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Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

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Condition of Applications Under Examination at Close of Business Oct. 16, 1953

Total number of patent applications awaiting action, 102,885. Date of oldest new application. December 17, 1952; date of oldest amended application, December 17, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry, Scattering Unloaders; Sewerage.	1-26-53	1-23-53	1319
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	1-27-53	1-16-53	1239
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	2-17-53	2-16-53	1910
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	1-29-53	1-28-53	1511
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-30-53	2-9-53	993
6. SURLE, H., Carbon Chemistry (part)	12-19-52	12-23-52	2838
7. GONSALVES, J. E., Optics; Photography (part)	1-26-53	1-26-53	1729
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	2-16-53	2-16-53	1523
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	1-30-53	2-2-53	1211
10. REYNOLDS, E. R. (NEFF, P. R., Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	2-24-53	2-20-53	1265
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	2-19-53	2-18-53	1192
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	1-24-53	1-21-53	1266
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	1-19-53	1-21-53	1238
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	2-11-53	2-9-53	1450
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	1-16-53	1-15-53	1682
16. LOVEWELL, N. N., Television; Telephony; Recorders	1-2-53	1-2-53	1783
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	1-27-53	1-26-53	1499
18. KURZ, J. A., Power Plants; Speed Responsive Devices	2-16-53	1-26-53	748
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-5-53	1-8-53	1109
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	2-16-53	2-11-53	1266
21. MADER, R. C., Textiles	1-29-53	1-23-53	1352
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	2-9-53	1-29-53	1029
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	1-22-53	1-21-53	1012
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machine; Textiles, Ironing or Smoothing	3-23-53	3-23-53	1104
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	1-6-53	1-2-53	1394
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	2-9-53	2-9-53	1996
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	2-3-53	2-2-53	1275
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	2-16-53	2-3-53	1147
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	1-21-53	1-23-53	1057
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	4-6-53	4-6-53	1419
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	1-19-53	1-6-53	2537
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	2-18-53	2-20-53	1341
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-16-53	1-14-53	1935
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	1-12-53	1-7-53	1279
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	2-27-53	2-16-53	1231
36. McFADYEN, A. D., Measuring and Testing	2-5-53	2-9-53	1097
37. LEVY, M. L., Electricity—Switches, Welding, Heating	2-16-53	2-17-53	1713
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	2-11-53	2-10-53	1565
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handing (part)	3-10-53	3-12-53	1580
40. DRUMMOND, E. J., Receptacles (part); Packages	5-1-53	5-4-53	900
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	2-12-53	2-12-53	1692

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application awaiting Office action	Oldest amended application awaiting Office action	Applications awaiting action
	New	Amended	
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	1-16-53	1-16-53	2209
43. KNIGHT, W. G. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	1-19-53	1-19-53	1891
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	2-2-53	2-2-53	1319
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	1-6-53	1-6-53	1191
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	1-29-53	2-3-53	1586
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	1-13-53	1-12-53	2260
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	2-2-53	1-30-53	1433
50. BENGEL, W. G., Synthetic Resins; Rubber	4-10-53	4-10-53	1760
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	2-9-53	2-6-53	1688
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	2-26-53	2-16-53	1960
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	2-24-53	2-24-53	1000
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	1-27-53	1-26-53	1891
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	2-17-53	2-2-53	1001
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	3-9-53	3-2-53	1323
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	2-16-53	2-6-53	1826
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	1-21-53	1-19-53	1387
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	2-4-53	1-28-53	1463
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	3-16-53	3-9-53	904
62. SHAPIRO, A., Games: Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	1-21-53	2-2-53	1831
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	1-12-53	1-9-53	2069
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	2-2-53	2-2-53	1734
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	2-2-53	2-11-53	820
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	2-16-53	2-10-53	1599
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-16-53	2-9-53	1545
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	2-2-53	2-2-53	1116
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-17-52	12-17-52	3653
DESIGNS: A—BREHM, G. L., Industrial Arts	5-18-53	6-4-53	1132
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	5-21-53	5-25-53	839

Number of new applications received week ending Sept. 25, 1953

PATENTS 1,355 DESIGNS 96 REISSUES 2 TOTAL 1,453

Total number of trade-mark applications awaiting action (including renewals and republications), 11,418.
Date of oldest new application, May 18, 1953; date of oldest amended application, May 13, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application awaiting Office action	Oldest amended application awaiting Office action	Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	5-19-53	5-19-53	2781
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	5-18-53	5-13-53	2929
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Republications (All Classes)	8-11-53	9-22-53	222
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	6-1-53	6-1-53	2545
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	5-27-53	5-13-53	2643

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE NEELY

No. 5976. Decided June 24, 1953

[205 F.2d 195; 98 USPQ 273]

PATENTABILITY — PARTICULAR SUBJECT MATTER — GARMENT BAG.

Certain claims directed to a garment bag *Held* properly rejected as non-inventive over the cited prior art.

APPEAL from Patent Office. Serial No. 60,490.

AFFIRMED.

Eugene E. Stevens, III, for appellant.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in finally rejecting claims 7, 8 and 9 of appellant's application, Serial No. 60,490, for a patent on a "Garment Envelope." All the appealed claims are article claims and no claims have been allowed in the application.

Appealed claim 8 reads as follows:

8. In a garment bag of the envelop [sic] type, an envelop portion closed at its top, bottom and sides, a slit opening in the front of said envelop portion extending in a straight line between its center top front downwardly to a point near its bottom side; said slit opening dividing the front of said envelop into two unequal parts so that more than half of the front of said envelop portion is covered at all times, and a zipper means for closing said slit opening at times; said envelop portion so constructed that in covering a hangered garment it is placed thereon by a single sidewise motion so that the garment passes in front of the smaller of the two parts of the front of said envelop portion and behind the larger of said two parts whereby it is substantially enclosed by this single motion and the remaining portion of the garment can be then enclosed by the smaller of said two parts of the front of the envelop portion.

Claims 7 and 9 are similar to this claim, claim 7 being broader and claim 9 containing two additional limitations. Claim 7 omits the claiming of the straight line with reference to the slit opening, the limitation as to more than half of the front portion being covered at all times and the fact that a zipper is the means used to close the slit opening. Claim 9 adds the limitation that substantially three-fourths of the front portion is covered at all times rather than at least half, and that the upper end of the slit opening is designed to embrace the hook shaft portion of a garment hanger.

The references relied on are: Kinsey, 1,320,869, November 4, 1919; Holbrook, 1,651,706, December 6, 1927; Pick (British), 437,876, November 6, 1935; Wilson-Haffenden (British), 440,673, January 3, 1936.

Appellant's alleged invention, as is apparent from the quoted claim, is a garment bag of the envelope type, closed on all sides, and provided with a diagonal slit opening in the front thereof, extending from the top center to a bottom side, with means for closing the opening, when desired.

The Kinsey patent discloses a garment bag of the envelope type, closed on all sides, provided with a vertical opening down the front that can be closed with snap fasteners. A wire frame is attached to the bag on the inside at the top and a hook portion of the frame extends upwardly through the vertical opening. Holbrook discloses a similar type of garment bag, with a grommet at the top of the opening through which the hook of a hanger can be inserted to suspend the bag. The British patent to Wilson-Haffenden is also for a garment bag of the envelope type which has a vertical opening down the front that can be closed with snap fasteners, but the bottom side of this bag is open. It is also possible to extend the hook portion of a hanger through the top of the vertical opening. Pick discloses, in his British patent, a travelling bag of the type that can be suspended in an upright position for removal or replacement of garments and, when traveling, can be folded double and carried in the manner of a suitcase. Pick discloses means to open his bag so that hangered garments can be placed therein when the bag is suspended in an upright position. This means is three openings, closed by zipper, one opening disposed horizontally across the top of the front of the bag, one vertically down a side of the front, and the third extending from the intersection of the first two diagonally down to the opposite front side.

The Examiner rejected claims 7 and 8 as unpatentable over either Kinsey or Holbrook in view of Pick. He was of the opinion that merely to extend the opening of either primary reference from the top center downwardly to a point near the bottom side would not produce any new or unobvious results or amount to invention. Also the Examiner pointed out that it was old in the art to employ diagonal slit openings in view of Pick, which patent was also relied on to show that it was common to use zippers

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The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $10.00 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

instead of snap fasteners to close slit openings. Claim 9 was rejected on Kinsey in view of Pick for the reasons given against claim 7. The limitation with respect to the slit embracing the hook shaft portion of a garment hanger was considered fully met by Kinsey. The Examiner also rejected claim 9 as unpatentable over the Wilson-Haffenden patent in view of Pick, applying the same reasons as used in regard to the Kinsey patent and adding that it would not be invention to close the bottom of the Wilson-Haffenden bag.

In Affirming the Examiner the Board of Appeals admitted that there was a difference between the bag set out in appellant's claims and those shown in the prior art. The Board acknowledged this difference in the following words:

> It is evident in considering the requirements of the appealed claims that none of the references discloses a garment bag having a diagonal slit opening extending from its top center to a point "near its bottomside." • • •
>
> While appellant's disposition of the bag opening is slightly different from that disclosed in the references, we are of the opinion that the arrangement is not productive of results sufficiently distinctive or unobvious to warrant a conclusion that invention was called upon in its design.

Then after discussing the references the Board stated:

> We agree with the Examiner that modification of the vertical openings of the other references to define a diagonally disposed opening does not call upon the exercise of invention in view of what is taught by Pick.

Appellant argues that his garment bag with the diagonal opening is productive of two new and unobvious results, first: that a garment on its hanger can be substantially encased in the envelope by a single sidewise motion and second: that the garment and envelope can be hung up as a unit with a portion of the garment exposed. It is appellant's contention that none of the references even remotely suggest these allegedly new results. However, the Kinsey patent states as one of its objects:

> Another object is to provide a device of this character • • • having means for conveniently suspending the garments, while completely covered, • • • whereupon the covering means may be readily withdrawn on either or both sides to disclose and permit the withdrawal of part or all of the contents of the same.

And it would seem obvious that if one side can be withdrawn to expose the contents of the bag it could also be withdrawn to allow a garment to be slipped into the bag in a single sidewise motion.

In making his argument for new and unobvious results appellant lays great stress on the statement of the Board that his garment bag and zipper arrangement does not produce results "sufficiently distinctive or unobvious to warrant a conclusion that invention was called upon in its design." From this appellant reasons that the Board found distinctive and unobvious results in the claimed structure and therefore, the claims should be allowed, citing *In re Dann*, 18 CCPA (Patents) 1031, 47 F.2d 356, 8 USPQ 367. However in the Dann case this court stated at page 1035:

> The combination was not obvious to one skilled in the art and, in our opinion, *involved invention*. [Emphasis added.]

while, in the appealed claims, the Board distinctly said that it was their opinion that no invention was involved. Moreover, we are not convinced that appellant's structure is productive of any new or unobvious results. As we have pointed out above it would be possible to slip a garment into the bag of Kinsey with a single sidewise motion, and in so doing at least half of the garment would be encased in the envelope. To encase more than half of the garment by moving the opening as was done by appellant does not, in our opinion, produce an unobvious result.

Appellant also argues that it is improper to combine the references as was done by the Examiner and the Board since no single reference discloses his claimed structure, nor does any combination disclose the actual diagonal opening as required by the claims. However, we have stated as recently as *In re Bisley*, 39 CCPA (Patents) 982, 197 F.2d 355, 94 USPQ 80, at page 991:

> It is well settled that claims may be properly rejected on a combination of several patents taking specific features from each. It is not necessary that a complete disclosure be contained in a single reference. • • • Moreover, a claim may sometimes be properly rejected on a combination of references even though that combination does not show all limitations in the claim, *providing* such limitations as are not shown are not inventive and patentable over the disclosures of the prior art. [Emphasis by court.]

We can agree with appellant that the appealed claims disclose a novel and useful garment bag. But novelty and usefulness alone are not sufficient to support the allowance of appealed claims. To be allowable there must also be inventive subject matter in the claims. *In re Lindberg*, 39 CCPA (Patents) 866, 194 F.2d 732, 93 USPQ 23; *In re Levin*, 37 CCPA (Patents) 791, 178 F.2d 945, 84 USPQ 232. And, it is our opinion, that no invention is involved in the claimed subject matter.

Appellant also makes mention in his brief of commercial success of his alleged invention and states that it is not a mere paper invention. No evidence was offered to prove the allegation of commercial success beyond a reference to an advertising circular which was part of the record. However, even if appellant had proved the commercial success of his article it would not be a sufficient reason to allow the claims here on appeal. The fact of commercial success can only be a factor when there is doubt as to whether an invention is disclosed in the appealed claims. *In re Miller*, 39 CCPA (Patents) 824, 194 F.2d 106, 92 USPQ 328; *In re Russell*, 34 CCPA (Patents) 721, 157 F.2d 190, 71 USPQ 85. As we have pointed out before we have no doubt as to the lack of inventive matter disclosed in the appealed claims.

For the reasons hereinbefore stated the decision appealed from is affirmed.

AFFIRMED.

JACKSON, J., retired, recalled to participate herein in place of GARRETT, C. J.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Cough syrup. Serial No. 646,714, Nov. 3. Class 18.

Acme Aluminum Alloys, Inc., Dayton, Ohio. Metallic products. Serial No. 614,679, Nov. 3. Class 14.

Ada Milling Company, Ada, Okla. Poultry feed. Serial No. 581,513, Nov. 3. Class 46.

Adanta Novelties Corp., New York, N. Y. Dolls. Serial No. 651,490, Nov. 3. Class 22.

Aktiebolaget Multi-Divi, Vikarbyn, Sweden. Bound books. Serial No. 635,802, Nov. 3. Class 38.

Allied Chemical & Dye Corporation, New York, N. Y. Synthetic thread filaments and synthetic yarn. Serial No. 635,080, Nov. 3. Class 43.

Allied Laboratories, Inc., Kansas City, Mo. Therapeutic composition. Serial No. 646,915, Nov. 3. Class 18.

American Brake Shoe Company, New York, N. Y. Bare and coated welding rods. Serial No. 632,498, Nov. 3. Class 14.

American Cyanamid Company, New York, N. Y. Flocculating and filtering reagent. Serial No. 640,249, Nov. 3 Class 6.

American Cyanamid Company, New York, N. Y. Antibiotic. Serial No. 646,916, Nov. 3. Class 18.

American Hardware Corporation, The, New Britain, Conn Locks. Serial No. 648,523, Nov. 3. Class 25.

American Manufacturing Concern, Falconer, N. Y. Bedroom furniture. Serial Nos. 643,263–4, Nov. 3. Class 32.

American Vermiculite Company, Inc., Spruce Pine, N. C. Vermiculite and perlite. Serial No. 642,727, Nov. 3 Class 1.

American Wire Fabrics Corporation, New York, N. Y. Screen wire-cloth. Serial No. 646,254, Nov. 3. Class 13.

Armor-Tuf Laboratories, Inc., New York, N. Y. Compound for hardening and alloying steel. Serial No. 635,115, Nov. 3. Class 6.

Armstrong Cork Company, Lancaster, Pa. Flexible plastic wall covering. Serial No. 634,436, Nov. 3. Class 20

Atalanta Trading Corporation, New York, N. Y. Canned ham. Serial Nos. 640,998–9, Nov. 3. Class 46.

Aurora Equipment Company, doing business as Equipto, Aurora, Ill. Metal drawer cabinets. Serial No. 645,615, Nov. 3. Class 32.

B-Z-B Honey Company: *See*— Schumacher, H. H.

Bauer Alphabets Inc., New York, N. Y. Printing type. Serial No. 643,753, Nov. 3. Class 14.

Baxter Laboratories, Inc., Morton Grove, Ill. Isotonic solution of sodium chloride for parenteral injection. Serial No. 631,041, Nov. 3. Class 18.

Beauty Counselors, Inc., Grosse Pointe, Mich. Shampoos and toilet soaps. Serial No. 636,058, Nov. 3. Class 52.

Begman, Lee, Inc., New York, N. Y. Ladies' gloves. Serial Nos. 645,626–7, Nov. 3. Class 39.

Bel-Art Products: *See*— Landsberger, Kurt.

Bellsle's Pin-Whiz Co., Wichita, Kans. Bobby pin dispenser. Serial No. 645,859, Nov. 3. Class 40.

Benray Manufacturing Company, Detroit, Mich. Artificial flowers. Serial No. 636,197, Nov. 3. Class 50.

Berghoff Brewing Corporation, Fort Wayne, Ind. Beer. Serial No. 646,981, Nov. 3. Class 48.

Berry Seed Company, Clarinda, Iowa. Alfalfa seed. Serial No. 645,948, Nov. 3. Class 1.

Bo-Mar Products, Inc., Union City, N. J. Fruit-flavored, non-alcoholic maltless syrups, concentrates and extracts. Serial No. 609,390, Nov. 3. Class 45.

Brandwein, A., & Company, Chicago, Ill. Mattresses. Serial No. 600,322, Nov. 3. Class 32.

Braun, Harold P., doing business as Brownie Company, Grand Rapids, Mich. Envelopes. Serial No. 645,949, Nov. 3. Class 37.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin preparation. Serial No. 630,574, Nov. 3. Class 18.

Bronze Ego Publishers, Inc., Chicago, Ill. Magazine. Serial No. 644,827, Nov. 3. Class 38.

Brown, C. H., doing business as C. H. Brown and Company, Honolulu, Hawaii. Aftershave lotion. Serial No. 638,183, Nov. 3. Class 51.

Brown, C. H., and Company: *See*— Brown, C. H.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigars, cigarettes, smoking tobacco, etc. Serial No. 642,799, Nov. 3. Class 17.

Brownie Company: *See*— Braun, Harold P.

Bruin Industries, Colorado Springs, Colo. Moisture indicators. Serial No. 645,101, Nov. 3. Class 26.

Burke, Charles I., doing business under the assumed name Burke Flexo-Products Company, Traverse City, Mich. Artificial fish lures. Serial No. 632,464, Nov. 3. Class 22.

Burke Flexo-Products Company: *See*— Burke, Charles I.

Byk-Gulden Lomberg Chemische Fabrik G. m. b. H., Constance, Germany. Medications, chemical products, etc. Serial No. 641,259, Nov. 3. Class 18.

Cahill, William D., Chicago, Ill. Colored translucent plastic Christmas tree ornaments. Serial No. 644,099, Nov. 3. Class 50.

California Wine Association, San Francisco, Calif. Brandy. Serial No. 644,663, Nov. 3. Class 49.

Callison Wholesale Liquor Company, East St. Louis, Ill. Whiskey. Serial No. 634,429, Nov. 3. Class 49.

Calumet and Hecla, Inc., Calumet, Mich. Drill bits. Serial No. 644,391, Nov. 3. Class 23.

Caram Manufacturing Company, Monrovia, Calif. Solvents and diluents for adhesives and cements. Serial No. 645,544, Nov. 3. Class 6.

Cecilware-Commodore Products Corp., New York, N. Y. Tea and coffee urns. Serial No. 646,270, Nov. 3. Class 13.

Chase Chemical Company, Newark, N. J. Multivitamin preparation. Serial No. 642,265, Nov. 3. Class 18.

Chemical Industries, Incorporated, New York, N. Y. Preparation for the treatment of athlete's foot. Serial No. 647,063, Nov. 3. Class 18.

Chocolate Products Company, Chicago, Ill. Nonalcoholic, noncereal, maltless beverages, etc. Serial No. 625,715, Nov 3. Class 45.

Clarelen Orchid Co., Inc., Fox Bluff, Madison, Wis. Orchids. Serial No. 645,870, Nov. 3. Class 1.

Claridge Equipment Company, Chicago, Ill. Reversible chalk and display board. Serial No. 643,651, Nov. 3. Class 50.

Clark, D. L., Company, The, Pittsburgh, Pa. Mint candy. Serial No. 603,573, Nov. 3. Class 46.

Colvin, Mendenhall & Co., San Francisco, Calif. Investment advisory service. Serial No. 590,073, Nov. 3. Class 100.

Compressed Products Corporation, assignee: *See*— Delicat, Inc.

Congoleum-Nairn, Inc., assignee: *See*— Sloane-Blabon Corporation.

Cook Electric Company, Chicago, Ill. Electric terminals. Serial No. 630,313, Nov. 3. Class 21.

Cornell Paperboard Products Co., Milwaukee, Wis. One-piece paperboard garment box. Serial No. 645,698, Nov. 3. Class 2.

Crease and Cook Company, Danvers, Mass. Calfskin leather. Serial No. 644,289, Nov. 3. Class 1.

Crescent Valve Company, El Monte, Calif. Solenoid controlled valve units. Serial No. 635,407, Nov. 3. Class 21.

Crosley Broadcasting Corporation, Cincinnati, Ohio. Radio program broadcasting. Serial No. 627,557, Nov. 3. Class 104.

Cutler, Jess & C. A., Inc., Columbus, Ga. Live chinchillas and chinchilla pelts. Serial No. 646,534, Nov. 3. Class 1.

Darlene Juniors, Incorporated, Decatur, Ill. Women's and girls' dresses. Serial No. 645,551, Nov. 3. Class 39.

David, Roger H., St. Paul, Minn. Mirror for use in practicing golf swing. Serial No. 606,599, Nov. 3. Class 22.

Delicat, Inc., New York, N. Y., assignor to Compressed Products Corporation. Sanitary napkins. Serial No. 623,595, Nov. 3. Class 44.

Delmark Mfg. Co. Inc., New York, N. Y. Medicinal preparation. Serial No. 613,503, Nov. 3. Class 18.

Denis-Marcus, Inc., New York, N. Y. Textile fabrics. Serial No. 647,837, Nov. 3. Class 42.

De Soto Paint & Varnish Co., Memphis, Tenn. Varnishes. Serial No. 605,646, Nov. 3. Class 16.

Diamond Saw Works, Inc., Buffalo, N. Y. Metal cutting saw blades. Serial No. 645,471, Nov. 3. Class 23.

Dictaphone Corporation, Bridgeport, Conn. Calibrated indicator slip pads for use with dictating machines. Serial No. 635,417, Nov. 3. Class 26.

Dietzgen, Eugene, Co., Chicago, Ill. Calculating devices. Serial No. 645,700, Nov. 3. Class 26.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette chairs. Serial No. 642,738, Nov. 3. Class 32.

Droste's Cacao- en Chocoladefabrieken, N. V., Haarlem, Netherlands. Edible chocolate. Serial No. 619,992, Nov. 3. Class 46.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dye reducing agents, and color stripping agents. Serial No. 645,638, Nov. 3. Class 6.

Dyer, Robert G., Philadelphia, Pa. Clips to be attached to golf bags for holding cigars, cigarettes, etc. Serial No. 642,746, Nov. 3. Class 8.

Eagle-Flagg Tanning Corporation, New York, N. Y. Leather. Serial No. 646,372, Nov. 3. Class 1.

Educational Cards, Inc., Detroit, Mich. Educational card game. Serial No. 635,589, Nov. 3. Class 22.

Edwards-Freeman, Inc., Philadelphia, Pa. Dried fruits and evaporated fruits. Serial No. 640,024, Nov. 3. Class 46.

Eeze Products, Inc., Brockline, Mass. Eyebrow cream. Serial No. 629,192, Nov. 3. Class 51.

Ellicott Machine Corporation, Baltimore, Md. Dredges and parts thereof. Serial No. 646,466, Nov. 3. Class 23.

Ellicott Machine Corporation, Baltimore, Md. Hydraulic dredges and parts thereof. Serial No. 646,467, Nov. 3. Class 23.

Elox Corporation of Michigan, Clawson, Mich. Electrical disintegrating machines. Serial No. 636,072, Nov. 3. Class 21.

Empire Brushes, Inc., Port Chester, N. Y. Hair brushes, nail brushes, clothes brushes, etc. Serial No. 640,731, Nov. 3. Class 29.

Equipto: *See*—
Aurora Equipment Company.

Erwin Mills, Inc., Durham, N. C. Bed sheets and pillow cases. Serial No. 644,022, Nov. 3. Class 42.

Factor, Max, & Co., Hollywood, Calif. Cosmetics. Serial No. 605,963, Nov. 3. Class 51.

Farm Bureau Mutual Automobile Insurance Company, Columbus, Ohio. Insurance company house organ. Serial No. 598,580, Nov. 3. Class 38.

Fear, Fred, & Co., Brooklyn, N. Y. Flavored syrups used in the preparation of non-alcoholic maltless soft drinks. Serial No. 629,936, Nov. 3. Class 45.

Ferber Company, The, Hackensack, N. J. Industrial construction services. Serial No. 648,987, Nov. 3. Class 103.

Fleischer, L., & Sons, Cincinnati, Ohio. Thread. Serial No. 636,354, Nov. 3. Class 43.

Flexcel Container Company, Kansas City, Mo. Plastic bottles. Serial Nos. 628,755, Nov. 3. Class 2.

Flexidraw Company, Dearborn, Mich. Rust proofing compounds. Serial No. 623,455, Nov. 3. Class 6.

Florida Fashions, Inc., Orlando, Fla. Ladies' and children's dresses and coats. Serial No. 644,499, Nov. 3. Class 39.

Foreston Coal Co., Inc., New York, N. Y. Coal. Serial No. 627,059, Nov. 3. Class 1.

Fort Howard Paper Company, Green Bay, Wis. Paper napkins. Serial No. 645,704, Nov. 3. Class 37.

Franke, August L., doing business under the name Q-W Laboratories, Plainfield, N. J. Face cloths. Serial No. 639,696, Nov. 3. Class 42.

Fratelli, Rossi, Asiago, Italy. Liquors. Serial No. 595,095, Nov. 3. Class 49.

Fuld Brothers, Inc., Baltimore, Md. Insecticides, household and industrial germicides, fungicides, etc. Serial No. 604,088, Nov. 3. Class 6.

Fuller, D. B., & Co. Inc., New York, N. Y. Textile fabrics. Serial No. 646,611, Nov. 3. Class 42.

G & G Company, Perkiomenville, Pa. Insulated bait box. Serial No. 637,308, Nov. 3. Class 22.

Galvanic Products Corporation, Valley Stream, N. Y. Electrically operated cigarette lighters. Serial No. 632,561, Nov. 3. Class 8.

Garrett Corporation, The, Los Angeles, Calif. Monthly publication. Serial No. 646,752, Nov. 3. Class 38.

Geigy Company, Inc., New York, N. Y. Dyes and dyestuffs. Serial No. 646,663, Nov. 3. Class 6.

General Foods Corporation, New York, N. Y. Cocoa mix. Serial No. 641,039, Nov. 3. Class 46.

General Motors Corporation, Detroit, Mich. Fluid for hydraulic brakes, shock absorbers and the like. Serial No. 629,198, Nov. 3. Class 6.

Globe-Union Inc., Milwaukee, Wis. Unit comprising a variable resistance and a printed electronic circuit network. Serial No. 646,759, Nov. 3. Class 21.

Goldsmith Bros., New York, N. Y. Partially printed pin-tickets. Serial No. 639,223, Nov. 3. Class 37.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Transparent and opaque resinous plastic material. Serial No. 582,293, Nov. 3. Class 1.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Candy. Serial No. 641,448, Nov. 3. Class 46.

Green Thumb Products, Toledo, Ohio. Wheelbarrows and lawn carts. Serial No. 635,965, Nov. 3. Class 19.

Grossman, Ralph E., doing business as Picture Craft Company, Decatur, Ill. Artist's painting kits. Serial No. 623,882, Nov. 3. Class 50.

Guardian Chemical Corporation, Long Island City, N. Y. Remedy for athlete's foot. Serial No. 647,350, Nov. 3. Class 18.

Gummed Products Company, The, Troy, Ohio. Heat seal papers. Serial Nos. 643,420–1, Nov. 3. Class 37.

Handmacher-Vogel, Inc., New York, N. Y. Conducting golf tournaments. Serial No. 596,225, Nov. 3. Class 107.

Hex Foods, Inc., Kansas City, Mo. Chili. Serial No. 601,147, Nov. 3. Class 46.

Heyden Chemical Corporation, New York, N. Y. Various antibiotic preparations. Serial No. 612,740, Nov. 3. Class 18.

Higgins, Fred H., Casper, Wyo. Slide rule. Serial No. 622,936, Nov. 3. Class 26.

Hines-Park Foods, Inc., Ithaca, N. Y. Grape juice. Serial No. 644,116, Nov. 3. Class 45.

Hormo-Pharma Limited, London, England. Tonic medicine. Serial No. 642,223, Nov. 3. Class 18.

Ilon Chemische Industrie G. m. b. H., Freiburg-Littenweiler/Br. Germany. Chemical and pharmaceutical preparations. Serial No. 645,043, Nov. 3. Class 18.

Ilsco Copper Tube & Products, Inc., Cincinnati, Ohio. Electrical terminal blocks. Serial No. 636,983, Nov. 3. Class 21.

Instituut voor Marktverkenning: *See*—
Nederlands Instituut voor de Publieke Opinie.

International Cellucotton Products Company, Chicago, Ill. Paper table napkins. Serial No. 645,712, Nov. 3. Class 37.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 644,309, Nov. 3. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 644,418, Nov. 3. Class 46.

International Paint Company, Inc., New York, N. Y. Ready mixed paints and enamels. Serial No. 645,650, Nov. 3. Class 16.

Interstate Folding Box Company, The, Middletown, Ohio. Collapsible paperboard bottle carriers. Serial No. 636,016, Nov. 3. Class 2.

Ionia Manufacturing Company, Ionia, Mich. Components of refrigerator cabinets. Serial No. 595,961, Nov. 3. Class 31.

Irwin, Neisler & Company, Decatur, Ill. Medicinal tablets. Serial No. 646,873, Nov. 3. Class 18.

Jay Dee Products Co., Inc., Brooklyn, N. Y. Drinking straws. Serial No. 645,895, Nov. 3. Class 50.

Jerclaydon, Inc., Miami Beach, Fla. Fibre brushes. Serial No. 628,002, Nov. 3. Class 29.

Junior Readers Guild, Inc., New York, N. Y. Magazines. Serial No. 646,672, Nov. 3. Class 38.

Kahn, David, Inc., North Bergen, N. J. Writing instruments. Serial No. 643,687, Nov. 3. Class 37.

Kantor-Barber, New York, N. Y. Ladies' coats and suits. Serial Nos. 646,137–8, Nov. 3. Class 39.

Karchmar Company, Inc., New York, N. Y. Women's and girls' hosiery. Serial No. 610,077, Nov. 3. Class 39.

Karpen, Jack S., Inc., New York, N. Y. Chairs. Serial No. 646,291, Nov. 3. Class 32.

Kay Electric Company, Pine Brook, N. J. Instrument for electronically measuring or sensing variations in speed. Serial No. 627,950, Nov. 3. Class 26.

Kaymet Company, The, London, England. Serving wagons and carts. Serial No. 629,207, Nov. 3. Class 32.

Kentucky River Distillery, Incorporated, Nicholasville, Ky. Bourbon whisky. Serial No. 622,830, Nov. 3. Class 49.

Keystone Brass Works, Inc., Erie, Pa. Plastic dishes. Serial No. 634,257, Nov. 3. Class 2.

Kingly Food Products, Inc., Chicago, Ill. Vegetable fat product. Serial No. 602,901, Nov. 3. Class 46.

Klenzade Products, Incorporated, Beloit, Wis. Liquid sanitizer. Serial No. 626,384, Nov. 3. Class 6.

Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also doing business under the name "Koh-I-Noor United Metal Ware Factories, National Corporation," Prague Czechoslovakia. Closures and fasteners, crochet hooks and crochet needles, etc. Serial No. 613,816, Nov. 3. Class 40.

"Koh-I-Noor United Metal Ware Factories, National Corporation": *See*—
Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik.

Kohler Co., Kohler, Wis. Electric generating plants. Serial No. 634,090, Nov. 3. Class 21.

Krey Packing Company, St. Louis, Mo. Unitary package containing a pie crust mix and canned beef and vegetables and both used in the making of beef pies. Serial No. 629,372, Nov. 3. Class 46.

Kroehler Mfg. Co., Naperville, Ill. Upholstered sofas and upholstered chairs. Serial No. 616,797, Nov. 3. Class 32.

Krueger, Richard G., Inc., New York, N. Y. Babies' teethers. Serial No. 642,358, Nov. 3. Class 44.

La France Industries, Inc., Wilmington, Del., and New York, N. Y. Textile fabrics. Serial No. 647,078, Nov. 3. Class 42.

Landsberger, Kurt, doing business under the name of Bel-Art Products, Union City, N. J. Polyethylene tubing. Serial No. 642,977, Nov. 3. Class 1.

Leaf Brands, Inc., Chicago, Ill. Chewing gum. Serial No. 645,995, Nov. 3. Class 46.

Leeds Ltd. Coats, Inc., New York, N. Y. Woolen and worsted fabrics. Serial No. 647,700, Nov. 3. Class 42.

Leigh Foods, Inc., New York, N. Y. Fresh frozen orange juice concentrate, fresh frozen grapefruit juice concentrate, frozen coffee, etc. Serial Nos. 633,547–8, Nov. 3. Class 46.

Leininger, Clara, Maumee, Ohio. Breads. Serial No. 630,138, Nov. 3. Class 46.

Libbey-Owens-Ford Glass Company, Toledo, Ohio. Coated glass fibers, filaments, and strands. Serial Nos. 645,905–6, Nov. 3. Class 1.

Los Angeles Period Furniture Manufacturing Company, Los Angeles, Calif. Bedroom furniture. Serial No. 646,294, Nov. 3. Class 32.

Lowenstein, M., & Sons, Inc., New York, N. Y. Cotton and/or rayon piece goods and/or combinations thereof. Serial No. 636,646, Nov. 3. Class 42.

M. K. M. Hosiery Mills, Inc., Boston and Jamaica Plain, Boston, Mass. Ladies' hosiery. Serial No. 644,674, Nov. 3. Class 39.

MacDonald, Greenlees Limited, Leith, Edinburgh, Scotland. Scotch whisky. Serial No. 633,312, Nov. 3. Class 49.

Maggio Bros. Co., Los Angeles, Calif. Fresh carrots. Serial No. 634,102, Nov. 3. Class 46.

Mal-Boc Pipeline Construction Company, Linden, N. J. Spraying plastic coatings on pipe. Serial No. 647,209, Nov. 3. Class 103.

Mallinckrodt Chemical Works, St. Louis, Mo. Rare earth oxide compositions. Serial No. 646,562, Nov. 3. Class 6.

Manhattan Kreole Prod. Inc., doing business as Sani-Seal Labs., New York and Brooklyn, N. Y. Liquid bubble solution used by children to blow bubbles. Serial No. 650,910, Nov. 3. Class 22.

Manhattan Undergarment Co. Inc., New York, N. Y. Ladies' underwear. Serial No. 644,180, Nov. 3. Class 39.

Manville, Ernest O., Inc., New York, N. Y. Note paper and correspondence envelopes. Serial No. 640,164, Nov. 3. Class 37.

Marie-Designer, Inc., Hollywood, Calif. Chairs. Serial No. 644,428, Nov. 3. Class 32.

Marques de Elorza: *See*—
Old Empire Manufacturing Chemists, Inc.

Martin Brothers Company, Minneapolis, Minn. Ladies' coats. Serial No. 617,452, Nov. 3. Class 39.

Martin Fabrics Corporation, New York, N. Y. Velvet and pile fabrics. Serial No. 647,858, Nov. 3. Class 42.

Mary Jo's Products, Inc., Atlanta, Ga. Oat flour mix. Serial No. 635,272, Nov. 3. Class 46.

Maryland Paper Products Co., Baltimore, Md. Drinking straws. Serial No. 644,043, Nov. 3. Class 50.

Mead Johnson & Company, Evansville, Ind. Pharmaceutical preparation. Serial No. 644,919, Nov. 3. Class 18.

Merand, A., & Cie, Maison. Epernay, France. Champagne wine. Serial No. 625,610, Nov. 3. Class 47.

Metalwash Machinery Company, Elizabeth, N. J. Perchlorethylene for use as a degreasing agent. Serial No. 637,283, Nov. 3. Class 52.

Miller, N. S., doing business under the trade name Peninsular Foods, Jacksonville, Fla. Frozen shrimp, frozen oysters, frozen scallops, etc. Serial No. 644,048, Nov. 3. Class 46.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Liquid pavement-marking compound. Serial No. 646,622, Nov. 3. Class 16.

Moench, R. G., & Co., Inc., New York, N. Y. Specially processed chocolate crystals. Serial No. 645,912, Nov. 3. Class 46.

Mosler Safe Company, The, Hamilton, Ohio. Locks. Serial No. 648,772, Nov. 3. Class 25.

Motor Products Corporation, Detroit, Mich., and North Chicago, Ill. Automatic defrosting refrigerator and automatic defrosting system. Serial No. 644,053, Nov. 3. Class 31.

Murray, Michael F., Eugene, Oreg. Fishing plug. Serial No. 635,608, Nov. 3. Class 22.

Mutual Citrus Products Company, Anaheim, Calif. Pectin compositions, spray dried citric acid preparations, and citrus fruit juices. Serial No. 635,548, Nov. 3. Class 46.

Nance Company, The: *See*—
Nance, John S.

Nance, John S., doing business under the firm name of The Nance Company, Charlotte, N. C. Preparation for the relief of colds. Serial No. 637,389, Nov. 3. Class 18.

National Lead Company, Sayreville, N. J., and New York, N. Y. Diatomaceous materials. Serial No. 646,304, Nov. 3. Class 1.

Nederlands Instituut voor de Publieke Opinie, also trading under the style of Instituut voor Marktverkenning, Amsterdam, Netherlands. Books, booklets, leaflets, etc. Serial No. 643,113, Nov. 3. Class 38.

Nestle-Lemur Company, The, New York, N. Y. Hair rinses. Serial No. 645,659, Nov. 3. Class 51.

New Jersey Charcoal Co., Irvington, N. J. Charcoal. Serial No. 644,186, Nov. 3. Class 1.

Norcross, Inc., New York, N. Y. Greeting cards and printed greeting folders. Serial No. 646,569, Nov. 3. Class 38.

Norden Laboratories, Lincoln, Nebr. House organ. Serial No. 644,779, Nov. 3. Class 38.

Old Empire Manufacturing Chemists, Inc., doing business as Marques de Elorza, Newark, N. J. Perfumes, toilet water, eau de cologne, etc. Serial No. 631,759, Nov. 3. Class 51.

Oliger, J. C., Seed Company, Akron, Ohio. Wild bird seeds. Serial No. 646,159, Nov. 3. Class 46.

Organon Inc., Orange, N. J. Protein material of plant origin for use in pharmaceutical preparations. Serial No. 646,800, Nov. 3. Class 18.

Packard Motor Car Company, Detroit, Mich. Vehicles. Serial No. 639,770, Nov. 3. Class 19.

Parke, Davis & Company, Detroit, Mich. Soft chewing tablets especially adapted for pediatric use. Serial No. 639,714, Nov. 3. Class 18.

Patterson-Sanders Company, assignor to Patterson-Sanders Company, Tulsa, Okla. Gasoline powered three wheel vehicle. Serial No. 613,604, Nov. 3. Class 19.

Peerless Steel Equipment Company, Philadelphia, Pa. Steel office furniture. Serial No. 642,989, Nov. 3. Class 32.

Peninsular Foods: *See*—
Miller, N. S.

Permutit Company, The, New York, N. Y. Drafting, designing, and supplying specifications and instructions for use in the construction of filter underdrain systems. Serial No. 621,026, Nov. 3. Class 100.

Pettfish Company: *See*—
Townsend, Albert L.

Picture Craft Company: *See*—
Grossman, Ralph E.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour, enriched wheat flour, self-rising wheat flour, etc. Serial No. 595,153, Nov. 3. Class 46.

Porter and Brown Manufacturing Company, Salt Lake City, Utah. Water conditioning device. Serial No. 636,029, Nov. 3. Class 13.

Presto Lighters Limited, Montreal, Quebec, Canada. Pocket and table cigarette lighters. Serial No. 629,913, Nov. 3. Class 8.

Preston Laboratories, Inc., Chicago, Ill. Vitamin containing dietary supplement. Serial No. 631,631, Nov. 3. Class 18.

Process Laboratories, Inc., New York, N. Y. Dermatological ointment. Serial No. 644,452, Nov. 3. Class 18.

Protectall Safe Corp., Syracuse, N. Y. Fire resistant safes. Serial No. 643,369, Nov. 3. Class 25.

Q-W Laboratories: *See*—
Franke, August L.

Reed Roller Bit Company, Houston, Tex. Drill bits. Serial No. 646,016, Nov. 3. Class 23.

Rel Plastics Corporation, East Paterson, N. J. Sunglasses. Serial Nos. 645,731–2, Nov. 3. Class 26.

Richardson, Thos D., Co., Philadelphia, Pa. Candy. Serial No. 614,570, Nov. 3. Class 46.

Rilling-Dermetics Company, New York, N. Y. Filled compacts. Serial No. 642,167, Nov. 3. Class 51.

Rockline Mfg. Co. Inc., Brooklyn, N. Y. Snack tables, hanging shelves, and serving carts. Serial No. 636,943, Nov. 3. Class 32.

Rodon Corporation, Rocky River, Ohio. Garment hangers. Serial No. 642,839, Nov. 3. Class 50.

Ross & Rowe, Inc., New York, N. Y. Lecithin. Serial No. 630,799, Nov. 3. Class 6.

St. Louis Independent Packing Company: *See*—
Swift & Company.

St. Louis Paint Manufacturing Company, doing business as Shurway Paint Mfg. Co., St. Louis, Mo. Four-hour paint enamel, house paint, floor enamel, etc. Serial No. 646,320, Nov. 3. Class 16.

Sani-Seal Labs.: *See*—
Manhattan Kreole Prod. Inc.

Schlein, Samuel E., Inc., doing business under the name Westbrooke Clothes, New York, N. Y. Men's and young men's outer wearing apparel. Serial No. 643,979, Nov. 3. Class 39.

Schumacher, H. H., doing business as B-Z-B Honey Company, Alhambra, Calif. Periodical column or feature. Serial No. 645,076, Nov. 3. Class 38.

Sherman Paper Products Corporation, Newton, Mass. Corrugated paper. Serial No. 643,508, Nov. 3. Class 37.

Shurway Paint Mfg. Co.: *See*—
St. Louis Paint Manufacturing Company.

Skiatron Electronics & Television Corporation, New York, N. Y. Cathode ray tubes and television broadcasting and receiving equipment. Serial No. 629,825, Nov. 3. Class 21.

Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa., assignor to Congoleum-Nairn, Inc., Kearny, N. J. Hard surface linoleum floor covering. Serial No. 645,761, Nov. 3. Class 20.

Smith, Carroll Dunham, Pharmacal Company, New Brunswick, N. J. Liquid preparation used for local application in the treatment of skin conditions. Serial No. 619,111, Nov. 3. Class 18.

Smith, F. Marshall, Reading, Pa. Fertilizer. Serial No. 634,867, Nov. 3. Class 10.

Smith, Kline & French Laboratories, Philadelphia, Pa. Analgesic preparation. Serial No. 647,105, Nov. 3. Class 18.

Solar Steel Corporation, Cleveland, Ohio. Carbon and alloy steels. Serial No. 628,369, Nov. 3. Class 14.

Solar Varnish Corporation, Linden, N. J. Oil base paints and synthetic paints and enamels. Serial No. 628,172, Nov. 3. Class 16.

Sponge Rubber Products Company, The, Shelton, Conn. Artificial respiration collars. Serial No. 627,649, Nov. 3. Class 44.

Staley, A. E., Manufacturing Company, Decatur, Ill. Starch for industrial use. Serial No. 628,655, Nov. 3. Class 6.

Standard Envelope Mfg. Co., The, Cleveland, Ohio. Merchandise envelopes, bags, and cartons. Serial No. 641,097, Nov. 3. Class 2.

Standard Wire and Cable Company, Los Angeles, Calif. Plastic insulated wire for electrical use. Serial No. 640,362, Nov. 3. Class 21.

Standard Wire and Cable Company, Los Angeles, Calif. Neoprene covered portable cable for electrical use. Serial No. 640,363, Nov. 3. Class 21.

Standard Wire and Cable Company, Los Angeles, Calif. Portable rubber covered electrical cable. Serial No. 640,364, Nov. 3. Class 21.

Steen, John A., Varnish Co., Chicago, Ill. Paint, varnish, enamel, etc. Serial No. 639,906, Nov. 3. Class 16.
Stein, Hall & Company, Inc., New York, N. Y. Tapioca flour for further manufacture in the industrial arts. Serial No. 643,439, Nov. 3. Class 1.
Steiner-Lobman Dry Goods Company, Montgomery, Ala. Overalls, work pants, coveralls, etc. Serial No. 643,878, Nov. 3. Class 39.
Sterling Drug Inc., New York, N. Y. Dyestuffs. Serial No. 646,630, Nov. 3. Class 6.
Stern's Nurseries, Inc., Geneva, N. Y. Hibiscus plants. Serial No. 645,739, Nov. 3. Class 1.
Stern's Nurseries, Inc., Geneva, N. Y. Crab apple trees. Serial No. 646,021, Nov. 3. Class 1.
Stevens, E. S., Co., Beatrice, Nebr. Olives, jellies, jams, etc. Serial No. 645,928, Nov. 3. Class 46.
Strouse, Adler Company, The, New Haven, Conn. Foundation garments. Serial No. 644,576, Nov. 3. Class 39.
Swift & Company, Chicago, Ill. Lard. Serial No. 632,804, Nov. 3. Class 46.
Swift & Company, doing business as St. Louis Independent Packing Company, Chicago, Ill., and St. Louis, Mo. Bacon. Serial No. 644,646, Nov. 3. Class 46.
Textileather Corporation, Toledo, Ohio. Coated fabrics and resinous sheet material. Serial No. 638,982, Nov. 3. Class 50.
Tigges, Eberhard, doing business as Tigges Lighter Mfg. Co., San Francisco, Calif. Cigarette lighters. Serial No. 646,696, Nov. 3. Class 8.
Tigges Lighter Mfg. Co.: *See*—
Tigges, Eberhard.
Townsend, Albert L., doing business as Pettfish Company, Haddonfield, N. J. Sun-dried whole fish. Serial No. 607,971, Nov. 3. Class 46.
Transparent Package Company, Chicago, Ill. Plastic tubes. Serial No. 625,833, Nov. 3. Class 2.
Troutner, Wayne L., Winslow, Ariz. Men's clothing. Serial No. 645,020, Nov. 3. Class 39.
Turner, Harold R., Ipswich, Mass. Sail boats. Serial No. 631,766, Nov. 3. Class 19.
Union Carbide and Carbon Corporation, New York, N. Y. Metal alloy welding rods. Serial No. 648,212, Nov. 3. Class 14.
Vilter Manufacturing Co., The, Milwaukee, Wis. Casting metals and metal castings. Serial No. 638,339, Nov. 3. Class 14.
Vis-Ko, Inc., Sumner, Wash. Compound for use in the eradication of fish. Serial No. 639,728, Nov. 3. Class 6.
Wales Game Systems, Inc., Buffalo, N. Y. Board games. Serial No. 635,986, Nov. 3. Class 22.
Wander Company, The, Chicago, Ill. Cough syrup. Serial No. 635,382, Nov. 3. Class 18.
Watson, James, & Co. Limited, Seagate, Dundee, Scotland. Scotch whisky. Serial No. 622,284, Nov. 3. Class 49.
Weartex Rug Company, Oakland, Calif. Braided and woven cotton and wool rugs. Serial No. 646,246, Nov. 3. Class 42.
Weinstein, Samuel, Chicago, Ill. Entertainment services. Serial No. 643,323, Nov. 3. Class 107.
Westbrooke Clothes: *See*—
Schlein, Samuel E., Inc.
Western Tablet & Stationary Corporation, Dayton, Ohio. Paper tablets; account, data and order books; loose writing paper, etc. Serial No. 640,486, Nov. 3. Class 37.
Weyand & Hogman Fish Company, Wyandotte, Mich. Fresh and frozen, cooked and raw seafoods. Serial No. 637,097, Nov. 3. Class 46.
Wickes Corporation, The, Saginaw, Mich. Molded carbon products—namely, machinery bearings, pump vanes, etc. Serial No. 625,936, Nov. 3. Class 23.
Will-Burt Company, The, Orrville, Ohio. Bench vises. Serial No. 644,885, Nov. 3. Class 23.
Wilson, A. L., Chemical Company, Kearny, N. J. Cleaning solvent. Serial No. 641,411, Nov. 3. Class 52.
Wolf, Otto J., Toronto, Ontario, Canada. Intake and exhaust manifold attachments used in conjunction with carburetors, etc. Serial No. 634,177, Nov. 3. Class 23.
Woodford, Joseph C., Ferrysburg, Mich. Hand sweeping device. Serial No. 638,751, Nov. 3. Class 29.
Woolworth, F. W., Co., New York, N. Y. Bob pins. Serial No. 636,909, Nov. 3. Class 40.
World Merchandise Exchange & Trading Co. Inc., New York, N. Y. Pyrophoric cigar and cigarette lighters. Serial No. 646,191, Nov. 3. Class 8.
Zion Industries, Inc., Zion, Ill. Candles. Serial No. 570,347, Nov. 3. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbotts Dairies, Inc., Philadelphia, Pa. Ice cream and sherbets. 581,878, Nov. 3; Serial No. 632,407, published May 26, 1953. Class 46.
Ace Reid Cartoons, Kerrville, Tex. Cartoons. 582,049, Nov. 3; Serial No. 642,792, published July 28, 1953. Class 38.
Adele Apron Co.: *See*—
Stirton, Marguerite A.
Adues S. A. R. L., Geneva, Switzerland. Automatic watches. 581,775, Nov. 3; Serial No. 611,748, published June 16, 1953. Class 27.
Aerofall Mills Limited, Toronto, Ontario, Canada. Mineral crushing and screening plant. 581,847, Nov. 3; Serial No. 629,070, published July 28, 1953. Class 23.
Aeroplane Spinner Manufacturing Co.: *See*—
Scanlan, Elizabeth S.
Aerosmith, Inc., Miami, Fla. Locking socket. 582,020, Nov. 3; Serial No. 641,591, published Aug. 11, 1953. Class 13.
Aircraft Armaments, Inc., Baltimore, Md. Engineering consultation and advice in the fields of aeronautics and ordnance, etc. 582,143, Nov. 3; Serial No. 622,061. Class 100.
Aktieselskabet De Forenede Bryggerier, Copenhagen, Denmark. Malt beverages. 307,268, renewed Oct. 24, 1953. O. G. Nov. 3. Class 48.
Alexander-Kins, Inc., New York, N. Y. Dolls. 582,083, Nov. 3; Serial No. 646,343, published Aug. 11, 1953. Class 22.
Allen Manufacturing Company, Columbus, Ohio. Pillows and mattresses. 582,136, Nov. 3; Serial No. 635,575. Class 32.
Allied Hardware & Stamping Co.: *See*—
Iovieno, Albert J.
Allied Van Lines, Inc., Broadview, Ill. Storage and packing of household goods, etc. 582,095, Nov. 3; Serial No. 638,625, published Aug. 11, 1953. Class 105.
Aluminum Company of America, Pittsburgh, Pa. Headed screw machine products. 305,685, renewed Aug. 22, 1953. O. G. Nov. 3. Class 13.
American Bildrok Company, Chicago, Ill. Mineral body of porous, cellular, finely-divided, inert, sponge-like material for conditioning the soil. 582,056, Nov. 3; Serial No. 643,063, published Aug. 11, 1953. Class 10.
American Bitumuls & Asphalt Company: *See*—
American Bitumuls Company.
American Bitumuls Company, Wilmington, Del., and San Francisco, Calif., to American Bitumuls & Asphalt Company, San Francisco, Calif. Asphalt, asphalt binders, asphaltic emulsions and compounds, etc. 305,285, renewed Aug. 8, 1953. O. G. Nov. 3. Class 12.
American Chicle Company, Long Island City, N. Y. Medicated chewing gum. 581,949, Nov. 3; Serial No. 637,980, published July 7, 1953. Class 18.
American Cyanamid Company, New York, N. Y. Machine which forms a gelatin film, and forms, measures, and fills the gelatin capsules therefrom. 581,862, Nov. 3; Serial No. 630,981, published June 30, 1953. Class 26.
American Encaustic Tiling Company, Ltd., Zanesville, Ohio, Maurer, N. J., Los Angeles, Calif., New York, N. Y., Chicago, Ill., and St. Louis, Mo., by Gladding McBean & Company, Los Angeles, Calif. Ceramic wall, floor, and ceiling tiles and ceramic tiles. 223,369, Feb. 1, 1927. Republished Nov. 3. Class 12.
American Ferment Co., Inc., New York, N. Y. Analgesic preparation. 582,044, Nov. 3; Serial No. 642,593, published Aug. 11, 1953. Class 18.
American Machine Products Co., Detroit, Mich., by Greenfield Tap and Die Corporation, Greenfield, Mass. Twist drills, milling cutters, and reamers. 166,786, Apr. 17, 1923. Republished Nov. 3. Class 23.
American Public Health Association, New York, N. Y. Achievement testing services. 582,088, Nov. 3; Serial No. 628,991, published Aug. 4, 1953. Class 100.
American Tool Works Co., The, Cincinnati, Ohio. Engine lathes and radial drills. 582,069, Nov. 3; Serial No. 644,709, published July 14, 1953. Class 23.
Ann-Ette of Hollywood: *See*—
Nehamen, Seymour.
Ansul Chemical Company, Marinette, Wis. Desiccant for refrigerants. 582,075, Nov. 3; Serial No. 644,950, published Aug. 4, 1953. Class 6.
Archer Rubber Company, Milford, Mass. Rubberized fabrics. 303,342, May 23, 1933. Republished Nov. 3. Class 42.
Arizona Chemical Company, New York, N. Y. Tall oil fatty acid. 581,964, Nov. 3; Serial No. 638,683, published Aug. 11, 1953. Class 6.
Arkow-Lewis Frosties Division, Philadelphia, Pa. Adhesive coated cut outs of spun glass. 581,854, Nov. 3; Serial No. 629,595, published July 14, 1953. Class 50.
Aspegren & Co., New York, N. Y., to The Procter & Gamble Company, Cincinnati, Ohio. Cotton-seed oil. 91,446, re-renewed May 6, 1953. O. G. Nov. 3. Class 46.
Aspegren & Co., New York, N. Y., to The Procter & Gamble Company, Cincinnati, Ohio. Cotton-seed oil. 91,448, re-renewed May 6, 1953. O. G. Nov. 3. Class 46.
Associated Merchandising Corporation, The, New York, N. Y. Women's hosiery. 582,121, Nov. 3; Serial No. 627,664. Class 39.
Aug. Stenman Aktiebolag, Eskilstuna, Sweden. Door locksets. 581,810, Nov. 3; Serial No. 622,423, published Aug. 4, 1953. Class 25.

Austenal Laboratories, Incorporated, New York, N. Y. Dental prosthetic appliances and for surgical appliances. 581,911–12, Nov. 3; Serial Nos. 635,342–3, published Aug. 4, 1953. Class 44.
B & W Rainbow Stamp Company, Killeen, Tex. Trading stamps. 582,038, Nov. 3; Serial No. 642,457, published July 28, 1953. Class 38.
Bailly, P., & Cie: *See*—
Bailly, P., & Cie
Bailly, P., & Cie., to P. Bailly & Cie, Paris, France. Shoulder braces and suspenders. 92,939, re-renewed Aug. 12, 1953. O. G. Nov. 3. Class 39.
Bankers Life Company, Des Moines, Iowa. Underwriting of accident and sickness insurance. 582,094, Nov. 3; Serial No. 638,468, published Aug. 11, 1953. Class 102.
Bardco Manufacturing & Sales Company, Los Angeles, Calif. Gates and valves and parts thereof. 581,883, Nov. 3; Serial No. 632,822, published Aug. 11, 1953. Class 13.
Bar-Gar Mineral Plastic Products Co., Inc., Sioux Falls, S. Dak. Blast furnace blocks, foundation blocks for buildings, blocks for bridge abutments, etc. 581,826, Nov. 3; Serial No. 625,321, published Aug. 11, 1953. Class 12.
Bar's Products Supply: *See*—
Barton, Frederic D.
Barton, Frederic D., doing business under the fictitious name and style of Bar's Products Supply, Dearborn, Mich. Radiator leak sealer, rust preventative, and rust inhibitor. 582,070, Nov. 3; Serial No. 644,714, published Aug. 4, 1953. Class 6.
Beautee-Fit Company, Los Angeles, Calif. Brassières, foundation garments, girdles, etc. 581,902, Nov. 3; Serial No. 634,441, published Aug. 4, 1953. Class 39.
Belrug Mill, Inc.: *See*—
Belrug Mills of South Carolina.
Belrug Mills of South Carolina, Greenville, S. C., by change of name from Belrug Mill, Inc. Foam rubber pads or mats. 581,870, Nov. 3; Serial No. 631,598, published July 7, 1953. Class 50.
Bennett Glass & Paint Company, to Bennett's, Salt Lake City, Utah. Self-polishing floor wax and paste floor wax. 306,793, renewed Sept. 26, 1953. O. G. Nov. 3. Class 4.
Bennett's: *See*—
Bennett Glass & Paint Company.
Best Foods, Inc., The, New York, N. Y., and Chicago, Ill., to The Best Foods, Inc., New York, N. Y. Oleomargarine. 309,722, renewed Jan. 30, 1954. O. G. Nov. 3. Class 46.
Beta Sigma Phi: *See*—
Ross, Walter W., and Company, Inc.
Beta Sigma Phi International: *See*—
Ross, Walter W., and Company, Inc.
Black Manufacturing Co., The, Seattle, Wash. Men's and boys' work and sport clothing. 581,944, Nov. 3; Serial No. 637,355, published July 21, 1953. Class 39.
"Blanchard": *See*—
Parfums Blanchard.
Bloom, Charles, Inc., New York, N. Y. Fabrics. 582,000, Nov. 3; Serial No. 640,666, published July 28, 1953. Class 42.
Bohemian Distributing Company: *See*—
Bohemian Distributing Co. Ltd.
Bohemian Distributing Company, Los Angeles, Calif. Vodka and ethyl alcohol. 442,333, Mar. 24, 1949. Republished Nov. 3. Class 49.
Bohemian Distributing Company, Los Angeles, Calif. Alcoholic cordials, whiskey, creme de cacao, etc. 443,189, Aug. 2, 1949. Republished Nov. 3. Class 49.
Bohemian Distributing Company, Los Angeles, Calif. Whiskey. 443,775, Feb. 21, 1950. Republished Nov. 3. Class 49.
Bohemian Distributing Company, Los Angeles, Calif. Gin. 443,822, Mar. 7, 1950. Republished Nov. 3. Class 49.
Bohemian Distributing Co. Ltd., by Bohemian Distributing Company, Los Angeles, Calif. Whiskey. 310,568, Feb. 27, 1934. Republished Nov. 3. Class 49.
Bohemian Distributing Co. Ltd., by Bohemian Distributing Company, Los Angeles, Calif. Whiskey. 320,932, Jan. 15, 1935. Republished Nov. 3. Class 49.
Bohemian Distributing Co. Ltd., by Bohemian Distributing Company, Los Angeles, Calif. Gin. 330,609, Dec. 10, 1935. Republished Nov. 3. Class 49.
Bond-Howell Lumber Company, assignor to Con-Dor Corporation of America, Jacksonville, Fla. Packaged door units. 581,917, Nov. 3; Serial No. 635,681, published July 7, 1953. Class 12.
Borden Company, The, New York, N. Y. Cheese. 581,978, Nov. 3; Serial No. 639,551, published June 16, 1953. Class 46.
Bostrom, Gustav J., doing business as Supergrate Open Steel Flooring Co., Los Angeles, Calif. Open-type flooring. 581,740, Nov. 3; Serial No. 557,724, published July 7, 1953. Class 12.
Botany Mills, Inc.: *See*—
Botany Worsted Mills.
Botany Worsted Mills, by Botany Mills, Inc., Passaic, N. J. Woolen piece goods. 348,695, Aug. 3, 1937. Republished Nov. 3. Class 42.
Bouregy & Curl, Inc., also doing business as Mystery House, New York, N. Y. Books. 582,139, Nov. 3; Serial No. 637,358. Class 38.
Bowers Printing Ink Company, Chicago, Ill. Printing and lithographic inks. 581,830, Nov. 3; Serial No. 625,843, published Aug. 11, 1953. Class 11.
Bowman, Chemicals, Inc., Los Angeles, Calif. Chemically treating metal products. 582,089, Nov. 3; Serial No. 629,544, published Aug. 4, 1953. Class 106.
Boyd-Britton, Incorporated, Chicago, Ill. Partition forming storage cabinets. 581,746, Nov. 3; Serial No. 577,095, published June 2, 1953. Class 32.
Bradley, Milton, Company, Springfield, Mass. Board game. 582,082, Nov. 3; Serial No. 646,261, published Aug. 4, 1953. Class 22.
Brambier, Irving, doing business as Ed-U-Cards, New York, N. Y. Educational card game. 581,871, Nov. 3; Serial No. 631,650, published Aug. 4, 1953. Class 22.
Breeze Corporations, Inc., Newark, N. J. Bellows. 581,834, Nov. 3; Serial No. 626,299, published Aug. 11, 1953. Class 13.
Breneman-Hartshorn Inc., Cincinnati, Ohio. Window shades. 581,996, Nov. 3; Serial No. 640,602, published Aug. 4, 1953. Class 32.
Breneman-Hartshorn Inc., Cincinnati, Ohio. Window shades. 581,997, Nov. 3; Serial No. 640,604, published Aug. 4, 1953. Class 32.
Breneman-Hartshorn Inc., Cincinnati, Ohio. Window shade rollers. 582,001, Nov. 3; Serial No. 640,723, published Aug. 4, 1953. Class 32.
Bridgeport Brass Company, Bridgeport, Conn. Insect repellent. 582,073, Nov. 3; Serial No. 644,826, published Aug. 4, 1953. Class 6.
Bristol Manufacturing Corporation, Bristol, R. I. Men's, women's and children's shoes. 581,950, Nov. 3; Serial No. 638,060, published July 28, 1953. Class 39.
Brooklyn Mills, Inc., Englewood, N. J. Hair nets. 581,895, Nov. 3; Serial No. 634,296, published July 28, 1953. Class 39.
Brosnan, John W., doing business under the name and style of Calfol Feed Company, Culver City, Calif. Feed. 582,128, Nov. 3; Serial No. 630,258. Class 46.
Brown, H. H., Shoe Co., Inc., Worcester, Mass. Men's, women's and children's boots and shoes. 581,921, Nov. 3; Serial No. 635,870, published July 28, 1953. Class 39.
Bullick Brothers, Ellsworth, Pa. Toy furniture. 581,769, Nov. 3; Serial No. 607,700, published Aug. 11, 1953. Class 22.
Burbridge, C. W., doing business under the name of Southwestern Stamp Works, assignor to Southwestern Stamp Works, Oklahoma City, Okla. Combined receptacles and mechanical measuring dispensers. 582,109, Nov. 3; Serial No. 606,453. Class 26.
Burns, Martha B., Wichita, Kans. Clip-on adjuster which facilitates the fitting of a garment to a display form. 581,941, Nov. 3; Serial No. 637,110, published July 14, 1953. Class 40.
Bymart, Inc., Dover, Del., and New York, N. Y., now by change of name Bymart-Tintair, Inc. Hair coloring preparations. 581,795, Nov. 3; Serial No. 617,909, published Aug. 11, 1953. Class 51.
Bymart-Tintair, Inc.: *See*—
Bymart, Inc.
Calfol Feed Company: *See*—
Brosnan, John W.
Camera-Mart, Inc., The, New York, N. Y. Cameras; camera dollies and parts thereof, etc. 581,796, Nov. 3; Serial No. 617,862, published June 30, 1953. Class 26.
Campbell & McClintock, Scarsdale, N. Y. Grooved phonograph records. 581,942, Nov. 3; Serial No. 637,238, published Aug. 4, 1953. Class 36
Canton, Chaplet and Manufacturing Company, The, Canton, Ohio. Foundry shrinkage control elements—namely metal inserts. 581,946, Nov. 3; Serial No. 637,700, published Aug. 11, 1953. Class 14.
Cardinal Neckwear: *See*—
Rosenberg, Harry.
Carew Manufacturing Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Ledger and bond paper. 273,012, July 15, 1930. Republished Nov. 3. Class 37.
Carew Manufacturing Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Writing and printing paper. 273,794, Aug. 12, 1930. Republished Nov. 3. Class 37.
Carew Manufacturing Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Writing and printing paper. 274,366, Aug. 26, 1930. Republished Nov. 3. Class 37.
Carew Manufacturing Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Writing and printing paper. 274,382, Aug. 26, 1930. Republished Nov. 3. Class 37.
Carew Manufacturing Company, South Hadley Falls, to Valley Paper Company, Holyoke, Mass. Writing and printing paper. 307,862, renewed Nov. 7, 1953. O. G. Nov. 3. Class 37.
Carpenter Steel Company, The, Reading, Pa. Steel. 581,799, Nov. 3; Serial No. 619,228, published Aug. 11, 1953. Class 14.
Cat Cay Realty Company, Limited, The, Nassau, Island of New Providence, Bahama Islands, British West Indies. Belt buckles; coins; key rings; etc. 581,801, Nov. 3; Serial No. 620,491, published June 23, 1953. Class 28.
Chamness, A. L.: *See*—
Facho Cap Company.

Champ Hats, Inc., Philadelphia, Pa. Hats. 581,831, Nov. 3; Serial No. 625,888, published July 28, 1953. Class 39.

Chapman Chemical Company, Memphis, Tenn. Insecticides. 582,071, Nov. 3; Serial No. 644,733, published Aug. 4, 1953. Class 6.

Charak Furniture Company, Boston, Mass. Extension tables. 581,988, Nov. 3; Serial No. 640,145, published Aug. 4, 1953. Class 32.

Charon, Bert, New York, N. Y. Women's and girls' sweaters. 582,140, Nov. 3; Serial No. 638,287. Class 39.

Cheshire Industries: *See*—
Kasseta, Joseph A.

Cinco, Saginaw, Mich. Cotton-covered capsules containing perfume. 582,120, Nov. 3; Serial No. 627,252. Class 51.

Clausen, Mrs. G. E., doing business as C. B. Gentry Chill Powder Co., Los Angeles, Calif., to Consolidated Grocers Corporation, Chicago, Ill. Chili powder. 302,573, renewed Apr. 25, 1953. O. G. Nov. 3. Class 46.

Cliff Co., Chicago, Ill. Work rest blades for centerless grinders. 581,866, Nov. 3; Serial No. 631,272, published July 21, 1953. Class 23.

Colleary, Michael J., Ottawa, Ontario, Canada. Racing games. 582,053, Nov. 3; Serial No. 642,947, published Aug. 11, 1953. Class 22.

Columbia Distilling Co.: *See*—
Tonkin Distributing Co.

Columbia Protektosite Company, Inc., Carlstadt, N. J. Sun glasses. 581,820, Nov. 3; Serial No. 624,228, published July 7, 1953. Class 26.

Columbian Mutual Life Insurance Company, Binghamton, N. Y. Underwriting of life, health, and accident insurance. 582,090, Nov. 3; Serial No. 629,787, published Aug. 11, 1953. Class 102.

Columbian Mutual Life Insurance Company, Binghamton, N. Y. Underwriting of life, health, and accident insurance. 582,100, Nov. 3; Serial No. 645,550, published Aug. 11, 1953. Class 102.

Con-Dor Corporation of America, assignee: *See*—
Bond-Howell Lumber Company.

Consolidated Grocers Corporation: *See*—
Clausen, Mrs. G. E.

Cook & Dunn Paint Corp., Newark, N. J. Paints, varnish, stains, and shellacs. 581,899, Nov. 3; Serial No. 634,300, published Aug. 4, 1953. Class 16.

Coon, W. B., Company, Rochester, N. Y. Women's shoes. 581,981, Nov. 3; Serial No. 639,873, published July 28, 1953. Class 39.

Coty, Inc., assignee: *See*—
Lelong, Lucien, Inc.

Craftshire Sports, Inc., New York, N. Y. Women's and misses' suits and coats. 581,963, Nov. 3; Serial No. 638,636, published July 28, 1953. Class 39.

Crescendoe Gloves, Inc., Johnstown, N. Y. Ladies' and misses' fabric gloves. 582,050, Nov. 3; Serial No. 642,804, published Aug. 4, 1953. Class 39.

Crompton Company: *See*—
Crompton-Richmond Company, Inc.

Crompton Company, to Crompton Company, Crompton, R. I. Velvets, velveteens, plushes, etc. 93,264, re-renewed Sept. 2, 1953. O. G. Nov. 3. Class 42.

Crompton-Richmond Company, Inc., New York, N. Y., to Crompton Company, Crompton, R. I. Pile fabrics. 305,557, renewed Aug. 22, 1953. O. G. Nov. 3. Class 42.

Crow, Nelson R., Publications, Inc., Los Angeles, Calif. Magazine. 582,122, Nov. 3; Serial No. 627,734. Class 38.

Crown Cork & Seal Company, Inc., Baltimore, Md. Container caps. 581,764, Nov. 3; Serial No. 602,931, published July 7, 1953. Class 50.

Crown Cork & Seal Company, Inc., Baltimore, Md. Decorated metal container caps. 582,022, Nov. 3; Serial No. 641,716, published July 14, 1953. Class 50.

Dahl, George W., Company, Inc., Bristol, R. I. Single actuator multiple valve units. 581,993, Nov. 3; Serial No. 640,550, published July 28, 1953. Class 13.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. 581,819, Nov. 3; Serial No. 623,953, published July 28, 1953. Class 42.

Davega-City Radio Stores, Inc., to Davega Stores Corporation, New York, N. Y. Golf balls. 304,294, renewed June 27, 1953. O. G. Nov. 3. Class 22.

Davega-City Radio Stores, Inc., to Davega Stores Corporation, New York, N. Y. Roller skates and handball gloves. 304,648, renewed July 11, 1953. O. G. Nov. 3. Class 22.

Davega Stores Corporation: *See*—
Davega-City Radio Stores, Inc.

Davies & Meacham, to The Patterson-Sargent Company, Cleveland, Ohio. Mixed paints. 91,464, re-renewed May 6, 1953. O. G. Nov. 3. Class 16.

Dayton Bread Co., The, Dayton, Ohio. Bread, sandwich rolls, sweet rolls, Danish pastry, etc. 582,123, Nov. 3; Serial No. 627,869. Class 46.

Dayton Pump & Manufacturing Company, The, Dayton, Ohio. Water-softeners. 581,918, Nov. 3; Serial No. 635,689, published July 21, 1953. Class 31.

Debevoise Company, The, Brooklyn, N. Y. Paints. 581,924, Nov. 3; Serial No. 636,120, published Aug. 11, 1953. Class 16.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 581,821, Nov. 3; Serial No. 624,476, published July 28, 1953. Class 42.

De Goss Laboratories, New York, N. Y. Cleaning and polishing compounds. 581,797, Nov. 3; Serial No. 618,846, published Aug. 4, 1953. Class 4.

Dejonge, Louis, & Company, New York, N. Y. Paper protective coverings. 582,107, Nov. 3; Serial No. 591,915. Class 37.

Di Maria, Joseph F., Palo Alto, Calif. Bedding clamps. 581,875, Nov. 3; Serial No. 632,201, published July 28, 1953. Class 32.

DoAll Company, The, Des Plaines, Ill. Supply cabinets. 579,071, Aug. 25, 1953. Canceled Sept. 25, 1953. O. G. Nov. 3. Class 32.

Dolge, C. B., Company, The, Westport, Conn. Preparation for exterminating moles. 582,079, Nov. 3; Serial No. 645,758, published Aug. 4, 1953. Class 6.

Dow Chemical Company, The, to The Dow Chemical Company, Midland, Mich. Insecticides, fungicides, germicides, etc. 308,845, renewed Dec. 26, 1953. O. G. Nov. 3. Class 6.

Duron Paint Manufacturing Company, Washington, D. C. Ready-mixed paint, varnishes, wood stains, etc. 581,794, Nov. 3; Serial No. 617,653, published Aug. 4, 1953. Class 16.

E-Z Buckle, Inc., New York, N. Y. Buckles. 581,948, Nov. 3; Serial No. 637,918, published Aug. 4, 1953. Class 40.

Earnest, Henry J., Chicago, Ill. Fireproof moldable substance and for construction blocks and sheets. 581,755, Nov. 3; Serial No. 593,337, published July 28, 1953. Class 12.

Eastern Art Products, Chicago, Ill. Casings and frames for clocks. 581,778, Nov. 3; Serial No. 614,292, published July 28, 1953. Class 27.

Eastern Art Products, Chicago, Ill. Stock glass. 581,779, Nov. 3; Serial No. 614,293, published July 28, 1953. Class 33.

Eastern-Columbia, Inc., Los Angeles, Calif. Sewing machines. 581,770, Nov. 3; Serial No. 608,243, published July 21, 1953. Class 23.

Eastern Rotorcraft Corporation, Neshaminy, Pa. Cargo securing devices. 581,828, Nov. 3; Serial No. 625,666, published Aug. 11, 1953. Class 13.

Eastman Kodak Company: *See*—
Lyster Chemical Co.

Eberly, John A., Inc., Mohnton, Pa. Knitting machine parts. 581,754, Nov. 3; Serial No. 591,919, published July 14, 1953. Class 23.

Econaway Manufacturing Co.: *See*—
Econaway Manufacturing Company.

Econaway Manufacturing Company, also known as Econaway Manufacturing Co., Bellevue, Mich. Belt splicing unitary apparatus. 581,789, Nov. 3; Serial No. 616,764, published July 14, 1953. Class 23.

Editor & Publisher Co., The, New York, N. Y. Newspapers. 94,168, re-renewed Nov. 11, 1953. O. G. Nov. 3. Class 38.

Editor & Publisher Co., The, New York, N. Y. Newspapers. 94,433, re-renewed Dec. 9, 1953. O. G. Nov. 3. Class 38.

Ed-U-Cards: *See*—
Brambier, Irving.

Electric & Musical Industries Limited, Hayes, Middlesex, England. Phonographic styluses. 569,348, Jan 20, 1953. Canceled Sept. 25, 1953. O. G. Nov. 3. Class 36.

Electric Sprayit Company, The, Sheboygan, Wis. Air pressure regulating valves. 581,857, Nov. 3; Serial No. 629,995, published Aug. 4, 1953. Class 13.

Electric Steel Foundry, Portland, Oreg. Periodical. 582,045, Nov. 3; Serial No. 642,629, published July 28, 1953. Class 38.

Electrodyne Co., Norwood, Mass. Electro-physiological device. 582,039, Nov. 3; Serial No. 642,532, published Aug. 4, 1953. Class 44.

Elgin Softener Corporation, Elgin, Ill. Water softener regenerating units. 581,907, Nov. 3; Serial No. 634,838, published Aug. 11, 1953. Class 31.

Emco Cement Products, Inc., Paxinos, Pa. Mixture of sand, cement waterproofing agent, hardener, and mineral coloring to be used in making artificial building stone. 581,925, Nov. 3; Serial No. 636,225, published July 7, 1953. Class 12.

Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 582,081, Nov. 3; Serial No. 646,059, published Aug. 4, 1953. Class 22.

EnzRust Co.: *See*—
Price, Burton S.

Essick Manufacturing Company, Los Angeles, Calif. Weed and pest spraying machines. 582,102–3, Nov. 3; Serial Nos. 538,258–9. Class 23.

Eterne Manufacturing Corporation, New York, N. Y. Hair tints. 581,803, Nov. 3; Serial No. 620,777, published July 7, 1953. Class 51.

Everedy Company, The, Frederick, Md. Metal hollow ware ovens. 581,748, Nov. 3; Serial No. 580,053, published Jan 8, 1952. Class 13.

Everlast Sporting Goods Mfg. Co.: *See*—
Golomb, Jacob J.

Exelento Medicine Co., to Exelento Medicine Company, Atlanta, Ga. Quinin pomade, liniment, and skin-lotion. 92,058, renewed June 17, 1953. O. G. Nov. 3. Class 51.

Exelento Medicine Company: *See*—
Exelento Medicine Co.

Extraction and Chemical Company, Inc., New York, N. Y. Toilet water. 581,904, Nov. 3; Serial No. 634,529, published July 7, 1953. Class 51.

Facho Cap Company, to A. L. Chamness, doing business as Facho Cap Company, Dallas, Tex. Children's caps and berets. 307,314, renewed Oct. 24, 1953. O. G. Nov. 3. Class 39.

Farrell, John W., doing business as Regiment Products, Kansas City, Mo. Toilet kits. 582,130, Nov. 3; Serial No. 631,612. Class 51.

Fellows Gear Shaper Company, The, Springfield, Vt. Gear cutting machines, gear lapping machines, gear burnishing machines, etc. 581,736, Nov. 3; Serial No. 490,374, published June 2, 1953. Class 23.

Ferrersflex Limited, Higham Ferrers, England. Stiffeners, being parts of boots and shoes. 582,009, Nov. 3; Serial No. 641,035, published July 28, 1953. Class 39.

Fichtel & Sachs Aktiengesellschaft, Schweinfurt am Main (West), Germany. Bicycles, motorcycles, motorbicycles, etc. 581,822, Nov. 3; Serial No. 624,716, published Aug. 4, 1953. Class 19.

Filtrator Coffee Apparatus Co., Inc., New York, N. Y. Filter paper. 581,818, Nov. 3; Serial No. 623,831, published Aug. 11, 1953. Class 31.

Finch, H. G., Rocky Mount, N. C. Marble games. 581,913, Nov. 3; Serial No. 635,359, published Aug. 4, 1953. Class 22.

Finch, Joseph S., and Company: *See*—
Pennsylvania Distilling Co., Inc.

Fine Foods, Inc., Seattle, Wash. Canned fruits, canned fruit cocktail, canned applesauce, etc. 581,771, Nov. 3; Serial No. 608,539, published May 26, 1953. Class 46.

Fine, George, Tucson, Ariz. Dresses, blouses, skirts, etc. 581,986, Nov. 3; Serial No. 640,071, published July 28, 1953. Class 39.

Fink, E., & Sons Limited, Northampton, England. Men's suede leisure jackets, golf jackets, and waistcoats. 582,117, Nov. 3; Serial No. 625,669. Class 39.

Fink's Jewelers, Inc., Roanoke, Va. Watches. 581,998, Nov. 3; Serial No. 640,618, published June 9, 1953. Class 27.

Fish-Schurman Corporation, New Rochelle, N. Y. Lens blanks, lenses, color screens, etc. 581,852, Nov. 3; Serial No. 629,429, published June 30, 1953. Class 26.

Five Acres Farm, Telford, Pa. Piccalilli, jams, etc. 540,632, Apr. 10, 1951. Canceled Sept. 18, 1953. O. G. Nov. 3. Class 46.

Flint Company, Kansas City, Mo. Articles of jewelry. 581,848, Nov. 3; Serial No. 629,099, published June 9, 1953. Class 28.

Flintkote Company, The, New York, N. Y. Insulation board. 581,971, Nov. 3; Serial No. 639,218, published Aug. 11, 1953. Class 12.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 582,035, Nov. 3; Serial No. 642,345, published July 28, 1953. Class 42.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 582,040, Nov. 3; Serial No. 642,538, published July 28, 1953. Class 42.

Foster, Benjamin, Company, Philadelphia, Pa. Sealer coatings, primer coatings, roof coatings, etc. 582,108, Nov. 3; Serial No. 598,528. Class 16.

Fougera, E., & Co., Inc.: *See*—
Vouplé Company.

Fox, M. Ewing, Co., Inc., New York, N. Y. Rubber base paint. 581,983, Nov. 3; Serial No. 639,927, published Aug. 11, 1953. Class 16.

Fran Lee: *See*—
Weiss, Frances L.

Frederics, E., Inc., Brooklyn, N. Y. Hair lacquer, creme cold wave, creme vitalizer, etc. 581,849, Nov. 3; Serial No. 629,104, published July 28, 1953. Class 51.

French, R. T., Company, The: *See*—
Reckitts (New York) Ltd.

Fuhrer-Ford Milling Co., Mount Vernon, Ind. Wheat flour. 204,013, Oct. 6, 1925. Republished Nov. 3. Class 46.

Fuld & Helmendinger, to Novik & Co. Inc., New York, N. Y. Veils and hair nets. 306,767, renewed Sept. 26, 1953. O. G. Nov. 3. Class 39.

Fuller, Earl M., Kansas City, Mo. Drafting charts. 582,114, Nov. 3; Serial No. 618,033. Class 37.

Gardner Displays Company, Pittsburgh, Pa. Designing, constructing, maintaining, and repairing displays for industrial exhibits. 582,085, Nov. 3; Serial No. 534,104, published Aug. 11, 1953. Class 103.

Garland, George, doing business as Garland Publications, New York, N. Y. Periodical. 581,890, Nov. 3; Serial No. 633,765, published July 28, 1953. Class 38.

Garland Publications: *See*—
Garland, George.

Gas Material Supplies, Inc., West New York, N. J. Metal pipes, metal pipe couplings, and gas valves. 581,954, Nov. 3; Serial No. 638,256, published Aug. 11, 1953. Class 13.

Gates Rubber Company, The, Denver, Colo. Garden hose. 582,080, Nov. 3; Serial No. 645,976, published Aug. 4, 1953. Class 35.

Gaymont Foods Co., Chicago, Ill. Specially processed powdered dietary supplement. 581,859, Nov. 3; Serial No. 630,490, published Aug. 11, 1953. Class 46.

Gentry, C. B., Chili Powder Co.: *See*—
Clausen, Mrs. G. E.

Gerber Products Company, Fremont, Mich. Baby cosmetics. 581,840, Nov. 3; Serial No. 627,332, published July 7, 1953. Class 51.

Gershenow, Robt. K., Company, Inc., New York, N. Y. Women's and girls' dresses. 581,982, Nov. 3; Serial No. 639,880, published July 28, 1953. Class 39.

Gervais, Ch., Société Anonyme, Paris, France. Cheese and milk products. 581,935–6, Nov. 3; Serial Nos. 636,586–7, published Aug. 11, 1953. Class 46.

Gevaert Photo-Producten N. V., Mortsel, Belgium. Light sensitive materials for use in photography. 581,766, Nov. 3; Serial No. 605,952, published June 2, 1953. Class 26.

Gilbert, A. C., Company, The, New Haven, Conn. Portable electrically operated vibrating appliance for massaging the human body, etc. 582,057, Nov. 3; Serial No. 643,094, published Aug. 4, 1953. Class 44.

Gillette Company, The, doing business under the name and style of The Toni Company, Boston, Mass. Non-electrical hair curlers. 581,999, Nov. 3; Serial No. 640,624, published Aug. 11, 1953. Class 40.

Gilton Mfg. Corp., Brooklyn, N. Y. Tubular chairs, stools, portable towel racks, etc. 582,141, Nov. 3; Serial No. 638,764. Class 32.

Gladding McBean & Company: *See*—
American Encaustic Tiling Company, Ltd.

Golden, Donald L., Detroit, Mich. Ophthalmic contact lenses. 582,133, Nov. 3; Serial No. 633,724. Class 26.

Goldman, Mortimer D., New York, N. Y. Ladies' and misses' sportswear. 582,018, Nov. 3; Serial No. 641,552, published July 28, 1953. Class 39.

Golomb, Jacob J., doing business under the name and style of Everlast Sporting Goods Mfg. Co., New York, N. Y. Punching bag. 582,113, Nov. 3; Serial No. 616,152. Class 22.

Goodman, H., & Sons, Inc., Jersey City, N. J., and New York, N. Y. Non-electrical hair curlers, barrettes, and combs. 582,013, Nov. 3; Serial No. 641,290, published Aug. 11, 1953. Class 40.

Gordon & Ferguson, Inc., St. Paul, Minn. Leather blouses, leather vests, sheep-lined jackets, etc. 217,643, Sept. 7, 1926. Republished Nov. 3. Class 39.

Gorham Manufacturing Company, Providence, R. I. Bronze cinerary urns. 309,752, renewed Jan. 30, 1954. O. G. Nov. 3. Class 2.

Gottesman & Company, Incorporated, New York, N. Y. Wood pulp. 306,978–9, renewed Oct. 10, 1953. O. G. Nov. 3. Class 1.

Gottesman & Company, Incorporated, New York, N. Y. Wood pulp. 306,982, renewed Oct. 10, 1953. O. G. Nov. 3. Class 1.

Gottesman & Company, Incorporated, New York, N. Y. Wood pulp. 307,659, renewed Oct. 31, 1953. O. G. Nov. 3. Class 1.

Gottesman & Company, Incorporated, New York, N. Y. Wood pulp. 307,661, renewed Oct. 31, 1953. O. G. Nov. 3. Class 1.

Great Lakes Carbon Corporation, New York, N. Y. Expanded perlite for use as insulating material, etc. 581,781, Nov. 3; Serial No. 614,624, published July 7, 1953. Class 12.

Great Lakes Carbon Corporation, New York, N. Y. Filter aids. 581,919, Nov. 3; Serial No. 635,765, published July 7, 1953. Class 31.

Greenfield Tap and Die Corporation: *See*—
American Machine Products Co.

Gribben, Walter, Los Angeles, Calif. Characters of relatively thin flexible material in the nature of plastic letters and numerals. 581,827, Nov. 3; Serial No. 625,418, published July 7, 1953. Class 50.

Groves Thread Company, Gastonia, N. C. Thread. 568,104, Dec. 16, 1952. Canceled Sept. 18, 1953. O. G. Nov. 3. Class 43.

H. L. G. Company, Kalamazoo, to G. E. White, doing business as Velvet Service Company, Middleville, Mich. Mechanical water softeners. 303,761, renewed June 6, 1953. O. G. Nov. 3. Class 23.

Hackett-Carlson Company, Saginaw, Mich. Automobile door safety locks. 582,005, Nov. 3; Serial No. 640,856, published Aug. 11, 1953. Class 25.

Haering, Goldach: *See*—
Haering, Hans J.

Haering, Hans J., doing business as Häering, Goldach, Saint Gall, Switzerland. Cosmetic preparations. 581,851, Nov. 3; Serial No. 629,363, published July 7, 1953. Class 51.

Hampshire Paper Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Writing and printing paper. 277,377, Nov. 11, 1930. Republished Nov. 3. Class 37.

Hampshire Paper Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Writing and printing paper. 277,502, Nov. 11, 1930. Republished Nov. 3. Class 37.

Hampshire Paper Company, South Hadley Falls, to Valley Paper Company, Holyoke, Mass. Writing and printing paper. 307,177, renewed Oct. 17, 1953. O. G. Nov. 3. Class 37.

Hampshire Paper Company, South Hadley Falls, to Valley Paper Company, Holyoke, Mass. Writing and printing paper. 308,990, renewed Dec. 26, 1953. O. G. Nov. 3. Class 37.

Handley Brown Heater Company, Jackson, Mich. Pressure responsive automatic cut-off valves. 581,872, Nov. 3; Serial No. 631,926, published Aug. 11, 1953. Class 13.

Hang-Over Company, The, Chicago, Ill. Fabric strap having snap fasteners attached to each end. 581,861, Nov. 3; Serial No. 630,535, published July 14, 1953. Class 40.

Hargreaves, Dorothy M., New York, N. Y. Liquid dandruff remover. 581,951, Nov. 3; Serial No. 638,080, published July 28, 1953. Class 51.

Harriet Cotton Mills, Henderson, N. C. Carded cotton yarn. 581,835, Nov. 3; Serial No. 626,325, published Aug. 4, 1953. Class 43.

Hart, Hugh D., doing business as Herba-Vita Company, Camden, N. J., to Herba-Vita Company, Itasca, Ill. Tonic laxative medicine. 305,629, renewed Aug. 22, 1953. O. G. Nov. 3. Class 18.

Harting, Wesley A., doing business as United States Soft Water Company, Kansas City, Mo. Water softener. 581,914, Nov. 3; Serial No. 635,363, published July 7, 1953. Class 31.

Hartmann Company: *See*—
Hartmann Trunk Company.

Hartmann Trunk Company, by Hartmann Company, Racine, Wis. Wardrobe suitcases. 231,081, Aug. 9, 1927. Republished Nov. 3. Class 3.

Hartmann Trunk Company, by Hartmann Company, Racine, Wis. Wardrobe suitcases. 236,270, Dec. 6, 1927. Republished Nov. 3. Class 3.

Hedwin Corporation, Baltimore, Md. Plastic table place mats and plastic mats for beverage glasses. 581,809, Nov. 3; Serial No. 622,300, published July 14, 1953. Class 50.

Heltman, Walter G., Bellevue, Ohio. Rust remover having an abrasive ingredient. 581,824, Nov. 3; Serial No. 625,011, published Aug. 4, 1953. Class 4.

Henry Valve Company, Melrose Park, Ill. Driers for dehydrating a circulating fluid—namely, a refrigerant fluid, etc. 581,790, Nov. 3; Serial No. 616,909, published Aug. 11, 1953. Class 31.

Hepton & Co. (Clothiers) Limited, Leeds, England. Trousers. 581,987, Nov. 3; Serial No. 640,121, published July 21, 1953. Class 39.

Herba-Vita Company: *See*—
Hart, Hugh D.

Herrera, Mary, New York, N. Y. Ladies' handbags. 582,129, Nov. 3; Serial No. 630,495. Class 3.

Hettler, Herman H., Lumber Co., Chicago, Ill. Lumber, millwork, and fabricated lumber. 581,788, Nov. 3; Serial No. 616,319, published July 28, 1953. Class 12.

Hewitt Soap Company, Inc., The: *See*—
Robertson, J. T., Company, The.

Hickmott Canning Co., Antioch, Calif. Canned fruits, canned vegetables and canned deciduous fruit juices. 581,763, Nov. 3; Serial No. 601,499, published May 26, 1953. Class 46.

Hilton, Norman, Linden, N. J. Men's jackets and sport jackets. 582,021, Nov. 3; Serial No. 641,680, published July 28, 1953. Class 39.

Hindes Limited, Birmingham, England. Hair brushes, clothes brushes, dog brushes, etc. 582,036, Nov. 3; Serial No. 642,352, published Aug. 4, 1953. Class 29.

Hixon-Peterson Lumber Company, Toledo, Ohio. Lumber, millwork, wooden flooring, etc. 581,926, Nov. 3; Serial No. 636,293, published July 7, 1953. Class 12.

Hoglund Engineering and Manufacturing Company, Inc., Berkeley Heights, New Providence Township, Union County, N. J. Manually or electrically driven grinding wheel dressers. 581,772, Nov. 3; Serial No. 610,271, published July 21, 1953. Class 23.

Hollis Music, Inc., New York, N. Y. Grooved phonograph records. 581,888, Nov. 3; Serial No. 633,308, published Aug. 4, 1953. Class 36.

House of Swansdown, Inc., The, New York, N. Y. Woolen and worsted fabrics. 582,014, Nov. 3; Serial No. 641,302, published July 28, 1953. Class 42.

Hudson Engineering Corporation, Houston, Tex. Water cooling towers, and air-cooled heat exchangers. 581,777, Nov. 3; Serial No. 613,711, published Aug. 4, 1953. Class 31.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Power-operated sprayers. 581,876, Nov. 3; Serial No. 632,302, published July 21, 1953. Class 23.

Hudson Motor Car Company, Detroit, Mich. Automobile heaters. 582,084, Nov. 3; Serial No. 647,293, published Aug. 11, 1953. Class 19.

Huffman Manufacturing Company, The, Dayton, Ohio. Bicycle frames. 581,760, Nov. 3; Serial No. 599,435, published Aug. 4, 1953. Class 19.

Hurricane Manufacturing Company, Miami, Fla. Fishing tackle. 582,061, Nov. 3; Serial No. 643,325, published Aug. 4, 1953. Class 22.

Imperial Chemical Industries Limited, London and Millbank, England. Yarns and threads. 581,962, Nov. 3; Serial No. 638,583, published July 28, 1953. Class 43.

Imperial Knife Company, Inc., Providence, R. I. Flatware. 581,839, Nov. 3; Serial No. 627,134, published Nov. 18, 1952. Class 23.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Lubricating oils. 581,776, Nov. 3; Serial No. 612,497, published July 7, 1953. Class 15.

International Business Machines Corporation, New York, N. Y. Ink-filled cartridges for writing pens. 581,774, Nov. 3; Serial No. 611,702, published Aug. 11, 1953. Class 11.

International Molded Plastics, Inc., Cleveland, Ohio. Tumblers made of glass. 581,842, Nov. 3; Serial No. 627,944, published June 23, 1953. Class 33.

Iovieno, Albert J., doing business as Allied Hardware & Stamping Co., New Haven, Conn. Electrical outlet boxes. 582,017, Nov. 3; Serial No. 641,450, published July 14, 1953. Class 21.

Jaymar Specialty Company, Brooklyn, N. Y. Jigsaw puzzle game. 582,064, Nov. 3; Serial No. 643,593, published Aug. 4, 1953. Class 22.

Johns-Manville Corporation, New York, N. Y. Thermal insulation. 306,080, renewed Sept. 5, 1953. O. G. Nov. 3. Class 12.

Johns-Manville Corporation, New York, N. Y. Thermal insulation material. 306,770, renewed Sept. 26, 1953. O. G. Nov. 3. Class 12.

Johnson, Gordon, Company, Kansas City, Mo. Poultry eviscerating equipment. 581,881, Nov. 3; Serial No. 632,614, published July 21, 1953. Class 23.

Johnson & Johnson, New Brunswick, N. J. Combs. 582,002–3, Nov. 3; Serial Nos. 640,741–2, published July 14, 1953. Class 40.

K. B. Doll Corporation, New York, N. Y. Dolls. 581,903, Nov. 3; Serial No. 634,472, published Aug. 4, 1953. Class 22.

Kalart Company Inc., The, Plainville, Conn. Photographic attachments and accessories. 581,784, Nov. 3; Serial No. 615,711, published June 30, 1953. Class 26.

Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Cellulose ethers and products derived therefrom. 340,036, Oct. 27, 1936. Republished Nov. 3. Class 6.

Kaszeta, Joseph A., doing business as Cheshire Industries, New Haven, Conn. Metal clips for attaching fish hooks and the like to fishing lines. 582,111, Nov. 3; Serial No. 611,479. Class 22.

Katlen, Jessie, doing business as Roo-Amin Co., Rochester, N. Y. Medicinal tablets. 581,947, Nov. 3; Serial No. 637,710, published July 7, 1953. Class 18.

Keelavite Rotary Pumps & Motors Limited, Allesley, Coventry, England. Piston type directional valves; flow control, speed control and pressure reducing valves; etc. 582,041, Nov. 3; Serial No. 642,559, published Aug. 4, 1953. Class 13.

Kent, G. B., & Sons Limited, London, England. Combined massage and complexion brush. 581,927, Nov. 3; Serial No. 636,294, published Aug. 11, 1953. Class 29.

Kiefer, Augustine J., doing business as Kiefer Manufacturing Co., Pittsburgh, Pa. Storm windows, storm doors, window screens, etc. 581,808, Nov. 3; Serial No. 622,262, published July 7, 1953. Class 12.

Kiefer Manufacturing Co.: *See*—
Kiefer, Augustine J.

Kilgore, Inc.: *See*—
Kilgore Manufacturing Company, The.

Kilgore Manufacturing Company, The, by Kilgore, Inc., Westerville, Ohio. Toy pistols. 316,036, Aug. 14, 1934. Republished Nov. 3. Class 22.

King-Seeley Corporation, Ann Arbor, Mich. Governors for internal combustion engines. 581,753, Nov. 3; Serial No. 585,534, published June 2, 1953. Class 23.

Kleinert, I. B., Rubber Company, New York, N. Y. Bathing caps. 358,770, July 26, 1938. Republished Nov. 3. Class 39.

Kleinert, I. B., Rubber Company, New York, N. Y. Bathing caps. 371,078, Sept. 19, 1939. Republished Nov. 3. Class 39.

Kohler Co., Kohler, Wis. Closet seats and closet seat bumpers. 309,081, renewed Jan. 2, 1954. O. G. Nov. 3. Class 13.

Kolmer Laboratories: *See*—
Lovely, Sanford.

Kops Bros., Inc., New York, N. Y. Foundation garments. 581,858, Nov. 3; Serial No. 630,136, published July 28, 1953. Class 39.

Kord Manufacturing Co., Inc., New York, N. Y. Electric fans. 582,015, Nov. 3; Serial No. 641,383, published July 14, 1953. Class 21.

Kraft Foods Company: *See*—
Kraft-Phenix Cheese Corporation.

Kraft-Phenix Cheese Corporation, to Kraft Foods Company, Chicago, Ill. Vegetable extract. 306,601, renewed Sept. 26, 1953. O. G. Nov. 3. Class 46.

Kraft-Phenix Cheese Corporation, to Kraft Foods Company, Chicago, Ill. Casein precipitating agent. 307,995, renewed Nov. 14, 1953. O. G. Nov. 3. Class 46.

Kress, S. H., and Company, New York, N. Y. Kid hair curlers. 582,037, Nov. 3; Serial No. 642,444, published July 28, 1953. Class 40.

Kurland Enterprises, Inc., Leonia, N. J. Scoreboard game. 581,877, Nov. 3; Serial No. 632,378, published Aug. 4, 1953. Class 22.

Lakeside Manufacturing Company, Milwaukee, Wis. Electrically heated serving tables. 582,137, Nov. 3; Serial No. 635,599. Class 21.

La Resista Corset Company, The, Bridgeport, Conn. Brassières, ladies' foundation undergarments, and ladies' bathing suits. 582,029, Nov. 3; Serial No. 642,147, published July 28, 1953. Class 39.

Leeds Ltd. Coats, Inc.: *See*—
Siegel Bros. Garment Corp.
Siegel Bros. Kiki Maid Koats, Inc.

Lelong, Lucien, Inc., Chicago, Ill., assignor to Coty, Inc., New York, N. Y. Perfumes and colognes. 581,906, Nov. 3; Serial No. 634,793, published July 28, 1953. Class 51.

Levin, Albert I., trading as Little Charmer Blouse Co., Philadelphia, Pa. Children's and girls' blouses. 581,741, Nov. 3; Serial No. 564,999, published Aug. 11, 1953. Class 39.

Lewis, Rosemarie, doing business as Vogarell Products Company, Los Angeles, Calif. Enema powder. 430,992, July 1, 1947. Republished Nov. 3. Class 18.

Listo Pencil Corporation, Alameda, Calif. Marking pencils. 582,134, Nov. 3; Serial No. 634,230. Class 37.

Little-Beaver Co., The, Baltimore, Md. Storm windows and storm doors. 581,973, Nov. 3; Serial No. 639,481, published Aug. 11, 1953. Class 12.

Little Charmer Blouse Co.: *See*—
Levin, Albert I.

Live Food Products Co., Burbank, Calif. Imitation of chocolate from natural food sources. 582,138, Nov. 3; Serial No. 636,853. Class 46.

Long Manufacturing Co., Inc., Petersburg, Va. Locks, latches, and locking attachments therefor, etc. 581,933, Nov. 3; Serial No. 636,569, published Aug. 4, 1953. Class 25.

Lovely, Sanford, doing business as Kolmer Laboratories, Madison, Tenn. Solution for the temporary relief of minor simple earache. 581,885, Nov. 3; Serial No. 631,243, published July 7, 1953. Class 18.

Lowenstein, M., & Sons, Inc., New York, N. Y. Piece goods. 582,004, Nov. 3; Serial No. 640,749, published July 28, 1953. Class 42.

Lyster Chemical Co., Lawrence, Mass., to Eastman Kodak Company, Rochester, N. Y. Preparation for preserving wood. 93,452, re-renewed Sept. 16, 1953. O. G. Nov. 3. Class 6.

Magic Pantry Co., Los Angeles, Calif. Deep freezers. 581,814, Nov. 3; Serial No. 623,610, published July 28, 1953. Class 31.

Magnaflux Corporation, Chicago, Ill. Apparatus consisting of an air compressor and a powder spray gun, etc. 581,844, Nov. 3; Serial No. 628,179, published June 2, 1953. Class 26.

Maier, Hermann R., Andover, N. J. Plastic cookie-cutting molds. 582,019, Nov. 3; Serial No. 641,557, published July 21, 1953. Class 23.

Manfield and Sons, Limited, Northampton, England. Boots and shoes. 578,847, Aug. 18, 1953. Corrected. O. G. Nov. 3. Class 39.

Manley, Inc., Kansas City, Mo. Popped popcorn. 581,743, Nov. 3; Serial No. 569,334, published June 16, 1953. Class 46.

Mann, Robert, Inc., New York, N. Y. Ladies' and misses' outerwear. 582,131, Nov. 3; Serial No. 632,123. Class 39.

Marine Products Company, Detroit, Mich. Positive-displacement rotary liquid pumps. 581,737, Nov. 3; Serial No. 547,860, published July 21, 1953. Class 23.

Marks, Herbert J., doing business as Marks Paint Co., Louisville, Ky. Ready-mixed paints, varnishes, and paint enamels. 582,104, Nov. 3; Serial No. 582,972. Class 16.

Marks Paint Co.: *See*—
Marks, Herbert J.

Marley Company, Inc., The, Kansas City, Mo. Liquid cooling towers and parts thereof. 581,915, Nov. 3; Serial No. 635,369, published June 2, 1953. Class 31.

Marley Company, Inc., The, Kansas City, Mo. Liquid cooling towers and parts thereof. 581,916, Nov. 3; Serial No. 635,370, published June 9, 1953. Class 31.

Marshall Field & Company, Chicago, Ill. Pillows, mattresses, and box springs. 581,990, Nov. 3; Serial No. 640,519, published Aug. 4, 1953. Class 32.

Marshall-Wells Company, Duluth, Minn. Electric storage batteries, etc. 557,419, June 5, 1951. Canceled Sept. 25, 1953. O. G. Nov. 3. Class 21.

Mayer, Oscar, & Co., Inc., Chicago, Ill. Sausage. 582,116, Nov. 3; Serial No. 624,963. Class 46.

McGinniss, George S., South Norwalk, Conn. Advertising services. 582,087, Nov. 3; Serial No. 616,960, published Aug. 4, 1953. Class 101.

Melchior, Armstrong, Dessau Co. of Delaware, Inc., New York, N. Y., to Melchior, Armstrong, Dessau Co. of Delaware, Inc., Ridgefield, N. J. Replacement parts for domestic and commercial refrigerators. 307,740, renewed Oct. 31, 1953. O. G. Nov. 3. Class 31.

Merkin, M. J., Paint Co., Inc., New York, N. Y. Liquid paint or enamel. 309,590, renewed Jan. 23, 1954. O. G. Nov. 3. Class 16.

Meyer, H. H., Packing Company, The, Cincinnati, Ohio. Sausages. 582,065, Nov. 3; Serial No. 643,697, published Aug. 11, 1953. Class 46.

Miami Daily News, Inc., The, Miami, Fla. Weekly newspaper feature. 581,846, Nov. 3; Serial No. 628,548, published July 28, 1953. Class 38.

Military Service Company, The, Birmingham, Ala. Baseballs, basketballs, bats, softballs, etc. 581,757, Nov. 3; Serial No. 597,451, published Aug. 4, 1953. Class 22.

Miller & Co., Denver, Colo. Men's, women's, and children's outer shirts, pants, belts, etc. 581,853, Nov. 3; Serial No. 629,446, published July 28, 1953. Class 39.

Miller, Madalyn, Corporation, Los Angeles, Calif. Ladies' and misses' clothing. 581,905, Nov. 3; Serial No. 634,695, published Aug. 11, 1953. Class 39.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coated abrasives. 581,945, Nov. 3; Serial No. 637,664, published Aug. 4, 1953. Class 4.

Moore Drop Forging Company, Springfield, Mass. Wrenches. 93,106, re-renewed Aug. 19, 1953. O. G. Nov. 3. Class 23.

Morgenstern, Brooks & Company, Fredericksburg, Va. Waist band linings. 581,953, Nov. 3; Serial No. 638,209, published Aug. 4, 1953. Class 40.

Morrell, John, & Co., Ottumwa, Iowa. Canned food. 308,670, renewed Dec. 12, 1953. O. G. Nov. 3, 1953. Class 46.

Morrell, John, & Co., Ottumwa, Iowa. Coffee. 308,994, renewed Dec. 26, 1953. O. G. Nov. 3. Class 46.

Morris, Norman M., Corporation, New York, N. Y. Watches and clocks. 582,051, Nov. 3; Serial No. 642,831, published June 23, 1953. Class 27.

Mortensen, Carl, doing business as U. S. Marine Chemicals Co., New York, N. Y. Chemical additives to fuel oil and lubricating oil. 582,012, Nov. 3; Serial No. 641,200, published July 21, 1953. Class 15.

Morton-Withers Chemical Company, Greensboro, N. C. Plasticizers, esters, petroleum sulphonates, etc. 581,991, Nov. 3; Serial No. 640,522, published Aug. 4, 1953. Class 6.

Mt. Vernon-Woodberry Mills, Inc., Baltimore, Md. Cotton duck, cotton piece goods, rayon piece goods, etc. 582,026, Nov. 3; Serial No. 642,083, published July 28, 1953. Class 42.

Myers, Betty E.: *See*—
Silvers, Betty E.

Mystery House: *See*—
Bouregy & Curl, Inc.

M. V. Betonfabriek De Meteoor, De Steeg, Community of Rheden, Netherlands. Concrete tiles, concrete plates and concrete curbstones, concrete blocks, etc. 306,213, renewed Sept. 12, 1953. O. G. Nov. 3. Class 12.

National Association for Mental Health, Inc., The, New York, N. Y. Services relating to the improvement of mental health. 582,097, Nov. 3; Serial No. 640,351, published Aug. 11, 1953. Class 100.

National Mattress Company, Huntington, W. Va. Cots. 581,750, Nov. 3; Serial No. 580,496, published July 28, 1953. Class 32.

National Plastic Products Company, The, Odenton, Md. Chair leg tips. 581,994, Nov. 3; Serial No. 640,575, published July 28, 1953. Class 32.

National Silk Company, Incorporated, The, South Coventry, Conn. Threads, yarns, and novelty yarns. 582,058–60, Nov. 3; Serial Nos. 643,175–7, published July 28, 1953. Class 43.

Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow cases. 582,030, Nov. 3; Serial No. 642,156, published July 28, 1953. Class 42.

Nedick's, Inc., New York, N. Y. Serving and dispensing foods and beverages in restaurants. 582,093, Nov. 3; Serial No. 637,497, published Aug. 4, 1953. Class 100.

Nehamen, Seymour, doing business under the name Ann-Ette of Hollywood, Los Angeles, Calif. Women's and misses' maternity wearing apparel. 581,782, Nov. 3; Serial No. 614,630, published Aug. 11, 1953. Class 39.

Nelkin, Frances & Walter Inc., New York, N. Y. Fabric and yarn cording. 581,863, Nov. 3; Serial No. 631,018, published Aug. 4, 1953. Class 40.

Neushaefer, Helen, Inc., New York and College Point, N. Y. Nail polish remover preparation. 581,957, Nov. 3; Serial No. 638,308, published Aug. 11, 1953. Class 51.

Neusteter Co., The, Denver, Colo. Dresses, wraps, jackets, coats, etc. 581,884, Nov. 3; Serial No. 632,952, published July 28, 1953. Class 39.

New York Herald Tribune Inc., New York, N. Y. Newspaper column. 582,047, Nov. 3; Serial No. 642,684, published July 28, 1953. Class 38.

New York Silicate Book Slate Co., Inc., New York, N. Y. Chalkboard. 581,832, Nov. 3; Serial No. 626,043, published Aug. 11, 1953. Class 50.

Noah's Ark Auto Accessories, Inc., Rochester, N. Y. Radio tubes. 302,895, renewed May 2, 1953. O. G. Nov. 3. Class 21.

No-Sag Spring Company, Detroit and Warren Township, Mich. Spring assembly for upholstered furniture, mattresses and box springs. 581,873–4, Nov. 3; Serial Nos. 631,944–5, published Aug. 4, 1953. Class 32.

November, Nell, Richmond, Va. Pasteboard boxes and cartons. 581,786, Nov. 3; Serial No. 615,787, published Aug. 11, 1953. Class 2.

Novik & Co Inc.: *See*—
Fuld & Heimendinger.

Olson, Robert E., San Antonio, Tex. Metal surface treating compositions. 581,958, Nov. 3; Serial No. 638,309, published Aug. 11, 1953. Class 6.

Ontario Paper Company Limited, The, Township of Thorold, Ontario, Canada. Mixture of synthetic odoriferous or aromatic chemicals. 582,076, Nov. 3; Serial No. 645,055, published Aug. 4, 1953. Class 6.

Orthopedic Appliance and Limb Manufacturers Association, Washington, D. C. Periodical. 582,142, Nov. 3; Serial No. 646,418. Class 38.

Owens-Corning Fiberglas Corporation, Toledo, Ohio. Air filters. 581,738–9, Nov. 3; Serial Nos. 551,195–6, published June 16, 1953. Class 31.

Parfums Blanchard, doing business as "Blanchard", New York, N. Y. Toilet water, cologne, perfume, etc. 581,825, Nov. 3; Serial No. 625,294, published Aug. 11, 1953. Class 51.

Park Green & Company Limited, London, England. Domestic table pepper mills. 581,841, Nov. 3; Serial No. 627,596, published July 28, 1953. Class 23.

Parkway Crushed Fruit Company, Louisville, Ky. Chocolate flavored syrup, black walnuts in syrup, butterscotch, etc. 581,751, Nov. 3; Serial No. 581,009, published May 26, 1953. Class 46.

Pass, Capper & Son Limited, Bristol, England. Unwrought and partly wrought metals. 581,943, Nov. 3; Serial No. 637,300, published Aug. 4, 1953. Class 14.

Pass & Seymour, Inc., Syracuse, N. Y. Electric wiring devices and parts thereof. 581,889, Nov. 3; Serial No. 633,374, published July 21, 1953. Class 21.

Patterson-Sargent Company, The: *See*—
Davies & Meacham.

Pauli, Frank J., doing business as Sani-Septic Chemical Company, Cleveland, Ohio. Cleaning compound. 581,765, Nov. 3; Serial No. 605,228, published July 14, 1953. Class 52.

Pearl-Preview Shoe Co., Philadelphia, Pa. Women's shoes. 581,970, Nov. 3; Serial No. 639,187, published July 28, 1953. Class 39.

Pedigreed Seed Co., New York, N. Y. Grass seed. 581,767, Nov. 3; Serial No. 607,350, published Feb. 10, 1953. Class 1.

Penetred Corporation, Marshfield, Wis. Wire skid control coils. 581,837, Nov. 3; Serial No. 626,469, published Aug. 11, 1953. Class 14.

Penick, S. B., & Company, New York, N. Y. Allethrin-synergist combinations for use as insecticides. 582,066, Nov. 3; Serial No. 644,446, published Aug. 4, 1953. Class 6.

Penick, S. B., & Company, New York, N. Y. Insecticidal formulations. 582,067, Nov. 3; Serial No. 644,447, published Aug. 4, 1953. Class 6.

Pennsylvania Distilling Co., Inc., Logansport, Pa., and Brooklyn, N. Y., to Joseph S. Finch and Company, Schenley, Pa. Whisky. 309,654, renewed Jan. 23, 1954. O. G., Nov. 3. Class 49.

Penrose, A. M., & Co., Inc.: *See*—
Tonkin Distributing Co.

Perx Company, Chicago, Ill. Tooth paste. 368,101, June 6, 1939. Canceled Oct. 2, 1953. O. G. Nov. 3. Class 51. (Formerly Class 6.)

Peter Pan Foundations, Inc., New York, N. Y. Brassières. 582,062, Nov. 3; Serial No. 643,365, published Aug. 4, 1953. Class 39.

Philippine Air Lines, Inc., Manila, Republic of the Philippines, Honolulu, Hawaii, San Francisco, Calif., New York, N. Y., Chicago, Ill., Los Angeles, Calif., and Washington, D. C. International air line transportation of passengers and cargo. 582,098, Nov. 3; Serial No. 640,523, published Aug. 11, 1953. Class 105.

Piano Action & Key Corp., Memphis, Tenn. Piano actions. 581,910, Nov. 3; Serial No. 635,234, published Aug. 11, 1953. Class 36.

Pioneer Suspender Company, Philadelphia, to Pioneer Suspender Company, Darby, Pa. Belt buckles. 307,982, renewed Nov. 14, 1953. O. G. Nov. 3. Class 40.

Pioneer Suspender Company, Philadelphia, Pa., to Pioneer Suspender Company, Darby, Pa. Belt buckles. 308,299, renewed Nov. 28, 1953. O. G. Nov. 3. Class 28.

Pipeline Protection Company, Denver, Colo. Corrosion inhibiting impregnated fabric tapes for wrap-around application to pipes or the like. 581,744–5, Nov. 3; Serial Nos. 570,883–4, published July 28, 1953. Class 12.

Planters Edible Oil Company, Suffolk, Va. Cooking and salad oil. 307,927, renewed Nov. 14, 1953. O. G. Nov. 3. Class 46.

Plastic Art Toy Corporation of America: *See*—
Richardson Company, The.

Plastic Binding Corporation, Chicago, Ill. Machines for applying bindings to stacks of paper or the like. 345,832, May 11, 1937. Republished Nov. 3. Class 23.

Pleasure Togs, Inc., Atlanta, Ga. Women's and girls' blouses. 582,048, Nov. 3; Serial No. 642,689, published Aug. 4, 1953. Class 39.

Plymouth Products Company: *See*—
Robertson, J. T., Company, The.

Polymer Industries Inc., Astoria, N. Y. Printing gum; sizing compound; and textile and paper finishing compounds. 582,072, Nov. 3; Serial No. 644,787, published Aug. 4, 1953. Class 6.

Price, Burton S., doing business as EnzRust Co., Newton, Mass. Engine fuel additive. 581,959, Nov. 3; Serial No. 638,312, published July 28, 1953. Class 15.

Prismo Safety Corporation, Huntingdon, Pa. Highway marker coating material. 581,756, Nov. 3; Serial No. 595,280, published Aug. 11, 1953. Class 16.

Procter & Gamble Company, The: *See*—
Aspegren & Co.

Procter & Gamble Company, The, Cincinnati, Ohio. Hydrogenated flaked cottonseed oil used as a food. 306,459, renewed Sept. 19, 1953. O. G. Nov. 3. Class 46.

Putnam Finishing Company, Mechanicsville, Conn. Dyeing of rayon, silks and acetates. 554,861, Feb. 12, 1952. Canceled Oct. 2, 1953. O. G. Nov. 3. Class 106.

R-J Enclosures, Inc., New York, N. Y. Acoustical loudspeaker enclosure cabinets. 582,010, Nov. 3; Serial No. 641,087, published July 28, 1953. Class 32.

R P M Manufacturing Company, Lamar, Mo. Power lawn mowers. 581,980, Nov. 3; Serial No. 639,717, published June 2, 1953. Class 23.

R & S Chemical Co., Portland, Oreg. Denture aids. 582,112, Nov. 3; Serial No. 614,669. Class 51.

Raleigh Cycle Co. Limited, The, Nottingham, England. Bicycles, motor-bicycles, tricycles, etc. 581,759, Nov. 3; Serial No. 599,018, published Aug. 4, 1953. Class 19.

Ramirez & Feraud Chili Co., Ventura, Calif. Canned roasted and peeled green chili peppers, canned red chili sauce, canned green chili sauce, etc. 582,054, Nov. 3; Serial No. 642,994, published June 9, 1953. Class 46.

Rayco Mfg. Co., Paterson, N. J. Automobile seat covers. 582,068, Nov. 3; Serial No. 644,516, published Aug. 4, 1953. Class 19.

Reckitts (New York) Ltd., to The R. T. French Company, Rochester, N. Y. Preparations for cleaning and polishing glass. 305,984, renewed Aug. 29, 1953. O. G. Nov. 3. Class 4.

Reddy Company, Inc., The, Montpelier, Vt. Safety pins. 582,135, Nov. 3; Serial No. 634,546. Class 40.

Reed, Claude A., assignor to Whirla-Whip, Inc., Omaha, Nebr. Frozen milk confection. 581,749, Nov. 3; Serial No. 580,429, published July 7, 1953. Class 46.

Reflective Insulation Company, Detroit, Mich. Metallic insulation material. 581,768, Nov. 3; Serial No. 607,398, published July 7, 1953. Class 12.

Regal Products Company, Inc., Chicago, Ill. Drinking straws. 581,850, Nov. 3; Serial No. 629,322, published July 7, 1953. Class 50.

Regiment Products: *See*—
Farrell, John W.

Registered Locksmiths' Guild of America, Inc., New York, N. Y. Locksmithing. 582,144, Nov. 3; Serial No. 628,426. Class 103.

Republic Oil Refining Company, Pittsburgh, Pa. Gasoline and lubricating oil. 582,042, Nov. 3; Serial No. 642,571, published July 28, 1953. Class 15.

Residex Corporation, Newark, N. J. Insecticides. 581,885, Nov. 3; Serial No. 633,074, published Aug. 4, 1953. Class 6.

Revlon Products Corporation, New York, N. Y. Lotion face cream. 581,938, Nov. 3; Serial No. 636,736, published July 7, 1953. Class 51.

Rexall Drug Company: *See*—
United Drug Company.

Richardson Company, The, Lockland, Ohio, to Plastic Art Toy Corporation of America, East Paterson, N. J. Doll's tea set. 309,168, renewed Jan. 2, 1954. O. G. Nov. 3. Class 22.

Rieck, E. W., Inc., Chicago, Ill. Chili sauce. 582,033, Nov. 3; Serial No. 642,306, published Aug. 4, 1953. Class 46.

Riker Laboratories, Inc., Los Angeles, Calif. Medicinal tablets. 582,007, Nov. 3; Serial No. 640,964, published July 7, 1953. Class 18.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Metal valves and cocks. 581,823, Nov. 3; Serial No. 624,850, published July 28, 1953. Class 13.

Robertson, J. T., Company, The, doing business as Plymouth Products Company, Syracuse, N. Y., to The Hewitt Soap Company, Inc., Dayton, Ohio. Soaps. 302,858, renewed May 2, 1953. O. G. Nov. 3. Class 52.

Rondette, New York, N. Y. Jewelry. 581,785, Nov. 3; Serial No. 615,724, published June 23, 1953. Class 28.

Ronor Corporation, The, Cleveland, Ohio. Plastic varnish-like coating, rust preventive coating material, etc. 582,106, Nov. 3; Serial No. 584,736. Class 16.

Roo-Amin Co.: *See*—
Katlen, Jessie.

Rose-Derry Company, Newton, Mass. Infants' portable seats for use in automobiles. 581,966, Nov. 3; Serial No. 638,811, published Aug. 4, 1953. Class 19.

Rosenberg, Harry, doing business under the name Cardinal Neckwear, New York, N. Y. Men's neckwear. 581,829, Nov. 3; Serial No. 625,822, published July 14, 1953. Class 39.

Ross, Walter W., and Company, Inc., doing business as Beta Sigma Phi and sometimes Beta Sigma Phi International, Kansas City, Mo. Organizing of chapters in a national business society and maintaining membership therein. 582,101, Nov. 3; Serial No. 620,017, published Aug. 11, 1953. Class 100.

Royal Home Products, Inc., doing business as Zanol Products, Cincinnati, Ohio. All purpose lotion, cologne, deodorant, etc. 581,860, Nov. 3; Serial No. 630,512, published Aug. 11, 1953. Class 51.

S. S. & S. Manufacturing Co., Evansville, Ind. Furniture. 582,127, Nov. 3; Serial No. 629,058. Class 32.

Sage Laboratories, Inc., New York, N. Y. Personal deodorant. 581,833, Nov. 3; Serial No. 626,052, published July 7, 1953. Class 51.

Sanders, H. M., Co., Boston, Mass. Cleaning, repairing, and adjusting door checks, sharpening and repairing saws, lawn mowers and other cutting tools, etc. 582,086, Nov. 3; Serial No. 597,355, published Aug. 4, 1953. Class 103.

Sanger, Norman H., Columbus, Ohio. Pin ball game. 581,864, Nov. 3; Serial No. 631,067, published Aug. 4, 1953. Class 22.

Sani-Septic Chemical Company: *See*—
Pauli, Frank J.

Scanlan, Elizabeth S., doing business as Aeroplane Spinner Manufacturing Co., Denver, Colo. Artificial fish lures. 581,908, Nov. 3; Serial No. 634,995, published Aug. 4, 1953. Class 22.

Schlough, Leon H., St. Cloud, Minn. Split concrete building blocks and bricks. 581,932, Nov. 3; Serial No. 636,541, published July 7, 1953. Class 12.

Schofield, E. L., Incorporated, Rockford, Ill. Automobile heaters and parts and accessories therefor. 582,115, Nov. 3; Serial No. 623,212. Class 19.

Scientific Glass Apparatus Co., Inc., Bloomfield, N. J. Assemblies consisting of a thermometer, and an adapter for mounting the thermometer in the neck of a vessel, etc. 581,886, Nov. 3; Serial No. 633,125, published June 30, 1953. Class 26.

Scovill Manufacturing Company, Waterbury, Conn. Bank pins, dressmaker pins, silk pins, etc. 581,806, Nov. 3; Serial No. 621,986, published Aug. 11, 1953. Class 40.

Sears, Roebuck and Co., Chicago, Ill. Brushless shaving cream, lather shaving cream, shave bowl (shaving soap) 581,807, Nov. 3; Serial No. 622,034, published July 7, 1953. Class 51.

Sears, Roebuck and Co., Chicago, Ill. Food bag or carton filler. 581,995, Nov. 3; Serial No. 640,585, published Aug. 11, 1953. Class 13.

Season-All Window Corp., New Rochelle, N. Y. Doors and windows. 581,931, Nov. 3; Serial No. 636,500, published Aug. 4, 1953. Class 12.

Selchow & Righter Company, New York, N. Y. Board game. 581,894, Nov. 3; Serial No. 634,166, published Aug. 11, 1953. Class 22.

Selchow & Righter Company, New York, N. Y. Board game. 581,909, Nov. 3; Serial No. 635,062, published Aug. 4, 1953. Class 22.

Senco Products, Inc., Cincinnati, Ohio. Staples. 582,027, Nov. 3; Serial No. 642,092, published July 28, 1953. Class 13.

Senco Products, Inc., Cincinnati, Ohio. Staplers and pneumatic tackers. 582,028, Nov. 3; Serial No. 642,093, published July 28, 1953. Class 23.

Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. 581,892, Nov. 3; Serial No. 633,881, published Aug. 4, 1953. Class 32.

Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. 581,896, Nov. 3; Serial No. 634,273, published Aug. 4, 1953. Class 32.

Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. 581,897–8, Nov. 3; Serial Nos. 634,275–6, published Aug. 4, 1953. Class 32.

Servel, Inc., Evansville, Ind., and New York, N. Y. Refrigerators, refrigerator parts, automatic refrigerators, etc. 581,773, Nov. 3; Serial No. 611,242, published June 30, 1953. Class 31.

Shakespeare Company, Kalamazoo Mich. Fishing reels. 582,119, Nov. 3; Serial No. 626,426. Class 22.

Sheffield Corporation, The, Dayton, Ohio. Sensing head adapted for contact with an object to be gaged. 581,868, Nov. 3; Serial No. 631,501, published June 30, 1953. Class 26.

Shirtcraft Company, Inc., The, New York, N. Y. Men's and boys' negligee, dress and sport shirts. 581,758, Nov. 3; Serial No. 598,435, published Apr. 21, 1953. Class 39.

Shirtcraft Company, Inc., The, New York, N. Y. Men's and boys' work, dress, and negligee shirts. 581,787, Nov. 3; Serial No. 616,056, published July 21, 1953. Class 39.

Shroyers Incorporated, Shamokin, Pa. Ladies' and misses' dresses. 581,940, Nov. 3; Serial No. 637,089, published Aug. 11, 1953. Class 39.

Shuron Optical Company, Inc., Geneva, N. Y. Bridges for ophthalmic mountings. 581,967, Nov. 3; Serial No. 638,916, published June 2, 1953. Class 26.

Siegel Bros. Garment Corp., by Leeds Ltd. Coats, Inc., New York, N. Y. Ladies' and misses' coats and suits. 406,348, Mar. 28, 1944. Republished Nov. 3. Class 39.

Siegel Bros. Garment Corp., by Leeds Ltd. Coats, Inc., New York, N. Y. Woolen and worsted fabrics. 408,852, Aug. 29, 1944. Republished Nov. 3. Class 42.

Siegel Bros. Garment Corp., now by change of name Leeds Ltd. Coats, Inc., by Leeds Ltd. Coats Inc., New York, N. Y. Removable cut-out linings. 415,307, Aug. 7, 1945. Republished Nov. 3. Class 39.

Siegel Bros. Kiki Maid Koats, Inc., by Leeds Ltd. Coats, Inc., New York, N. Y. Piece goods. 342,873, Feb. 2, 1937. Republished Nov. 3. Class 42.

Silvers, Betty E. (formerly B. E. Myers), doing business as Vocal Tones, West Los Angeles, Calif. Grooved phonograph records. 582,110, Nov. 3; Serial No. 607,294. Class 36.

Simon, Bessie M., Chicago, Ill. Skin lotion, essential cream, cleansing cream, and brilliantine. 581,802, Nov. 3; Serial No. 620,626, published July 7, 1953. Class 51.

Simon, M. & D., Company Incorporated, Cleveland, Ohio. Men's and boys' dress shirts and sport shirts. 581,747, Nov. 3; Serial No. 578,034, published Aug. 4, 1953. Class 39.

Skelly Oil Company, Tulsa, Okla., to Skelly Oil Company, Kansas City, Mo. Spotting and cleaning fluid. 301,161, renewed Nov. 21, 1953. O. G. Nov. 3. Class 52.

Skelly Oil Company, Tulsa, Okla., to Skelly Oil Company, Kansas City, Mo. Batteries and spark plugs. 308,756, renewed Dec. 19, 1953. O. G. Nov. 3. Class 21.

Skelly Oil Company, Tulsa, Okla., to Skelly Oil Company, Kansas City, Mo. Cigar lighter fluid. 308,939, renewed Dec. 26, 1953. O. G. Nov. 3. Class 6.

Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Men's, women's, misses', and children's caps; hats, shoes; gloves, etc. 581,960, Nov. 3; Serial No. 638,320, published July 28, 1953. Class 39.

Skrebba-Werk, Kommanditgesellschaft, Lahr, Black Forest, Germany. Stapling machines, staplers, tacking hammers, etc. 581,812, Nov. 3; Serial No. 623,524, published July 28, 1953. Class 23.

Slumberland Products Co., Waltham, Mass. Special bed combination, including mattress unit. 581,783, Nov. 3; Serial No. 615,292, published Aug. 11, 1953. Class 32.

Smith-Johannsen, Robert, doing business as Smith-Johannsen Wax Co., Niskayuna, N. Y. Wax for skis. 582,046, Nov. 3; Serial No. 642,657, published Aug. 4, 1953. Class 16.

Smith-Johannsen Wax Co.: *See*—
Smith-Johannsen, Robert.

Smoler, Boris, & Sons, Inc., Chicago, Ill. Women's dresses. 581,961, Nov. 3; Serial No. 638,445, published July 28, 1953. Class 39.

Soft Water Supply Co., Atchison, Kans. Water softeners and filters. 581,900, Nov. 3; Serial No. 634,350, published Aug. 11, 1953. Class 31.

South Shore Packing Corporation, The, Vermilion, Ohio. Vegetable and fruit preserves. 427,823, Feb. 25, 1947. Republished Nov. 3. Class 46.

South Shore Packing Corporation, The, Vermilion, Ohio. Fruit jams, fruit jellies, fruit marmalades, etc. 434,540, Nov. 25, 1947. Republished Nov. 3. Class 46.

Southern Citrus Association, Redlands, Calif. Fresh citrus fruits. 582,132, Nov. 3; Serial No. 633,469. Class 46.

Southern Oxygen Company, Bladensburg, Md. Oxygen, hydrogen, acetylene, etc. 581,968, Nov. 3; Serial No. 638,924, published Aug. 4, 1953. Class 6.

Southwestern Stamp Works: *See*—
Burbridge, C. W.

Speakman Company, Wilmington, Del. Flush valves. 308,565, renewed Dec. 12, 1953. O. G. Nov. 3. Class 13.

Speer Carbon Company, St. Marys, Pa. Fixed carbon resistors, non-conductive coil forms, and iron core coil forms. 582,011, Nov. 3; Serial No. 641,156, published July 14, 1953. Class 21.

Sporting Goods Publishing Company, The, St. Louis, Mo. Annual publication. 581,985, Nov. 3; Serial No. 640,055, published July 28, 1953. Class 38.

Sporting News Publishing Company, Inc., The, St. Louis, Mo. Newspaper column. 581,984, Nov. 3; Serial No. 640,054, published July 28, 1953. Class 38.

Standard Food Products Corp., Brooklyn, N. Y. Kummel. 582,105, Nov. 3; Serial No. 583,177. Class 49.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Services rendered at automotive service stations and garages. 582,091, Nov. 3; Serial No. 633,089, published Aug. 4, 1953. Class 103.

Standard Oil Company, The, Cleveland, Ohio. Petroleum-base lubricating oil. 581,939, Nov. 3; Serial No. 636,749, published Apr. 21, 1953. Class 15.

Standard Pressed Steel Co., Jenkintown, Pa. Metal dowel pins, self-locking nuts, internal wrenching nuts, etc. 581,922, Nov. 3; Serial No. 635,936, published Aug. 11, 1953. Class 13.

Standard Pressed Steel Co., Jenkintown, Pa. Portable carts, packing plant trucks, hand trucks, etc. 581,923, Nov. 3; Serial No. 635,937, published Aug. 11, 1953. Class 19.

Star Porcelain Company, The, Trenton, N. J. Electrical insulating compound. 308,615–16, renewed Dec. 12, 1953. O. G. Nov. 3. Class 21.

Startime, Inc., New York, N. Y. Women's and misses' dresses and evening gowns. 582,031, Nov. 3; Serial No. 642,175, published July 28, 1953. Class 39.

Stensgaard, W. L., and Associates, Inc., Chicago, Ill. Metal stands. 581,879, Nov. 3; Serial No. 632,453, published July 28, 1953. Class 32.

Sterling Drug Inc., New York, N. Y. Textile dyes. 582,077, Nov. 3; Serial No. 645,081, published Aug. 4, 1953. Class 6.

Stern Brothers, New York, N. Y. Shoe racks and hat racks. 581,974, Nov. 3; Serial No. 639,494, published July 28, 1953. Class 13.

Stern Brothers, New York, N. Y. Travel clocks. 581,975, Nov. 3; Serial No. 639,514, published June 23, 1953. Class 27.

Stern Brothers, New York, N. Y. Ceramic articles. 581,976, Nov. 3; Serial No. 639,516, published June 30, 1953. Class 30.

Stern Brothers, New York, N. Y. Drinking glasses and tumblers, luncheon sets, etc. 581,977, Nov. 3; Serial No. 639,518, published June 30, 1953. Class 33.

Stetson, John B., Company, Philadelphia, Pa. Purses, bill folds, wallets and ladies' handbags. 582,032, Nov. 3; Serial No. 642,176, published July 28, 1953. Class 3.

Stirton, Marguerite A., doing business under the name and style of Adele Apron Co., Oak Park, Ill. Aprons. 581,934, Nov. 3; Serial No. 636,576, published July 28, 1953. Class 39.

Stokes, Donald C., doing business as Stokes Institute of Hair Technology, Newark, N. J. Hair waving lotions. 581,742, Nov. 3; Serial No. 566,367, published July 14, 1953. Class 51.

Stokes Institute of Hair Technology: *See*—
Stokes, Donald C.

Storer Broadcasting Company, Birmingham, Mich. Radio and television broadcasting services. 582,092, Nov. 3; Serial No. 635,000, published Aug. 4, 1953. Class 104.

Storkline Furniture Corporation, Chicago, Ill. Infants' nursery, and juvenile furniture. 581,952, Nov. 3; Serial No. 638,168, published July 28, 1953. Class 32.

Stroub Products: *See*—
Stroub, Stephen N.

Stroub Products Co., Inc.; assignee: *See*—
Stroub, Stephen N.

Stroub, Stephen N., doing business as Stroub Products, assignor to Stroub Products Co., Inc., Totowa Borough, N. J. Finely-divided cementitious solid material. 581,869, Nov. 3; Serial No. 631,582, published Aug. 11, 1953. Class 12.

Style Supplies Manufacturers, Inc., New York, N. Y. Belt backing. 582,055, Nov. 3; Serial No. 643,004, published July 28, 1953. Class 40.

Summit Mills Corporation, New York, N. Y. Men's sport shirts. 581,813, Nov. 3; Serial No. 623,566, published June 30, 1953. Class 39.

Sun Chemical Corporation, Long Island City, N. Y. Printing inks. 581,972, Nov. 3; Serial No. 639,344, published Aug. 11, 1953. Class 11.

Sunray Oil Corporation: *See*—
Sunray Oil Corporation, The.

Sunray Oil Corporation, The, New York, N. Y., to Sunray Oil Corporation, Tulsa, Okla. Lubricating oils and greases. 306,377, renewed Sept. 19, 1953. O. G. Nov. 3. Class 15.

Supergrate Open Steel Flooring Co.: *See*—
Bostrom, Gustav J.

Supplee-Biddle-Steltz Company, Philadelphia, Pa. Catalogues. 582,052, Nov. 3; Serial No. 642,848, published July 28, 1953. Class 38.

Suzanne's Parisian Furs, Inc., Jamaica, N. Y. Fur coats. 581,867, Nov. 3; Serial No. 631,384, published July 28, 1953. Class 39.

Swanton, Harold R., Inc., Los Angeles, Calif. Precision miniature ball bearings. 581,811, Nov. 3; Serial No. 623,168, published July 21, 1953. Class 23.

Swartwout Company, The, Cleveland, Ohio. Pump control valves and governors, feed water valves, feed water regulating valves, etc. 581,805, Nov. 3; Serial No. 621,233, published July 28, 1953. Class 13.

Sweden Freezer Manufacturing Company, Seattle, Wash. Commercial ice-cream dispensing freezers. 581,928, Nov. 3; Serial No. 636,316, published Aug. 11, 1953. Class 31.

Tablax Company: *See*—
Weiner, Louis I.

Tailortex Blouse, Inc., Newburgh, N. Y. Women's, misses', and children's blouses, nightgowns, slips, etc. 582,016, Nov. 3; Serial No. 641,399, published July 28, 1953. Class 39.

Tailmadge Co., Inc., The, New York, N. Y. Rubber or plastic backed flock carpeting, rugs and mats. 581,780, Nov. 3; Serial No. 614,584, published Aug. 11, 1953. Class 50.

Tam O'Shanter, Inc., Manchester, N. H. Cotton slipper socks. 581,804, Nov. 3; Serial No. 621,177, published Aug. 19, 1952. Class 39.

Tanbro Fabrics Corp., New York, N. Y. Textile fabrics. 582,023, Nov. 3; Serial No. 641,989, published July 28, 1953. Class 42.

Techno Efficiency Council, Inc., Brooklyn, N. Y. Men's, women's, and children's footwear. 581,965, Nov. 3; Serial No. 638,742, published July 28, 1953. Class 39.

Tec-Imports, Van Nuys, Calif. Open-ended, ratchet, plug, torque and pipe wrenches. 581,989, Nov. 3; Serial No. 640,477, published July 28, 1953. Class 23.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,347, Nov. 28, 1911. Republished Nov. 3. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,417–19, Dec. 12, 1911. Republished Nov. 3. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,421, Dec. 12, 1911. Republished Nov. 3. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,425, Dec. 12, 1911. Republished Nov. 3. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,427–8, Dec. 12, 1911. Republished Nov. 3. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,431, Dec. 12, 1911. Republished Nov. 3. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., by The Texas Company, New York, N. Y. Lubricating oils. 84,433, Dec. 12, 1911. Republished Nov. 3. Class 15.

Thompson, Elmer O., Jr., doing business as Thompson's Fishing Tackle Co., Knoxville, Tenn. Artificial lures. 582,078, Nov. 3; Serial No. 645,442, published Aug. 4, 1953. Class 22.

Thompson's Fishing Tackle Co.: *See*—
Thompson, Elmer O., Jr.

Times-Picayune Publishing Company, The, New Orleans, La. Newspaper magazine section. 581,761, Nov. 3; Serial No. 599,463, published July 28, 1953. Class 38.

Toni Company, The: *See*—
Gillette Company, The.

Tonkin Distributing Co., doing business as Columbia Distilling Co., San Francisco, Calif., by A. M. Penrose & Co., Inc., Philadelphia, Pa. Whiskey. 329,311, Oct. 22, 1935. Republished Nov. 3. Class 49.

Tornek, Allen V., doing business as Allen V. Tornek Co., New York, N. Y. Watch bearing plates. 582,008, Nov. 3; Serial No. 640,977, published June 9, 1953. Class 27.

Tornek, Allen V., Co.: *See*—
Tornek, Allen V.

Treo Company, Inc., Jamaica, N. Y. Corsets, girdles, and foundation garments. 581,979, Nov. 3; Serial No. 639,675, published July 28, 1953. Class 39.

Trerice, H. O., Co.: *See*—
Trerice, Howard O.

Trerice, Howard O., doing business as H. O. Trerice Co., Detroit, Mich. Filters; filter casings; and stone filters. 581,843, Nov. 3; Serial No. 628,014, published June 9, 1953. Class 31.

Tri-State Plastic Molding Co., Inc., Henderson, Ky. Toy building blocks. 582,126, Nov. 3; Serial No. 628,309. Class 22.

"21" Brands, Inc., New York, N. Y. Rye whiskey. 338,008, Aug. 25, 1936. Republished Nov. 3. Class 49.

Union Metal Manufacturing Company, The, Canton, Ohio. Vertical multi-tray rotary stand. 581,882, Nov. 3; Serial No. 632,805, published July 28, 1953. Class 32.

Union Sand and Supply Corporation, The, Painesville, Ohio. Prepared lightweight concrete building blocks. 581,762, Nov. 3; Serial No. 599,668, published July 28, 1953. Class 12.

United Biscuit Company of America, Chicago, Ill. Cookies and crackers. 581,887, Nov. 3; Serial No. 633,185, published Aug. 4, 1953. Class 46.

United Drug Company, Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Shampoo-paste, hair tonic, depilatory, etc. 93,250, re-renewed Aug. 26, 1953. O. G. Nov. 3. Class 51.

United Drug Company, Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Tooth, nail, hair, clothes, hat, complexion, bath, eyebrow, hand, lather, military, and, shampoo brushes. 305,464, renewed Aug 15, 1953. O. G. Nov. 3. Class 29.

United Elastic Corporation, Easthampton, Mass. Narrow elastic braids. 581,891, Nov. 3; Serial No. 633,800, published July 14, 1953. Class 40.

United Elastic Corporation, Easthampton, Mass. Woven elastic webbing. 581,901, Nov. 3; Serial No. 634,387, published July 28, 1953. Class 42.

U. S. Marine Chemicals Co.: *See*—
Mortensen, Carl.

United States Plywood Corporation, New York, N. Y. Plastic laminates. 581,969, Nov. 3; Serial No. 638,987, published Aug. 11, 1953. Class 12.

United States Rubber Company, New York, N. Y. Mattress cores. 581,920, Nov. 3; Serial No. 635,796, published July 28, 1953. Class 32.

United States Rubber Company, New York, N. Y. Molded or dipped women's gaiters. 581,992, Nov. 3; Serial No. 640,536, published July 28, 1953. Class 39.

United States Soft Water Company: *See*—
Harting, Wesley A.

Universal Form Clamp Co., Chicago, Ill. Concrete construction forms and parts for the forms. 581,845, Nov. 3; Serial No. 628,376, published July 7, 1953. Class 12.

Upressit Metal Cap Corporation, Wilmington, Del. Closures for tin and glass containers. 581,815–16, Nov. 3; Serial Nos. 623,622–3, published Aug. 4, 1953. Class 50.

Valley Paper Company: *See*—
Carew Manufacturing Company.
Hampshire Paper Company.

Van Brode Milling Co., Inc., Clinton, Mass. Household deodorants. 582,063, Nov. 3; Serial No. 643,574, published Aug. 4, 1953. Class 6.

Velvet Service Company: *See*—
H. L. G. Company.

Ventre, John, Jr., doing business under the name and style of Ventre Packing Co., Syracuse, N. Y. Bottled salad dressing. 582,024, Nov. 3; Serial No. 641,996, published Aug. 4, 1953. Class 46.

Ventre Packing Co.: *See*—
Ventre, John, Jr.

Verflex Co., Inc., The, Carlstadt, N. J. Silicone coating solution. 581,955, Nov. 3; Serial No. 638,277, published Aug. 11, 1953. Class 16.

Verflex Co., Inc., The, Carlstadt, N. J. Paint. 581,956, Nov. 3; Serial No. 638,278, published Aug. 11, 1953. Class 16.

Victor Manufacturing & Gasket Co., Chicago, Ill. Gaskets. 582,074, Nov. 3; Serial No. 644,939, published Aug. 4, 1953. Class 35.

Vineland Laboratories, Inc., Landis Township, Cumberland County, N. J. Ingredient for rodenticides. 581,836, Nov. 3; Serial No. 626,353, published Aug. 4, 1953. Class 6.

Vineland Poultry Laboratories, Landis Township, Cumberland County, N. J. Potassium permanganate. 581,856, Nov. 3; Serial No. 629,922, published Aug. 11, 1953. Class 6.

Vinti, Carlo, New York, N. Y. Advertising the goods and services of sponsors. 582,096, Nov. 3; Serial No. 638,676, published Aug. 11, 1953. Class 101.

Vitapix Corporation, Dover, Del., and Hollywood, Calif. Motion picture films. 581,838, Nov. 3; Serial No. 626,837, published June 2, 1953. Class 26.

Vocal Tones: *See*—
Silvers, Betty E.

Vogarell Products Company: *See*—
Lewis, Rosemarie.

Vouplé Company, to E. Fougera & Co., Inc., New York, N. Y. Foot-powder. 94,035, re-renewed Oct. 28, 1953. O. G. Nov. 3, 1953. Class 51.

Vox Productions Inc., New York, N. Y. Grooved phonograph records. 581,930, Nov. 3; Serial No. 636,445, published Aug. 4, 1953. Class 36.

Waterbury Companies Inc., Waterbury, Conn. Self cleaning combs. 582,034, Nov. 3; Serial No. 642,330, published Aug. 11, 1953. Class 40.

Wayne Knitting Mills, Fort Wayne, Ind. Women's hosiery. 582,118, Nov. 3; Serial No. 626,280. Class 39.

Weatherwood Manufacturing Co., Orange, Tex. Furniture. 582,025, Nov. 3; Serial No. 642,057, published July 28, 1953. Class 32.

Weaver Manufacturing Company, Springfield, Ill. Automobile headlight testers. 381,250, Sept. 17, 1940. Republished Nov. 3, 1953. Class 26.

Weaver Manufacturing Company, Springfield, Ill. Automobile headlight testers. 381,264, Sept. 17, 1940. Republished Nov. 3, 1953. Class 26.

Weiner, J. L., Co., St. Louis, Mo. Child's combination chair and desk unit. 582,043, Nov. 3; Serial No. 642,585, published Aug. 11, 1953. Class 32.

Weiner, Louis I., doing business under the firm name and style Tablax Company, New York, N. Y. Vaginal antiseptics and antiseptic compounds. 581,893, Nov. 3; Serial No. 634,021, published July 7, 1953. Class 18.

Weiss, Frances L., doing business under the professional name of Fran Lee, Rye, N. Y. Information service rendered to women. 582,099, Nov. 3; Serial No. 642,788, published Aug. 4, 1953. Class 107.

Wembley, Inc., New Orleans, La. Men's necktles and scarfs. 581,937, Nov. 3; Serial No. 636,620, published July 28, 1953. Class 39.

Whirla-Whip, Inc., assignee: *See*—
Reed, Claude A.

White, David, Company, Milwaukee, Wis. Photographic equipment and accessories for stereoscopic cameras, photographic equipment and accessories for stereoscopic projectors, etc. 581,800, Nov. 3; Serial No. 619,483, published June 9, 1953. Class 26.

White, Gerald E.: *See*—
H. L. G. Company.

Whitman, E. G., & Co., Inc., Philadelphia, Pa. Candy. 582,124, Nov. 3; Serial No. 628,238. Class 46.

Whitman, E. G. & Co., Inc., Philadelphia, Pa. Candy. 582,125, Nov. 3; Serial No. 628,240. Class 46.

Will & Baumer Candle Co., Inc., Syracuse, N. Y. Wax candles. 581,798, Nov. 3; Serial No. 618,948, published July 7, 1953. Class 15.

Willys Motors, Inc., assignee: *See*—
Willys-Overland Motors, Inc.

Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Automotive vehicles and structural parts thereof. 581,735, Nov. 3; Serial No. 487,343, published Aug. 4, 1953. Class 19.

Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Automobiles and structural parts thereof. 581,855, Nov. 3; Serial No. 629,875, published Aug. 4, 1953. Class 19.

Wilson Rubber Company, The, Canton, Ohio. Household and industrial gloves. 581,791, Nov. 3; Serial No. 617,566, published July 28, 1953. Class 39.

Wilson Rubber Company, The, Canton, Ohio. Rubber and plastic industrial and household gloves. 581,792, Nov. 3; Serial No. 617,567, published Aug. 4, 1953. Class 39.

Wilson Rubber Company, The, Canton, Ohio. Household and industrial gloves. 581,793, Nov. 3; Serial No. 617,568, published July 28, 1953. Class 39.

Wittek Manufacturing Co., Chicago, Ill. Hose clamps. 582,006, Nov. 3; Serial No. 640,877, published Aug. 11, 1953. Class 13.

Wolter, Hubert, doing business as Wolter & Sons, Chicago, Ill. Forgings in the form of flower stands, plant stands, vase stands, etc. 581,752, Nov. 3; Serial No. 582,454, published July 28, 1953. Class 32.

Wolter & Sons: *See*—
Wolter, Hubert.

Woodrow, Jack, Indianapolis, Ind. Metal traps and metal baffle traps. 581,929, Nov. 3; Serial No. 636,396, published July 7, 1953. Class 12.

Zalkind, Joseph, New York, N. Y. Office machines. 581,880, Nov. 3; Serial No. 632,544, published July 14, 1953. Class 23.

Zanol Products: *See*—
Royal Home Products, Inc.

Zanolite Company, Chicago, Ill. Construction insulation compound. 581,847, Nov. 3; Serial No. 623,696, published July 28, 1953. Class 12.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Seed, Grass. Pedigreed Seed Co. 581,767, Nov. 3; Serial No. 607,350, published Feb. 10, 1953.

Wood pulp. Gottesman & Company, Incorporated. 306,978–9, renewed Oct. 10, 1953. O. G. Nov. 3.

Wood pulp. Gottesman & Company, Incorporated. 306,982, renewed Oct. 10, 1953. O. G. Nov. 3.

Wood pulp. Gottesman & Company, Incorporated. 307,6-9, renewed Oct. 31, 1953. O. G. Nov. 3.

Wood pulp. Gottesman & Company, Incorporated. 307,661, renewed Oct. 31, 1953. O. G. Nov. 3.

CLASS 2

Boxes and cartons, Pasteboard. N. November. 581,786, Nov. 3; Serial No. 615,787, published Aug. 11, 1953.

Urns, Bronze cinerary. Gorham Manufacturing Company. 309,752, renewed Jan. 30, 1954. O. G. Nov. 3.

CLASS 3

Handbags, Ladies'. M. Herrera. 582,129, Nov. 3; Serial No. 630,495.

Purses, bill folds, wallets, and ladies' handbags. John B. Stetson Company. 582,032, Nov. 3; Serial No. 642,176, published July 28, 1953.

Suitcases, Wardrobe. Hartmann Trunk Company. 231,081, Aug. 9, 1927. Republished Nov. 3.

Suitcases, Wardrobe. Hartmann Trunk Company. 236,270, Dec. 6, 1927. Republished Nov. 3.

CLASS 4

Abrasives, Coated. Minnesota Mining & Manufacturing Company. 581,945, Nov. 3; Serial No. 637,664, published Aug. 4, 1953.

Cleaning and polishing compounds. De Goss Laboratories. 581,797, Nov. 3; Serial No. 618,846, published Aug. 4, 1953.

Preparations for cleaning and polishing glass. Reckitts (New York) Ltd. 305,984, renewed Aug. 29, 1953. O. G. Nov. 3.

Rust remover having an abrasive ingredient. W. G. Heltman. 581,824, Nov. 3; Serial No. 625,011, published Aug. 4, 1953.

Wax, Self-polishing floor, and paste floor wax. Bennett Glass & Paint Company. 306,793, renewed Sept. 26, 1953. O. G. Nov. 3.

CLASS 6

Allethrin-synergist combinations for use as insecticides. S. B. Penick & Company. 582,066, Nov. 3; Serial No. 644,446, published Aug. 4, 1953.

Cellulose ethers and products derived therefrom. Kalle & Co. Aktiengesellschaft. 340,036, Oct. 27, 1936. Republished Nov. 3.

Desiccant for refrigerants. Ansul Chemical Company. 582,075, Nov. 3; Serial No. 644,950, published Aug. 4, 1953.

Household deodorants. Van Brode Milling Co., Inc. 582,063, Nov. 3; Serial No. 643,574, published Aug. 4, 1953.

Ingredient for rodenticides. Vineland Laboratories, Inc. 581,836, Nov. 3; Serial No. 626,353, published Aug. 4, 1953.

Insect repellent. Bridgeport Brass Company. 582,073, Nov. 3; Serial No. 644,826, published Aug. 4, 1953.
Insecticidal formulations. S. B. Penick & Company. 582,067, Nov. 3; Serial No. 644,447, published Aug. 4, 1953.
Insecticides. Chapman Chemical Company. 582,071, Nov. 3; Serial No. 644,733, published Aug. 4, 1953.
Insecticides. Residex Corporation. 581,885, Nov. 3; Serial No. 633,074, published Aug. 4, 1953.
Insecticides, fungicides, germicides, etc. The Dow Chemical Company. 308,845, renewed Dec. 26, 1953. O. G. Nov. 3.
Leak sealer, Radiator, rust preventative and rust inhibitor. F. D. Barton. 582,070, Nov. 3; Serial No. 644,714, published Aug. 4, 1953.
Lighter fluid, Cigar. Skelly Oil Company. 308,939, renewed Dec. 26, 1953. O. G. Nov. 3.
Metal surface treating compositions. R. E. Olson. 581,958, Nov. 3; Serial No. 638,309, published Aug. 11, 1953.
Mixture of synthetic odoriferous or aromatic chemicals. The Ontario Paper Company Limited. 582,076, Nov. 3; Serial No. 645,055, published Aug. 4, 1953.
Oxygen, hydrogen, acetylene, etc. Southern Oxygen Company. 581,968, Nov. 3; Serial No. 638,924, published Aug. 4, 1953.
Plasticizers, esters, petroleum sulphonates, etc. Morton-Withers Chemical Company. 581,991, Nov. 3; Serial No. 640,522, published Aug. 4, 1953.
Potassium permanganate. Vineland Poultry Laboratories. 581,856, Nov. 3; Serial No. 629,922, published Aug. 11, 1953.
Preparation for exterminating moles. The C. B. Dolge Company. 582,079, Nov. 3; Serial No. 645,758, published Aug. 4, 1953.
Preparation for preserving wood. Lyster Chemical Co. 93,452, re-renewed Sept. 16, 1953. O. G. Nov. 3.
Printing gum; sizing compound; and textile and paper finishing compounds. Polymer Industries Inc. 582,072, Nov. 3; Serial No. 644,787, published Aug. 4, 1953.
Tall oil fatty acid. Arizona Chemical Company. 581,964, Nov. 3; Serial No. 638,683, published Aug. 11, 1953.
Textile dyes. Sterling Drug Inc. 582,077, Nov. 3; Serial No. 645,081, published Aug. 4, 1953.

CLASS 10

Mineral body of porous, cellular, finely-divided, inert, sponge-like material for conditioning the soil. American Bildrok Company. 582,056, Nov. 3; Serial No. 643,063, published Aug. 11, 1953.

CLASS 11

Ink-filled cartridges for writing pens. International Business Machines Corporation. 581,774, Nov. 3; Serial No. 611,702, published Aug. 11, 1953.
Inks, Printing. Sun Chemical Corporation. 581,972, Nov. 3; Serial No. 639,344, published Aug. 11, 1953.
Inks, Printing and lithographic. Bowers Printing Ink Company. 581,830, Nov. 3; Serial No. 625,843, published Aug. 11, 1953.

CLASS 12

Asphalt, asphalt binders, asphaltic emulsions and compounds, etc. American Bitumuls Company. 305,285, renewed Aug. 8, 1953. O. G. Nov. 3.
Blast furnace blocks, foundation blocks for buildings, blocks for bridge abutments, etc. Bar-Gar Mineral Plastic Products Co., Inc. 581,826, Nov. 3; Serial No. 625,321, published Aug. 11, 1953.
Board, Insulation. The Flintkote Company. 581,971, Nov. 3; Serial No. 639,218, published Aug. 11, 1953.
Building blocks and bricks, Split concrete. L. H. Schlough. 581,932, Nov. 3; Serial No. 636,541, published July 7, 1953.
Cementitious solid material, Finely-divided. S. N. Stroub. 581,869, Nov. 3; Serial No. 631,582, published Aug. 11, 1953.
Concrete building blocks, Prepared lightweight. The Union Sand and Supply Corporation. 581,762, Nov. 3; Serial No. 599,668, published July 28, 1953.
Concrete construction, forms and parts for the forms. Universal Form Clamp Co. 581,845, Nov. 3; Serial No. 628,376, published July 7, 1953.
Door units, Packaged. Bond-Howell Lumber Company. 581,917, Nov. 3; Serial No. 635,681, published July 7, 1953.
Doors and windows. Season-All Window Corp. 581,931, Nov. 3; Serial No. 636,500, published Aug. 4, 1953.
Expanded perlite for use as insulating material, etc. Great Lakes Carbon Corporation. 581,781, Nov. 3; Serial No. 614,624, published July 7, 1953.
Fire proof moldable substance and for construction blocks and sheets. H. J. Earnest. 581,755, Nov. 3; Serial No. 593,337, published July 28, 1953.
Flooring, Open-type. G. J. Bostrom. 581,740, Nov. 3; Serial No. 557,724, published July 7, 1953.
Insulation compound, Construction. Zonolite Company. 581,817, Nov. 3; Serial No. 623,696, published July 28, 1953.
Insulation material, Metallic. Reflective Insulation Company. 581,768, Nov. 3; Serial No. 607,398, published July 7, 1953.
Insulation material, Thermal. Johns-Manville Corporation. 306,770, renewed Sept. 26, 1953. O. G. Nov. 3.
Lumber, millwork, and fabricated lumber. Herman H. Hettler Lumber Co. 581,788, Nov. 3; Serial No. 616,319, published July 28, 1953.
Lumber, millwork, wooden flooring, etc. Hixon-Peterson Lumber Company. 581,926, Nov. 3; Serial No. 636,293, published July 7, 1953.
Metal traps and metal baffle traps. J. Woodrow. 581,929, Nov. 3; Serial No. 636,396, published July 7, 1953.
Mixture of sand, cement waterproofing agent, hardener, and mineral coloring to be used in making artificial building stone. Emco Cement Products, Inc. 581,925, Nov. 3; Serial No. 636,225, published July 7, 1953.
Plastic laminates. United States Plywood Corporation. 581,969, Nov. 3; Serial No. 638,987, published Aug. 11, 1953.
Tapes for wrap-around application to pipes or the like, Corrosion inhibiting impregnated fabric. Pipeline Protection Company. 581,744–5, Nov. 3; Serial Nos. 570,883–4, published July 28, 1953.
Thermal insulation. Johns-Manville Corporation. 306,080, renewed Sept. 5, 1953. O. G. Nov. 3.
Tiles, Ceramic wall, floor, and ceiling and ceramic tiles. American Encaustic Tiling Company, Ltd. 223,369, Feb. 1, 1927. Republished Nov. 3.
Tiles, Concrete, concrete plates and concrete curbstones, concrete blocks, etc. N. V. Betonfabriek De Meteoor, De Steeg. 306,213, renewed Sept. 12, 1953. O. G. Nov. 3.
Windows, Storm, and storm doors. The Little-Beaver Co. 581,973, Nov. 3; Serial No. 639,481, published Aug. 11, 1953.
Windows, Storm, storm doors, window screens, etc. A. J. Kiefer. 581,808, Nov. 3; Serial No. 622,262, published July 7, 1953.

CLASS 13

Bag or carton filler, Food. Sears, Roebuck and Co. 581,995, Nov. 3; Serial No. 640,585, published Aug. 11, 1953.
Bellows. Breeze Corporations, Inc. 581,834, Nov. 3; Serial No. 626,299, published Aug. 11, 1953.
Cargo securing devices. Eastern Rotorcraft Corporation. 581,828, Nov. 3; Serial No. 625,666, published Aug. 11, 1953.
Closet seats and closet seat bumpers. Kohler Co. 309,081, renewed Jan. 2, 1954. O. G. Nov. 3.
Dowel pins, Metal, self-locking nuts, internal wrenching nuts, etc. Standard Pressed Steel Co. 581,922, Nov. 3; Serial No. 635,936, published Aug. 11, 1953.
Gates and valves and parts thereof. Bardco Manufacturing & Sales Company. 581,883, Nov. 3; Serial No. 632,822, published Aug. 11, 1953.
Hose clamps. Wittek Manufacturing Co. 582,006, Nov. 3; Serial No. 640,877, published Aug. 11, 1953.
Locking socket. Aerosmith, Inc. 582,020, Nov. 3; Serial No. 641,591, published Aug. 11, 1953.
Metal hollow ware ovens. The Everedy Company. 581,748, Nov. 3; Serial No. 580,053, published Jan 8, 1952.
Metal pipes, metal pipe couplings, and gas valves. Gas Material Supplies, Inc. 581,954, Nov. 3; Serial No. 638,256, published Aug. 11, 1953.
Racks, Shoe, and hat racks. Stern Brothers. 581,974, Nov. 3; Serial No. 639,494, published July 28, 1953.
Screw machine products, Headed. Aluminum Company of America. 305,685, renewed Aug. 22, 1953. O. G. Nov. 3.
Staples. Senco Products, Inc. 582,027, Nov. 3; Serial No. 642,092, published July 28, 1953.
Valve units, Single actuator multiple. George W. Dahl Company, Inc. 581,993, Nov. 3; Serial No. 640,550, published July 28, 1953.
Valves, Air pressure regulating. The Electric Sprayit Company. 581,857, Nov. 3; Serial No. 629,995, published Aug. 4, 1953.
Valves and cocks, Metal. Robertshaw-Fulton Controls Company. 581,823, Nov. 3; Serial No. 624,850, published July 28, 1953.
Valves, Flush. Speakman Company. 308,565, renewed Dec. 12, 1953. O. G. Nov. 3.
Valves; Piston type directional, flow control, speed control and pressure reducing valves; etc. Keelavite Rotary Pumps & Motors Limited. 582,041, Nov. 3; Serial No. 642,559, published Aug. 4, 1953.
Valves, Pressure responsive automatic cut-off. Handley Brown Heater Company. 581,872, Nov. 3; Serial No. 631,926, published Aug. 11, 1953.
Valves, Pump control, and governors, feed water valves, feed water regulating valves, etc. The Swartwout Company. 581,805, Nov. 3; Serial No. 621,233, published July 28, 1953.

CLASS 14

Foundry shrinkage control elements—namely metal inserts. The Canton Chaplet and Manufacturing Company. 581,946, Nov. 3; Serial No. 637,700, published Aug. 11, 1953.
Metals, Unwrought and partly wrought. Pass, Capper & Son Limited. 581,943, Nov. 3; Serial No. 637,300, published Aug. 4, 1953.
Steel. The Carpenter Steel Company. 581,799, Nov. 3; Serial No. 619,228, published Aug. 11, 1953.

Wire skid control coils. Penetred Corporation. 581,837, Nov. 3; Serial No. 626,469, published Aug. 11, 1953.

CLASS 15

Candles, Wax. Will & Baumer Candle Co., Inc. 581,798, Nov. 3; Serial No. 618,948, published July 7, 1953.
Chemical additives to fuel oil and lubricating oil. C. Mortensen. 582,012, Nov. 3; Serial No. 641,200, published July 21, 1953.
Fuel additive, Engine. B. S. Price. 581,959, Nov. 3; Serial No. 638,312, published July 28, 1953.
Gasoline and lubricating oil. Republic Oil Refining Company. 582,042, Nov. 3; Serial No. 642,571, published July 28, 1953.
Oil, Petroleum-base lubricating. The Standard Oil Company. 581,939, Nov. 3; Serial No. 636,749, published Apr. 21, 1953.
Oils and greases, Lubricating. The Sunray Oil Corporation. 306,377, renewed Sept. 19, 1953. O. G. Nov. 3.
Oils, Lubricating. Ingersoll-Rand Company. 581,776, Nov. 3; Serial No. 612,497, published July 7, 1953.
Oils, Lubricating. The Texas Company. 84,347, Nov. 28, 1911. Republished Nov. 3.
Oils, Lubricating. The Texas Company. 84,417–19, Dec. 12, 1911. Republished Nov. 3.
Oils, Lubricating. The Texas Company. 84,421, Dec. 12, 1911. Republished Nov. 3.
Oils, Lubricating. The Texas Company. 84,425, Dec. 12, 1911. Republished Nov. 3.
Oils, Lubricating. The Texas Company. 84,427–8, Dec. 12, 1911. Republished Nov. 3.
Oils, Lubricating. The Texas Company. 84,431, Dec. 12, 1911. Republished Nov. 3.
Oils, Lubricating. The Texas Company. 84,433, Dec. 12, 1911. Republished Nov. 3.

CLASS 16

Coating material, Highway marker. Prismo Safety Corporation. 581,756, Nov. 3; Serial No. 595,280, published Aug. 11, 1953.
Coating, Plastic varnish-like, rust preventive coating material, etc. The Ronor Corporation. 582,106, Nov. 3; Serial No. 584,736.
Coating solution, Silicone. The Verflex Co., Inc. 581,955, Nov. 3; Serial No. 638,277, published Aug. 11, 1953.
Coatings, Sealer, primer coatings, roof coatings, etc. Benjamin Foster Company. 582,108, Nov. 3; Serial No. 598,528.
Paint. The Verflex Co., Inc. 581,956, Nov. 3; Serial No. 638,278, published Aug. 11, 1953.
Paint or enamel, Liquid. M. J. Merkin Paint Co., Inc. 309,590, renewed Jan. 23, 1954. O. G. Nov. 3.
Paint, Ready-mixed, varnishes, wood stains, etc. Duron Paint Manufacturing Company. 581,794, Nov. 3; Serial No. 617,653, published Aug. 4, 1953.
Paint, Rubber base. M. Ewing Fox Co., Inc. 581,983, Nov. 3; Serial No. 639,927, published Aug. 11, 1953.
Paints. The Debevoise Company. 581,924, Nov. 3; Serial No. 636,120, published Aug. 11, 1953.
Paints, Mixed. Davies & Meacham. 91,464, re-renewed May 6, 1953. O. G. Nov. 3.
Paints, Ready-mixed, varnishes and paint enamels. H. J. Marks. 582,104, Nov. 3; Serial No. 582,972.
Paints, varnish, stains, and shellacs. Cook & Dunn Paint Corp. 581,899, Nov. 3; Serial No. 634,300, published Aug. 4, 1953.
Wax for skis. R. Smith-Johannsen. 582,046, Nov. 3; Serial No. 642,657, published Aug. 4, 1953.

CLASS 18

Analgesic preparation. American Ferment Co., Inc. 582,044, Nov. 3; Serial No. 642,593, published Aug. 11, 1953.
Enema powder. R. Lewis. 430,992, July 1, 1947. Republished Nov. 3.
Medicated chewing gum. American Chicle Company. 581,949, Nov. 3; Serial No. 637,980, published July 7, 1953.
Medicinal tablets. J. Katlen. 581,947, Nov. 3; Serial No. 637,710, published July 7, 1953.
Medicinal tablets. Riker Laboratories, Inc. 582,007, Nov. 3; Serial No. 640,964, published July 7, 1953.
Solution for the temporary relief of minor simple earache. S. Lovely. 581,865, Nov. 3; Serial No. 631,243, published July 7, 1953.
Tonic laxative medicine. H. D. Hart. 305,629, renewed Aug. 22, 1953. O. G. Nov. 3.
Vaginal antiseptics and antiseptic compounds. L. I. Weiner. 581,893, Nov. 3; Serial No. 634,021, published July 7, 1953.

CLASS 19

Automobile heaters. Hudson Motor Car Company. 582,084, Nov. 3; Serial No. 647,293, published Aug. 11, 1953.
Automobile heaters and parts and accessories therefor. E. L. Schofield Incorporated. 582,115, Nov. 3; Serial No. 623,212.
Automobile seat covers. Rayco Mfg. Co. 582,068, Nov. 3; Serial No. 644,516, published Aug. 4, 1953.
Automobiles and structural parts thereof. Willys-Overland Motors, Inc. 581,855, Nov. 3; Serial No. 629,875, published Aug. 4, 1953.
Bicycle frames. The Huffman Manufacturing Company. 581,760, Nov. 3; Serial No. 599,435, published Aug. 4, 1953.
Bicycles, motor - bicycles, tricycles, etc. The Raleigh Cycle Co. Limited. 581,759, Nov. 3; Serial No. 599,018, published Aug. 4, 1953.
Bicycles, motorcycles, motor-bicycles, etc. Fichtel & Sachs Aktiengesellschaft. 581,822, Nov. 3; Serial No. 624,716, published Aug. 4, 1953.
Carts, Portable, packing plant trucks, hand trucks, etc. Standard Pressed Steel Co. 581,923, Nov. 3; Serial No. 635,937, published Aug. 11, 1953.
Seats for use in automobiles, Infants' portable. Rose-Derry Company. 581,966, Nov. 3; Serial No. 638,811, published Aug. 4, 1953.
Vehicles and structural parts thereof, Automotive. Willys-Overland Motors, Inc. 581,735, Nov. 3; Serial No. 487,343, published Aug. 4, 1953.

CLASS 21

Batteries and spark plugs. Skelly Oil Company. 308,756, renewed Dec. 19, 1953. O. G. Nov. 3.
Batteries etc., Electric storage. Marshall-Wells Company. 557,419, June 5, 1951. Canceled Sept. 25, 1953. O. G. Nov. 3.
Electric wiring devices and parts thereof. Pass & Seymour, Inc. 581,889, Nov. 3; Serial No. 633,374, published July 21, 1953.
Electrical insulating compound. The Star Porcelain Company. 308,615–16, renewed Dec. 12, 1953. O. G. Nov. 3.
Electrical outlet boxes. A. J. Iovieno. 582,017, Nov. 3; Serial No. 641,450, published July 14, 1953.
Electrically heated serving tables. Lakeside Manufacturing Company. 582,137, Nov. 3; Serial No. 635,599.
Fans, Electric. Kord Manufacturing Co., Inc. 582,015, Nov. 3; Serial No. 641,383, published July 14, 1953.
Fixed carbon resistors, non-conductive coil forms, and iron core coil forms. Speer Carbon Company. 582,011, Nov. 3; Serial No. 641,156, published July 14, 1953.
Tubes, Radio. Noah's Ark Auto Accessories, Inc. 302,895, renewed May 2, 1953. O. G. Nov. 3.

CLASS 22

Artificial bait. The Enterprise Manufacturing Company. 582,081, Nov. 3; Serial No. 646,059, published Aug. 4, 1953.
Artificial lures. E. O. Thompson, Jr. 582,078, Nov. 3; Serial No. 645,442, published Aug. 4, 1953.
Balls, Golf. Davega-City Radio Stores, Inc. 304,294, renewed June 27, 1953. O. G. Nov. 3.
Baseballs, basketballs, bats, softballs, etc. The Military Service Company. 581,757, Nov. 3; Serial No. 597,451, published Aug. 4, 1953.
Dolls. Alexander-Kins, Inc. 582,083, Nov. 3; Serial No. 646,343, published Aug. 11, 1953.
Dolls. K. R. Doll Corporation. 581,903, Nov. 3; Serial No. 634,472, published Aug. 4, 1953.
Doll's tea set. The Richardson Company. 309,168, renewed Jan. 2, 1954. O. G. Nov. 3.
Fish lures, Artificial. E. S. Scanlan. 581,908, Nov. 3; Serial No. 634,995, published Aug. 4, 1953.
Fishing reels. Shakespeare Company. 582,119, Nov. 3; Serial No. 626,426.
Fishing tackle. Hurricane Manufacturing Company. 582,061, Nov. 3; Serial No. 643,325, published Aug. 4, 1953.
Game, Board. Milton Bradley Company. 582,082, Nov. 3; Serial No. 646,261, published Aug. 4, 1953.
Game, Board. Selchow & Righter Company. 581,894, Nov. 3; Serial No. 634,166, published Aug. 11, 1953.
Game, Board. Selchow & Righter Company. 581,909, Nov. 3; Serial No. 635,062, published Aug. 4, 1953.
Game, Educational card. I. Brambier. 581,871, Nov. 3; Serial No. 631,650, published Aug. 4, 1953.
Game, Jigsaw puzzle. Jaymar Specialty Company. 582,064, Nov. 3; Serial No. 643,593, published Aug. 4, 1953.
Game, Pin ball. N. H. Sanger. 581,864, Nov. 3; Serial No. 631,067, published Aug. 4, 1953.
Game, Scoreboard. Kurland Enterprises, Inc. 581,877, Nov. 3; Serial No. 632,378, published Aug. 4, 1953.
Games, Marble. H. G. Finch. 581,913, Nov. 3; Serial No. 635,359, published Aug. 4, 1953.
Games, Racing. M. J. Colleary. 582,053, Nov. 3; Serial No. 642,947, published Aug. 11, 1953.
Metal clips for attaching fish hooks and the like to fishing lines. J. A. Kaszeta. 582,111, Nov. 3; Serial No. 611,479.
Punching bag. J. J. Golomb. 582,113, Nov. 3; Serial No. 616,152.
Skates, Roller, and handball gloves. Davega-City Radio Stores, Inc. 304,648, renewed July 11, 1953. O. G. Nov. 3.
Toy building blocks. Tri-State Plastic Molding Co., Inc. 582,126, Nov. 3; Serial No. 628,309.
Toy furniture. Bullick Brothers. 581,769, Nov. 3; Serial No. 607,700, published Aug. 11, 1953.
Toy pistols. The Kilgore Manufacturing Company. 316,036, Aug. 14, 1934. Republished Nov. 3.

CLASS 23

Ball bearings, Precision miniature. Harold R. Swanton, Inc. 581,811, Nov. 3; Serial No. 623,168, published July 21, 1953.
Belt splicing unitary apparatus. Econaway Manufacturing Company. 581,789, Nov. 3; Serial No. 616,764, published July 14, 1953.
Cookie-cutting molds, Plastic. H. R. Maier. 582,019, Nov. 3; Serial No. 641,557, published July 21, 1953.
Engine lathes and radial drills. The American Tool Works Co. 582,069, Nov. 3; Serial No. 644,709, published July 14, 1953.
Flatware. Imperial Knife Company, Inc. 581,839, Nov. 3; Serial No. 627,134, published Nov. 18, 1952.
Gear cutting machines, gear lapping machines, gear burnishing machines, etc. The Fellows Gear Shaper Company. 581,736, Nov. 3; Serial No. 490,374, published June 2, 1953.
Governors for internal combustion engines. King-Seeley Corporation. 581,753, Nov. 3; Serial No. 585,534, published June 2, 1953.
Grinding wheel dressers, Manually or electrically driven. Hoglund Engineering and Manufacturing Company, Inc. 581,772, Nov. 3; Serial No. 610,271, published July 21, 1953.
Knitting machine parts. John A. Eberly, Inc. 581,754, Nov. 3; Serial No. 591,919, published July 14, 1953.
Lawn mowers, Power. R P M Manufacturing Company. 581,980, Nov. 3; Serial No. 639,717, published June 2, 1953.
Machines for applying bindings to stacks of paper or the like. Plastic Binding Corporation. 345,832, May 11, 1937. Republished Nov. 3.
Mechanical water softeners. H. L. G. Company. 303,761, renewed June 6, 1953. O. G. Nov. 3.
Mineral crushing and screening plant. Aerofall Mills Limited. 581,847, Nov. 3; Serial No. 629,070, published July 28, 1953.
Office machines. J. Zalkind. 581,880, Nov. 3; Serial No. 632,544, published July 14, 1953.
Pepper mills, Domestic table. Park Green & Company Limited. 581,841, Nov. 3; Serial No. 627,596, published July 28, 1953.
Poultry eviscerating equipment. Gordon Johnson Company. 581,881, Nov. 3; Serial No. 632,614, published July 21, 1953.
Pumps, Positive-displacement rotary liquid. Marine Products Company. 581,737, Nov. 3; Serial No. 547,860, published July 21, 1953.
Sewing machines. Eastern-Columbia, Inc. 581,770, Nov. 3; Serial No. 608,243, published July 21, 1953.
Sprayers, Power-operated. H. D. Hudson Manufacturing Company. 581,876, Nov. 3; Serial No. 632,302, published July 21, 1953.
Spraying machines, Weed and pest. Essick Manufacturing Company. 582,102–3, Nov. 3; Serial Nos. 538,258–9.
Staplers and pneumatic tackers. Senco Products, Inc. 582,028, Nov. 3; Serial No. 642,093, published July 28, 1953.
Stapling machines, staplers, tacking hammers, etc. Skrebba-Werk, Kommanditgesellschaft. 581,812, Nov. 3; Serial No. 623,524, published July 28, 1953.
Twist drills, milling cutters, and reamers. American Machine Products Co. 166,786, Apr. 17, 1923. Republished Nov. 3.
Work rest blades for centerless grinders. Cliff Co. 581,866, Nov. 3; Serial No. 631,272, published July 21, 1953.
Wrenches. Moore Drop Forging Company. 93,106, renewed Aug. 19, 1953. O. G. Nov. 3.
Wrenches, Open-ended, ratchet, plug, torque and pipe. Tec-Imports. 581,989, Nov. 3; Serial No. 640,477, published July 28, 1953.

CLASS 25

Locks, Automobile door safety. Hackett-Carlson Company. 582,005, Nov. 3; Serial No. 640,856, published Aug. 11, 1953.
Locks, latches, and locking attachments therefor, etc. Long Manufacturing Co., Inc. 581,933, Nov. 3; Serial No. 636,569, published Aug. 4, 1953.
Locksets, Door. Aug. Stenman Aktiebolag. 581,810, Nov. 3; Serial No. 622,423, published Aug. 4, 1953.

CLASS 26

Apparatus consisting of an air compressor and a powder spray gun, etc. Magnaflux Corporation. 581,844, Nov. 3; Serial No. 628,179, published June 2, 1953.
Assemblies consisting of a thermometer, and an adapter for mounting the thermometer in the neck of a vessel, etc. Scientific Glass Apparatus Co., Inc. 581,886, Nov. 3; Serial No. 633,125, published June 30, 1953.
Bridges for ophthalmic mountings. Shuron Optical Company, Inc. 581,967, Nov. 3; Serial No. 638,916, published June 2, 1953.
Cameras; camera dollies and parts thereof, etc. The Camera-Mart, Inc. 581,796, Nov. 3; Serial No. 617,862, published June 30, 1953.
Films, Motion picture. Vitapix Corporation. 581,838, Nov. 3; Serial No. 626,837, published June 2, 1953.
Glasses, Sun. Columbia Protektosite Company, Inc. 581,820, Nov. 3; Serial No. 624,228, published July 7, 1953.
Headlight testers, Automobile. Weaver Manufacturing Company. 381,250, Sept. 17, 1940. Republished Nov. 3.
Headlight testers, Automobile. Weaver Manufacturing Company. 381,264, Sept. 17, 1940. Republished Nov. 3.
Lens blanks, lenses, color screens, etc. Fish-Schurman Corporation. 581,852, Nov. 3; Serial No. 629,429, published June 30, 1953.
Lenses, Ophthalmic contact. D. L. Golden. 582,133, Nov. 3; Serial No. 633,724.
Light sensitive materials for use in photography. Gevaert Photo-Producten N. V. 581,766, Nov. 3; Serial No. 605,952, published June 2, 1953.
Machine which forms a gelatin film, and forms, measures, and fills the gelatin capsules therefrom. American Cyanamid Company. 581,862, Nov. 3; Serial No. 630,981, published June 30, 1953.
Photographic attachments and accessories. The Kalart Company Inc. 581,784, Nov. 3; Serial No. 615,711, published June 30, 1953.
Photographic equipment and accessories for stereoscopic cameras, photographic equipment and accessories for stereoscopic projectors, etc. David White Company. 581,800, Nov. 3; Serial No. 619,483, published June 9, 1953.
Receptacles and mechanical measuring dispensers, Combined. C. W. Burbridge. 582,109, Nov. 3; Serial No. 606,453.
Sensing head adapted for contact with an object to be gaged. The Sheffield Corporation. 581,868, Nov. 3; Serial No. 631,501, published June 30, 1953.

CLASS 27

Casings and frames for clocks. Eastern Art Products. 581,778, Nov. 3; Serial No. 614,292, published July 28, 1953.
Clocks, Travel. Stern Brothers. 581,975, Nov. 3; Serial No. 639,514, published June 23, 1953.
Watch bearing plates. A. V. Tornek. 582,008, Nov. 3; Serial No. 640,977, published June 9, 1953.
Watches. Fink's Jewelers, Inc. 581,998, Nov. 3; Serial No. 640,618, published June 9, 1953.
Watches and clocks. Norman M. Morris Corporation. 582,051, Nov. 3; Serial No. 642,831, published June 23, 1953.
Watches, Automatic. Admes S. A. R. L. 581,775, Nov. 3; Serial No. 611,748, published June 16, 1953.

CLASS 28

Belt buckles. Pioneer Suspender Company. 308,299, renewed Nov. 28, 1953. O. G. Nov. 3.
Belt buckles; coins; key rings; etc. The Cat Cay Realty Company, Limited. 581,801, Nov. 3; Serial No. 620,491, published June 23, 1953.
Jewelry. Rondette. 581,785, Nov. 3; Serial No. 615,724, published June 23, 1953.
Jewelry, Articles of. Flint Company. 581,848, Nov. 3; Serial No. 629,099, published June 9, 1953.

CLASS 29

Brush, Combined massage and complexion. G. B. Kent & Sons Limited. 581,927, Nov. 3; Serial No. 636,294, published Aug. 11, 1953.
Brushes, Hair, clothes brushes, dog brushes, etc. Hindes Limited. 582,036, Nov. 3; Serial No. 642,352, published Aug. 4, 1953.
Brushes, Tooth, nail, hair, clothes, hat, complexion, bath, eyebrow, hand, lather, military, and shampoo. United Drug Company. 305,464, renewed Aug. 15, 1953. O. G. Nov. 3.

CLASS 30

Ceramic articles. Stern Brothers. 581,976, Nov. 3; Serial No. 639,516, published June 30, 1953.

CLASS 31

Cooling towers and parts thereof, Liquid. The Marley Company, Inc. 581,915, Nov. 3; Serial No. 635,369, published June 2, 1953.
Cooling towers and parts thereof, Liquid. The Marley Company, Inc. 581,916, Nov. 3; Serial No. 635,370, published June 9, 1953.
Driers for dehydrating a circulating fluid—namely, a refrigerant fluid, etc. Henry Valve Company. 581,790, Nov. 3; Serial No. 616,909, published Aug. 11, 1953.
Filter aids. Great Lakes Carbon Corporation. 581,919, Nov. 3; Serial No. 635,765, published July 7, 1953.
Filter paper. Filtrator Coffee Apparatus Co., Inc. 581,818, Nov. 3; Serial No. 623,831, published Aug. 11, 1953.
Filters, Air. Owens-Corning Fiberglas Corporation. 581,738–9, Nov. 3; Serial Nos. 551,195–6, published June 16, 1953.
Filters; filter casings; and stone filters. H. O. Trerice. 581,843, Nov. 3; Serial No. 628,014, published June 9, 1953.
Freezers, Commercial ice-cream dispensing. Sweden Freezer Manufacturing Company. 581,928, Nov. 3; Serial No. 636,316, published Aug. 11, 1953.

Freezers, Deep. Magic Pantry Co. 581,814, Nov. 3; Serial No. 623,610, published July 28, 1953.
Refrigerators, refrigerator parts, automaitc refrigerators, etc. Servel, Inc. 581,773, Nov. 3; Serial No. 611,242, published June 30, 1953.
Replacement parts for domestic and commercial refrigerators. Melchior, Armstrong, Dessau Co. of Delaware, Inc. 307,740, renewed Oct. 31, 1953. O. G. Nov. 3.
Water cooling towers, and air-cooled heat exchangers. Hudson Engineering Corporation. 581,777, Nov. 3; Serial No. 613,711, published Aug. 4, 1953.
Water softener. W. A. Harting. 581,914, Nov. 3; Serial No. 635,363, published July 7, 1953.
Water softener regenerating units. Elgin Softener Corporation. 581,907, Nov. 3; Serial No. 634,838, published Aug. 11, 1953.
Water-softeners. The Dayton Pump & Manufacturing Company. 581,918, Nov. 3; Serial No. 635,689, published July 21, 1953.
Water softeners and filters. Soft Water Supply Co. 581,900, Nov. 3; Serial No. 634,350, published Aug. 11, 1953.

CLASS 32

Bed combination, including mattress unit, Special. Slumberland Products Co. 581,783, Nov. 3; Serial No. 615,292, published Aug. 11, 1953.
Bedding clamps. J. F. Di Maria. 581,875, Nov. 3; Serial No. 632,201, published July 28, 1953.
Cabinets, Acoustical loudspeaker enclosure. R-J Enclosures, Inc. 582,010, Nov. 3; Serial No. 641,087, published July 28, 1953.
Cabinets, Supply. The DoAll Company. 579,071, Aug. 25, 1953. Canceled Sept. 25, 1953. O. G. Nov. 3.
Chair and desk unit, Child's combination. J. L. Weiner Co. 582,043, Nov. 3; Serial No. 642,585, published Aug. 11, 1953.
Chair leg tips. The National Plastic Products Company. 581,994, Nov. 3; Serial No. 640,575, published July 28, 1953.
Chairs, Tubular, stools, portable towel racks, etc. Gilton Mfg. Corp. 582,141, Nov. 3; Serial No. 638,764.
Cots. National Mattress Company. 581,750, Nov. 3; Serial No. 580,496, published July 28, 1953.
Forgings in the form of flower stands, plant stands, vase stands, etc. H. Wolter. 581,752, Nov. 3; Serial No. 582,454, published July 28, 1953.
Furniture. S. S. & S. Manufacturing Co. 582,127, Nov. 3; Serial No. 629,058.
Furniture. Weatherwood Manufacturing Co. 582,025, Nov. 3; Serial No. 642,057, published July 28, 1953.
Furniture, Infants' nursery, and juvenile. Storkline Furniture Corporation. 581,952, Nov. 3; Serial No. 638,168, published July 28, 1953.
Mattress cores. United States Rubber Company. 581,920, Nov. 3; Serial No. 635,796, published July 28, 1953.
Mattresses. Serta Associates, Inc. 581,892, Nov. 3; Serial No. 633,881, published Aug. 4, 1953
Mattresses. Serta Associates, Inc. 581,896, Nov. 3; Serial No. 634,273, published Aug. 4, 1953.
Mattresses. Serta Associates, Inc. 581,897–8, Nov. 3; Serial Nos. 634,275–6, published Aug. 4, 1953.
Partition forming storage cabinets. Boyd-Britton, Incorporated. 581,746, Nov. 3; Serial No. 577,095, published June 2, 1953.
Pillows and mattresses. Allen Manufacturing Company. 582,136, Nov. 3; Serial No. 635,575.
Pillows, mattresses, and box springs. Marshall Field & Company. 581,990, Nov. 3; Serial No. 640,519, published Aug. 4, 1953.
Spring assembly for upholstered furniture, mattresses and box springs. No-Sag Spring Company. 581,873–4, Nov. 3; Serial Nos. 631,944–5, published Aug. 4, 1953.
Stand, Vertical multi-tray rotary. The Union Metal Manufacturing Company. 581,882, Nov. 3; Serial No. 632,805, published July 28, 1953.
Stands, Metal. W. L. Stensgaard and Associates, Inc. 581,879, Nov. 3; Serial No. 632,453, published July 28, 1953.
Tables, Extension. Charak Furniture Company. 581,988, Nov. 3; Serial No. 640,145, published Aug. 4, 1953.
Window shade rollers. Breneman-Hartshorn Inc. 582,001, Nov. 3; Serial No. 640,723, published Aug. 4, 1953.
Window shades. Breneman-Hartshorn Inc. 581,996, Nov. 3; Serial No. 640,602, published Aug. 4, 1953.
Window shades. Breneman-Hartshorn Inc. 581,997, Nov. 3; Serial No. 640,604, published Aug. 4, 1953.

CLASS 33

Glass, Stock. Eastern Art Products. 581,779, Nov. 3; Serial No. 614,293, published July 28, 1953.
Glasses and tumblers, Drinking, luncheon sets, etc. Stern Brothers. 581,977, Nov. 3; Serial No. 639,518, published June 30, 1953.
Tumblers made of glass. International Molded Plastics, Inc. 581,842, Nov. 3; Serial No. 627,944, published June 23, 1953.

CLASS 35

Gaskets. Victor Manufacturing & Gasket Co. 582,074, Nov. 3; Serial No. 644,939, published Aug. 4, 1953.
Hose, Garden. The Gates Rubber Company. 582,080, Nov. 3; Serial No. 645,976, published Aug. 4, 1953.

CLASS 36

Phonograph records, Grooved. Campbell & McClintock. 581,942, Nov. 3; Serial No. 637,238, published Aug. 4, 1953.
Phonograph records, Grooved. Hollis Music, Inc. 581,888, Nov. 3; Serial No. 633,308, published Aug. 4, 1953.
Phonograph records, Grooved. B. E. Silvers. 582,110, Nov. 3; Serial No. 607,294.
Phonograph records, Grooved. Vox Productions Inc. 581,930, Nov. 3; Serial No. 636,445, published Aug. 4, 1953.
Phonographic styluses. Electric & Musical Industries Limited. 569,348, Jan. 20, 1953. Canceled Sept. 25, 1953. O. G. Nov. 3.
Piano actions. Piano Action & Key Corp. 581,910, Nov. 3; Serial No. 635,234, published Aug. 11, 1953.

CLASS 37

Drafting charts. E. M. Fuller. 582,114, Nov. 3; Serial No. 618,033.
Paper, Ledger and bond. Carew Manufacturing Company. 273,012, July 15, 1930. Republished Nov. 3.
Paper protective coverings. Louis DeJonge & Company. 582,107, Nov. 3; Serial No. 591,915.
Paper, Writing and printing. Carew Manufacturing Company. 273,794, Aug. 12, 1930. Republished Nov. 3.
Paper, Writing and printing. Carew Manufacturing Company. 274,366, Aug. 26, 1930. Republished Nov. 3.
Paper, Writing and printing. Carew Manufacturing Company. 274,382, Aug. 26, 1930. Republished Nov. 3.
Paper, Writing and printing. Carew Manufacturing Company. 307,862, renewed Nov. 7, 1953. O. G. Nov. 3.
Paper, Writing and Printing. Hampshire Paper Company. 277,377, Nov. 11, 1930. Republished Nov. 3.
Paper, Writing and printing. Hampshire Paper Company. 277,502, Nov. 11, 1930. Republished Nov. 3.
Paper, Writing and printing. Hampshire Paper Company. 307,177, renewed Oct. 17, 1953. O. G. Nov. 3.
Paper, Writing and printing. Hampshire Paper Company. 308,990 renewed Dec. 26, 1953. O. G. Nov. 3.
Pencils, Marking. Listo Pencil Corporation. 582,134, Nov. 3; Serial No. 634,230.

CLASS 38

Books. Bouregy & Curl, Inc. 582,139, Nov. 3; Serial No. 637,358.
Cartoons. Ace Reid Cartoons. 582,049, Nov. 3; Serial No. 642,792, published July 28, 1953.
Catalogues. Supplee-Biddle-Steitz Company. 582,052, Nov. 3; Serial No. 642,848, published July 28, 1953.
Magazine. Nelson R. Crow Publications, Inc. 582,122, Nov. 3; Serial No. 627,734.
Newspaper column. New York Herald Tribune Inc. 582,047, Nov. 3; Serial No. 642,684, published July 28, 1953.
Newspaper column. The Sporting News Publishing Company, Inc. 581,984, Nov. 3; Serial No. 640,054, published July 28, 1953.
Newspaper feature, Weekly. The Miami Daily News, Inc. 581,846, Nov. 3; Serial No. 628,548, published July 28, 1953.
Newspaper magazine section. The Times-Picayune Publishing Company. 581,761, Nov. 3; Serial No. 599,463, published July 28, 1953.
Newspapers. The Editor & Publisher Co. 94,168, re-renewed Nov. 11, 1953. O. G. Nov. 3.
Newspapers. The Editor & Publisher Co. 94,433, re-renewed Dec. 9, 1953. O. G. Nov. 3.
Periodical. Electric Steel Foundry. 582,045, Nov. 3; Serial No. 642,629, published July 28, 1953.
Periodical. G. Garland. 581,890, Nov. 3; Serial No. 633,765, published July 28, 1953.
Periodical. Orthopedic Appliance and Limb Manufacturers Association. 582,142, Nov. 3; Serial No. 646,418.
Publication, Annual. The Sporting Goods Publishing Company. 581,985, Nov. 3; Serial No. 640,055, published July 28, 1953.
Trading stamps. B & W Rainbow Stamp Company. 582,038, Nov. 3; Serial No. 642,457, published July 28, 1953.

CLASS 39

Aprons. M. A. Stirton. 581,934, Nov. 3; Serial No. 636,576, published July 28, 1953.
Blouses, Children's and girls'. A. I. Levin. 581,741, Nov. 3; Serial No. 564,999, published Aug. 11, 1953.
Blouses, Leather, leather vests, sheep-lined jackets, etc. Gordon & Ferguson, Inc. 217,643, Sept. 7, 1926. Republished Nov. 3.
Blouses, Women's and girls'. Pleasure Togs, Inc. 582,048, Nov. 3; Serial No. 642,689, published Aug. 4, 1953.
Blouses, nightrowns, slips, etc., Women's, misses', and children's. Tailortex Blouse, Inc. 582,016, Nov. 3; Serial No. 641,399, published July 28, 1953.
Boots and shoes. Manfield and Sons, Limited. 578,847, Aug. 18, 1953. Corrected. O. G. Nov. 3.
Boots and shoes, Men's, women's and children's. H. H. Brown Shoe Co., Inc. 581,921, Nov. 3; Serial No. 635,870, published July 28, 1953.
Brassières. Peter Pan Foundations, Inc. 582,062, Nov. 3; Serial No. 643,365, published Aug. 4, 1953.

Brassières, foundation garments, girdles, etc. Beautee-Fit Company. 581,902, Nov. 3; Serial No. 634,441, published Aug. 4, 1953.

Brassières, ladies' foundation undergarments, and ladies' batning suits. The La Resista Corset Company. 582,029, Nov. 3; Serial No. 642,147, published July 28, 1953.

Caps and berets, Children's. Facho Cap Company. 307,314, renewed Oct. 24, 1953. O. G. Nov. 3.

Caps, Bathing. I. B. Kleinert Rubber Company. 358,770, July 26, 1938. Republished Nov. 3.

Caps, Bathing. I. B. Kleinert Rubber Company. 371,078, Sept. 19, 1939. Republished Nov. 3.

Caps; hats, shoes; gloves, etc., Men's, women's, misses', and children's. William Skinner & Sons. 581,960, Nov. 3; Serial No. 638,320, published July 28, 1953.

Clothing, Ladies' and misses'. Madalyn Miller Corporation. 581,905, Nov. 3; Serial No. 634,695, published Aug. 11, 1953.

Clothing, Men's and boys' work and sport. The Black Manufacturing Co. 581,944, Nov. 3; Serial No. 637,355, published July 21, 1953.

Coats and suits, Ladies' and misses'. Siegel Bros. Garment Corp. 406,348, Mar. 28, 1944. Republished Nov. 3.

Coats, Furs. Suzanne's Parisian Furs, Inc. 581,867, Nov. 3; Serial No. 631,384, published July 28, 1953.

Corsets, girdles, and foundation garments. Treo Company, Inc. 581,979, Nov. 3; Serial No. 639,675, published July 28, 1953.

Cut-out linings, Removable. Siegel Bros. Garment Corp. 415,307, Aug. 7, 1945. Republished Nov. 3.

Dresses and evening gowns, Women's and misses'. Startime, Inc. 582,031, Nov. 3; Serial No. 642,175, published July 28, 1953.

Dresses, blouses, skirts, etc. G. Fine. 581,986, Nov. 3; Serial No. 640,071, published July 28, 1953.

Dresses, Ladies' and misses'. Shroyers Incorporated. 581,940, Nov. 3; Serial No. 637,089, published Aug. 11, 1953.

Dresses, Women's. Boris Smoler & Sons, Inc. 581,961, Nov. 3; Serial No. 638,445, published July 28, 1953.

Dresses, Women's and girls'. Robt. K. Gershenow Company, Inc. 581,982, Nov. 3; Serial No. 639,880, published July 28, 1953.

Dresses, wraps, jackets, coats, etc. The Neusteter Co. 581,884, Nov. 3; Serial No. 632,952, published July 28, 1953.

Footwear, Men's, women's, and children's. Techno Efficiency Council, Inc. 581,965, Nov. 3; Serial No. 638,742, published July 28, 1953.

Gaiters, Molded or dipped women's. United States Rubber Company. 581,992, Nov. 3; Serial No. 640,536, published July 28, 1953.

Garments, Foundation. Kops Bros., Inc. 581,858, Nov. 3; Serial No. 630,136, published July 28, 1953.

Gloves, Household and industrial. The Wilson Rubber Company. 581,791, Nov. 3; Serial No. 617,566, published July 28, 1953.

Gloves, Household and Industrial. The Wilson Rubber Company. 581,793, Nov. 3; Serial No. 617,568, published July 28, 1953.

Gloves, Ladies' and misses' fabric. Crescendoe Gloves, Inc. 582,050, Nov. 3; Serial No. 642,804, published Aug. 4, 1953.

Gloves, Rubber and plastic industrial and household. The Wilson Rubber Company. 581,792, Nov. 3; Serial No. 617,567, published Aug. 4, 1953.

Hair nets, Brooklyn Mills, Inc. 581,895, Nov. 3; Serial No. 634,296, published July 28, 1953.

Hats. Champ Hats, Inc. 581,831, Nov. 3; Serial No. 625,888, published July 28, 1953.

Hosiery, Women's. The Associated Merchandising Corporation. 582,121, Nov. 3; Serial No. 627,664.

Hosiery, Women's. Wayne Knitting Mills. 582,118, Nov. 3; Serial No. 626,280.

Jackets and sport jackets, Men's. N. Hilton. 582,021, Nov. 3; Serial No. 641,680, published July 28, 1953.

Jackets, golf jackets, and waistcoats, Men's suede leisure. E. Fink & Sons, Limited. 582,117, Nov. 3; Serial No. 625,669.

Neckties and scarfs, Men's. Wembley, Inc. 581,937, Nov. 3; Serial No. 636,620, published July 28, 1953.

Neckwear, Men's. H. Rosenberg. 581,829, Nov. 3; Serial No. 625,822, published July 14, 1953.

Outerwear, Ladies' and misses'. Robert Mann, Inc. 582,131, Nov. 3; Serial No. 632,123.

Shirts and sport shirts, Men's and boys' dress. M. & D. Simon Company, Incorporated. 581,747, Nov. 3; Serial No. 578,034, published Aug. 4, 1953.

Shirts, Men's and boys' negligee, dress and sport. The Shirtcraft Company, Inc. 581,758, Nov. 3; Serial No. 598,435, published Apr. 21, 1953.

Shirts, Men's and boys' work, dress, and negligee. The Shirtcraft Company, Inc. 581,787, Nov. 3; Serial No. 616,056, published July 21, 1953.

Shirts, Men's sport. Summit Mills Corporation. 581,813, Nov. 3; Serial No. 623,566, published June 30, 1953.

Shirts, pants, belts, etc., Men's, women's and children's outer. Miller & Co. 581,853, Nov. 3; Serial No. 629,446, published July 28, 1953.

Shoes, Men's, women's and children's. Bristol Manufacturing Corporation. 581,950, Nov. 3; Serial No. 638,060, published July 28, 1953.

Shoes, Women's. W. B. Coon Company. 581,981, Nov. 3; Serial No. 639,873, published July 28, 1953.

Shoes, Women's. Pearl-Preview Shoe Co. 581,970, Nov. 3; Serial No. 639,187, published July 28, 1953.

Shoulder braces and suspenders. P. Bailly & Cie. 92,939, re-renewed Aug. 12, 1953. O. G. Nov. 3.

Slipper socks, Cotton. Tam O'Shanter, Inc. 581,804, Nov. 3; Serial No. 621,177, published Aug. 19, 1952.

Sportswear, Ladies' and misses'. M. D. Goldman. 582,018, Nov. 3; Serial No. 641,552, published July 28, 1953.

Stiffeners, being parts of boots and shoes. Ferrersflex Limited. 582,009, Nov. 3; Serial No. 641,035, published July 28, 1953.

Suits and coats, Women's and misses'. Craftshire Sports, Inc. 581,963, Nov. 3; Serial No. 638,636, published July 28, 1953.

Sweaters, Women's and girls'. B. Charon. 582,140, Nov. 3; Serial No. 638,287.

Trousers. Hepton & Co. (Clothiers) Limited. 581,987, Nov. 3; Serial No. 640,121, published July 21, 1953.

Veils and hair nets. Fuld & Helmendinger. 306,767, renewed Sept. 26, 1953. O. G. Nov. 3.

Wearing apparel, Women's and misses' maternity. S. Nehamen. 581,782, Nov. 3; Serial No. 614,630, published Aug. 11, 1953.

CLASS 40

Belt backing. Style Supplies Manufacturers, Inc. 582,055, Nov. 3; Serial No. 643,004, published July 28, 1953.

Belt buckles. Pioneer Suspender Company. 307,982, renewed Nov. 14, 1953. O. G. Nov. 3.

Buckles. E-Z Buckle, Inc. 581,948, Nov. 3; Serial No. 637,918, published Aug. 4, 1953.

Clip-on adjuster which facilitates the fitting of a garment to a display form. M. B. Burns. 581,941, Nov. 3; Serial No. 637,110, published July 14, 1953.

Combs. Johnson & Johnson. 582,002–3, Nov. 3; Serial Nos. 640,741–2, published July 14, 1953.

Combs, Self cleaning. Waterbury Companies Inc. 582,034, Nov. 3; Serial No. 642,330, published Aug. 11, 1953.

Fabric and yarn cording. Frances & Walter Nelkin, Inc. 581,863, Nov. 3; Serial No. 631,018, published Aug. 4, 1953.

Fabric strap having snap fasteners attached to each end. The Hang-Over Company. 581,861, Nov. 3; Serial No. 630,535, published July 14, 1953.

Hair curlers, Kid. S. H. Kress and Company. 582,037, Nov. 3; Serial No. 642,444, published July 28, 1953.

Hair curlers, Non-electrical. The Gillette Company. 581,999, Nov. 3; Serial No. 640,624, published Aug. 11, 1953.

Hair curlers, Non-electrical, barrettes and combs. H. Goodman & Sons, Inc. 582,013, Nov. 3; Serial No. 641,290, published Aug. 11, 1953.

Narrow elastic braids. United Elastic Corporation. 581,891, Nov. 3; Serial No. 633,800, published July 14, 1953.

Pins, Bank, dressmaker pins, silk pins, etc. Scovill Manufacturing Company. 581,806, Nov. 3; Serial No. 621,986, published Aug. 11, 1953.

Pins, Safety. The Reddy Company, Inc. 582,135, Nov. 3; Serial No. 634,546.

Waist band linings. Morganstern, Brooks & Company. 581,953, Nov. 3; Serial No. 638,209, published Aug. 4, 1953.

CLASS 42

Cotton duck, cotton piece goods, rayon piece goods, etc. Mt. Vernon-Woodberry Mills, Inc. 582,026, Nov. 3; Serial No. 642,083, published July 28, 1953.

Fabrics. Charles Bloom, Inc. 582,000, Nov. 3; Serial No. 640,666, published July 28, 1953.

Fabrics, Pile. Crompton-Richmond Company, Inc. 305,557, renewed Aug. 22, 1953. O. G. Nov. 3.

Fabrics, Rubberized. Archer Rubber Company. 303,342, May 23, 1933. Republished Nov. 3.

Fabrics, Textile. Dan River Mills, Incorporated. 581,819, Nov. 3; Serial No. 623,953, published July 28, 1953.

Fabrics, Textile. Deering, Milliken & Co., Inc. 581,821, Nov. 3; Serial No. 624,476, published July 28, 1953.

Fabrics, Textile. Tanbro Fabrics Corp. 582,023, Nov. 3; Serial No. 641,989, published July 28, 1953.

Fabrics, Woolen and worsted. The House of Swansdown, Inc. 582,014, Nov. 3; Serial No. 641,302, published July 28, 1953.

Fabrics, Woolen and worsted. Siegel Bros. Garment Corp. 408,852, Aug. 29, 1944. Republished Nov. 3.

Piece goods. M. Lowenstein & Sons, Inc. 582,004, Nov. 3; Serial No. 640,749, published July 28, 1953.

Piece goods, Siegel Bros. Kiki Maid Koats, Inc. 342,873, Feb. 2, 1937. Republished Nov. 3.

Piece goods, Woolen. Botany Worsted Mills. 348,695, Aug. 3, 1937. Republished Nov. 3.

Piece goods, Woolen. Forstmann Woolen Co. 582,035, Nov. 3; Serial No. 642,345, published July 28, 1953.

Piece goods, Woolen. Forstmann Woolen Co. 582,040, Nov. 3; Serial No. 642,538, published July 28, 1953.

Sheets and pillow cases. Naumkeag Steam Cotton Company. 582,030, Nov. 3; Serial No. 642,156, published July 28, 1953.

Velvets, velveteens, plushes, etc. Crompton Company. 93,264, re-renewed Sept. 2, 1953. O. G. Nov. 3.

Webbing, Woven elastic. United Elastic Corporation. 581,901, Nov. 3; Serial No. 634,387, published July 28, 1953.

CLASS 43

Thread. Groves Thread Company. 568,104, Dec. 16, 1952. Canceled Sept. 18, 1953. O. G. Nov. 3.

Threads, yarns, and novelty yarns. The National Silk Company, Incorporated. 582,058–60, Nov. 3; Serial Nos. 643,175–7, published July 28, 1953.

Yarn, Carded cotton. Harriet Cotton Mills. 581,835, Nov. 3; Serial No. 626,325, published Aug. 4, 1953.

Yarns and threads. Imperial Chemical Industries Limited. 581,962, Nov. 3; Serial No. 638,583, published July 28, 1953.

CLASS 44

Dental prosthetic appliances and for surgical appliances. Austenal Laboratories, Incorporated. 581,911–12, Nov. 3; Serial Nos. 635,342–3, published Aug. 4, 1953.

Electro-physiological device. Electrodyne Co. 582,039, Nov. 3; Serial No. 642,532, published Aug. 4, 1953.

Portable electrically operated vibrating appliance for massaging the human body, etc. The A. C. Gilbert Company. 582,057, Nov. 3; Serial No. 643,094, published Aug. 4, 1953.

CLASS 46

Bread, sandwich rolls, sweet rolls, Danish pastry, etc. The Dayton Bread Co. 582,123, Nov. 3; Serial No. 627,869.

Candy. E. G. Whitman & Co. Inc. 582,124, Nov. 3; Serial No. 628,238.

Candy. E. G. Whitman & Company, Inc. 582,125, Nov. 3; Serial No. 628,240.

Canned food. John Morrell & Co. 308,670, renewed Dec. 12, 1953. O. G. Nov. 3.

Canned fruits, canned fruit cocktail, canned applesauce, etc. Fine Foods, Inc. 581,771, Nov. 3; Serial No. 608,539, published May 26, 1953.

Canned fruits, canned vegetables and canned deciduous fruit juices. Hickmott Canning Co. 581,763, Nov. 3; Serial No. 601,499, published May 26, 1953.

Canned roasted and peeled green chili peppers, canned red chili sauce, canned green chili sauce, etc. Ramirez & Feraud Chili Co. 582,054, Nov. 3; Serial No. 642,994, published June 9, 1953.

Casein precipitating agent. Kraft-Phenix Cheese Corporation. 307,995, renewed Nov. 14, 1953. O. G. Nov. 3.

Cheese. The Borden Company. 581,978, Nov. 3; Serial No. 639,551, published June 16, 1953.

Cheese and milk products. Gervais, Ch. Société Anonyme. 581,935–6, Nov. 3; Serial Nos. 636,586–7, published Aug. 11, 1953.

Chili powder. Mrs. G. E. Clausen. 302,573, renewed Apr. 25, 1953. O. G. Nov. 3.

Chili sauce. E. W. Rieck, Inc. 582,033, Nov. 3; Serial No. 642,306, published Aug. 4, 1953.

Chocolate flavored syrup, black walnuts in syrup, butterscotch, etc. Parkway Crushed Fruit Company. 581,751, Nov. 3; Serial No. 581,009, published May 26, 1953.

Coffee. John Morrell & Co. 308,904, renewed Dec. 26, 1953. O. G. Nov. 3.

Cookies and crackers. United Biscuit Company of America. 581,887, Nov. 3; Serial No. 633,185, published Aug. 4, 1953.

Cooking and salad oil. Planters Edible Oil Company. 307,927, renewed Nov. 14, 1953. O. G. Nov. 3.

Cotton-seed oil. Aspegren & Co. 91,446, re-renewed May 6, 1953. O. G. Nov. 3.

Cotton-seed oil. Aspegren & Co. 91,448, re-renewed May 6, 1953. O. G. Nov. 3.

Cottonseed oil used as a food, Hydrogenated flaked. The Procter & Gamble Company. 306,459, renewed Sept. 19, 1953. O. G. Nov. 3.

Dietary supplement, Specially processed powdered. Gaymont Foods Co. 581,859, Nov. 3; Serial No. 630,490, published Aug. 11, 1953.

Feed. J. W. Brosnan. 582,128, Nov. 3; Serial No. 630,258.

Flour, Wheat. Fuhrer-Ford Milling Co. 204,013, Oct. 6, 1925. Republished Nov. 3.

Fruits, Fresh citrus. Southern Citrus Association. 582,132, Nov. 3; Serial No. 633,469.

Ice cream and sherbets. Abbotts Dairies, Inc. 581,878, Nov. 3; Serial No. 632,407, published May 26, 1953.

Imitation of chocolate from natural food sources. Live Food Products Co. 582,138, Nov. 3; Serial No. 636,853.

Jams, Fruit, fruit jellies, fruit marmalades, etc. The South Shore Packing Corporation 434,540, Nov. 25, 1947. Republished Nov. 3.

Milk confection, Frozen. C. A. Reed. 581,749, Nov. 3; Serial No. 580,429, published July 7, 1953.

Oleomargarine. The Best Foods, Inc. 309,722, renewed Jan. 30, 1954. O. G. Nov. 3.

Piccalilli, jams, etc. Five Acres Farm. 540,632, Apr. 10, 1951. Canceled Sept. 18, 1953. O. G. Nov. 3.

Popcorn, Popped. Manley, Inc. 581,743, Nov. 3; Serial No. 569,334, published June 16, 1953.

Preserves, Vegetable and fruit. The South Shore Packing Corporation. 427,823, Feb. 25, 1947. Republished Nov. 3.

Salad dressing, Bottled. J. Ventre, Jr. 582,024, Nov. 3; Serial No. 641,996, published Aug. 4, 1953.

Sausage. Oscar Mayer & Co., Inc. 582,116, Nov. 3; Serial No. 624,963.

Sausages. The H. H. Meyer Packing Company. 582,065, Nov. 3; Serial No. 643,697, published Aug. 11, 1953.

Vegetable extract. Kraft-Phenix Cheese Corporation. 306,601, renewed Sept. 26, 1953. O. G. Nov. 3.

CLASS 48

Malt beverages. Aktieselskabet De Forenede Bryggerier. 307,268, renewed Oct. 24, 1953. O. G. Nov. 3.

CLASS 49

Alcoholic cordials, whiskey, creme de cacao, etc. Bohemian Distributing Company. 443,189, Aug. 2, 1949. Republished Nov. 3.

Gin. Bohemian Distributing Company. 443,822, Mar. 7, 1950. Republished Nov. 3.

Gin. Bohemian Distributing Co. Ltd. 330,609, Dec. 10, 1935. Republished Nov. 3.

Kummel. Standard Food Products Corp. 582,105, Nov. 3; Serial No. 583,177.

Vodka and ethyl alcohol. Bohemian Distributing Company. 442,333, Mar. 24, 1949. Republished Nov. 3.

Whiskey. Bohemian Distributing Company. 443,775, Feb. 21, 1950. Republished Nov. 3.

Whiskey. Bohemian Distributing Co. Ltd. 310,568, Feb. 27, 1934. Republished Nov. 3.

Whiskey. Bohemian Distributing Co. Ltd. 320,932, Jan. 15, 1935. Republished Nov. 3.

Whiskey. Tonkin Distributing Co. 329,311, Oct. 22, 1935. Republished Nov. 3.

Whiskey, Rye. "21" Brands, Inc. 338,008, Aug. 25, 1936. Republished Nov. 3.

Whisky. Pennsylvania Distilling Co., Inc. 309,654, renewed Jan. 23, 1954. O. G. Nov. 3.

CLASS 50

Adhesive coated cut outs of spun glass. Arkow-Lewis Frostlies Division. 581,854, Nov. 3; Serial No. 629,595, published July 14, 1953.

Chalkboard. New York Silicate Book Slate Co., Inc. 581,832, Nov. 3; Serial No. 626,043, published Aug. 11, 1953.

Characters of relatively thin flexible material in the nature of plastic letters and numerals. W. Gribben. 581,827, Nov. 3; Serial No. 625,418, published July 7, 1953.

Closures for tin and glass containers. Upressit Metal Cap Corporation. 581,815–16, Nov. 3; Serial Nos. 623,622–3, published Aug. 4, 1953.

Container caps. Crown Cork & Seal Company, Inc. 581,764, Nov. 3; Serial No. 602,931, published July 7, 1953.

Container caps, Decorated metal. Crown Cork & Seal Company, Inc. 582,022, Nov. 3; Serial No. 641,716, published July 14, 1953.

Foam rubber pads or mats. Belrug Mills of South Carolina. 581,870, Nov. 3; Serial No. 631,598, published July 7, 1953.

Place mats, Plastic table, and plastic mats for beverage glasses. Hedwin Corporation. 581,809, Nov. 3; Serial No. 622,300, published July 14, 1953.

Rubber or plastic backed flock carpeting, rugs and mats. The Tallmadge Co. Inc. 581,780, Nov. 3; Serial No. 614,584, published Aug. 11, 1953.

Straws, Drinking. Regal Products Company, Inc. 581,850, Nov. 3; Serial No. 629,322, published July 7, 1953.

CLASS 51

Cosmetic preparations. H. J. Haering. 581,851, Nov. 3; Serial No. 629,363, published July 7, 1953.

Cosmetics, Baby. Gerber Products Company. 581,840, Nov. 3; Serial No. 627,332, published July 7, 1953.

Cotton-covered capsules containing perfume. Cinco 582,120, Nov. 3; Serial No. 627,252.

Dandruff remover, Liquid. D. M. Hargreaves. 581,951, Nov. 3; Serial No. 638,080, published July 28, 1953.

Denture aids. R & S Chemical Co. 582,112, Nov. 3; Serial No. 614,669.

Deodorant, Personal. Sage Laboratories, Inc. 581,833, Nov. 3; Serial No. 626,052, published July 7, 1953.

Foot-powder. Vouple Company. 94,035, re-renewed Oct. 28, 1953. O. G. Nov. 3.

Hair coloring preparations. Bymart, Inc. 581,795, Nov. 3; Serial No. 617,909, published Aug. 11, 1953.

Hair lacquer, creme cold wave, creme vitalizer, etc. E. Frederics, Inc. 581,849, Nov. 3; Serial No. 629,104, published July 28, 1953.

Hair tints. Eterne Manufacturing Corporation. 581,803, Nov. 3; Serial No. 620,777, published July 7, 1953.

Lotion, All purpose, cologne, deodorant, etc. Royal Home Products, Inc. 581,860, Nov. 3; Serial No. 630,512, published Aug. 11, 1953.

Lotion face cream. Revlon Products Corporation. 581,938, Nov. 3; Serial No. 636,736, published July 7, 1953.
Lotion, Skin, essential cream, cleansing cream, and brilliantine. B. M. Simon. 581,802, Nov. 3; Serial No. 620,626, published July 7, 1953.
Lotions, Hair waving. D. C. Stokes. 581,742, Nov. 3; Serial No. 566,367, published July 14, 1953.
Nail polish remover preparation. Helen Neushaefer, Inc. 581,957, Nov. 3; Serial No. 638,308, published Aug. 11, 1953.
Perfumes and colognes. Lucien Lelong, Inc. 581,906, Nov. 3; Serial No. 634,793, published July 28, 1953.
Quinin pomade, liniment, and skin-lotion. Exelento Medicine Co. 92,058, renewed June 17, 1953. O. G. Nov. 3.
Shampoo-paste, hair tonic, depilatory, etc. United Drug Company. 93,250, re-renewed Aug. 26, 1953. O. G. Nov. 3.
Shaving cream, Brushless, lather shaving cream, shave bowl (shaving soap). Sears, Roebuck and Co. 581,807, Nov. 3; Serial No. 622,034, published July 7, 1953.
Toilet kits. J. W. Farrell. 582,130, Nov. 3; Serial No. 631,612.
Toilet water. Extraction and Chemical Company, Inc. 581,904, Nov. 3; Serial No. 634,529, published July 7, 1953.
Toilet water, cologne, perfume, etc. Parfums Blanchard. 581,825, Nov. 3; Serial No. 625,294, published Aug. 11, 1953.
Tooth paste. Perx Company. 368,101, June 6, 1939. Canceled Oct. 2, 1953. O. G. Nov. 3. (Formerly Class 6.)

CLASS 52

Cleaning compound. F. J. Paull. 581,765, Nov. 3; Serial No. 605,228, published July 14, 1953.
Soaps. The J. T. Robertson Company. 302,858, renewed May 2, 1953. O. G. Nov. 3.
Spotting and cleaning fluid. Skelly Oil Company. 308,161, renewed Nov. 21, 1953. O. G. Nov. 3.

CLASS 100

Achievement testing services. American Public Health Association. 582,088, Nov. 3; Serial No. 628,991, published Aug. 4, 1953.
Engineering consultation and advice in the fields of aeronautics and ordnance, etc. Aircraft Armaments, Inc. 582,143, Nov. 3; Serial No. 622,061.
Organizing of chapters in a national business society and maintaining membership therein. Walter W. Ross and Company, Inc. 582,101, Nov. 3; Serial No. 620,017, published Aug. 11, 1953.
Services relating to the improvement of mental health. The National Association for Mental Health, Inc. 582,097, Nov. 3; Serial No. 640,351, published Aug. 11, 1953.
Serving and dispensing foods and beverages in restaurants. Nedick's, Inc. 582,093, Nov. 3; Serial No. 637,497, published Aug. 4, 1953.

CLASS 101

Advertising services. G. S. McGinniss. 582,087, Nov. 3; Serial No. 616,960, published Aug. 4, 1953.
Advertising the goods and the services of sponsors. C. Vinti. 582,096, Nov. 3; Serial No. 638,676, published Aug. 11, 1953.

CLASS 102

Underwriting of accident and sickness insurance. Bankers Life Company. 582,094, Nov. 3; Serial No. 638,468, published Aug. 11, 1953.
Underwriting of life, health, and accident insurance. Columbian Mutual Life Insurance Company. 582,090, Nov. 3; Serial No. 629,767, published Aug. 11, 1953.
Underwriting of life, health, and accident insurance. Columbian Mutual Life Insurance Company. 582,100, Nov. 3; Serial No. 645,550, published Aug. 11, 1953.

CLASS 103

Cleaning, repairing, and adjusting door checks, sharpening and repairing saws, lawn mowers and other cutting tools, etc. H. M. Sanders Co. 582,086, Nov. 3; Serial No. 597,355, published Aug. 4, 1953.
Designing, constructing, maintaining, and repairing displays for industrial exhibits. Gardner Displays Company. 582,085, Nov. 3; Serial No. 534,104, published Aug. 11, 1953.
Locksmithing. Registered Locksmiths' Guild of America, Inc. 582,144, Nov. 3; Serial No. 628,426.
Services rendered at automotive service stations and garages. Standard Oil Company of California. 582,091, Nov. 3; Serial No. 633,089, published Aug. 4, 1953.

CLASS 104

Radio and television broadcasting services. Storer Broadcasting Company. 582,092, Nov. 3; Serial No. 635,000, published Aug. 4, 1953.

CLASS 105

International air line transportation of passengers and cargo. Philippine Air Lines, Inc. 582,098, Nov. 3; Serial No. 640,523, published Aug. 11, 1953.
Storage and packing of household goods, etc. Allied Van Lines, Inc. 582,095, Nov. 3; Serial No. 638,625, published Aug. 11, 1953.

CLASS 106

Chemically treating metal products. Bowman Chemicals, Inc. 582,089, Nov. 3; Serial No. 629,544, published Aug. 4, 1953.
Dyeing of rayon, silks and acetates. Putnam Finishing Company. 554,861, Feb. 12, 1952. Canceled Oct. 2, 1953. O. G. Nov. 3.

CLASS 107

Information service rendered to women. F. L. Weiss. 582,099, Nov. 3; Serial No. 642,788, published Aug. 4, 1953.

LIST OF DESIGN PATENTEES

Adler, Samuel E., assignor to Admiral Corporation, Chicago, Ill. Combination radio clock and pen set. 170,738, Nov. 3.
Admiral Corporation, assignee: *See*—
Adler, Samuel E.
Wilson, Lawrence H.
Air-Maze Corporation, assignee: *See*—
Sobeck, Harold R.
American Optical Company, assignee: *See*—
Armbruster, John T.
Carmichael, Walter C.
American Radiator & Standard Sanitary Corporation, assignee: *See*—
Trout, Harry R., and Hill.
Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental abrading unit. 170,739, Nov. 3.
Armbruster, John T., Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass. Desk. 170,740, Nov. 3.
Back, Laurel M., San Lorenzo, Calif. Dent-removing tool. 170,741, Nov. 3.
Bausch & Lomb Optical Company, assignee: *See*—
Burrett, Melvin C.
Bekeschus, Edward T., Cincinnati, Ohio. Dress. 170,742, Nov. 3.
Berlund, Jacob B., assignee: *See*—
Preti, Giuseppe.
Boyer, Ralph K., Cleveland, and H. W. Krohn, Jr., North Olmsted, assignors to The Dill Manufacturing Company, Cleveland, Ohio. Head of an aerosol valve. 170,743, Nov. 3.
Burrett, Melvin C., Whittier, Calif., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Diagnostic instrument head. 170,744, Nov. 3.
Carmichael, Walter C., Winthrop, assignor to American Optical Company, Southbridge, Mass. Spectacle frame or the like. 170,745, Nov. 3.
Carmichael, Walter C., Lexington, assignor to American Optical Company, Southbridge, Mass. Spectacle frame or the like. 170,746, Nov. 3.
Chadbourn Hosiery Mills, Inc., assignee: *See*—
Hoffecker, Frank.
Chandler, Joseph L., Chicago, Ill. Ash tray. 170,747, Nov. 3.
Chrysler Corporation, assignee: *See*—
Mawhinney, Melvin C.
Cohen, Lester, Spring Valley, and W. H. Reineking, San Diego, Calif. Monorail toy. 170,748, Nov. 3.
Collins, Clifton T., Winston-Salem, N. C., assignor of one-half to R. M. Garriott. Bobby sock. 170,749, Nov. 3.
Del Mas, Christy M., New York, N. Y. Compact. 170,750, Nov. 3.
Dill Manufacturing Company, The, assignee: *See*—
Boyer, Ralph K., and Krohn.
Dunlop Rubber Company Limited, assignee: *See*—
Morgan, John H.
Emery, Melvin S., Oakland, Calif. Airplane. 170,751, Nov. 3.
Enghauser, Winford L., Cincinnati, Ohio. Porch column. 170,752, Nov. 3.
Fox Products Company, assignee: *See*—
Medlar, Lewis A., and Shuler.
Fukal, Alfred F., assignor to Gulf Coast Manufacturing Co., Inc., Houston, Tex. Educational toy. 170,753, Nov. 3.
Garriott, Rosebud M., assignee: *See*—
Collins, Clifton T.
Gulf Coast Manufacturing Co., Inc., assignee: *See*—
Fukal, Alfred F.
Hexel, Leopold J., Detroit, Mich. Bottle. 170,754, Nov. 3.
Hill, Frederick M.: *See*—
Trout, Harry R., and Hill.
Hills, David G., Hartford, assignor to Plax Corporation, West Hartford, Conn. Bottle. 170,755, Nov. 3.
Hoffecker, Frank, assignor to Chadbourn Hosiery Mills, Inc., Charlotte, N. C. Lady's stocking. 170,756, Nov. 3.
Hooven, Florence S., executrix: *See*—
Hooven, Howard D.
Hooven, Howard D., deceased, Doylestown, Pa., by F. S. Hooven executrix, Doylestown, assignor to Quaker Lace Company, Philadelphia, Pa. Tablecloth. 170,757, Nov. 3.
Kather, Alfred C.: *See*—
Katherton, Alfred.
Katherton, Alfred, also known as Alfred C. Kather, San Francisco, Calif. Tethered ball game apparatus. 170,758, Nov. 3.
Kesler, Herman, Jenkintown, Pa. Toy shopping cart or similar article. 170,759, Nov. 3.
Krohn, Henry W., Jr.: *See*—
Boyer, Ralph K., and Krohn.
Latama Cutlery, Inc., assignee: *See*—
Polk, Emil S.
Luger Furniture Company, assignee: *See*—
Luger, Rennold J.
Luger, Rennold J., assignor to Luger Furniture Company, Minneapolis, Minn. Drop-leaf dining table. 170,760, Nov. 3.
Lynard of California, Inc., assignee: *See*—
Rosenthal, William.
Lynchburg Planter Manufacturing Company, assignee: *See*—
Turner, George W.
Mawhinney, Melvin C., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Automobile stone shield. 170,761. Nov. 3.
Medlar, Lewis A., Oreland, and C. Shuler, Media, assignors to Fox Products Company, Philadelphia, Pa. Battery charger casing. 170,762, Nov. 3.
Meepos, Daniel, Los Angeles, Calif. Lazy Susan. 170,763, Nov. 3.
Midhurst China Company, Inc., assignee: *See*—
Zelsel, Eva.
Morgan, John H., Old Southgate, London, assignor to Dunlop Rubber Company Limited, Birmingham, England. Waistband. 170,764, Nov. 3.
Newman, James F., St. Clair Shores, Mich., assignor to United States Rubber Company, New York, N. Y. Tire. 170,765, Nov. 3.
Petertil, Victor A., Oak Park, Ill., assignor to West Bend Aluminum Co., West Bend, Wis. French fryer. 170,766, Nov. 3.
Plax Corporation, assignee: *See*—
Hills, David G.
Polk, Emil S., New York, N. Y., assignor to Latama Cutlery, Inc. Combination pocketknife and lighter. 170,767, Nov. 3.
Preti, Giuseppe, Ferrara, Italy, assignor to J. B. Berlund, Los Angeles, Calif. Shoe or similar article. 170,768, Nov. 3.
Quaker Lace Company, assignee: *See*—
Hooven, Howard D.
Reineking, Willard H.: *See*—
Cohen, Lester, and Reineking.
Rosenberg, Theodore, New Rochelle, and H. T. Silverman, Forest Hills, N. Y. Handbag. 170,769, Nov. 3.
Rosenthal, Harry, Peekskill, N. Y., assignor to Van Brode Milling Co., Inc., Clinton, Mass. Container unit for disinfectants, deodorants, insecticides, and the like. 170,770, Nov. 3.
Rosenthal, William, assignor to Lynard of California, Inc., Culver City, Calif. Table lamp. 170,771, Nov. 3.
Rosenthal, William, assignor to Lynard of California, Inc., Culver City, Calif. Table lamp. 170,772, Nov. 3.
Rosenthal, William, assignor to Lynard of California, Inc., Culver City, Calif. Table lamp. 170,773, Nov. 3.
Rosenthal, William, assignor to Lynard of California, Inc., Culver City, Calif. Floor lamp. 170,774, Nov. 3.
Saporito, Dominic A., Royal Oak, Mich., assignor to United States Rubber Company, New York, N. Y. Plastic coated fabric or similar article. 170,775, Nov. 3.
Shuler, Clyde: *See*—
Medlar, Lewis A., and Shuler.
Silverman, Harry T.: *See*—
Rosenberg, Theodore, and Silverman.
Sobeck, Harold R., Novelty, assignor to Air-Maze Corporation, Cleveland, Ohio. Combined filter and manifold for internal-combustion engines. 170,776, Nov. 3.
Trout, Harry R., and F. M. Hill, assignors to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa. Combined cabinet and hanging shelf unit. 170,777, Nov. 3.
Turner, George W., assignor to Lynchburg Planter Manufacturing Company, Lynchburg, Va. Hand planter. 170,778, Nov. 3.
United States Rubber Company, assignee: *See*—
Newman, James F.
Saporito, Dominic A.
Van Brode Milling Co., Inc., assignee: *See*—
Rosenthal, Harry.
Verrand, Mamie, New York, N. Y. Dress. 170,779, Nov. 3.
Walker, Thomas, Limited, assignee: *See*—
Wood, Herbert H.
Ward, Thomas C., Waco, Tex. Plaster cast spreading tool. 170,780, Nov. 3.
Weaver, Velma G., Oklahoma City, Okla. Toy figure or similar article. 170,781, Nov. 3.
Wegner, Theodore O., London, England. Shoe. 170,782, Nov. 3.
Wegner, Theodore O., London, England. Shoe. 170,783, Nov. 3.
West Bend Aluminum Co., assignee: *See*—
Petertil, Victor A.
West, Brennan B., Jr., Cleveland Heights, Ohio. Attachment for bicycles in representation of a pony. 170,784, Nov. 3.

White, S. S., Dental Manufacturing Company, The, assignee: *See*—
Angell, Robert C.
Wilson, Lawrence H., Grosse Pointe, Mich., assignor to Admiral Corporation, Chicago, Ill. Combination clock and radio cabinet. 170,785, Nov. 3.
Wolf Brothers, Inc., assignee: *See*—
Wolf, Walter L.
Wolf, Walter L., Rydal, assignor to Wolf Brothers, Inc., Philadelphia, Pa. Wrapping paper or similar article. 170,786, Nov. 3.
Wood, Herbert H., assignor to Thomas Walker Limited, Birmingham, England. Hook for a trouser waistband. 170,787, Nov. 3.
Zeisel, Eva, assignor to Midhurst China Company, Inc., New York, N. Y. Dish or the like. 170,788, Nov. 3.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 3D DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

AMI Incorporated, assignee: *See*—
McCallum, Robert A.
Abate, Anthony, Waltham, assignor to Raytheon Manufacturing Company, Newton, Mass. Binary decoding system. 2,658,139, Nov. 3.
Academy Electrical Products Corp., assignee: *See*—
Greenbaum, Arthur.
Acme Coppersmithing & Machine Company, assignee: *See*—
Epstein, Joshua.
Acragage Corporation, assignee: *See*—
Jankot, Joseph J.
Acrometal Products, Inc., assignee: *See*—
Bieber, Frederick J.
Adams, Charles J.: *See*—
Klostermann, Curt W., and Adams.
Adams, James W., Beacon Falls, Conn., assignor to United States Rubber Company, New York, N. Y. Preparation of synthetic rubber-carbon black mixtures. 2,658,049, Nov. 3.
Admiral Corporation, assignee: *See*—
Mather, Harold C.
Adzima, George R., assignor to The Westfield Manufacturing Company, Westfield, Mass. Bicycle kick stand construction. 2,657,941, Nov. 3.
Aero Zipp Fasteners Limited, assignee: *See*—
Weber Vitězslav.
Air Associates, Inc., assignee: *See*—
Kupiec, Harry P., and Gravenhorst.
Air Products Incorporated, assignee: *See*—
Schilling, Clarence J.
Air Reduction Company, Incorporated, assignee: *See*—
Crowe, John J.
Hoover, Charles O.
McFarlin, Charles J.
Alderson, Thomas, New Castle, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Orientable condensation polymers of hydroxypivalic acid and preparing them. 2,658,055, Nov. 3.
Allison, Alexander S., Norbury, London, and R. Atherton, Chelsea, London England, assignors to General Foods Corporation, New York, N. Y. Refrigerating apparatus. 2,657,550, Nov. 3.
Alkaline Batteries Limited, assignee: *See*—
Atkins, John S.
Allen, Benjamin H., Lamesa, Tex. Elevating means for row markers. 2,657,623, Nov. 3.
Allen, Cecil H., Colon, Panama. Universal time clock and hour angle indicator. 2,657,525, Nov. 3.
Allen, Edward A., Westfield, and F. P. Healy, assignors to Van Norman Company, Springfield, Mass. Presetting device for boring tools. 2,657,470, Nov. 3.
Allen, Harry J., Palo Alto, Calif. Asymmetric adjustable supersonic nozzle. 2,657,575, Nov. 3.
Allen, Perry E., Durango, Colo. Thread tensioning attachment for fly tying vises. 2,657,877, Nov. 3.
Allied Chemical & Dye Corporation, assignee: *See*—
Coleman, Gordon A., Greene, Merriam, Miller, and Shannon.
Dornte, Ralph W.
Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Forwald, Haakon.
Alvear, Victor, Passaic, N. J. Plastic bung for beer barrels or the like. 2,657,817, Nov. 3.
American Car and Foundry Company, assignee: *See*—
Ecoff, Francis A.
Folmsbee, Clyde H.
American Cholesterol Products, Inc., assignee: *See*—
Moolten, Sylvan E.
American Cyanamid Company, assignee: *See*—
Harms, Edward R.
Hook, Edwin O., and Beegle.
American Enka Corporation, assignee: *See*—
Breazeale, Francis B.
Griset, Ernest J., Jr.
American Machine and Foundry Company, assignee: *See*—
Auchincloss, Samuel S., and Phillips.
American Optical Company, assignee: *See*—
Crandon, Harry D.
Grosvenor, Benjamin.
American Phenolic Corporation, assignee: *See*—
Kearse, George P.
Klostermann, Curt W., and Adams.
American Pulley Company, The, assignee: *See*—
Williams, William A.
American Radiator & Standard Sanitary Corporation, assignee: *See*—
Smith, Lowell L., and Gennari.
Watkins, Lee K.
American Safety Razor Corporation, assignee: *See*—
Goldshine, Melvyn.
American Viscose Corporation, assignee: *See*—
Fry, Horace P., Jr.
Anchor Hocking Glass Corporation, assignee: *See*—
Gora, Henry Z.
Anco, Inc., assignee: *See*—
Stevenson, Robert L.
Anderson, Charles H. J., and J. H. F. van Werd, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric lamp holder. 2,658,118, Nov. 3.
Anderson, Everett V., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Aqueous dispersions of butyl rubber-natural rubber blends. 2,658,044, Nov. 3.
Anderson, Gordon C.: *See*—
Tarbox, Philip B., and Anderson.
Andre, John R., assignee: *See*—
Coppage, Avery S.
Angell, Walter E., Brooklyn, N. Y. Automatic motor-driven pencil sharpener. 2,657,672, Nov. 3.
Arant, Perry, assignor to Clayton Manufacturing Company, El Monte, Calif. Pump. 2,657,640, Nov. 3.
Arbeit, Pierre, Paris, R. Dubois, Bagneaux-sur-Loing, and R. E. Lambert, assignors to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Process and apparatus for making glass. 2,658,095, Nov. 3.
Ardell, Edgar: *See*—
Holstebroe, Kay E., Ardell, and Wimmer.
Arkin, Chaim, Cape Town, Cape of Good Hope Province, Union of South Africa. Manufacture of cheese. 2,657,993, Nov. 3.
Armington, Raymond Q., Shaker Heights, and W. F. Klun, assignors to The Euclid Road Machinery Co., Euclid, Ohio. Digging teeth for loading machine digging blades. 2,657,480, Nov. 3.
Armitage, Joseph B., Wauwatosa, and J. N. Flannery, assignors to Kearney & Trecker Corporation, West Allis, Wis. Machine tool transmission and control mechanism. 2,657,616, Nov. 3.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Brady, James M.
Milton, Clare L., Jr., and Nielson.
Spencer, Burdell D.
Arnold, George B., Glenham, and L. Kovach, Beacon, assignors to The Texas Company, New York, N. Y. Centrifugal separation of urea complexes from organic mixtures. 2,658,060, Nov. 3.
Arrow Fastener Co., Inc., assignee: *See*—
Boroughs, Frank S.
Arrow, William, Chicago, Ill. Edentulous and partially edentulous demonstrational and educational model. 2,657,462, Nov. 3.
Arvey Corporation, assignee: *See*—
Kleiman, Morton.
Askania-Werke Aktiengesellschaft, assignee: *See*—
Falk, Olaf.
Atherton, Ronald: *See*—
Alison, Alexander S., and Atherton.
Atkins, John S., assignor to Alkaline Batteries Limited, Redditch, England. Anchoring device for insulated flexible electric cables. 2,657,890, Nov. 3.
Atlas Powder Company, assignee: *See*—
Huyett, Daniel D.
Aubert, Fred B., Grosse Pointe, Mich. Combustion heating control system. 2,657,742, Nov. 3.
Aubert, Fred B., Grosse Pointe, Mich. Electrical control system for burner and control device therefor. 2,657,743, Nov. 3.
Auchincloss, Samuel S., Williamsville, and H. W. Phillips, Kenmore, N. Y., assignors to American Machine and Foundry Company. Sweep and guard mechanism for bowling pin setting machines. 2,657,929, Nov. 3.
Audette, B. J., assignee: *See*—
Wilg, Selmer L.
Aurora Equipment Company, assignee: *See*—
Dunham, Thomas M.

Automatic Electric Laboratories, Inc., assignee: *See*—
Graybill, Kenneth W., and Sengebusch.
Huffman, Robert L.
Lomax, Clarence E.

Automotive Products Company Limited, assignee: *See*—
Parker, Sydney M.

Automatic Telephone & Electric Company Limited, assignee: *See*—
Davison, Alan, and Threadgold.

Avery, Hillard M., Indianapolis, Ind. Surge-producing scalp-treating device. 2,657,684, Nov. 3.

Babcock, Henry A., Glendale, Calif. Passenger transit system. 2,657,642, Nov. 3.

Babcock & Wilcox Company, The, assignee: *See*—
Forsyth, Robert H.

Bachelier, "D" Flavius, Glendale, Calif., assignor to "Pump-It" Incorporated. Hand actuated dispenser pump. 2,657,834, Nov. 3.

Bachrach, Selik, Florida, Argentina. Mechanical lighter. 2,657,562, Nov. 3.

Backus, John G., Los Angeles, Calif., and B. Peters, Rochester, N. Y., assignors to the United States of America as represented by the United States Atomic Energy Commission. Method and apparatus for focusing charged particles. 2,658,150, Nov. 3.

Badische Anilin- & Soda-Fabrik, Aktiengesellschaft, assignee: *See*—
Reppe, Walter, Schweckendiek, and Kroeper.

Bainbridge, Kenneth T., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Tunable velocity modulation device. 2,658,147, Nov. 3.

Baker, John G., and L. C. Tullis, Evansville, and L. T. Watry, Madison, assignors to Baker Manufacturing Company, Evansville, Wis. Pump construction. 2,657,633, Nov. 3.

Baker, John G., assignor to Baker Manufacturing Company, Evansville, Wis. Pitless well construction. 2,657,637, Nov. 3.

Baker Manufacturing Company, assignee: *See*—
Baker, John G.
Baker, John G., Tullis, and Watry.

Balch, George E., Pittsburgh, Pa. Container stand. 2,657,809, Nov. 3.

Bales, Max G., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ignition system. 2,658,155, Nov. 3.

Ballber, Mariano, Paris, France. Needle loom. 2,657,714, Nov. 3.

Ballew, Harold W., Lubbock, Tex., and J. R. Ballew, Hobbs, N. Mex. Magnetic fishing tool. 2,657,752, Nov. 3.

Ballew, Julius R.: *See*—
Ballew, Harold W. and J. R.

Bannister, Clyde E., Houston, Tex. Parachute-equipped helicopter. 2,657,880, Nov. 3.

Bargen, William J., Waukegan, Ill. Furniture top to frame connections. 2,657,965, Nov. 3.

Barr, Frank T., Summit, and K. J. Nelson, Cranford, N. J., assignors to Standard Oil Development Company. Production of water gas. 2,657,986, Nov. 3.

Barr, Frank T., Summit, N. J., assignor to Standard Oil Development Company. Production of water gas. 2,657,987, Nov. 3.

Barret, Pierre M. R., Marseille, assignor to Centre National de la Recherche Scientifique, Paris, France. Production of aerosols. 2,658,169, Nov. 3.

Barrett, Arthur L., Franklin, Pa. Rail joint. 2,657,863, Nov. 3.

Barrett, Hillard E., East Orange, N. J., Hall, Lodl, and W. C. Schaffer, Fair Lawn, N. J., assignors to Curtiss-Wright Corporation. Fluid pressure speed sensing device. 2,657,699, Nov. 3.

Barrow, James R., assignor to Columbiana Boiler Company, Columbiana, Ohio. Electrode holder. 2,658,133, Nov. 3.

Barton, Bernard C., Clifton, N. J., assignor to United States Rubber Company, New York, N. Y. Rubber processing. 2,658,092, Nov. 3.

Bashover, Albert, assignor to Conmar Products Corporation, Newark, N. J. Slide fastener. 2,657,444, Nov. 3.

Basset, Lucien P., Montmorency, France. Microporous carbon and graphite articles, including impregnated battery electrodes and making the same. 2,658,099, Nov. 3.

Bastian-Blessing Company, The, assignee: *See*—
Mendonca, Lewis E.
Steczynski, Myron E., Biederstadt, and Rupp.

Beal, Keith F.: *See*—
Signer, Ralph J., and Beal.

Beaver, Oren M., Tulsa, Okla. Case for protecting snelled fishing hooks. 2,657,497, Nov. 3.

Becker, Henry, Los Angeles, Calif. Lipbrush and housing therefor. 2,657,411, Nov. 3.

Bedford, William A., Jr., North Scituate, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Mounting clip. 2,657,442, Nov. 3.

Beebe, Monroe B., Old Lyme, Conn. Rocking axle with steerable stub axles. 2,657,939, Nov. 3.

Beeber, Allan R. A., Matawan, assignor to Keuffel & Esser Company, Hoboken, N. J. Measuring tape. 2,658,006, Nov. 3.

Beegle, Lindley C.: *See*—
Hook, Edwin O., and Beegle.

Begwaco Meters Limited, assignee: *See*—
Butterworth, Edward, and Hinchcliffe.

Bell & Howell Company, assignee: *See*—
Wightman, William W.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Buhrendorf, Frederick G.
Depp, Wallace A.
Haines, William T., and Newsom.
Jenkins, Reginald T.
Kalin, Walter, and Power.
Lovell, Clarence A.
Malthaner, William A., Newby, and Vaughan.
Mason, Warren P.

Beman, Floyd L., assignor to The Dow Chemical Company, Midland, Mich. Pentachlorophenyl ester of trichloroacetic acid. 2,658,071, Nov. 3.

Bender, Joseph, Jr., J. Eberly, and R. Tipple, assignors to The General Industries Company, Elyria, Ohio. Commutator. 2,658,158, Nov. 3.

Bendix Aviation Corporation, assignee: *See*—
Burnett, Richard T.
Driscoll, Paul A.
Haynes, Stephen S.
House, Bryan E.
Hupp, Edward E.
Murphy, Donald F.
Perrot, Paul H.
Weisenbach, Charles O.
Wilson, Albert E., and Hukill.

Bennert, Malcolm O., Methuen, and H. E. Cradduck, Amesbury, Mass., assignors to Western Electric Company, Incorporated, New York, N. Y. Toroidal coil winding machine. 2,657,865, Nov. 3.

Bennett, John D., assignor to Dresser Equipment Company, Beaumont, Tex. Traveling block. 2,657,905, Nov. 3.

Bentley, Clarence H.: *See*—
Bletcher, Ralph E., and Bentley.

Bentley, Leslie F., assignor to Pye Limited, Cambridge, England. Insulation stripping device. 2,657,601, Nov. 3.

Berdan, George D., Fort Worth, Tex. Clutch for lawn mowers and trimmers. 2,657,517, Nov. 3.

Berg, Elaine, Chicago, assignor of one-third to R. H. Wendt, Evanston, and one-third to F. P. Peters, Chicago, Ill. Antidrip device for coffee cups and the like. 2,657,559, Nov. 3.

Bernhardt, Rudolph, Chicago, Ill. Dispenser closure top with pouring spout and slidable closure. 2,657,837, Nov. 3.

Bernstein, Jacob M., and C. E. Robertson, Jr., Pocomoke City, Md., said Robertson, Jr., assignor to said Bernstein. Lever lock for pressing machines. 2,657,840, Nov. 3.

Betz Corporation, assignee: *See*—
Knight, Verne C.

Biddinger, Guy R., Bellwood, and C. H. Koonz, assignors to Swift & Company, Chicago, Ill. Opening and cleaning poultry gizzards. 2,657,424, Nov. 3.

Bieber, Frederick J., assignor to Acrometal Products, Inc., Minneapolis, Minn. Spool. 2,657,876, Nov. 3.

Biederstadt, Walter W.: *See*—
Steczynski, Myron E., Biederstadt, and Rupp.

Bielstein, Walter J., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Wear indicator. 2,657,909, Nov. 3.

Birtman Electric Company, assignee: *See*—
Howard, Frank S.
Sparklin, Charles H., and More.

Bituminous Coal Research, Inc., assignee: *See*—
Von Stroh, Gerald F. H.

Blackburn, Bryan, assignor to R. D. Cole Manufacturing Co., Newnan, Ga. Elevated storage tank. 2,657,819, Nov. 3.

Blacker, Latham V. S., Coldhayes, Liss, England. Projectile. 2,657,630, Nov. 30.

Blackstone Corporation, assignee: *See*—
Briggs, Allan L.

Blaney, Dorothy L., Los Angeles, Calif., assignor to Radio Corporation of America. Combination photographic and magnetic sound record and producing same. 2,657,932, Nov. 3.

Blase, Edwin W., Carle Place, assignor to Chas. Pfizer & Co., Inc., New York, N. Y. Solvent extraction of oxytetracycline. 2,658,078, Nov. 3.

Bledsoe, Woodrow W., Dyersburg, Tenn. Cotton feed control system. 2,657,474, Nov. 3.

Bleecker, Edsell T., Denver, Colo. Process of and apparatus for combustion of liquid fuel, vaporization of liquids, and mixing of gaseous fluids. 2,657,745, Nov. 3.

Bletcher, James H., assignee: *See*—
Bletcher, Ralph E., and Bentley.

Bletcher, Pearl W., assignee: *See*—
Bletcher, Ralph E., and Bentley.

Bletcher, Ralph E., assignee: *See*—
Bletcher, Ralph E., and Bentley.

Bletcher, Ralph E., and C. H. Bentley, Los Angeles, Calif., assignors of ten per cent to R. E. Bletcher, twelve and one-half per cent to E. H. Bucknell, twelve and one-half per cent to M. Bucknell, ten per cent to P. W. Bletcher, twenty-five per cent to M. B. Liston, ten per cent to J. H. Bletcher, ten per cent to H. B. Skinner, and ten per cent to C. R. B. Robertson. Shower head. 2,657,954, Nov. 3.

Bletcher, Ralph E., Los Angeles, Calif. Isolating tube. 2,657,703, Nov. 3.

Blum, John E., El Cerrito, Calif., assignor to The Glidden Company, Cleveland, Ohio. Preparing hard butter from hydrogenated coconut oil and similar oils. 2,657,995, Nov. 3.

Bode, Harold E., Chicago, Ill., assignor to National Lead Company, New York, N. Y. Treatment of drilling muds with barium starch. 2,658,035, Nov. 3.

Bondurant, Kenneth E., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Terminal. 2,658,130, Nov. 3.

Bonham, Claude F., Ravenna, Ohio. Prostate gland massaging device. 2,657,687, Nov. 3.

Booser, Earl R., Lynn, and D. F. Wilcock, Marblehead, Mass., assignors to General Electric Company. Means for preventing oil creepage. 2,657,943, Nov. 3.

Borden Company, The, assignee: *See*—
Miollis, Raymond.

Borel, Joseph A., assignor to Societe Schneider and Cie, Paris, France. Automatic regulator for compressors. 2,657,850, Nov. 3.

Borg-Warner Corporation, assignee: *See*—
Schanzlin, Ernest H., and Oster.
Wolfe, Charles V.
Zeidler, Reinhold C.

Boroughs, Frank S., Elmhurst, assignor to Arrow Fastener Co., Inc., Brooklyn, N. Y. Hand tacker. 2,657,384, Nov. 3.

Borth, Paul F., Park Forest, Ill., assignor to R. R. Donnelley & Sons Company. Dot comparator. 2,657,611, Nov. 3.

Bouwman, Wicher K.: *See*—
Muller, Hendrik L., and Bouwman.

Bowser, Inc., assignee: *See*—
Mankin, Paul A.

Boykin, Robert O., Jr., Los Angeles, Calif. Perforation production tester. 2,657,576, Nov. 3.

Brady, James M., West Long Branch, N. J., assignor to the United States of America as represented by the Secretary of the Army. Shock reducing parachute. 2,657,885, Nov. 3.

Braithwaite, Charles H., Jr., Wood River, and G. A. Martin and R. E. Sutton, East Alton, Ill., assignors to Shell Development Company, San Francisco, Calif. Fuel oils. 2,657,984, Nov. 3.

Brakel, Lewis H.: *See*—
Tripp, John G., Brakel, and Gould.

Brancke, Carl A., North East, Pa., assignor to General Electric Company. Power system. 2,658,152, Nov. 3.

Brancke, Carl A., North East, Pa., assignor to General Electric Company. Prime mover starting and shutdown system. 2,658,153, Nov. 3.

Brancke, Carl A., North East, and T. J. Warrick, Erie, Pa., assignors to General Electric Company. Prime mover starting system. 2,658,154, Nov. 3.

Brandenfels, Carl, St. Helens, Oreg. Scalp and body stimulator. 2,657,686, Nov. 3.

Brandt, Carl D.: *See*—
Dudley, John S., and Brandt.

Brant, Joseph H.: *See*—
Reed, Raymond E., Brant, and Olson.

Braun, Lucien, assignee: *See*—
Margand, Louis.

Breazeale, Francis B., Hendersonville, assignor to American Enka Corporation, Enka, N. C. Thread winding apparatus. 2,657,868, Nov. 3.

Bridgeport Fabrics, Inc., assignee: *See*—
Spraragen, Louis.

Brierly, Ralph C., Narberth, Pa. Air control ring. 2,657,741, Nov. 3.

Briggs, Allan L., assignor to Blackstone Corporation, Jamestown, N. Y. Liquid discharge device for washing machines. 2,658,830, Nov. 3.

British Celanese Limited, assignee: *See*—
Johnson, Edgar B., and Webster.
Upton, Edward J.

British Overseas Airways Corporation, assignee: *See*—
Carreyette, Jack.

Britt, Fred R., Chattanooga, Tenn. Safety covering for tie-rod ends. 2,657,945, Nov. 3.

Brockway, Scott A., Venice, Calif. Table shrine 2,657,966, Nov. 3.

Brodhacker, John W.: *See*—
Stengel, Leonard A., and Brodhacker.

Brodhun, John H., Birmingham, Mich. Machine tool of the screw machine type. 2,657,453, Nov. 3.

Brogren, Axel V., assignor to Parsons Corporation, Detroit, Mich. Battery hold-down frame and forming same. 2,657,756, Nov. 3.

Brouwer, Pieter H. J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Low-power hub dynamo. 2,658,157, Nov. 3.

Brown, Francis A., Saugus, Mass., assignor to General Electric Company. Portable gear tooth checking instrument. 2,657,469, Nov. 3.

Brown, Laurie O., Oamaru, Otago, and T. J. McKee, Port Mapua, Nelson, New Zealand. Production of fine aqueous dispersion of sulfur. 2,658,016, Nov. 3.

Brown, Raymond L.: *See*—
Price, Theodore R., and Brown.

Browne, Paul W., Roodhouse, and D. M. Piper, Greenfield, Ill. Disk carrying trailer. 2,657,938, Nov. 3.

Browning, Val A., Ogden, Utah. Trigger safety for firearms. 2,657,490, Nov. 3.

Bruffey, Carroll W., Charlottesville, Va. Apparatus for raising and supporting a lawn mower and including blade sharpening means. 2,657,502, Nov. 3.

Brundage, Albert P., deceased, Walden, N. Y.: I. D. Brundage, administratrix of said A. P. Brundage. Apparatus for fishing through ice. 2,657,494, Nov. 3.

Brundage, Isabel D., administratrix: *See*—
Brundage, Albert P.

Bucknell, Ernest H., assignee: *See*—
Bletcher, Ralph E., and Bentley.

Bucknell, Mabel, assignee: *See*—
Bletcher, Ralph E., and Bentley.

Buckwalter, Howard M.: *See*—
Cuthbertson, George R., Buckwalter, and Danielson.

Buda Company, The, assignee: *See*—
Richards, Dwight.

Budd Company, The, assignee: *See*—
Pagon, Garrett D.

Buhrendorf, Frederick G., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic recording-reproducing device. 2,658,114, Nov. 3.

Bulst, Colin, London, England, assignor to Coalite and Chemical Products Limited. Pitch mastic for flooring. 2,658,005, Nov. 3.

Bulliet, Leander J.: *See*—
Johnson, Frederick M., and Bulliet.

Bullwinkle, Walter H., Fairbanks, Alaska. Mechanism for handling and elevating discrete material. 2,657,813, Nov. 3.

Burch, Alvan V.: *See*—
Rude, John F., and Burch.

Burch Plow Works, Inc., assignee: *See*—
Rude, John F., and Burch.

Burchett, Ray L., East Orange, assignor to Ronson Art Metal Works, Inc., Newark, N. J. Detachable valve closure. 2,657,563, Nov. 3.

Burgess Battery Company, assignee: *See*—
Coleman, Joseph J., and Kurlandsky.

Burkardt, Anton F., New York, N. Y., assignor to Sativa Corporation. Preshrunk yarn or fabric. 2,657,717, Nov. 3.

Burnett, Richard T., assignor to Bendix Aviation Corporation, South Bend, Ind. Fluid transmission. 2,657,592, Nov. 3.

Burney, Donald E., Griffith, Ind., and W. J. Cerveny, Lansing, assignors to Standard Oil Company, Chicago, Ill. Selective hydrogenation of oxo-process aldehydes. 2,658,083, Nov. 3.

Burnight, Thomas R., Washington, D. C., and R. A. Emmett, Jr., U. S. Navy. Synchronizing system. 2,658,196, Nov. 3.

Burrell, Robert, West Haven, Conn. Target baseball game. 2,657,931, Nov. 3.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—
Hitchings, George H., Russell, and Falco.

Butterworth, Edward, and E. J. Hinchcliffe, assignors to Begwaco Meters Limited, Farnworth, England. Dry gas meter. 2,657,578, Nov. 3.

Buxton, Incorporated, assignee: *See*—
Morrell, Clyde E.

C. A. V. Limited, assignee: *See*—
Evans, Fraser M.

Cadman, Harold O., Rockton, Ill., assignor, by mesne assignments, to Gardner Machine Company. Feed mechanism for grinding machines. 2,657,504, Nov. 3.

Calabrese, Carl J., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Roll of pressure-sensitive adhesive striping tape. 2,657,795, Nov. 3.

Calay Manufacturing Co., assignee: *See*—
Manning, Oscar.

California Packing Corporation, assignee: *See*—
Dunn, Guy A.

California Research Corporation, assignee: *See*—
Tripp, John G., Brakel, and Gould.

Canning, Raleigh O.: *See*—
Gillerstrom, Hilmer A., and Canning.

Carbary, Richard J., Erie, Pa., assignor to General Electric Company. Spring terminal fitting. 2,657,420, Nov. 3.

Carlson, Harold A., Brentwood, and J. T. W. Moseley, Richmond Heights, assignors to Carter Carburetor Corporation, St. Louis, Mo. Stabilizer for overrunning thermostatic controls. 2,657,862, Nov. 3.

Carlson, Henry E., New Britain, Conn. Folding toothbrush. 2,657,412, Nov. 3.

Carpenter, Jack K., executor: *See*—
Champion, William R.

Carpenter, Paul G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Tool for impinging liquid against inner walls of chambers. 2,657,753, Nov. 3.

Carran, Walter E., Jr., Medford, Mass. Tabular device for musical modulation. 2,657,610, Nov. 3.

Carreyette, Jack, Clifton, Bristol, assignor of one-half to British Overseas Airways Corporation, Brentford, England. Aircraft load computing apparatus. 2,657,857, Nov. 3

Carrier Engineering Company Limited, assignee : *See*—
Fowler, Alexander P.
Williams, Gethin, and Fowler.

Carter Carburetor Corporation, assignee : *See*—
Carlson, Harold A., and Moseley.

Carter, Harry B., Austin, Tex. Blade adjusting means for safety razors. 2,657,459, Nov. 3.

Carter, William, Company, The, assignee : *See*—
Smith, Irene P.

Case, Burgess C. : *See*—
Lindstrom, John, and Case.

Casey, J. B., and G. A. Smitherman, assignors to Woodward Iron Company, Woodward, Ala. Blast furnace monkey. 2,657,922, Nov. 3.

Castricum, Martin, Grosse Pointe, Mich., assignor to United States Rubber Company, New York, N. Y. Apparatus for testing flexible members. 2,657,573, Nov. 3.

Caswell, Arthur S., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. HV type key interlock. 2,658,170, Nov. 3.

Cella, G., Inc., assignee : *See*—
Rapisarda, Edward D.

Centre National de la Recherche Scientifique, assignee : *See*—
Barret, Pierre M. R.
Françon, Maurice M.

Cerino, Michael J., and E. F. Kingsley, assignors to Firm Blade Razor Company, Inc., Portland, Oreg. Razor blade. 2,657,460, Nov. 3.

Cerveny, William J. : *See*—
Burney, Donald E., and Cerveny.

Chamberlain, Richard K., assignor to Wingfoot Corporation, Akron, Ohio. Disk brake. 2,657,772, Nov. 3.

Champion, Mary A., executrix : *See*—
Champion, William R.

Champion, William R., deceased, late of Croxley Green, England, by M. A. Champion, Croxley Green, and J. K. Carpenter, Watford, England, executors. Tool for making a circumferential bead or swage of predetermined size in metal pipes. 2,657,733, Nov. 3.

Charnwood Engineering Company Limited, The, assignee : *See*—
Landucci, Frank A., and Rusted.

Cheatham Electric Switching Device Co., Incorporated, assignee : *See*—
Stolp, Samuel S.

Chemieprodukte G. m. b. H., assignee : *See*—
Orno-Ornfeldt, Eduard.

Chempatents, Inc., assignee : *See*—
Landau, Ralph, and Egbert.

Cherry-Burrell Corporation, assignee : *See*—
Huston, Charles R.

Chestley, John, Volant, Pa. Driving and supporting device for rotatable members. 2,657,586, Nov. 3.

Chicago Bridge & Iron Company, assignee : *See*—
Moyer, Frederick D.

Choice, Frank C., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe press. 2,657,406, Nov. 3.

Chouinard, Alfred F., and J. B. La Pota, assignors to National Cylinder Gas Company, Chicago, Ill. Torch for cutting stainless steel. 2,657,650, Nov. 3.

Chrysler Corporation, assignee : *See*—
Newton, Alwin B.
Sturtevant, Mark J.

Church Mart, Inc., The, assignee : *See*—
Gross, Frank J.

Cier, Harry E. : *See*—
Schutze, Henry G., and Cier.

Cines, Martin R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Separating ethan from hydrocarbon mixtures. 2,657,761, Nov. 3.

Cissell, W. M., Manufacturing Company, assignee : *See*—
Richterkessing, Frank H.

City Auto Stamping Company, The, assignee : *See*—
Faust, Charles L., and Hespenheide.

Clark, Harry F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Electrical apparatus. 2,658,175, Nov. 3.

Clayton Manufacturing Company, assignee : *See*—
Arant, Perry.

Cleveland Fuel Equipment Company, assignee : *See*—
Stein, Richard R.

Coalite and Chemical Products Limited, assignee : *See*—
Buist, Colin.

Cochran, John F., and J. I. Middleton, Long Beach, Calif., and N. D. Jaques, Lafayette, La. Insert for drilling strings. 2,657,907, Nov. 3.

Colburn, Lloyd L., Capitola, Calif. Pencil. 2,657,670, Nov. 3.

Cole, R. D., Manufacturing Co., assignee : *See*—
Blackburn, Bryan.

Coleman, Gordon A., Wyndmoor, R. B. Greene, and J. H. Merriam, Philadelphia, Pa., S. P. Miller, Scarsdale, N. Y., and R. F. Shannon, Conneaut Lake, Pa., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Continuous resin process. 2,658,054, Nov. 3.

Coleman, Joseph J., Freeport, and S. Kurlandsky, Rock Island, assignors to Burgess Battery Company, Freeport, Ill. Dry battery with conductive tape intercell connections. 2,658,098, Nov. 3.

Coles, Robert L., Cleveland, Ohio. Fishing rod. 2,657,493, Nov. 3.

Colgate-Palmolive-Peet Company, assignee : *See*—
Ledgett, Lowell A., Deane, and Mahoney.

Collins, Lowell J., Oakland, Calif. Elevating and dumping apparatus. 2,657,815, Nov. 3.

Columbiana Boiler Company, assignee : *See*—
Barrow, James R.

Combustion Engineering, Inc., assignee : *See*—
Skinner, Floyd H.

Commercial Solvents Corporation, assignee : *See*—
Harned, Roger L.
Stengel, Leonard A., and Brodhacker.
Tindall, John B., and Fraza.

Common, James L. : *See*—
Rusoff, Irving I., and Common.

Commonwealth Engineering Company of Ohio, The, assignee : *See*—
Toulmin, Harry A., Jr.
Wenzelberger, Elwood P.

Conkling, William C., assignor to Richmond Manufacturing Company, Lockport, N. Y. Mechanism for producing gyratory motion. 2,657,582, Nov. 3.

Conmar Products Corporation, assignee : *See*—
Bashover, Albert.

Continental Motors Corporation, assignee : *See*—
McGowen, Frank.
Powell, Robert J.

Conwell, Charles B., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Hollow type aeronautical propeller. 2,657,754, Nov. 3.

Cook, Robert R., Springfield, and A. C. Hatch, Longmeadow, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Sand mold binders. 2,657,974, Nov. 3.

Coppage, Avery S., San Antonio, assignor of one-third to J. R. Andre, Galveston, Tex. Automobile Venetian blind and control means therefor. 2,657,923, Nov. 3.

Core, Clark D., Seguin, and E. N. Jones, Pettus, Tex., said Core assignor to Texas Acidizers, Incorporated, Seguin, Tex. Composition for preventing deposition and corrosion in oil well equipment. 2,658,036, Nov. 3.

Corngold, Jacob : *See*—
Duffy, James J., and Corngold.

Courtaulds Limited, assignee : *See*—
Merriman, Horace B.

Cowan, R. Guy, Fayetteville, assignor to Onondaga Pottery Company, Syracuse, N. Y. Rim structure for flat tableware. 2,657,558, Nov. 3.

Coxe, Whitwell W., Jr., Bristol, Tenn., assignor to Radio Corporation of America. Mobile radio cabinet structure. 2,658,101, Nov. 3.

Cradduck, Henry E. : *See*—
Bennert, Malcolm O., and Cradduck.

Crandon, Frank P., and H. C. Leonard, Acushnet, Mass. Cranberry vine trimmer. 2,657,512, Nov. 3.

Crandon, Harry D., Woodstock, Conn., assignor to American Optical Company, Southbridge, Mass. Hand covering. 2,657,391, Nov. 3.

Crane Co., assignee : *See*—
Schmidt, Edward G., and Stone.

Creamer, Charles C., Minneapolis, Minn. Acoustic block or tile. 2,657,759, Nov. 3.

Cremins, William F. : *See*—
Tichenor, Edwin L., and Cremins.

Crenshaw, Charles R. L. : *See*—
Crenshaw, Elizabeth and C. R. L.

Crenshaw, Elizabeth, Inglewood, and C. R. L. Crenshaw, Los Angeles, Calif. Ironing board extension leaf. 2,657,485, Nov. 3.

Crippen, Claude C., Arlington, Fla. Milk can container. 2,657,828, Nov. 3.

Crompton & Knowles Loom Works, assignee : *See*—
Holmes, Elbridge R.

Cross, Bert S., Bloomington Township, Hennepin County, and G. P. Netherly, Afton Township, Washington County, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Transfer coating. 2,658,007, Nov. 3.

Crow, Rector, Los Angeles, Calif. Closure, operating, and controlling device. 2,657,925, Nov. 3.

Crowe, John J., Westfield, N. J., assignor to Air Reduction Company, Incorporated. Apparatus for open butt welding metal workpieces. 2,657,660, Nov. 3.

Cundiff, Winston H. : *See*—
Montgomery, John E., and Cundiff.

Curran, John, Limited, assignee : *See*—
Whitehead, Cyril D.

Curtiss-Wright Corporation, assignee : *See*—
Barrett, Hillard E., Hall, and Schaffer.
Cushman, Maurice E.
Lyons, Albert E.
Tichenor, Edwin L., and Cremins.

Cushman, Cecil A., Redlands, and W. Harrison, Jr., San Bernardino, Calif. Multiple pneumatic protection pad. 2,657,385, Nov. 3.

Cushman, Maurice E., Verona, N. J., assignor to Curtiss-Wright Corporation. Variable pitch propeller. 2,657,755, Nov. 3.

Cuthbertson, George R., and H. M. Buckwalter, Detroit, and A. C. Danielson, Royal Oak, Mich., assignors to United States Rubber Company, New York, N. Y. Pneumatic tire and making same. 2,657,730, Nov. 3.

Daanen, Sylvester J., and T. H. Lutsey, Green Bay, Wis. Forming head and forming ice-cream tarts. 2,657,649, Nov. 3.

Dahl, Ernest A., Skokie, Ill. Pile separator. 2,657,692, Nov. 3.

Daimler-Benz Aktiengesellschaft, assignee : *See*—
Nallinger, Friedrich K. H.

Dalemill Company, The, assignee : *See*—
Eade, Carleton W., and Schug.

Daniels, Howard G., Dearborn, and E. C. Pickard, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Spring seat structure. 2,657,740, Nov. 3.

Danielson, Arthur C. : *See*—
Cuthbertson, George R., Buckwalter, and Danielson.

Daugherty, James G. : *See*—
Hadley, Raymond F., Daugherty, and Young.

Davidson, Frank M., Glade, Kans. Swingable vehicle attached ladder. 2,657,940, Nov. 3.

Davis & Furber Machine Company, assignee : *See*—
Koolstra, John A.

Davis, Ralph A. : *See*—
Ruh, Robert P., and Davis.

Davison, Alan, and R. Threadgold, assignors to Automatic Telephone & Electric Company Limited, Liverpool, England. Electrical signaling system. 2,658,112, Nov. 3.

Davisson, Jacob W. : *See*—
Shull, Gilbert M., Kita, and Davisson.

Dawson, Robert A. J., Houston, Tex. Rowel type pipe cleaning tool. 2,657,409, Nov. 3.

Dazzi, Joachim, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Vinyl chloride polymers plasticized with cyanoethyl ethers of S-(2-arylethyl)-2-mercaptoethanols. 2,658,047, Nov. 3.

Deane, Charles W. : *See*—
Ledgett, Lowell A., Deane, and Mahoney.

De Ano, John F., Melrose Park, Ill., assignor to The Rauland Corporation. Image-reproducing device. 2,658,161, Nov. 3.

Dearborn Motors Corporation, assignee : *See*—
Garmager, Curt H.
Lock, Douglas S., and Wilson.
McNally, Harold T.

De Armas, Justo A., Havana, Cuba. Lens drilling machine. 2,657,596, Nov. 3.

De Beukelaer, Frank L. : *See*—
Young, Harland H., and De Beukelaer.

De Boisblanc, Deslonde R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Vacuum tube voltmeter. 2,658,180, Nov. 3.

De Cola, Rinaldo E., Park Ridge, assignor to Hazeltine Research, Inc., Chicago, Ill. Energy-supply system. 2,658,163, Nov. 3.

Deere & Company, assignee : *See*—
Morrison, Charles S.
Neighbour, Leonard B.
Young, Austin E.

Deere, John, Van Brunt Company, assignee : *See*—
Starr, John H.

Demeulenaere, Marcel, New York, N. Y. Cash register. 2,657,854, Nov. 3.

Dental Perfection Company, assignee : *See*—
Lochridge, Edwin H.

Depp, Wallace A., Mountainside, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Multicathode glow discharge device. 2,658,166, Nov. 3.

Derbyshire, Alfred, and J. F. Naylor, Newton-le-Willows, assignors to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England. Application of plastic substances to biscuits and the like articles. 2,657,646, Nov. 3.

Detroit Controls Corporation, assignee : *See*—
Dillman, Earnest J.
Von Wangenheim, Adolf.

Detroit Harvester Company, assignee : *See*—
Sargent, Albert M.

Dillman, Earnest J., Detroit, Mich., assignor to Detroit Controls Corporation. Actuating mechanism. 2,657,711, Nov. 3.

Dillman, Earnest J., assignor to Detroit Controls Corporation, Detroit, Mich. Refrigeration controlling valve. 2,657,861, Nov. 3.

Distillers Company Limited, The, assignee : *See*—
Hall, Reginald H.

Dittman, Leslie A., Corning, and P. E. Dittman, Manhasset, N. Y. Roll type paper dispensing cabinet. 2,657,873, Nov. 3.

Dittman, Paul E. : *See*—
Dittman, Leslie A., and P. E.

Donnelley, R. R., & Sons Company, assignee : *See*—
Borth, Paul F.

Dorne, Arthur, and D. Lazarus, Cambridge, Mass., assignors to the United States of America as represented by the Secretary of War. Cavity antenna. 2,658,145, Nov. 3

Dornte, Ralph W., Abington, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Recovering sulfuric acid from mixtures thereof with pyridine monocarboxylic acid bisulfates. 2,658,030, Nov. 3.

Dorsey, Joseph W. : *See*—
Liebman, Arno J., and Dorsey.

Douglas, Aubrey, Saltford, Somerset, England. Jet propulsion and boundary layer control means. 2,657,881, Nov. 3.

Dow Chemical Company, The, assignee : *See*—
Beman, Floyd L.
Fischback, Bryant C., and Harris.
Leontis, Thomas E., and Pashak.
Ruh, Robert P., and Davis.
Werkema, Thomas E.

Dowden, Ernest J., Ames, Iowa. Speed registering device. 2,657,749, Nov. 3.

Dravo Corporation, assignee : *See*—
Liebman, Arno J., and Dorsey.

Dressel, Jack, Jr. : *See*—
Spoon, Walter O., and Dressel.

Dresser Equipment Company, assignee : *See*—
Bennett, John D.

Drew, John, Kent, assignor to National Rubber Machinery Company, Akron, Ohio. Garbage grinder control mechanism and control means therefor. 2,657,397, Nov. 3.

Driscoll, Paul A., assignor to Bendix Aviation Corporation, South Bend, Ind. Automatic brake adjustment. 2,657,773, Nov. 3.

Dubois, Robert : *See*—
Arbeit, Pierre, Dubois, and Lambert.

Dudley, John S., Douglas, and C. D. Brandt, assignors to Whitin Machine Works, Whitinsville, Mass. Mechanism for bodily rotating silver cans in fixed orientation. 2,657,435, Nov. 3.

Duffy, James J., and J. Corngold, Los Angeles, Calif. Convertible chair. 2,657,736, Nov. 3.

Du Mont, Allen B., Laboratories, Inc., assignee : *See*—
Grunwald, Werner J.
Smith, Harry R.

Duncan Electric Manufacturing Company, assignee : *See*—
Holmes, Henry B., and Roe

Dunham, Thomas M., assignor to Aurora Equipment Company, Aurora, Ill. Bead construction. 2,657,775, Nov. 3.

Dunn, Guy A., Oakland, assignor to California Packing Corporation, San Francisco, Calif. Fruit processing machine. 2,657,725, Nov. 3.

Du Pont, E. I., de Nemours and Company, assignee : *See*—
Alderson, Thomas.
Sprauer, Jerome W.
Torrence, Maynard F.
Walsh, Robert H., and Pockman.

Durakool, Inc., assignee : *See*—
Weimer, Glen L.

Duschinsky, Robert, Essex Fells, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Substituted carbamic acid esters. 2,658,067, Nov. 3.

Eade, Carleton W., Millidale, Conn., and W. W. Schug, Hudson, N. Y., said Eade assignor, by mesne assignments, to The Dalemill Company, Waterbury, and said Schug assignor, by mesne assignments, to Emhart Manufacturing Company, Hartford, Conn. Blank forming apparatus. 2,657,403, Nov. 3.

Eadie, Edward M., Jr., Westfield, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Electrical measuring instrument. 2,658,179, Nov. 3.

Earl, Allan G. : *See*—
Reid, John, and Earl.

Earle, Wilton R., Burtonsville, Md., and K. K. Sanford, Washington, D. C., assignors to the United States of America as represented by the Administrator of the Federal Security Agency. Single tissue cell culturing procedure. 2,658,021, Nov. 3.

Eberly, James : *See*—
Bender, Joseph, Jr., Eberly, and Tipple.

Eby, Thomas J., assignee : *See*—
Fleming, Frank E.

Ecoff, Francis A., Richmond Heights, Mo., assignor to American Car and Foundry Company, New York, N. Y. Rail car panel. 2,657,645, Nov. 3.

Edstrom, Gunnar G., assignee : *See*—
Johansson, Karl L. B.

Edwards, Robert A., Schenectady, N. Y., assignor to General Electric Company. Number converter. 2,657,856, Nov. 3.

Edwards, Thomas : *See*—
Greenland, Leonard S., and Edwards.

Egbert, Robert B. : *See*—
Landau, Ralph, and Egbert.

Eichmann, Theophil, Berne, Switzerland, assignor to G. B. Scarlett, Kennett Square, Chester County, Pa. Method and apparatus for maintaining temperature and humidity constant. 2,657,543, Nov. 3.

Eisbein, Walter, Stuttgart Bad Cannstatt, Germany. Developing apparatus. 2,657,618, Nov. 3.

Eldridge, John C., Bridgewater, and F. A. Flaherty, Boston, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Last slip for removing shoes from lasts. 2,658,004, Nov. 3.

Electric Auto-Lite Company, The, assignee : *See*—
Launder, James M.

Electroline Manufacturing Company, assignee : *See*—
Morgenstern, Joseph, and Morgenstern.

Electrolux Corporation, assignee : *See*—
Price, Theodore R., and Brown.

Electronic Secretary, Inc., The, assignee: *See*—
Zimmermann, Joseph J.

Elliott, Harmon P., Watertown, Mass. Combined stencil-moistening and stencil-blotting apparatus. 2,657,663, Nov. 3.

Elliott, Harold V., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ignition timer. 2,657,556, Nov. 3.

Elsaesser, Frank S., Cincinnati, Ohio. Machine for making Hamburg steak patties. 2,657,423, Nov. 3.

Emerson, William S., and R. I. Longley, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Preparation of ether-alcohols. 2,658,081, Nov. 3.

Embart Manufacturing Company, assignee: *See*—
Eade, Carleton W., and Schug.
Holstebroe, Kaye, Ardell, and Wimmer.
Merrill, Donald G.

Emmett, Robert A., Jr.: *See*—
Burnight, Thomas R., and Emmett.

English, Charles L., Tulsa, Okla., assignor, by mesne assignments, to Byron Jackson Co., Los Angeles, Calif. Rotary pump. 2,657,638, Nov. 3.

Eppinger, Louis J., Detroit, Mich. Fish lure. 2,657,495, Nov. 3.

Epstein, Joshua, assignor to Acme Coppersmithing & Machine Company, Oreland, Pa. Bottom-flushing apparatus for lauter tubs. 2,657,804, Nov. 3.

Erickson, Anton F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Seal. 2,657,825, Nov. 3.

Erickson, Clifford E., Chicago, Ill., assignor to General Electric Company. Clothes drying machine. 2,657,475, Nov. 3.

Ericson, Harold L., Chicago, Ill. Supporting device. 2,657,888, Nov. 3.

Erkkila, Andrew, assignor to Independent Lock Company, Fitchburg, Mass. Night latch bolt stop. 2,657,946, Nov. 3.

Etablissements Merlin & Gerin, assignee: *See*—
Latour, André.

Ethyl Corporation, assignee: *See*—
Hill, Eugene F., and Osip.
Hill, Eugene F., and Welp.
Hinkamp, James B.

Euclid Road Machinery Co., The, assignee: *See*—
Armington, Raymond Q., and Klun.

Evans, Fraser M., assignor to C. A. V. Limited, Acton, London, England. Liquid fuel pump. 2,657,631, Nov. 3.

Evans, Harold, Niagara Falls, Ontario, Canada. Sawing machine for stone and hard plastic material. 2,657,680, Nov. 3.

Evans, Herman B., U. S. Navy. Finger control attachment wrench. 2,657,603, Nov. 3.

Evans, John E., Oak Hill, Ohio, and F. E. Rieke, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Generator coupling circuit. 2,658,148, Nov. 3.

Evans, John E., Houston, Tex., R. C. Fletcher, Cambridge, and F. F. Rieke, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Magnetron tube with cavity resonator. 2,658,165, Nov. 3.

Evenson, Christopher B., Cottage Grove, Oreg. Hydraulic wedge. 2,657,904, Nov. 3.

Everett, Arthur C., Brighton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Bottle labeling machine. 2,657,816, Nov. 3.

Evering, Bernard L.: *See*—
Peters, Edwin F., and Evering.

Extruded Plastics, Inc., assignee: *See*—
Slaughter, Charles E.

Eyelet Specialty Company, The, assignee: *See*—
Isele, Louis E.

Fabel, Fred P., Buffalo Lake, Minn. Servicing cart for baby chick batteries. 2,657,936, Nov. 3.

Failing, George E., assignor to The George E. Failing Supply Company, Enid, Okla. Breakout table. 2,657,908, Nov. 3.

Failing, George E., Supply Company, The, assignee: *See*—
Failing, George E.

Fairhurst, John T. and W., Forest Hills, N. Y. Sliding partition. 2,657,436, Nov. 3.

Fairhurst, Walter: *See*—
Farhurst, John T. and W.

Falco, Elvira A.: *See*—
Hitchings, George H., Russell, and Falco.

Falk, Olaf, Oslo, Norway, assignor to Askania-Werke Aktiengegellschaft, Berlin, Friedenau, Germany. Apparatus for measuring the level of liquids. 2,657,577, Nov. 3.

Fann, James D., Houston, Tex. Viscosity measuring device. 2,657,572, Nov. 3.

Fausek, Arthur J. and I. F., Clayton, Mo. Valve. 2,657,704, Nov. 3.

Fausek, Irwing F.: *See*—
Fausek, Arthur J. and I. F.

Faust, Charles L., and W. G. Hespenheide, Columbus, assignors, by mesne assignments, to The City Auto Stamping Company, Toledo, Ohio. Electrodeposition of bright copper-tin alloy. 2,658,032, Nov. 3.

Faust, Jacob, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Injection molding machine. 2,657,429, Nov. 3.

Fay, Charles H., and R. R. Goodell, Houston, Tex., assignors to Shell Development Company, San Francisco, Calif. Gravity meter. 2,657,581, Nov. 3.

Faye, Louis, Paris, France. Material for constructing concrete walls. 2,657,448, Nov. 3.

Federal Security Agency, United States of America as represented by the Administrator of the, assignee: *See*—
Earle, Wilton R., and Sanford.

Ferguson, Llewellyn R., Stamford, Conn., assignor to General Foods Corporation, New York, N. Y. Gelatin composition. 2,657,996, Nov. 3.

Ferris, Donald E., St. John, New Brunswick, Canada. Electrolytic method and apparatus for sterilizing water. 2,658,033, Nov. 3.

Fiet, Owen O., Oaklyn, and R. M. Scudder, Westmont, N. J., assignors, to Radio Corporation of America. Ultrahigh-frequency broadcast antenna system. 2,658,143, Nov. 3.

Filliette, Raymond, Rueil-Malmaison, assignor to La Télémécanique Electrique (Société Anonyme), Seine, France. Means for adjusting thermostatic relays. 2,658,126, Nov. 3.

Fincke, John K., San Jose, Calif., assignor to Monsanto Chemical Company, St. Louis, Mo. 1[2-(alkylsulfonyl) ethyl]pyridinium halides and their use as herbicides. 2,657,988, Nov. 3.

Finn, Kenneth F., Omaha, Nebr. Adjusting and latch means for slidable side jaw wrenches. 2,657,606, Nov. 3.

Fiorino, Pasquale, Norwood, R. I., assignor to Universal Winding Company, Boston, Mass. Combined yarn-guide and tension device. 2,657,878, Nov. 3.

Firm Blade Razor Company, Inc., assignee: *See*—
Cerino, Michael J., and Kingsley.

Fischback, Bryant C., Walnut Creek, and G. H. Harris, Richmond, Calif., assignors to The Dow Chemical Company, Midland, Mich. Extraction of thioglycolic acid from acidic aqueous media. 2,658,074, Nov. 3.

Fisher, Ed W.: *See*—
Sherman, John M., and Fisher.

Flaherty, Francis A.: *See*—
Eldridge, John C., and Flaherty.

Flannery, James N.: *See*—
Armitage, Joseph B., and Flannery.

Fleming, Frank E., Little Rock, assignor of fifty per cent to T. J. Eby, North Little Rock, Ark. Soil auger. 2,657,910, Nov. 3.

Fletcher, Robert C.: *See*—
Evans, John E., Fletcher, and Rieke.

Flight Refuelling Limited, assignee: *See*—
Latimer-Needham, Cecil H.

Flint & Walling Manufacturing Company, Incorporated, assignee: *See*—
Lung, Kenneth R.

Folmsbee, Clyde H., Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Valve with resilient pressure actuated seal. 2,657,897, Nov. 3.

Ford, Charles J., assignor to Wingfoot Corporation, Akron, Ohio. Inflatable fabric segment of curved configuration. 2,657,716, Nov. 3.

Ford, Hannibal C., Jamaica, N. Y., assignor to The Sperry Corporation. Fire control apparatus. 2,657,464, Nov. 3.

Ford, Harry S.: *See*—
Siering, Robert L., and Ford.

Ford Motor Company, assignee: *See*—
Daniels, Howard G., and Pickard.

Forsberg, Harold S., Shelton, Conn. Adjustable power-driven circular saw. 2,657,719, Nov. 3.

Forsyth, Robert H., Fair Haven, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Hanger construction for anchor tiles of refractory arches. 2,657,651, Nov. 3.

Fort Orange Paper Company, assignee: *See*—
Metzger, Henry L.

Forwald, Haakon, Valhalla, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Compressed air circuit breaker. 2,658,128, Nov. 3.

Fowler, Alexander P., assignor to Carrier Engineering Company Limited, London, England. Apparatus for liquid treatment of vehicle bodies. 2,657,666, Nov. 3.

Fowler, Alexander P.: *See*—
Williams, Gethin, and Fowler.

Fox, Charles E. K., New Stanton, assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa. Separating apparatus for springs and the like. 2,657,812, Nov. 3.

Fox, Martin, Chicago, Ill., assignor to The Seng Company. Folding leg structure. 2,657,963, Nov. 3.

Françon, Maurice M., assignor to Centre National de la Recherche Scientifique, Paris, France. Phase contrast observation. 2,657,614, Nov. 3.

Fransen, David, Wichita, Kans. Heater for stock tanks. 2,657,682, Nov. 3.

Fraza, John W., Jr.: *See*—
Tindall, John B., and Fraza.

Frazier, Bert, Pittsburgh, Pa. Portable saw-filing clamp. 2,657,594, Nov. 3.

Frei, Arthur J., Sr., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Freezing pan. 2,657,548, Nov. 3.

Frey, Walter: *See*—
Saladin, Otto, Schornstein, and Frey.

Frishman, Morton, assignee: *See*—
Sweetser, Bert M.

Frost, Earl S., Arapahoe, Nebr. Tackle box seat. 2,657,734, Nov. 3.

Fry, Horace P., Jr., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del. Drying wound textile package. 2,657,472, Nov. 3.

Fuhse, Theresa, Bradley Beach, N. J. Toolbox. 2,657,657, Nov. 3.

Fürst, Stefan, Munchen-Gladbach, assignor to W. Reiners, Waldniel, Niederrhein, Germany. Thread winding machine, particularly cop winding frame. 2,657,867, Nov. 3.

Furzehill Laboratories Limited, assignee: *See*—
Milsom, Frederick R.

Gaines, Lloyd L., Lawrence, Kans. Fishhook sharpener. 2,657,503, Nov. 3.

Gallagher, Charles J., Schenectady, and S. Ruthberg, Middletown, N. Y., assignors to the United States of America as represented by the Secretary of War. Gas tube noise generator. 2,658,149, Nov. 3.

Gardner Machine Company, assignee: *See*—
Cadman, Harold O.

Garmager, Curt H., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Tractor hydraulic system. 2,657,534, Nov. 3.

Garrett, James W., assignor to Selas Corporation of America, Philadelphia, Pa. Quenching apparatus. 2,657,698, Nov. 3.

Garrick, Phillip, Miami, Fla. Collapsible and expansible shelving. 2,657,810, Nov. 3.

Gatzke, Charles, Des Plaines, Ill. Machine for splitting concrete blocks, building stones, and the like. 2,657,681, Nov. 3.

Gazda, Antoine, Providence, R. I. Self-winding auto clock. 2,657,526, Nov. 3.

Geiser, Nikolaus, and H. Kolling, Duisburg-Hamborn, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen Holten, Germany. Production of olefins by dechlorination of alkyl chlorides. 2,658,090, Nov. 3.

Gelly, Louis: *See*—
Sawyer, Hilon W., and Gelly.

General Aniline & Film Corporation, assignee: *See*—
Schildknecht, Calvin E.
Wallace, William E., and Williams.

General Electric Company, assignee: *See*—
Booser, Earl R., and Wilcock.
Brancke, Carl A.
Brancke, Carl A., and Warrick.
Brown, Francis A.
Carbary, Richard J.
Edwards, Robert A.
Erickson, Clifford E.
Gray, Robert L., and Grimshaw.
Moody, Charles W.
Nonken, Gordon C.
Pierce, Lowell J.
Schettler, William R.
Schroeder, George W.
Walker, Forrest A.
Warrick, Thurlow J.
Woodson, Thomas T.

General Foods Corporation, assignee: *See*—
Alison, Alexander S., and Atherton.
Ferguson, Llewellyn R.
Rusoff, Irving I., and Common.

General Industries Company, The, assignee: *See*—
Bender, Joseph, Jr., Eberly, and Tipple.

General Motors Corporation, assignee: *See*—
Bales, Max G.
Bondurant, Kenneth E.
Clark, Harry F.
Elliott, Harold V.
Erickson, Anton F.
Frei, Arthur J., Sr.
Geyer, Howard M.
Harrison, Walter D.
Kendall, Thomas L.
Kruszona, Raymond F.
Nichols, Charles A., and Riggs.
Oakley, Wilbur J.
Rossman, Edwin F.
Sampson, Frederick W.

General Register Corporation, assignee: *See*—
Webb, Christopher F.

General Sales Company of Cadillac, assignee: *See*—
Greeley, Leo O.

Gennari, Jervis J.: *See*—
Smith, Lowell L., and Gennari.

Gerber, J. J., Sheet Metal Works, Inc., assignee: *See*—
Gerber, Richard A.

Gerber, Richard A., assignor to J. J. Gerber Sheet Metal Works, Inc., Minneapolis, Minn. Distributor head for grain tubes. 2,657,782, Nov. 3.

Gerhard, August A., Wauwatosa, Wis., and W. A. Klemme, Broadview, Ill. Remotely controllable crankcase drain valve. 2,657,705, Nov. 3.

Gerken, John D., and H. V. Madden, Toledo, Ohio. Valve mechanism for beverage dispensing devices. 2,657,835, Nov. 3.

Geyer, Howard M., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Synchronized power transmitter. 2,657,539, Nov. 3.

Gibone Trust, assignee: *See*—
Schoch, Adrien.

Gibson, James L.: *See*—
Maker, Edwin J., and Gibson.

Gibson, Richard B., Glencoe, Mo. Whisky aging vat. 2,657,629, Nov. 3.

Gier, Francis T.: *See*—
Taglialerri, Frank P., and Gier.

Gilchrist, Everette V., Jackson Heights, N. Y. Utility tray. 2,657,967, Nov. 3.

Gillerstrom, Hilmer A., Arcadia, and R. O. Canning, Norwalk, Calif., assignors to Independent Pneumatic Tool Co., Aurora, Ill. Valve. 2,657,709, Nov. 3.

Gillette Company, The, assignee: *See*—
Reed, Raymond E., Brant, and Olson.

Gilreath, Lafayette E., assignor to L. G. Perkins, Fresno, Calif. Clod breaker. 2,657,619, Nov. 3.

Glasgow, Clarence O., assignor to National Tank Company, Tulsa, Okla. Horizontal separator. 2,657,760, Nov. 3.

Glidden Company, The, assignee: *See*—
Blum, John E.

Globe Company, The, assignee: *See*—
Swanback, John H., and Jensen.

Gluesenkamp, Earl W., Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Porous compositions utilizing N-carboxyamino-acid anhydride. 2,658,043, Nov. 3.

Goldshine, Melvyn, Flushing, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Cover operated display box. 2,657,793, Nov. 3.

Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Color micro-facsimile system. 2,658,102, Nov. 3.

Goodell, Richard R.: *See*—
Fay, Charles H., and Goodell.

Gora, Henry Z., Stratford, Conn., assignor, by mesne assignments, to Anchor Hocking Glass Corporation, Lancaster, Ohio. Closure making machine. 2,657,426, Nov. 3.

Goserud, Chester O., St. Paul, Minn. Oar lock. 2,657,401, Nov. 3.

Gottshall, Russel Y., and J. M. Roberts, Lansing, and L. M. Portwood, Okemos, Mich., assignors to The State of Michigan. Synnematin and producing the same. 2,658,018, Nov. 3.

Gould, George D.: *See*—
Tripp, John G., Brakel, and Gould.

Gozzoli, Giovanni, Bologna, Italy. Lubricated rotary joint for tire inflation. 2,657,731, Nov. 3.

Graham, George C., Ridgewood, N. J. Washing machine having flexible extractor and automatic control. 2,657,564, Nov. 3.

Graham, William T., Amarillo, Tex. Implement-seeder combination. 2,657,652, Nov. 3.

Grant, John C.: *See*—
Miller, De Mont G., and Grant.

Gravenhorst, Everett G.: *See*—
Kupiec, Harry P., and Gravenhorst.

Graves, Frederick G., Parma, assignor to J. W. Macklin, Cleveland, Ohio, trustee. Self-ignition internal-combustion engine. 2,657,677, Nov. 3.

Gray, Robert L., Schenectady, N. Y., and C. S. Grimshaw, Erie, Pa., assignors to General Electric Company. Condition responsive electric switch mechanism. 2,658,121, Nov. 3.

Graybill, Kenneth W., Elmhurst, and H. Sengebusch, Villa Park, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Switching apparatus. 2,658,111, Nov. 3.

Greathouse, Ira L., assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Wire twister. 2,657,718, Nov. 3.

Great Lakes Tractor Company, The, assignee: *See*—
Kantz, John J., Jr., and Lindell.

Greeley, Leo O., assignor to General Sales Company of Cadillac, Cadillac, Mich. Wheel unit mounting. 2,657,935 Nov. 3.

Greenbaum, Arthur, Bronx, assignor to Academy Electrical Products Corp., New York, N. Y. Electrical connector. 2,658,184, Nov. 3.

Greene, Richard B.: *See*—
Coleman, Gordon A., Greene, Merriam, Miller, and Shannon.

Greenland, Leonard S., Compton, Wolverhampton, and T. Edwards, Bilbrook, near Wolverhampton, assignors to H. M. Hobson Limited, London, England. Hydraulic pump. 2,657,634, Nov. 3.

Greenmun, Leo S., Avoca, N. Y. Solenoid-operated window regulator. 2,657,924, Nov. 3.

Greenwald, Irving J., assignee: *See*—
Spotswood, Robert E. L.

Greist Manufacturing Company, The, assignee: *See*—
Russell, Herbert H.

Grimshaw, Charles S.: *See*—
Gray, Robert L., and Grimshaw.

Griset, Ernest J., Jr., Asheville, assignor to American Enka Corporation, Enka, N. C. Abrading yarn. 2,657,522, Nov. 3.

Gross, Frank J., assignor to The Church Mart, Inc., Milwaukee, Wis. Garment. 2,657,389, Nov. 3.

Grosvenor, Benjamin, Pomfret, Conn., assignor to American Optical Company, Southbridge, Mass. Spectacle case. 2,657,791, Nov. 3.

Grunwald, Werner J., Maywood, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Focus circuit for cathode-ray tubes. 2,658,164, Nov. 3.

Gustine, Franklin H., Chicago, Ill. Spring actuated top. 2,657,498, Nov. 3.

Hadley, Raymond F., Drexel Hill, J. G. Daugherty, Norwood, and F. A. Young, Phoenixville, assignors to Sun Oil Company, Philadelphia, Pa. Pipeline cleaning and polishing device. 2,657,506, Nov. 3.

Haensel, Vladimir, Hinsdale, and L. Schmerling, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture and use of alumina-platinum catalysts. 2,658,028, Nov. 3.

Hagihara, Hikoichi: *See*—
Nishimitsu, Hiroshi, Nishikawa, and Hagihara.

Haigh, Randolph, Princeton, British Columbia, Canada. Dredge suction point. 2,657,479, Nov. 3.

Haines, William J., and M. H. Kuizenga, assignors to The Upjohn Company, Kalamazoo, Mich. Bio-oxidation of steroids. 2,658,022, Nov. 3.

Haines, William T., Mountain Lakes, N. J., and J. B. Newsom, Great Neck, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Crossbar tandem office for telephone systems. 2,658,108, Nov. 3.

Hale, Arthur N., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Lubricating device for sewing machines. 2,657,659, Nov. 3.

Hall, Jesse E., Sr., assignor of ten per cent to Parker Industrial Products, Inc., Weatherford, Tex. Drill pipe protector. 2,657,956, Nov. 3.

Hall, John F., Jr.: *See*—
Klein, Arnold M., and Hall.

Hall, Reginald H., Sutton, England, assignor to The Distillers Company Limited, Edingurgh, Scotland. Frothing agents for the flotation of ores. 2,657,800, Nov. 3.

Hall, Samuel J.: *See*—
Barrett, Hillard E., Hall, and Schaffer.

Haller, John, Northville, Mich. Fluid-cushioned artificial leg. 2,657,393, Nov. 3.

Hallicrafters Co., The, assignee: *See*—
Samuelson, Robert E.

Ham, George E., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Polymeric N-methacrylyl morpholine. 2,658,056, Nov. 3.

Hamacher, Edward A., Irvington, and K. Lowitzsch, Yonkers, assignors to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y. Circular slide wire resistance element. 2,658,131, Nov. 3.

Hampton Machine Company, assignee: *See*—
Pendleton, Pyam L.

Hanby, George D.: *See*—
Van Haften, Lester W., and Hanby.

Hannahs, Wilson H., Westbury, N. Y., assignor to Sylvania Electric Products Inc. Flux for hard soldering of tungsten. 2,658,013, Nov. 3.

Hanson, Walter J.: *See*—
Rouan, Francis J., Hanson, and Russell.

Happe, Melvin J., assignor to The New Holland Machine Division of the Sperry Corporation, New Holland, Pa. Side delivery rake spring tooth. 2,657,521, Nov. 3.

Hardman, H. V., Company, Inc., assignee: *See*—
Hardman, Kenneth V., and Lang.

Hardman, Kenneth V., Upper Montclair, and A. J. Lang, Cedar Grove, N. J., assignors to H. V. Hardman Company, Inc. Punctureproof tube and sealing material therefor. 2,657,729, Nov. 3.

Harms, Edward R., Park Ridge, N. J., assignor to American Cyanamid Company, New York, N. Y. Crystallization of chlortetracycline. 2,658,077, Nov. 3.

Harned, Roger L., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of prodigiosin. 2,658,024, Nov. 3.

Harris, Guy H.: *See*—
Fischback, Bryant C., and Harris.

Harris, James S., Old Greenwich, Conn., assignor to Radio Corporation of America. Signal level indicator. 2,658,167, Nov. 3.

Harrison, Walter D., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Centrifugal device. 2,657,920, Nov. 3.

Harrison, William, Jr.: *See*—
Cushman, Cecil A., and Harrison.

Hart, Sara E., Rochester, N. Y. Holder for bed clothing. 2,657,441, Nov. 3.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Anderson, Charles H. J., and van Werd.
Brouwer, Pieter H. J.
Faust, Jacob.
Jonkers, Cornelius O.
Jonkers, Cornelius O., and Köhler.
Jonkers, Cornelius O., Köhler, Rinia, and Liebe.
Köhler, Jacob W. L., and Liebe.
Peters, Alfons.
Smits, Hubertus J.
Veenemans, Cornelis F., Visser, and Jansen.

Hartman, Richard A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,657,443, Nov. 3.

Haskin, Simon, North Carlton, Victoria, Australia. Traffic control indicator of the clock type. 2,658,187, Nov. 3.

Hatch, Arnold C.: *See*—
Cook, Robert R., and Hatch.

Hatcher, George W., Sr., Richmond, Va. Electrical connector. 2,658,185, Nov. 3.

Haynes, Stephen S., Towson, assignor to Bendix Aviation Corporation, Baltimore, Md. Portable recorder. 2,657,969, Nov. 3.

Haynie, Earl L., Berwyn, Ill. Throttle safety attachment. 2,657,757, Nov. 3.

Hazeltine Research, Inc., assignee: *See*—
De Cola, Rinaldo E.
Jackson, Patrick J.

Healy, Francis P.: *See*—
Allen, Edward A., and Healy.

Heinz, Alfred, Union, and J. Hoegermeyer, Irvington, N. J., said Heinz assignor to said Hoegermeyer. Dispenser. 2,657,836, Nov. 3.

Heinz, Bernard, Scranton, Pa. Luminous lock attachment. 2,658,151, Nov. 3.

Heinz, H. J., Company, assignee: *See*—
Smith, Richard A.

Heitmann, Albert, Hamburg-Niendorf, Germany, assignor to Will Hennings, Freeport, N. Y. Jar sealing. 2,657,847, Nov. 3.

Hell, Rudolf, Kiel-Dietrichsdorf, assignor to Siemens & Halske, Aktiengesellschaft, Berlin-Siemensstadt and Munich, Germany. Facsimile printing telegraph system and apparatus. 2,658,106, Nov. 3.

Hempel, August R.: *See*—
Klein, Louis E., and Hempel.

Hemphill Company, assignee: *See*—
St. Pierre, Eugene.

Hennings, Will, assignee: *See*—
Heitmann, Albert.

Henry Valve Company, Incorporated, assignee: *See*—
Palcer, Joseph A.

Herbst, Clarence A., Park Ridge, Ill., assignor to Resinoid Engineering Corporation. Molded commutator. 2,658,159, Nov. 3.

Hespenheide, Wilbur G.: *See*—
Faust, Charles L., and Hespenheide.

Heuser, Henry V., assignor to Henry Vogt Machine Company, Louisville, Ky. Automatic sediment purger for tube ice machines. 2,657,547, Nov. 3.

Hichman, Henry E.: *See*—
Turton, Arthur, and Hickman.

Hill, C. V., & Company, Inc., assignee: *See*—
Smith, Victor W.

Hill, David, Brooklyn, N. Y., assignor to G. Hill, North Hollywood, Calif. Key container. 2,657,569, Nov. 3.

Hill, Eugene F., and M. L. Welp, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y. Synergistic antioxidant composition. 2,657,982, Nov. 3.

Hill, Eugene F., and M. L. Osip, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y. Synergistic stabilizing compositions. 2,657,983, Nov. 3.

Hill, George, assignee: *See*—
Hill David.

Hill, George B., New Holland, and D. L. King, Leola, assignors to New Holland Machine Division of The Sperry Corporation, New Holland, Pa. Side delivery rake. 2,657,518, Nov. 3.

Hill, George B., assignor to The New Holland Machine Division of the Sperry Corporation, New Holland, Pa. Rotary wheel side delivery rake. 2,657,519, Nov. 3.

Hillberg, Bror, assignor to Superior Concrete Accessories, Inc., Chicago, Ill. Tie rod for concrete wall forms. 2,657,449, Nov. 3.

Hillberg, Bror, assignor to Superior Concrete Accessories, Inc., Chicago, Ill. Manufacturing tie rods for concrete wall forms. 2,657,455, Nov. 3.

Hillbom, Tor O., Rottneros, Sweden. Barking machine. 2,657,722, Nov. 3.

Hinchcliffe, Eric J.: *See*—
Butterworth, Edward, and Hinchcliffe.

Hinkamp, James B., Birmingham, Mich., assignor to Ethyl Corporation, New York, N. Y. Preparation of aluminum borohydride. 2,657,975, Nov. 3.

Hitchings, George H., Tuckahoe, P. B. Russell, Crestwood, and E. A. Falco, New Rochelle, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. 2,4-diamino-5-phenoxypyrimidines. 2,658,066, Nov. 3.

Hobson, H. M., Limited, assignee: *See*—
Greenland, Leonard S., and Edwards.

Hoegermeyer, Julius: *See*—
Heinz, Alfred, and Hoegermeyer.

Hoernel, Kenneth C., Racine, Wis. Mounting device for door closers. 2,657,892, Nov. 3.

Hoffmann-La Roche Inc., assignee: *See*—
Duschinsky, Robert.

Holcombe, Ralph L., Ada, Okla., assignor to Trans-Trading Corporation, Washington, D. C. Signaling system and device for aircraft operation. 2,657,476, Nov. 3.

Holland, Louis E., Lee's Summit, Mo. Mechanical body massager. 2,657,685, Nov. 3.

Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Narrow ware loom. 2,657,715, Nov. 3.

Holmes, Henry B., Lafayette, and R. A. Road, West Lafayette, assignors to Duncan Electric Manufacturing Company, Lafayette, Ind. Damping unit for meter disks. 2,658,181, Nov. 3.

Holmes, Henry H.: *See*—
Saunders, Alfred P., and Holmes.

Holmes, Lynn C., Fairport, N. Y., assignor to Stromberg-Carlson Company. Means for improving the performance of magnetic sound recording and reproducing heads. 2,658,113, Nov. 3.

Holstebroe, Kaye, Gildersleeve, and E. Ardell, and L. Wimmer, Middletown, Conn., assignors to Emhart Manufacturing Company. Adhesive applying device for case closing and sealing apparatus. 2,657,664, Nov. 3.

Hood, John W., Ridgewood, N. J. Sewage purification treatment. 2,658,034, Nov. 3.

Hook, Edwin O., New Canaan, and L. C. Beegle, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Hydrocarbon oil containing S-(sulfurized terpene hydrocarbon)dithiophosphoric acid triesters. 2,657,900, Nov. 3.

Hoover, Charles O., Houston, Tex., assignor to Air Reduction Company, Incorporated, New York, N. Y. Neutralization of acid constituents in petroleum. 2,658,027, Nov. 3.

Hopper, Harold, Denver, Colo. Spray nozzle. 2,657,953, Nov. 3.

Hosmer, Chester C.: *See*—
Launder, Ernie L., and Hosmer.

House, Bryan E., Ashtabula, Ohio, assignor to Bendix Aviation Corporation, South Bend, Ind. Brake assembly. 2,657,767, Nov. 3.

Howard, Frank S., Chicago, Ill., assignor to Birtman Electric Company. Vacuum cleaner, including a bottom closure member. 2,657,417, Nov. 3.

Howard, Frank S., Chicago, Ill., assignor to Birtman Electric Company. Vacuum cleaner brush mounting. 2,657,418, Nov. 3.

Howell, Everett C., Rialto, Calif. Internal pipe wrench. 2,657,605, Nov. 3.

Huber, Clyde L., Houston, Tex., and H. C. Skipper, Montrose, Calif., assignors, by mesne assignments, to Johnston Testers, Inc., Houston, Tex. Fluid shut-in valve. 2,657,895, Nov. 3.

Huffman, Robert L., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Double dog detent for two-motion switches. 2,657,590, Nov. 3.

Hughes, John A., Chicago, Ill. Baby walker. 2,657,735, Nov. 3.

Hukill, Henry D.: *See*—
Wilson, Albert E., and Hukill.

Hull, Robert R., Pasadena, Calif., assignor, by mesne assignments, to R. F., M. F., and D. T. Steward, Meriden, Conn. Liquid dispenser. 2,657,554, Nov. 3.

Hunyady, Frank W., Chicago, Ill. Full-floating brake. 2,657,768, Nov. 3.

Hupp, Edward E., assignor to Bendix Aviation Corporation, South Bend, Ind. Fluid control valve. 2,657,701, Nov. 3.

Hussnigg, August C., Zurich, Switzerland. Apparatus for the compression of the grooves of helically grooved tubes and hoses. 2,657,617, Nov. 3.

Huston, Charles R., Chicago, Ill., assignor to Cherry-Burrell Corporation, Wilmington, Del. Flow regulator. 2,657,712, Nov. 3.

Huthsing, Charles K., Los Angeles, Calif. Pump bearing seal for fire extinguishers. 2,657,950, Nov. 3.

Huyett, Daniel D., assignor to Atlas Powder Company, Wilmington, Del. Strand insertion. 2,657,454, Nov. 3.

I-T-E Circuit Breaker Company, assignee: *See*—
Caswell, Arthur S.

Illinois Tool Works, assignee: *See*—
Poupitch, Ougljesa J.
Sklenar, Lester J.

Independent Lock Company, assignee: *See*—
Erkkila, Andrew.

Independent Pneumatic Tool Co., assignee: *See*—
Gillerstrom, Hilmer A., and Canning.

Interior, United States of America as represented by the Secretary of the, assignee: *See*—
Tripp, John G., Brakel, and Gould.

Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Dehydrogenation of a gem alkyl arylcyclohexane. 2,658,089, Nov. 3.

Irvine, James, assignee: *See*—
Lewis, Harold P.

Isele, Louis E., Oakville, assignor to The Eyelet Specialty Company, Waterbury, Conn. Cosmetic container. 2,657,794, Nov. 3.

Isler, William, Cleveland, Ohio. Double-shelf unit. 2,657,811, Nov. 3.

Jackson, Anton, Queens Village, and B. A. Jackson, Long Island City, N. Y. Multiple electric connector. 2,658,182, Nov. 3.

Jackson, Boris A.: *See*—
Jackson, Anton and B. A.

Jackson, Byron, Co., assignee: *See*—
English, Charles L.
Miller, De Mont G., and Grant.

Jackson, Daisy B., Harvey, Ill. Lingerie accessory. 2,657,392, Nov. 3.

Jackson, Patrick J., Wembley, England, assignor to Hazeltine Research, Inc., Chicago, Ill. Servo system. 2,658,146, Nov. 3.

Jackson, Robert E., Wellesley, Mass. Tire chain device. 2,657,728, Nov. 3.

Jacobus, Jeré K., Port Huron, Mich. Tire air indicator apparatus. 2,658,119, Nov. 3.

Jankot, Joseph J., assignor, by mesne assignments, to Acragage Corporation, Milford, Conn. Bezel retaining means for instrument cases. 2,657,827, Nov. 3.

Jansen, Frans: *See*—
Veenemans, Cornelis F., Visser, and Jansen.

Jaques, Norman D.: *See*—
Cochran, John F., Middleton, and Jaques.

Jenkins, Reginald T., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Clapper and gong assembly for telephone ringers. 2,658,193, Nov. 3.

Jensen, Carl T., Minneapolis, Minn., assignor to Wheeler Lumber Bridge and Supply Co., Des Moines, Iowa. Wood culvert having laminated wall sections. 2,657,713, Nov. 3.

Jensen, Nels J.: *See*—
Swanback, John H., and Jensen.

Johansson, Karl L. B., assignor of part interest to G. G. Edstrom, Jonkoping, Sweden. Log classifying machine. 2,657,785, Nov. 3.

Johns-Manville Corporation, assignee: *See*—
Siering, Robert L., and Ford.

Johnson, Carl E., Westchester, assignor to National Aluminate Corporation, Chicago, Ill. Ion exchange resins from formaldehyde and the reaction product of a chloromethylated polynuclear hydrocarbon and a basic tertiary amine. 2,658,042, Nov. 3.

Johnson, Charles A., Berlin, N. H. Knife blade mounting for chippers. 2,657,723, Nov. 3.

Johnson, Edgar B., and J. F. Webster, Spondon, near Derby, England, assignors to British Celanese Limited. Wet-spinning cellulose triacetate. 2,657,973, Nov. 3.

Johnson, Frederick M., and L. J. Bulliet, Rockford, assignors to Odin Corporation, Chicago, Ill. Can sorting machine. 2,657,799, Nov. 3.

Johnson, Martin A., Baton Rouge, La., assignor to Kaiser Aluminum & Chemical Corporation. Alumina hydrate crystallization. 2,657,978, Nov. 3.

Johnson, Ralph E., Mountainside, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Loop-taker for sewing machines. 2,657,658, Nov. 3.

Johnson, Ray W., Turlock, Calif., assignor to Le Tourneau, Inc., Longview, Tex. Claw hammer with adjustable leverage fulcrum. 2,657,903, Nov. 3.

Johnston Testers, Inc., assignee: *See*—
Huber, Clyde L., and Skipper.
Johnston, Thomas M.

Johnston, Thomas M., La Canada, Calif., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex. Open hole packer of the sleeve type. 2,657,751, Nov. 3.

Jones, Cernyw F., Economy, assignor to Perfect Circle Corporation, Hagerstown, Ind. Slotting machine. 2,657,615, Nov. 3.

Jones, Edward N.: *See*—
Core, Clark D., and Jones.

Jones, Robert H., Kenilworth, N. J., assignor to Standard Oil Development Company. Mineral oil additive. 2,658,062, Nov. 3.

Jonkers, Cornelius O., J. W. L. Köhler, H. Rinia, and A. A. Liebe, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Hot gas engine enclosing two thermodynamic cycles. 2,657,528, Nov. 3.

Jonkers, Cornelius O., and J. W. L. Köhler, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Hot gas engine refrigerator. 2,657,552, Nov. 3.

Jonkers, Cornelius O., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Self-driving device for transporting heat from a lower to a higher temperature level. 2,657,553, Nov. 3.

Joslyn Mfg. and Supply Co., assignee: *See*—
Smalley, Burton M.

Joy Manufacturing Company, assignee: *See*—
Simmons, Leon E.

Kaelin, Henry F., Los Angeles, Calif. Power transmitting mechanism. 2,657,591, Nov. 3.

Kaiser Aluminum & Chemical Corporation, assignee: *See*—
Johnson, Martin A.
Montgomery, John E., and Cundiff.

Kalin, Walter, Morristown, and J. R. Power, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Audible signal for field telephone sets. 2,658,194, Nov. 3.

Kalinowski, Mathew L.: *See*—
MacLaren, Frederick H., and Kalinowski.

Kamm, Wunibald I. E., and W. F. Krautter, Dayton, and K. Staiger, Wright-Patterson Air Force Base, Ohio. Pulse jet motor fuel inlet valve construction. 2,657,708, Nov. 3.

Kanaval, Stephen W., Cincinnati, Ohio. Flexible seat mount. 2,657,737, Nov. 3.

Kantz, John J., Jr., and O. J. Lindell, assignors to The Great Lakes Tractor Company, Rock Creek, Ohio. Garden tractor. 2,657,621, Nov. 3.

Kasper, Cass S., Grosse Pointe, Mich. Apparatus for feeding a plurality of selectively oriented elongated articles. 2,657,404, Nov. 3.

Katz, Bernard, and D. M. Weisglass, Brooklyn, N. Y. Music box pocketbook. 2,657,607, Nov. 3.

Kay, James A.: *See*—
Rose, Alfred G., Kay, and Page.

Kay, Leah A., Amarillo, Tex. Baby garment. 2,657,689, Nov. 3.

Kearney & Trecker Corporation, assignee: *See*—
Armitage, Joseph B., and Flannery.

Kearse, George P., assignor to American Phenolic Corporation, Chicago, Ill. Indoor television antenna. 2,658,144, Nov. 3.

Keller Tool Company, assignee: *See*—
Shaff, Ernest H.

Kelvin & Hughes Limited, assignee: *See*—
Thomas, Ivor L., and Roberts.

Kendall, Thomas L., Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Vent cap. 2,658,100, Nov. 3.

Keogh, Daniel J., Saltdean, assignor to Price's Patent Candle Company Limited, London, England. Apparatus for making wax candles. 2,657,425, Nov. 3.

Kerner, Charles A., Los Angeles, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Road-rail wheel. 2,657,947, Nov. 3.

Kessler, Frank, Rochester, N. Y., assignor to Stromberg-Carlson Company. Automatic telephone system. 2,658,109, Nov. 3.

Ketcham, Gladys L., San Mateo, Calif. Infant's garment. 2,657,387, Nov. 3.

Keuffel & Esser Company, assignee: *See*—.
Beeber, Allan R. A.

Kiefer, William R., Rockford, Ill., assignor to Sundstrand Machine Tool Co. Two-stage fuel unit. 2,657,632, Nov. 3.

King, Donald L.: *See*—
Hill, George B., and King.

Kingsley, Errol F.: *See*—
Cerino, Michael J., and Kingsley.

Kingsley, Ralph J., Buffalo, N. Y. Clothesline reel. 2,657,875, Nov. 3.

Kircher, Paul J., Plainville, assignor to Landers, Frary & Clark, New Britain, Conn. Automatic coffee maker. 2,658,134, Nov. 3.

Kita, Donald A.: *See*—
Shull, Gilbert M., Kita, and Davisson.

Kiwad, Isadore, Westwood, N. J. Cap forming apparatus. 2,657,839, Nov. 3.

Kleiman, Morton, Chicago, Ill., assignor to Arvey Corporation. Chlorination of cyclopentadiene. 2,658,085, Nov. 3.

Klein, Arnold M., Brooklyn, N. Y., and J. F. Hall, Jr., Dayton, Ohio. Air ventilated suit. 2,657,396, Nov. 3.

Klein, Louis E., St. Louis, Mo., and A. R. Hempel, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Coating composition having accelerated drying time and accelerating same. 2,658,003, Nov. 3.

Klein, Victor G.: *See*—
Rotter, Lutwin C., and Klein.

Klemme, Willard A.: *See*—
Gerhard, August A., and Klemme.

Klostermann, Curt W., Chicago, and C. J. Adams, Park Ridge, assignors to American Phenolic Corporation, Chicago, Ill. Hermetically sealed socket with freely floating contacts. 2,658,183, Nov. 3.

Klun, William F.: *See*—
Armington, Raymond Q., and Klun.

Knight, Verne C., Michigan City, assignor to Betz Corporation, Hammond, Ind. Refrigerated display case. 2,657,545, Nov. 3.

Knott, Clyde L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sewing machine. 2,657,653, Nov. 3.

Knox, David M., New York, N. Y. Invertible and adjustable picture holder. 2,657,488, Nov. 3.

Knuth, Fred E., Utica, Nebr. Cultivator shield. 2,657,622, Nov. 3.

Koch, Winfield R., Marlton, N. J., assignor to Radio Corporation of America. Power supply for transformerless receivers. 2,658,140, Nov. 3.

Köhler, Jacob W. L.: *See*—
Jonkers, Cornelius O., and Köhler.
Jonkers, Cornelius O., Köhler, Rinia, and Liebe.

Köhler, Jacob W. L., and A. A. Liebe, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Cylindrical valve body comprising one or more apertures provided in the wall thereof. 2,657,899, Nov. 3.

Koller, Robert, Elmhurst, Ill. Cardio-pneumo-electrodermograph. 2,657,683, Nov. 3.

Kolling, Helmut: *See*—
Geiser, Nikolaus, and Kolling.

Kooistra, John A., assignor to Davis & Furber Machine Company, North Andover, Mass. Spindle brake. 2,657,523, Nov. 3.

Koonz, Carl H.: *See*—
Biddinger, Guy R., and Koonz.

Kosmin, Milton, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparing amine sulfonates and products obtained thereof. 2,658,072, Nov. 3.

Kovach, Louis: *See*—
Arnold, George B., and Kovach.

Kramer, Alfred: *See*—
Kramer, Edwin E., and A. Cramer.

Kramer, Edwin E., South Pasadena, and A. Kramer, San Gabriel, Calif. Pouring spout. 2,657,838, Nov. 3.

Krautter, Willy F.: *See*—
Kamm, Wunibald I. E., Krautter, and Staiger.

Krimmel, Carl P., Mundelein, assignor to G. D. Searle & Co., Chicago, Ill. N-dialkylaminoalkyl derivatives of α,β-diarylalkanoamides and their salts. 2,658,076, Nov. 3.

Kroeper, Hugo: *See*—
Reppe, Walter, Schweckendiek, and Kroeper.

Kruszona, Raymond F., assignor to General Motors Corporation, Detroit, Mich. Anchoring means for wavy wire spring ends. 2,657,738, Nov. 3.

Kuffner, Anthony J.: *See*—
Pickering, George H., and Kuffner.

Kuizenga, Marvin H.: *See*—
Haines, William J., and Kuizenga.

Kuplec, Harry P., Paramus, and E. G. Gravenhorst, Hasbrouck Heights, assignors to Air Associates, Inc., Teterboro, N. J. Nose wheel steering system for aircraft. 2,657,883, Nov. 3.

Kurland, Jerome J., and J. J. Kurland, Chicago, Ill. Time delay circuits. 2,658,141, Nov. 3.

Kurland, Joseph J.: *See*—
Kurland, Jerome J., and J. J.

Kurlandsky, Sam: *See*—
Coleman, Joseph J., and Kurlandsky.

Kuzell, Charles R., Douglas, Ariz., assignor to Phelps Dodge Corporation, New York, N. Y. Feeding furnaces. 2,657,990, Nov. 3.

La Burthe, Pierre H., assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Manufacture of glass. 2,658,093, Nov. 3.

Lambert, Roger E.: *See*—
Arbeit, Pierre, Dubois, and Lambert.

Landau, Ralph, Brooklyn, N. Y., and R. B. Egbert, Atlantic Highlands, N. J., assignors, by mesne assignments, to Chempatents, Inc., New York, N. Y. Chlorination of olefins in dilute mixtures. 2,658,087, Nov. 3.

Landau, Ralph, Brooklyn, N. Y., and R. B. Egbert, Atlantic Highlands, N. J., assignors to Chempatents, Inc., New York, N. Y. Chlorination of ethylene in dilute mixtures. 2,658,088, Nov. 3.

Landers, Frary & Clark, assignee: *See*—
Kircher, Paul J.

Landis Tool Company, assignee: *See*—
Price, Ralph E.

Landucci, Frank A., London, and E. I. Rusted, Wolvey Villa, near Hinckley, assignors to The Charnwood Engineering Company Limited, London, England. Apparatus for turning stockings and the like. 2,657,841, Nov. 3.

Lang, Arthur J.: *See*—
Hardman, Kenneth V., and Lang.

La Pota, John B.: *See*—
Chouinard, Alfred E., and La Pota.

Larsen, Russell C., Kimberly, Idaho. Tractor mounted loading shovel and scoop attachment. 2,657,481, Nov. 3.

La Télémécanique Electrique (Societe Anonyme), assignee: *See*—
Filliette, Raymond.

Latimer-Needham, Cecil H., North Bersted, Bognor Regis, assignor to Flight Refuelling Limited, London, England. Piston. 2,657,960, Nov. 3.

Latorraca, John: *See*—
Seaward, Charles W., and Latorraca.

Latour, André, assignor to Etablissements Merlin & Gerin, Grenoble, France. Valve operating apparatus. 2,657,710, Nov. 3.

Launder, Ernie L., Montebello, and C. C. Hosmer, Long Beach, Calif. Removable point locking mechanism for digging teeth. 2,657,482, Nov. 3.

Launder, James M., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Filter. 2,657,806, Nov. 3.

Launder, James M., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Oil filter. 2,657,807, Nov. 3.

Lawrence, Owen N., Dorridge, assignor to Joseph Lucas Limited, Birmingham, England. Means for controlling the supply of liquid fuel to combustion prime movers. 2,657,529, Nov. 3.

Lazarus, David: *See*—
Dorne, Arthur, and Lazarus.

Lectromatic Devices, Inc., assignee: *See*—
Von Stoeser, Walter.

Ledgett, Lowell A., Ridgewood, C. W. Deane, Summit, N. J., and J. J. Mahoney, New York, N. Y., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Cooling spray dried detergents. 2,657,797, Nov. 3.

Lee, Leighton, II, Rocky Hill, assignor to Niles-Bement-Pond Company, West Hartford, Conn. Control apparatus for turbojet engines. 2,657,530, Nov. 3.

Leippe, Richard M., Cedar Grove, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical watthour meter. 2,658,178, Nov. 3.

Leonard, Herbert C.: *See*—
Crandon, Frank P., and Leonard.

Leontis, Thomas E., Midland, and J. F. Pashak, Bay City, assignors to The Dow Chemical Company, Midland, Mich. Fiberizing magnesium. 2,657,796, Nov. 3.

Le Tourneau, Inc., assignee: *See*—
Johnson, Ray W.

Levine, Mac, Worcester, Mass. Joint connection. 2,657,439, Nov. 3.

Levy, René L., Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland. Hydraulic remote control system, including transmitter and receiver stations and means for automatically resynchronizing the receiver. 2,657,535, Nov. 3.

Levy, René L., Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland. Means for compensating for liquid volume variations in hydraulic remote control systems. 2,657,536, Nov. 3.

Lewis, Harold P., Newtown, assignor, by mesne assignments, to J. Irvine, Snug Valley, Wayne, Pa. Apparatus for packaging commodities. 2,657,510, Nov. 3.

Lewis, Jesse M., assignor to Williams Brothers Company, Tulsa, Okla. Pipe boom supporting apparatus. 2,657,067, Nov. 3.

Lewis, William E., Portland, Oreg. Apparatus for ruling negatives in the photolithographic art. 2,657,467, Nov. 3.

Liebe, August A.: *See*—
Jonkers, Cornelius O., Köhler, Rinia, and Liebe.

Liebe, August A.: *See*—
Köhler, Jacob W. L., and Liebe.

Liebman, Arno J., and J. W. Dorsey, assignors to Dravo Corporation, Pittsburgh, Pa. Bearing support for vertical agitating shafts. 2,657,912, Nov. 3.

Lincoln Engineering Company, assignee: *See*—
Rotter, Lutwin C., and Klein.

Lindell, Oswald J.: *See*—
Kantz, John J., Jr., and Lindell.

Lindenmeyer, Elmer H., Maywood, Ill. Toilet tissue holder. 2,657,872, Nov. 3.

Lindstrom, John, Montclair, and B. C. Case, Plainfield, N. J. Corn popping machine. 2,657,627, Nov. 3.

Linneman, Fred, Estelline, S. Dak. Boat trailer. 2,657,934, Nov. 3.

Lipe-Rollway Corporation, assignee: *See*—
Spase, Charles B.

Lipson, Milton, Jersey City, N. J. Sash cord connector. 2,657,422, Nov. 3.

Liston, Marcia B., assignee: *See*—
Bletcher, Ralph E., and Bentley.

Littlefield, Edgar E., Los Angeles, Calif. Fluid motor control. 2,657,673, Nov. 3.

Lloyd, Thomas W., Sutherlin, Oreg. Cover for telescopic sights. 2,657,465, Nov. 3.

Loberg, Henry T., West Allis, Wis. Portable conveyer. 2,657,786, Nov. 3.

Lochridge, Edwin H., assignor to Dental Perfection Company, Glendale, Calif. Impression material. 2,657,971, Nov. 3.

Lock, Douglas S., and F. D. Wilson, assignors to Dearborn Motors Corporation, Birmingham, Mich. Rotary stripper for side delivery rakes. 2,657,520, Nov. 3.

Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Party line selective signaling system having code and conference call. 2,658,110, Nov. 3.

Long, Armistead R., deceased, Fayetteville, and J. B. Long, Fayette, W. Va.; P. M. Long and C. E. Mahan, executors of said A. R. Long. Flight conveyer. 2,657,787, Nov. 3.

Long, John B.: *See*—
Long, Armistead R. and J. B.

Long, Pauline M., executrix: *See*—
Long, Armistead R. and J. B.

Longley, Raymond L., Jr.: *See*—
Emerson, William S., and Longley.

Looze, Louis F., Buffalo, N. Y. Concrete block handling tool. 2,657,571, Nov. 3.

Lovell, Clarence A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system based on orthogonal functions. 2,658,189, Nov. 3.

Lowitzsch, Kurt: *See*—
Hamacher, Edward A., and Lowitzsch.

Lucas, Joseph, Limited, assignee: *See*—
Lawrence, Owen N.

Ludowitz, George W., Los Angeles, Calif. Container bottom structure. 2,657,826, Nov. 3.

Lueneburg, William A., Oakwood, Wis. Nail driving device. 2,657,382, Nov. 3.

Lummus Company, The, assignee: *See*—
Schutte, August H.

Lung, Kenneth R., assignor to Flint & Walling Manufacturing Company, Incorporated, Kendallville, Ind. Pumping apparatus. 2,657,641, Nov. 3.

Lungstrom, Henry, Lindsborg, Kans. Uniform tension maintaining device. 2,657,866, Nov. 3.

Lutsey, Thomas H.: *See*—
Daanen, Sylvester J., and Lutsey.

Lyons, Albert E., Midland Park, N. J., assignor to Curtiss-Wright Corporation. Inspection gauge. 2,657,468, Nov. 3.

MacBride, Herbert L., Fort Washington, Pa. Weighing device. 2,657,921, Nov. 3.

Machinefabriek Reineveld N. V., assignee: *See*—
Zwaard, Henricus C. A.

Machovec, Fred J., Pasadena, Calif. Power propelled sweeper. 2,657,408, Nov. 3.

Macklanburg, Louis A., Oklahoma City, Okla. Screen door grille. 2,657,746, Nov. 3.

Macklin, Justin W., trustee, assignee: *See*—
Graves, Frederick G.

MacLaren, Frederick H., Munster, Ind., and M. L. Kalinowski, assignors to Standard Oil Company, Chicago, Ill. Bituminous materials and preparing the same. 2,658,026, Nov. 3.

Madden, Harold V.: *See*—
Gerken, John D., and Madden.

Madsen, Berthel F., assignor to Teletype Corporation, Chicago, Ill. Shift mechanism. 2,658,105, Nov. 3.

Mahan, Chas. E., executor: *See*—
Long, Armistead R. and J. B.

Mahoney, John J.: *See*—
Ledgett, Lowell A., Deane, and Mahoney.

Maiden, Norma, Ottawa, Ontario, Canada. Woman's garment. 2,657,690, Nov. 3.

Maier, Herbert N., Pottstown, Pa., assignor, by mesne assignments, to National Lead Company, New York, N. Y. Apparatus for impregnating and coating porous bodies. 2,657,668, Nov. 3.

Maker, Edwin J., and J. L. Gibson, assignors to Walgreen Co., Chicago, Ill. Photographic printing apparatus. 2,657,613, Nov. 3.

Mallinckrodt, George E., St. Louis, Mo. Rotary power machine. 2,657,676, Nov. 3.

Malthaner, William A., Summit, N. D. Newby, Leonia, and H. E. Vaughan, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse position dialing system with direct time measuring apparatus. 2,658,188, Nov. 3.

Mankin, Paul A., assignor to Bowser, Inc., Fort Wayne, Ind. Water separator. 2,657,808, Nov. 3.

Manning, Oscar, assignor to Calay Manufacturing Co., Los Angeles, Calif. Shower head. 2,657,955, Nov. 3.

Mansfield, Richard C.: *See*—
Schmidle, Claude J., and Mansfield.

Margand, Louis, assignor to L. Braun, Paris, France. Guiding device for sewing machines. 2,657,655, Nov. 3.

Margon Corporation, assignee: *See*—.
Samolewitz, Hans W.

Marhofer, Edwin G., Fredonia, Kans., assignor to Phillips Petroleum Company. Insecticidal compositions containing 1,2-dichloro-4(α,β-dichloroethyl)-cyclohexane and using the same. 2,658,017, Nov. 3.

Mariani, Frank N., New York, N. Y. Tank cap. 2,657,824, Nov. 3.

Martin, George A.: *See*—
Braithwaite, Charles H., Jr., Martin, and Sutton.

Martin, Phares, East Earl, Pa. Corn harvester and ensilage cutter. 2,657,513, Nov. 3.

Maschinenfabrik Augsburg-Nurnberg, A. G., assignee: *See*—
Von Lassberg, Dietrich.

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Prismatic directional and object locating system. 2,658,186, Nov. 3.

Mather, Harold C., Elmwood Park, assignor to Admiral Corporation, Chicago, Ill. Refrigerator tray. 2,657,544, Nov. 3.

Matson, Leroy A., Park Ridge, assignor, by mesne assignments, to S. M. Roth, Chicago, Ill. Votive light system. 2,658,168, Nov. 3.

Maybach, Karl, Friedrichshafen (Bodensee), assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Germany. Cooling system for the head portion of pistons of high-speed internal-combustion engines. 2,657,678, Nov. 3.

Maybach-Motorenbau G. m. b. H., assignee: *See*—
Maybach, Karl.

Mayland, Bertrand J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Gasifying coal. 2,657,501, Nov. 3.

McCallum, Robert A., Clarendon Hills, Ill., assignor, by mesne assignments, to AMI Incorporated. Credit unit. 2,658,171, Nov. 3.

McCandless, William, Toledo, Ohio. Electric speedometer. 2,657,919, Nov. 3.

McCarty, Thad B., Oakland, Calif. Basic structure for auxiliary seats or the like. 2,657,739, Nov. 3.

McConnell, Robert A., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Moving target indicating radar system. 2,658,195, Nov. 3.

McDonald, Lloyd L., Shamrock, Tex. Toy merry-go-round. 2,657,928, Nov. 3.

McFarlin, Charles J., Darien, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Method and apparatus for producing mixtures of coke and mineral materials. 2,658,039, Nov. 3.

McGinn, John H., Philadelphia, Pa. Fluid control apparatus. 2,657,707, Nov. 3.

McGowen, Frank, Twin Lakes, assignor to Continental Motors Corporation, Muskegon, Mich. Crankshaft rear bearing seal. 2,657,675, Nov. 3.

McKee, Tasman J.: *See*—
Brown, Laurie O., and McKee.

McLeod, Roderick C., Leicester, assignor to Power Jets (Research & Development) Limited, London, England. Construction of turbine rotors. 2,657,901, Nov. 3.

McMahon, Lewis O., Loveland, Colo. Pressure ripper. 2,657,914, Nov. 3.

McNally, Harold T., Detroit, assignor to Dearborn Motors Corporation, Birmingham, Mich. Bearing for disk harrows. 2,657,957, Nov. 3.

Meeks, Oscar L., Scranton, Pa., assignor, by mesne assignments, to The Sperry Corporation, New York, N. Y. Rotary tiller. 2,657,620, Nov. 3.

Mendonca, Lewis E., assignor to The Bastian-Blessing Company, Chicago, Ill. Apparatus for dispensing carbonated beverages. 2,657,952, Nov. 3.

Mengel Company, The, assignee : *See*—
Soehner, Howard C.

Mergenthaler Linotype Company, assignee ; *See*—
Seaward, Charles W., and Laterraca.

Merriam, John H. : *See*—
Coleman, Gordon A., Greene, Merriam, Miller, and Shannon.

Merrill, Donald G., West Hartford, Conn., assignor to Emhart Manufacturing Company. Woven wire conveyer belt. 2,657,788, Nov. 3.

Merrill, James A., assignor to Wingfoot Corporation, Akron, Ohio. Fuel cell. 2,657,884, Nov. 3.

Merriman, Horace B., Coventry, assignor to Courtaulds Limited, London, England. Continuous processing of filamentary tow. 2,657,433, Nov. 3.

Metallgesellschaft Aktiengesellschaft, assignee : *See*—
Untermann, Walter, Sondermann, and Milbers.

Metalwash Machinery Company, assignee : *See*—
Von Maur, Jacob E.

Metzger, Henry L., assignor to Fort Orange Paper Company, Castleton-on-Hudson, N. Y. Collapsible box. 2,657,851, Nov. 3.

Metzner, William : *See*—
Wade, Francis A., and Metzner.

Meuler, Alfred F., Milwaukee, Wis. Oscillating motor for highway crossing signals. 2,658,156, Nov. 3.

Michigan, State of, The, assignee : *See*—
Gottshall, Russel Y., Roberts, and Portwood.

Mid-Continent Radio-Television, Incorporated, assignee : *See*—
Sherman, John M., and Fisher.

Middleton, Jonathan I. : *See*—
Cochran, John F., Middleton, and Jacques.

Milbers, Arthur : *See*—
Untermann, Walter, Sondermann, and Milbers.

Miller, De Mont G., San Marino, and J. C. Grant, Los Angeles, assignors to Byron Jackson Co., Vernon, Calif. Adjustable line wiping device. 2,657,414, Nov. 3.

Miller, Louis, Akron, Ohio. Coupling for tubular members. 2,657,944, Nov. 3.

Miller, Stuart P. : *See*—
Coleman, Gordon A., Greene, Merriam, Miller, and Shannon.

Milsom, Frederick R., Boreham Wood, assignor to S. Smith & Sons (England) Limited, London, and Furzehill Laboratories Limited, Boreham Wood, England. Liquid level indicating device. 2,657,579, Nov. 3.

Milton, Clare L., Jr., Akron, Ohio, and C. A. Nielson, Takoma Park, Md., assignors to the United States of America as represented by the Secretary of the Army. Cosmetic glove. 2,657,394, Nov. 3.

Minneapolis-Honeywell Regulator Company, assignee : *See*—
Reese, Harry, Jr.

Minnesota Mining & Manufacturing Company, assignee : *See*—
Calabrese, Carl J.
Cross, Bert S., and Netherly.

Miollis, Raymond, Maywood, Ill., assignor to The Borden Company. Cheese making method. 2,567,994, Nov. 3.

Missouri Automatic Control Corporation, assignee : *See*—
Mueller, Siegfried.

Monsanto Chemical Company, assignee : *See*—
Cook, Robert R., and Hatch.
Dazzi, Joachim.
Emerson, William S., and Longley.
Fincke, John K.
Gluesenkamp, Earl W.
Ham, George E.
Klein, Louis E., and Hempel.
Kosmin, Milton.
Park, Harold F.
Patrick, Tracy M., Jr.
Rudick, Lawrence.
Schlesinger, Arthur H., and Mowry.
Terpstra, Marrine A.

Montgomery, John E., and W. H. Cundiff, Baton Rouge, La., assignors to Kaiser Aluminum & Chemical Corporation. Method and apparatus for treating solids. 2,657,473, Nov. 3.

Moody, Charles W., Pittsfield, Mass., assignor to General Electric Company. Making joints in wound cores. 2,657,456, Nov. 3.

Moolten, Sylvan E., Highland Park, N. J., assignor to American Cholesterol Products, Inc. Extracting biologically active material. 2,658,019, Nov. 3.

Moore, Walter G., West Palm Beach, Fla. Wall ventilator. 2,657,570, Nov. 3.

More, Philip J. : *See*—
Sparklin, Charles H., and More.

Morgenstern, Elliott : *See*—
Morgenstern, Joseph and E.

Morgenstern, Joseph, University Heights, and E. Morgenstern, assignors to Electroline Manufacturing Company, Cleveland, Ohio. Holder for and in combination with portable electric spotlights and cords. 2,658,136, Nov. 3.

Morrell, Clyde E., Southbridge, assignor to Buxton, Incorporated, Springfield, Mass. Key hanger support for key cases. 2,657,568, Nov. 3.

Morrison, Charles S., assignor to Deere & Company, Moline, Ill. Towed sprayer. 2,657,949, Nov. 3.

Morrison, James J., Worcester, Mass., assignor to United States Steel Corporation. Making electrical cable. 2,658,014, Nov. 3.

Moseley, James T. W. : *See*—
Carlson, Harold A., and Moseley.

Moser, Paul, Clifton, N. J. Ventilated awning. 2,657,437, Nov. 3.

Mowry, David T. : *See*—
Schlesinger, Arthur H., and Mowry.

Moyer, Frederick D., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Drain. 2,657,821, Nov. 3.

Mueller, Siegfried, assignor to Missouri Automatic Control Corporation, St. Louis, Mo. Device for inserting pliable grommets. 2,657,818, Nov. 3.

Muller, Frank G., La Porte, Tex. Butterfly valve assembly with continuous annular sealing means. 2,657,896, Nov. 3.

Muller, Hendrik L., Eindhoven, Netherlands, and W. K. Bouwman, Harmon-on-Hudson, assignors to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y. Hot-gas engine fuel control. 2,657,527, Nov. 3.

Munster, Allen C. : *See*—
Sunstein, David E., and Munster.

Murdock, Orrice L., Kensington, Md. Cleaning device. 2,657,413, Nov. 3.

Murphy, Donald F., assignor to Bendix Aviation Corporation, Baltimore, Md. Pressure responsive switch. 2,658,120, Nov. 3.

Myers, Edward C., Wilmette, Ill. Toric fluid displacement chamber and packing therefor. 2,657,538, Nov. 3.

Myers, Robert C., Cambridge City, assignor to Perfect Circle Corporation, Hagerstown, Ind. Centrifugal casting apparatus. 2,657,440, Nov. 3.

Naab, August J., Passaic, N. J. Apparatus for removing barbs from the quills of feathers. 2,657,432, Nov. 3.

Nallinger, Friedrich K. H., Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Operating mechanism for motor vehicles. 2,657,778, Nov. 3.

National Aluminate Corporation, assignee : *See*—
Johnson, Carl E.

National Brass Company, assignee : *See*—
Young, Herbert.

National Cash Register Company, The, assignee : *See*—
Winkler, Max.

National Cylinder Gas Company, assignee : *See*—
Chouinard, Alfred F., and La Pota.

National Lead Company, assignee : *See*—
Bode, Harold E.
Maier, Herbert N.
Orsino, Joseph A.
Rowe, Lancelot W., and Smith.
Sullivan, William F., and Panik.

National Rubber Machinery Company, assignee : *See*—
Drew, John.

National Tank Company, assignee : *See*—
Glasgow, Clarence O.

Naylor, Joseph F. : *See*—
Derbyshire, Alfred, and Naylor.

Neighbour, Leonard B., assignor to Deere & Company, Moline, Ill. Manure spreader drive mechanism. 2,657,583, Nov. 3.

Nelson, Karl J. : *See*—
Barr, Frank T., and Nelson.

Netherly, George P. : *See*—
Cross, Bert S., and Netherly.

Neubauer, John R., Collingswood, N. J., assignor to Radio Corporation of America. Switching control system. 2,658,172, Nov. 3.

Newby, Neal D. : *See*—
Malthaner, William A., Newby, and Vaughan.

New Holland Machine Division of The Sperry Corporation, assignee : *See*—
Hill, George B., and King.
Happe, Melvin J.
Hill, George B.

Newsom, James B. : *See*—
Haines, William T., and Newsom.

Newton, Alwin B., Dayton, Ohio, assignor to Chrysler Corporation, Highland Park, Mich. Apparatus for vaporizing liquid fuel. 2,657,744, Nov. 3.

Nicholls, Malcolm B., Cincinnati, Ohio, assignor to Troy Engine and Machine Company, Troy, Pa. Apparatus for mixing finely divided solid particles and liquid. 2,657,911, Nov. 3.

Nichols, Charles A., and A. E. Riggs, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Breaker arm. 2,658,129, Nov. 3.

Nielson, Carl A. : *See*—
Milton, Clare L., Jr., and Nielson.

Niles-Bement-Pond Company, assignee : *See*—
Lee, Leighton, II.

Nilsson, Ernst L. : *See*—
Wetterholm, Gustav A., and Nilsson.

Nishimitsu, Hiroshi, Suma-Ku, Kobe, M. Nishikawa, Nishinomiya, and H. Hagihara, Toyonaka, assignors to Takeda Yakuhin Kogyo Kabushikigaisha, Doshomachi, Higashi-Ku, Osaka-Shi. Halogenating the π-position of camphor and its α-haloderivatives. 2,658,079, Nov. 3.

Nishiwawa, Masamoto : *See*—
Nishimitsu, Hiroshi, Nishikawa, and Hagihara.

Nitroglycerin Aktiebolaget, assignee : *See*—
Wetterholm, Gustav A., and Nilsson.

Nonken, Gordon C., Pittsfield, Mass., assignor to General Electric Company. Combined electrode and skimmer for electric glass melting furnaces. 2,658,094, Nov. 3.

Norden, Jesse, Kew Gardens, N. Y. Closure top. 2,657,848, Nov. 3.

Nordstrom, Nils, Jr., Binghamton, N. Y. Instrument useful in anesthetizing by intratracheal insufflation. 2,657,691, Nov. 3.

North, Harold D., Jr., Shaker Heights, Ohio. Spraying device. 2,657,951, Nov. 3.

Northrop Aircraft, Inc., assignee : *See*—
Kerner, Charles A.
St. John, Dale E.

Northwest Leather Goods Co., assignee : *See*—
Silverman, Sol B.

Oakley, Wilbur J., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Master cylinder with compensating valve. 2,657,537, Nov. 3.

O'Brien, Martha C., Warrensburg, Mo. Reversible front garment. 2,657,388, Nov. 3.

Odin Corporation, assignee : *See*—
Johnson, Frederick M., and Bulliet.

O'Leary, Louis : *See*—
Paul, Philip F., and O'Leary.

Olson, Leonard E. : *See*—
Teter, John W., and Olson.

Olson, Raymond J. : *See*—
Reed, Raymond E., Brant, and Olson.

Onondaga Pottery Company, assignee : *See*—
Cowan, R. Guy.

Orno-Ornfeldt, Eduard, Bonn-Dransdorf, assignor to Chemieprodukte G. m. b. H., Leverkusen-Rheindorf, Germany. Manufacture of lubricating greases. 2,658,037, Nov. 3.

Orsino, Joseph A., Mountain Lakes, N. J., assignor to National Lead Company, New York, N. Y. Manufacture of positive plates for lead storage batteries. 2,658,097, Nov. 3.

Osip, Margaret L. : *See*—
Hill, Eugene F., and Osip.

Oster, Charles J. : *See*—
Schanzlin, Ernest H., and Oster

Overman, Harold S. : *See*—
Overman, Ilma M. and H. S.

Overman, Ilma M. and H. S., Dahlgren, Va. Sewing machine. 2,657,654, Nov. 3.

Owens, Freeman H., New York, N. Y. Securing and driving means for rotatable magazine-contained spool. 2,657,869, Nov. 3.

Packard Motor Car Company, assignee : *See*—
Williams, Robert M.

Packer, Donald H., Toledo, Ohio. Solenoid operated closure remover for bottles with automatic closure ejectors. 2,657,599, Nov. 3.

Page, James : *See*—
Rose, Alfred G., Kay, and Page.

Pagon, Garrett D., Ambler, assignor to The Budd Company, Philadelphia, Pa. Sleeping berth support. 2,657,400, Nov. 3.

Palcer, Joseph A., assignor to Henry Valve Company, Incorporated, Chicago, Ill. Y-type strainer. 2,657,805, Nov. 3.

Panik, Irene M. : *See*—
Sullivan, William F., and Panik.

Park, Harold F., East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Mass polymerization with mixture of 4,4-dihydroxy benzoyl peroxide and adipoyl peroxide. 2,658,057, Nov. 3.

Parker, George E., assignor to Woodward Governor Company, Rockford, Ill. Duplex speed regulator. 2,657,918, Nov. 3.

Parker Industrial Products, Inc., assignee : *See*—
Hall, Jesse E., Sr.

Parker, Sydney M., assignor to Automotive Products Company Limited, Leamington Spa, England. Throttle control device for internal-combustion engines. 2,657,776, Nov. 3.

Parsons Corportion, assignee : *See*—
Brogren, Axel V.

Pashak, John F. : *See*—
Leontis, Thomas E., and Pashak.

Patent and Licensing Corporation, The, assignee : *See*—
Paul, Philip F., and O'Leary.

Patrick, Tracy M., Jr., Dayton, Ohio, assigner to Monsanto Chemical Company, St. Louis, Mo. Softened copolymer of butadiene and styrene. 2,658,046, Nov. 3.

Patrina, Mildred P. : *See*—
Pavlot, Mildred.

Pattison, Grange K., Chicago, Ill. Multiple timecard. 2,657,942, Nov. 3.

Paul, Philip F., North Hollywood, and L. O'Leary, Los Angeles, Calif., assignors to The Patent and Licensing Corporation, New York, N. Y. Shipping container. 2,657,849, Nov. 3.

Paul, Walter J., Vista, Calif. Heel construction for flimsy foot coverings. 2,657,478, Nov. 3.

Pavlot, Mildred, Pittsburgh, Pa., now by change of name M. P. Patrina. Hair curler. 2,657,693, Nov. 3.

Pease, Edgar B., Phoenix, Ariz. Fish display. 2,657,927, Nov. 3.

Pellanda, William L., Jr., Spokane, Wash. Emplacement form. 2,657,447, Nov. 3.

Pendleton, Pyam L., Edgewood, assignor, by mesne assignments, to Hampton Machine Company, Providence, R. I. Apparatus for fluid treatment of strand material. 2,657,565, Nov. 3.

Perfect Circle Corporation, assignee : *See*—
Jones, Cernyw F.
Myers, Robert C.
Teetor, Ralph R.

Perkins, Lyman G., assignee : *See*—
Gilreath, Lafayette E.

Perrot, Paul H., Paris, France, assignor to Bendix Aviation Corporation, New York, N. Y. Brake. 2,657,774, Nov. 3.

Perry, John A., Phoenix, Ariz. Airfoil support structure. 2,657,882, Nov. 3.

Pessel, Leopold, Whitemarsh, Pa., assignor to Radio Corporation of America. Joining copper members. 2,657,458, Nov. 3.

Pestarini, Joseph M., Staten Island, N. Y. Speed responsive electrical device. 2,658,177, Nov. 3.

Peterman, Russel S., Des Plaines, Ill., assignor to The Rauland Corporation. Image-reproducing device. 2,658,160, Nov. 3.

Peters, Alfons, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device for reducing excess lubricant on relatively reciprocating bodies. 2,657,762, Nov. 3.

Peters, Bernard : *See*—
Backus, John G., and Peters.

Peters, Edwin F., and B. L. Evering, assignors to Standard Oil Company, Chicago, Ill. Ethylene polymerization in the vapor phase. 2,658,059, Nov. 3.

Peters, Faith P., assignee : *See*—
Berg, Elaine.

Peters, Leo, Evanston, Ill. Soft plastic food package. 2,657,998, Nov. 3.

Peterson, Alfred, Lyford, Tex. Tire chain. 2,657,727, Nov. 3.

Pettus, James L., Encino, Calif., assignor to Radio Corporation of America. Motor drive system for motion-picture equipment. 2,657,870, Nov. 3.

Pettus, James L., Encino, Calif., assignor to Radio Corporation of America. Film reel drive mechanism. 2,657,871, Nov. 3.

Peyches, Ivan, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Apparatus for the manufacture of multicellular glass. 2,658,096, Nov. 3.

Pfizer, Chas., & Co., Inc., assignee : *See*—
Blase, Edwin W.
Shull, Gilbert M., Kita, and Davisson.

Phelps Dodge Corporation, assignee : *See*—
Kuzell, Charles R.

Philco Corporation, assignee : *See*—
Sunstein, David E., and Munster.

Philips Laboratories, Inc., assignee : *See*—
Hamacher, Edward A., and Lowitzsch.
Muller, Hendrik L., and Bouwman.

Phillips, Henry W. : *See*—
Auchincloss, Samuel S., and Phillips.

Phillips, John M., Norfolk, Va. Computer shutter cam plate retaining bracket. 2,657,853, Nov. 3.

Phillips Petroleum Company, assignee : *See*—
Carpenter, Paul G.
Cines, Martin R.
De Boisblanc, Deslonde R.
Marhofer, Edwin G.
Mayland, Bertrand J.
Ray, Gardner C.

Pickard, Edwin C. : *See*—
Daniels, Howard G., and Pickard.

Pickering, George H., and A. J. Kuffner, Detroit, Mich. Deburring and chamfering tool. 2,657,597, Nov. 3.

Pierce, Bernell E., Pleasanton, Calif. Fertilizer distributor. 2,657,831, Nov. 3.

Pierce, Harold C., Pomona, Calif. Center filling and bracing of carloads. 2,657,644, Nov. 3.

Pierce, Lowell J., Saugus, Mass., assignor to General Electric Company. Wall cooling arrangement for combustion devices. 2,657,531, Nov. 3.

Pike, Harold S., Fanwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cable guiding apparatus. 2,657,879, Nov. 3.

Pines, Herman : *See*—
Ipatieff, Vladimir N., and Pines.

Piper, Donald M : *See*—
Browne, Paul W., and Piper.

Pitney-Bowes, Inc., assignee : *See*—
Rouan, Francis J., Hanson, and Russell.

Pneumatic Scale Corporation, Limited, assignee : *See*—
Everett, Arthur C.

Pockman, William W. : *See*—
Walsh, Robert H., and Pockman.

Poitras, Edward J., Holliston, Mass. Liquid-vapor phase differential fire and overheat detector and control and system. 2,658,190, Nov. 3.

Polson, Robert G., Stockton, Calif. Adjustable hinge. 2,657,421, Nov. 3.

Portwood, Lucile M. : *See*—
Gottshall, Russel Y., Roberts, and Portwood.

Poupitch, Ouglјesa J., assignor to Illinois Tool Works, Chicago, Ill. Screw shank slotter. 2,657,402, Nov. 3.
Powell, Robert J., Muskegon, assignor to Continental Motors Corporation, Detroit, Mich. Push rod housing structure. 2,657,679, Nov. 3.
Power, James R.: *See*—
Kalin, Walter, and Power.
Power Jets (Research & Development) Limited, assignee: *See*—
McLeod, Roderick C.
Reid, John and E.
Price, Ralph E., Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa. Feed control mechanism. 2,657,505, Nov. 3.
Price, Rudolph N., Manhasset, N. Y. Apparatus for and method of handling and washing ampoules and vials in packed-lots. 2,658,011, Nov. 3.
Price, Theodore R., Old Greenwich, and R. L. Brown, Noroton Heights, assignors to Electrolux Corporation, Old Greenwich, Conn. Tape dispenser. 2,657,926, Nov. 3.
Price's Patent Candle Company Limited, assignee: *See*—
Keogh, Daniel J.
Prime Manufacturing Company, assignee: *See*—
Ridderstrom, Andrew R.
Probst, Karl K., Columbus, Ohio. Brake. 2,657,769, Nov. 3.
Proell, Wayne A., assignor to Standard Oil Company, Chicago, Ill. Disulfoxides. 2,658,038, Nov. 3.
Puckert, Esca W., Worthing, England. Pneumatic suction device. 2,657,893, Nov. 3.
"Pump-It" Incorporated, assignee: *See*—
Bacheller, "D" Flavius.
Punch Engineering Pty. Limited, assignee: *See*—
Skillman, Thomas S.
Pye Limited, assignee: *See*—
Bentley, Leslie F.
Quick-Way Truck Shovel Co., assignee: *See*—
Smith, Luke E.
Quigley, Arthur H., Baltimore, Md. Mess kit. 2,657,820, Nov. 3.
Quilling, Leslie J., Ringwood, Okla. Watermelon crusher and seed separator. 2,657,801, Nov. 3.
Radio Corporation of America, assignee: *See*—
Blaney, Dorothy L.
Coxe, Whitwell W., Jr.
Fiet, Owen O., and Scudder.
Goldsmith, Alfred N.
Harris, James S.
Koch, Winfield R.
Neubauer, John R.
Pessel, Leopold.
Pettus, James L.
Wilcox, Roy C.
Ransburg, Edwin M., assignor to Ransburg Electro-Coating Corp., Indianapolis, Ind. Electrostatic coating method and apparatus. 2,658,009, Nov. 3.
Ransburg Electro-Coating Corp., assignee: *See*—
Ransburg, Edwin M.
Rapisarda, Edward D., Agawam, Mass., assignor to G. Cella, Inc., New York, N. Y. Confection machinery. 2,657,647, Nov. 3.
Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield wiper. 2,657,415, Nov. 3.
Rauch, Albert C., Blue Island, Ill. Preparing soup. 2,657,999, Nov. 3.
Rauland Corporation, The, assignee: *See*—
De Ano, John F.
Peterman, Russel S.
Schmalz, Henry H.
Ray, Gardner C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Method of and apparatus for segregating fluids transported by a pipeline. 2,657,700, Nov. 3.
Raymor, Willard, assignor to Thompson Products, Inc., Cleveland, Ohio. Supplementary feed device for internal-combustion engines. 2,657,913, Nov. 3.
Raytheon Manufacturing Company, assignee: *See*—
Abate, Anthony.
Reed, Raymond E., and J. H. Brant, Arlington Heights, and R. J. Olson, Skokie, Ill., assignors to The Gillette Company, Boston, Mass. Hair curling device. 2,657,694, Nov. 3.
Reed, Robert R., Tulsa, Okla. Material separator. 2,657,802, Nov. 3.
Reese, Harry, Jr., Oak Ridge, Tenn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Vibrating condenser converter. 2,658,173, Nov. 3.
Reid, John, Elstead, and A. G. Earl, Camberley, assignors to Power Jets (Research and Development) Limited, London, England. Liquid fuel atomizer located upstream of a flame stabilizing baffle. 2,657,532, Nov. 3.
Reiners, Walter, assignee: *See*—
Fürst, Stefan.
Reppe, Walter, and W. Schweckendiek, Ludwigshafen (Rhine), and H. Kroeper, Heidelberg, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany. Preparing carboxylic acids and their anhydrides. 2,658,075, Nov. 3.
Resinoid Engineering Corporation, assignee: *See*—
Herbst, Clarence A.
Reus, John J., Smithtown, N. Y. Toy bomber and bomb carrier and release mechanism. 2,657,930, Nov. 3.
Richards, Dwight, assignor to The Buda Company, Harvey, Ill. Earth drill. 2,657,906, Nov. 3.
Richmond Manufacturing Company, assignee: *See*—
Conkling, William C.
Richterkessing, Frank H., Jefferson County, near Louisville, assignor to W. M. Cissell Manufacturing Company, Louisville, Ky. Vacuum spotting board. 2,657,566, Nov. 3.
Ridderstrom, Andrew R., Nahant, assignor to Prime Manufacturing Company, Lynn, Mass. Rib applying machine. 2,657,405, Nov. 3.
Rieke, Foster F.: *See*—
Evans, John E., Fletcher, and Rieke.
Evans, John E., and Rieke.
Riggs, Arnold E.: *See*—
Nichols, Charles A., and Riggs.
Rinia, Herre: *See*—
Jonkers, Cornelius O., Köhler, Rinia, and Liebe.
Road, Richard A.: *See*—
Holmes, Henry B., and Road.
Roberg, Wilfred P., Springfield, Mass. Reciprocating piston pressure priming device. 2,657,639, Nov. 3.
Roberts, Gwilym E.: *See*—
Thomas, Ivor L., and Roberts.
Roberts, John M.: *See*—
Gottshall, Russel Y., Roberts, and Portwood.
Roberts, Tom R., Homestead, Fla. Safety snap hook 2,657,446, Nov. 3.
Robertshaw-Fulton Controls Company, assignee: *See*—
Fox, Charles E. K.
Robertson, Charlotte R. B., assignee: *See*—
Bletcher, Ralph E., and Bentley.
Robertson, Clarence E., Jr.: *See*—
Bernstein, Jacob M., and Robertson.
Robertson, Leonard F., Jr., Silver Spring, Md. Magazine floor plate release mechanism. 2,657,489, Nov. 3.
Robinson, Albert S., assignor to Specialloid Limited, Leeds, England. Piston ring. 2,657,962, Nov. 3.
Robinson, Joseph, New York, N. Y. Switch point protector. 2,657,886, Nov. 3.
Robson, Hector H., Scarsdale, N. Y., assignor to United Fruit Company, Boston, Mass. Insulating hatchcover with inflatable gasket. 2,657,661, Nov. 3.
Rochford, Martin P., West Springfield, Mass. Convertible bed. 2,657,399, Nov. 3.
Roger, Alex. A., Beverly Hills, Calif., assignor to Spengler Loomis Manufacturing Company, Rockford, Ill. Pencil box with built-in sharpener. 2,657,669, Nov. 3.
Rohm & Haas Company, assignee: *See*—
Schmidle, Claude J., and Mansfield.
Urban, Richard S.
Rohr Aircraft Corporation, assignee: *See*—
Greathouse, Ira L.
Rollins, Hazelle H., Kansas City, Mo. Marionette construction. 2,657,499, Nov. 3.
Ronson Art Metal Works, Inc., assignee: *See*—
Burchett, Ray L.
Rose, Alfred G., J. A. Kay, and J. Page, assignors to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Rotating trap portioning device for granular materials. 2,657,832, Nov. 3.
Rose Brothers (Gainsborough) Limited, assignee: *See*—
Rose, Alfred G., Kay, and Page.
Rossman, Edwin F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Shock absorber. 2,657,770, Nov. 3.
Roth, Sydney M., assignee: *See*—
Matson, Leroy A.
Rotter, Lutwin C., and V. G. Klein, assignors to Lincoln Engineering Company, St. Louis, Mo. Lubricator pump. 2,657,763, Nov. 3.
Rouan, Francis J., Darien, Conn., W. J. Hanson, Port Chester, N. Y., and A. G. Russell, assignors to Pitney-Bowes, Inc., Stamford, Conn. Differential actuator. 2,657,593, Nov. 3.
Rowe, Lancelot W., Metuchen, and R. P. Smith, Westfield, N. J., assignors to National Lead Company, New York, N. Y. Producing iron oxide and titanium tetrachloride from titaniferous iron ores. 2,657,976, Nov. 3.
Rude, John F., and A. V. Burch, assignors to Burch Plow Works, Inc., Evansville, Ind. Flexible disk harrow. 2,657,511, Nov. 3.
Rudick, Lawrence, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Stabilized stains comprising dioxane. 2,657,970, Nov. 3.
Rueb, Theodore O., assignor to The Sherman-Klove Co., Chicago, Ill. Ratchet wrench. 2,657,604, Nov. 3.
Ruh, Robert P., and R. A. Davis, assignors to The Dow Chemical Company, Midland, Mich. Bromination of polyhalomethanes. 2,658,086, Nov. 3.
Ruhrchemie Aktiengesellschaft, assignee: *See*—
Geiser, Nikolaus, and Kolling.
Rupp, Earl V.: *See*—
Steczynski, Myron E., Biederstadt, and Rupp.
Rusoff, Irving I., East Orange, and J. L. Common, Rutherford, N. J., assignors to General Foods Corporation, New York, N. Y. Stabilized citrus oil and producing the same. 2,657,997, Nov. 3.
Russell, Alva G.: *See*—
Rouan, Francis J., Hanson, and Russell.
Russell, Herbert H., assignor to The Greist Manufacturing Company, New Haven, Conn. Faggoting attachment for sewing machines. 2,657,656, Nov. 3.

Russell, Peter B.: *See*—
Hitchings, George H., Russell, and Falco.
Rust, John D., Pine Bluff, Ark. Cotton picker with fluffer. 2,657,514, Nov. 3.
Rust, John D., Pine Bluff, Ark. Rotary cotton fluffer. 2,657,515, Nov. 3.
Rust, John D., Pine Bluff, Ark. Cotton picking spindle roughening means. 2,657,516, Nov. 3.
Rusted, Edwin I.: *See*—
Landucci, Frank A., and Rusted.
Ruthberg, Stanley: *See*—
Gallagher, Charles J., and Ruthberg.
Ruthner, Othmar, Vienna, Austria. Separation of metals in powder form from their salt solutions. 2,657,989, Nov. 3.
Saco-Lowell Shops, assignee: *See*—
Tarbox, Philip B., and Anderson.
Saeurefabrik Schweizerhall, assignee: *See*—
Saladin, Otto, Schornstein, and Frey.
St. John, Dale E., Long Beach, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. High-speed commutator. 2,658,142, Nov. 3.
St. Pierre, Eugene, Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Transferring loops from dial needles to cylinder needles. 2,657,560, Nov. 3.
Saladin, Otto, Schweizerhalle, W. Schornstein, Arlesheim, and W. Frey, Basel, assignors to Saeurefabrik Schweizerhall, Schweizerhalle Baselland, Switzerland. Recovering metallic oxides. 2,657,979, Nov. 3.
Samolewitz, Hans W., assignor to Margon Corporation, Bayonne, N. J. Transparent doll eye. 2,657,500, Nov. 3.
Sampson, Frederick W., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Molded decorative steering wheel. 2,657,589, Nov. 3.
Samuelson, Robert E., Chicago, Ill., assignor to The Hallicrafters Co. Radio receiver. 2,658,138, Nov. 3.
Sanford, Katherine K.: *See*—
Earle, Wilton R., and Sanford.
Sargent, Albert M., assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich. Apparatus for separating oil from coolant liquids. 2,658,040, Nov. 3
Sativa Corporation, assignee: *See*—
Burkardt, Anton F.
Saunders, Alfred P., and H. H. Holmes, assignors to Wildt and Company Limited, Leicester, England. Knitted fabric and making the same. 2,657,561, Nov. 3.
Savage, Conwell, New York, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Elevator control system. 2,657,765, Nov. 3.
Sawyer, Hilon W., Nutley, and L. Gelly, Newark, assignors to Thomson Machine Company, Belleville, N. J. Dough working and shaping machine. 2,657,648, Nov. 3.
Scarlett, George R., assignee: *See*—
Eichmann, Theophil.
Schaffer, William C.: *See*—
Barrett, Hillard E., Hall, and Schaffer.
Schanzlin, Ernest H., Cleveland, Ohio, and C. J. Oster, Detroit, Mich., assignors to Borg-Warner Corporation, Chicago, Ill. Hydraulic control system. 2,657,533, Nov. 3.
Schettler, William R., Lawrence Park, Pa., assignor to General Electric Company. Hand brake arrangement. 2,657,771, Nov. 3.
Schildknecht, Calvin E., Montclair, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Polyvinyl pyrrolidone gels and producing the same. 2,658,045, Nov. 3.
Schilling, Clarence J., Allentown, Pa., assignor to Air Products Incorporated. Method and apparatus for pumping volatile liquids. 2,657,541, Nov. 3.
Schlesinger, Arthur H., and D. T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. 3-(cyanomethyl) thianaphthene-1, 1-dioxide. 2,658,068, Nov. 3.
Schmalz, Henry H., Des Plaines, assignor to The Rauland Corporation, Chicago, Ill. Combination holder and vacuum-tight seal for envelopes. 2,657,846, Nov. 3.
Schmelkes, Frank C., deceased, Montclair, N. J., by M. Schmelkes, executrix, Montclair, N. J., assignor to Wallace & Tiernan Company, Inc. Monobenzyl ether of diethylstilbestrol. 2,658,080, Nov. 3.
Schmelkes, Margarete, executrix: *See*—
Schmelkes, Frank C.
Schmerling, Louis: *See*—
Haensel, Vladimir, and Schmerling.
Schmidle, Claude J., Moorestown, and R. C. Mansfield, Riverton, N. J., assignors to Rohm & Haas Company, Philadelphia, Pa. Carboalkoxyethylation reactions in presence of certain anion-exchange resins. 2,658,070, Nov. 3.
Schmidt, Benjamin F., Los Angeles, Calif. Hydraulic pump. 2,657,636, Nov. 3.
Schmidt, Edward G., La Grange, and C. R. Stone, Lombard, assignors to Crane Co., Chicago, Ill. Single handle thermostatic mixing valve. 2,657,860, Nov. 3.
Schoch, Adrien, Berne, Switzerland, assignor to Gibone Trust, Vaduz, Liechtenstein. Preparing a hemostatic agent. 2,658,020, Nov. 3.
Schornstein, Waldemar: *See*—
Saladin, Otto, Schornstein, and Frey.
Schroeder, George W., Louisville, Ky., assignor to General Electric Company. Multi-range resistance thermometer. 2,657,580, Nov. 3.
Schubert, John H., Troy, N. Y. Sanding device. 2,657,508, Nov. 3.
Schug, William W.: *See*—
Eade, Carleton W., and Schug.
Schutte, August H., Hastings on Hudson, assignor to The Lummus Company, New York, N. Y. Centrifugal filtration. 2,657,803, Nov. 3.
Schutte, August H., Hastings-on-the-Hudson, assignor to The Lummus Company, New York, N. Y. Coking apparatus. 2,658,031, Nov. 3.
Schutze, Henry G., and H. E. Cier, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Saturated hydrocarbon compositions. 2,657,985, Nov. 3.
Schweckendiek, Walter: *See*—
Reppe, Walter, Schweckendiek, and Kroeper.
Schwefsky, Melvin, Union, assignor to United Lacquer Mfg. Corp., Linden, N. J. Forming multicolor coating composition. 2,658,002, Nov. 3.
Scruggs, John L., North Sacramento, Calif. Hydraulic power unit. 2,657,674, Nov. 3.
Scudder, Robert M.: *See*—
Fiet, Owen O., and Scudder.
Searle, G. D., & Co., assignee: *See*—
Krimmel, Carl P.
Seaward, Charles W., Hamden, Conn., and J. Latorraca, Jamaica Plain, Mass., assignors to Mergenthaler Linotype Company. Typographical machine. 2,657,790, Nov. 3.
Selas Corporation of America, assignee: *See*—
Garrett, James W.
Seng Company, The, assignee: *See*—
Fox, Martin.
Sengebusch, Hans: *See*—
Graybill, Kenneth W., and Sengebusch.
Seymour, Clark E., Palestine, Ill. Gun hone. 2,657,507, Nov. 3.
Shaff, Ernest H., Spring Lake, assignor to Keller Tool Company, Grand Haven, Mich. Pressure fluid operated tool with pressure fluid control feed. 2,657,595, Nov. 3.
Shaff, Ernest H., Hamilton, Ind., assignor to Keller Tool Company, Grand Haven, Mich. Screw feed and drive mechanism. 2,657,721, Nov. 3.
Shaff, Ernest H., Hamilton, Ind., assignor to Keller Tool Company, Grand Haven, Mich. Expanding bit screw driver. 2,657,724, Nov. 3.
Shannon, Robert F.: *See*—
Coleman, Gordon A., Greene, Merriam, Miller, and Shannon.
Sharp, Campbell K., assignor to Sharvania Oil & Grease Corp., Memphis, Tenn. Lubricant distributor and economizer. 2,657,764, Nov. 3.
Sharvania Oil & Grease Corp., assignee: *See*—
Sharp, Campbell K.
Shell Development Company, assignee: *See*—
Braithwaite, Charles H., Jr., Martin, and Sutton.
Fay, Charles H., and Goodell.
Van der Waals, Joan H.
Sherman, John M., and E. W. Fisher, Minneapolis, Minn., assignors of one-third to Mid-Continent Radio-Television, Incorporated. Television apparatus. 2,658,103, Nov. 3.
Sherman-Klove Co., The, assignee: *See*—
Rueb, Theodore O.
Shropshire-O'Neill Tank Company, assignee: *See*—
Williams, Elmer R.
Shull, Gilbert M., Roslyn Heights, D. A. Kita, Jackson Heights, and J. W. Davisson, Levittown, assignors to Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Oxygenation of steroids. 2,658,023, Nov. 3.
Siemens & Halske, Aktiengesellschaft, assignee: *See*—
Hell, Rudolf.
Siemens-Schuckertwerke, Aktiengesellschaft, assignee: *See*—
Volk, Paul, and Spiesecke.
Siering, Robert L., and H. S. Ford, assignors to Johns-Manville Corporation, New York, N. Y. Device for driving fasteners. 2,657,383, Nov. 3.
Signer, Ralph J., Villa Park, assignor to The Visking Corporation, Chicago, Ill. Plastic compositions and articles produced therefrom. 2,658,048, Nov. 3.
Signer, Ralph J., Chicago, and K. F. Beal, Park Forest, assignors to The Visking Corporation, Chicago, Ill. Mixture of polychloroprene, vinyl chloride polymer, and butadiene-acrylonitrile copolymer. 2,658,050, Nov. 3.
Signer, Ralph J., Chicago, and K. F. Beal, Park Forest, assignors to The Visking Corporation, Chicago, Ill. Mixture of polychloroprene, vinyl chloride-acrylonitrile copolymer, and butadine-acrylonitrile copolymer. 2,658,051, Nov. 3.
Signer, Ralph J., Chicago, and K. F. Beal, Park Forest, assignors to The Visking Corporation, Chicago, Ill. Mixture of polyvinylidene chloride, vinyl chloride polymer, and butadine-acrylonitrile copolymer. 2,658,052, Nov. 3.
Signer, Ralph J., Chicago, and K. F. Beal, Park Forest, assignors to The Visking Corporation, Chicago, Ill. Mixture of polychloroprene vinyl chloride-vinylidene chloride copolymer, and butadiene-acrylonitrile copolymer. 2,658,053, Nov. 3.

Silver, Harold F., Denver, Colo. Double rotary diffusion battery. 2,658,010, Nov. 3.

Silverman, Sol B., assignor to Northwest Leather Goods Co., Chicago, Ill. Compartment insert for brief bags. 2,657,726, Nov. 3.

Simmons, Leon E., Claremont, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Reversible longwall mining machine. 2,657,915, Nov. 3.

Simpson, Barry, Billacombe, near Plymouth, assignor of one-half to Simpson, Fawcett & Company Limited, Billacombe, England. Perambulator and like vehicle having a toggle-operated brake mechanism. 2,657,937, Nov. 3.

Simpson, Fawcett & Company Limited, assignee: *See*—
Simpson, Barry.

Simpson, Robert O., Cincinnati, Ohio. Container cover. 2,657,822, Nov. 3.

Sinclair Refining Company, assignee: *See*—
Teter, John W., and Olson.

Singer Manufacturing Company, The, assignee: *See*—
Hale, Arthur N.
Johnson, Ralph E.

Skantze, Vincent J., Detroit, Mich. Telephone hanset holder. 2,658,116, Nov. 3.

Skilliman, Thomas S., Mosman, near Sydney, assignor to Punch Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia. Article dispensing system. 2,657,858, Nov. 3.

Skinner, Floyd H., Parkchester, assignor to Combustion Engineering, Inc., New York, N. Y. Pressure drum manhole cover and internal support therefor. 2,657,823, Nov. 3.

Skinner, Hazel B., assignee: *See*—
Bletcher, Ralph E., and Bentley.

Skipper, Harry C.: *See*—
Huber, Clyde L., and Skipper.

Sklenar, Lester J., assignor to Illinois Tool Works, Chicago, Ill. Drive fastener support. 2,657,894, Nov. 3.

Skorr, Elmer S., Colman, S. Dak. Fishing rod mount and actuator. 2,657,492, Nov. 3.

Slaughter, Charles E., New Canaan, Conn., assignor to Extruded Plastics, Inc. Making plastic articles. 2,657,431, Nov. 3.

Smalley, Burton M., assignor to Joslyn Mfg. and Supply Co., Chicago, Ill. Secondary rack. 2,657,889, Nov. 3.

Smith, Earle R., Alhambra, Calif., assignor to E. C. Smith. Carpet sweeper with pivotable brush support. 2,657,407, Nov. 3.

Smith, Edna C., assignee: *See*—
Smith, Earle R.

Smith, Harry R., Glen Ridge, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Television shading signal and clamping circuit. 2,658,104, Nov. 3.

Smith, Irene P., Needham, assignor to The William Carter Company, Needham Heights, Mass. Garment display form. 2,657,842, Nov. 3.

Smith, Lester C., West Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Liquid separator attachment for vacuum cleaners. 2,657,416, Nov. 3.

Smith, Lowell L., Tuckahoe, and J. J. Gennari, Yonkers, N. Y., assignors to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa. Dual wall register. 2,657,625, Nov. 3.

Smith, Luke E., assignor to Quick-Way Truck Shovel Co., Denver, Colo. Bucket for power shovels. 2,657,814, Nov. 3.

Smith, Paul M., Cambridge, Ohio. Vacuum brake apparatus. 2,657,777, Nov. 3.

Smith, Richard A., assignor to H. J. Heinz Company, Pittsburgh, Pa. Container packaging apparatus. 2,657,845, Nov. 3.

Smith, Rollin P.: *See*—
Rowe, Lancelot W., and Smith.

Smith, S., & Sons (England) Limited, assignee: *See*—
Milson, Frederick R.

Smith, Victor W., assignor to C. V. Hill & Company, Inc., Trenton, N. J. Snow eliminator for self-service cases. 2,657,546, Nov. 3.

Smitherman, Grady A.: *See*—
Casey, J. B., and Smitherman.

Smits, Hubertus J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Phonograph pickup. 2,658,115, Nov. 3.

Snoddy, Max E., Dallas, Tex. Device for producing signals at predetermined intervals. 2,657,748, Nov. 3.

Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, assignee: *See*—
Arbeit, Pierre, Dubois, and Lambert.
La Burthe, Pierre H.
Peyches, Ivan.

Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., assignee: *See*—
Levy, René L.

Societe Schneider and Cie, assignee: *See*—
Borel, Joseph A.

Sockell, William J., Raleigh, N. C. Journal box lubricator. 2,657,959, Nov. 3.

Soehner, Howard C., assignor to The Mengel Company, Louisville, Ky. Drawer slide for cabinets. 2,657,968, Nov. 3.

Solliday, Raymond E., and S. A. Steere, assignors to Wingfoot Corporation, Akron, Ohio. Thread gauging and flaw detecting device. 2,657,450, Nov. 3.

Solliday, Raymond E., and S. A. Steere, assignors to Wingfoot Corporation, Akron, Ohio. Stop motion device for strand manipulating apparatus. 2,657,451, Nov. 3.

Solomon, Daniel, assignor to Wagner-Woodruff Co., Los Angeles, Calif. Lighting fixture having angularly upwardly directed spot lamps. 2,658,137, Nov. 3.

Somogyi, Francis P., London, England. Shaker conveyer. 2,657,789, Nov. 3.

Sondermann, Karl: *See*—
Untermann, Walter, Sondermann, and Milbers.

Sonntag, Francis R., Dallas, Tex. Wall and ceiling protector and ventilator. 2,657,626, Nov. 3.

Sparklin, Charles H., and P. J. More, Chicago, Ill., assignors to Birtman Electric Company. Sole plate and hood construction for electric irons. 2,657,484, Nov. 3.

Spase, Charles B., Nedrow, assignor to Lipe-Rollway Corporation, Syracuse, N. Y. Cooling fan control for air-cooled engines. 2,657,852, Nov. 3.

Specialloid Limited, assignee: *See*—
Robinson, Albert S.

Spencer, Burdell D., Oxon Hill, Md., assignor to the United States of America as represented by the Secretary of the Army. Foot-measuring machine. 2,657,463, Nov. 3.

Spencer Turbine Company, The, assignee: *See*—
Smith, Lester C.

Spengler-Loomis Manufacturing Company, assignee: *See*—
Roger, Alex. A.

Sperry Corporation, The, assignee: *See*—
Ford, Hannibal C.
Meeks, Oscar L.

Spiesecke, Hans: *See*—
Volk, Paul, and Spiesecke.

Spoon, Walter O., and J. Dressel, Jr., Goldendale, Wash. Air raid alarm. 2,658,192, Nov. 3.

Spotswood, Robert E. L., assignor of fifty percent to I. J. Greenwald, Mobile, Ala. Live bait boat. 2,657,496, Nov. 3.

Spraragen, Louis, assignor to Bridgeport Fabrics, Inc., Bridgeport, Conn. Sealing strip. 2,657,438, Nov. 3.

Sprauer, Jerome W., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of hydrogen peroxide. 2,657,980, Nov. 3.

Sprung, Abraham, Brooklyn, N. Y. Route map viewer. 2,657,487, Nov. 3.

Stalger, Kurt: *See*—
Kamm, Wunibald I. E., Krautter, and Stalger.

Standard Oil Company, assignee: *See*—
Barr, Frank T.
Barr, Frank T., and Nelson.
Bielstein, Walter J.
Burney, Donald E., and Cerveny.
Jones, Robert H.
MacLaren, Frederick H., and Kaljnowski.
Peters, Edwin F., and Evering.
Proell, Wayne A.
Schutze, Henry G., and Cier.

Stanton, Robert E., Denver, Colo. High-temperature treatment of compounds. 2,657,917, Nov. 3.

Starr, John H., Mayville, assignor to John Deere Van Brunt Company, Horicon, Wis. Self-interrupting clutch. 2,657,780, Nov. 3.

Steczynski, Myron E., W. W. Biederstadt, and E. V. Rupp, assignors to The Bastian-Blessing Company, Chicago, Ill. Sirup pump. 2,657,833, Nov. 3.

Steere, Samuel A.: *See*—
Solliday, Raymond E., and Steere.

Stein, Richard R., assignor to Cleveland Fuel Equipment Company, Cleveland, Ohio. Pressure switch. 2,658,122, Nov. 3.

Stengel, Leonard A., and J. W. Brodhacker, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Preventing the physical disintegration of ammonium nitrate by temperature fluctuations. 2,657,977, Nov. 3.

Stevenson, Robert L., Barrington, R. I., assignor to Anco, Inc. Hydraulic break fuse. 2,657,706, Nov. 3.

Steward, Donald T., assignee: *See*—
Hull, Robert R.

Steward, Merrill F., assignee: *See*—
Hull, Robert R.

Steward, Roy F., assignee: *See*—
Hull, Robert R.

Stoffel, Hans F., Scarsdale, N. Y. Sealing tool. 2,657,600, Nov. 3.

Stoker, Lyman P., San Francisco, Calif. Automatic feeder. 2,657,784, Nov. 3.

Stolp, Samuel S., assignor to Cheatham Electric Switching Device Co., Incorporated, Louisville, Ky. Electric signal for trackless trolley coaches. 2,658,191, Nov. 3.

Stone, Carl R.: *See*—
Schmidt, Edward G., and Stone.

Strachan, Alexander W., Monongahela, Pa., assignor to United States Steel Corporation. Reeling rods. 2,658,012, Nov. 3.

Strobach, William E., Des Moines, Iowa. Sound deadening device for musical instruments. 2,657,609, Nov. 3.

Strobel, Howard M., New York, N. Y. Circuit breaker. 2,658,127, Nov. 3.

Stromberg-Carlson Company, assignee: *See*—
Holmes, Lynn C.
Kessler, Frank.

Stroup, Clinton E., Mansfield, Pa. Barbers' and beauticians' neck duster. 2,657,410, Nov. 3.

Stuebner, Arthur, La Porte, Ind. Stock pusher. 2,657,933, Nov. 3.

Sturtevant, Mark J., St. Clair Shores, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle sill mat. 2,657,948, Nov. 3.

Sullivan, William F., Roseland, and I. M. Panik, Elizabeth, N. J., assignors to National Lead Company, New York, N. Y. Solution for treatment of fibrous cellulosic materials. 2,658,000, Nov. 3.

Sumner, Charles R., Chandler, Ariz. Screw removing tool. 2,657,602, Nov. 3.

Sun Oil Company, assignee: *See*—
Hadley, Raymond F., Daugherty, and Young.

Sundstrand Machine Tool Co., assignee: *See*—
Kiefer, William R.

Sunstein, David E., Cynwyd, and A. C. Munster, Hatboro, assignors to Philco Corporation, Philadelphia, Pa. High impedance power supply. 2,658,117, Nov. 3.

Super, Ralph K.: *See*—
Williams, Ivor H., and Super.

Superior Concrete Accessories, Inc., assignee: *See*—
Hillberg, Bror.

Sutton, Reid E.: *See*—
Braithwaite, Charles H., Jr., Martin, and Sutton.

Swanoack, John H., and N. J. Jensen, Omaha, Nebr., assignors, by mesne assignments, to The Globe Company, Chicago, Ill. Overhead switch. 2,657,643, Nov. 3.

Sweeney, Melvin P., Hanford, Calif. Dental impression tray. 2,657,461, Nov. 3.

Sweetser, Bert M., Trona, assignor of one-third to M. Frishman, Los Angeles, Calif. Road barrier gate for parking lots. 2,657,486, Nov. 3.

Swift & Company, assignee: *See*—
Biddinger, Guy R., and Koonz.
Young, Harland H., and De Beukelaer.

Sylvania Electric Products Inc., assignee: *See*—
Hannahs, Wilson H.

T. M. M. (Research) Limited, assignee: *See*—
Westall, Arthur.

Tagliaferri, Frank P., and F. T. Gier, Baltimore, Md. Journal bearing lubricator. 2,657,958, Nov. 3.

Takeda Yakuhin Kogyo Kabushikigaisha, assignee: *See*—
Nishimitsu, Hiroshi, Nishikawa, and Hagihara.

Tarbox, Philip B., and G. C. Anderson, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass. Drawing mechanism for spinning and roving frames. 2,657,434, Nov. 3.

Taylor, Earl L., Hanover County, Va. Expansible and contractible reel holder. 2,657,874, Nov. 3.

Teetor, Ralph R., assignor to Perfect Circle Corporation, Hagerstown, Ind. Knurling machine. 2,657,598, Nov. 3.

Teletype Corporation, assignee: *See*—
Madsen, Berthel F.

Templeton, John B., Dallas, Tex. Erecting and positioning marine structures. 2,657,540, Nov. 3.

Terhune, Virginia, East Cleveland, assignor to The Victoreen Instrument Company, Cleveland, Ohio. Etching and polishing aluminum. 2,657,981, Nov. 3.

Terpstra, Marrine A., Kirkwood, assignor to Monsanto Chemical Company, St. Louis, Mo. Purification of paraaminosalicylic acid and its alkali metal salts. 2,658,073, Nov. 3.

Teter, John W., and L. E. Olson, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Cobalt magnesia-kieselguhr catalyst. 2,658,041, Nov. 3.

Texas Acidizers, Incorporated, assignee: *See*—
Core, Clark D., and Jones.

Texas Company, The, assignee: *See*—
Arnold, George B., and Kovach.

Thomas, Ivor L., and G. E. Roberts, South Farnborough, England, assignors, by mesne assignments, to Kelvin & Hughes Limited, Glasgow, Scotland. Gyromagnetic compass. 2,657,471, Nov. 3.

Thompson Products, Inc., assignee: *See*—
Raymor, Willard.
Thoren, Theodore R.

Thomson Machine Company, assignee: *See*—
Sawyer, Hilon W., and Gelly.

Thoren, Theodore R., Chagrin Falls, assignor to Thompson Products, Inc., Cleveland, Ohio. Fuel pump and control system. 2,657,635, Nov. 3.

Threadgold, Ronald: *See*—
Davison, Alan, and Threadgold.

Thring, Leonard G. P., Cambridge, England. Clinograph. 2,657,466, Nov. 3.

Tichenor, Edwin L., Clifton, and W. F. Cremins, Montclair, N. J., assignors to Curtiss-Wright Corporation. Welding apparatus. 2,658,162, Nov. 3.

Tidswell, Charles V., Adrian, Mich. Bicycle whistle. 2,657,662, Nov. 3.

Timken-Detroit Axle Company, The, assignee: *See*—
Williams, Ivor H., and Super.

Tindall, John B., Terre Haute, Ind., and J. W. Fraza, Jr., Joplin, Mo., assignors to Commercial Solvents Corporation, Terre Haute, Ind. Tetrahydrofurfuryliglycamines and producing same. 2,658,063, Nov. 3.

Tinnerman Products, Inc., assignee: *See*—
Hartman, Richard A.

Tipple, Richard: *See*—
Bender, Joseph, Jr., Eberly, and Tipple.

Torrence, Maynard F., Woodstown, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Plasticizing rubber. 2,658,091, Nov. 3.

Toulmin, Harry A., Jr., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Continuous metal production and continuous gas plating. 2,657,457, Nov. 3.

Toulmin, Harry A., Jr., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Method and apparatus for dehydration. 2,657,551, Nov. 3.

Trans-Trading Corporation, assignee: *See*—
Holcombe, Ralph L.

Tredway, Alfred B., Conway, Ark. Necktie knot clasp. 2,657,390, Nov. 3.

Trico Products Corporation, assignee: *See*—
Rappl, Anton.

Tripp, John G., and L. H. Brakel, Rifle, Colo., and G. D. Gould, El Cerrito, Calif., said Tripp and said Brakel assignors of two-third to the United States of America as represented by the Secretary of the Interior, and said Gould assignor to California Research Corporation, San Francisco, Calif. Apparatus for the retorting of oil shale and similar materials. 2,658,061, Nov. 3.

Troy Engine and Machine Company, assignee: *See*—
Nicholls, Malcolm B.

Tucker, Irving, Merrick, N. Y. Garment for retaining infants against displacement from a support. 2,657,688, Nov. 3.

Tullis, Lyell C.: *See*—
Baker, John G., Tullis, and Watry.

Turton, Arthur, and H. E. Hickman, Los Angeles, Calif. Detaching means for abrasive disks. 2,657,509, Nov. 3.

United Aircraft Corporation, assignee: *See*—
Conwell, Charles B.

United-Carr Fastener Corporation, assignee: *See*—
Bedford, William A., Jr.

United Fruit Company, assignee: *See*—
Robson, Hector H.

United Lacquer Mfg. Corp., assignee: *See*—
Schwefsky, Melvin.

United Shoe Machinery Corporation, assignee: *See*—
Choice, Frank C.
Eldridge, John C., and Flaherty.
Knott, Clyde L.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Backus, John G., and Peters.

United States Rubber Company, assignee: *See*—
Adams, James W.
Anderson, Everett V.
Barton, Bernard C.
Castricum, Martin.
Cuthbertson, George R., Buckwalter, and Danielson.
Williams, George M.

United States Steel Corporation, assignee: *See*—
Morrison, James J.
Strachan, Alexander W.

Universal Oil Products Company, assignee: *See*—
Haensel, Vladimir, and Schmerling.
Ipatieff, Vladimir N., and Pines.

Universal Winding Company, assignee: *See*—
Fiorino, Pasquale.

Untermann, Walter, Frankfurt am Main, K. Sondermann, Sprendlingen Kreis Offenbach, and A. Milbers, assignors to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany. Distillation method and apparatus. 2,658,029, Nov. 3.

Upjohn Company, The, assignee: *See*—
Haines, William J., and Kuizenga.

Upton, Edward J., Spondon, near Derby, England, assignor to British Celanese Limited. Extrusion of filament-forming materials. 2,657,427, Nov. 3.

Upton, Edward J., Spondon, near Derby, England, assignor to British Celanese Limited. Extrusion of filament-forming materials. 2,657,428, Nov. 3.

Upton, Edward J., Spondon, near Derby, England, assignor to British Celanese Limited. Feeding of materials. 2,657,430, Nov. 3.

Urban, Richard S., assignor to Rohm & Haas Company, Philadelphia, Pa. Preparing dimethoxyde-cadienes. 2,658,082, Nov. 3.

Van der Waals, Joan H., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Separation of oxygenated compounds. 2,658,089, Nov. 3.

Van Haften, Lester W., and G. D. Hanby, assignors to Walgreen Co., Chicago, Ill. Combination drinking glass and dish holder. 2,657,891, Nov. 3.

Van Norman Company, assignee: *See*—
Allen, Edward A., and Healy.

Van Werd, Johannes H. F.: *See*—
Anderson, Charles H. J., and van Werd.

Varnet, Pierre, Romainville, France. Loud-speaker. 2,657,758, Nov. 3.

Vaughan, Henry E.: *See*—
Malthaner, William A., Newby, and Vaughan.

Veenemans, Cornelis F., S. H. R. Visser, and F. Jansen, Eindhoven, Netherlands, assignors, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Tubular getter container. 2,657,452, Nov. 3.

Vicars, T. & T., Limited, assignee: *See*—
Derbyshire, Alfred, and Naylor.

Victor Chemical Works, assignee: *See*—
Woodstock, Willard H.

Victoreen Instrument Company, The, assignee: *See*—
Terhune, Virginia.

Visking Corporation, The, assignee: *See*—
Signer, Ralph J.
Signer, Ralph J., and Beal.

Visser, Simon H. R.: *See*—
Veenemans, Cornelis F., Visser, and Jansen.

Vogt, Henry, Machine Company, assignee: *See*—
Heuser, Henry V.

Volk, Paul, Erlangen, and H. Spiesecke, Frankfurt am Main, assignors to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany. Speed controllable drive with electromagnetic gear couplings. 2,657,587, Nov. 3.

Volpin, Alexander S., Houston, Tex. Smooth opening automatic lubricated gate valve. 2,657,898, Nov. 3.

Von Lassberg, Dietrich, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg Germany. Piston for internal-combustion engines. 2,657,961, Nov. 3.

Von Maur, Jacob E., Upper Arlington, Ohio, assignor to Metalwash Machinery Company, Elizabeth, N. J. Conveyer mechanism. 2,657,696, Nov. 3.

Von Stroeser, Walter, Lake Villa, Ill., assignor to Lectromatic Devices, Inc. Holding relay. 2,658,123, Nov. 3.

Von Stroeser, Walter, assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Beverage dispensing apparatus. 2,657,628, Nov. 3.

Von Stroh, Gerald F. H., Huntington, W. Va., assignor to Bituminous Coal Research, Inc., Washington, D. C. Rotary cutter bit. 2,657,916, Nov. 3.

Von Wangenheim, Adolf, assignor to Detroit Controls Corporation, Detroit, Mich. Thermostatic mixing valve. 2,657,859, Nov. 3.

Wade, Francis A., Point Pleasant, and W. Metzner, Philadelphia, Pa. Controlled lead pencil. 2,657,671, Nov. 3.

Wagner-Woodruff Co., assignee: *See*—
Solomon, Daniel.

Walch, Lila M., Los Angeles, Calif. Collapsible tube closure openable by pressure of the contents. 2,657,829, Nov. 3.

Walgreen Co., assignee: *See*
Maker, Edwin J., and Gibson.
VanHaften, Lester W., and Hanby.

Walker, Brooks, Piedmont, Calif. Venetian blind headrail. 2,657,747, Nov. 3.

Walker, Forrest A., Wheaton, Ill., assignor to General Electric Company. Dishwashing apparatus provided with centrifugal separation sump. 2,657,695, Nov. 3.

Walker, Forrest A., Wheaton, Ill., assignor to General Electric Company. Dishwashing apparatus and cabinet structure. 2,657,697, Nov. 3.

Walker, William H., Hollywood, Calif. Toilet flush valve. 2,657,395, Nov. 3.

Wallace & Tiernan Company, Inc., assignee: *See*—
Schmelkes, Frank C.

Wallace, William E., Belvidere, N. J., and W. W. Williams, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Fluorescent agents from diamino stilbene. 2,658,064, Nov. 3.

Wallace, William E., Belvidere, N. J., and W. W. Williams, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Triazine fluorescent agents. 2,658,065, Nov. 3.

Walsh, Robert H., Woodstown, N. J., and W. W. Peckman, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Incorporating polychloroprene in paper. 2,657,991, Nov. 3.

War, United States of America as represented by the Secretary of, assignee: *See*—
Bainbridge, Kenneth T.
Dorne, Arthur, and Lazarus.
Evans, John E., Fletcher, and Rieke.
Evans, John E., and Rieke.
Gallagher, Charles J., and Ruthberg.
McConnell, Robert A.

Ward, Robert C., Cincinnati, Ohio. Carton construction. 2,657,792, Nov. 3.

Warrick, Thurlow J.: *See*—
Brancke, Carl A., and Warrick.

Warrick, Thurlow J., Erie, Pa., assignor to General Electric Company. Traction motor system with series-parallel switching relay. 2,658,174, Nov. 3.

Watkins, Lee K., Louisville, Ky., assignor to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa. Drain valve operating means. 2,657,398, Nov. 3.

Watrous, Gilbert A., Chicago, Ill. Table and the like. 2,657,964, Nov. 3.

Watry, Louis T.: *See*—
Baker, John G., Tullis, and Watry.

Webb, Christopher F., London, England, assignor to General Register Corporation, Long Island City, N. Y. Ticket storage and issuing equipment. 2,657,750, Nov. 3.

Weber, Joseph A., Prospect Heights, Ill. Solvent applicator for imprinting machines. 2,657,665, Nov. 3.

Weber, Vitészlav, Cardiff, Wales, assignor to Acro Zipp Fasteners Limited, London, England. Slider for slide fasteners. 2,657,445, Nov. 3.

Webster, John F.: *See*—
Johnson, Edgar B., and Webster.

Weimer, Glen L., assignor to Durakool, Inc., Elkhart, Ind. Mercury relay. 2,658,124, Nov. 3.

Weisenbach, Charles O., assignor to Bendix Aviation Corporation, South Bend, Ind. Flow distributor. 2,657,702, Nov. 3.

Weisglass, David M.: *See*—
Katz, Bernard, and Weisglass.

Weiss, Benjamin, Flushing, N. Y. Garment hanger with magnetic action and the like. 2,657,844, Nov. 3.

Welch, Claude A., assignor to Welch Electric Company, Incorporated, Cincinnati, Ohio. Remote-control system for direct current welding. 2,658,132, Nov. 3.

Welch Electric Company, Incorporated, assignee: *See*—
Welch, Claude A.

Welp, Margaret L.: *See*—
Hill, Eugene F., and Welp.

Wendt, Baldwin W., Milwaukee, Wis. Door protector and check. 2,657,419, Nov. 3.

Wendt, Robert H., assignee: *See*—
Berg, Elaine.

Wenzelberger, Elwood P., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Freezing apparatus. 2,657,549, Nov. 3.

Wenzelberger, Elwood P., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Dehydration by freezing. 2,657,555, Nov. 3.

Werkema, Thomas E., assignor to The Dow Chemical Company, Midland, Mich. Making high polymers of alpha-methyl styrene. 2,658,058, Nov. 3.

Westall, Arthur, Accrington, assignor to T. M. M. (Research) Limited, Rossendale, England. Spindle mounting for textile spinning or like machines. 2,657,524, Nov. 3.

Western Electric Company, Incorporated, assignee: *See*—
Bennett, Malcolm O., and Cradduck.
Pike, Harold S.

Westfield Manufacturing Company, The, assignee: *See*—
Adzima, George R.

Westinghouse Electric Corporation, assignee: *See*—
Leippe, Richard M.
Savage, Conwell.

Weston Electrical Instrument Corporation, assignee: *See*—
Eadie, Edward M., Jr.

Wetterholm, Gustav A., and E. L. Nilsson, assignors to Nitroglycerin Aktiebolaget, Gyttorp, Sweden. Recovery of nitroform from a reaction mixture containing nitric acid and nitroform. 2,658,084, Nov. 3.

Wheeler Lumber Bridge and Supply Co., assignee: *See*
Jensen, Carl T.

White, Halbert L., Kansas City, Mo. Picture hanger. 2,657,887, Nov. 3.

Whitehead, Cyril D., Cardiff, Wales, assignor to John Curran Limited, Cardiff, Wales, Great Britain. Engine test bench. 2,657,574, Nov. 3.

Whitfield, Edward C., Kitts, Ky. Cable safety fuse. 2,658,125, Nov. 3.

Whitin Machine Works, assignee: *See*—
Dudley, John S., and Brandt.

Wiesner, Doris P., Winnipeg, Manitoba, Canada. Dress form. 2,657,843, Nov. 3.

Wightman, William W., assignor to Bell & Howell Company, Chicago, Ill. Control for photographic copying apparatus. 2,657,612, Nov. 3.

Wilg, Selmer L., Los Angeles, Calif., assignor to B. J. Audette. Automatic gear shifting mechanism. 2,657,779, Nov. 3.

Wilcock, Donald F.: *See*—
Booser, Earl R., and Wilcock.

Wilcox, Roy C., Collingswood, N. J., assignor to Radio Corporation of America. Neutralization of radio-frequency power supplies. 2,658,176, Nov. 3.

Wildhack, William A., Arlington, Va. Liquid oxygen converter apparatus. 2,657,542, Nov. 3.

Wildt and Company Limited, assignee: *See*—
Saunders, Alfred P., and Holmes.

Williams Brothers Company, assignee: *See*—
Lewis, Jesse M.

Williams, Elmer R., Springfield, Mo., assignor to Shropshire-O'Neill Tank Company, Great Bend, Kans. Oil treating apparatus having settling tank heating means. 2,658,025, Nov. 3.

Williams, George M., New Haven, Ind., assignor to United States Rubber Company, New York, N. Y. Protected wood structure and making same. 2,658,015, Nov. 3.

Williams, Gethin, Oxford, and A. P. Fowler, assignors to Carrier Engineering Company Limited, London, England. Treating vehicle bodies and chassis. 2,658,008, Nov. 3.

Williams, Ivor H., Birmingham, and R. K. Super, assignors to The Timken-Detroit Axle Company, Detroit, Mich. Actuator for speed changing mechanism. 2,657,585, Nov. 3.

Williams, Robert M., Toledo, Ohio, assignor to Packard Motor Car Company, Detroit, Mich. Turbine rotor for turbojet engines. 2,657,902, Nov. 3.

Williams, William A., assignor to The American Pulley Company, Philadelphia, Pa. Pulley. 2,657,584, Nov. 3.

Williams, William W.: *See*—
Wallace, William E., and Williams.

Wilson, Albert E., South Bend, Ind., and H. D. Hukill, Cleveland, Ohio, assignors to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,657,588, Nov. 3.

Wilson, Frederick D.: *See*—
Lock, Douglas S., and Wilson.

Wimmer, Ludwig: *See*—
Holstebroe, Kay E., Ardell, and Wimmer.

Wine, William E., Parker, Va. Brake rigging. 2,657,766, Nov. 3.

Wingfoot Corporation, assignee: *See*—
Chamberlain, Richard K.
Ford, Charles J.
Merrill, James A.
Solliday, Raymond E., and Steere.

Winkler, Max, Zurich, Switzerland, assignor to The National Cash Register Company, Dayton, Ohio. True negative overdraft mechanism for plural totalizers. 2,657,855, Nov. 3.

Winslow, Arthur E., Andover, Va. Foot and/or footwear protector. 2,657,477, Nov. 3.

Wittenberg, Arthur E., Los Angeles, Calif. Window ventilator. 2,657,624, Nov. 3.

Wolfe, Charles V., Indianapolis, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Saw with planer tooth. 2,657,720, Nov. 3.

Wolfe, Ralph A., Wichita, Kans. Action for upright pianos. 2,657,608, Nov. 3.

Wolff, Marie, Tulsa, Okla. Brassière. 2,657,386, Nov. 3.

Woock, Herbert J., Alhambra, Calif. Means and method of feeding to impact crushers. 2,657,864, Nov. 3.

Woodson, Thomas T., Bridgeport, Conn., assignor to General Electric Company. Drive mechanism for washing machines and the like. 2,657,783, Nov. 3.

Woodstock, Willard H., Crete, Ill., assignor to Victor Chemical Works. Manganous ferrous phosphate composition. 2,657,992, Nov. 3.

Woodward Governor Company, assignee: *See*—
Parker, George E.

Woodward Iron Company, assignee: *See*—
Casey, J. B., and Smitherman.

Woodward, Robert B., Cambridge, Mass. Copolymer of L-leucine and DL-phenylalanine. 2,657,972, Nov. 3.

Woolfolk, Anderson L., Pendletons, Va. Detachable light. 2,658,135, Nov. 3.

Wurlitzer, Rudolph Company, The, assignee: *See*—
Von Stroeser, Walter.

Young, Austin E., Syracuse, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill. Slip clutch. 2,657,557, Nov. 3.

Young, Austin E., Onondaga, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill. Potato digger having means for separating vines and stones from potatoes. 2,657,798, Nov. 3.

Young, Frank A.: *See*—
Hadley, Raymond F., Daugherty, and Young.

Young, Harland H., Western Springs, and F. L. De Beukelaer, Chicago, assignors to Swift & Company, Chicago, Ill. Liquid glue composition. 2,658,001, Nov. 3.

Young, Herbert, assignor to National Brass Company, Grand Rapids, Mich. Lost motion cartridge for keys in knob locks. 2,657,567, Nov. 3.

Zeidler, Reinhold C., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Method and apparatus for adjusting clutch release levers. 2,657,732, Nov. 3.

Zeidler, Reinhold C., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Friction clutch and lever assembly. 2,657,781, Nov. 3.

Ziebell, Harvey R., Oshkosh, Wis. Folding fish net. 2,657,491, Nov. 3.

Zimmermann, Joseph J., assignor to The Electronic Secretary, Inc., Milwaukee, Wis. Telephone answering and message recording device. 2,658,107, Nov. 3.

Zwaard, Henricus C. A., Rijswijk, assignor to Machinefabriek Reineveld N. V., Delft, Netherlands. Laundry ironing machine. 2,657,483, Nov. 3.

LIST OF DESIGN INVENTIONS

Airplane. M. S. Emery. 170,751, Nov. 3.
Ash tray. J. L. Chandler. 170,747, Nov. 3.
Attachment for bicycles in representation of a pony. B. B. West, Jr. 170,784, Nov. 3.
Automobile stone shield. M. C. Mawhinney. 170,761, Nov. 3.
Battery charger casing. L. A. Medlar and C. Shuler. 170,762, Nov. 3.
Bottle. L. J. Hexel. 170,754, Nov. 3.
Bottle. D. G. Hills. 170,755, Nov. 3.
Cabinet and hanging shelf unit, Combined. H. R. Trout and F. M. Hill. 170,777, Nov. 3.
Clock and radio cabinet, Combination. L. H. Wilson. 170,785, Nov. 3.
Compact. C. M. Del Mas. 170,750, Nov. 3.
Container unit for disinfectants, deodorants, insecticides, and the like. H. Rosenthal. 170,770, Nov. 3.
Dental abrading unit. R. C. Angell. 170,739, Nov. 3.
Desk. J. T. Armbruster. 170,740, Nov. 3.
Diagnostic instrument head. M. C. Burrett. 170,744, Nov. 3.
Dish or the like. E. Zeised. 170,788, Nov. 3.
Dress. E. T. Bekeschus. 170,742, Nov. 3.
Dress. M. Verrand. 170,779, Nov. 3.
Fabric or similar article, Plastic coated. D. A. Saporito. 170,775, Nov. 3.
Filter and manifold for internal-combustion engines, Combined. H. R. Sobeck. 170,776, Nov. 3.
Fryer, French. V. A. Petertil. 170,766, Nov. 3.
Game apparatus, Tethered ball. A. Katherton. 170,758, Nov. 3.
Handbag. T. Rosenberg and H. T. Silverman. 170,769, Nov. 3.
Head of an aerosol valve. R. K. Boyer and H. W. Krohn, Jr. 170,743, Nov. 3.
Hook for a trouser waistband. H. H. Wood. 170,787, Nov. 3.
Lamp, Floor. W. Rosenthal. 170,774, Nov. 3.
Lamp, Table. W. Rosenthal. 170,771–3, Nov. 3.
Lazy Susan. D. Meepos. 170,763, Nov. 3.
Paper or similar article, Wrapping. W. L. Wolf. 170,786, Nov. 3.
Planter, Hand. G. W. Turner. 170,778, Nov. 3.
Pocketknife and lighter, Combination. E. S. Polk. 170,767, Nov. 3.
Porch column. W. L. Enghauser. 170,752, Nov. 3.
Radio clock and pen set, Combination. S. E. Adler. 170,738, Nov. 3.
Shoe. T. O. Wegner. 170,782–3, Nov. 3.
Shoe or similar article. G. Preti. 170,768, Nov. 3.
Sock, Bobby. C. T. Collins. 170,749, Nov. 3.
Spectacle frame or the like. W. C. Carmichael. 170,745–6, Nov. 3.
Stocking, Lady's. F. Hoffecker. 170,756, Nov. 3.
Tablecloth. H. D. Hooven. 170,757, Nov. 3.
Table, Drop-leaf dining. R. J. Luger. 170,760, Nov. 3.
Tire. J. F. Newman. 170,765, Nov. 3.
Tool, Dent-removing. L. M. Back. 170,741, Nov. 3.
Tool, Plaster cast spreading. T. C. Ward. 170,780, Nov. 3.
Toy, Educational. A. F. Fukal. 170,753, Nov. 3.
Toy figure or similar article. V. G. Weaver. 170,781, Nov. 3.
Toy, Monorail. L. Cohen and W. H. Reineking. 170,748, Nov. 3.
Toy shopping cart or similar article. H. Kesler. 170,759, Nov. 3.
Waistband. J. H. Morgan. 170,764, Nov. 3.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 3D DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Action for upright pianos. R. A. Wolfe. 2,657,608, Nov. 3.
Actuating mechanism. E. J. Dillman. 2,657,711, Nov. 3.
Actuator for speed changing mechanism. I. H. Williams and R. K. Super. 2,657,585, Nov. 3.
Adhesive applying device for case closing and sealing apparatus. K. Holstebroe, E. Ardell, and L. Wimmer. 2,657,664, Nov. 3.
Adjusting and latch means for slidable side jaw wrenches. K. F. Finn. 2,657,606, Nov. 3.
Adjusting clutch release levers, Method and apparatus for. R. C. Zeidler. 2,657,732, Nov. 3.
Adjusting thermostatic relays, Means for. R. Filliette. 2,658,126, Nov. 3.
Aerosols, Production of. P. M. R. Barret. 2,658,169, Nov. 3.
Air control ring. R. C. Brierley. 2,657,741, Nov. 3.
Airfoil support structure. J. A. Perry. 2,657,882, Nov. 3.
Alarm, Air raid. W. O. Spoon and J. Dressel, Jr. 2,658,192, Nov. 3.
Alumina hydrate crystallization. M. A. Johnson. 2,657,978, Nov. 3.
Aluminum borohydride, Preparation of. J. B. Hinkamp. 2,657,975, Nov. 3.
Amine sulfonates and products obtained thereof, Preparing. M. Kosmin. 2,658,072, Nov. 3.
Anchoring device for insulated flexible electric cables. J. S. Atkins. 2,657,890, Nov. 3.
Anchoring means for wavy wire spring ends. R. F. Kruszona. 2,657,738, Nov. 3.
Antenna, Cavity. A. Dorne and D. Lazarus. 2,658,145, Nov. 3.
Antenna, Indoor television. G. P. Kearse. 2,658,144, Nov. 3.
Antenna system, Ultrahigh-frequency broadcast. O. O. Fiet and R. M. Scudder. 2,658,143, Nov. 3.
Antidrip device for coffee cups and the like. E. Berg. 2,657,559, Nov. 3.
Apparatus for and method of handling and washing ampoules and vials in packed-lots. R. N. Price. 2,658,011, Nov. 3.
Apparatus for dispensing carbonated beverages. L. E. Mendonca. 2,657,952, Nov. 3.
Apparatus for feeding a plurality of selectively oriented elongated articles. C. S. Kasper. 2,657,404, Nov. 3.
Apparatus for fishing through ice. A. P. Brundage. 2,657,494, Nov. 3.
Apparatus for fluid treatment of strand material. P. L. Pendleton. 2,657,565, Nov. 3.
Apparatus for impregnating and coating porous bodies. H. N. Maier. 2,657,668, Nov. 3.
Apparatus for liquid treatment of vehicle bodies. A. P. Fowler. 2,657,666, Nov. 3.
Apparatus for making wax candles. D. J. Keogh. 2,657,425, Nov. 3.
Apparatus for measuring the level of liquids. O. Falk. 2,657,577, Nov. 3.
Apparatus for mixing finely divided solid particles and liquid. M. B. Nicholls. 2,657,911, Nov. 3.
Apparatus for open butt welding metal workpieces. J. J. Crowe. 2,657,660, Nov. 3.
Apparatus for packaging commodities. H. P. Lewis. 2,657,510, Nov. 3.
Apparatus for raising and supporting a lawn mower and including blade sharpening means. C. W. Bruffey. 2,657,502, Nov. 3.
Apparatus for removing barbs from the quills of feathers. A. J. Naab. 2,657,432, Nov. 3.
Apparatus for ruling negatives in the photolithographic art. W. E. Lewis. 2,657,467, Nov. 3.
Apparatus for separating oil from coolant liquids. A. M. Sargent. 2,658,040, Nov. 3.
Apparatus for testing flexible members. M. Castricum. 2,657,573, Nov. 3.
Apparatus for the compression of the grooves of helically grooved tubes and hoses. A. C. Hussnigg. 2,657,617, Nov. 3.
Apparatus for the manufacture of multicellular glass. I. Peyches. 2,658,096, Nov. 3.
Apparatus for the retorting of oil shale and similar materials. J. G. Tripp, L. H. Brakel, and G. D. Gould. 2,658,061, Nov. 3.
Apparatus for turning stockings and the like. F. A. Landucci and E. I. Rusted. 2,657,841, Nov. 3.
Apparatus for vaporizing liquid fuel. A. B. Newton. 2,657,744, Nov. 3.
Application of plastic substances to biscuits and the like articles. A. Derbyshire and J. F. Naylor. 2,657,646, Nov. 3.
Aqueous dispersions of butyl rubber-natural rubber blends. E. V. Anderson. 2,658,044, Nov. 3.
Artificial leg, Fluid-cushioned. J. Hailer. 2,657,393, Nov. 3.
Atomizer located upstream of a flame stabilizing baffle, Liquid fuel. J. Reid and A. G. Earl. 2,657,532, Nov. 3.
Auger, Soil. F. E. Fleming. 2,657,910, Nov. 3.
Automatic feeder. L. P. Stoker. 2,657,784, Nov. 3.
Awning, Ventilated. P. Moser. 2,657,437, Nov. 3.
Axle with steerable stub axles, Rocking. M. B. Beebe. 2,657,939, Nov. 3.
Bait boat, Live. R. E. L. Spotswood. 2,657,496, Nov. 3.
Barking machine. T. O. Hillbom. 2,657,722, Nov. 3.
Basic structure for auxiliary seats or the like. T. B. McCarty. 2,657,739, Nov. 3.
Battery, Double rotary diffusion. H. F. Silver. 2,658,010, Nov. 3.
Battery hold-down frame and forming same. A. V. Brogren. 2,657,756, Nov. 3.
Battery with conductive tape intercell connections, Dry. J. J. Coleman and S. Kurlandsky. 2,658,098, Nov. 3.
Bead construction. T. M. Dunham. 2,657,775, Nov. 3.
Bearing for disk harrows. H. T. McNally. 2,657,957, Nov. 3.
Bearing support for vertical agitating shafts. A. J. Liebman and Joseph W. Dorsey. 2,657,912, Nov. 3.
Bed, Convertible. M. P. Rochford. 2,657,399, Nov. 3.
Bench, Engine test. C. D. Whitehead. 2,657,574, Nov. 3.
Bezel retaining means for instrument cases. J. J. Jankot. 2,657,827, Nov. 3.
Bicycle kick stand construction. G. R. Adzima. 2,657,941, Nov. 3.
Bio-oxidation of steroids. W J. Haines and M. H. Kuizenga. 2,658,022, Nov. 3.
Bit : *See*—
  Rotary cutter bit.
Bituminous materials and preparing the same. F. H. MacLaren and M. L. Kalinowski. 2,658,026, Nov. 3.
Blade adjusting means for safety razors. H. B. Carter. 2,657,459, Nov. 3.
Blank forming apparatus. C. W. Eade and W. W. Schug. 2,657,403, Nov. 3.
Block : *See*—
  Traveling block.
Block or tile, Acoustic. C. C. Creamer. 2,657,759, Nov. 3.
Board : *See*—
  Vacuum spotting board.
Bottom-flushing apparatus for lauter tubs. J. Epstein. 2,657,804, Nov. 3.
Box : *See*—
  Collapsible box.
  Cover-operated display box.
Bracket : *See*—
  Computer shutter cam plate retaining bracket.
Brake : *See*—
  Disk brake. Spindle brake.
  Full-floating brake.
Brake. P. H. Perrot. 2,657,774, Nov. 3.
Brake. K. K. Probst. 2,657,769, Nov. 3.
Brake adjustment, Automatic. P. A. Driscoll. 2,657,773, Nov. 3.
Brake apparatus, Vacuum. P. M. Smith. 2,657,777, Nov. 3.
Brake arrangement, Hand. W. R. Schettler. 2,657,771, Nov. 3.
Brake assembly. B. E. House. 2,657,767, Nov. 3.
Brake rigging. W. E. Wine. 2,657,766, Nov. 3.
Brassière. M. Wolff. 2,657,386, Nov. 3.
Breaker arm. C. A. Nichols and A. E. Riggs. 2,658,129, Nov. 3.
Breakout table. G. E. Failing. 2,657,908, Nov. 3.
Bromination of polyhalomethanes. R. P. Ruh and R. A. Davis. 2,658,086, Nov. 3.
Bucket for power shovels. L. E. Smith. 2,657,814, Nov. 3.
Bung for beer barrels or the like, Plastic. V. Alvear. 2,657,817, Nov. 3.
Cabinet : *See*—
  Roll type paper dispensing cabinet.
Cabinet structure, Mobile radio. W. W. Coxe, Jr. 2,658,101, Nov. 3.
Cable guiding apparatus. H. S. Pike. 2,657,879, Nov. 3.
Cap : *See*—
  Tank cap. Vent cap.
Cap forming apparatus. I. Kiwad. 2,657,839, Nov. 3.
Car panel, Rail. F. A. Ecoff. 2,657,645, Nov. 3.

Carbamic acid esters, Substituted. R. Duschinsky. 2,658,067, Nov. 3.
Carboalkoxyethylation reactions in presence of certain anion-exchange resins. C. J. Schmidle and R. C. Mansfield. 2,658,070, Nov. 3.
Carboxylic acids and their anhydrides, Preparing. W. Reppe, W. Schweckendiek, and H. Kroeper. 2,658,075, Nov. 3.
Cardio-pneumo-electrodermograph. R. Koller. 2,657,683, Nov. 3.
Cart for baby chick batteries, Servicing. F. P. Fabel. 2,657,936, Nov. 3.
Carton construction. R. C. Ward. 2,657,792, Nov. 3.
Cartridge for keys in knob locks, Lost motion. H. Young. 2,657,567, Nov. 3.
Case: *See*—
Refrigerated display case. Spectacle case.
Case for protecting snelled fishing hooks. O. M. Beaver. 2,657,497, Nov. 3.
Casting apparatus, Centrifugal. R. C. Myers. 2,657,440, Nov. 3.
Center filling and bracing of carloads. H. C. Pierce. 2,657,644, Nov. 3.
Centrifugal device. W. D. Harrison. 2,657,920, Nov. 3.
Centrifugal filtration. A. H. Schutte. 2,657,803, Nov. 3.
Centrifugal separation of urea complexes from organic mixtures. G. B. Arnold and L. Kovach. 2,658,060, Nov. 3.
Chain: *See*—
Tire chain.
Chain device, Tire. R. E. Jackson. 2,657,728, Nov. 3.
Chair: *See*—
Convertible chair.
Cheese making method. R. Miollis. 2,657,994, Nov. 3.
Cheese, Manufacture of. C. Arkin. 2,657,993, Nov. 3.
Chlorination of cyclopentadiene. M. Kleiman. 2,658,085, Nov. 3.
Chlorination of ethylene in dilute mixtures. R. Landau and R. B. Egbert. 2,658,088, Nov. 3.
Chlorination of olefins in dilute mixtures. R. Landau and R. B. Egbert. 2,658,087, Nov. 3.
Circuit: *See*—
Generator coupling circuit.
Circuit breaker. H. M. Strobel. 2,658,127, Nov. 3.
Circuit, breaker, Compressed air. H. Forwald. 2,658,128, Nov. 3.
Circuit for cathode-ray tubes, Focus. W. J. Grunwald. 2,658,164, Nov. 3.
Circular slide wire resistance element. E. A. Hamacher and K. Lowitzsch. 2,658,131, Nov. 3.
Clamp: *See*—
Portable saw filing clamp.
Clapper and gong assembly for telephone ringers. R. T. Jenkins. 2,658,193, Nov. 3.
Clasp, Neektie knot. A. B. Tredway. 2,657,390, Nov. 3.
Claw hammer with adjustable leverage fulcrum. R. W. Johnson. 2,657,903, Nov. 3.
Cleaning device. O. L. Murdock. 2,657,413, Nov. 3.
Clinograph. L. G. P. Thring. 2,657,466, Nov. 3.
Clip: *See*—
Mounting clip.
Clock and hour angle indicator, Universal time. C. H. Allen. 2,657,525, Nov. 3.
Clock, Self-winding auto. A. Gazda. 2,657,526, Nov. 3.
Clod breaker. L. E. Gilreath. 2,657,619, Nov. 3.
Closure making machine. H. Z. Gora. 2,657,426, Nov. 3.
Closure, operating, and controlling device. R. Crow. 2,657,925, Nov. 3.
Closure remover for bottles with automatic closure ejectors, Solenoid operated. D. H. Packer. 2,657,599, Nov. 3.
Closure top. J. Norden. 2,657,848, Nov. 3.
Clothesline reel. R. J. Kingsley. 2,657,875, Nov. 3.
Clutch: *See*—
Self-interrupting clutch. Slip clutch.
Clutch and lower assembly, Friction. R. C. Zeidler. 2,657,781, Nov. 3.
Clutch for lawn mowers and trimmers. G. D. Berdan. 2,657,517, Nov. 3.
Coating composition having accelerated drying time and accelerating same. L. E. Klein and A. R. Hempel. 2,658,003, Nov. 3.
Coating method and apparatus, Electrostatic. E. M. Ransburg. 2,658,009, Nov. 3.
Cobalt magnesia-kieselguhr catalyst. J. W. Teter and L. E. Olson. 2,658,041, Nov. 3.
Coffee maker, Automatic. P. J. Kircher. 2,658,134, Nov. 3.
Coking apparatus. A. H. Schutte. 2,658,031, Nov. 3.
Collapsible box. H. L. Metzger. 2,657,851, Nov. 3.
Color micro-facsimile system. A. N. Goldsmith. 2,658,102, Nov. 3.
Combination drinking glass and dish holder. L. W. Van Haften and G. D. Hanby. 2,657,891, Nov. 3.
Combination photographic and magnetic sound record and producing same. D. L. Blaney. 2,657,932, Nov. 3.
Combustion of liquid fuel, vaporization of liquids, and mixing of gaseous fluids, Process of and apparatus for. E. T. Bleecker. 2,657,745, Nov. 3.
Commutator. J. Bender, Jr., J. Eberly, and R. Tipple. 2,658,158, Nov. 3.
Compass, Gyromagnetic. I. L. Thomas and G. E. Roberts. 2,657,471, Nov. 3.
Compensating for liquid volume variations in hydraulic remote control systems, Means for. R. L. Levy. 2,657,536, Nov. 3.
Composition for preventing deposition and corrosion in oil well equipment. C. D. Core and E. N. Jones. 2,658,036, Nov. 3.
Computer shutter cam plate retaining bracket. J. M. Phillips. 2,657,853, Nov. 3.
Computing apparatus, Aircraft load. J. Carreyette. 2,657,857, Nov. 3.
Concrete block handling tool. L. F. Looze. 2,657,571, Nov. 3.
Condenser converter, Vibrating. H. Reese, Jr. 2,658,173, Nov. 3.
Confection machinery. E. D. Rapisarda. 2,657,647, Nov. 3.
Connector: *See*—
Electrical connector.
Multiple electric connector.
Sash cord connector.
Construction of turbine rotors. R. C. McLeod. 2,657,901, Nov. 3.
Container: *See*—
Cosmetic container. Shipping container.
Key container. Tubular getter container.
Milk can container.
Container bottom structure. G. W. Ludowitz. 2,657,826, Nov. 3.
Container cover. R. O. Simpson. 2,657,822, Nov. 3.
Container stand. G. E. Balch. 2,657,809, Nov. 3.
Continuous resin process. G. A. Coleman, R. B. Greene, J. H. Merriam, S. P. Miller, and R. F. Shannon. 2,658,054, Nov. 3.
Control apparatus for turbojet engines. L. Lee, II. 2,657,530, Nov. 3.
Control for photographic copying apparatus. W. W. Wightman. 2,657,612, Nov. 3.
Control system, Cotton feed. W. W. Bledsoe. 2,657,474, Nov. 3.
Controlling the supply of liquid fuel to combustion prime movers, Means for. O. N. Lawrence. 2,657,529, Nov. 3.
Convertible chair. J. J. Duffy and J. Corngold. 2,657,736, Nov. 3.
Conveyer belt, Woven wire. D. G. Merrill. 2,657,788, Nov. 3.
Conveyer, Flight. A. R. and J. B. Long. 2,657,787, Nov. 3.
Conveyer mechanism. J. E. von Maur. 2,657,696, Nov. 3.
Conveyer, Portable. H. T. Loberg. 2,657,786, Nov. 3.
Conveyer, Shaker. F. P. Somogyi. 2,657,789, Nov. 3.
Cooling spray dried detergents. L. A. Ledgett, C. W. Deane, and J. J. Mahoney. 2,657,797, Nov. 3.
Cooling system for the head portion of pistons of high-speed internal-combustion engines. K. Maybach. 2,657,678, Nov. 3.
Copolymer of L-leucine and DL-phenylalanine. R. B. Woodward. 2,657,972, Nov. 3.
Corn popping machine. J. Lindstrom and B. C. Case. 2,657,627, Nov. 3.
Cosmetic container. L. E. Isele. 2,657,794, Nov. 3.
Cotton fluffer, Rotary. J. D. Rust. 2,657,515, Nov. 3.
Cotton picker with fluffer. J. D. Rust. 2,657,514, Nov. 3.
Coupling for tubular members. L. Miller. 2,657,944, Nov. 3.
Cover: *See*—
Container cover.
Cover for telescopic sights. T. W. Lloyd. 2,657,465, Nov. 3.
Cover operated display box. M. Goldshine. 2,657,793, Nov. 3.
Covering for tie-rod ends, Safety. F. R. Britt. 2,657,945, Nov. 3.
Crankshaft rear bearing seal. F. McGowen. 2,657,675, Nov. 3.
Credit unit. R. A. McCallum. 2,658,171, Nov. 3.
Crystallization of chlorotetracycline. E. R. Harms. 2,658,077, Nov. 3.
Cultivator shield. F. E. Knuth. 2,657,622, Nov. 3.
Culvert having laminated wall sections, Wood. C. T. Jensen. 2,657,713, Nov. 3.
Curler, Hair. M. Pavlot. 2,657,693, Nov. 3.
Curling device, Hair. R. E. Reed, J. H. Brant, and R. J. Olson. 2,657,694, Nov. 3.
Cylinder with compensating valve, Master. W. J. Oakley. 2,657,537, Nov. 3.
Damping unit for meter disks. H. B. Holmes and R. A. Road. 2,658,181, Nov. 3.
Deburring and chamfering tool. G. H. Pickering and A. J. Kuffner. 2,657,597, Nov. 3.
Decoding system, Binary. A. Abate. 2,658,139, Nov. 3.
Dehydration by freezing. E. P. Wenzelberger. 2,657,555, Nov. 3.
Dehydration, Method and apparatus for. H. A. Toulmin, Jr. 2,657,551, Nov. 3.
Dehydrogenation of a gem alkyl arylcyclohexane. V. N. Ipatieff and H. Pines. 2,658,089, Nov. 3.
Demonstrational and educational model, Edentulous and partially edentulous. W. Arrow. 2,657,462, Nov. 3.
Detachable light. A. L. Woolfolk. 2,658,135, Nov. 3.
Detaching means for abrasive disks. A. Turton and H. E. Hickman. 2,657,509, Nov. 3.

Developing apparatus. W. Eisbein. 2,657,618, Nov. 3.
Device for driving fasteners. R. L. Siering and H. S. Ford. 2,657,383, Nov. 3.
Device for inserting pliable grommets. S. Mueller. 2,657,818, Nov. 3.
Device for producing signals at predetermined intervals. M. E. Snoddy. 2,657,748, Nov. 3.
Device for reducing excess lubricant on relatively reciprocating bodies. A. Peters. 2,657,762, Nov. 3.
Dialing system with direct time measuring apparatus, Pulse position. W. A. Malthaner, N. D. Newby, and H. E. Vaughan. 2,658,188, Nov. 3.
Differential actuator. F. J. Rouan, W. J. Hanson, and A. G. Russell. 2,657,593, Nov. 3.
Digger having means for separating vines and stones from potatoes, Potato. A. E. Young. 2,657,798, Nov. 3.
Digging teeth for loading machine digging blades. R. Q. Armington and W. F. Klun. 2,657,480, Nov. 3.
Dimethoxydecadienes, Preparing. R. S. Urban. 2,658,082, Nov. 3.
Dishwashing apparatus and cabinet structure. F. A. Walker. 2,657,697, Nov. 3.
Dishwashing apparatus provided with centrifugal separation sump. F. A. Walker. 2,657,695, Nov. 3.
Disk brake. R. K. Chamberlain. 2,657,772, Nov. 3.
Disk harrow, Flexible. J. F. Rude and A. V. Burch. 2,657,511, Nov. 3.
Dispenser: *See*—
Liquid dispenser. Tape dispenser.
Dispenser. A. Heinz and J. Hoegermeyer. 2,657,836, Nov. 3.
Dispenser closure top with pouring spout and slidable closure. R. Bernhardt. 2,657,837, Nov. 3.
Dispensing apparatus, Beverage. W. Von Stoeser. 2,657,628, Nov. 3.
Dispensing system, Article. T. S. Skillman. 2,657,858, Nov. 3.
Distillation method and apparatus. W. Untermann, K. Sondermann, and A. Milbers. 2,658,029, Nov. 3.
Distributor head for grain tubes. R. A. Gerber. 2,657,782, Nov. 3.
Disulfoxides. W. A. Proell. 2,658,038, Nov. 3.
Doll eye, Transparent. H. W. Samolewitz. 2,657,500, Nov. 3.
Door protector and check. B. W. Wendt. 2,657,419, Nov. 3.
Dot comparator. P. F. Borth. 2,657,611, Nov. 3.
Double dog detent for two-motion switches. R. L. Huffman. 2,657,590, Nov. 3.
Double-shelf unit. W. Isler. 2,657,811, Nov. 3.
Dough working and shaping machine. H. W. Sawyer and L. Gelly. 2,657,648, Nov. 3.
Drain. P. D. Moyer. 2,657,821, Nov. 3.
Drawer slide for cabinets. H. C. Soehner. 2,657,968, Nov. 3.
Drawing mechanism for spinning and roving frames. P. B. Tarbox and G. C. Anderson. 2,657,434, Nov. 3.
Dress form. D. P. Wiesner. 2,657,843, Nov. 3.
Drill: *See*—
Earth drill.
Drill pipe protector. J. E. Hall, Sr. 2,657,956, Nov. 3.
Drilling machine, Lens. J. A. de Armas. 2,657,596, Nov. 3.
Drive fastener support. L. J. Sklenar. 2,657,894, Nov. 3.
Drive mechanism for washing machines and the like. T. T. Woodson. 2,657,783, Nov. 3.
Drive with electromagnetic gear couplings, Speed controllable. P. Volk and H. Spiesecke. 2,657,587, Nov. 3.
Driving and supporting device for rotatable members. J. Chestley. 2,657,586, Nov. 3.
Dry gas meter. E. Butterworth and E. J. Hinchcliffe. 2,657,578, Nov. 3.
Drying machine, Clothes. C. E. Erickson. 2,657,475, Nov. 3.
Drying wound textile package. H. P. Fry, Jr. 2,657,472, Nov. 3.
Duplex speed regulator. G. E. Parker. 2,657,918, Nov. 3.
Earth drill. D. Richards. 2,657,906, Nov. 3.
Electric lamp holder. C. H. J. Anderson and J. H. F. van Werd. 2,658,118, Nov. 3.
Electrical apparatus. H. F. Clark. 2,658,175, Nov. 3.
Electrical cable, Making. J. J. Morrison. 2,658,014, Nov. 3.
Electrical connector. A. Greenbaum. 2,658,184, Nov. 3.
Electrical connector. G. W. Hatcher, Sr. 2,658,185, Nov. 3.
Electrical control system for burner and control device therefor. F. B. Aubert. 2,657,743, Nov. 3.
Electrical device, Speed responsive. J. M. Pestarini. 2,658,177, Nov. 3.
Electrical watthour meter. R. M. Leippe. 2,658,178, Nov. 3.
Electrode and skimmer for electric glass melting furnaces, Combined. G. C. Nonken. 2,658,094, Nov. 3.
Electrode holder. J. R. Barrow. 2,658,133, Nov. 3.
Electrodeposition of bright copper-tin alloy. C. L. Faust and W. G. Hespenheide. 2,658,032, Nov. 3.
Electrolytic method and apparatus for sterilizing water. D. E. Ferris. 2,658,033, Nov. 3.
Elevated storage tank. B. Blackburn. 2,657,819, Nov. 3.
Elevating and dumping apparatus. L. J. Collins. 2,657,815, Nov. 3.
Elevating means for row markers. B. H. Allen. 2,657,623, Nov. 3.
Elevator control system. C. Savage. 2,657,765, Nov. 3.
Emplacement form. W. L. Pellanda, Jr. 2,657,447, Nov. 3.
Energy-supply system. R. E. De Cola. 2,658,163, Nov. 3.
Engine: *See*—
Self-ignition internal-combustion engine.
Engine enclosing two thermodynamic cycles, Hot gas. C. O. Jonkers, J. W. L. Köhler, H. Rinia, and A. A. Liebe. 2,657,528, Nov. 3.
Engine fuel control, Hot-gas. H. L. Mulier and W. K. Bouwman. 2,657,527, Nov. 3.
Erecting and positioning marine structures. J. B. Templeton. 2,657,540, Nov. 3.
Etching and polishing aluminum. V. Terhune. 2,657,981, Nov. 3.
Ether-alcohols, Preparation of. W. S. Emerson and R. I. Longley, Jr. 2,658,081, Nov. 3.
Ethylene polymerization in the vapor phase. E. F. Peters and B. L. Evering. 2,658,059, Nov. 3.
Expansible and contractible reel holder. E. L. Taylor. 2,657,874, Nov. 3.
Extension leaf, Ironing board. E. and C. R. L. Crenshaw. 2,657,485, Nov. 3.
Extracting biologically active material. S. E. Moolten. 2,658,019, Nov. 3.
Extraction of thioglycolic acid from acidic aqueous media. B. C. Fischback and G. H. Harris. 2,658,074, Nov. 3.
Extrusion of filament-forming materials. E. J. Upton. 2,657,427–8, Nov. 3.
Fabric and making the same, Knitted. A. P. Saunders and H. H. Holmes. 2,657,561, Nov. 3.
Fabric segment of curved configuration, Inflatable. C. J. Ford. 2,657,716, Nov. 3.
Faggoting attachment for sewing machines. H. H. Russell. 2,657,656, Nov. 3.
Fan control for air-cooled engines, Cooling. C. B. Spase. 2,657,852, Nov. 3.
Fastener: *See*—
Slide fastener.
Fastening device. R. A. Hartman 2,657,443, Nov. 3.
Feed control mechanism. R. E. Price. 2,657,505, Nov. 3.
Feed device for internal-combustion engines, Supplementary. W. Raymor. 2,657,913, Nov. 3.
Feed mechanism for grinding machines. H. O. Cadman. 2,657,504, Nov. 3.
Feeder: *See*—
Automatic feeder.
Feeding furnaces. C. R. Kuzell. 2,657,990, Nov. 3.
Feeding of materials. E. J. Upton. 2,657,430, Nov. 3.
Fertilizer distributor. B. E. Pierce. 2,657,831, Nov. 3.
Fiberizing magnesium. T. E. Leontis and J. F. Pashak. 2,657,796, Nov. 3.
File separator. E. A. Dahl. 2,657,602, Nov. 3.
Film reel drive mechanism. J. L. Pettus. 2,657,871, Nov. 3.
Filter: *See*—
Oil filter.
Filter. J. M. Launder. 2,657,806, Nov. 3.
Fine aqueous dispersion of sulfur, Production of. L. O. Brown and T. J. McKee. 2,658,016, Nov. 3.
Finger control attachment wrench. H. B. Evans. 2,657,603, Nov. 3.
Fire control apparatus. H. C. Ford. 2,657,464, Nov. 3.
Fish display. E. B. Pease. 2,657,927, Nov. 3.
Fish lure. L. J. Eppinger. 2,657,495, Nov. 3.
Fish net, Folding. H. R. Ziebell. 2,657,491, Nov. 3.
Fishing rod. R. L. Coles. 2,657,495, Nov. 3.
Fishing rod mount and actuator. E. S. Skorr. 2,657,492, Nov. 3.
Flow distributor. C. O. Weisenbach. 2,657,702, Nov. 3.
Flow regulator. C. R. Huston. 2,657,712, Nov. 3.
Fluid control apparatus. J. H. McGinn. 2,657,707, Nov. 3.
Fluid control valve. E. E. Hupp. 2,657,701, Nov. 3.
Fluid shut-in valve. C. L. Huber and H. C. Skipper. 2,657,895, Nov. 3.
Fluid transmission. R. T. Burnett. 2,657,592, Nov. 3.
Fluorescent agents from diamino stilbene. W. E. Wallace and W. W. Williams. 2,658,064, Nov. 3.
Flux for hard soldering of tungsten. W. H. Hannahs. 2,658,013, Nov. 3.
Focusing charged particles, Method and apparatus for. J. G. Backus and B. Peters. 2,658,150, Nov. 3.
Food package, Soft plastic. L. Peters. 2,657,998, Nov. 3.
Foot and/or footwear protector. A. E. Winslow. 2,657,477, Nov. 3.
Foot-measuring machine. B. D. Spencer. 2,657,463, Nov. 3.
Forming head and forming ice-cream tarts. S. J. Daanen and T. H. Lutsey. 2,657,649, Nov. 3.
Forming multicolor coating composition. M. Schwefsky. 2,658,002, Nov. 3.
Freezing apparatus. E. P. Wenzelberger. 2,657,549, Nov. 3.
Frothing agents for the flotation of ores. R. H. Hall. 2,657,800, Nov. 3.
Fruit processing machine. G. A. Dunn. 2,657,725, Nov. 3.
Fuel cell. J. A. Merrill. 2,657,884, Nov. 3.
Fuel oils. C. H. Braithwaite, Jr., G. A. Martin, and R. E. Sutton. 2,657,984, Nov. 3.
Fuel unit, Two-stage. W. R. Kiefer. 2,657,632, Nov. 3.
Full-floating brake. F. W. Hunyady. 2,657,768, Nov. 3.

Furnace monkey, Blast. J. B. Casey and G. A. Smitherman. 2,657,922, Nov. 3.
Furniture top to frame connections. W. J. Bargen. 2,657,965, Nov. 3.
Fuse, Cable safety. E. C. Whitfield. 2,658,125, Nov. 3.
Fuse, Hydraulic break. R. L. Stevenson. 2,657,706, Nov. 3.
Game, Target baseball. R. Burrell. 2,657,931, Nov. 3.
Garment. F. J. Gross. 2,657,389, Nov. 3.
Garment, Baby. L. A. Kay. 2,657,689, Nov. 3.
Garment display form. I. P. Smith. 2,657,842, Nov. 3.
Garment for retaining infants against displacement from a support. I. Tucker. 2,657,688, Nov. 3.
Garment, Infant's. G. L. Ketcham. 2,657,387, Nov. 3.
Garment, Reversible front. M. C. O'Brien. 2,657,388, Nov. 3.
Garment, Woman's. N. Malden. 2,657,690, Nov. 3.
Gas tube noise generator. C. J. Gallagher and S. Ruthberg. 2,658,149, Nov. 3.
Gasifying coal. B. J. Mayland. 2,657,501, Nov. 3.
Gate for parking lots, Road barrier. B. M. Sweetser. 2,657,486, Nov. 3.
Gauge: *See*—
Inspection gauge.
Gear shifting mechanism, Automatic. S. L. Wiig. 2,657,779, Nov. 3.
Gear tooth checking instrument, Portable. F. A. Brown. 2,657,469, Nov. 3.
Gelatin composition. L. R. Ferguson. 2,657,996, Nov. 3.
Generator: *See*—
Gas tube noise generator.
Generator coupling circuit. J. E. Evans and F. F. Rieke. 2,658,148, Nov. 3.
Glass, Manufacture of. P. H. La Burthe. 2,658,093, Nov. 3.
Glove, Cosmetic. C. L. Milton, Jr., and C. A. Nielson. 2,657,394, Nov. 3.
Glue composition, Liquid. H. H. Young and F. L. De Beukelaer. 2,658,001, Nov. 3.
Gravity meter. C. H. Fay and R. R. Goodell. 2,657,581, Nov. 3.
Grille, Screen door. L. A. Macklanburg. 2,657,746, Nov. 3.
Grinder control mechanism and control means therefor, Garbage. J. Drew. 2,657,397, Nov. 3.
Guiding device for sewing machines. L. Margand. 2,657,655, Nov. 3.
Gun hone. C. E. Seymour. 2,657,507, Nov. 3.
HV type key interlock. A. S. Caswell. 2,658,170, Nov. 3.
Halogenating the π-position of camphor and its α-halo-derivatives. M. Nishimitsu, M. Nishikawa, and H. Hagihara. 2,658,079, Nov. 3.
Hand actuated dispenser pump. "D" F. Bacheller. 2,657,834, Nov. 3.
Hand covering. H. D. Crandon. 2,657,391, Nov. 3.
Hanger: *See*—
Picture hanger.
Hanger construction for anchor tiles of refractory arches. R. H. Forsyth. 2,657,651, Nov. 3.
Hanger with magnetic action and the like, Garment. B. Weiss. 2,657,844, Nov. 3.
Harvester and ensilage cutter, Corn. P. Martin. 2,657,513, Nov. 3.
Hatchcover with inflatable gasket, Insulating. H. H. Robson. 2,657,661, Nov. 3.
Heater for stock tanks. D. Fransen. 2,657,682, Nov. 3.
Heating control system, Combustion. F. B. Aubert. 2,657,742, Nov. 3.
Heel construction for flimsy foot coverings. W. J. Paul. 2,657,478, Nov. 3.
Helicopter, Parachute-equipped. C. E. Bannister. 2,657,880, Nov. 3.
Hemostatic agent, Preparing a. A. Schoch. 2,658,020, Nov. 3.
High polymers of alpha-methyl styrene, Making. T. E. Werkema. 2,658,058, Nov. 3.
High-speed commutator. D. E. St. John. 2,658,142, Nov. 3.
High-temperature treatment of compounds. R. E. Stanton. 2,657,917, Nov. 3.
Hinge, Adjustable. R. G. Polson. 2,657,421, Nov. 3.
Holder: *See*—
Combination drinking glass and dish holder.
Electric lamp holder.
Electrode holder.
Expansible and contractible reel holder.
Invertible and adjustable picture holder.
Telephone handset holder.
Toilet tissue holder.
Holder and vacuum-tight seal for envelopes, Combination. H. H. Schmalz. 2,657,846, Nov. 3.
Holder for and in combination with portable electric spotlights and cords. J. and E. Morgenstern. 2,658,136, Nov. 3.
Holder for bed clothing. S. E. Hart. 2,657,441, Nov. 3.
Holding relay. W. Von Stoesser. 2,658,123, Nov. 3.
Hook: *See*—
Safety snap hook.
Horizontal separator. C. O. Glasgow. 2,657,760, Nov. 3.
Hub dynamo, Low-power. P. H. J. Brouwer. 2,658,157, Nov. 3.
Hydraulic control system. E. H. Schanzlin and C. J. Oster. 2,657,533, Nov. 3.
Hydraulic power unit. J. L. Scruggs. 2,657,674, Nov. 3.
Hydraulic pump. L. S. Greenland, and T. Edwards. 2,657,634, Nov. 3.
Hydraulic pump. B. F. Schmidt. 2,657,636, Nov. 3.
Hydraulic remote control system, including transmitter and receiver stations and means for automatically resynchronizing the receiver. R. L. Levy. 2,657,535, Nov. 3.
Hydraulic wedge. C. B. Evenson. 2,657,904, Nov. 3.
Hydrocarbon compositions, Saturated. H. G. Schutze and H. E. Cler. 2,657,985, Nov. 3.
Hydrocarbon oil containing S-(sulfurized terpene hydrocarbon) dithiophosphoric acid triesters. E. O. Hook and L. C. Beegle. 2,657,900, Nov. 3.
Hydrogen peroxide, Production of. J. W. Sprauer. 2,657,980, Nov. 3.
Ignition system. M. G. Bales. 2,658,155, Nov. 3.
Image-reproducing device. J. F. De Ano. 2,658,161, Nov. 3.
Image-reproducing device. R. S. Peterman. 2,658,160, Nov. 3.
Implement-seeder combination. W. T. Graham. 2,657,652, Nov. 3.
Impression material. E. H. Lochridge. 2,657,971, Nov. 3.
Improving the performance of magnetic sound recording and reproducing heads, Means for. L. C. Holmes. 2,658,113, Nov. 3.
Incorporating polychloroprene in paper. R. H. Walsh and W. W. Pockman. 2,657,991, Nov. 3.
Indicator: *See*—
Signal level indicator.
Wear indicator.
Indicator of the clock type, Traffic control. S. Haskin. 2,658,187, Nov. 3.
Insecticidal compositions containing 1,2-dichloro-4(α,β-dichloroethyl)-cyclohexane and using the same. E. G. Marhofer. 2,658,017, Nov. 3.
Insert for brief bags, Compartmented. S. B. Silverman. 2,657,726, Nov. 3.
Insert for drilling strings. J. F. Cochran, J. I. Middleton, and N. D. Jaques. 2,657,907, Nov. 3.
Inspection gauge. A. E. Lyons. 2,657,468, Nov. 3.
Instrument useful in anesthetizing by intratracheal insufflation. N. Nordstrom, Jr. 2,657,691, Nov. 3.
Insulation stripping device. L. F. Bentley. 2,657,601, Nov. 3.
Internal pipe wrench. E. C. Howell. 2,657,605, Nov. 3.
Invertible and adjustable picture holder. D. M. Knox. 2,657,488, Nov. 3.
Ion exchange resins from formaldehyde and the reaction product of a chloromethylated polynuclear hydrocarbon and a basic tertiary amine. C. E. Johnson. 2,658,042, Nov. 3.
Iron oxide and titanium tetrachloride from titaniferous iron ores, Producing. L. W. Rowe and R. P. Smith. 2,657,976, Nov. 3.
Ironing machine, Laundry. H. C. A. Zwaard. 2,657,483, Nov. 3.
Isolating tube. R. E. Bletcher. 2,657,703, Nov. 3.
Jar sealing. A. Heitmann. 2,657,847, Nov. 3.
Jet propulsion and boundary layer control means. A. Douglas. 2,657,881, Nov. 3.
Joining copper members. L. Pessel. 2,657,458, Nov. 3.
Joint: *See*—
Rail joint.
Joint connection. M. Levine. 2,657,439, Nov. 3.
Joint for tire inflation, Lubricated rotary. G. Gozzoli. 2,657,731, Nov. 3.
Journal bearing lubricator. F. P. Tagliaferri and F. T. Gier. 2,657,958, Nov. 3.
Journal box lubricator. W. J. Sockell. 2,657,959, Nov. 3.
Key container. D. Hill. 2,657,569, Nov. 3.
Key hanger support for key cases. C. E. Morrell. 2,657,568, Nov. 3.
Knurling machine. R. R. Tector. 2,657,598, Nov. 3.
Labeling machine, Bottle. A. C. Everett. 2,657,816, Nov. 3.
Ladder, Swingable vehicle attached. F. M. Davidson. 2,657,940, Nov. 3.
Last slip for removing shoes from lasts. J. C. Eldridge and F. A. Flaherty. 2,658,004, Nov. 3.
Latch bolt stop, Night. A. Erkkila. 2,657,946, Nov. 3.
Leg structure, Folding. M. Fox. 2,657,963, Nov. 3.
Light: *See*—
Detachable light.
Light system, Votive. L. A. Matson. 2,658,168, Nov. 3.
Lighter, Mechanical. S. Bachrach. 2,657,562, Nov. 3.
Lighting fixture having angularly upwardly directed spot lamps. D. Solomon. 2,658,137, Nov. 3.
Lingerie accessory. D. B. Jackson. 2,657,392, Nov. 3.
Lipbrush and housing therefor. H. Becker. 2,657,411, Nov. 3.
Liquid discharge device for washing machines. A. L. Briggs. 2,657,830, Nov. 3.
Liquid dispenser. R. R. Hull. 2,657,554, Nov. 3.
Liquid fuel pump. F. M. Evans. 2,657,631, Nov. 3.
Liquid level indicating device. F. R. Milson. 2,657,579, Nov. 3.
Liquid oxygen converter apparatus. W. A. Wildhack. 2,657,542, Nov. 3.
Liquid-vapor phase differential fire and overheat detector and control and system. E. J. Poitras. 2,658,190, Nov. 3.
Lock: *See*—
Oar lock.
Lock attachment, Luminous. B. Heinz. 2,658,151, Nov. 3.

Lock for pressing machines, Lever. J. M. Bernstein and C. E. Robertson, Jr. 2,657,840, Nov. 3.
Locking mechanism for digging teeth, Removable point. E. L. Launder and C. C. Hosmer. 2,657,482, Nov. 3.
Log classifying machine. K. L. B. Johansson. 2,657,785, Nov. 3.
Loom: *See*—
Narrow ware loom.
Needle loom.
Loop-taker for sewing machines. R. E. Johnson. 2,657,658, Nov. 3.
Loud-speaker. P. Varnet. 2,657,758, Nov. 3.
Lubricant distributor and economizer. C. K. Sharp. 2,657,764, Nov. 3.
Lubricating device for sewing machines. A. N. Hale. 2,657,659, Nov. 3.
Lubricating greases, Manufacture of. E. Orno-Ornfeldt. 2,658,037, Nov. 3.
Lubricator: *See*—
Journal bearing lubricator.
Journal box lubricator.
Lubricator pump. L. C. Rotter and V. G. Klein. 2,657,763, Nov. 3.
Machine for making Hamburg steak patties. F. S. Elsaesser. 2,657,423, Nov. 3.
Machine for splitting concrete blocks, building stones, and the like. C. Gatzke. 2,657,681, Nov. 3.
Machine tool transmission and control mechanism. J. B. Armitage and J. N. Flannery. 2,657,616, Nov. 3.
Magazine floor plate release mechanism. L. F. Robertson, Jr. 2,657,489, Nov. 3.
Magnetic fishing tool. H. W. and J. R. Ballew. 2,657,752, Nov. 3.
Maintaining temperature and humidity constant, Method and apparatus for. T. Eichmann. 2,657,543, Nov. 3.
Making glass, Process and apparatus for. P. Arbeit, R. Dubois, and R. E. Lambert. 2,658,095, Nov. 3.
Making joints in wound cores. C. W. Moody. 2,657,456, Nov. 3.
Manganous ferrous phosphate composition. W. H. Woodstock. 2,657,992, Nov. 3.
Manhole cover and internal support therefor, Pressure drum. F. H. Skinner. 2,657,823, Nov. 3.
Manufacture and use of alumina-platinum catalysts. V. Haensel and L. Schmerling. 2,658,028, Nov. 3.
Manure spreader drive mechanism. L. B. Neighbour. 2,657,583, Nov. 3.
Map viewer, Route. A. Sprung. 2,657,487, Nov. 3.
Marionette construction. H. H. Rollins. 2,657,499, Nov. 3.
Mass polymerization with mixture of 4,4-dihydroxy benzoyl peroxide and adipoyl peroxide. H. F. Park. 2,658,057, Nov. 3.
Massager, Mechanical body. L. E. Holland. 2,657,685, Nov. 3.
Massaging device, Prostate gland. C. F. Bonham. 2,657,687, Nov. 3.
Material for constructing concrete walls. L. Faye. 2,657,448, Nov. 3.
Material separator. R. R. Reed. 2,657,802, Nov. 3.
Means and method of feeding to impact crushers. H. J. Woock. 2,657,864, Nov. 3.
Measuring device, Viscosity. J. D. Fann. 2,657,572, Nov. 2.
Measuring instrument, Electrical. E. M. Eadie, Jr. 2,658,179, Nov. 3.
Mechanism for bodily rotating sliver cans in fixed orientation. J. S. Dudley and C. D. Brandt. 2,657,435, Nov. 3.
Mechanism for handling and elevating discrete material. W. H. Bullwinkle. 2,657,813, Nov. 3.
Mechanism for producing gyratory motion. W. C. Conkling. 2,657,582, Nov. 3.
Mercury relay. G. L. Weimer. 2,658,124, Nov. 3.
Mess kit. A. H. Quigley. 2,657,820, Nov. 3.
Metal production and continuous gas plating, Continuous. H. A. Toulmin, Jr. 2,657,457, Nov. 3.
Meter: *See*—
Dry gas meter.
Electrical watt-hour meter.
Gravity meter.
Microporous carbon and graphite articles, including impregnated battery electrodes and making the same. L. P. Basset. 2,658,099, Nov. 3.
Milk can container. C. C. Crippen. 2,657,828, Nov. 3.
Mineral oil additive. R. H. Jones. 2,658,062, Nov. 3.
Mining machine, Reversible longwall. L. E. Simmons. 2,657,915, Nov. 3.
Mixture of polychloroprene, vinyl chloride-acrylonitrile copolymer, and butadiene-acrylonitrile copolymer. R. J. Signer and K. F. Beal. 2,658,051, Nov. 3.
Mixture of polychloroprene, vinyl chloride polymer, and butadiene-acrylonitrile copolymer. R. J. Signer and K. F. Beal. 2,658,050, Nov. 3.
Mixture of polychloroprene, vinyl chloride-vinylidene chloride copolymer, and butadiene-acrylonitrile copolymer. R. J. Signer and K. F. Beal. 2,658,053, Nov. 3.
Mixture of polyvinylidene chloride, vinyl chloride polymer, and butadiene-acrylonitrile copolymer. R. J. Signer and K. F. Beal. 2,658,052, Nov. 3.
Mold binders, Sand. R. R. Cook and A. C. Hatch. 2,657,974, Nov. 3.
Molded commutator. C. A. Herbst. 2,658,159, Nov. 3.
Molded decorative steering wheel. F. W. Sampson. 2,657,589, Nov. 3.
Molding machine, Injection. J. Faust. 2,657,429, Nov. 3.
Monobenzyl ether of diethylstilbestrol. F. C. Schmelkes. 2,658,080, Nov. 3.
Motor control, Fluid. E. E. Littlefield. 2,657,673, Nov. 3.
Motor drive system for motion-picture equipment. J. L. Pettus. 2,657,870, Nov. 3.
Motor for highway crossing signals, Oscillating. A. F. Meuler. 2,658,156, Nov. 3.
Motor system with series-parallel switching relay, Traction. T. J. Warrick. 2,658,174, Nov. 3.
Mounting: *See*—
Vacuum cleaner brush Wheel unit mounting.
mounting.
Mounting clip. W. A. Bedford, Jr. 2,657,442, Nov. 3.
Mounting device for door closers. K. C. Hoernel. 2,657,892, Nov. 3.
Mounting for chippers, Knife blade. C. A. Johnson. 2,657,723, Nov. 3.
Multicathode glow discharge device. W. A. Depp. 2,658,166, Nov. 3.
Multiple electric connector. A. and B. A. Jackson. 2,658,182, Nov. 3.
Multiple pneumatic protection pad. C. A. Cushman and W. Harrison, Jr. 2,657,385, Nov. 3.
N-dialkylaminoalkyl derivatives of α,β-diarylalkanoamides and their salts. C. P. Krimmel. 2,658,076, Nov. 3.
Nail driving device. W. A. Lueneburg. 2,657,382, Nov. 3.
Narrow ware loom. E. R. Holmes. 2,657,715, Nov. 3.
Neck duster, Barbers' and beauticians'. C. E. Stroup. 2,657,410, Nov. 3.
Needle loom. M. Ballber. 2,657,714, Nov. 3.
Neutralization of acid constituents in petroleum. C. O. Hoover. 2,658,027, Nov. 3.
Neutralization of radio-frequency power supplies. R. C. Wilcox. 2,658,176, Nov. 3.
Nozzle, Asymmetric adjustable supersonic. H. J. Allen. 2,657,575, Nov. 3.
Nozzle, Spray. H. Hopper. 2,657,953, Nov. 3.
Number converter. R. A. Edwards. 2,657,856, Nov. 3.
Oar lock. C. O. Goserud. 2,657,401, Nov. 3.
Oil filter. J. M. Launder. 2,657,807, Nov. 3.
Oil treating apparatus having settling tank heating means. E. R. Williams. 2,658,025, Nov. 3.
Olefins by dechlorination of alkyl chlorides, Production of. N. Geiser and H. Kolling. 2,658,090, Nov. 3.
1[2-(alkylsulfonyl)ethyl] pyridinium halides and their use as herbicides. J. K. Fincke. 2,657,988, Nov. 3.
Opening and cleaning poultry gizzards. G. R. Biddinger and C. H. Koonz. 2,657,424, Nov. 3.
Operating mechanism for motor vehicles. F. K. H. Nallinger. 2,657,778, Nov. 3.
Orientable condensation polymers of hydroxypivalic acid and preparing them. T. Alderson. 2,658,055, Nov. 3.
Overdraft mechanism for plural totalizers, True negative. M. Winkler. 2,657,855, Nov. 3.
Overhead switch. J. H. Swanback and N. J. Jensen. 2,657,643, Nov. 3.
Oxygenation of steroids. G. M. Shull, D. A. Kita, and J. W. Davisson. 2,658,023, Nov. 3.
Packaging apparatus, Container. R. A. Smith. 2,657,845, Nov. 3.
Packer of the sleeve type, Open hole. T. M. Johnston. 2,657,751, Nov. 3.
Pad: *See*—
Multiple pneumatic protection pad.
Pan, Freezing. A. J. Frei, Sr. 2,657,548, Nov. 3.
Parachute, Shock reducing. J. M. Brady. 2,657,885, Nov. 3.
Partition, Sliding. J. T. and W. Fairhurst. 2,657,436, Nov. 3.
Pencil. L. L. Colburn. 2,657,670, Nov. 3.
Pencil box with built-in sharpener. A. A. Roger. 2,657,669, Nov. 3.
Pencil, Controlled lead. F. A. Wade and W. Metzner. 2,657,671, Nov. 3.
Pencil sharpener, Automatic motor-driven. W. E. Angell. 2,657,672, Nov. 3.
Pentachlorophenyl ester of trichloroacetic acid. F. L. Beman. 2,658,071, Nov. 3.
Perambulator and like vehicle having a toggle-operated brake mechanism. B. Simpson. 2,657,937, Nov. 3.
Perforation production tester. R. O. Boykin, Jr. 2,657,576, Nov. 3.
Phase contrast observation. M. M. François. 2,657,614, Nov. 3.
Phonograph pickup. H. J. Smits. 2,658,115, Nov. 3.
Picture hanger. H. L. White. 2,657,887, Nov. 3.
Pipe boom supporting apparatus. J. M. Lewis. 2,657,667, Nov. 3.
Pipeline cleaning and polishing device. R. F. Hadley, J. G. Daugherty, and F. A. Young. 2,657,506, Nov. 3.
Piston. C. H. Latimer-Needham. 2,657,960, Nov. 3.
Piston for internal-combustion engines. D. von Lassberg. 2,657,961, Nov. 3.
Piston ring. A. S. Robinson. 2,657,962, Nov. 3.
Pitch mastic for flooring. C. Buist. 2,658,005, Nov. 3.
Pitch propeller, Variable. M. E. Cushman. 2,657,755, Nov. 3.
Plastic articles, Making. C. E. Slaughter. 2,657,431, Nov. 3.
Plastic compositions and articles produced therefrom. R. J. Signer. 2,658,048, Nov. 3.
Plasticizing rubber. M. F. Torrence. 2,658,091, Nov. 3.

Pocketbook, Music box. B. Katz and D. M. Weisglass. 2,657,607, Nov. 3.
Polymeric N-methacrylyl morpholine. G. E. Ham. 2,658,056, Nov. 3.
Polyvinyl pyrrolidone gels and producing the same. C. E. Schildknecht. 2,658,045, Nov. 3.
Porous compositions utilizing N-carboxyamino-acid anhydride. E. W. Gluesenkamp. 2,658,043, Nov. 3.
Portable saw-filing clamp. B. Frazier. 2,657,594, Nov. 3.
Positive plates for lead storage batteries, Manufacture of. J. A. Orsino. 2,658,097, Nov. 3.
Pouring spout. E. E. and A. Kramer. 2,657,838, Nov. 3.
Power machine, Rotary. G. E. Mallinckrodt. 2,657,676, Nov. 3.
Power supply for transformerless receivers. W. R. Koch. 2,658,140, Nov. 3.
Power supply, High impedance. D. E. Sunstein and A. C. Munster. 2,658,117, Nov. 3.
Power system. C. A. Brancke. 2,658,152, Nov. 3.
Preparing hard butter from hydrogenated coconut oil and similar oils. J. E. Blum. 2,657,995, Nov. 3.
Preparing soup. A. C. Rauch. 2,657,999, Nov. 3.
Presetting device for boring tools. E. A. Allen and F. P. Healy. 2,657,470, Nov. 3.
Press: *See*—
Shoe press.
Pressure responsive switch. D. F. Murphy. 2,658,120, Nov. 3.
Pressure ripper. L. O. McMahon. 2,657,914, Nov. 3.
Pressure switch. R. R. Stein. 2,658,122, Nov. 3.
Preventing oil creepage, Means for. E. R. Booser and D. F. Wilcock. 2,657,943, Nov. 3.
Preventing the physical disintegration of ammonium nitrate by temperature fluctuations. L. A. Stengel and J. W. Brodhacker. 2,657,977, Nov. 3.
Prime mover starting and shutdown system. C. A. Brancke. 2,658,153, Nov. 3.
Prime mover starting system. C. A. Brancke and T. J. Warrick. 2,658,154, Nov. 3.
Priming device, Reciprocating piston pressure. W. P. Roberg. 2,657,639, Nov. 3.
Printing apparatus, Photographic. E. J. Maker and J. L. Gibson. 2,657,613, Nov. 3.
Prismatic directional and object locating system. W. P. Mason. 2,658,186, Nov. 3.
Processing of filamentary tow, Continuous. H. B. Merriman. 2,657,433, Nov. 3.
Prodigiosin, Production of. R. L. Harned. 2,658,024, Nov. 3.
Producing mixtures of coke and mineral materials, Method and apparatus for. C. J. McFarlin. 2,658,039, Nov. 3.
Projectile. L. V. S. Blacker. 2,657,630, Nov. 3.
Propeller, Hollow type aeronautical. C. B. Conwell. 2,657,754, Nov. 3.
Protector: *See*—
Drill pipe protector.
Foot and/or footwear protector.
Switch point protector.
Pulley. W. A. Williams. 2,657,584, Nov. 3.
Pump: *See*—
Hand actuated dispenser pump.
Hydraulic pump.
Liquid fuel pump.
Lubricator pump.
Rotary pump.
Sirup pump.
Pump. P. Arant. 2,657,640, Nov. 3.
Pump and control system, Fuel. T. R. Thogen. 2,657,635, Nov. 3.
Pump bearing seal for fire extinguishers. C. K. Huthsing. 2,657,950, Nov. 3.
Pump construction. J. G. Baker, L. C. Tullis, and L. T. Watry. 2,657,633, Nov. 3.
Pumping apparatus. K. R. Lung. 2,657,641, Nov. 3.
Pumping volatile liquids, Method and apparatus for. C. J. Schilling. 2,657,541, Nov. 3.
Purification of para-aminosalicylic acid and its alkali metal salts. M. A. Terpstra. 2,658,073, Nov. 3.
Push rod housing structure. R. J. Powell. 2,657,679, Nov. 3.
Quenching apparatus. J. W. Garrett. 2,657,698, Nov. 3.
Rack: *See*—
Secondary rack.
Radar system, Moving target indicating. R. A. McConnell. 2,658,195, Nov. 3.
Radio receiver. R. E. Samuelson. 2,658,138, Nov. 3.
Rail joint. A. L. Barrett. 2,657,863, Nov. 3.
Rake, Rotary wheel side delivery. G. B. Hill. 2,657,519, Nov. 3.
Rake, Side delivery. G. B. Hill and D. L. King. 2,657,518, Nov. 3.
Rake spring-tooth, Side delivery. M. J. Happe. 2,657,521, Nov. 3.
Ratchet wrench. T. O. Rueb. 2,657,604, Nov. 3.
Razor blade. M. J. Cerino and E. F. Kingsley. 2,657,460, Nov. 3.
Recorder, Portable. S. S. Haynes. 2,657,969, Nov. 3.
Recording-reproducing device, Magnetic. F. G. Buhrendorf. 2,658,114, Nov. 3.
Recovering metallic oxides. O. Saladin, W. Schornstein, and W. Frey. 2,657,979, Nov. 3.
Recovering sulfuric acid from mixtures thereof with pyridine monocarboxylic acid bisulfates. R. W. Dornte. 2,658,030, Nov. 3.
Recovery of nitroform from a reaction mixture containing nitric acid and nitroform. G. A. Wetterholm and E. L. Nilsson. 2,658,084, Nov. 3.
Reel: *See*—
Clothesline reel.
Reeling rods. A. W. Strachan. 2,658,012, Nov. 3.
Refrigerated display case. V. C. Knight. 2,657,545, Nov. 3.
Refrigerating apparatus. A. Allson and R. Atherton. 2,657,550, Nov. 3.
Refrigeration controlling valve. E. J. Dillman. 2,657,861, Nov. 3.
Refrigerator, Hot gas engine. C. O. Jonkers and J. W. L. Köhler. 2,657,552, Nov. 3.
Register, Cash. M. Demeulenaere. 2,657,854, Nov. 3.
Register, Dual wall. L. L. Smith and J. J. Gennari. 2,657,625, Nov. 3.
Registering device, Speed. E. J. Dowden. 2,657,749, Nov. 3.
Regulator: *See*—
Duplex speed regulator.
Flow regulator.
Solenoid-operated window regulator.
Regulator for compressors, Automatic. J. A. Borel. 2,657,850, Nov. 3.
Remote-control system for direct current welding. C. A. Welch. 2,658,132, Nov. 3.
Remotely controllable crankcase drain valve. A. A. Gerhard and W. A. Klemme. 2,657,705, Nov. 3.
Rib applying machine. A. R. Ridderstrom. 2,657,405, Nov. 3.
Rim structure for flat tableware. R. G. Cowan. 2,657,558, Nov. 3.
Ring: *See*—
Air control ring.
Piston ring.
Road-rail wheel. C. A. Kerner. 2,657,947, Nov. 3.
Rod: *See*—
Fishing rod.
Roll of pressure-sensitive adhesive striping tape. C. J. Calabrese. 2,657,795, Nov. 3.
Roll type paper dispensing cabinet. L. A. and P. E. Dittman. 2,657,873, Nov. 3.
Rotary cutter bit. G. F. H. von Stroh. 2,657,916, Nov. 3.
Rotary pump. C. L. English. 2,657,638, Nov. 3.
Rotating trap portioning device for granular materials. A. G. Rose, J. A. Kay, and J. Page. 2,657,832, Nov. 3.
Rowel type pipe cleaning tool. R. A. J. Dawson. 2,657,409, Nov. 3.
Rubber processing. B. C. Barton. 2,658,092, Nov. 3.
Safety for firearms, Trigger. V. A. Browning. 2,657,490, Nov. 3.
Safety snap hook. T. R. Roberts. 2,657,446, Nov. 3.
Sanding device. J. H. Schubert. 2,657,508, Nov. 3.
Sash cord connector. M. Lipson. 2,657,422, Nov. 3.
Saw, Adjustable power-driven circular. H. S. Forsberg. 2,657,719, Nov. 3.
Saw with planer tooth. C. V. Wolfe. 2,657,720, Nov. 3.
Sawing machine for stone and hard plastic material. H. Evans. 2,657,680, Nov. 3.
Scalp and body stimulator. C. Brandenfels. 2,657,686, Nov. 3.
Scalp-treating device, Surge-producing. H. M. Avery. 2,657,684, Nov. 3.
Screw driver, Expanding bit. E. H. Shaff. 2,657,724, Nov. 3.
Screw feed and drive mechanism. E. H. Shaff. 2,657,721, Nov. 3.
Screw removing tool. C. R. Sumner. 2,657,602, Nov. 3.
Screw shank slotter. O. J. Poupitch. 2,657,402, Nov. 3.
Seal. A. F. Erickson. 2,657,825, Nov. 3.
Sealing strip. L. Sprarangen. 2,657,438, Nov. 3.
Sealing tool. H. F. Stoffel. 2,657,600, Nov. 3.
Seat: *See*—
Tackle box seat.
Seat mount, Flexible. S. W. Kanaval. 2,657,737, Nov. 3.
Seat structure, Spring. H. G. Daniels and E. C. Pickard. 2,657,740, Nov. 3.
Secondary rack. B. M. Smalley. 2,657,889, Nov. 3.
Securing and driving means for rotatable magazine-contained spool. F. H. Owens. 2,657,869, Nov. 3.
Sediment purger for tube ice machines, Automatic. H. V. Heuser. 2,657,547, Nov. 3.
Segregating fluids transported by a pipeline, Method of and apparatus for. G. C. Ray. 2,657,700, Nov. 3.
Selective hydrogenation of oxo-process aldehydes. D. E. Burney and W. J. Cerveny. 2,658,083, Nov. 3.
Self-driving device for transporting heat from a lower to a higher temperature level. C. O. Jonkers. 2,657,553, Nov. 3.
Self-ignition internal-combustion engine. F. G. Graves. 2,657,677, Nov. 3.
Self-interrupting clutch. J. H. Starr. 2,657,780, Nov. 3.
Separating apparatus for springs and the like. C. E. K. Fox. 2,657,812, Nov. 3.
Separating ethan from hydrocarbon mixtures. M. R. Cines. 2,657,761, Nov. 3.
Separation of metals in powder form from their salt solutions. O. Ruthner. 2,657,989, Nov. 3.
Separation of oxygenated compounds. J. H. van der Waals. 2,658,069, Nov. 3.

Separator: *See*—
File separator.
Horizontal separator.
Material separator.
Water separator.
Separator attachment for vacuum cleaners, Liquid. L. C. Smith. 2,657,416, Nov. 3.
Servo system. P. J. Jackson. 2,658,146, Nov. 3.
Sewage purification treatment. J. W. Hood. 2,658,034, Nov. 3.
Sewing machine. C. L. Knott. 2,657,653, Nov. 3.
Sewing machine. I. M. and H. S. Overman. 2,657,654, Nov. 3.
Sharpener, Fishhook. L. L. Gaines. 2,657,503, Nov. 3.
Shelving, Collapsible and expansible. P. Garrick. 2,657,810, Nov. 3.
Shift mechanism. B. F. Madsen. 2,658,105, Nov. 3.
Shipping container. P. F. Paul and L. O'Leary. 2,657,849, Nov. 3.
Shock absorber. E. F. Rossman. 2,657,770, Nov. 3.
Shoe press. F. C. Cholce. 2,657,406, Nov. 3.
Shovel and scoop attachment, Tractor mounted loading. R. C. Larsen. 2,657,481, Nov. 3.
Shower head. R. E. Bletcher and C. H. Bentley. 2,657,954, Nov. 3.
Shower head. O. Manning. 2,657,955, Nov. 3.
Signal for field telephone sets, Audible. W. Kalin and J. R. Power. 2,658,194, Nov. 3.
Signal for trackless trolley coaches, Electric. S. S. Stolp. 2,658,191, Nov. 3.
Signal level indicator. J. S. Harris. 2,658,167, Nov. 3.
Signaling system and device for aircraft operation. R. L. Holcombe. 2,657,476, Nov. 3.
Signaling system based on orthogonal functions. C. A. Lovell. 2,658,189, Nov. 3.
Signaling system, Electrical. A. Davison and R. Threadgold. 2,658,112, Nov. 3.
Signaling system having code and conference call, Party line selective. C. E. Lomax. 2,658,110, Nov. 3.
Single handle thermostatic mixing valve. E. G. Schmidt and C. R. Stone. 2,657,860, Nov. 3.
Single tissue cell culturing procedure. W. R. Earle and K. K. Sanford. 2,658,021, Nov. 3.
Sirup pump. M. E. Steczynski, W. W. Biederstadt, and E. V. Rupp. 2,657,833, Nov. 3.
Sleeping berth support. G. D. Pagon. 2,657,400, Nov. 3.
Slide fastener. A. Bashover. 2,657,444, Nov. 3.
Slider for slide fasteners. V. Weber. 2,657,445, Nov. 3.
Slip clutch. A. E. Young. 2,657,557, Nov. 3.
Slotting machine. C. F. Jones. 2,657,615, Nov. 3.
Smooth opening, automatic lubricated gate valve. A. S. Volpin. 2,657,898, Nov. 3.
Snow eliminator for self-service cases. V. W. Smith. 2,657,546, Nov. 3.
Socket with freely floating contacts, Hermetically sealed. C. W. Klostermann and C. J. Adams. 2,658,183, Nov. 3.
Softened copolymer of butadiene and styrene. T. M. Patrick, Jr. 2,658,046, Nov. 3.
Sole plate and hood construction for electric irons. C. H. Sparklin and P. J. More. 2,657,484, Nov. 3.
Solenoid-operated window regulator. L. S. Greenmun. 2,657,924, Nov. 3.
Solution for treatment of fibrous cellulosic materials. W. F. Sullivan and I. M. Panik. 2,658,000, Nov. 3.
Solvent applicator for imprinting machines. J. A. Weber. 2,657,665, Nov. 3.
Solvent extraction of oxytetracycline. E. W. Blase. 2,658,078, Nov. 3.
Sorting machine, Can. F. M. Johnson and L. J. Bulliet. 2,657,799, Nov. 3.
Sound deadening device for musical instruments. W. E. Strobach. 2,657,609, Nov. 3.
Spectacle case. B. Grosvenor. 2,657,791, Nov. 3.
Speedometer, Electric. W. McCandless. 2,657,919, Nov. 3.
Speed sensing device, Fluid pressure. H. E. Barrett, S. J. Hall, and W. C. Schaffer. 2,657,699, Nov. 3.
Spindle brake. J. A. Kooistra. 2,657,523, Nov. 3.
Spindle mounting for textile spinning or like machines. A. Westall. 2,657,524, Nov. 3.
Spindle roughening means, Cotton picking. J. D. Rust. 2,657,516, Nov. 3.
Spool. F. J. Bieber. 2,657,876, Nov. 3.
Sprayer, Towed. C. S. Morrison. 2,657,949, Nov. 3.
Spraying device. H. D. North, Jr. 2,657,951, Nov. 3.
Stabilized citrus oil and producing the same. I. I. Rusoff and J. L. Common. 2,657,997, Nov. 3.
Stabilized stains comprising dioxane. L. Rudick 2,657,970, Nov. 3.
Stabilizer for overrunning thermostatic controls. H. A. Carlson and J. T. W. Moseley. 2,657,862, Nov. 3.
Stand: *See*—
Container stand.
Steering system for aircraft, Nose wheel. H. P. Kuplec and E. G. Gravenhorst. 2,657,883, Nov. 3.
Stencil-moistening and stencil-blotting apparatus, Combined. H. P. Elliott. 2,657,663, Nov. 3.
Stock pusher. A. Stuebner. 2,657,933, Nov. 3.
Stop motion device for strand manipulating apparatus. R. E. Solliday and S. A. Steere. 2,657,451, Nov. 3.
Strainer, V-type. J. A. Palcer. 2,657,805, Nov. 3.
Strand insertion. D. D. Huyett. 2,657,454, Nov. 3.
Stripper for side delivery rakes, Rotary. D. S. Lock and F. D. Wilson. 2,657,520, Nov. 3.
Suction device, Pneumatic. E. W. Puckert. 2,657,893, Nov. 3.
Suction point, Dredge. R. Haigh. 2,657,479, Nov. 3.
Suit, Air ventilated. A. M. Klein and J. F. Hall, Jr. 2,657,396, Nov. 3.
Support: *See*—
Drive fastener support.
Sleeping berth support.
Supporting device. H. L. Ericson. 2,657,888, Nov. 3.
Sweep and guard mechanism for bowling pin setting machines. S. S. Auchincloss and H. W. Phillips. 2,657,929, Nov. 3.
Sweeper, Power propelled. F. J. Machovec. 2,657,408, Nov. 3.
Sweeper with pivotable brush support, Carpet. E. R. Smith. 2,657,407, Nov. 3.
Switch: *See*—
Overhead switch.
Pressure responsive switch.
Switch mechanism, Condition responsive electric. R. L. Gray and C. S. Grimshaw. 2,658,121, Nov. 3.
Switch point protector. J. Robinson. 2,657,886, Nov. 3.
Switching apparatus. K. W. Graybill and H. Sengebusch. 2,658,111, Nov. 3.
Switching control system. J. R. Neubauer. 2,658,172, Oct. 3.
Synchronizing system. T. R. Burnight and R. A. Emmett Jr. 2,658,196, Nov. 3.
Synergistic antioxidant composition. E. F. Hill and M. L. Welp. 2,657,982, Nov. 3.
Synergistic stabilizing compositions. E. F. Hill and M. L. Osip. 2,657,983, Nov. 3.
Synnematin and producing the same. R. Y. Gottshall, J. M. Roberts, and L. M. Portwood. 2,658,018, Nov. 3.
Synthetic rubber-carbon black mixtures, Preparation of. J. W. Adams. 2,658,049, Nov. 3.
Table: *See*—
Breakout table.
Table and the like. G. A. Watrous. 2,657,964, Nov. 3.
Table shrine. S. A. Brockway. 2,657,966, Nov. 3.
Tabular device for musical modulation. W. E. Carran, Jr. 2,657,610, Nov. 3.
Tacker, Hand. F. S. Boroughs. 2,657,384, Nov. 3.
Tackle box seat. E. S. Frost. 2,657,734, Nov. 3.
Tandem office for telephone systems, Crossbar. W. T. Haines and J. B. Newsom. 2,658,108, Nov. 3.
Tank: *See*—
Elevated storage tank.
Tank cap. F. N. Mariani. 2,657,824, Nov. 3.
Tape dispenser. T. R. Price and R. L. Brown. 2,657,926, Nov. 3.
Tape, Measuring. A. R. A. Beeber. 2,658,006, Nov. 3.
Telegraph system and apparatus, Facsimile printing. R. Hell. 2,658,106, Nov. 3.
Telephone answering and message recording device. J. J. Zimmermann. 2,658,107, Nov. 3.
Telephone handset holder. V. J. Skantze. 2,658,116, Nov. 3.
Telephone system, Automatic. F. Kessler. 2,658,109, Nov. 3.
Television apparatus. J. M. Sherman and E. W. Fisher. 2,658,103, Nov. 3.
Television shading signal and clamping circuit. H. R. Smith. 2,658,104, Nov. 3.
Terminal. K. E. Bondurant. 2,658,130, Nov. 3.
Terminal fitting, Spring. R. J. Carbary. 2,657,420, Nov. 3.
Tetrahydrofurfurylglycamines and producing same. J. B. Tindall and J. W. Fraza, Jr. 2,658,063, Nov. 3.
Thermometer, Multirange resistance. G. W. Schroeder. 2,657,580, Nov. 3.
Thermostatic mixing valve. A. Von Wangenheim. 2,657,859, Nov. 3.
Thread gauging and flaw detecting device. R. E. Solliday and S. A. Steere. 2,657,450, Nov. 3.
Thread tensioning attachment for fly tying vises. P. E. Allen. 2,657,877, Nov. 3.
Thread winding machine, particularly cop winding frame. S. Fürst. 2,657,867, Nov. 3.
3-(cyanomethyl) thianaphthene-1,1-dioxide. A. H. Schlesinger and D. T. Mowry. 2,658,068, Nov. 3.
Throttle control device for internal-combustion engines. S. M. Parker. 2,657,776, Nov. 3.
Throttle safety attachment. E. L. Haynie. 2,657,757, Nov. 3.
Ticket storage and issuing equipment. C. F. Webb. 2,657,750, Nov. 3.
Tie rod for concrete wall forms. B. Hillberg. 2,657,449, Nov. 3.
Tie rods for concrete wall forms, Manufacturing. B. Hillberg. 2,657,455, Nov. 3.
Tiller, Rotary. O. L. Meeks. 2,657,620, Nov. 3.
Timecard, Multiple. G. K. Pattison. 2,657,942, Nov. 3.
Time delay circuits. J. J. and J. J. Kurland. 2,658,141, Nov. 3.
Timer, Ignition. H. V. Elliott. 2,657,556, Nov. 3.
Tire air indicator apparatus. J. K. Jacobus. 2,658,119, Nov. 3.
Tire and making same, Pneumatic. G. R. Cuthbertson, H. M. Buckwalter, and A. C. Danielson. 2,657,730, Nov. 3.

Tire chain. A. Peterson. 2,657,727, Nov. 3.
Toilet flush valve. W. H. Walker. 2,657,395, Nov. 3.
Toilet tissue holder. E. H. Lindenmeyer. 2,657,872, Nov. 3.
Tool: *See*—
- Concrete block handling tool.
- Deburring and chamfering tool.
- Magnetic fishing tool.
- Rowel type pipe cleaning tool.
- Screw removing tool.
- Sealing tool.

Toolbox. T. Fuhse. 2,657,657, Nov. 3.
Tool for impinging liquid against inner walls of chambers. P. G. Carpenter. 2,657,753, Nov. 3.
Tool for making a circumferential bead or swage of predetermined size in metal pipes. W. R. Champion. 2,657,733, Nov. 3.
Tool of the screw machine type, Machine. J. H. Brodhun. 2,657,453, Nov. 3.
Tool with pressure fluid control feed, Pressure fluid operated. E. H. Shaff. 2,657,595, Nov. 3.
Toothbrush, Folding. H. E. Carlson. 2,657,412, Nov. 3.
Top, Spring actuated. F. H. Gustine. 2,657,498, Nov. 3.
Torch for cutting stainless steel. A. F. Chouinard and J. B. La Pota. 2,657,650, Nov. 3.
Toric fluid displacement chamber and packing therefor. E. C. Myers. 2,657,538, Nov. 3.
Toy bomber and bomb carrier and release mechanism. J. J. Reus. 2,657,930, Nov. 3.
Toy merry-go-round. L. L. McDonald. 2,657,928, Nov. 3.
Tractor, Garden. J. J. Kantz, Jr., and O. J. Lindell. 2,657,621, Nov. 3.
Tractor hydraulic system. C. H. Garmager. 2,657,534, Nov. 3.
Trailer, Boat. F. Linneman. 2,657,934, Nov. 3.
Trailer, Disk carrying. P. W. Browne and D. M. Piper. 2,657,938, Nov. 3.
Transfer coating. B. S. Cross and G. P. Netherly. 2,658,007, Nov. 3.
Transferring loops from dial needles to cylinder needles. E. St. Pierre. 2,657,560, Nov. 3.
Transit system, Passenger. H. A. Babcock. 2,657,642, Nov. 3.
Transmission operating mechanism. A. E. Wilson and H. D. Hukill. 2,657,588, Nov. 3.
Transmitter, Synchronized power. H. M. Geyer. 2,657,539, Nov. 3.
Transmitting mechanism, Power. H. F. Kaelin. 2,657,591, Nov. 3.
Traveling block. J. D. Bennett. 2,657,905, Nov. 3.
Tray, Dental impression. M. P. Sweeney. 2,657,461, Nov. 3.
Tray, Refrigerator. H. C. Mather. 2,657,544, Nov. 3.
Tray, Utility. E. V. Gilchrist. 2,657,967, Nov. 3.
Treating solids, Method and apparatus for. J. E. Montgomery and W. H. Cundiff. 2,657,473, Nov. 3.
Treating vehicle bodies and chassis. G. Williams and A. P. Fowler. 2,658,008, Nov. 3.
Treatment of drilling muds with barium starch. H. E. Bode. 2,658,035, Nov. 3.
Triazine fluorescent agents. W. E. Wallace and W. W. Williams. 2,658,065, Nov. 3.
Tube: *See*—
- Isolating tube.

Tube and sealing material therefor, Punctureproof. K. V. Hardman and A. J. Lang. 2,657,729, Nov. 3.
Tube closure openable by pressure of the contents, Collapsible. L. M. Walch. 2,657,829, Nov. 3.
Tube with cavity resonator, Magnetron. J. E. Evans, R. C. Fletcher, and F. F. Rieke. 2,658,165, Nov. 3.
Tubular getter container. C. F. Veenemans, S. H. R. Visser, and F. Jansen. 2,657,452, Nov. 3.
Turbine rotor for turbojet engines. R. M. Williams. 2,657,902, Nov. 3.
2,4-diamino-5-phenoxypyrimidines. G. H. Hitchings, P. B. Russell, and E. A. Falco. 2,658,066, Nov. 3.
Typographical machine. C. W. Seaward and J. Latorraca. 2,657,790, Nov. 3.
Uniform tension maintaining device. H. Lungstrom. 2,657,866, Nov. 3.
Vacuum cleaner brush mounting. F. S. Howard. 2,657,418, Nov. 3.
Vacuum cleaner, Including a bottom closure member. F. S. Howard. 2,657,417, Nov. 3.
Vacuum spotting board. F. H. Richterkessing. 2,657,566, Nov. 3.
Valve: *See*—
- Fluid control valve.
- Fluid shut-in valve.
- Refrigeration controlling valve.
- Remotely controllable crankcase drain valve.
- Single handle thermostatic mixing valve.
- Smooth opening automatic lubricated gate valve.
- Thermostatic mixing valve.
- Toilet flush valve.

Valve. A. J. and I. F. Fausek. 2,657,704, Nov. 3.
Valve. H. A. Gillerstrom and R. O. Canning. 2,657,709, Nov. 3.
Valve assembly with continuous annular sealing means, Butterfly. F. G. Muller. 2,657,896, Nov. 3.
Valve body comprising one or more apertures provided in the wall thereof, Cylindrical. J. W. L. Köhler and A. A. Liebe. 2,657,899, Nov. 3.
Valve closure, Detachable. R. L. Burchett. 2,657,563, Nov. 3.
Valve construction, Pulse jet motor fuel inlet. W. I. E. Kamm, W. F. Krautter, and K. Staiger. 2,657,708, Nov. 3.
Valve mechanism for beverage dispensing devices. J. D. Gerken and H. V. Madden. 2,657,835, Nov. 3.
Valve operating apparatus. A. Latour. 2,657,710, Nov. 3.
Valve operating means, Drain. L. K. Watkins. 2,657,398, Nov. 3.
Valve with resilient pressure actuated seal. C. H. Folmsbee. 2,657,897, Nov. 3.
Vat, Whisky aging. R. B. Gibson. 2,657,629, Nov. 3.
Vehicle sill mat. M. J. Sturtevant. 2,657,948, Nov. 3.
Velocity modulation device, Tunable. K. T. Bainbridge. 2,658,147, Nov. 3.
Venetian blind and control means therefor, Automobile. A. S. Coppage. 2,657,923, Nov. 3.
Venetian blind headrail. B. Walker. 2,657,747, Nov. 3.
Vent cap. T. L. Kendall. 2,658,100, Nov. 3.
Ventilator, Wall. W. G. Moore. 2,657,570, Nov. 3.
Ventilator, Window. A. E. Wittenberg. 2,657,624, Nov. 3.
Vine trimmer, Cranberry. F. P. Crandon and H. C. Leonard. 2,657,512, Nov. 3.
Vinyl chloride polymers plasticized with cyanoethyl ethers of S-(2-arylethyl)-2-mercaptoethanols. J. Dazzi. 2,658,047, Nov. 3.
Voltmeter, Vacuum tube. D. R. de Boisblanc. 2,658,180, Nov. 3.
Walker, Baby. J. A. Hughes. 2,657,735, Nov. 3.
Wall and ceiling protector and ventilator. F. R. Sonntag. 2,657,626, Nov. 3.
Wall cooling arrangement for combustion devices. L. J. Pierce. 2,657,531, Nov. 3.
Washing machine having flexible extractor and automatic control. G. C. Graham. 2,657,564, Nov. 3.
Water gas, Production of. F. T. Barr and K. J. Nelson. 2,657,986, Nov. 3.
Water gas, Production of. F. T. Barr. 2,657,987, Nov. 3.
Watermelon crusher and seed separator. L. J. Quilling. 2,657,801, Nov. 3.
Water separator. P. A. Mankin. 2,657,808, Nov. 3.
Wear indicator. W. J. Bielstein. 2,657,909, Nov. 3.
Weighing device. H. L. MacBride. 2,657,921, Nov. 3.
Welding apparatus. E. L. Tichenor and W. F. Cremins. 2,658,162, Nov. 3.
Well construction, Pitless. J. G. Baker. 2,657,637, Nov. 3.
Wet-spinning cellulose triacetate. E. B. Johnson and J. F. Webster. 2,657,973, Nov. 3.
Wheel: *See*—
- Molded decorative steering wheel.
- Road-rail wheel.

Wheel unit mounting. L. O. Greeley. 2,657,935, Nov. 3.
Whistle, Bicycle. C. V. Tidswell. 2,657,662, Nov. 3.
Winding apparatus, Thread. F. B. Breazeale. 2,657,868, Nov. 3.
Winding machine, Toroidal coil. M. O. Bennert and H. E. Cradduck. 2,657,865, Nov. 3.
Windshield wiper. A. Rappl. 2,657,415, Nov. 3.
Wiping device, Adjustable line. D. G. Miller and J. C. Grant. 2,657,414, Nov. 3.
Wire twister. I. L. Greathouse. 2,657,718, Nov. 3.
Wood structure and making same, Protected. G. M. Williams. 2,658,015, Nov. 3.
Wrench: *See*—
- Finger control attachment wrench.
- Internal pipe wrench.
- Ratchet wrench.

Yarn, Abrading. E. J. Griset, Jr. 2,657,522, Nov. 3.
Yarn-guide and tension device, Combined. P. Fiorino. 2,657,878, Nov. 3.
Yarn or fabric, Preshrunk. A. F. Burkardt. 2,657,717, Nov. 3.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 3, 1953

NOTE.—First number = class, second number = subclass, third number = patent number

1—	47:	2,657,382	29—	148:	2,657,454	60—	52:	2,657,534	93—	77:	2,657,617	128—	55:	2,657,685	178—	5.2:	2,658,102
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	49:	2,657,384		155.57:	2,657,456			2,657,536	97—	7:	2,657,619		61:	2,657,687		7.2:	2,658,104
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	42:	2,657,386		360:	2,657,458			2,657,538		47.04:	2,657,621		284:	2,657,689		30:	2,658,106
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	88:	2,657,389	32—	17:	2,657,461	62—	1:	2,657,541	98—	99.2:	2,657,624	129—	16:	2,657,692		18:	2,658,109
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	131.1:	2,657,410	40—	86:	2,657,487	70—	216:	2,657,567	104—	28:	2,657,642		79:	2,657,713			2,657,773
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	210:	2,657,414		70:	2,657,490	72—	127:	2,657,570	106—	15:	2,658,000		426:	2,657,717		3:	2,657,777
	245:	2,657,415	43—	12:	2,657,491		129:	2,657,571		135:	2,658,001	140—	93:	2,657,718			2,657,778
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	8:	2,657,427		126:	2,657,499		221:	2,657,583	112—	36:	2,657,653		242:	2,657,728		50:	2,658,028
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	4:	2,657,432		184.2:	2,657,506		677:	2,657,592	116—	58:	2,657,662		24:	2,657,735		61.25:	2,658,119
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20—	19:	2,657,436		197:	2,657,509		74:	2,657,990		67:	2,658,008		179:	2,657,738			2,658,122
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	92:	2,657,439	56—	8:	2,657,512		55:	2,657,596		220:	2,657,664	158—	1.5:	2,657,741		113:	2,658,125
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	188:	2,657,974		42:	2,657,514	80—	5.1:	2,657,598		322:	2,657,666			2,657,743		147:	2,658,127
23—	59:	2,657,975			2,657,515	81—	3.2:	2,657,599		506:	2,657,667		53:	2,657,744		148:	2,658,128
	87:	2,657,976			2,657,516		9.1:	2,657,600		612:	2,657,668		77:	2,657,745		166:	2,658,129
	103:	2,657,977		295:	2,657,517		9.51:	2,657,601	120—	1:	2,657,669	160—	89:	2,657,746		168:	2,658,130
	143:	2,657,978		377:	2,657,518		52.35:	2,657,602		13:	2,657,670		168:	2,657,747	201—	56:	2,658,131
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	207:	2,657,980			2,657,520		63.2:	2,657,604		96:	2,657,672		18:	2,657,749			2,658,030
24—	72.5:	2,657,441		400:	2,657,521		72:	2,657,605	121—	41.5:	2,657,673	164—	84.5:	2,657,750		99:	2,658,031
	81:	2,657,442	57—	2:	2,657,522		165:	2,657,606		121:	2,657,674	166—	10:	2,657,751			2,658,061
	201:	2,657,443		88:	2,657,523	84—	95:	2,657,607		194:	2,657,675		19:	2,657,752	204—	44:	2,658,032
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CLASSIFICATION OF DESIGNS

D 3—26: Des. 170,742
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Des. 170,783
D14— 6: Des. 170,761
D16— 2: Des. 170,770
D17— 1: Des. 170,787

D24— 1: Des. 170,739
D25— 1: Des. 170,753
D26— 5: Des. 170,762
D33— 7: Des. 170,740
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D35— 2: Des. 170,778
D44—10: Des. 170,763
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D47— 7: Des. 170,749
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D48—20: Des. 170,771
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D57— 1: Des. 170,746
D58— 8: Des. 170,754
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D59— 2: Des. 170,786
D62— 2: Des. 170,743
D71— 1: Des. 170,751
D77— 1: Des. 170,776
D81—10: Des. 170,766
D83— 1: Des. 170,744

D85— 2: Des. 170,747
D86—10: Des. 170,750
D87— 3: Des. 170,769
Des. 170,775
D90—20: Des. 170,765
D92—26: Des. 170,757

U. S. GOVERNMENT PRINTING OFFICE: 0——1953

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,645,643. (See 2,352,480.)

1,856,627, H. W. Fletcher, Cutter for earth boring drill; 2,333,746, Scott, Garfield & Cockrum, Cutter teeth for well drills, D. C., W. D. Okla. (Oklahoma City), Doc. 4370, *Hughes Tool Co.* v. *D. B. Cole.* Injunction: defendant's counterclaim dismissed July 31, 1953. Doc. 4374, *Hughes Tool Co.* v. *B. F.Conaghan.* Decree as above.

2,133,642, 2,133,643, 2,133,644, 2,133,645, 2,133,646, 2,133,648, G. W. Pierce, Electrical system; 2,266,070, same, Electromechanical vibrator apparatus, appeal filed July 13, 1953, C. C. A., 1st Cir., Boston, Doc. 4757, *American Communications Co., Inc.* v. *George W. Pierce.*

2,133,643. (See 2,133,642.) 2,133,644. (See 2,133,642.)

2,133,645. (See 2,133,642.) 2,133,646. (See 2,133,642.)

2,133,648. (See 2,133,642.) 2,266,070. (See 2,133,642.)

2,301,571. (See 2,352,480.) 2,333,746. (See 1,856,627.)

2,352,480, L. A. Hyland, Spark plug: Re. 21,550, same, Shielded spark plug; 2,352,481, same, Spark plug structure; 2,301,571, E. B. Nowosielski, Electrical apparatus; 1,645,643, Crook & Jakobsson, Nongrounded transmission line, D. C. Del., Doc. 755, *L. H. Crook et al.* v. *Bendix Aviation Corp.* Consent order dismissing cause of action with prejudice Aug. 4, 1953.

2,352,481. (See 2,352,480.)

2,425,652, W. A. Starkey, Method and apparatus for spray coating articles; 2,632,716, same, Method of coating articles, filed July 31, 1953, D. C., E. D. Wis. (Milwaukee), Doc. 6019, *Ransburg Electro-Coating Corp.* v. *Hamilton Mfg. Co.*

2,632,716. (See 2,425,652.)

Re. 21,550. (See 2,352,480.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 39,405. (See T. M. 201,694.)

T. M. 95,398. (See T. M. 201,694.)

T. M. 95,990. (See T. M. 201,694.)

T. M. 108,852. (See T. M. 201,694.)

T. M. 190,028. (See T. M. 201,694.)

T. M. 199,246. (See T. M. 201,694.)

T. M. 201,694, T. M. 224,249, T. M. 222,073, T. M. 216,070, General Motors Corp., Automobiles; T. M. 511,603, T. M. 511,688, T. M. 562,305, T. M. 518,133, T. M. 190,028, same, Automobiles and structural parts thereof; T. M. 199,246, T. M. 202,413, T. M. 293,706, same, Motor driven vehicles; T. M. 245,099, same, Automobiles and motor-driven trucks, etc.; T. M. 547,743, same, Automobiles, and bodies thereof; T. M. 201,798, T. M. 95,990, Chevrolet Motor Co., Automobiles and accessories; T. M. 288,418, same, Combined automobile body polish and cleaner in liquid form; T. M. 95,398, same, Automobiles, motor vehicles, etc.; T. M. 108,852, Buick Motor Co., Motor vehicle; T. M. 232,688, Howard Automobile Co., Second-hand Buick automobiles restored to substantially their initial condition; T. M. 39,405, Olds Motor Works, Automobiles, filed Aug. 3, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1696, *General Motors Corp.* v. *Jewelcrest Industries, Inc., et al.*

T. M. 201,798. (See T. M. 201,694.)

T. M. 202,413. (See T. M. 201,694.)

T. M. 216,070. (See T. M. 201,694.)

T. M. 222,073. (See T. M. 201,694.)

T. M. 224,249. (See T. M. 201,694.)

T. M. 232,688. (See T. M. 201,694.)

T. M. 245,099. (See T. M. 201,694.)

T. M. 288,418. (See T. M. 201,694.)

T. M. 293,706. (See T. M. 201,694.)

T. M. 511,603. (See T. M. 201,694.)

T. M. 511,688. (See T. M. 201,694.)

T. M. 518,133. (See T. M. 201,694.)

T. M. 547,743. (See T. M. 201,694.)

T. M. 562,305. (See T. M. 201,694.)

NOTICES

Prima Facie Showings of Abandonment In Trade-Mark Cases

Under the prior trade-mark acts, the practice developed of permitting an applicant for registration whose application had been rejected on the basis of a prior registration to another, to file an ex parte showing that the mark of the reference registration had been abandoned, and the Office would thereupon issue a second registration to the applicant if the prior registrant failed to respond to a letter of inquiry. This practice, while it may have been justified under the prior trade-mark acts, is no longer believed to be fully justified or useful and will be discontinued on and after January 1, 1954. After that date an applicant who has been rejected on a prior registration and wishes to remove the registration as a reference on the

basis of its non-use and is not entitled to an interference therewith, will be required to obtain the cancellation of the registration.

The following considerations led to this abandonment of the prior practice:

It results in the simultaneous existence of two conflicting registrations to different parties, and this situation is believed to be inconsistent with the spirit of the Trade-Mark Act of 1946. Under Section 2(d) of the Trade-Mark Act of 1946 an application for registration must be refused if the mark sought to be registered so resembles a mark registered in the Patent Office as to be likely to cause confusion or mistake or to deceive purchasers. A fair interpretation of this section is that a registered mark constitutes a reference as long as the registration remains in force.

The old practice is inconsistent with decisions which have held that in an opposition in which the opposer relies upon a registration, the applicant is not permitted to show that the mark of the opposer's registration has been abandoned, but must file a petition to cancel the registration in order to raise the question. If the applicant in the opposition proceeding, with the registrant a party thereto, is not permitted to urge or show that the mark of the registration has been abandoned, he should not be permitted to urge abandonment of the registered mark ex parte.

Under the Trade-Mark Act of 1946 all owners of registrations obtained under the new act must, during the sixth year of the registration, file an affidavit showing that the mark is still in use; and owners of registrations under the act of 1905 which have been republished under Section 12(c) of the act of 1946 are also required to file such an affidavit during the sixth year after the date of the republication. If this affidavit is not filed the registration is cancelled by the Commissioner. All applicants for renewal of registrations have been required, since July 5, 1947, to file an affidavit that the mark is still in use, to obtain the renewal. Consequently, the majority of registrations in existence soon will be registrations which are under six years old and registrations in which affidavits of use have been recently filed. With this elimination of registrations of abandoned marks by operation of law, the occasions on which a prima facie showing of abandonment under the old practice would be of any value will be far fewer than under the old trade-mark act, and the practice will not be sufficiently useful to warrant its continuation in the light of the other objections thereto.

The substitute for the old practice, namely, the filing of a petition to cancel the reference registration, will not be any significantly greater burden than the prior practice. If such a petition is filed and the respondent fails to answer, and this was the only situation in which the prior practice had any effect, judgment is issued by default and the registration is cancelled. If the respondent replies to the petition for cancellation, the proceedings will continue, but in the prior practice, if the respondent replied to an inquiry of the Patent Office, the prima facie showing of abandonment would be fruitless and a cancellation proceeding would be necessary. In the petition for cancellation when the respondent has answered, the petitioner may still, if he has made an investigation which shows that the registration has been abandoned, file a motion for summary judgment based upon an accompanying prima facie showing of abandonment which, if not rebutted by the respondent, will likewise lend to a judgment for the petitioner.

ROBERT C. WATSON,
Commissioner of Patents.

Oct. 9, 1953.

Recording Articles of Incorporation

In 1921 the Patent Office began a practice of receiving and filing articles of incorporation of companies, which has been referred to as recording, so that their names would be available for trade-mark searches, since under the Trade-Mark Act of 1905 a trade-mark could be refused registration if it was similar to the corporate name of another, without anything further. This file is of little or no value under the provisions of the Trade-Mark Act of 1946 and the corporate names identified by articles of incorporation have not been cited against applications for the registration of trade-marks under the new act. Also, the filing of such papers has diminished in volume until only a few are currently filed each year and in view of that fact and of the further fact that no attempt has been made to remove the names of corporations which are no longer in existence, the file has become practically obsolete.

The practice of recording, or receiving and filing, articles of incorporation by the Patent Office is herewith discontinued. Order No. 3181 relating to this practice is rescinded.

The disposition of the papers now on file will be announced later.

ROBERT C. WATSON.
Commissioner of Patents.

Oct. 9, 1953.

Classification Bulletins Nos. 200 (Revision 1) and 413

The Classification Bulletins containing the following Classification Orders pertaining to the classification of subjects of invention revised by the Classification Group of the United States Patent Office are now available and copies may be obtained from the Commissioner of Patents at the prices indicated:

Class	Title	Order No.	Bulletin No.	Price
260	Chemistry, Carbon Compounds	147	200, Rev. 1	$0.80
333	Wave Transmission Lines and Networks	145 to 147	413	.60

Classification Order No. 152

The following transfers are hereby ordered to take effect on Wednesday, October 21, 1953:

From Division 38 to Division 63:
- Class 51, Abrading
  - Subclasses 293 to 309
- Class 106, Compositions, Coating or Plastic
  - Subclasses 3 to 32, 123 to 285, 287 to 311

From Division 38 to Division 25:
- Class 21, Preserving, Disinfecting and Sterilizing
  - Subclasses 62 to 73
- Class 117, Coating: Processes and Miscellaneous Products
- Class 118, Coating Apparatus

From Division 25 to Division 5:
- Class 130, Threshing
- Class 146, Vegetable and Meat Cutters and Comminutors

From Division 25 to Division 55:
- Class 209, Classifying, Separating and Assorting Solids
- Class 233, Centrifugal-Bowl Separators
- Class 241, Solid Material Comminution or Disintegration

From Division 55 to Division 35:
- Class 132, Toilet

From Division 63 to Division 38:
- Class 260, Chemistry, Carbon Compounds
  - Subclasses 124 to 235, 350 to 395, 453 to 462

M. C. ROSA,
Executive Examiner.

Oct. 14, 1953.

Discontinuance of Sale of Publications

The Patent Office has discontinued selling any publication which is offered for sale by the Superintendent of Documents. Items previously obtained from the Patent Office which should now be ordered directly from the Superintendent of Documents, Washington 25, D. C., are as follows:

Publication	Price
Guide for Patent Draftsmen	$0.15
Patent Laws	.25
Rules of Practice of the U. S. Patent Office in Patent Cases	.40
Rules of Practice in Trade-Mark Cases with Forms and Statutes	.40
Story of American Patent System 1790–1952	.20

These publications may also be purchased at the sales office maintained by the Superintendent of Documents in the lobby of the Department of Commerce building.

Payment on mail order of these publications may be made in cash or Superintendent of Documents coupons, or by check or money order payable to the Superintendent of Documents. Postage stamps are not acceptable and cash is remitted at the risk of the sender. The Patent Office no longer accepts Superintendent of Documents coupons in payment for printed copies of patents, photostats, or other items supplied or services rendered by the Patent Office.

Adjudicated Patents

(D. C. Okla.) Scott Patent No. 2,333,746, for rotary drill bit, *Held* valid and infringed. *Hughes Tool Co. v. Cole*, 113 F. Supp. 519, 98 USPQ 131.

(D. C. Mass.) Tupper Design Patent No. 144,429, for combined match case, *Held* invalid. *Tupper Corp. v. Tilton & Cook Company*, 113 F. Supp. 805; 98 USPQ 213.

(D. C. N. J.) Bener Patent No. 2,121,005, for process of producing textiles with calender finish permanent to washing and product thereof. Claims 2 and 3 *Held* invalid. *Joseph Bancroft & Sons Co. v. Brewster Finishing Company*, 113 F. Supp. 714; 98 USPQ 187.

(D. C. Mich.) Touchett Patent No. 2,427,581, for paint applicator, *Held* invalid. *E-Z Paintr Corp. v. Thomas Products Co. et al.*, 113 F. Supp. 827; 98 USPQ 248.

(D. C. Mich.) Touchett Patent No. 2,444,584, for sloping bottom tray and support structure, *Held* invalid. Id.

Cancellation Notices

[6119]

George W. Stimpson, his assigns or legal representatives, take notice:

The Post Printing and Publishing Company, of 650 Fifteenth Street, Denver, Colorado, has filed a petition for cancellation of Trade-Mark Registration No. 418,797 of George W. Stimpson, 726 National Press Building, Washington, D. C., registered January 8, 1946, and notice of such proceeding has been sent by registered mail to the said George W. Stimpson at the said address and has been returned by the post office as undeliverable.

Since this Office has been informed that the registrant is now deceased, notice is hereby given that unless the assigns or legal representatives shall enter an appearance in the aforesaid cancellation proceeding within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Nov. 3.)

DAPHNE LEEDS,
Assistant Commissioner of Patents.

Oct. 6, 1953.

[6120]

Ben B. Krasnow, his assigns or legal representatives, take notice:

The Deerfield Groves Company of Wabasso, Indian River County, Florida, has filed a petition for cancellation of Trade-Mark Registration No. 319,292 of Ben B. Krasnow of California Fruit Building, Sacramento, California, registered November 20, 1934, and notice of such proceeding has been sent by registered mail to the said Ben B. Krasnow at the said address and has been returned by the post office as undeliverable.

Since this Office has been informed that the registrant is now deceased, notice is hereby given that unless the assigns or legal representatives shall enter an appearance in the aforementioned cancellation proceeding within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Nov. 3.)

DAPHNE LEEDS,
Assistant Commissioner of Patents.

Oct. 12, 1953.

[6127]

Charles E. Newman, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Gould Novelties, Inc., 1657 Broadway, New York, New York, to effect the cancellation of trade-mark registration of Charles E. Newman, 3619 Broadway, Kansas City, Missouri: No. 316,849, dated September 4, 1934, and the notice of such proceeding sent by registered mail to the said Charles E. Newman, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Charles E. Newman, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published for three consecutive weeks in the OFFICIAL GAZETTE. (Date of first publication—Nov. 3.)

DAPHNE LEEDS,
Assistant Commissioner of Patents.

Oct. 12, 1953.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,636,532. Pocket Cigarette Ash Receiver and Snuffer. Patented Apr. 28, 1953. Envelope type pocket ash receiver and snuffer for personal use is made of a strip of flexible material, such as leather. One end of the strip is folded inwardly providing a space to receive a fireproof lining. The opposite end of the strip is bent upon itself a distance to provide a flap which overlies the end of the lining. The side edges of the envelope are closed by strips of fireproof material. A burning cigarette may be snuffed out by placing it within the envelope and pressing the sides of the envelope against the cigarette. (Owner) Louis P. Putt, 633 Main St., Wellsville, Ohio. Groups 31—72; 40. Reg. No. 52,032.

Pat. 2,315,027. Hydrocar or Vehicle With Water Wing Wheels. Patented Mar. 30, 1943. Vehicle for traveling on water includes a buoyant body having thin streamlined water wings with low angle of incidence disposed to the free hydrodynamic action of water on all sides to promote rapid transportation at low power cost consumption upon lakes or streams. The wings may be mounted on the spokes of wheels, or fixed by low resistance streamlined supports either to endless band type wheels, or to links of endless chains. The body of the vehicle is also equipped with one or more independent fixed wings connected to low resistance streamlined movable supports operated by manual control levers so that these wings may be immersed below the surface of the water or lifted above the water. The fixed wings when immersed increase the stability and carrying capacity of the vehicle when starting, stopping, or running at low speed. (Owner) Helge S. Svenson, Apartado aereo 20—48, Villavicencio, Colombia, South America. Group 37—31. Reg. No. 52,033.

Pat. 2,633,922. Jet-Propulsion Mechanism. Patented Apr. 7, 1953. Jet propulsion mechanism for helicopters and the like comprises a jet-driven multi-blade rotor. A jet power unit in the form of a hollow angular casing having a mixing chamber and a combustion chamber is mounted inside the outer end of each hollow rotor blade to revolve the rotor and propel an aircraft. A central fuel tank mounted for rotation with the rotor is connected to solenoid-actuated fuel injectors mounted on the power units. Longitudinal air ducts and ports controlled by cam-actuated valves are provided inside the rotor blades for the admission of air into the mixing and combustion chambers. Centrifugal force created by the revolving rotor forces air under pressure into the mixing and combustion chambers and compresses the fuel mixture in these chambers for ignition by spark plugs. Expansion of the burning fuel charges automatically opens jet valves to permit the discharge of jet blasts to revolve the rotor. (Owner) Helge S. Svenson, Apartado aereo 20—48, Villavicencio, Colombia, South America. Group 37—22. Reg. No. 52,034.

Pat. 2,633,507. Timer. Patented Mar. 31, 1953. Timer, for plugging into an electrical outlet with means for automatically turning on and off a radio, lamp, or other appliance at a predesignated time, may be incorporated in an electrically or spring-operated alarm clock without interfering with the conventional use as an alarm clock. The clock face has two knob-set alarm indicator dials, one associated with mechanism to "make" an electric circuit to turn on a radio, and the other associated with mechanism to "break" the circuit to turn off the radio. Both "make" and "break" mechanisms include cam means controlled by the indicator, a gear operatively associated with the cam and driven by the clockworks mechanism, and a resilient arm activated by the cam and gear to close or open a magnetic switch. A clapper arm may be locked or unlocked by an alarm button to convert the clock to a timer or back to a conventional alarm clock. A radio or other appliance is plugged into an electric outlet on one side of the clock. (Owner) Harold T. Pehr, 1809 Brownell St., Kansas City 24, Mo. Groups 34—61; 36—19. Reg. No. 52,035.

Pat. 2,254,797. Trailer Coupling for Bicycles. Patented Sept. 2, 1941. Trailer coupling which permits a quick attachable and detachable coupling of a trailer to a bicycle. The coupling permits the trailer to remain upright at all times regardless of the angle at which the bicycle may lean in making a turn or when leaning against a building, etc. A horizontal eye bolt is rotatably mounted in the front portion of a trailer chassis. The rear inturned ends of a pair of fork members are pivoted to the eyebolt, and the forward ends are provided with openings to detachably engage the outer ends of a rear bicycle axle. A tension spring and a locking latch are provided between the rear ends of the fork members to prevent the fork members from becoming disengaged from the bicycle axle, and to also prevent rattling. (Owner) Alban A. Dubay, 337 Hampshire St., Lawrence, Mass. Groups 35—69; 37—41. Reg. No. 52,036.

Pat. 2,472,648. Pump Primer. Patented June 7, 1949. Pump primer includes a transparent, shatter-proof, non-frangible cylindrical body with two independent floats arranged within the body. A conduit in an opening in the lower end of the primer may be detachably connected to a water pump, and an opening in the upper end of the primer may be connected by a conduit to any suitable vacuum pump. One of the floats controls a mercury switch to automatically shut off the motor of the vacuum pump when the water in the primer rises to a predetermined level. The other float in the form of a hollow freely movable ball check valve is automatically operable to seat against and close the opening in the upper end of the primer to prevent the passage of liquid from the primer into the vacuum pump in the event of failure of the first float. (Owner) James M. Cox, 22 Coral St., Fall River, Mass. Group 35—61. Reg. No. 52,037.

Pat. 2,629,810. Portable Clothes Drier. Patented Feb. 24, 1953. Portable clothes drier may be used in conjunction with a washing machine to dry the clothes in the machine after they have been washed. The drier comprises an open-end casing containing a heating unit in an inner spaced housing and a blower within the casing adjacent the housing. A shell embracingly surrounds one end of the casing. The shell and the adjacent portion of the casing are adapted to be inserted in an opening in a washing machine so that the blower will draw outside air into the casing and force it over the heating unit into the washing machine. The shell serves as an exhaust port to permit the escape of air after it has circulated over the clothes. A germicidal lamp may be positioned in the casing to throw sterilizing light rays against the clothes. (Owner) Harry G. Ditlow, 532 Pine St., Philadelphia 6, Pa. Group 35—81. Reg. No. 52,038.

Pat. 2,451,271. V-Type Internal-Combustion Engine. Patented Oct. 12, 1948. Internal combustion engine of inverted V-type design is particularly suitable for airplanes. The engine has a plurality of cylinders extending radially and downwardly from the crankcase. A crankshaft journaled in the crankcase is operatively connected to pistons in the cylinders. The walls of the cylinders are provided with longitudinally spaced main exhaust and scavenger ports. Sleeve valves slidably disposed in the cylinders and surrounding the pistons have longitudinally spaced ports for registration with the ports in the cylinders. Plugs in the lower ends of the cylinders having portions extending into the sleeve valves are provided with fuel inlet ports controlled by poppet valves. Crankshafts for reciprocating the sleeve valves, camshafts for actuating the poppet valves, and countershafts for driving the crankshafts and camshafts are all journaled on the plugs. The countershafts are operatively connected to the main crankshaft of the engine. The plug and adjacent shaft assemblies are enclosed in casings removably secured to the lower ends of the cylinders. (Owner) George L. Balster, 2521 Sumner St., Lincoln, Nebr. Group 37—22. Reg. No. 52,039.

Pat. 2,469,835. Bib. Patented May 10, 1949. Inexpensive bib for babies, patients, or others is adapted to be used only once and then disposed of. The body portion of the bib is provided with three spaced transversely scored lines. The portion between the two lowermost lines is provided with end tabs having adhesively coated portions. The body portion may be folded along the scored lines and the tabs secured to the bib to form a transverse dribble trough having angular shaped ends and a double thickness front wall. Arcuate flaps around a neck opening in the upper part of the body portion are provided with adhesively coated portions so that the flaps may be secured together to snugly fit about the neck of the wearer. (Owner) Mrs. Robert McMartin, Route 6, Box 395, Duluth 4, Minn. Groups 26—99; 40. Reg. No. 52,040.

Pat. 2,629,516. Combination Liquid Pistol and Spotlight. Patented Feb. 24, 1953. Defense weapon for warding off an attacker in the dark comprises a combined spotlight and liquid pistol in which merely squeezing the grip turns on a light and projects a stream of noxious liquid. A plastic pistol-shaped housing has two bores in the barrel. In the upper bore a flashlight is housed; in the lower is a flexible discharge tube connected to a liquid-containing re-fillable bulb positioned in the handle grip. Spring means normally bias a trigger to its outward position in which an upper extension closes the discharge tube. Gripping the handle presses the light switch lever, and the trigger releases the discharge tube and moves a presser against the bulb, ejecting a stream of liquid. As the bulb is being emptied, the presser is held against it by a pin which is received in successive notches of a pivoted pawl operating in a slot in the trigger. Thus, discharge of liquid is produced in a number of separate squirts as the trigger is squeezed, released, and squeezed again. (Owner) Lucretia E. Badham. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Groups 33—97; 34—81; 39—81. Reg. No. 52,041.

Pat. 2,382,016. Aircraft Control. Patented Aug. 14, 1945. Apparatus for rapidly braking the speed of an airplane in flight without changing the engine or propeller speed operates by varying the inflow and outflow of air through confined spaces integral with the plane. The apparatus comprises one or more conduits, integral with the wing structure, located outside and parallel to each side of the fuselage. The conduits are tapered, with the large entrance at the front. Streamlined, pivotally mounted closure doors at the entrance and exit are independently operated by controls conveniently placed, to vary the volume of air entering and discharging from the conduits; or, the exits may be closed to exert a drag whereby the degree of braking effect exerted on the airplane may be controlled in landing or in military maneuvering. By operating the braking means individually, as by actuating the right hand brake alone, control of the plane may be effected to cause a sudden change in direction for avoiding an obstacle such as a suddenly looming mountain. (Co-owner) Aubrey Love, 150 Sycamore Terrace, Glen Rock, N. J. Group 37—21—22. Reg. No. 52,042.

Pat. 2,596,433. Sliding Hinge Casement Window Structure. Patented May 13, 1952. Double casement window structure consists of a window frame having inner and outer pairs of hinged sashes slidably and swingably mounted in the frame. Each pair of sashes are hinged together along their adjacent edges so that the inner pair will swing inwardly and the outer pair will swing outwardly. Caster members are attached to the outer end corners of the top and bottom portions of each pair of sashes by hinge assemblies for supporting and guiding these ends in tracks along the top and bottom of the window frame. The tracks extend the full width of the window so that each pair of sashes may be folded upon one another, and also shifted in folded state from one side of the window opening to the other. When the sashes are closed, resilient weather stripping between the hinged edges of the sashes and around the entire window structure is compressed by the sashes to provide an insulated dead air space between the inner and outer pairs of sashes. A two-section window screen is disposed in the dead air space between the sashes. Suitable locking mechanism is provided for locking the sashes in closed position. Modifications shown. (Owner) Samuel L. Potts, 18270 Bretton Drive, Detroit 23, Mich. Groups 24—31; 33—83. Reg. No. 52,043.

Pat. 2,639,124. Annular Core Automobile Heater With Fan and Support Therefor. Patented May 19, 1953. The invention is associated with vehicles equipped with liquid cooling systems, which utilize the circulating liquid for cooling the engine. The heater, positioned within the confines of a vehicle and allowing the hot liquid to circulate therethrough, is interposed in the liquid circulatory system of the vehicle, thus radiating and heating the interior of the vehicle, and simultaneously intensifying the cooling of the engine. The liquid is continuously circulated and recirculated through the system and the heater. A hot air blower is associated with the heater to dissipate the heat currents quickly and further hasten the cooling of the engine. The structure is very compact because the heater is of annular configuration, thus providing a housing for accommodating the motor which operates the blower fan. (Owner) Heinrich Stein, 1844 North Fremont St., Chicago, Ill. Group 38—31. Reg. No. 52,044.

Pat. 2,510,630. Cigarette Feeding Device. Patented June 6, 1950. Feeder device makes the last cigarette in the pack as easy to remove as the first and prevents the pack from collapsing. It also prevents the slipping of cigarettes from the pack into a pocket or handbag. The feeder is of knife-thin metal and incorporates a pusher plate, a backer plate, and an expansible spring interposed between, which combination is held in compressed relation by a releasable latch. After insertion in a slit between a wrapper and a stack of cigarettes, the latch is released and the feeder made operable to urge the cigarettes toward the usual torn opening. When the pack is empty, the device is easily recovered, compressed, and latched for insertion in a fresh pack. The fabrication and assembly are simple. (Owner) Paul A. Goldsworthy, P. O. Box 506, Felton, Calif. Groups 33—73; 40. Reg. No. 52,045.

Pat. 2,640,326. Combination Breaker Buoy and Power Generating Means. Patented June 2, 1953. This invention consists of a buoy structure which may be mounted on pier means, positioned at regular intervals, either in parallel or in zigzag relationship to the shoreline of a natural body of water to prevent shore erosion and, in addition, to translate the wave motions and forces developed by the waves into useful power by providing a suitable power take-off. The floating buoy structures are equipped with dash-pot cushioning units to cushion the impact resulting from the buoyancy thereof when actuated by the wave motions. Water circulation is afforded through the upper section of the buoy structure, rendering the buoy compatibly responsive to the wave motions. Seal units are provided in the pier structure to prevent water from entering the pier. The buoy structures are connected to the stationary piers by means of universal connection or joints. (Owner) Thomas G. Hunter, 1316 Astor St., Chicago, Ill. Group 35—61—69. Reg. No. 52,046.

United States Government Owned Patents

The following three patents (granted under Title 35, U. S. Code (1952), Sec. 266) are the property of the United States of America as represented by the Secretary of the Interior, by virtue of assignments from the inventors, Lyman R. Spaulding (Pat. 2,608,923), William M. Deaton (Pat. 2,629,253), and Robert B. Anderson and John F. Shultz (Pat. 2,629,728). Non-exclusive and royalty-free licenses are available. Applications for licenses should be directed to the Solicitor, U. S. Department of the Interior, Washington 25, D. C.

Pat. 2,608,923. Photographic Developing Tank. Patented Sept. 2, 1952. Developing tank for attachment to a camera is particularly intended for use with a moving picture camera when short runs of film are required for examination immediately after exposure, or at any time, without disturbing the camera or the unexposed film. An external crank eccentrically mounted in a rotatable disc on the tank is connected to a pair of spaced fingers inside the tank. The disc may be turned to one position with the crank releasably engaged by a U-shaped hook to bring the space between the fingers into alignment with a slot in the tank for the admission of film from the camera into the tank. After the film has been detached from the camera, the disc is rotated to another position to move the fingers near the center of the tank. The crank is then turned to wind the film in the tank on the fingers and unwind it therefrom for agitating the film during development. Group 39—12. Reg. No. 52,047.

Pat. 2,629,253. Moisture Content Recorder for Gases Under Pressure. Patented Feb. 24, 1953. Device for continuously indicating and recording the water vapor content of natural gas or the like under pressure includes a non-corrosive pressure-resistant receptacle surrounded by an electrically heated cylindrical temperature-equalizing block with a humidity-responsive electrical resistance element mounted in the receptacle. Heat exchange coils

connected to a gas purifier embrace the lower portion of the block, and cooling coils embrace the upper portion of the block. Natural gas entering the device is purified and conducted through the heat exchange coils into the receptacle in contact with the humidity-responsive element at a constant predetermined temperature. Electrical means are provided for indicating and recording the electrical resistivity of the humidity-responsive element to indicate variations in the water vapor content of the gas. Group 35—32—65. Reg. No. 52,048.

Pat. 2,629,728. Iron Nitride Catalysts in Carbon Oxide Hydrogenations. Patented Feb. 24, 1953. Process of catalytically hydrogenating carbon monoxide to produce predominantly hydrocarbon containing more than one carbon atom in the molecule comprises the step of reacting hydrogen with carbon monoxide in the presence of a nitrided iron catalyst. The catalyst may be prepared by fusing an iron oxide, reducing the oxide, and then nitriding the reduced oxide in a stream of substantially 100% pure ammonia gas. Group 28—86—89. Reg. No. 52,049.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 3, 1953

[VOL. 676. No. 1]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.6.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

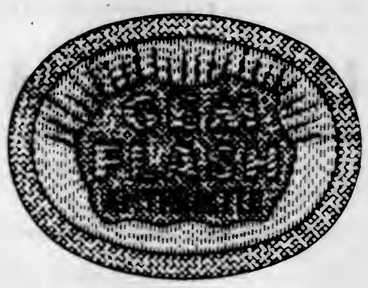
Ser. No. 582,293. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")



For Transparent and Opaque Resinous Plastic Material Sold in Sheet Form, Reclaimed Rubber and Rubber-Like Materials, Sponge Made of Rubber and Synthetic Rubber-Like Materials Sold in Sheet Form, Fusible Resinous Plastic Molding Compounds Adapted for Casting in a Molten Condition and Having the Property of Setting to a Flexible Mass on Cooling, All for General Use in the Industrial Arts, Sand-Blast Stencil Sheets, and Engravers' Rubber and Engravers' Gum for Preparation of Printing Plates.

Claims use since March 1946, as to the composite mark; and since 1880, as to "Goodrich."

Ser. No. 627,059. Foreston Coal Co., Inc., New York, N. Y. Filed Mar. 26, 1952.



The word "Anthracite" is disclaimed apart from the mark as shown. The drawing is lined for the colors orange and purple.

For Coal.

Claims use since Nov. 5, 1951.

Ser. No. 642,727. American Vermiculite Company, Inc., Spruce Pine, N. C. Filed Feb. 25, 1953.



Applicant makes no claim to exclusive use of the word "Lite" apart from the mark as shown.

For Vermiculite and Perlite.

Claims use since June 23, 1949.

Ser. No. 642,977. Kurt Landsberger, doing business under the name of Bel-Art Products, Union City, N. J. Filed Mar. 2, 1953.



No claim is made to the word "Product" and to the representation of the goods apart from the mark shown on the drawing.

For Polyethylene Tubing for Further Manufacture in the Industrial Arts.

Claims use since June 15, 1952.

Ser. No. 643,439. Stein, Hall & Company, Inc., New York, N. Y. Filed Mar. 10, 1953.



For Tapioca Flour for Further Manufacture in the Industrial Arts.

Claims use since Jan. 1, 1947.

Ser. No. 644,186. New Jersey Charcoal Co., Irvington, N. J. Filed Mar. 25, 1953.

CHAR-KING

The drawing is lined for red.
For Charcoal.
Claims use since Jan. 16, 1953.

Ser. No. 644,289. Creese and Cook Company, Danvers, Mass. Filed Mar. 27, 1953.

"BRIERPROOF"

For Calfskin Leather for Handbags.
Claims use since May 12, 1914.

Ser. No. 645,739. Stern's Nurseries, Inc., Geneva, N. Y. Filed Apr. 22, 1953. (Sec. 2f as to "Stern's.")

Stern's South Pacific Sunglory

For Hibiscus Plants.
Claims use since Jan. 19, 1953, on the mark as shown; and since Jan. 28, 1948, on "Stern's."

Ser. No. 645,870. Clarelen Orchid Co., Inc., Fox Bluff, Madison, Wis. Filed Apr. 24, 1953.

Cocktail

For Orchids.
Claims use since Feb. 15, 1951.

Ser. No. 645,905. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed Apr. 24, 1953.

GARANIZED

For Coated Glass Fibers, Filaments, and Strands.
Claims use since Apr. 14, 1953.

Ser. No. 645,906. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed Apr. 24, 1953.

GARANIZING

For Coated Glass Fibers, Filaments, and Strands.
Claims use since Apr. 9, 1953.

Ser. No. 645,948. Berry Seed Company, Clarinda, Iowa. Filed Apr. 27, 1953.

COLD CREEK

For Alfalfa Seed.
Claims use since Feb. 2, 1953.

Ser. No. 646,021. Stern's Nurseries, Inc., Geneva, N. Y. Filed Apr. 27, 1953. (Sec. 2f as to "Stern's.")

Stern's Pillar of Fire

For Crab Apple Trees.
Claims use since Mar. 25, 1953, on the mark as shown; and since Jan. 28, 1948, on "Stern's."

Ser. No. 646,304. National Lead Company, Sayreville, N. J., and New York, N. Y. Filed May 1, 1953.

LORITE

For Diatomaceous Materials.
Claims use since June 1, 1949.

Ser. No. 646,372. Eagle-Flagg Tanning Corporation, New York, N. Y. Filed May 4, 1953.

Caravan

For Leather in the Piece for the Manufacture of Leather Bags, Handbags, and Utility Cases.
Claims use since Feb. 20, 1953.

Ser. No. 646,534. Jess & C. A. Cutler, Inc., Columbus, Ga. Filed May 6, 1953.

JESSCA

For Live Chinchillas and Chinchilla Pelts.
Claims use since Feb. 27, 1953.

CLASS 2

RECEPTACLES

Ser. No. 625,833. Transparent Package Company, Chicago, Ill. Filed Mar. 1, 1952.

UNIFILM

For Plastic Tubes (Used as Containers for Food).
Claims use since Feb. 22, 1952.

Ser. No. 628,755. Flexcel Container Company, Kansas City, Mo. Filed Apr. 26, 1952.

FLEXCEL

For Plastic Bottles.
Claims use since Feb. 2, 1952.

Ser. No. 634,257. Keystone Brass Works, Inc., Erie, Pa. Filed Aug. 21, 1952.

Suburban

For Plastic Dishes for Table Use.
Claims use since July 10, 1952.

Ser. No. 636,016. The Interstate Folding Box Company, Middletown, Ohio. Filed Oct. 1, 1952.

HANDI-STATE

The term "Handi" is disclaimed apart from the mark as shown.
For Collapsible Paperboard Bottle Carriers.
Claims use since Dec. 20, 1951.

Ser. No. 641,097. The Standard Envelope Mfg. Co., Cleveland, Ohio. Filed Jan. 21, 1953.

INSTANSEAL

For Merchandise Envelopes, Bags, and Cartons Made of Paper and Cardboard.
Claims use since Nov. 18, 1952.

Ser. No. 645,698. Cornell Paperboard Products Co., Milwaukee, Wis. Filed Apr. 22, 1953.

LOC-O MATIC

No claim is made to the term "Loc" apart from the mark as shown.
For One-Piece Paperboard Garment Box.
Claims use since Jan. 26, 1953.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 604,088. Fuld Brothers, Inc., Baltimore, Md. Filed Sept. 27, 1950.

Guaranteed QUALITY

No claim is made to the words "Guaranteed" and "Quality" apart from the mark as shown. The lining in the drawing is intended only to show contrast and no claim is made to the lining as such.
For Insecticides, Household, and Industrial Germicides, Fungicides, Herbicides, Rodenticides, Sterilizing Compositions for Killing Bacteria, Disinfectants, and Household and Industrial Deodorants.
Claims use since Aug. 30, 1950.

Ser. No. 628,455. Flexidraw Company, Dearborn, Mich. Filed Jan. 11, 1952.

FLEXIDRAW

For Rust Proofing Compounds.
Claims use since Oct. 1, 1951.

Ser. No. 626,384. Klenzade Products, Incorporated, Beloit, Wis. Filed Mar. 13, 1952.

K-O-10

For Liquid Sanitizer for Food Handling Equipment.
Claims use since on or about Jan. 1, 1950.

Ser. No. 628,655. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Apr. 24, 1952.

STA-Rx

Applicant claims ownership of Registrations Nos. 331,462 and 337,166.
For Starch for Industrial Use.
Claims use since Dec. 5, 1951.

Ser. No. 629,198. General Motors Corporation, Detroit, Mich. Filed May 5, 1952.

SUPER 11

The word "Super" is disclaimed apart from the mark. Applicant claims ownership of Registration No. 369,588.
For Fluid for Hydraulic Brakes, Shock Absorbers, and the Like.
Claims use since Aug. 2, 1948.

Ser. No. 630,799. Ross & Rowe, Inc., New York, N. Y. Filed June 5, 1952.

LUSAL

No claim is made to the representation of a map of the United States apart from the mark shown in the drawing. Applicant claims ownership of Registrations Nos. 433,064 and 433,063.
For Lecithin.
Claims use since July 31, 1946.

Ser. No. 635,115. Armor-Tuf Laboratories, Inc., New York, N. Y. Filed Sept. 11, 1952.

ARMOR-TUF

For Compound for Hardening and Alloying Steel.
Claims use since June 21, 1949.

Ser. No. 639,728. Vis-Ko, Inc., Sumner, Wash. Filed Dec. 18, 1952. (Sec. 2f.)

FISH-TOX

Applicant claims ownership of Registration No. 529,244.
For Compound for Use in the Eradication of Fish.
Claims use since Aug. 14, 1947.

Ser. No. 640,249. American Cyanamid Company, New York, N. Y. Filed Jan. 2, 1953.

AEROFLOC

For Flocculating and Filtering Reagent for Use in Processing Coal and Minerals.
Claims use since Oct. 30, 1952.

Ser. No. 645,544. Caram Manufacturing Company, Monrovia, Calif. Filed Apr. 20, 1953.



The trade-mark is comprised of an artistic fictitious Assyrian head.
For Solvents and Diluents for Adhesives and Cements, Comprising Acetone, Toluene, and Hexane.
Claims use since Dec. 1, 1945.

Ser. No. 645,638. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Apr. 21, 1953.

SULFOXITE

Applicant claims ownership of Registration No. 201,598.
For Dye Reducing Agents, and Color Stripping Agents.
Claims use since Jan. 23, 1925.

Ser. No. 646,562. Mallinckrodt Chemical Works, St. Louis, Mo. Filed May 6, 1953.

Remox

For Rare Earth Oxide Compositions.
Claims use since Mar. 18, 1953.

Ser. No. 646,630. Sterling Drug Inc., New York, N. Y. Filed May 7, 1953.

SOLVESPERSE

For Dyestuffs Used in Printing on Textiles.
Claims use since Apr. 9, 1953.

Ser. No. 646,663. Geigy Company, Inc., New York, N. Y. Filed May 8, 1953.

TINEGAL

Applicant claims ownership of Registrations Nos. 436,189 and 431,874.
For Dyes and Dyestuffs for Levelling and Stripping Agents.
Claims use since Apr. 5, 1948.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 629,913. Presto Lighters Limited, Montreal, Quebec, Canada. Filed May 19, 1952.

BUTANAIR

Applicant claims ownership of Canadian Registration No. 39,335, dated Sept. 24, 19[illegible]
For Pocket and Table Cigarette Lighters.

Ser. No. 632,561. Galvanic Products Corporation, Valley Stream, N. Y. Filed July 15, 1952.

NOVOLITE

For Electrically Operated Cigarette Lighters.
Claims use since July 10, 1952.

Ser. No. 642,746. Robert G. Dyer, Philadelphia, Pa. Filed Feb. 25, 1953.

CIGARETTE *Caddie*

The word "Cigarette" is disclaimed apart from the trade-mark as shown.
For Clips To Be Attached to Golf Bags for Holding Cigars, Cigarettes, Pipes, and Similar Elongated Smokers' Articles.
Claims use since Sept. 19, 1952.

Ser. No. 646,191. World Merchandise Exchange & Trading Co. Inc., New York, N. Y. Filed Apr. 29, 1953.

SAMSON

For Pyrophoric Cigar and Cigarette Lighters.
Claims use since on or about Mar. 26, 1953.

Ser. No. 646,696. Eberhard Tigges, doing business as Tigges Lighter Mfg. Co., San Francisco, Calif. Filed May 8, 1953.

SNAPMATIC

For Cigarette Lighters.
Claims use since Dec. 15, 1950.

CLASS 10

FERTILIZERS

Ser. No. 634,867. F. Marshall Smith, Reading, Pa. Filed Sept. 4, 1952.

BAC TERRA

The word "Terra" is disclaimed apart from the mark as shown.
For Fertilizer.
Claims use since July 21, 1952.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 636,029. Porter and Brown Manufacturing Company, Salt Lake City, Utah. Filed Oct. 1, 1952.

Wee Scot

For Water Conditioning Device of the Nature of a Pipe-fitting Installable in Domestic or Industrial Water Supply Piping for Altering the Chemical Nature of the Water by Physical Contact of the Latter With the Material of the Walls of the Device.
Claims use since on or about Apr. 1, 1952.

Ser. No. 646,254. American Wire Fabrics Corporation, New York, N. Y. Filed May 1, 1953.

GOLD STRAND TEN

Applicant claims ownership of Registration No. 246,384.
For Screen Wire-Cloth.
Claims use since Apr. 9, 1953.

Ser. No. 646,270. Cecilware-Commodore Products Corp., New York, N. Y. Filed May 1, 1953. (Sec. 2f.)

CECILWARE

Applicant claims ownership of Registration No. 216,212.
For Tea and Coffee Urns.
Claims use since March 1925.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 614,679. Acme Aluminum Alloys, Inc., Dayton, Ohio. Filed June 4, 1951.



Applicant claims ownership of Registrations Nos. 439,020 and 439,021.
For Metallic Products of Manufacture Consisting of Cast, Fabricated, and Shaped Articles, Specifically Castings, Wire, Rod, Sheet, and Strip Material, Comprised of Aluminum Base Alloys.
Claims use since Jan. 9, 1946.

Ser. No. 628,369. Solar Steel Corporation, Cleveland, Ohio. Filed Apr. 19, 1952.

tinker-pak

For Carbon and Alloy Steels in an Assortment of Shapes.
Claims use since Apr. 1, 1951.

Ser. No. 632,498. American Brake Shoe Company, New York, N. Y. Filed July 14, 1952.

CHROMEFACE

Applicant claims ownership of Registrations Nos. 541,909, 509,608, and others.
For Bare and Coated Welding Rods.
Claims use since Dec. 15, 1948.

Ser. No. 638,339. The Vilter Manufacturing Co., Milwaukee, Wis. Filed Nov. 19, 1952.

VILTRITE

No claim is made to the exclusive use of the word "Metal" apart from the mark. Applicant claims ownership of Registration No. 397,464.
For Casting Metals and Metal Castings Such as Are Used in the Construction of Machinery, Engines, Motors, Compressors, Pumps, and Machine Tools, and Parts Thereof.
Claims use since in about March 1940.

Ser. No. 643,753. Bauer Alphabets Inc., New York, N. Y. Filed Mar. 17, 1953.

Horizon

For Printing Type.
Claims use since Mar. 9, 1953.

Ser. No. 648,212. Union Carbide and Carbon Corporation, New York, N. Y. Filed June 3, 1953.

DRIBURN

For Metal Alloy Welding Rods.
Claims use since on or about Mar. 12, 1953.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 605,646. De Soto Paint & Varnish Co., Memphis, Tenn. Filed Oct. 31, 1950. (Sec. 2f as to the words "DeSoto Super Var.")

DeSoto

SUPER VAR

Applicant claims ownership of Registration No. 209,407.
For Varnishes for Interior and Exterior Purposes.
Claims use since January 1935.

Ser. No. 628,172. Solar Varnish Corporation, Linden, N. J. Filed Apr. 16, 1952.

SOLDURA

The drawing is lined for yellow. Applicant claims ownership of Registration No. 531,434.
For Oil Base Paints and Synthetic Paints and Enamels.
Claims use since December 1949, as shown; and since in or about May 1920, as to the representation of the sun and the word "Soldura."

Ser. No. 639,906. John A. Steen Varnish Co., Chicago, Ill. Filed Dec. 22, 1952.

The lining on the drawing is part of the mark and is not used to indicate color.
For Paint, Varnish, Enamel, Lacquer, Stain, Varnish Undercoat.
Claims use since on or about July 3, 1952.

Ser. No. 645,650. International Paint Company, Inc., New York, N. Y. Filed Apr. 21, 1953.

CHLORSEAL

For Ready Mixed Paints and Enamels.
Claims use since Mar. 16, 1953.

Ser. No. 646,320. St. Louis Paint Manufacturing Company, doing business as Shurway Paint Mfg. Co., St. Louis, Mo. Filed May 1, 1953.

SHURWAY

The drawing is lined for red and yellow.
For Four-Hour Paint Enamel, House Paint, Floor Enamel, Varnishes, Creosote Paints; Brick, Stucco, and Masonry Paints; Flat Oil Paints, Aluminum Paints.
Claims use since January 1947.

Ser. No. 646,622. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed May 7, 1953.

BEELINE

For Liquid Pavement-Marking Compound Containing Glass Beads, for Application to Highway or Like Surfaces To Produce Thereon a Reflective Coating.
Claims use since at least as early as January 1953.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 642,799. Brown & Williamson Tobacco Corporation, Louisville, Ky. Filed Feb. 26, 1953.

Life

VITA MAGNA EST

No claim is made to the representation of the tobacco leaves or the slogan "Vita Magna Est" apart from the mark shown. Applicant claims ownership of Registrations Nos. 420,924, 378,055, and 515,908.
For Cigars, Cigarettes, Smoking Tobacco, Chewing Tobacco, and Snuff.
Claims use since Sept. 9, 1952, as to the mark shown; and since August 1924, as to the mark "Life."

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 612,740. Heyden Chemical Corporation, New York, N. Y. Filed Apr. 17, 1951.

MICROCILLIN

For Various Antibiotic Preparations Such as Penicillin Salt Preparations, Streptomycin and Dihydrostreptomycin Salt Preparations.
Claims use since July 13, 1950.

Ser. No. 613,503. Delmark Mfg. Co. Inc., New York, N. Y. Filed May 4, 1951.

ORA-SAL

No claim is made to the word "Sal" apart from the mark as shown in the drawing.
For Medicinal Preparation for the Treatment of Shock Incident to Burns, Fractures, Peritonitis, and Acute Anaphylactoid Reactions.
Claims use since Mar. 12, 1951.

Ser. No. 619,111. Carroll Dunham Smith Pharmacal Company, New Brunswick, N. J. Filed Sept. 21, 1951.

DERMASULF

For Liquid Preparation Used for Local Application in the Treatment of Skin Conditions To Alleviate Acne and Dandruff.
Claims use since Mar. 15, 1950.

Ser. No. 630,574. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed June 2, 1952.

CILLORETS

Applicant claims ownership of Registration No. 537,316.
For Penicillin Preparation in Candy Form.
Claims use since Jan. 28, 1952.

Ser. No. 631,041. Baxter Laboratories, Inc., Morton Grove, Ill. Filed June 11, 1952.

SERA-VAC

No claim is made to the word "Sera," apart from the mark as shown. Applicant claims ownership of Registrations Nos. 373,805 and 384,239.
For Isotonic Solution of Sodium Chloride for Parenteral Injection.
Claims use since July 2, 1940.

Ser. No. 631,631. Preston Laboratories, Inc., Chicago, Ill. Filed June 23, 1952.

7 DAY WONDERS

For Vitamin Containing Dietary Supplement in Tablet Form.
Claims use since Mar. 1, 1952.

Ser. No. 635,382. The Wander Company, Chicago, Ill. Filed Sept. 17, 1952.

DORCOL

For Cough Syrup.
Claims use since Sept. 4, 1952.

Ser. No. 637,389. John Sanford Nance, doing business under the firm name of The Nance Company, Charlotte, N. C. Filed Oct. 30, 1952. (Sec. 2f.)

Blue Caps

The drawing is lined for blue.
For Preparation for the Relief of Colds.
Claims use since Jan. 1, 1947.

Ser. No. 639,714. Parke, Davis & Company, Detroit, Mich. Filed Dec. 18, 1952.

INFATABS

Applicant claims ownership of Registration No. 521,225.
For Soft Chewing Tablets Especially Adapted for Pediatric Use and Containing as a Medicinal Agent (1) an Analgesic Such as Aspirin or (2) an Anticonvulsant Such as Diphenylhydantoin.
Claims use since May 27, 1948.

Ser. No. 641,259. Byk-Gulden Lomberg Chemische Fabrik G. m. b. H., Constance, Germany. Filed Dec. 17, 1952.

Rectocardon

Applicant claims ownership of German Registration No. 619,776, dated May 2, 1952.
For Medications, Chemical Products for Healing Purposes and Health Care, Pharmaceutical Drugs Used in the Treatment of Diseases of the Heart, and More Particularly, Preparation for the Treatment of Angina Pectoris and Related Conditions of Acute and Chronic Coronary Insufficiencies on the Basis of Functional as Well as Organic Coronary Vessel Changes, and Rectal Treatment of All Stenocardiac Disorders and Heart Infarcts, and Climacteric Disorders.

Ser. No. 642,223. Hormo-Pharma Limited, London, England. Filed Feb. 13, 1953.

OKASA

Applicant claims ownership of British Registration No. 520,234, dated Aug. 16, 1930.

For Tonic Medicine in Tablet Form To Increase Physical and Mental Strength and for Treating General Debility.

Claims use since 1912.

Ser. No. 644,452. Process Laboratories, Inc., New York, N. Y. Filed Mar. 30, 1953.

PYRACIL

For Dermatological Ointment.

Claims use since Mar. 12, 1952.

Ser. No. 644,919. Mead Johnson & Company, Evansville, Ind. Filed Apr. 8, 1953.

Sustagen

For Pharmaceutical Preparation Containing Essential Food Constituents, Minerals, and Vitamins, for Tube and Other Feeding.

Claims use since Jan. 6, 1953.

Ser. No. 645,043. Ilon Chemische Industrie G. m. b. H., Freiburg-Littenweiler/Br., Germany. Filed Apr. 10, 1953.

CHOLAGILON

Applicant claims ownership of German Registration No. 446,665, dated June 30, 1932.

For Chemical and Pharmaceutical Preparations for Use in the Treatment of Gall and Liver Ailments and Disturbances and for Treating Indigestion.

Ser. No. 646,714. Abbott Laboratories, North Chicago, Ill. Filed May 11, 1953.

SYRUP CITREX

No claim is made to the word "Syrup" apart from the mark shown in the drawing.

For Cough Syrup.

Claims use since Mar. 20, 1930.

Ser. No. 646,800. Organon Inc., Orange, N. J. Filed May 11, 1953.

Egraine

For Protein Material of Plant Origin for Use in Pharmaceutical Preparations for Its Binding, Protective, Coating, and Adsorptive Properties.

Claims use since Feb. 15, 1953.

Ser. No. 646,873. Irwin, Neisler & Company, Decatur, Ill. Filed May 12, 1953.

Duogastran

For Medicinal Tablets for the Treatment of Anemia.

Claims use since Apr. 16, 1953.

Ser. No. 646,915. Allied Laboratories, Inc., Kansas City, Mo. Filed May 13, 1953.

VERALBA

For Therapeutic Composition for the Control of Hypertension.

Claims use since Oct. 15, 1952.

Ser. No. 646,916. American Cyanamid Company, New York, N. Y. Filed May 13, 1953.

STYLOMYCIN

For Antibiotic.

Claims use since Apr. 20, 1953.

Ser. No. 647,063. Chemical Industries, Incorporated, New York, N. Y. Filed May 15, 1953.

DIGIDERM

For Preparation for the Treatment of Athlete's Foot.

Claims use since May 6, 1953.

Ser. No. 647,105. Smith Kline & French Laboratories, Philadelphia, Pa. Filed May 15, 1953.

DAPRISAL

For Analgesic Preparation.

Claims use since Feb. 9, 1953.

Ser. No. 647,265. Chase Chemical Company, Newark, N. J. Filed May 19, 1953.

DuraVite

For Multivitamin Preparation.

Claims use since Nov. 3, 1952.

Ser. No. 647,350. Guardian Chemical Corporation, Long Island City, N. Y. Filed May 20, 1953.

Foroxin

For Remedy for Athlete's Foot.

Claims use since Feb. 10, 1953.

CLASS 19

VEHICLES

Ser. No. 613,604. Patterson-Sanders Company, Tulsa, Okla., assignor to Patterson-Sanders Company, Tulsa, Okla., a corporation. Filed May 7, 1951.



The words "Club Buggy" and the representation of the golf bag and clubs are disclaimed except as part of the mark as shown.

For Gasoline Powered Three Wheel Vehicle, Adapted To Be Driven Over a Golf Course for Carrying Golf Bags and Other Items of Golfing Equipment.

Claims use since Mar. 20, 1951.

Ser. No. 631,766. Harold R. Turner, Ipswich, Mass. Filed June 25, 1952.



For Sail Boats.

Claims use since December 1949.

Ser. No. 635,965. Green Thumb Products, Toledo, Ohio. Filed Sept. 30, 1952.

GREEN THUMB

For Wheelbarrows and Lawn Carts.

Claims use since Sept. 3, 1952.

Ser. No. 639,770. Packard Motor Car Company, Detroit, Mich. Filed Dec. 19, 1952.

CARIBBEAN

For Vehicles—Namely, Passenger Automobiles.

Claims use since on or about Dec. 1, 1952.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 634,436. Armstrong Cork Company, Lancaster, Pa. Filed Aug. 26, 1952.

VINOWALL

Applicant claims ownership of Registration No. 299,122

For Flexible Plastic Wall Covering.

Claims use since Aug. 15, 1952.

Ser. No. 645,761. Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa., assignor to Congoleum-Nairn, Inc., Kearny, N. J., a corporation of New York. Filed Apr. 17, 1953. (Sec. 2f.)

MARBLETONE

For Hard Surface Linoleum Floor Covering.

Claims use since Jan. 5, 1937.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 629,825. Skiatron Electronics & Television Corporation, New York, N. Y. Filed May 16, 1952.

Skiatron

For Cathode Ray Tubes and Television Broadcasting and Receiving Equipment for Scrambled Television Transmission and Reception.

Claims use since Aug. 1, 1942.

Ser. No. 630,313. Cook Electric Company, Chicago, Ill. Filed May 27, 1952.

Uniterm

For Electric Terminals.

Claims use since as early as July 20, 1951.

Ser. No. 634,090. Kohler Co., Kohler, Wis. Filed Aug. 18, 1952. (Sec. 2f.)

KOHLER of KOHLER

Applicant claims ownership of Registrations Nos. 167,671 and 255,600.

For Electric Generating Plants.

Claims use since Feb. 20, 1925.

Ser. No. 635,407. Crescent Valve Company, El Monte, Calif. Filed Sept. 18, 1952.

CRESCENT

For Solenoid Controlled Valve Units for Pressure Fluids.

Claims use since on or about Mar. 18, 1948.

Ser. No. 636,072. Elox Corporation of Michigan, Clawson, Mich. Filed Oct. 2, 1952.

ELOX

Applicant claims ownership of Registration No. 412,627.
For Electrical Disintegrating Machines for Disintegrating Metals and Accessories Therefor—Namely, Transformers, Controls, Electrodes, Power Packs, Servo-Mechanisms, and Dielectric Fluid.
Claims use since on or about Jan. 11, 1944.

Ser. No. 636,983. Ilsco Copper Tube & Products, Inc., Cincinnati, Ohio. Filed Oct. 22, 1952.

LOK-A-BLOK

For Electrical Terminal Blocks.
Claims use since Oct. 6, 1952.

Ser. No. 640,362. Standard Wire and Cable Company, Los Angeles, Calif. Filed Jan. 5, 1953.

STANCOTE

For Plastic Insulated Wire for Electrical Use.
Claims use since Apr. 2, 1952.

Ser. No. 640,363. Standard Wire and Cable Company, Los Angeles, Calif. Filed Jan. 5, 1953.

STANDUR

For Neoprene Covered Portable Cable for Electrical Use.
Claims use since Apr. 2, 1952.

Ser. No. 640,364. Standard Wire and Cable Company, Los Angeles, Calif. Filed Jan. 5, 1953.

STANFLEX

For Portable Rubber Covered Electrical Cable.
Claims use since Apr. 2, 1952.

Ser. No. 646,759. Globe-Union Inc., Milwaukee, Wis. Filed May 11, 1953.

COMPENTROL

For Unit Comprising a Variable Resistance and a Printed Electronic Circuit Network for Use in Controlling the Audio Output of Amplifiers, Radios, and Television Sets.
Claims use since Oct. 13, 1952.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 606,599. Roger H. David, St. Paul, Minn. Filed Nov. 18, 1950.

MASTER EYE

For Mirror for Use in Practicing Golf Swing.
Claims use since June 20, 1950.

Ser. No. 632,464. Charles I. Burke, doing business under the assumed name Burke Flexo-Products Company, Traverse City, Mich. Filed July 12, 1952.

FLEXO-LURE

No claim is made to the word "Lure" apart from the mark shown.
For Artificial Fish Lures.
Claims use since Mar. 21, 1950.

Ser. No. 635,589. Educational Cards, Inc., Detroit, Mich. Filed Sept. 22, 1952.

WORD RUMMY

The word "Rummy" is disclaimed apart from the mark.
For Educational Card Game.
Claims use since July 25, 1952.

Ser. No. 635,608. Michael F. Murray, Eugene, Oreg. Filed Sept. 22, 1952.

THE "NEON MICKEY" LIGHTS AS IT SWIMS

No claim is made to the words "The Neon," "Lights As It Swims" and such words are disclaimed apart from the mark as shown.
For Fishing Plug.
Claims use since May 20, 1952.

Ser. No. 635,986. Wales Game Systems, Inc., Buffalo, N. Y. Filed Sept. 30, 1952.



The word "Games" is disclaimed apart from the mark as shown.
For Board Games Played With Movable Game Pieces.
Claims use since Mar. 10, 1952.

Ser. No. 637,308. G & G Company, Perkiomenville, Pa. Filed Oct. 29, 1952.



For Insulated Bait Box.
Claims use since Aug. 4, 1952.

Ser. No. 650,910. Manhattan Kreole Prod. Inc., doing business as Sani-Seal Labs., New York and Brooklyn, N. Y. Filed July 27, 1953.



For Liquid Bubble Solution Used by Children To Blow Bubbles.
Claims use since the year 1947.

Ser. No. 651,490. Adanta Novelties Corp., New York, N. Y. Filed Aug. 7, 1953.

Yasmin

For Dolls.
Claims use since Feb. 15, 1950.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 625,936. The Wickes Corporation, Saginaw, Mich. Filed Mar. 4, 1952.

GRAPHITAR

Applicant claims ownership of Registration No. 358,675.
For Molded Carbon Products—Namely, Machinery Bearings, Pump Vanes, Thrust Washers, Pistons, and Bushings for Industrial Machinery.
Claims use since Jan. 13, 1938.

Ser. No. 634,177. Otto John Wolf, Toronto, Ontario, Canada. Filed Mar. 26, 1953.

Wolfs Cyclotron

For Intake and Exhaust Manifold Attachments Used in Conjunction With Carburetors for Admitting Fluid Materials Into Internal Combustion Engines To Improve Performance.
Claims use since Feb. 7, 1952.

Ser. No. 644,391. Calumet and Hecla, Inc., Calumet, Mich. Filed Mar. 30, 1953.



For Drill Bits.
Claims use since July 25, 1952.

Ser. No. 644,885. The Will-Burt Company, Orrville, Ohio. Filed Apr. 7, 1953.

VERSA-VISE

The word "Vise" is disclaimed apart from the mark as shown.
For Bench Vises—Namely, Wood Working Vises.
Claims use since Feb. 7, 1950.

Ser. No. 645,471. Diamond Saw Works, Inc., Buffalo, N. Y. Filed Apr. 17, 1953.

TRI-TEMP

For Metal Cutting Saw Blades.
Claims use since July 15, 1946.

Ser. No. 646,016. Reed Roller Bit Company, Houston, Tex. Filed Apr. 27, 1953.

COBRA

For Drill Bits.
Claims use since Oct. 1, 1952.

Ser. No. 646,466. Ellicott Machine Corporation, Baltimore, Md. Filed May 5, 1953. (Sec. 2f.)

ELLICOTT

For Dredges and Parts Thereof.
Claims use since Apr. 12, 1929.

Ser. No. 646,467. Ellicott Machine Corporation, Baltimore, Md. Filed May 5, 1953.

DRAGON

For Hydraulic Dredges and Parts Thereof.
Claims use since Apr. 15, 1953.

CLASS 25

LOCKS AND SAFES

Ser. No. 643,369. Protectall Safe Corp., Syracuse, N. Y. Filed Mar. 9, 1953.



For Fire Resistant Safes.
Claims use since December 1947.

Ser. No. 648,523. The American Hardware Corporation, New Britain, Conn. Filed June 10, 1953.

The Defender

For Locks.
Claims use since Apr. 6, 1953.

Ser. No. 648,772. The Mosler Safe Company, Hamilton, Ohio. Filed June 15, 1953.

COUNTER SPY

For Locks for Safes.
Claims use since on or about May 15, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 622,936. Fred H. Higgins, Casper, Wyo. Filed Dec. 28, 1951.

TIME STICK

No claim is made to the word "Time" except in combination with the mark as shown.
For Slide Rule for Computing Wages and Hours Worked for Workmen.
Claims use since May 23, 1951.

Ser. No. 627,950. Kay Electric Company, Pine Brook, N. J. Filed Apr. 11, 1952.

ROTALYZER

For Instrument for Electronically Measuring or Sensing Variations in Speed Which Cyclic Variations Can Be Viewed on an Oscilloscope.
Claims use since November 1951.

Ser. No. 635,411. Dictaphone Corporation, Bridgeport, Conn. Filed Sept. 18, 1952.

DICTAPHONE

Applicant claims ownership of Registration No. 236,488.
For Calibrated Indicator Slip Pads for Use With Dictating Machines.
Claims use since Sept. 3, 1907.

Ser. No. 645,101. Bruin Industries, Colorado Springs, Colo. Filed Apr. 13, 1953.

Floragarde

For Moisture Indicators—Namely, Sticks of Porous Material Carrying a Chemically Treated Plastic Strip.
Claims use since on or about Sept. 28, 1951.

Ser. No. 645,700. Eugene Dietzgen Co., Chicago, Ill. Filed Apr. 22, 1953.

Primatrig

For Calculating Devices—Namely, Slide Rules.
Claims use since on or about Apr. 1, 1953.

Ser. No. 645,731. Rel Plastics Corporation, East Paterson, N. J. Filed Apr. 22, 1953.

REL

For Sunglasses.
Claims use since May 1, 1951.

Ser. No. 645,732. Rel Plastics Corporation, East Paterson, N. J. Filed Apr. 22, 1953.

Relites

For Sunglasses.
Claims use since Nov. 1, 1952.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 628,002. Jerclaydon, Inc., Miami Beach, Fla. Filed Apr. 12, 1952.

GLAMORENE

For Fibre Brushes Adapted for Use in Connection With Rugs, Carpets, Nap Fabrics, and for Scrubbing Purposes.
Claims use since October 1951.

Ser. No. 638,751. Joseph C. Woodford, Ferrysburg, Mich. Filed Nov. 28, 1952.

GLOSSER

For Hand Sweeping Device Comprised of a Handle Member Having at Its Lower End a Cross Member Provided With a Resilient Sweeping Blade Member.
Claims use since Apr. 29, 1952.

Ser. No. 640,731. Empire Brushes, Inc., Port Chester, N. Y. Filed Jan. 14, 1953.

Junior Deb

For Hair Brushes, Nail Brushes, Clothes Brushes, Bath Brushes, and Complexion Brushes.
Claims use since Dec. 30, 1951.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 595,961. Ionia Manufacturing Company, Ionia, Mich. Filed Apr. 19, 1950.

IMPOLITE PLASTIC

Applicant disclaims the word "Plastic," apart from its association with the mark as shown.
For Components of Refrigerator Cabinets Molded From Plastic Material.
Claims use since Nov. 17, 1949.

Ser. No. 644,053. Motor Products Corporation, Detroit, Mich., and North Chicago, Ill. Filed Mar. 23, 1953.

ELECTROMATIC

For Automatic Defrosting Refrigerator and Automatic Defrosting System.
Claims use since Oct. 20, 1952.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 600,322. A. Brandwein & Company, Chicago, Ill. Filed July 7, 1950.

Osteo-Firm

The word "Firm" is disclaimed apart from the mark.
For Mattresses.
Claims use since May 8, 1950.

Ser. No. 616,797. Kroehler Mfg. Co., Naperville, Ill. Filed July 23, 1951.

"DESIGNER'S GROUP"

No claim is made to the exclusive use of the word "Group" apart from the mark shown in the drawing.
For Upholstered Sofas and Upholstered Chairs.
Claims use since June 18, 1951.

Ser. No. 629,207. The Kaymet Company, London, England. Filed May 5, 1952.

KAYMET

The words "Anodised Ware" and "London" are disclaimed apart from the mark as shown in the drawing.
For Serving Wagons and Carts for Food and Beverages.
Claims use since October 1945; and since February 1947, in commerce between Great Britain and the United States.

Ser. No. 636,943. Rockline Mfg. Co. Inc., Brooklyn, N. Y. Filed Oct. 21, 1952.

SNACKEROO

For Snack Tables, Hanging Shelves, and Serving Carts.
Claims use since July 5, 1951.

Ser. No. 642,738. Douglas Furniture Corporation, Chicago, Ill. Filed Feb. 25, 1953.

Doug-FOAM

The word "Foam" is disclaimed apart from the mark. The lining in the drawing is for shading purposes only.
Applicant claims ownership of Registration No. 537,140.
For Kitchen and Dinette Chairs.
Claims use since Nov. 3, 1952.

Ser. No. 642,989. Peerless Steel Equipment Company, Philadelphia, Pa. Filed Mar. 2, 1953.

QUAKER

For Steel Office Furniture—Namely, Filing Cabinets, Desks, Tables, and Chairs.
Claims use since Feb. 13, 1953.

Ser. No. 643,263. American Manufacturing Concern, Falconer, N. Y. Filed Mar. 9, 1953.



The word "American" is disclaimed apart from the mark as shown.
For Bedroom Furniture—Namely, Beds, Chests, Desk Chests, Chests on Chests, Dressers, Double Dressers, Vanities, Powder Tables, Night Stands, and Benches.
Claims use since Mar. 31, 1951.

Ser. No. 643,264. American Manufacturing Concern, Falconer, N. Y. Filed Mar. 9, 1953.



Applicant claims ownership of Registration No. 576,506.
For Bedroom Furniture—Namely, Beds, Chests, Desk Chests, Chests on Chests, Dressers, Double Dressers, Vanities, Powder Tables, Night Stands, and Benches.
Claims use since Mar. 31, 1951.

Ser. No. 644,428. Marie-Designer, Inc., Hollywood, Calif. Filed Mar. 30, 1953.



The portrait forming a part of the trade-mark is that of Marie A. LeDoux, president of applicant corporation, whose consent is of record. The words "Chair" and "Hollywood" are specifically disclaimed. The word "Designer" is disclaimed apart from the mark as shown.

For Chairs.

Claims use since Mar. 10, 1953.

Ser. No. 645,615. Aurora Equipment Company, doing business as Equipto, Aurora, Ill. Filed Apr. 2, 1953.

LITTLE GEM

For Metal Drawer Cabinets.

Claims use since Feb. 16, 1953.

Ser. No. 646,291. Jack S. Karpen, Inc., New York, N. Y. Filed May 1, 1953.

VERTA-RESTER

For Chairs.

Claims use since Apr. 22, 1953.

Ser. No. 646,294. Los Angeles Period Furniture Manufacturing Company, Los Angeles, Calif. Filed May 1, 1953.

SLEEPY HOLLOW

For Bedroom Furniture, Comprising Beds, Dressing Tables, Chairs, Night Stands, Bureaus, and Chests of Drawers.

Claims use since on or about Oct. 8, 1952.

CLASS 37

PAPER AND STATIONERY

Ser. No. 639,223. Goldsmith Bros., New York, N. Y. Filed Dec. 9, 1952.

Pinrite

For Partially Printed Pin-Tickets.

Claims use since Nov. 17, 1952.

Ser. No. 640,164. Ernest O. Manville, Inc., New York, N. Y. Filed Dec. 30, 1952.

Intermezzo

For Note Paper and Correspondence Envelopes.

Claims use since Dec. 9, 1952.

Ser. No. 640,486. Western Tablet & Stationery Corporation, Dayton, Ohio. Filed Jan. 7, 1953.

WESTAB

Applicant claims ownership of Registrations Nos. 107,991 and 301,858.

For Paper Tablets; Account, Data, and Order Books; Loose Writing Paper for School or Office Use Put Up in Wrapped Packages, Boxes, or Banded; Loose Paper for Drawing and Other Art Purposes Put Up in Wrapped Packages, Boxes, or Banded; Papeteries, i. e., Stationery Comprising Envelopes and/or Paper Either Flat or Folded Put Up in Boxes, Portfolios, or Banded Packages; Correspondence and Mailing Envelopes; Loose Leaf Binders; Paper Packets and Folders for Loose Paper; Index Cards or Guides; and Scrap Books, Photograph and Autograph Albums, and Refills Therefor.

Claims use since 1914.

Ser. No. 643,420. The Gummed Products Company, Troy, Ohio. Filed Mar. 10, 1953.

FIREBIRD

For Heat Seal Papers.

Claims use since Dec. 11, 1951.

Ser. No. 643,421. The Gummed Products Company, Troy, Ohio. Filed Mar. 10, 1953.



The drawing is lined to indicate the color red.

For Heat Seal Papers.

Claims use since Dec. 11, 1951.

Ser. No. 643,508. Sherman Paper Products Corporation, Newton, Mass. Filed Mar. 11, 1953.

Shu-wrap

The word "Wrap" is disclaimed apart from the mark as shown on the drawing.

For Corrugated Paper for Wrapping Automotive Parts.

Claims use since Dec. 11, 1952.

Ser. No. 643,687. David Kahn, Inc., North Bergen, N. J. Filed Mar. 16, 1953.

FLIPIT

For Writing Instruments—Namely, Fountain Pens, Ball Point Pens, Lead Pencils, and Mechanical Pencils.

Claims use since Mar. 6, 1953.

Ser. No. 645,704. Fort Howard Paper Company, Green Bay, Wis. Filed Apr. 22, 1953.

TABNAPS

For Paper Napkins.

Claims use since Mar. 13, 1953.

Ser. No. 645,712. International Cellucotton Products Company, Chicago, Ill. Filed Apr. 22, 1953.

Veldown

Applicant claims ownership of Registrations Nos. 254,162, 360,998, and 432,836.

For Paper Table Napkins.

Claims use since Feb. 5, 1953.

Ser. No. 645,949. Harold P. Braun, doing business as Brownie Company, Grand Rapids, Mich. Filed Apr. 27, 1953.

EXPENVELOPE

For Envelopes Having Printed Portions Designed To Constitute a Record of Expenses.

Claims use since Apr. 18, 1953.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 598,580. Farm Bureau Mutual Automobile Insurance Company, Columbus, Ohio. Filed June 5, 1950.

MINUTES

For Insurance Company House Organ.

Claims use since Sept. 20, 1949.

Ser. No. 635,802. Aktiebolaget Multi-Divi, Vikarbyn, Sweden. Filed Sept. 26, 1952.

Multi-Divi

Applicant claims ownership of Swedish Registration No. 39,138, dated Aug. 18, 1953.

For Bound Books Containing Calculating Tables, Issued in a Series.

Claims use since Dec. 15, 1916; and since Mar. 31, 1923, in commerce among the several States of the United States.

Ser. No. 643,113. Nederlands Instituut voor de Publieke Opinie, also trading under the style of Instituut voor Marktverkenning, Amsterdam, Netherlands. Filed Mar. 4, 1953.

NIPO

Applicant claims ownership of Dutch Registration No. 110,874, dated Dec. 17, 1951.

For Books, Booklets, Leaflets, Pamphlets, Magazines, and Articles as Well as Periodicals and Reports Relating to Investigations of Public Opinion as Well as Concerning Social, Economical, Political, Statistical, Religious, Technical, Psychological, Socio-Psychological, and Hygienic Problems With Regard to Subjects of Art, Agriculture, and Horticulture, Forestry, Cattle-Breeding, and Fishery and in Connection With Market Investigation and Publicity.

Ser. No. 644,779. Norden Laboratories, Lincoln, Nebr. Filed Apr. 6, 1953. (Sec. 2f.)

Norden News

For House Organ Published Bimonthly.

Claims use since on or about Jan. 1, 1928.

Ser. No. 644,827. Bronze Ego Publishers, Inc., Chicago, Ill. Filed Apr. 7, 1953.

BRONZE EGO

For Magazine.

Claims use since Mar. 25, 1953.

Ser. No. 645,076. H. H. Schumacher, doing business as B-Z-B Honey Company, Alhambra, Calif. Filed Apr. 10, 1953.

Nature in Things

For Periodical Column or Feature.

Claims use since Feb. 26, 1953.

Ser. No. 646,569. Norcross, Inc., New York, N. Y. Filed May 6, 1953.

candy

For Greeting Cards and Printed Greeting Folders.

Claims use since on or about Apr. 9, 1953.

Ser. No. 646,672. Junior Readers Guild, Inc., New York, N. Y. Filed May 8, 1953.

CHILDREN'S VERY OWN

For Magazines.
Claims use since Mar. 1, 1953.

Ser. No. 646,752. The Garrett Corporation, Los Angeles, Calif. Filed May 11, 1953.

AiREPORTER

Applicant claims ownership of Registration No. 412,094.
For Monthly Publication Containing Items Principally of Interest to Applicant's Employees.
Claims use since Feb. 20, 1946.

CLASS 39

CLOTHING

Ser. No. 610,077. Karchmar Company, Inc., New York, N. Y. Filed Feb. 14, 1951.

Slick and Slim

For Women's and Girls' Hosiery.
Claims use since March 1950.

Ser. No. 617,452. Martin Brothers Company, Minneapolis, Minn. Filed Aug. 8, 1951.



The drawing is lined for red. No claim is made to the exclusive use of the word "Coat" or to the descriptive expression "Storm Coat to Spring Coat," aside from the mark as shown.
For Ladies' Coats.
Claims use since May 10, 1951.

Ser. No. 643,878. Steiner-Lobman Dry Goods Company, Montgomery, Ala. Filed Feb. 27, 1953.

Polly

Applicant claims ownership of Registration No. 238,795.
For Overalls, Work Pants, Coveralls, and Work Shirts for Men and Boys.
Claims use since Sept. 1, 1926.

Ser. No. 643,979. Samuel E. Schlein, Inc., doing business under the name Westbrooke Clothes, New York, N. Y. Filed Mar. 20, 1953.

STYLEORAMA

For Men's and Young Men's Outer Wearing Apparel—Namely, Sport Jackets, Suits, and Topcoats.
Claims use since Mar. 2, 1953.

Ser. No. 644,180. Manhattan Undergarment Co. Inc., New York, N. Y. Filed Mar. 25, 1953. (Sec. 2f.)

newform

Applicant claims ownership of Registration No. 344,914.
For Ladies' Underwear—Namely, Slips and Petticoats.
Claims use since Jan. 2, 1935.

Ser. No. 644,499. Florida Fashions, Inc., Orlando, Fla. Filed Mar. 31, 1953.

Susan Sanford

The name "Susan Sanford" is fanciful. Applicant claims ownership of Registration No. 397,610.
For Ladies' and Children's Dresses and Coats.
Claims use since Apr. 15, 1941.

Ser. No. 644,576. The Strouse, Adler Company, New Haven, Conn. Filed Apr. 1, 1953.

Smoothie FINESSE

Applicant claims ownership of Registration No. 305,541.
For Foundation Garments—Namely, Girdles.
Claims use since Feb. 1, 1953.

Ser. No. 644,674. M. K. M. Hosiery Mills, Inc., Boston and Jamaica Plain, Boston, Mass. Filed Apr. 3, 1953.

Tiara

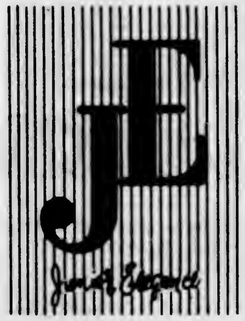
Applicant claims ownership of Registrations Nos. 562,783, 562,812, and 568,529.
For Ladies' Hosiery.
Claims use since July 31, 1950.

Ser. No. 645,020. Wayne L. Troutner, Winslow, Ariz. Filed Apr. 9, 1953.



No claim is made to the words "For Men" apart from the mark as shown on the drawing.
For Men's Clothing—Namely, Slacks, Sport Jackets, Sport Coats, Sport and Negligee Shirts, Suits, Sweaters, and Jackets.
Claims use since Jan. 1, 1953.

Ser. No. 645,551. Darlene Juniors, Incorporated, Decatur, Ill. Filed Apr. 20, 1953.



The words "Junior" and "Elegance" are disclaimed apart from the mark except as shown in the drawing. The vertical lines of the background in the drawing represent gold color, the words "Junior Elegance" in the background represent black color, the vertical lines within the large letter "J" represent red color, and the cross hatching lines within the large letter "E" represent black color.
For Women's and Girls' Dresses.
Claims use since Feb. 2, 1953.

Ser. No. 645,626. Lee Begman, Inc., New York, N. Y. Filed Apr. 21, 1953.

NYLO-SKIN

For Ladies' Gloves Made of Fabric Material.
Claims use since December 1952.

Ser. No. 645,627. Lee Begman, Inc., New York, N. Y. Filed Apr. 21, 1953.

ORLO-VENT

No claim is made to the word "Vent" apart from the mark shown on the drawing.
For Ladies' Gloves Made of Fabric Material.
Claims use since December 1952.

Ser. No. 646,137. Kantor-Barber, New York, N. Y. Filed Apr. 29, 1953.

KASHBARA

For Ladies' Coats and Suits.
Claims use since Mar. 1, 1953.

Ser. No. 646,138. Kantor-Barber, New York, N. Y. Filed Apr. 29, 1953.

ZIBANA

For Ladies' Coats and Suits.
Claims use since Mar. 1, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 613,816. Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also doing business under the name "Koh-I-Noor United Metal Ware Factories, National Corporation," Prague, Czechoslovakia. Filed May 12, 1951.

PAMIRA

Priority under Sec. 44(d). Czech Registration No. 150,420, filed Jan. 13, 1951.
For Closures and Fasteners Made From Non-Precious Metals for Wearing Apparel—Namely, Buttons, Snap Fasteners, Buckles, Hook and Eye Fasteners, Shoe Rings; Crochet Hooks and Crochet Needles; Hand Knitting and Netting Needles; Mending and Darning Needles; Needles for Hand-Sewing; Bodkins; Thimbles; Combs, Collar Studs; Pins and Clips Made From Non-Precious Metals—Namely, Safety Pins, Hairpins, Hatpins, Scarf Pins, Bobby Pins, Barrettes, and Hair Grips.

Ser. No. 636,909. F. W. Woolworth Co., New York, N. Y. Filed Oct. 20, 1952.

Susan Smart

The name "Susan Smart" is fanciful.
For Bob Pins.
Claims use since Sept. 23, 1952.

Ser. No. 645,859. Bellsle's Pin-Whiz Co., Wichita, Kans. Filed Apr. 24, 1953.

PIN-WHIZ

The word "Pin" is hereby disclaimed apart from the mark as shown in the drawing.
For Bobby Pin Dispenser.
Claims use since Feb. 1, 1953.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 636,646. M. Lowenstein & Sons, Inc., New York, N. Y. Filed Oct. 15, 1952.

Revelaise

For Cotton and/or Rayon Piece Goods and/or Combinations Thereof.
Claims us since Sept. 16, 1952.

Ser. No. 639,696. August L. Franke, doing business under the name Q-W Laboratories, Plainfield, N. J. Filed Dec. 18, 1952.

Quettes

For Face Cloths.
Claims use since Oct. 1, 1951.

Ser. No. 644,022. Erwin Mills, Inc., Durham, N. C. Filed Mar. 23, 1953. (Sec. 2f.)

ENDURANCE

For Bed Sheets and Pillow Cases.
Claims use since Mar. 5, 1926.

Ser. No. 646,246. Weartex Rug Company, Oakland, Calif. Filed Apr. 30, 1953.

WEARTEX

Applicant claims ownership of Registration No. 149,738.
For Braided and Woven Cotton and Wool Rugs.
Claims use since Jan. 1, 1921.

Ser. No. 646,611. D. B. Fuller & Co. Inc., New York, N. Y. Filed May 7, 1953.

Wavechene

Applicant claims ownership of Registrations Nos. 570,733 and 570,734.
For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since Nov. 26, 1951.

Ser. No. 647,078. La France Industries, Inc., Wilmington, Del., and New York, N. Y. Filed May 15, 1953.

PILLOW-PUFF

For Textile Fabrics of Cotton and Synthetic Fibres.
Claims use since Aug. 26, 1952.

Ser. No. 647,700. Leeds Ltd. Coats, Inc., New York, N. Y. Original filed, act of 1946, Supplemental Register, May 26, 1953; amended to application, Principal Register, Aug. 19, 1953.

Kingsdale

Applicant claims ownership of Registrations Nos. 408,595 and 405,992.
For Woolen and Worsted Fabrics in the Piece.
Claims use since Apr. 11, 1942.

Ser. No. 647,837. Denis-Marcus, Inc., New York, N. Y. Filed May 28, 1953.

Whitecap

For Textile Fabrics of Silk and Synthetic Fibers.
Claims use since Feb. 26, 1953.

Ser. No. 647,858. Martin Fabrics Corporation, New York, N. Y. Filed May 28, 1953.

INVEL

For Velvet and Pile Fabrics in the Piece, Made of Silk, Wool, Cotton, and Synthetic Fibers.
Claims use since October 1949.

CLASS 43

THREAD AND YARN

Ser. No. 635,080. Allied Chemical & Dye Corporation, New York, N. Y. Filed Sept. 10, 1952.

A-C

For Synthetic Thread Filaments and Synthetic Yarn.
Claims use since June 16, 1952.

Ser. No. 636,354. I. Fleischer & Sons, Cincinnati, Ohio. Filed Oct. 8, 1952. (Sec. 2f.)

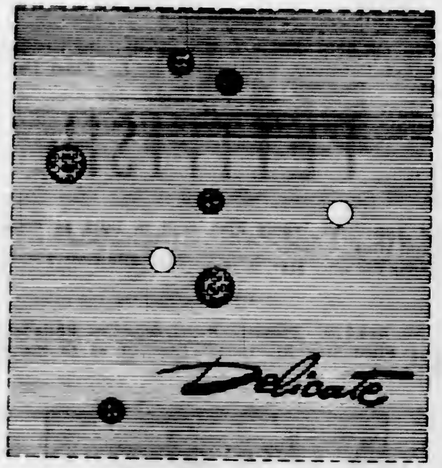
FINISHING Fleischer's THREAD

Applicant disclaims the words "Best" and "Thread." For Thread.
Claims use since Jan. 1, 1922.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 623,595. Delicat, Inc., New York, N. Y., assignor to Compressed Products Corporation, New York, N. Y., a corporation of Nevada. Filed Jan. 15, 1952.



The drawing is lined for blue and gold. The drawing represents the front portion of the package of the goods and the design extends around the container for the goods No claim is made to color nor to the package of the goods
For Sanitary Napkins.
Claims use since Dec. 7, 1951.

Ser. No. 627,649. The Sponge Rubber Products Company, Shelton, Conn. Filed Apr. 5, 1952.

SPONGEX

Applicant claims ownership of Registrations Nos. 300,788, 321,895, and others.
For Artificial Respiration Collars for Use as a Sealing Device in Automatic Respirators and Fitted About the Patient's Neck To Prevent Pressure Leakage.
Claims use since Jan. 22, 1952.

Ser. No. 642,358. Richard G. Krueger, Inc., New York, N. Y. Filed Feb. 17, 1953.

MASTER KEY

Applicant claims ownership of Registration No. 536,726.
For Babies' Teethers.
Claims use since Oct. 1, 1952.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 609,390. Bo-Mar Products, Inc., Union City, N. J. Filed Jan. 30, 1951.



The word "Mixer" is disclaimed apart from the mark as shown.
For Fruit-Flavored, Non-Alcoholic Maltless Syrups, Concentrates, and Extracts Used in Mixing Non-Alcoholic Drinks.
Claims use since Jan. 17, 1951.

Ser. No. 625,715. Chocolate Products Company, Chicago, Ill. Filed Feb. 29, 1952.

SUNBURST

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks; and Syrups, Extracts, and Concentrates for Making the Same.
Claims use since June 10, 1934.

Ser. No. 629,936. Fred Fear & Co., Brooklyn, N. Y. Filed May 20, 1952.

Piggy Bank

For Flavored Syrups Used in the Preparation of Non-Alcoholic Maltless Soft Drinks.
Claims use since May 6, 1952.

Ser. No. 644,116. Hines-Park Foods, Inc., Ithaca, N. Y. Filed Mar. 24, 1953.

Duncan Hines

The mark consists of the facsimile signature of Duncan Hines, whose consent is of record.
For Grape Juice.
Claims use since July 1, 1949.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 570,347. Zion Industries, Inc., Zion, Ill. Filed Dec. 10, 1948. (Sec. 2f.)

Zion

Nifty Pax

Applicant claims ownership of Registrations Nos. 423,410 and 564,266.

For Candies.

Claims use since 1936.

Ser. No. 581,513. Ada Milling Company, Ada, Okla. Filed July 5, 1949.

Startgrolay

For Poultry Feed, Consisting of Wheat Shorts, Salt Calcium Carbonate, Soybean Grits, Soybean Meal, Meat and Bone Meal, Ground Kaffir, Milo Maze, and Yellow Corn.

Claims use since May 3, 1949.

Ser. No. 595,153. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Apr. 3, 1950. (Sec. 2f.)

BEST XXXX

Applicant claims ownership of Registrations Nos. 126,336, 385,055, 392,893, and 392,894.

For Wheat Flour (Including Bakery and Family Flour Made From Soft or Hard Wheat), Enriched Wheat Flour, Self-Rising Wheat Flour, Phosphated Flour, Cake Flour, Mixtures of Rye and Wheat Flours, Farina, Wheat Bran, White and Yellow Corn Meal, Corn Grits, Prepared Mixtures for the Making of Cakes, Cookies, Rolls, Muffins, Bread, Piecrust, Pancakes, Biscuits, and Enzyme Concentrates, and Lecithin, Both Used as Ingredients in Foods.

Claims use since on or about Jan. 1, 1873.

Ser. No. 601,147. Hex Foods, Inc., Kansas City, Mo. Filed July 24, 1950.

HEX FRANX

The word "Franx" is disclaimed apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 441,364.

For Chili Comprising Ground Cut Beef, Beef Suet, Salt, Pork, Water, Spice, Dried Skim Milk, and Other Ingredients, All in Link Form.

Claims use since June 15, 1950.

Ser. No. 602,901. Kingly Food Products, Inc., Chicago, Ill. Filed Aug. 29, 1950.

Kingly

The word feature in applicant's composite mark is the word "Kingly."

For Vegetable Fat Product Which Is Whipped and Used as a Topping for Desserts.

Claims use since May 15, 1950.

Ser. No. 603,573. The D. L. Clark Company, Pittsburgh, Pa. Filed Sept. 15, 1950. (Sec. 2f.)

MINT APPETIZERS

The word "Mint" is disclaimed apart from the mark as shown.

For Mint Candy.

Claims use since 1936.

Ser. No. 607,971. Albert L. Townsend, doing business as Pettfish Company, Haddonfield, N. J. Filed Dec. 21, 1950.

PETTFISH

For Sun-Dried Whole Fish Sold in Bulk as Food for Fox and Mink.

Claims use since Mar. 9, 1948.

Ser. No. 614,570. Thos. D. Richardson Co., Philadelphia, Pa. Filed May 31, 1951. (Sec. 2f as to the name "Richardson.")



The drawing is lined to indicate red and blue, but no claim is made as to color as such. Applicant claims ownership of Registration No. 238,535.

For Candy.

Claims use since Apr. 26, 1951; and since 1924 as to "Richardson."

Ser. No. 619,992. Droste's Cacao- en Chocoladefabrieken N. V., Haarlem, Netherlands. Filed Oct. 15, 1951. (Sec. 2f as to "Droste.")



No claim is made to the exclusive use of the representation of a pastille, nor to the words "Haarlem" and "Holland" apart from and except in association with the rest of the mark as shown in the drawing. The drawing is lined for light and dark brown. Applicant claims ownership of United States Registrations Nos. 295,552, 301,330, and others.

For Edible Chocolate in Solid Form.

Claims use since June 1933.

Ser. No. 629,372. Krey Packing Company, St. Louis, Mo. Filed May 8, 1952.

KRI-PI

The word "PI" is disclaimed apart from the mark as shown.

For Unitary Package Containing a Pie Crust Mix and Canned Beef and Vegetables and Both Used in the Making of Beef Pies.

Claims use since Jan. 3, 1952.

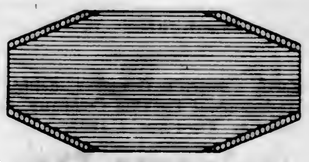
Ser. No. 630,138. Clara Leininger, Maumee, Ohio. Filed May 23, 1952.

EE TĒZ

For Breads.

Claims use since Nov. 11, 1951.

Ser. No. 632,804. Swift & Company, Chicago, Ill. Filed July 19, 1952.



The drawing is lined for the colors red and blue. Applicant claims ownership of Registrations Nos. 246,300 and 297,369.

For Lard.

Claims use since about 1928.

Ser. No. 633,547. Leigh Foods, Inc., New York, N. Y. Filed Aug. 6, 1952.

Flamingo

Applicant claims ownership of Registration No. 86,467.

For Fresh Frozen Orange Juice Concentrate, Fresh Frozen Grapefruit Juice Concentrate, Frozen Coffee in Liquid Form, Frozen Waffles, and Fresh Oranges, Grapefruit, Lemons, Limes, and Tangerines.

Claims use since June 23, 1950.

Ser. No. 633,548. Leigh Foods, Inc., New York, N. Y. Filed Aug. 6, 1952.



Applicant claims ownership of Registration No. 86,467.

For Fresh Frozen Orange Juice Concentrate, Fresh Frozen Grapefruit Juice Concentrate, Frozen Coffee in Liquid Form, Frozen Waffles, and Fresh Oranges, Grapefruit, Lemons, Limes, and Tangerines.

Claims use since June 23, 1950.

Ser. No. 634,102. Maggio Bros. Co., Los Angeles, Calif. Filed Aug. 18, 1952.

COUNTY'S PRIDE

For Fresh Carrots.

Claims use since Apr. 18, 1952.

Ser. No. 635,272. Mary Jo's Products, Inc., Atlanta, Ga. Filed Sept. 15, 1952.



The words "High Protein Concentrate" are disclaimed apart from the mark as shown.

For Oat Flour Mix for Pancakes, Waffles, Muffins, Cakes, and Cup Cakes.

Claims use since Sept. 6, 1952.

Ser. No. 635,548. Mutual Citrus Products Company, Anaheim, Calif. Filed Sept. 20, 1952.

M.C.P.

Applicant claims ownership of Registrations Nos. 329,321 and 339,961.

For Pectin Compositions, Bulk or Packaged, for Use in Making Jams, Jellies, Custards, Candies, and the Like.

Spray Dried Citric Acid Preparations for Use in Confectionery and Bakery Operations; and Citrus Fruit Juices, Liquid, Frozen, and Powdered.
Claims use since Mar. 28, 1944.

Ser. No. 637,097. Weyand & Hogman Fish Company, Wyandotte, Mich. Filed Oct. 23, 1952.



For Fresh and Frozen, Cooked and Raw Seafoods—Namely, Oysters, Shrimp, and Fish.
Claims use since May 25, 1952.

Ser. No. 640,924. Edwards-Freeman, Inc., Philadelphia, Pa. Filed Jan. 19, 1953.

BLUE TOP

For Dried Fruits and Evaporated Fruits.
Claims use since in the year 1905.

Ser. No. 640,998. Atalanta Trading Corporation, New York, N. Y. Filed Jan. 21, 1953.

BEG

For Canned Ham.
Claims use since Dec. 17, 1952.

Ser. No. 640,999. Atalanta Trading Corporation, New York, N. Y. Filed Jan. 21, 1953.

FEG

For Canned Ham.
Claims use since Dec. 2, 1952.

Ser. No. 641,039. General Foods Corporation, New York, N. Y. Filed Jan. 21, 1953.

4in1

For Cocoa Mix.
Claims use since as early as September 1948.

Ser. No. 641,448. The Great Atlantic and Pacific Tea Company, New York, N. Y. Filed Jan. 28, 1953. (Sec. 2f as to "Worthmore.")



The drawing is lined for shading only. Applicant claims ownership of Registrations Nos. 289,058, 501,764, and others.
For Candy.
Claims use since Jan. 9, 1953, on the mark as shown; and since June 1, 1931, on "Worthmore."

Ser. No. 644,048. N. S. Miller, doing business under the trade name Peninsular Foods, Jacksonville, Fla. Filed Mar. 23, 1953.



The representation of the map of Florida is disclaimed apart from the mark as shown.
For Frozen Shrimp, Frozen Oysters, Frozen Scallops, Frozen Fillets, Frozen Clams, Frozen Crawfish, Frozen Lobster Tails, Frozen Devilled Crabs, Frozen Pompano, Frozen Trout, Frozen Whiting, Frozen Grouper, Frozen Snapper, Frozen Spanish and King Mackerel.
Claims use since Sept. 17, 1952.

Ser. No. 644,309. International Milling Company, Minneapolis, Minn. Filed Mar. 27, 1953.

GOBLIN

Applicant claims ownership of Registration No. 266,534.
For Wheat Flour.
Claims use since January 1928.

Ser. No. 644,418. International Milling Company, Minneapolis, Minn. Filed Mar. 30, 1953.

TRIANGLE

Applicant claims ownership of Registration No. 118,796.
For Wheat Flour.
Claims use since June 1, 1915.

Ser. No. 644,646. Swift & Company, doing business as St. Louis Independent Packing Company, Chicago, Ill., and St. Louis, Mo. Filed Apr. 2, 1953.

Hickory Hill

Applicant claims ownership of Registration No. 222,560.
For Bacon.
Claims use since about Jan. 5, 1953.

Ser. No. 645,912. R. G. Moench & Co., Inc., New York, N. Y. Filed Apr. 24, 1953.

TEMPERIT

For Specially Processed Chocolate Crystals Containing Sweet Chocolate With an Emulsifier and Artificial Flavoring, and Which Are Added to Hot Melted Chocolate To Obtain a Desired Crystalline Structure in the Final Product.
Claims use since Mar. 31, 1953.

Ser. No. 645,928. E. S. Stevens Co., Beatrice, Nebr. Filed Apr. 24, 1953.

P and G

Applicant claims ownership of Registration No. 296,719.
For Olives, Jellies, Jams, Peanut Butter, Dried Fruits, Canned Potatoes, and Canned Loganberries.
Claims use since 1912.

Ser. No. 645,995. Leaf Brands, Inc., Chicago, Ill. Filed Apr. 27, 1953. (Sec. 2f.)

LEAFMINT

Applicant claims ownership of Registrations Nos. 531,421, 568,914, and others.
For Chewing Gum.
Claims use since on or about Jan. 1, 1943.

Ser. No. 646,159. J. C. Oliger Seed Company, Akron, Ohio. Filed Apr. 29, 1953. (Sec. 2f.)

Oliger's

For Wild Bird Seeds.
Claims use since on or about Aug. 1, 1941.

CLASS 47

WINES

Ser. No. 625,610. Maison A. Merand & Cie, Epernay, France. Filed Feb. 27, 1952. (Sec. 2f.)



A translation of "May d'Hounour Que d'Hounours" is "More Honor Than Honours." The founder of this brand was Vicomte F. de Castellane, now deceased. Applicant claims ownership of United States Registrations Nos. 83,127 and 312,038.
For Champagne Wine.
Claims use since Oct. 11, 1938; and first used in commerce between France and the United States on Oct. 11, 1938.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 646,981. Berghoff Brewing Corporation, Fort Wayne, Ind. Filed May 14, 1953. (Sec. 2f as to "Berghoff.")



Applicant claims ownership of Registrations Nos. 304,472, 312,693, and others.
For Beer.
Claims use since Mar. 1, 1953, on the mark as shown; and since 1887 on "Berghoff."

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 595,095. Fratelli Rossi, Asiago, Italy. Filed Apr. 1, 1950.



The wording "Liquore Tonico Digestivo Attenuto per Distillazioni dai Frutti del Ginepro" and "Fratelli Rossi Distillatori-Asiago" and the representation of the juniper berries are disclaimed apart from the mark shown on the drawing. Applicant claims ownership of Italian Registration No. 84,836, dated Jan. 11, 1949.
For Liquors Containing an Extract of Juniper Berries in an Alcoholic Solution, With Sugar Added.

Ser. No. 622,284. James Watson & Co. Limited, Seagate, Dundee, Scotland. Filed Dec. 8, 1951. (Sec. 2f.)



The informational wording "Estab. 1815" appearing on the drawing is hereby disclaimed. Applicant claims ownership of Registrations Nos. 312,260, 315,146, and 315,597.

For Scotch Whisky.

Claims use since Dec. 30, 1899; and use in commerce between Great Britain and the United States in the year 1939.

Ser. No. 622,830. Kentucky River Distillery, Incorporated, Nicholasville, Ky. Filed Dec. 26, 1951.

Old Lazy Days

The lining on the drawing is for shading purposes only. The word "Old" is disclaimed apart from the mark as shown.

For Bourbon Whiskey.

Claims use since October 1946.

Ser. No. 633,312. MacDonald, Greenlees Limited, Leith, Edinburgh, Scotland. Filed July 31, 1952. (Sec. 2f.)



For Scotch Whisky.

Claims use since Oct. 5, 1909, in Great Britain; and use in commerce between Great Britain and the United States on June 27, 1933.

Ser. No. 634,429. Callison Wholesale Liquor Company, East St. Louis, Ill. Filed Aug. 13, 1952.

Glen Fork

Applicant claims ownership of Registration No. 362,650.

For Whiskey.

Claims use since Sept. 16, 1937.

Ser. No. 644,663. California Wine Association, San Francisco, Calif. Filed Apr. 3, 1953.

ELEVEN CELLARS

Applicant claims ownership of Registration No. 555,107.

For Brandy.

Claims use since Aug. 21, 1952.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 623,882. Ralph E. Grossman, doing business as Picture Craft Company, Decatur, Ill. Filed Jan. 22, 1952.

Loxa

For Artist's Painting Kits Consisting of Canvasses With Numbered Areas, Capsules Containing Mineral Pigments in Oils, and Artist's Brushes.

Claims use since Aug. 15, 1949.

Ser. No. 636,197. Benray Manufacturing Company, Detroit, Mich. Filed Oct. 6, 1952.

FOREVER FLOWERS

The word "Flowers" is hereby disclaimed apart from the mark.

For Artificial Flowers in a Glass Bowl Adapted To Be Filled With Water.

Claims use since Aug. 15, 1952.

Ser. No. 638,982. Textileather Corporation, Toledo, Ohio. Filed Dec. 4, 1952.

TOLORON

Applicant claims ownership of Registrations Nos. 537,014 and 565,267.

For Coated Fabrics and Resinous Sheet Material in the Nature of Artificial Leather.

Claims use since Nov. 4, 1952.

Ser. No. 642,839. Rodon Corporation, Rocky River, Ohio. Filed Feb. 26, 1953.

SKIRT-EEZ

The word "Skirt" is disclaimed apart from the other features of the mark shown in the drawing.

For Garment Hangers.

Claims use since Jan. 28, 1953.

Ser. No. 643,651. Claridge Equipment Company, Chicago, Ill. Filed Mar. 16, 1953.

Vers-A-Tilt

The word "Tilt" is disclaimed apart from the mark.

For Reversible Chalk and Display Board.

Claims use since Jan. 30, 1953.

Ser. No. 644,043. Maryland Paper Products Co., Baltimore, Md. Filed Mar. 23, 1953.

Sweetheart's MOTHER GOOSE

Applicant claims ownership of Registration No. 377,958.

For Drinking Straws.

Claims use since on or about June 1, 1947.

Ser. No. 644,099. William D. Cahill, Chicago, Ill. Filed Mar. 24, 1953.

KRINGLE BELLS

The word "Bells" is disclaimed apart from the mark as shown.

For Colored Translucent Plastic Christmas Tree Ornaments.

Claims use since Sept. 10, 1951.

Ser. No. 645,895. Jay Dee Products Co., Inc., Brooklyn, N. Y. Filed Apr. 24, 1953.

Rainbow

For Drinking Straws.

Claims use since Dec. 17, 1930.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 605,963. Max Factor & Co., Hollywood, Calif. Filed Nov. 6, 1950.

LAZY-SHAVE

The word "Shave" is disclaimed apart from the mark.

For Cosmetics—Namely, Depilatories, Colognes, Powders, Hand Creams, Face Creams, Cake Make-Up, Cream Make-Up, and Hair Grooming Preparations.

Claims use since Oct. 24, 1950.

Ser. No. 629,192. Eeze Products, Inc., Brookline, Mass. Filed May 5, 1952.



The drawing is lined for violet or purple.

For Eyebrow Cream.

Claims use since Dec. 14, 1950.

Ser. No. 631,759. Old Empire Manufacturing Chemists, Inc., doing business as Marques de Elorza, Newark, N. J. Filed June 25, 1952.

Marche Nuptiale

WEDDING MARCH



The words "Marche Nuptiale" mean "Wedding March."

For Perfumes, Toilet Water, Eau de Cologne, and Cologne Sticks.

Claims use since Feb. 9, 1931.

Ser. No. 638,183. C. H. Brown, doing business as C. H. Brown and Company, Honolulu, Hawaii. Filed Nov. 8, 1952.

Surfrider



For Aftershave Lotion.

Claims use since Aug. 8, 1947.

Ser. No. 642,167. Rilling-Dermetics Company, New York, N. Y. Filed Feb. 12, 1953.

PLACE and SHOW

For Filled Compacts.

Claims use since Jan. 9, 1953.

Ser. No. 645,659. The Nestle-Lemur Company, New York, N. Y. Filed Apr. 21, 1953.

TINT'n'GLINT

For Hair Rinses.

Claims use since Mar. 18, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 636,058. Beauty Counselors, Inc., Grosse Pointe, Mich. Filed Oct. 2, 1952.

BEAUTY COUNSELOR

Applicant claims ownership of Registrations Nos. 386,217 and 297,197.

For Shampoos and Toilet Soaps for Face and Hands. Claims use since Feb. 15, 1935.

Ser. No. 637,283. Metalwash Machinery Company, Elizabeth, N. J. Filed Oct. 28, 1952.

METALSOLV

For Perchlorethylene for Use as a Degreasing Agent. Claims use since Sept. 30, 1952.

Ser. No. 641,411. A. L. Wilson Chemical Company, Kearny, N. J. Filed Jan. 27, 1953.

SoGo

For Cleaning Solvent Useful for General, Domestic, and Industrial Cleaning of Fabrics, and the Like. Claims use since Jan. 9, 1953.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 590,073. Colvin, Mendenhall & Co., San Francisco, Calif. Filed Dec. 29, 1949.

THE TECHNICAL TREND

For Investment Advisory Service Providing Printed Market Analysis and Recommendations for the Long-Term Investor and Providing Professional Aid in Determining Policy for Capital Investment in Common Stocks and for the Protection and Growth of the Capital so Invested. Claims use since Mar. 6, 1948.

Ser. No. 621,026. The Permutit Company, New York, N. Y. Filed Nov. 8, 1951.

MONOCRETE

For Drafting, Designing, and Supplying Specifications and Instructions for Use in the Construction of Filter Underdrain Systems. Claims use since July 1, 1949.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 647,209. Mal-Boc Pipeline Construction Company, Linden, N. J. Filed May 18, 1953.

P-I-C

For Spraying Plastic Contings on Pipe. Claims use since Apr. 10, 1953.

Ser. No. 648,987. The Ferber Company, Hackensack, N. J. Filed June 18, 1953.

MODULEERED

For Industrial Construction Services. Claims use since Apr. 20, 1953.

CLASS 104

COMMUNICATION

Ser. No. 627,557. Crosley Broadcasting Corporation, Cincinnati, Ohio. Filed Apr. 4, 1952.

DANNY MCGUIRE, NIGHTTIME OPERATIVE

The name "Danny McGuire," appearing in the service mark, is that of a fictitious individual.

For Radio Program Broadcasting. Claims use since July 1, 1951.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 596,225. Handmacher-Vogel, Inc., New York, N. Y. Filed Apr. 25, 1950.

WOMEN'S OPEN GOLF TOURNAMENT weathervane

The Exclusive right to the use of the words "Women's Open Golf Tournament" is disclaimed. Applicant claims ownership of Registrations Nos. 339,318 and 554,949.

For Conducting Golf Tournaments. Claims use since February 1950.

Ser. No. 643,523. Samuel Weinstein, Chicago, Ill. Filed Mar. 11, 1953.

THE TENPIN TATTLER

Applicant disclaims the word "Tenpin" apart from the mark. Applicant claims ownership of Registration No. 433,201.

For Entertainment Services in the Nature of a Radio Program Comprising News, Information, Commentaries, and Interviews of Famous Persons, All Relating to the Sport of Bowling. Claims use since on or about Aug. 24, 1935.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

581,735. Automotive Vehicles and Structural Parts Thereof. Willys-Overland Motors, Inc., Toledo, Ohio, assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania.
Original filed, act of 1905, Aug. 20, 1945; amended to application under act of 1946, Principal Register, June 23, 1949, Serial No. 487,343. Published Aug. 4, 1953. Class 19.

581,736. Gear Cutting Machines, Gear Lapping Machines, Gear Burnishing Machines, Gear Shaving Machines and Cutters for Use on Such Machines. The Fellows Gear Shaper Company, Springfield, Vt.
Original filed, act of 1905, Oct. 23, 1945; amended to application under act of 1946, Principal Register, Feb. 20, 1951, Serial No. 490,374. Published June 2, 1953. Class 23.

581,737. Positive-Displacement Rotary Liquid Pumps, Etc. Marine Products Company, Detroit, Mich.
Filed Jan. 23, 1948, Serial No. 547,860. Published July 21, 1953. Class 23.

581,738. Air Filters in the Form of Adhesive-Coated Porous or Fibrous Materials, and for Supporting Frames for Air Filters Arranged in Tiers. Owens-Corning Fiberglas Corporation, Toledo, Ohio.
Filed Mar. 4, 1948, Serial No. 551,195. Published June 16, 1953. Class 31.

581,739. Air Filters in the Form of Adhesive-Coated Porous or Fibrous Materials, and for Supporting Frames for Air Filters Arranged in Tiers. Owens-Corning Fiberglas Corporation, Toledo, Ohio.
Filed Mar. 4, 1948, Serial No. 551,196. Published June 16, 1953. Class 31.

581,740. Open-Type Flooring Made of Metal. Gustav J. Bostrom, doing business as Supergrate Open Steel Flooring Co., Los Angeles, Calif.
Filed May 25, 1948, Serial No. 557,724. Published July 7, 1953. Class 12.

581,741. Children's and Girls' Blouses. Albert I. Levin, trading as Little Charmer Blouse Co., Philadelphia, Pa.
Filed Sept. 11, 1948, Serial No. 564,999. Published Aug. 11, 1953. Class 39.

581,742. Hair Waving Lotions. Donald C. Stokes, doing business as Stokes Institute of Hair Technology, Newark, N. J.
Filed Oct. 2, 1948, Serial No. 566,367. Published July 14, 1953. Class 51.

581,743. Popped Popcorn. Manley, Inc., Kansas City, Mo.
Filed Nov. 20, 1948, Serial No. 569,334. Published June 16, 1953. Class 46.

581,744. Corrosion Inhibiting Impregnated Fabric Tapes for Wrap-Around Application to Pipes or the Like. Pipeline Protection Company, Denver, Colo.
Filed Dec. 20, 1948, Serial No. 570,883. Published July 28, 1953. Class 12.

581,745. Corrosion Inhibiting Impregnated Fabric Tapes for Wrap-Around Application to Pipes or the Like. Pipeline Protection Company, Denver, Colo.
Filed Dec. 20, 1948, Serial No. 570,884. Published July 28, 1953. Class 12.

581,746. Partition Forming Storage Cabinets. Boyd-Britton, Incorporated, Chicago, Ill.
Filed Apr. 14, 1949, Serial No. 577,095. Published June 2, 1953. Class 32.

581,747. Men's and Boys' Dress Shirts and Sport Shirts. M. & D. Simon Company Incorporated, Cleveland, Ohio.
Filed Apr. 30, 1949, Serial No. 578,034. Published Aug. 4, 1953. Class 39.

581,748. Metal Hollow Ware Ovens for Use on the Top of Stoves for Heating, Baking, and Cooking Purposes. The Everedy Company, Frederick, Md.
Filed June 7, 1949, Serial No. 580,053. Published Jan. 8, 1952. Class 13.

581,749. Frozen Milk Confection. Claude A. Reed, Omaha, Nebr., assignor to Whirla-Whip, Inc., Omaha, Nebr., a corporation of Delaware.
Filed June 14, 1949, Serial No. 580,429. Published July 7, 1953. Class 46.

581,750. Cots. National Mattress Company, Huntington, W. Va.
Filed June 15, 1949, Serial No. 580,496. Published July 28, 1953. Class 32.

581,751. Chocolate Flavored Syrup, Black Walnuts in Syrup, Butterscotch, Etc. Parkway Crushed Fruit Company, Louisville, Ky.
Filed June 24, 1949, Serial No. 581,009. Published May 26, 1953. Class 46.

581,752. Forgings in the Form of Flower Stands, Etc. Hubert Wolter, doing business as Wolter & Sons, Chicago, Ill.
Filed July 23, 1949, Serial No. 582,454. Published July 28, 1953. Class 32.

581,753. Governors for Internal Combustion Engines. King-Seeley Corporation, Ann Arbor, Mich.
Filed Sept. 29, 1949, Serial No. 585,534. Published June 2, 1953. Class 28.

581,754. Knitting Machine Parts—Namely, Latch Needles, Spring Beard Needles, Etc. John A. Eberly, Inc., Mohnton, Pa.
Filed Feb. 3, 1950, Serial No. 591,919. Published July 14, 1953. Class 23.

581,755. Fireproof Moldable Substance Formed of Ground Fibrous Material, Etc. Henry J. Earnest, Chicago, Ill.
Filed Mar. 3, 1950, Serial No. 593,337. Published July 28, 1953. Class 12.

581,756. Highway Marker Coating Material Consisting of a Paint-Like Binder and Glass Spheres Adapted To Be Associated With Each Other After Application and Mixed Prior to Application. Prismo Safety Corporation, Huntingdon, Pa.
Filed Apr. 5, 1950, Serial No. 595,280. Published Aug. 11, 1953. Class 16.

581,757. Baseballs, Basketballs, Bats, Softballs, Volleyballs, Golf Balls, Football Helmets, Golf Bags, Cue Balls, Chalk for Pool Cue Sticks, Cue Sticks, Pool Ball Racking Triangles, Racks for Cues, and Cue Ball Racks. The Military Service Company, Birmingham, Ala.
Filed May 15, 1950, Serial No. 597,451. Published Aug. 4, 1953. Class 22.

581,758. Men's and Boys' Negligee, Dress, and Sport Shirts Made From Cotton Fabrics, Rayon Fabrics, and Fabrics Consisting of a Mixture of Cotton and Rayon. The Shirtcraft Company, Inc., New York, N. Y.
Filed June 1, 1950, Serial No. 598,435. Published Apr. 21, 1953. Class 39.

581,759. Bicycles, Motor-Bicycles, Tricycles for Adults, and Their Parts. The Raleigh Cycle Co. Limited, Nottingham, England.
Filed June 13, 1950, Serial No. 599,018. Published Aug. 4, 1953. Class 19.

581,760. Bicycle Frames. The Huffman Manufacturing Company, Dayton, Ohio.
Filed June 20, 1950, Serial No. 599,435. Published Aug. 4, 1953. Class 19.

581,761. Newspaper Magazine Section. The Times-Picayune Publishing Company, New Orleans, La.
Filed June 20, 1950, Serial No. 599,463. Published July 28, 1953. Class 38.

581,762. Prepared Lightweight Concrete Building Blocks. The Union Sand and Supply Corporation, Painesville, Ohio.
Filed June 23, 1950, Serial No. 599,668. Published July 28, 1953. Class 12.

581,763. Canned Fruits, Canned Vegetables, and Canned Deciduous Fruit Juices. Hickmott Canning Co., Antioch, Calif.
Filed July 31, 1950, Serial No. 601,499. Published May 26, 1953. Class 46.

581,764. Container Caps. Crown Cork & Seal Company, Inc., Baltimore, Md.
Filed Aug. 30, 1950, Serial No. 602,931. Published July 7, 1953. Class 50.

581,765. Cleaning Compound in Powder Form for Use in Final Rinse Water for Sanitization of Eating and Drinking Utensils. Frank J. Paull, doing business as Sani-Septic Chemical Company, Cleveland, Ohio.
Filed Oct. 20, 1950, Serial No. 605,228. Published July 14, 1953. Class 52.

581,766. Light Sensitive Materials for Use in Photography—Namely, Sensitized Photographic Papers, Sensitized Photographic Plates, Sensitized Photographic, Cinematographic, and X-Ray Films. Gevaert Photo-Producten N.V., Mortsel, Belgium.
Filed Nov. 6, 1950, Serial No. 605,952. Published June 2, 1953. Class 26.

581,767. Grass Seed Only. Pedigreed Seed Co., New York, N. Y.
Filed Dec. 6, 1950, Serial No. 607,350. Published Feb. 10, 1953. Class 1.

581,768. Metallic Insulation Material Consisting of Reflective Aluminum Sheets for Use as Interior or Exterior Finish of Walls and Ceilings. Reflective Insulation Company, Detroit, Mich.
Filed Dec. 7, 1950, Serial No. 607,398. Published July 7, 1953. Class 12.

581,769. Toy Furniture. Bullick Brothers, Ellsworth, Pa.
Filed Dec. 15, 1950, Serial No. 607,700. Published Aug. 11, 1953. Class 22.

581,770. Sewing Machines. Eastern-Columbia, Inc., Los Angeles, Calif.
Filed Dec. 30, 1950, Serial No. 608,243. Published July 21, 1953. Class 23.

581,771. Canned Fruits, Canned Fruit Cocktail, Canned Applesauce, Canned Berries, Etc. Fine Foods, Inc., Seattle, Wash.
Filed Jan. 9, 1951, Serial No. 608,539. Published May 26, 1953. Class 46.

581,772. Manually or Electrically Driven Grinding Wheel Dressers Having Diamond Cutting Tools Mounted Thereon for Forming Contours on Grinding Wheels. Hoglund Engineering and Manufacturing Company, Inc., Berkeley Heights, New Providence Township, Union County, N. J.
Filed Feb. 19, 1951, Serial No. 610,271. Published July 21, 1953. Class 23.

581,773. Refrigerators, Refrigerator Parts, Automatic Refrigerating Parts, and Refrigerating Systems, for the Preservation of Foodstuffs and Like Purposes. Servel, Inc., Evansville, Ind., and New York, N. Y.
Filed Mar. 13, 1951, Serial No. 611,242. Published June 30, 1953. Class 31.

581,774. Ink-Filled Cartridges for Writing Pens. International Business Machines Corporation, New York, N. Y.
Filed Mar. 23, 1951, Serial No. 611,702. Published Aug. 11, 1953. Class 11.

581,775. Automatic Watches. Admes S. A. R. L., Geneva, Switzerland.
Filed Mar. 26, 1951, Serial No. 611,748. Published June 16, 1953. Class 27.

581,776. Lubricating Oils. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y.
Filed Apr. 11, 1951, Serial No. 612,497. Published July 7, 1953. Class 15.

581,777. Water Cooling Towers, Including Both Forced and Natural Draft, Etc. Hudson Engineering Corporation, Houston, Tex.
Filed May 10, 1951, Serial No. 613,711. Published Aug. 4, 1953. Class 31.

581,778. Casings and Frames for Clocks. Eastern Art Products, Chicago, Ill.
Filed May 24, 1951, Serial No. 614,292. Published July 28, 1953. Class 27.

581,779. Stock Glass in Sheets and Strips. Eastern Art Products, Chicago, Ill.
Filed May 24, 1951, Serial No. 614,293. Published July 28, 1953. Class 33.

581,780. Rubber or Plastic Backed Flock Carpeting, Rugs, and Mats. The Tallmadge Co. Inc., New York, N. Y.
Filed May 31, 1951, Serial No. 614,584. Published Aug. 11, 1953. Class 50.

581,781. Expanded Perlite for Use as Insulating Material, and as an Ingredient in Plaster, Concrete, Insulating Board. Great Lakes Carbon Corporation, New York, N. Y.
Filed June 1, 1951, Serial No. 614,624. Published July 7, 1953. Class 12.

581,782. Women's and Misses' Maternity Wearing Apparel—Namely, Brassières, Garter Belts, and Girdles. Seymour Nehamen, doing business under the name Ann-Ette of Hollywood, Los Angeles, Calif.
Filed June 1, 1951, Serial No. 614,630. Published Aug. 11, 1953. Class 39.

581,783. Special Bed Combination, Including Mattress Unit Attached to Storage Chest Compartment. Slumberland Products Co., Waltham, Mass.
Filed June 16, 1951, Serial No. 615,292. Published Aug. 11, 1953. Class 32.

581,784. Photographic Attachments and Accessories—Namely, Film Editors, Film Splicers, Film Winders for Use in Connection With Film Editors, and Carrying Cases Specifically Designed To Carry Film Editors. The Kalart Company Inc., Plainville, Conn.
Filed June 26, 1951, Serial No. 615,711. Published June 30, 1953. Class 26.

581,785. Jewelry for Personal Adornment, not Including Watches—Namely, Finger Rings, Watch Chains, Bracelets, Earrings, Decorative Pins, and Brooches. Rondette, New York, N. Y.
Filed June 26, 1951, Serial No. 615,724. Published June 23, 1953. Class 28.

581,786. Pasteboard Boxes and Cartons. Neil November, Richmond, Va.
Filed June 27, 1951, Serial No. 615,787. Published Aug. 11, 1953. Class 2.

581,787. Men's and Boys' Work, Dress, and Negligee Shirts. The Shirtcraft Company, Inc., New York, N. Y.
Filed July 3, 1951, Serial No. 616,056. Published July 21, 1953. Class 39.

581,788. Lumber, Millwork, and Fabricated Lumber—Namely, Doors, Etc. Herman H. Hettler Lumber Co., Chicago, Ill.
Filed July 11, 1951, Serial No. 616,319. Published July 28, 1953. Class 12.

581,789. Belt Splicing Unitary Apparatus Comprising Power Driven Belt Skiving Machine, Hand Operated Belt Cutter, and Hand Operated Belt Gluing Press, Etc. Econaway Manufacturing Company, also known as Econaway Manufacturing Co., Bellevue, Mich.
Filed July 21, 1951, Serial No. 616,764. Published July 14, 1953. Class 23.

581,790. Driers for Dehydrating a Circulating Fluid—Namely, a Refrigerant Fluid, Etc. Henry Valve Company, Melrose Park, Ill.
Filed July 25, 1951, Serial No. 616,909. Published Aug. 11, 1953. Class 31.

581,791. Household and Industrial Gloves of Rubber and Plastic Material. The Wilson Rubber Company, Canton, Ohio.
Filed Aug. 10, 1951, Serial No. 617,566. Published July 28, 1953. Class 39.

581,792. Rubber and Plastic Industrial and Household Gloves. The Wilson Rubber Company, Canton, Ohio.
Filed Aug. 10, 1951, Serial No. 617,567. Published Aug. 4, 1953. Class 39.

581,793. Household and Industrial Gloves of Rubber and Plastic Material. The Wilson Rubber Company, Canton, Ohio.
Filed Aug. 10, 1951, Serial No. 617,568. Published July 28, 1953. Class 39.

581,794. Ready-Mixed Paint, Varnishes, Wood Stains, Rubber Base Paint, and Paint Enamels. Duron Paint Manufacturing Company, Washington, D. C.
Filed Aug. 14, 1951, Serial No. 617,653. Published Aug. 4, 1953. Class 16.

581,795. Hair Coloring Preparations. Bymart, Inc., Dover, Del., and New York, N. Y., now by change of name Bymart-Tintair, Inc.
Filed Aug. 21, 1951, Serial No. 617,909. Published Aug. 11, 1953. Class 51.

581,796. Cameras; Camera Dollies and Parts Thereof—Namely, Tripods and Boom Arms, Etc. The Camera-Mart, Inc., New York, N. Y.
Filed Aug. 20, 1951, Serial No. 617,862. Published June 30, 1953. Class 26.

581,797. Cleaning and Polishing Compounds Containing Wax, Etc. De Goss Laboratories, New York, N. Y.
Filed Sept. 15, 1951, Serial No. 618,846. Published Aug. 4, 1953. Class 4.

581,798. Wax Candles. Will & Baumer Candle Co., Inc., Syracuse, N. Y.
Filed Sept. 18, 1951, Serial No. 618,948. Published July 7, 1953. Class 15.

581,799. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Sept. 26, 1951, Serial No. 619,228. Published Aug. 11, 1953. Class 14.

581,800. Photographic Equipment and Accessories for Stereoscopic Cameras, as Follows: Lenses, Lens Shades, Etc. David White Company, Milwaukee, Wis.
Filed Oct. 1, 1951, Serial No. 619,483. Published June 9, 1953. Class 26.

581,801. Belt Buckles; Coins; Key Rings; Watch Chain Keys, Etc. The Cat Cay Realty Company, Limited, Nassau, Island of New Providence, Bahama Islands, British West Indies.
Filed Oct. 26, 1951, Serial No. 620,491. Published June 23, 1953. Class 28.

581,802. Skin Lotion, Essential Cream, Cleansing Cream, and Brilliantine. Bessie Matlock Simon, Chicago, Ill.
Filed Oct. 29, 1951, Serial No. 620,626. Published July 7, 1953. Class 51.

581,803. Hair Tints. Eterne Manufacturing Corporation, New York, N. Y.
Filed Nov. 1, 1951, Serial No. 620,777. Published July 7, 1953. Class 51.

581,804. Cotton Slipper Socks With a Leather Sole for Men, Women, and Children. Tam O'Shanter, Inc., Manchester, N. H.
Filed Nov. 13, 1951, Serial No. 621,177. Published Aug. 19, 1952. Class 39.

581,805. Pump Control Valves and Governors, Etc. The Swartwout Company, Cleveland, Ohio.
Filed Nov. 14, 1951, Serial No. 621,233. Published July 28, 1953. Class 13.

581,806. Bank Pins, Dressmaker Pins, Silk Pins, Open End Thimbles, and Snap Fasteners. Scovill Manufacturing Company, Waterbury, Conn.
Filed Dec. 1, 1951, Serial No. 621,986. Published Aug. 11, 1953. Class 40.

581,807. Brushless Shaving Cream, Lather Shaving Cream, Shave Bowl (Shaving Soap). Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 3, 1951, Serial No. 622,034. Published July 7, 1953. Class 51.

581,808. Storm Windows, Storm Doors, Window Screens, and Screen Doors. Augustine John Kiefer, doing business as Kiefer Manufacturing Co., Pittsburgh, Pa.
Filed Dec. 8, 1951, Serial No. 622,262. Published July 7, 1953. Class 12.

581,809. Plastic Table Place Mats and Plastic Mats for Beverage Glasses. Hedwin Corporation, Baltimore, Md.
Filed Dec. 10, 1951, Serial No. 622,300. Published July 14, 1953. Class 50.

581,810. Door Locksets Including Necessary Handles and Escutcheons. Aug. Stenman Aktiebolag, Eskilstuna, Sweden.
Filed Dec. 13, 1951, Serial No. 622,423. Published Aug. 4, 1953. Class 25.

581,811. Precision Miniature Ball Bearings. Harold R. Swanton, Inc., Los Angeles, Calif.
Filed Jan. 3, 1952, Serial No. 623,168. Published July 21, 1953. Class 23.

581,812. Stapling Machines, Staplers, Tacking Hammers, Staple Extractor, and Stationery Punches Combined With Reinforcing Ring Applicators. Skrebba-Werk, Kommanditgesellschaft, Lahr, Black Forest, Germany.
Filed Oct. 9, 1951, Serial No. 623,524. Published July 28, 1953. Class 23.

581,813. Men's Sport Shirts. Summit Mills Corporation, New York, N. Y.
Filed Jan. 14, 1952, Serial No. 623,566. Published June 30, 1953. Class 39.

581,814. Deep Freezers. Magic Pantry Co., Los Angeles, Calif.
Filed Jan. 15, 1952, Serial No. 623,610. Published July 28, 1953. Class 31.

581,815. Closures for Tin and Glass Containers. Upressit Metal Cap Corporation, Wilmington, Del.
Filed Jan. 15, 1952, Serial No. 623,622. Published Aug. 4, 1953. Class 50.

581,816. Closures for Tin and Glass Containers. Upressit Metal Cap Corporation, Wilmington, Del.
Filed Jan. 15, 1952, Serial No. 623,623. Published Aug. 4, 1953. Class 50.

581,817. Construction Insulation Compound, Etc. Zonolite Company, Chicago, Ill.
Filed Jan. 16, 1952, Serial No. 623,696. Published July 28, 1953. Class 12.

581,818. Filter Paper Particularly Cut for Use in a Coffee-Making Device. Filtrator Coffee Apparatus Co., Inc., New York, N. Y.
Filed Jan. 21, 1952, Serial No. 623,831. Published Aug. 11, 1953. Class 31.

581,819. Textile Fabrics in the Piece of Rayon and Mixtures of Rayon With Other Synthetic Fibers and Cotton Fibers. Dan River Mills, Incorporated, Danville, Va.
Filed Jan. 23, 1952, Serial No. 623,953. Published July 28, 1953. Class 42.

581,820. Sun Glasses. Columbia Protektosite Company, Inc., Carlstadt, N. J.
Filed Jan. 29, 1952, Serial No. 624,228. Published July 7, 1953. Class 26.

581,821. Textile Fabrics Made of "Saran." Deering, Milliken & Co., Inc., New York, N. Y.
Filed Feb. 4, 1952, Serial No. 624,476. Published July 28, 1953. Class 42.

581,822. Bicycles; Motorcycles; Motor-Bicycles; Motor Vehicles (Automobiles); Wheel Hubs; Etc. Fichtel & Sachs Aktiengesellschaft, Schweinfurt am Main (West), Germany.
Filed Aug. 8, 1951, Serial No. 624,716. Published Aug. 4, 1953. Class 19.

581,823. Metal Valves and Cocks for Controlling Gaseous Fluids. Robertshaw-Fulton Controls Company, Greensburg, Pa.
Filed Feb. 12, 1952, Serial No. 624,850. Published July 28, 1953. Class 13.

581,824. Rust Remover in Powdered Form Having an Abrasive Ingredient. Water Glenn Heltman, Bellevue, Ohio.
Filed Feb. 15, 1952, Serial No. 625,011. Published Aug. 4, 1953. Class 4.

581,825. Toilet Water, Cologne, Perfume, Bath Powder, Perfumed and Powdered Sachet and Face Cream. Parfums Blanchard, doing business as "Blanchard," New York, N. Y.
Filed Feb. 20, 1952, Serial No. 625,294. Published Aug. 11, 1953. Class 51.

581,826. Blast Furnace Blocks, Foundation Blocks for Buildings, Etc. Bar-Gar Mineral Plastic Products Co., Inc., Sioux Falls, S. Dak.
Filed Feb. 1, 1952, Serial No. 625,321. Published Aug. 11, 1953. Class 12.

581,827. Characters of Relatively Thin Flexible Material in the Nature of Plastic Letters and Numerals Adapted for Use as Changeable Signs. Walter Gribben, Los Angeles, Calif.
Filed Feb. 23, 1952, Serial No. 625,418. Published July 7, 1953. Class 50.

581,828. Cargo Securing Devices Consisting Primarily of Cargo-Lashing Elements, Slack Take-Up Devices Therefor, and Fastening Members. Eastern Rotorcraft Corporation, Neshaminy, Pa.
Filed Feb. 28, 1952, Serial No. 625,666. Published Aug. 11, 1953. Class 13.

581,829. Men's Neckwear—Namely, Four-in-Hand Ties, Bow Ties, and Scarves. Harry Rosenberg, doing business under the name Cardinal Neckwear, New York, N. Y.
Filed Mar. 1, 1952, Serial No. 625,822. Published July 14, 1953. Class 39.

581,830. Printing and Lithographic Inks. Bowers Printing Ink Company, Chicago, Ill.
Filed Mar. 3, 1952, Serial No. 625,843. Published Aug. 11, 1953. Class 11.

581,831. Hats for Men and Boys. Champ Hats, Inc., Philadelphia, Pa.
Filed Mar. 4, 1952, Serial No. 625,888. Published July 28, 1953. Class 39.

581,832. Chalkboard To Be Affixed to the Walls of Schoolrooms and the Like and To Serve as a Writing or Drawing Surface for Chalk and Crayons. New York Silicate Book Slate Co., Inc., New York, N. Y.
Filed Mar. 6, 1952, Serial No. 626,043. Published Aug. 11, 1953. Class 50.

581,833. Personal Deodorant. Sage Laboratories, Inc., New York, N. Y.
Filed Mar. 6, 1952, Serial No. 626,052. Published July 7, 1953. Class 51.

581,834. Bellows Made of Welded Diaphragm Segments and Employed in the Interconnecting of Fuel Lines, Electrical Conduits, Torque Tubes, Fluid Drives, and the Like. Breeze Corporations, Inc., Newark, N. J.
Filed Mar. 12, 1952, Serial No. 626,299. Published Aug. 11, 1953. Class 13.

581,835. Carded Cotton Yarn. Harriet Cotton Mills, Henderson, N. C.
Filed Mar. 12, 1952, Serial No. 626,325. Published Aug. 4, 1953. Class 43.

581,836. Ingredient for Rodenticides. Vineland Laboratories, Inc., Landis Township, Cumberland County, N. J.
Filed Mar. 12, 1952, Serial No. 626,353. Published Aug. 4, 1953. Class 6.

581,837. Wire Skid Control Coils for Use in the Tire Industry. Penetred Corporation, Marshfield, Wis.
Filed Mar. 14, 1952, Serial No. 626,469. Published Aug. 11, 1953. Class 14.

581,838. Motion Picture Films Which Are Distributed for Use on Television. Vitapix Corporation, Dover, Del., and Hollywood, Calif.
Filed Mar. 21, 1952, Serial No. 626,837. Published June 2, 1953. Class 26.

581,839. Flatware of Base Metal Comprising Table Knives, Forks, and Spoons. Imperial Knife Company, Inc., Providence, R. I.
Filed Mar. 27, 1952, Serial No. 627,134. Published Nov. 18, 1952. Class 23.

581,840. Baby Cosmetics—Namely, Baby Lotion, Baby Oil, Baby Powder, and Baby Cream. Gerber Products Company, Fremont, Mich.
Filed Mar. 31, 1952, Serial No. 627,332. Published July 7, 1953. Class 51.

581,841. Domestic Table Pepper Mills. Park Green & Company Limited, London, England.
Original filed, act of 1946, Supplemental Register, Apr. 4, 1952; amended to application, Principal Register, June 5, 1953, Serial No. 627,596. Published July 28, 1953. Class 23.

581,842. Tumblers Made of Glass. International Molded Plastics, Inc., Cleveland, Ohio.
Filed Apr. 11, 1952, Serial No. 627,944. Published June 23, 1953. Class 33.

581,843. Filters for Filtering Compressed Air, Steam, and Liquids; Filter Casings; and Stone Filters for Water, Steam, Air, and Gas. Howard O. Trerice, doing business as H. O. Trerice Co., Detroit, Mich.
Filed Apr. 12, 1952, Serial No. 628,014. Published June 9, 1953. Class 31.

581,844. Apparatus Consisting of an Air Compressor and a Powder Spray Gun With Dielectric Nozzle for Electrostatically Charging the Powder, for Locating Cracks, Etc. Magnaflux Corporation, Chicago, Ill.
Filed Feb. 14, 1952, Serial No. 628,179. Published June 2, 1953. Class 26.

581,845. Concrete Construction Forms and Parts for the Forms. Universal Form Clamp Co., Chicago, Ill.
Filed Apr. 19, 1952, Serial No. 628,376. Published July 7, 1953. Class 12.

581,846. Weekly Newspaper Feature. The Miami Daily News, Inc., Miami, Fla.
Original filed, act of 1946, Supplemental Register, Apr. 23, 1952; amended to application, Principal Register, May 19, 1953, Serial No. 628,548. Published July 28, 1953. Class 38.

581,847. Mineral Crushing and Screening Plant Comprising Grinder, Concentrator, Classifier, and Separator, and Parts Thereof. Aerofall Mills Limited, Toronto, Ontario, Canada.
Filed Apr. 30, 1952, Serial No. 629,070. Published July 28, 1953. Class 23.

581,848. Articles of Jewelry Each Comprising a Pendant Including a Transparent Case Containing a Mustard Seed, the Jewelry Being of a Religious Symbolic Character. Flint Company, Kansas City, Mo.
Filed May 2, 1952, Serial No. 629,099. Published June 9, 1953. Class 28.

581,849. Hair Lacquer, Creme Cold Wave, Creme Vitalizer, Hair Bleach Oil and Softener, and Creme Rinse. E. Frederics, Inc., Brooklyn, N. Y.
Filed May 2, 1952, Serial No. 629,104. Published July 28, 1953. Class 51.

581,850. Drinking Straws. Regal Products Company, Inc., Chicago, Ill.
Filed May 7, 1952, Serial No. 629,322. Published July 7, 1953. Class 50.

581,851. Cosmetic Preparations—Namely, Cream for Use in the Treatment and Care of the Skin, Etc. Hans Joachim Haering, doing business as Haering, Goldach, Saint Gall, Switzerland.
Filed May 8, 1952, Serial No. 629,363. Published July 7, 1953. Class 51.

581,852. Lens Blanks, Lenses, Color Screens, Filters, Prisms, and Reflectors, All for Optical, Photographic, Projection, and Scientific Use; Microscope Cover Glass, Sungoggle Glasses, and Viscosimeters. Fish-Schurman Corporation, New Rochelle, N. Y.
Filed May 9, 1952, Serial No. 629,429. Published June 30, 1953. Class 26.

581,853. Men's, Women's, and Children's Outer Shirts, Pants, Belts, Hats, Boots, and Ties. Miller & Co., Denver, Colo.
Filed May 9, 1952, Serial No. 629,446. Published July 28, 1953. Class 39.

581,854. Adhesive Coated Cut Outs of Spun Glass in the Form of Stars, Etc. Arkow-Lewis Frosties Division, Philadelphia, Pa.
Filed May 13, 1952, Serial No. 629,595. Published July 14, 1953. Class 50.

581,855. Automobiles and Structural Parts Thereof. Willys-Overland Motors, Inc., Toledo, Ohio, assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania.
Filed May 17, 1952, Serial No. 629,875. Published Aug. 4, 1953. Class 19.

581,856. Potassium Permanganate, a Quaternary Ammonium Compound Used as a Germicide, Disinfectant, Antiseptic, and Deodorant, Ammonia Water, Formaldehyde Rodenticide, and Coal Tar and Pine Oil Disinfectants. Vineland Poultry Laboratories, Landis Township, Cumberland County, N. J.
Filed May 19, 1952, Serial No. 629,922. Published Aug. 11, 1953. Class 6.

581,857. Air Pressure Regulating Valves. The Electric Sprayit Company, Sheboygan, Wis.
Filed May 21, 1952, Serial No. 629,995. Published Aug. 4, 1953. Class 13.

581,858. Foundation Garments. Kops Bros., Inc., New York, N. Y.
Filed May 23, 1952, Serial No. 630,136. Published July 28, 1953. Class 39.

581,859. Specially Processed Powdered Dietary Supplement; Etc. Gaymont Foods Co., Chicago, Ill.
Filed May 29, 1952, Serial No. 630,490. Published Aug. 11, 1953. Class 46.

581,860. All Purpose Lotion for Dermal Application, Cologne, Deodorant, Face Powder, Perfume, Sachet Powder. Royal Home Products, Inc., doing business as Zanol Products, Cincinnati, Ohio.
Filed May 29, 1952, Serial No. 630,512. Published Aug. 11, 1953. Class 51.

581,861. Fabric Strap Having Snap Fasteners Attached to Each End for Suspension Over a Wall Fixture, Such as a Towel Rack, for Supporting Hose or Like Apparel To Prevent It From Falling on the Floor While Drying. The Hang-Over Company, Chicago, Ill.
Filed May 31, 1952, Serial No. 630,535. Published July 14, 1953. Class 40.

581,862. Machine Which Forms a Gelatin Film and Forms, Measures, and Fills the Gelatin Capsules Therefrom. American Cyanamid Company, New York, N. Y.
Filed June 10, 1952, Serial No. 630,981. Published June 30, 1953. Class 26.

581,863. Fabric and Yarn Cording. Frances & Walter Nelkin, Inc., New York, N. Y.
Filed June 10, 1952, Serial No. 631,018. Published Aug. 4, 1953. Class 40.

581,864. Pin Ball Game. Norman H. Sanger, Columbus, Ohio.
Filed June 11, 1952, Serial No. 631,067. Published Aug. 4, 1953. Class 22.

581,865. Solution for the Temporary Relief of Minor Simple Earache. Sanford Lovely, doing business as Kolmer Laboratories, Madison, Tenn.
Filed June 16, 1952, Serial No. 631,243. Published July 7, 1953. Class 18.

581,866. Work Rest Blades for Centerless Grinders. Cliff Co., Chicago, Ill.
Filed June 17, 1952, Serial No. 631,272. Published July 21, 1953. Class 23.

581,867. Fur Coats. Suzanne's Parisian Furs, Inc., Jamaica, N. Y.
Filed June 18, 1952, Serial No. 631,384. Published July 28, 1953. Class 39.

581,868. Sensing Head Adapted for Contact With an Object To Be Gauged, for Use With Comparator or Indicator Gages. The Sheffield Corporation, Dayton, Ohio.
Filed June 20, 1952, Serial No. 631,501. Published June 30, 1953. Class 26.

581,869. Finely-Divided Cementitious Solid Material Suitable When Admixed With Water for Sealing Openings and Joints and for Filling Holes and Cracks in Wood, Masonry, Porcelain, and the Like. Stephen N. Stroub, doing business as Stroub Products, Totowa Borough, Passaic County, N. J., assignor to Stroub Products Co., Inc., Totowa Borough, Passaic County, N. J.
Filed June 21, 1952, Serial No. 631,582. Published Aug. 11, 1953. Class 12.

581,870. Foam Rubber Pads or Mats To Be Used Under Rugs. Belrug Mills of South Carolina, Greenville, S. C., by change of name from Belrug Mill, Inc.
Filed June 23, 1952, Serial No. 631,598. Published July 7, 1953. Class 50.

581,871. Educational Card Game. Irving Brambier, doing business as Ed-U-Cards, New York, N. Y.
Filed June 24, 1952, Serial No. 631,650. Published Aug. 4, 1953. Class 22.

581,872. Pressure Responsive Automatic Cut-Off Valves for Controlling Fluid Flow. Handley Brown Heater Company, Jackson, Mich.
Filed June 28, 1952, Serial No. 631,926. Published Aug. 11, 1953. Class 13.

581,873. Spring Assembly for Upholstered Furniture, Mattresses, and Box Springs Having Coating Material Thereon. No-Sag Spring Company, Detroit and Warren Township, Mich.
Filed June 28, 1952, Serial No. 631,944. Published Aug. 4, 1953. Class 32.

581,874. Spring Assembly for Upholstered Furniture, Mattresses, and Box Springs Having Coated Material Thereon. No-Sag Spring Company, Detroit and Warren Township, Mich.
Filed June 28, 1952, Serial No. 631,945. Published Aug. 4, 1953. Class 32.

581,875. Bedding Clamps for Retaining the Bedding of a Made-Up Bed Against Disarrangement. Joseph F. Di Maria, Palo Alto, Calif.
Filed July 7, 1952, Serial No. 632,201. Published July 28, 1953. Class 32.

581,876. Power-Operated Sprayers for Agricultural Use. H. D. Hudson Manufacturing Company, Chicago, Ill.
Filed July 9, 1952, Serial No. 632,302. Published July 21, 1953. Class 23.

581,877. Scoreboard Game Played With Movable Pieces. Kurland Enterprises, Inc., Leonia, N. J.
Filed July 10, 1952, Serial No. 632,378. Published Aug. 4, 1953. Class 22.

581,878. Ice Cream and Sherbets. Abbotts Dairies, Inc., Philadelphia, Pa.
Filed July 11, 1952, Serial No. 632,407. Published May 26, 1953. Class 46.

581,879. Metal Stands for Holding Advertising Commercial Murals, Panels, and Screens and the Like. W. L. Stensgaard and Associates, Inc., Chicago, Ill.
Filed July 11, 1952, Serial No. 632,453. Published July 28, 1953. Class 32.

581,880. Office Machines for Separating and Removing the Manifold Carbons From Between the Writing Sheets. Joseph Zalkind, New York, N. Y.
Filed July 14, 1952, Serial No. 632,544. Published July 14, 1953. Class 23.

581,881. Poultry Eviscerating Equipment Comprising Tables, Conveyor Belts and Chains, Hangers and Shackles, Washers and Tanks, Pans and Receptacles, and Parts Thereof, Sold as a Unit. Gordon Johnson Company, Kansas City, Mo.
Filed July 16, 1952, Serial No. 632,614. Published July 21, 1953. Class 23.

581,882. Vertical Multi-Tray Rotary Stand for Receptacles for Storing Small Parts. The Union Metal Manufacturing Company, Canton, Ohio.
Filed July 19, 1952, Serial No. 632,805. Published July 28, 1953. Class 32.

581,883. Gates and Valves and Parts Thereof for Industrial Irrigation and Sewage Purposes. Bardco Manufacturing & Sales Company, Los Angeles, Calif.
Filed July 21, 1952, Serial No. 632,822. Published Aug. 11, 1953. Class 13.

581,884. Dresses, Wraps, Jackets, Coats, Scarves, Suits, Corsets, Underwear, Negligees, Shoes of Leather, Fabric, or Combinations Thereof, Etc. The Neusteter Co., Denver, Colo.
Filed July 23, 1952, Serial No. 632,952. Published July 28, 1953. Class 39.

581,885. Insecticides. Residex Corporation, Newark, N. J.
Filed July 25, 1952, Serial No. 633,074. Published Aug. 4, 1953. Class 6.

581,886. Assemblies Consisting of a Thermometer and an Adapter for Mounting the Thermometer in the Neck of a Vessel and Adapters for Use in Such Assemblies. Scientific Glass Apparatus Co., Inc., Bloomfield, N. J.
Filed July 26, 1952, Serial No. 633,125. Published June 30, 1953. Class 26.

581,887. Cookies and Crackers. United Biscuit Company of America, Chicago, Ill.
Filed July 28, 1952, Serial No. 633,185. Published Aug. 4, 1953. Class 46.

581,888. Grooved Phonograph Records. Hollis Music, Inc., New York, N. Y.
Filed July 31, 1952, Serial No. 633,308. Published Aug. 4, 1953. Class 36.

581,889. Electric Wiring Devices and Parts Thereof—Namely, Lamp Holders, Switches, Etc. Pass & Seymour, Inc., Syracuse, N. Y.
Filed Aug. 1, 1952, Serial No. 633,374. Published July 21, 1953. Class 21.

581,890. Periodical Appearing Monthly. George Garland, doing business as Garland Publications, New York, N. Y.
Filed Aug. 12, 1952, Serial No. 633,765. Published July 28, 1953. Class 38.

581,891. Narrow Elastic Braids. United Elastic Corporation, Easthampton, Mass.
Filed Aug. 12, 1952, Serial No. 633,800. Published July 14, 1953. Class 40.

581,892. Mattresses. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill.
Filed Aug. 13, 1952, Serial No. 633,881. Published Aug. 4, 1953. Class 32.

581,893. Vaginal Antiseptics and Antiseptic Compounds. Louis I. Weiner, doing business under the firm name and style Tablax Company, New York, N. Y.
Filed Aug. 6, 1952, Serial No. 634,021. Published July 7, 1953. Class 18.

581,894. Board Game Employing Cards and Playing Pieces. Selchow & Righter Company, New York, N. Y.
Filed Aug. 19, 1952, Serial No. 634,166. Published Aug. 11, 1953. Class 22.

581,895. Hair Nets. Brooklyn Mills, Inc., Englewood, N. J.
Filed Aug. 22, 1952, Serial No. 634,296. Published July 28, 1953. Class 39.

581,896. Mattresses. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill.
Filed Aug. 21, 1952, Serial No. 634,273. Published Aug. 4, 1953. Class 32.

581,897. Mattresses. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill.
Filed Aug. 21, 1952, Serial No. 634,275. Published Aug. 4, 1953. Class 32.

581,898. Mattresses. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill.
Filed Aug. 21, 1952, Serial No. 634,276. Published Aug. 4, 1953. Class 32.

581,899. Paints, Varnish, Stains, and Shellacs. Cook & Dunn Paint Corp., Newark, N. J.
Filed Aug. 22, 1952, Serial No. 634,300. Published Aug. 4, 1953. Class 16.

581,900. Water Softeners and Filters. Soft Water Supply Co., Atchison, Kans.
Filed Aug. 22, 1952, Serial No. 634,350. Published Aug. 11, 1953. Class 31.

581,901. Woven Elastic Webbing. United Elastic Corporation, Easthampton, Mass.
Filed Aug. 23, 1952, Serial No. 634,387. Published July 28, 1953. Class 42.

581,902. Brassières, Foundation Garments, Girdles, and Garter Belts. Beautee-Fit Company, Los Angeles, Calif.
Filed Aug. 26, 1952, Serial No. 634,441. Published Aug. 4, 1953. Class 39.

581,903. Dolls. K. B. Doll Corporation, New York, N. Y.
Filed Aug. 26, 1952, Serial No. 634,472. Published Aug. 4, 1953. Class 22

581,904. Toilet Water. Extraction and Chemical Company, Inc., New York, N. Y.
Filed Aug. 27, 1952, Serial No. 634,529. Published July 7, 1953. Class 51.

581,905. Ladies' and Misses' Clothing—Namely, Dresses Skirts, Blouses, Halters, Jackets, Boleros, Sun Dresses, Belts, Stoles, Caps and Hats. Madalyn Miller Corporation, Los Angeles, Calif.
Filed Aug. 30, 1952, Serial No. 634,695. Published Aug. 11, 1953. Class 39.

581,906. Perfumes and Colognes. Lucien Lelong, Inc., Chicago, Ill., assignor to Coty, Inc., New York, N. Y., a corporation of Delaware.
Filed Sept. 3, 1952, Serial No. 634,793. Published July 28, 1953. Class 51.

581,907. Water Softener Regenerating Units, Each Unit Consisting of a Brine Tank, Multiport Valve, and Automatic Mechanism for Operating Said Valve. Elgin Softener Corporation, Elgin, Ill.
Filed Sept. 4, 1952, Serial No. 634,838. Published Aug. 11, 1953. Class 31.

581,908. Artificial Fish Lures. Elizabeth S. Scanlan, doing business as Aeroplane Spinner Manufacturing Co., Denver, Colo.
Filed Sept. 8, 1952, Serial No. 634,995. Published Aug. 4, 1953. Class 22.

581,909. Board Game Employing Cards and Playing Pieces. Selchow & Righter Company, New York, N. Y.
Filed Sept. 9, 1952, Serial No. 635,062. Published Aug. 4, 1953. Class 22.

581,910. Piano Actions. Piano Action & Key Corp., Memphis, Tenn.
Filed Sept. 13, 1952, Serial No. 635,234. Published Aug. 11, 1953. Class 36.

581,911. Dental Prosthetic Appliances and for Surgical Appliances—Namely, Bone Plates, Etc. Austenal Laboratories, Incorporated, New York, N. Y.
Filed Sept. 17, 1952, Serial No. 635,342. Published Aug. 4, 1953. Class 44.

581,912. Dental Prosthetic Appliances and for Surgical Appliances—Namely, Bone Plates, Etc. Austenal Laboratories, Incorporated, New York, N. Y.
Filed Sept. 17, 1952, Serial No. 635,343. Published Aug. 4, 1953. Class 44.

581,913. Marble Games. H. G. Finch, Rocky Mount, N. C.
Filed Sept. 17, 1952, Serial No. 635,359. Published Aug. 4, 1953. Class 22.

581,914. Water Softener of the Ion-Exchange Type and Integral Parts Thereof. Wesley A. Harting, doing business as United States Soft Water Company, Kansas City, Mo.
Filed Sept. 17, 1952, Serial No. 635,363. Published July 7, 1953. Class 31.

581,915. Liquid Cooling Towers and Parts Thereof. The Marley Company, Inc., Kansas City, Mo.
Filed Sept. 17, 1952, Serial No. 635,369. Published June 2, 1953. Class 31.

581,916. Liquid Cooling Towers and Parts Thereof. The Marley Company, Inc., Kansas City, Mo.
Filed Sept. 17, 1952, Serial No. 635,370. Published June 9, 1953. Class 31.

581,917. Packaged Door Units, Consisting of Door, Frame, Trim, and Hardware Attached. Bond-Howell Lumber Company, Jacksonville, Fla., assignor to Con-Dor Corporation of America, Jacksonville, Fla., a corporation of Florida.
Filed Sept. 24, 1952, Serial No. 635,681. Published July 7, 1953. Class 12.

581,918. Water-Softeners of the Ion-Exchange Type. The Dayton Pump & Manufacturing Company, Dayton, Ohio.
Filed Sept. 24, 1952, Serial No. 635,689. Published July 21, 1953. Class 31.

581,919. Filter Aids Made of Powdered Carbon. Great Lakes Carbon Corporation, New York, N. Y.
Filed Sept. 25, 1952, Serial No. 635,765. Published July 7, 1953. Class 31.

581,920. Mattress Cores of Foam Rubber. United States Rubber Company, New York, N. Y.
Filed Sept. 25, 1952, Serial No. 635,796. Published July 28, 1953. Class 32.

581,921. Men's, Women's, and Children's Boots and Shoes. H. H. Brown Shoe Co., Inc., Worcester, Mass.
Filed Sept. 27, 1952, Serial No. 635,870. Published July 28, 1953. Class 39.

581,922. Metal Dowel Pins, Self-Locking Nuts, Internal Wrenching Nuts, External Wrenching Nuts, Hollow Set Screws, Socket Head Cap Screws, Etc. Standard Pressed Steel Co., Jenkintown, Pa.
Filed Sept. 29, 1952, Serial No. 635,936. Published Aug. 11, 1953. Class 13.

581,923. Portable Carts, Packing Plant Trucks, Hand Trucks, Platform Trucks, and Wheels and Casters for Floor Trucks. Standard Pressed Steel Co., Jenkintown, Pa.
Filed Sept. 29, 1952, Serial No. 635,937. Published Aug. 11, 1953. Class 19.

581,924. Paints, Particularly for Coating Metal. The Debevoise Company, Brooklyn, N. Y.
Filed Oct. 3, 1952, Serial No. 636,120. Published Aug. 11, 1953. Class 16.

581,925. Mixture of Sand, Cement Waterproofing Agent, Hardener, and Mineral Coloring To Be Used in Making Artificial Building Stone. Emco Cement Products, Inc., Paxinos, Pa.
Filed Oct. 6, 1952, Serial No. 636,225. Published July 7, 1953. Class 12.

581,926. Lumber, Millwork, Wooden Flooring, Plywood, and Shingles. Hixon-Peterson Lumber Company, Toledo, Ohio.
Filed Oct. 7, 1952, Serial No. 636,293. Published July 7, 1953. Class 12.

581,927. Combined Massage and Complexion Brush. G. B. Kent & Sons Limited, London, England.
Filed Oct. 7, 1952, Serial No. 636,294. Published Aug. 11, 1953. Class 29.

581,928. Commercial Ice-Cream Dispensing Freezers. Sweden Freezer Manufacturing Company, Seattle, Wash.
Filed Oct. 7, 1952, Serial No. 636,316. Published Aug. 11, 1953. Class 31.

581,929. Metal Traps With Drainage Holes To Be Placed Inside of a Downspout To Trap Debris But Permit Free Flow of Water, and Metal Baffle Traps To Be Installed in Drainage End of a Downspout Pipe Which Will Allow Drainage of Water While Trapping Debris. Jack Woodrow, Indianapolis, Ind.
Filed Oct. 8, 1952, Serial No. 636,396. Published July 7, 1953. Class 12.

581,930. Grooved Phonograph Records. Vox Productions Inc., New York, N. Y.
Filed Oct. 9, 1952, Serial No. 636,445. Published Aug. 4, 1953. Class 36.

581,931. Doors and Windows Sold as Complete Units. Season-All Window Corp., New Rochelle, N. Y.
Filed Oct. 10, 1952, Serial No. 636,500. Published Aug. 4, 1953. Class 12.

581,932. Split Concrete Building Blocks and Bricks. Leon H. Schlough, St. Cloud, Minn.
Filed Oct. 11, 1952, Serial No. 636,541. Published July 7, 1953. Class 12.

581,933. Locks, Latches, and Locking Attachments Therefor, and Keys Therefor, Particularly for Use With Trunks, Suitcases, and Luggage Generally. Long Manufacturing Co., Inc., Petersburg, Va.
Filed Oct. 13, 1952, Serial No. 636,569. Published Aug. 4, 1953. Class 25.

581,934. Aprons for Household Use. Marguerite A. Stirton, doing business under the name and style of Adele Apron Co., Oak Park, Ill.
Filed Oct. 13, 1952, Serial No. 636,576. Published July 28, 1953. Class 39.

581,935. Cheese and Milk Products—Namely, Dry Milk, Concentrated and Condensed Milk. Ch. Gervais, Société Anonyme, Paris, France.
Filed Oct. 14, 1952, Serial No. 636,586. Published Aug. 11, 1953. Class 46.

581,936. Cheese and Milk Products—Namely, Dry Milk, Concentrated and Condensed Milk. Ch. Gervais, Société Anonyme, Paris, France.
Filed Oct. 14, 1952, Serial No. 636,587. Published Aug. 11, 1953. Class 46.

581,937. Men's Neckties and Scarfs. Wembley, Inc., New Orleans, La.
Filed Oct. 14, 1952, Serial No. 636,620. Published July 28, 1953. Class 39.

581,938. Lotion Face Cream. Revlon Products Corporation, New York, N. Y.
Filed Oct. 16, 1952, Serial No. 636,736. Published July 7, 1953. Class 51.

581,939. Petroleum-Base Lubricating Oil. The Standard Oil Company, Cleveland, Ohio.
Filed Oct. 16, 1952, Serial No. 636,749. Published Apr. 21, 1953. Class 15.

581,940. Ladies' and Misses' Dresses. Shroyers Incorporated, Shamokin, Pa.
Filed Oct. 23, 1952, Serial No. 637,089. Published Aug. 11, 1953. Class 39.

581,941. Clip-On Adjuster Comprising Two Clips Joined Together by an Elastic Band Which Facilitates the Fitting of a Garment to a Display Form. Martha B. Burns, Wichita, Kans.
Filed Oct. 24, 1952, Serial No. 637,110. Published July 14, 1953. Class 40.

581,942. Grooved Phonograph Records. Campbell & McClintock, Scarsdale, N. Y.
Filed Oct. 27, 1952, Serial No. 637,238. Published Aug. 4, 1953. Class 36.

581,943. Unwrought and Partly Wrought Metals Used in Manufacture. Capper Pass & Son Limited, Bristol, England.
Filed Oct. 29, 1952, Serial No. 637,300. Published Aug. 4, 1953. Class 14.

581,944. Men's and Boys' Work and Sport Clothing—Namely, Flannel Shirts, Work Shirts, Negligee Shirts, Uniform Pants, Coats, Jackets, and Caps. The Black Manufacturing Co., Seattle, Wash.
Filed Oct. 30, 1952, Serial No. 637,355. Published July 21, 1953. Class 39.

581,945. Coated Abrasives. Minnesota Mining & Manufacturing Company, St. Paul, Minn.
Filed Nov. 5, 1952, Serial No. 637,664. Published Aug. 4, 1953. Class 4.

581,946. Foundry Shrinkage Control Elements—Namely, Metal Inserts Which Are Positioned So as To Project Into a Casting Mold Cavity Prior To Introducing Molten Metal Therein. The Canton Chaplet and Manufacturing Company, Canton, Ohio.
Filed Nov. 6, 1952, Serial No. 637,700. Published Aug. 11, 1953. Class 14.

581,947. Medicinal Tablets Utilized as an Aid To Relieve and Control Pain and Symptoms of Arthritis, Rheumatism, and Muscular Aches. Jessie Katlen, doing business as Roo-Amin Co., Rochester, N. Y.
Filed Nov. 6, 1952, Serial No. 637,710. Published July 7, 1953. Class 18.

581,948. Buckles of Non-Precious Metals. E-Z Buckle, Inc., New York, N. Y.
Filed Nov. 12, 1952, Serial No. 637,918. Published Aug. 4, 1953. Class 40.

581,949. Medicated Chewing Gum. American Chicle Company, Long Island City, N. Y.
Filed Nov. 13, 1952, Serial No. 637,980. Published July 7, 1953. Class 18.

581,950. Men's, Women's, and Children's Shoes Made of Canvas, Leather, Rubber, or Combinations Thereof. Bristol Manufacturing Corporation, Bristol, R. I.
Filed Nov. 14, 1952, Serial No. 638,060. Published July 28, 1953. Class 39.

581,951. Liquid Dandruff Remover. Dorothy Morna Hargreaves, New York, N. Y.
Filed Nov. 14, 1952, Serial No. 638,080. Published July 28, 1953. Class 51.

581,952. Infants', Nursery, and Juvenile Furniture—Namely, Baby Swing Chairs, Etc. Storkline Furniture Corporation, Chicago, Ill.
Filed Nov. 15, 1952, Serial No. 638,168. Published July 28, 1953. Class 32.

581,953. Waist Band Linings. Morganstern, Brooks & Company, Fredericksburg, Va.
Filed Nov. 17, 1952, Serial No. 638,209. Published Aug. 4, 1953. Class 40.

581,954. Metal Pipes, Metal Pipe Couplings, and Gas Valves. Gas Material Supplies, Inc., West New York, N. J.
Filed Nov. 18, 1952, Serial No. 638,256. Published Aug. 11, 1953. Class 13.

581,955. Silicone Coating Solution for Rendering Surfaces Water Repellant. The Verflex Co., Inc., Carlstadt, N. J.
Filed Nov. 18, 1952, Serial No. 638,277. Published Aug. 11, 1953. Class 16.

581,956. Paint. The Verflex Co., Inc., Carlstadt, N. J.
Filed Nov. 18, 1952, Serial No. 638,278. Published Aug. 11, 1953. Class 16.

581,957. Nail Polish Remover Preparation. Helen Neuschaefer, Inc., New York and College Point, N. Y.
Filed Nov. 19, 1952, Serial No. 638,308. Published Aug. 11, 1953. Class 51.

581,958. Metal Surface Treating Compositions in Powder or Pellet Form. Robert Everett Olson, San Antonio, Tex.
Filed Nov. 19, 1952, Serial No. 638,309. Published Aug. 11, 1953. Class 6.

581,959. Engine Fuel Additive for Use in Engine Fuel Supply Systems as a Dehydrant and Deposit-Preventing and Ridding Agent. Burton S. Price, doing business as Enzrust Co., Newton, Mass.
Filed Nov. 19, 1952, Serial No. 638,312. Published July 28, 1953. Class 15.

581,960. Men's, Women's, Misses', and Children's Caps; Hats, Shoes of Leather, Calf Skin, Etc. William Skinner & Sons, Holyoke, Mass., and New York, N. Y.
Filed Nov. 19, 1952, Serial No. 638,320. Published July 28, 1953. Class 39.

581,961. Women's Dresses. Boris Smoler & Sons, Inc., Chicago, Ill.
Filed Nov. 21, 1952, Serial No. 638,445. Published July 28, 1953. Class 39.

581,962. Yarns and Threads Made Wholly or Mainly of Protein Fibre. Imperial Chemical Industries Limited, London and Millbank, England.
Filed Nov. 25, 1952, Serial No. 638,583. Published July 28, 1953. Class 43.

581,963. Women's and Misses' Suits and Coats. Craftshire Sports, Inc., New York, N. Y.
Filed Nov. 26, 1952, Serial No. 638,636. Published July 28, 1953. Class 39.

581,964. Tall Oil Fatty Acid. Arizona Chemical Company, New York, N. Y.
Filed Nov. 28, 1952, Serial No. 638,683. Published Aug. 11, 1953. Class 6.

581,965. Men's, Women's, and Children's Footwear—Namely, Boots and Shoes of Leather and/or Rubber and Combinations Thereof. Techno Efficiency Council, Inc., Brooklyn, N. Y.
Filed Nov. 28, 1952, Serial No. 638,742. Published July 28, 1953. Class 39.

581,966. Infants' Portable Seats for Use in Automobiles. Rose-Derry Company, Newton, Mass.
Filed Dec. 1, 1952, Serial No. 638,811. Published Aug. 4, 1953. Class 19.

581,967. Bridges for Ophthalmic Mountings. Shuron Optical Company, Inc., Geneva, N. Y.
Filed Dec. 3, 1952, Serial No. 638,916. Published June 2, 1953. Class 26.

581,968. Oxygen, Hydrogen, Acetylene, Etc. Southern Oxygen Company, Bladensburg, Md.
Filed Dec. 3, 1952, Serial No. 638,924. Published Aug. 4, 1953. Class 6.

581,969. Plastic Laminates, With or Without a Backing, in the Form of Sheets and Panels for Walls, Elevator Cabs, Show Cases, Kitchen Counters, Sink Tops, Soda Fountain, Lunch and Bar Tops, and for Other Building and Construction Purposes. United States Plywood Corporation, New York, N. Y.
Filed Dec. 4, 1952, Serial No. 638,987. Published Aug. 11, 1953. Class 12.

581,970. Women's Shoes, Made of Leather, Plastic, Cloth, or Combinations of Such Materials. Pearl-Preview Shoe Co., Philadelphia, Pa.
Filed Dec. 8, 1952, Serial No. 639,187. Published July 28, 1953. Class 39.

581,971. Insulation Board for Roof Sheathing. The Flintkote Company, New York, N. Y.
Filed Dec. 9, 1952, Serial No. 639,218. Published Aug. 11, 1953. Class 12.

581,972. Printing Inks. Sun Chemical Corporation, Long Island City, N. Y.
Filed Dec. 11, 1952, Serial No. 639,344. Published Aug. 11, 1953. Class 11.

581,973. Storm Windows and Storm Doors. The Little-Beaver Co., Baltimore, Md.
Filed Dec. 15, 1952, Serial No. 639,481. Published Aug. 11, 1953. Class 12.

581,974. Shoe Racks and Hat Racks Designed To Be Affixed to a Wall or Other Supporting Surface. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,494. Published July 28, 1953. Class 13.

581,975. Travel Clocks. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,514. Published June 23, 1953. Class 27.

581,976. Ceramic Articles — Namely, Tea Pots, Coffee Pots, Mustard Pots, Etc. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,516. Published June 30, 1953. Class 30.

581,977. Drinking Glasses and Tumblers, Luncheon Sets, Bowls, Ovenware and Fireproof Cooking Ware, Tableware, Tray Sets, Decanters, Cruets, Stemware, Salt and Pepper Shakers, and Vases, All Made of Glass. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,518. Published June 30, 1953. Class 33.

581,978. Cheese. The Borden Company, New York, N. Y.
Filed Dec. 16, 1952, Serial No. 639,551. Published June 16, 1953. Class 46.

581,979. Corsets, Girdles, and Foundation Garments. Treo Company, Inc., Jamaica, N. Y.
Filed Dec. 17, 1952, Serial No. 639,675. Published July 28, 1953. Class 39.

581,980. Power Lawn Mowers. R P M Manufacturing Company, Lamar, Mo.
Filed Dec. 18, 1952, Serial No. 639,717. Published June 2, 1953. Class 23.

581,981. Women's Shoes Made of Leather, Cloth, and Rubber. W. B. Coon Company, Rochester, N. Y.
Filed Dec. 22, 1952, Serial No. 639,873. Published July 28, 1953. Class 39.

581,982. Women's and Girls' Dresses. Robt. K. Gershenow Company, Inc., New York, N. Y.
Filed Dec. 22, 1952, Serial No. 639,880. Published July 28, 1953. Class 39.

581,983. Rubber Base Paint. M. Ewing Fox Co., Inc., New York, N. Y.
Filed Dec. 23, 1952, Serial No. 639,927. Published Aug. 11, 1953. Class 16.

581,984. Newspaper Column. The Sporting News Publishing Company, Inc., St. Louis, Mo.
Filed Dec. 26, 1952, Serial No. 640,054. Published July 28, 1953. Class 38.

581,985. Annual Publication. The Sporting Goods Publishing Company, St. Louis, Mo.
Filed Dec. 26, 1952, Serial No. 640,055. Published July 28, 1953. Class 38.

581,986. Dresses, Blouses, Skirts, Coats, and Belts for Ladies. George Fine, Tucson, Ariz.
Filed Dec. 27, 1952, Serial No. 640,071. Published July 28, 1953. Class 39.

581,987. Trousers. Hepton & Co. (Clothiers) Limited, Leeds, England.
Filed Dec. 29, 1952, Serial No. 640,121. Published July 21, 1953. Class 39.

581,988. Extension Tables. Charak Furniture Company, Boston, Mass.
Filed Dec. 30, 1952, Serial No. 640,145. Published Aug. 4, 1953. Class 32.

581,989. Open-Ended, Ratchet, Plug, Torque, and Pipe Wrenches. Tec-Imports, Van Nuys, Calif.
Filed Jan. 7, 1953, Serial No. 640,477. Published July 28, 1953. Class 23.

581,990. Pillows, Mattresses, and Box Springs. Marshall Field & Company, Chicago, Ill.
Filed Jan. 8, 1953, Serial No. 640,519. Published Aug. 4, 1953. Class 32.

581,991. Plasticizers, Esters, Petroleum Sulphonates, Emulsifiers, Fat Splitting Agents, Etc. Morton-Withers Chemical Company, Greensboro, N. C.
Filed Jan. 8, 1953, Serial No. 640,522. Published Aug. 4, 1953. Class 6.

581,992. Molded or Dipped Women's Gaiters of Elastomeric Material. United States Rubber Company, New York, N. Y.
Filed Jan. 8, 1953, Serial No. 640,536. Published July 28, 1953. Class 39.

581,993. Single Actuator Multiple Valve Units. George W. Dahl Company, Inc., Bristol, R. I.
Filed Jan. 9, 1953, Serial No. 640,558. Published July 28, 1953. Class 13.

581,994. Chair Leg Tips. The National Plastic Products Company, Odenton, Md.
Filed Jan. 9, 1953, Serial No. 640,575. Published July 28, 1953. Class 32.

581,995. Food Bag or Carton Filler (Consisting of a Stand, Column, and Adjustable Food Funnel). Sears, Roebuck and Co., Chicago, Ill.
Filed Jan. 9, 1953, Serial No. 640,585. Published Aug. 11, 1953. Class 13.

581,996. Window Shades. Breneman-Hartshorn Inc., Cincinnati, Ohio.
Filed Jan. 12, 1953, Serial No. 640,602. Published Aug. 4, 1953. Class 32.

581,997. Window Shades. Breneman-Hartshorn Inc., Cincinnati, Ohio.
Filed Jan. 12, 1953, Serial No. 640,604. Published Aug. 4, 1953. Class 32.

581,998. Watches. Fink's Jewelers, Inc., Roanoke, Va.
Filed Jan. 12, 1953, Serial No. 640,618. Published June 9, 1953. Class 27.

581,999. Non-Electrical Hair Curlers Not Made of Precious Metal. The Gillette Company, doing business under the name and style of The Toni Company, Boston, Mass.
Filed Jan. 12, 1953, Serial No. 640,624. Published Aug. 11, 1953. Class 40.

582,000. Fabrics in the Piece Made of Cotton, Silk, Wool, and Synthetic Fibers and Mixtures Thereof. Charles Bloom Inc., New York, N. Y.
Filed Jan. 13, 1953, Serial No. 640,666. Published July 28, 1953. Class 42.

582,001. Window Shade Rollers. Breneman-Hartshorn Inc., Cincinnati, Ohio.
Filed Jan. 14, 1953, Serial No. 640,723. Published Aug. 4, 1953. Class 32.

582,002. Combs. Johnson & Johnson, New Brunswick, N. J.
Filed Jan. 14, 1953, Serial No. 640,741. Published July 14, 1953. Class 40.

582,003. Combs. Johnson & Johnson, New Brunswick, N. J.
Filed Jan. 14, 1953, Serial No. 640,742. Published July 14, 1953. Class 40.

582,004. Piece Goods of Cotton, Rayon, and Combinations Thereof. M. Lowenstein & Sons, Inc., New York, N. Y.
Filed Jan. 14, 1953, Serial No. 640,749. Published July 28, 1953. Class 42.

582,005. Automobile Door Safety Locks Operable by Spring Tension and Adapted To Lock the Rear Door on Closing of the Front Door. Hackett-Carlson Company, Saginaw, Mich.
Filed Jan. 16, 1953, Serial No. 640,856. Published Aug. 11, 1953. Class 25.

582,006. Hose Clamps. Wittek Manufacturing Co., Chicago, Ill.
Filed Jan. 16, 1953, Serial No. 640,877. Published Aug. 11, 1953. Class 13.

582,007. Medicinal Tablets for the Treatment of Hypertension. Riker Laboratories, Inc., Los Angeles, Calif.
Filed Jan. 19, 1953, Serial No. 640,964. Published July 7, 1953. Class 18.

582,008. Watch Bearing Plates Carrying Jewel Bearings. Allen V. Tornek, doing business as Allen V. Tornek Co., New York, N. Y.
Filed Jan. 19, 1953, Serial No. 640,977. Published June 9, 1953. Class 27.

582,009. Stiffeners, Being Parts of Boots and Shoes. Ferrersflex, Limited, Higham Ferrers, England.
Filed Jan. 21, 1953, Serial No. 641,035. Published July 28, 1953. Class 39.

582,010. Acoustical Loudspeaker Enclosure Cabinets. R-J Enclosures, Inc., New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,087. Published July 28, 1953. Class 32.

582,011. Fixed Carbon Resistors, Non-Conductive Coil Forms, and Iron Core Coil Forms With and Without Insulated Ends. Speer Carbon Company, St. Marys, Pa.
Filed Jan. 22, 1953, Serial No. 641,156. Published July 14, 1953. Class 21.

582,012. Chemical Additives to Fuel Oil and Lubricating Oil. Carl Mortensen, doing business as U. S. Marine Chemicals Co., New York, N. Y.
Filed Jan. 23, 1953, Serial No. 641,200. Published July 21, 1953. Class 15.

582,013. Non-Electrical Hair Curlers, Barrettes, and Combs. H. Goodman & Sons, Inc., Jersey City, N. J., and New York, N. Y.
Filed Jan. 26, 1953, Serial No. 641,290. Published Aug. 11, 1953. Class 40.

582,014. Woolen and Worsted Fabrics in the Piece. The House of Swansdown, Inc., New York, N. Y.
Filed Jan. 26, 1953, Serial No. 641,302. Published July 28, 1953. Class 42.

582,015. Electric Fans—Namely, Pedestal Fans, Oscillating Fans, Non-Oscillating Fans, Window Ventilating Fans, Etc. Kord Manufacturing Co. Inc., New York, N. Y.
Filed Jan. 27, 1953, Serial No. 641,383. Published July 14, 1953. Class 21.

582,016. Women's, Misses', and Children's Blouses, Nightgowns, Slips, Negligees, Pajamas, Panties, and Bed Jackets. Tailortex Blouse, Inc., Newburgh, N. Y.
Filed Jan. 27, 1953, Serial No. 641,399. Published July 28, 1953. Class 39.

582,017. Electrical Outlet Boxes. Albert J. Iovieno, doing business as Allied Hardware & Stamping Co., New Haven, Conn.
Filed Jan. 28, 1953, Serial No. 641,450. Published July 14, 1953. Class 21.

582,018. Ladies' and Misses' Sportswear—Namely, Suits, Coats, Dresses, Skirts, Blouses, and Sweaters. Mortimer D. Goldman, New York, N. Y.
Filed Jan. 30, 1953, Serial No. 641,552. Published July 28, 1953. Class 39.

582,019. Plastic Cookie-Cutting Molds. Hermann R. Maier, Andover, N. J.
Filed Jan. 30, 1953, Serial No. 641,557. Published July 21, 1953. Class 23.

582,020. Locking Socket for Releasably Locking the Legs of Airplane Seats to the Floor. Aerosmith, Inc., Miami, Fla.
Filed Feb. 2, 1953, Serial No. 641,591. Published Aug. 11, 1953. Class 13.

582,021. Men's Jackets and Sport Jackets. Norman Hilton, Linden, N. J.
Filed Feb. 3, 1953, Serial No. 641,680. Published July 28, 1953. Class 39.

582,022. Decorated Metal Container Caps of the Crown, Screw, Lug, and Pressed-on Types. Crown Cork & Seal Company, Inc., Baltimore, Md.
Filed Feb. 4, 1953, Serial No. 641,716. Published July 14, 1953. Class 50.

582,023. Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fibres. Tanbro Fabrics Corp., New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,989. Published July 28, 1953. Class 42.

582,024. Bottled Salad Dressing. John Ventre, Jr., doing business under the name and style of Ventre Packing Co., Syracuse, N. Y.
Filed Feb. 9, 1953, Serial No. 641,996. Published Aug. 4, 1953. Class 46.

582,025. Furniture—Namely, Tables, Chairs, Benches, Stools, Lounges, Etc. Weatherwood Manufacturing Co., Orange, Tex.
Filed Feb. 10, 1953, Serial No. 642,057. Published July 28, 1953. Class 32.

582,026. Cotton Duck, Cotton Piece Goods, Rayon Piece Goods, and Cotton and Rayon Blend Piece Goods. Mt. Vernon-Woodberry Mills, Inc., Baltimore, Md.
Filed Feb. 11, 1953, Serial No. 642,083. Published July 28, 1953. Class 42.

582,027. Staples. Senco Products, Inc., Cincinnati, Ohio.
Filed Feb. 11, 1953, Serial No. 642,092. Published July 28, 1953. Class 13.

582,028. Staplers and Pneumatic Tackers. Senco Products, Inc., Cincinnati, Ohio.
Filed Feb. 11, 1953, Serial No. 642,093. Published July 28, 1953. Class 23.

582,029. Brassières, Ladies' Foundation Undergarments, and Ladies' Bathing Suits. The La Resista Corset Company, Bridgeport, Conn.
Filed Feb. 12, 1953, Serial No. 642,147. Published July 28, 1953. Class 39.

582,030. Sheets and Pillow Cases. Naumkeag Steam Cotton Company, Salem, Mass.
Filed Feb. 12, 1953, Serial No. 642,156. Published July 28, 1953. Class 42.

582,031. Women's and Misses' Dresses and Evening Gowns. Startime, Inc., New York, N. Y.
Filed Feb. 12, 1953, Serial No. 642,175. Published July 28, 1953. Class 39.

582,032. Purses, Bill Folds, Wallets, and Ladies' Handbags. John B. Stetson Company, Philadelphia, Pa.
Filed Feb. 12, 1953, Serial No. 642,176. Published July 28, 1953. Class 3.

582,033. Chili Sauce. E. W. Rieck, Inc., Chicago, Ill.
Filed Feb. 16, 1953, Serial No. 642,306. Published Aug. 4, 1953. Class 46.

582,034. Self Cleaning Combs. Waterbury Companies Inc., Waterbury, Conn.
Filed Feb. 16, 1953, Serial No. 642,330. Published Aug. 11, 1953. Class 40.

582,035. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed Feb. 17, 1953, Serial No. 642,345. Published July 28, 1953. Class 42.

582,036. Hair Brushes, Clothes Brushes, Dog Brushes, and Body Brushes. Hindes Limited, Birmingham, England.
Filed Feb. 17, 1953, Serial No. 642,352. Published Aug. 4, 1953. Class 29.

582,037. Kid Hair Curlers. S. H. Kress and Company, New York, N. Y.
Filed Feb. 9, 1953, Serial No. 642,444. Published July 28, 1953. Class 40.

582,038. Trading Stamps. B & W Rainbow Stamp Company, Killeen, Tex.
Filed Feb. 19, 1953, Serial No. 642,457. Published July 28, 1953. Class 38.

582,039. Electro-Physiological Device for Generating and Applying Electrical Impulses to a Muscle or Muscles Through Electrodes. Electrodyne Co., Norwood, Mass.
Filed Feb. 20, 1953, Serial No. 642,532. Published Aug. 4, 1953. Class 44.

582,040. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed Feb. 20, 1953, Serial No. 642,538. Published July 28, 1953. Class 42.

582,041. Piston Type Directional Valves; Flow Control, Speed Control, Etc. Keelavite Rotary Pumps & Motors Limited, Allesley, Coventry, England.
Filed Feb. 20, 1953, Serial No. 642,559. Published Aug. 4, 1953. Class 13.

582,042. Gasoline and Lubricating Oil. Republic Oil Refining Company, Pittsburgh, Pa.
Filed Feb. 20, 1953, Serial No. 642,571. Published July 28, 1953. Class 15.

582,043. Child's Combination Chair and Desk Unit. J. L. Weiner Co., St. Louis, Mo.
Filed Feb. 20, 1953, Serial No. 642,585. Published Aug. 11, 1953. Class 32.

582,044. Analgesic Preparation. American Ferment Co., Inc., New York, N. Y.
Filed Feb. 24, 1953, Serial No. 642,593. Published Aug. 11, 1953. Class 18.

582,045. Periodical Published From Time to Time. Electric Steel Foundry, Portland, Oreg.
Filed Feb. 24, 1953, Serial No. 642,629. Published July 28, 1953. Class 38.

582,046. Wax for Skis. Robert Smith-Johannsen, doing business as Smith-Johannsen Wax Co., Niskayuna, N. Y.
Filed Feb. 24, 1953, Serial No. 642,657. Published Aug. 4, 1953. Class 16.

582,047. Newspaper Column. New York Herald Tribune Inc., New York, N. Y.
Filed Feb. 24, 1953, Serial No. 642,684. Published July 28, 1953. Class 38.

582,048. Women's and Girls' Blouses. Pleasure Togs, Inc., Atlanta, Ga.
Filed Feb. 24, 1953, Serial No. 642,689. Published Aug. 4, 1953. Class 39.

582,049. Cartoons. Ace Reid Cartoons, Kerrville, Tex.
Filed Feb. 26, 1953, Serial No. 642,792. Published July 28, 1953. Class 38.

582,050. Ladies' and Misses' Fabric Gloves. Crescendoe Gloves, Inc., Johnstown, N. Y.
Filed Feb. 26, 1953, Serial No. 642,804. Published Aug. 4, 1953. Class 39.

582,051. Watches and Clocks. Norman M. Morris Corporation, New York, N. Y.
Filed Feb. 26, 1953, Serial No. 642,831. Published June 23, 1953. Class 27.

582,052. Catalogues Published Periodically. Supplee-Biddle-Steltz Company, Philadelphia, Pa.
Filed Feb. 26, 1953, Serial No. 642,848. Published July 28, 1953. Class 38.

582,053. Racing Games Comprising a Playboard, Cards, and Dice. Michael John Colleary, Ottawa, Ontario, Canada.
Filed Mar. 2, 1953, Serial No. 642,947. Published Aug. 11, 1953. Class 22.

582,054. Canned Roasted and Peeled Green Chili Peppers; Canned Red Chili Sauce; Canned Green Chili Sauce; Canned Beans With Chili Sauce; and Canned Lima Beans With Chili Sauce. Ramirez & Feraud Chili Co., Ventura, Calif.
Filed Mar. 2, 1953, Serial No. 642,994. Published June 9, 1953. Class 46.

582,055. Belt Backing. Style Supplies Manufacturers, Inc., New York, N. Y.
Filed Mar. 2, 1953, Serial No. 643,004. Published July 28, 1953. Class 40.

582,056. Mineral Body of Porous, Cellular, Finely-Divided, Inert, Sponge-Like Material for Conditioning the Soil. American Bildrok Company, Chicago, Ill.
Filed Mar. 4, 1953, Serial No. 643,063. Published Aug. 11, 1953. Class 10.

582,057. Portable Electrically Operated Vibrating Appliance for Massaging, Etc. The A. C. Gilbert Company, New Haven, Conn.
Filed Mar. 4, 1953, Serial No. 643,094. Published Aug. 4, 1953. Class 44.

582,058. Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures. The National Silk Company, Incorporated, South Coventry, Conn.
Filed Mar. 5, 1953, Serial No. 643,175. Published July 28, 1953. Class 43.

582,059. Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures. The National Silk Company, Incorporated, South Coventry, Conn.
Filed Mar. 5, 1953, Serial No. 643,176. Published July 28, 1953. Class 43.

582,060. Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures. The National Silk Company, Incorporated, South Coventry, Conn.
Filed Mar. 5, 1953, Serial No. 643,177. Published July 28, 1953. Class 43.

582,061. Fishing Tackle—Namely, Fishing Rods, Fishing Reels, Fishing Lines, Leader Material, Fishing Lures, Under Water Spear Guns, Swim Fins, and Fishing Tackle Boxes. Hurricane Manufacturing Company, Miami, Fla.
Filed Mar. 9, 1953, Serial No. 643,325. Published Aug. 4, 1953. Class 22.

582,062. Brassieres. Peter Pan Foundations, Inc., New York, N. Y.
Filed Mar. 9, 1953, Serial No. 643,365. Published Aug. 4, 1953. Class 39.

582,063. Household Deodorants. Van Brode Milling Co., Inc., Clinton, Mass.
Filed Mar. 12, 1953, Serial No. 643,574. Published Aug. 4, 1953. Class 6.

582,064. Jigsaw Puzzle Game. Jaymar Specialty Company, Brooklyn, N. Y.
Filed Mar. 13, 1953, Serial No. 643,593. Published Aug. 4, 1953. Class 22.

582,065. Sausages. The H. H. Meyer Packing Company, Cincinnati, Ohio.
Filed Mar. 16, 1953, Serial No. 643,697. Published Aug. 11, 1953. Class 46.

582,066. Allethrin-Synergist Combinations for Use as Insecticides in the Control of Household, Industrial, and Agricultural Pests. S. B. Penick & Company, New York, N. Y.
Filed Mar. 30, 1953, Serial No. 644,446. Published Aug. 4, 1953. Class 6.

582,067. Insecticidal Formulations Containing Purified Gamma Isomer of Benzene Hexachloride for Use in the Control of Household, Industrial, and Agricultural Pests. S. B. Penick & Company, New York, N. Y.
Filed Mar. 30, 1953, Serial No. 644,447. Published Aug. 4, 1953. Class 6.

582,068. Automobile Seat Covers. Rayco Mfg. Co., Paterson, N. J.
Filed Mar. 31, 1953, Serial No. 644,516. Published Aug. 4, 1953. Class 19.

582,069. Engine Lathes and Radial Drills. The American Tool Works Co., Cincinnati, Ohio.
Filed Apr. 6, 1953, Serial No. 644,709. Published July 14, 1953. Class 23.

582,070. Radiator Leak Sealer, Rust Preventative, and Rust Inhibitor for Water Cooling Systems. Frederic D. Barton, doing business under the fictitious name and style of Bar's Products Supply, Dearborn, Mich.
Filed Apr. 6, 1953, Serial No. 644,714. Published Aug. 4, 1953. Class 6.

582,071. Insecticides, Particularly Adapted for Use in Termite Control and Pest Control. Chapman Chemical Company, Memphis, Tenn.
Filed Apr. 6, 1953, Serial No. 644,733. Published Aug. 4, 1953. Class 6.

582,072. Printing Gum Comprising a Thickener Used in the Textile Printing Industry; Etc. Polymer Industries Inc., Astoria, N. Y.
Filed Apr. 6, 1953, Serial No. 644,787. Published Aug. 4, 1953. Class 6.

582,073. Insect Repellent. Bridgeport Brass Company, Bridgeport, Conn.
Filed Apr. 7, 1953, Serial No. 644,826. Published Aug. 4, 1953. Class 6.

582,074. Gaskets. Victor Manufacturing & Gasket Co., Chicago, Ill.
Filed Apr. 8, 1953, Serial No. 644,939. Published Aug. 4, 1953. Class 35.

582,075. Desiccant for Refrigerants. Ansul Chemical Company, Marinette, Wis.
Filed Apr. 9, 1953, Serial No. 644,950. Published Aug. 4, 1953. Class 6.

582,076. Mixture of Synthetic Odoriferous or Aromatic Chemicals Derived From Lignosulfonic Acid Materials and of Which the Principal Constituent Is Vanillin. The Ontario Paper Company Limited, Township of Thorold, Ontario, Canada.
Filed Apr. 10, 1953, Serial No. 645,055. Published Aug. 4, 1953. Class 6.

582,077. Textile Dyes. Sterling Drug Inc., New York, N. Y.
Filed Apr. 10, 1953, Serial No. 645,081. Published Aug. 4, 1953. Class 6.

582,078. Artificial Lures. Elmer Otis Thompson, Jr., doing business as Thompson's Fishing Tackle Co., Knoxville, Tenn.
Filed Apr. 16, 1953, Serial No. 645,442. Published Aug. 4, 1953. Class 22.

582,079. Preparation for Exterminating Moles. The C. B. Dolge Company, Westport, Conn.
Filed Apr. 10, 1953, Serial No. 645,758. Published Aug. 4, 1953. Class 6.

582,080. Garden Hose. The Gates Rubber Company, Denver, Colo.
Filed Apr. 27, 1953, Serial No. 645,976. Published Aug. 4, 1953. Class 35.

582,081. Artificial Bait—Namely, Bass and Trout Bugs. The Enterprise Manufacturing Company, Akron, Ohio.
Filed Apr. 28, 1953, Serial No. 646,059. Published Aug. 4, 1953. Class 22.

582,082. Board Game Played With Movable Pieces. Milton Bradley Company, Springfield, Mass.
Filed May 1, 1953, Serial No. 646,261. Published Aug. 4, 1953. Class 22.

582,083. Dolls. Alexander-Kins, Inc., New York, N. Y.
Filed May 4, 1953, Serial No. 646,343. Published Aug. 11, 1953. Class 22.

582,084. Automobile Heaters Utilizing Heat From the Engine. Hudson Motor Car Company, Detroit, Mich.
Filed May 19, 1953, Serial No. 647,293. Published Aug. 11, 1953. Class 19.

Service Marks

582,085. Designing, Constructing, Maintaining, and Repairing Displays for Industrial Exhibits. Gardner Displays Company, Pittsburgh, Pa.
Filed Sept. 11, 1947, Serial No. 534,104. Published Aug. 11, 1953. Class 103.

582,086. Cleaning, Repairing, and Adjusting Door Checks, Etc. H. M. Sanders Co., Boston, Mass.
Filed May 12, 1950, Serial No. 597,355. Published Aug. 4, 1953. Class 103.

582,087. Advertising Services To Promote the Sale of Merchandise, Etc. George S. McGinniss, South Norwalk, Conn.
Filed July 26, 1951, Serial No. 616,960. Published Aug. 4, 1953. Class 101.

582,088. Achievement Testing Services, Etc. American Public Health Association, New York, N. Y.
Filed May 1, 1952, Serial No. 628,991. Published Aug. 4, 1953. Class 100.

582,089. Chemically Treating Metal Products of Others To Reduce Rust and Corrosion. Bowman Chemicals, Inc., Los Angeles, Calif.
Filed May 12, 1952, Serial No. 629,544. Published Aug. 4, 1953. Class 106.

582,090. Underwriting of Life, Health, and Accident Insurance. Columbian Mutual Life Insurance Company, Binghamton, N. Y.
Filed May 16, 1952, Serial No. 629,767. Published Aug. 11, 1953. Class 102.

582,091. Services Rendered at Automotive Service Stations and Garages, Etc. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif.
Filed July 25, 1952, Serial No. 633,089. Published Aug. 4, 1953. Class 103.

582,092. Radio and Television Broadcasting Services. Storer Broadcasting Company, Birmingham, Mich.
Filed Sept. 8, 1952, Serial No. 635,000. Published Aug. 4, 1953. Class 104.

582,093. Serving and Dispensing Foods and Beverages in Restaurants. Nedick's, Inc., New York, N. Y.
Filed Nov. 1, 1952, Serial No. 637,497. Published Aug. 4, 1953. Class 100.

582,094. Underwriting of Accident and Sickness Insurance. Bankers Life Company, Des Moines, Iowa.
Filed Nov. 22, 1952, Serial No. 638,468. Published Aug. 11, 1953. Class 102.

582,095. Storage and Packing of Household Goods and for the Transportation of Household Goods by Motor Vehicle. Allied Van Lines, Inc., Broadview, Ill.
Filed Nov. 26, 1952, Serial No. 638,625. Published Aug. 11, 1953. Class 105.

582,096. Advertising the Goods and Services of Sponsors Through a Series of Condensed Operas Through Television and Radio Broadcast Programs. Carlo Vinti, New York, N. Y.
Filed Nov. 26, 1952, Serial No. 638,676. Published Aug. 11, 1953. Class 101.

582,097. Services Relating to the Improvement of Mental Health—Namely, Stimulating and Promoting Interest in Mental Health Problems and Disseminating Information Relative to Mental Health. The National Association for Mental Health, Inc., New York, N. Y.
Filed Jan. 5, 1953, Serial No. 640,351. Published Aug. 11, 1953. Class 100.

582,098. International Air Line Transportation of Passengers and Cargo. Philippine Air Lines, Inc., Manila, Republic of the Philippines, Honolulu, Territory of Hawaii, San Francisco, Calif., New York, N. Y., Chicago, Ill., Los Angeles, Calif., and Washington, D. C.
Filed Jan. 8, 1953, Serial No. 640,523. Published Aug. 11, 1953. Class 105.

582,099. Information Service Rendered to Women, Etc. Frances L. Weiss, doing business under the professional name of Fran Lee, Rye, N. Y.
Filed Feb. 25, 1953, Serial No. 642,788. Published Aug. 4, 1953. Class 107.

582,100. Underwriting of Life, Health, and Accident Insurance. Columbian Mutual Life Insurance Company, Binghamton, N. Y.
Filed Apr. 20, 1953, Serial No. 645,550. Published Aug. 11, 1953. Class 102.

Collective Mark

582,101. Organizing of Chapters in a National Business Society and Maintaining Membership Therein. Walter W. Ross and Company, Inc., doing business as Beta Sigma Phi and sometimes Beta Sigma Phi International, Kansas City, Mo.
Filed Oct. 15, 1951, Serial No. 620,017. Published Aug. 11, 1953. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

582,102. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Essick Manufacturing Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Oct. 18, 1947; amended to application, Supplemental Register, May 1, 1951, Serial No. 538,258.

AIR-POWER

For Weed and Pest Spraying Machines—Namely, Pressure Tanks Carrying Motor Driven Pressure Generators and Combined With Nozzle Carrying Arms or Booms.
Claims use since 1944.

582,103. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Essick Manufacturing Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Oct. 18, 1947; amended to application, Supplemental Register, May 1, 1951, Serial No. 538,259.

AIR-POWER

For Weed and Pest Spraying Machines—Namely, Pressure Tanks Carrying Motor Driven Pressure Generators and Combined With Nozzle Carrying Arms or Booms.
Claims use since 1944.

582,104. (Class 16. Protective and Decorative Coatings.) Herbert J. Marks, doing business as Marks Paint Co., Louisville, Ky. Original filed, act of 1946, Principal Register, Aug. 4, 1949; amended to application, Supplemental Register, June 26, 1953, Serial No. 582,972.

MAR-KOTE

For Ready-Mixed Paints, Varnishes, and Paint Enamels for Interior and Exterior Use—Namely, All-Purpose, Self-Sealing, One Coat Washable Flat Paint; Varnish; Semi-Gloss Enamel Paint; Aluminum Paint; Undercoats, and Porch and Deck Paint.
Claims use since Nov. 1, 1948.

582,105. (Class 49. Distilled Alcoholic Liquors.) Standard Food Products Corp., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Aug. 8, 1949; amended to application, Supplemental Register, Jan. 26, 1953, Serial No. 583,177.

DE VILLE

For Kummel.
Claims use since Jan. 8, 1946.

582,106. (Class 16. Protective and Decorative Coatings.) The Ronor Corporation, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Sept. 12, 1949; amended to application, Supplemental Register, Dec. 13, 1952, Serial No. 584,736.

NU-SPRAY

For Plastic Varnish-Like Coating, Rust Preventive Coating Material, Enamels, and Water-Repellent Coatings for Fabrics.
Claims use since Mar. 10, 1949.

582,107. (Class 37. Paper and Stationery.) Louis Dejonge & Company, New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 3, 1950; amended to application, Supplemental Register, May 18, 1953, Serial No. 591,915.



The lining on the drawing is for shading purposes.
For Paper Protective Coverings for Use With Automobiles.
Claims use since May 10, 1949.

582,108. (Class 16. Protective and Decorative Coatings.) Benjamin Foster Company, Philadelphia, Pa. Original filed, act of 1946, Principal Register, June 3, 1950; amended to application, Supplemental Register, Apr. 26, 1951, Serial No. 598,528.

foster

For Sealer Coatings of Natural and Synthetic Resins and Polymers Thereof, of Asphalt and of Vegetable and Petroleum Oils for Fabrics and for Thermal Insulation, Wood, Masonry, Metal, and Plastic Surfaces; Primer Coatings of Natural and Synthetic Resins and Polymers Thereof, of Asphalt and of Vegetable and Petroleum Oils for Thermal Insulation, Wood, Masonry, and Metal Surfaces; Roof Coatings of Natural and Synthetic Resins and Polymers Thereof, of Asphalt and of Vegetable and Petroleum Oils; Asphalt Foundation Coatings for Parapet and Basement Walls; Moisture-Vapor Resistant Coatings of Natural and Synthetic Resins and Polymers Thereof, of Asphalt and of Vegetable and Petroleum Oils for Thermal Insulation Surfaces; Chassis Undercoatings; Red Lead Paint; Protective Coatings of Natural and Synthetic Resins and Polymers Thereof, of Asphalt and of Vegetable and Petroleum Oils for Metal, Masonry, Foam Glass and Insulation Surfaces; Varnish; and Paint and Paint Enamel for Exterior and Interior Surfaces, Including Masonry, Plaster, Asphalt, Wood, Concrete, and Metal Surfaces.

Claims use since Oct. 24, 1928.

582,109. (Class 26. Measuring and Scientific Appliances.) C. W. Burbridge, doing business under the name of Southwestern Stamp Works, Oklahoma City, Okla., assignor to Southwestern Stamp Works, Oklahoma City, Okla., a firm. Original filed, act of 1946, Principal Register, Nov. 16, 1950; amended to application, Supplemental Register, Aug. 5, 1953, Serial No. 606,453.

DIAL-A-MASURE

For Combined Receptacles and Mechanical Measuring Dispensers for Caked, Granular, and Powdered Materials.

Claims use since Sept. 10, 1950.

582,110. (Class 36. Musical Instruments and Supplies.) Betty E. Silvers (formerly Betty E. Myers), doing business as Vocal Tones, West Los Angeles, Calif. Original filed, act of 1946, Principal Register, Dec. 5, 1950; amended to application, Supplemental Register, Sept. 29, 1952, Serial No. 607,294.

VOCAL TONES

For Grooved Phonograph Records for Developing and Training Teachers and Students in Vocal Exercises and Voice Cultivation.

Claims use since May 9, 1947.

582,111. (Class 22. Games, Toys, and Sporting Goods.) Joseph A. Kaszeta, doing business as Cheshire Industries, New Haven, Conn. Original filed, act of 1946, Principal Register, Mar. 17, 1951; amended to application, Supplemental Register, Nov. 22, 1952, Serial No. 611,479.

KWIK-KLIP

For Metal Clips for Attaching Fish Hooks and the Like to Fishing Lines.

Claims use since Dec. 28, 1950.

582,112. (Class 51. Cosmetics and Toilet Preparations.) R & S Chemical Co., Portland, Oreg. Filed June 2, 1951, Serial No. 614,669.



For Denture Aids.

Claims use since Oct. 1, 1949.

582,113. (Class 22. Games, Toys, and Sporting Goods.) Jacob J. Golomb, doing business under the name and style of Everlast Sporting Goods Mfg. Co., New York, N. Y. Filed June 25, 1951, Serial No. 616,152.



The word "Bag" and the representation of the goods are disclaimed.

For Punching Bag Supported on an Elevated, Resilient, Flexible Rod From a Stand on Which the Exerciser Can Stand and Be Supported.

Claims use since Aug. 1, 1946.

582,114. (Class 37. Paper and Stationery.) Earl M. Fuller, Kansas City, Mo. Original filed, act of 1946, Principal Register, Aug. 24, 1951; amended to application, Supplemental Register, Aug. 3, 1953, Serial No. 618,033.

PROTECTRACTS

The word "Charts" is disclaimed.

For Drafting Charts for Making Perspective Drawings.

Claims use since Aug. 14, 1951.

582,115. (Class 19. Vehicles.) E. L. Schofield, Incorporated, Rockford, Ill. Original filed, act of 1946, Principal Register, Jan. 4, 1952; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 623,212.

Schofield

The drawing is lined for red.

For Automobile Heaters and Parts and Accessories Therefor, and More Particularly Heaters Heated by the Engine-Cooling Medium.

Claims use since Aug. 26, 1949.

582,116. (Class 46. Foods and Ingredients of Foods.) Oscar Mayer & Co., Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 14, 1952; amended to application, Supplemental Register, Nov. 14, 1952, Serial No. 624,963.

SMOKY SNAX

For Sausage Having as Its Principal Ingredients Pork and Beef.

Claims use since Apr. 21, 1943.

582,117. (Class 39. Clothing.) E. Fink & Sons Limited, Northampton, England. Original filed, act of 1946, Principal Register, Feb. 28, 1952; amended to application, Supplemental Register, May 11, 1953, Serial No. 625,669.

Good Companion

Applicant claims ownership of British Registration No. B660,967, dated July 21, 1947.

For Men's Suede Leisure Jackets, Golf Jackets, and Waistcoats.

582,118. (Class 39. Clothing.) Wayne Knitting Mills, Fort Wayne, Ind. Original filed, act of 1946, Principal Register, Mar. 11, 1952; amended to application, Supplemental Register, June 4, 1953, Serial No. 626,280.

YOUR FOOT-SIZE HAS A NUMBER—YOUR LEG-SIZE HAS A NAME

For Women's Hosiery.

Claims use since Mar. 1, 1934.

582,119. (Class 22. Games, Toys, and Sporting Goods.) Shakespeare Company, Kalamazoo, Mich. Original filed, act of 1946, Principal Register, Mar. 13, 1952; amended to application, Supplemental Register, Aug. 20, 1953, Serial No. 626,426.

Built Like a Watch

For Fishing Reels.

Claims use since Sept. 1, 1926.

582,120. (Class 51. Cosmetics and Toilet Preparations.) Cinco, Saginaw, Mich. Original filed, act of 1946, Principal Register, Mar. 29, 1952; amended to application, Supplemental Register, Dec. 8, 1952, Serial No. 627,252

CRUSHABLES

For Cotton-Covered Capsules Containing Perfume.

Claims use since June 8, 1951.

582,121. (Class 39. Clothing.) The Associated Merchandising Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 7, 1952; amended to application, Supplemental Register, Feb. 11, 1953, Serial No. 627,664.

SheerValue

For Women's Hosiery.

Claims use since Jan. 29, 1952.

582,122. (Class 38. Prints and Publications.) Nelson R. Crow Publications, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Apr. 8, 1952; amended to application, Supplemental Register, Aug. 26, 1953, Serial No. 627,734.

Farm-quest

For Magazine.

Claims use since Nov. 27, 1951.

582,123. (Class 46. Foods and Ingredients of Foods.) The Dayton Bread Co., Dayton, Ohio. Original filed, act of 1946, Principal Register, Apr. 10, 1952; amended to application, Supplemental Register, Jan. 30, 1953, Serial No. 627,869.

MIAMI MAID

For Bread, Sandwich Rolls, Sweet Rolls, Danish Pastry, Coffee Cakes, and Doughnuts.

Claims use since November 1927.

582,124. (Class 46. Foods and Ingredients of Foods.) E. G. Whitman & Co. Inc., Philadelphia, Pa. Original filed, act of 1946, Principal Register, Apr. 17, 1952; amended to application, Supplemental Register, July 22, 1953, Serial No. 628,238.

TARTETTES

For Candy.
Claims use since Feb. 14, 1952.

582,125. (Class 46. Foods and Ingredients of Foods.) E. G. Whitman & Company Inc., Philadelphia, Pa. Original filed, act of 1946, Principal Register, Apr. 17, 1952; amended to application, Supplemental Register, July 22, 1953, Serial No. 628,240.

ANISETTES

For Candy.
Claims use since Feb. 14, 1952.

582,126. (Class 22. Games, Toys, and Sporting Goods.) Tri-State Plastic Molding Co., Inc., Henderson, Ky. Original filed, act of 1946, Principal Register, Apr. 18, 1952; amended to application, Supplemental Register, Aug. 17, 1953, Serial No. 628,309.

BRICK TOWN

For Toy Building Blocks of Plastic Material.
Claims use since Mar. 7, 1952.

582,127. (Class 32. Furniture and Upholstery.) S. S. & S. Manufacturing Co., Evansville, Ind. Original filed, act of 1946, Principal Register, May 1, 1952; amended to application, Supplemental Register, June 23, 1953, Serial No. 629,058.

TARKINGTON FURNITURE

For Furniture—Namely, Desks, Chairs, Sofas, Beds, Dressers, Vanities, Chests of Drawers, Night Tables, Coffee Tables, China Closets, and Breakfronts.
Claims use since June 1951.

582,128. (Class 46. Foods and Ingredients of Foods.) John W. Brosnan, doing business under the name and style of Calfol Feed Company, Culver City, Calif. Original filed, act of 1946, Principal Register, May 26, 1952; amended to application, Supplemental Register, June 19, 1953, Serial No. 630,258.

CALFOL

For Feed for Livestock, Poultry, Pigeons, Foxes, Mink, and Rabbits.
Claims use since Jan. 9, 1952.

582,129. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Mary Herrera, New York, N. Y. Original filed, act of 1946, Principal Register, May 29, 1952; amended to application, Supplemental Register, Apr. 21, 1953, Serial No. 630,495.

Ezee Vue Ever Tidy

For Ladies' Handbags.
Claims use since March 1952.

582,130. (Class 51. Cosmetics and Toilet Preparations.) John W. Farrell, doing business as Regiment Products, Kansas City, Mo. Original filed, act of 1946, Principal Register, June 23, 1952; amended to application, Supplemental Register, June 24, 1953, Serial No. 631,612.

TRIP PACK

For Toilet Kits Containing Packages of Shaving Cream, After-Shave Cream, Toothpaste, and Hair Cream.
Claims use since Mar. 1, 1952.

582,131. (Class 39. Clothing.) Robert Mann, Inc., New York, N. Y. Filed July 3, 1952, Serial No. 632,123.

Mann
CLASSICS
FASHIONED BY *Mario*

For Ladies' and Misses' Outerwear—Namely, Coats, Suits, Jackets, and Skirts.
Claims use since Dec. 2, 1946.

582,132. (Class 46. Foods and Ingredients of Foods.) Southern Citrus Association, Redlands, Calif. Filed Aug. 4, 1952, Serial No. 633,469.

TOP VALUE

Applicant claims ownership of Registration No. 373,669
For Fresh Citrus Fruits.
Claims use since Dec. 7, 1937.

582,133. (Class 26. Measuring and Scientific Appliances.) Donald L. Golden, Detroit, Mich. Original filed, act of 1946, Principal Register, Aug. 11, 1952; amended to application, Supplemental Register, July 21, 1953, Serial No. 633,724.

CONCĒLA-LENS

For Ophthalmic Contact Lenses.
Claims use since Feb. 11, 1952.

582,134. (Class 37. Paper and Stationery.) Listo Pencil Corporation, Alameda, Calif. Original filed, act of 1946, Principal Register, Aug. 20, 1952; amended to application, Supplemental Register, Aug. 14, 1953, Serial No. 634,230.

FREEZER-WRITE

For Marking Pencils.
Claims use since July 15, 1952.

582,135. (Class 40. Fancy Goods, Furnishings, and Notions.) The Reddy Company, Inc., Montpelier, Vt. Original filed, act of 1946, Principal Register, Aug. 27, 1952; amended to application, Supplemental Register, Mar. 17, 1953, Serial No. 634,546.

SAFE-T-LOX

For Safety Pins.
Claims use since June 10, 1950.

582,136. (Class 32. Furniture and Upholstery.) Allen Manufacturing Company, Columbus, Ohio. Original filed, act of 1946, Principal Register, Sept. 22, 1952; amended to application, Supplemental Register, Aug. 19, 1953, Serial No. 635,575.

HealthFOAM

For Pillows and Mattresses.
Claims use since December 1949.

582,137. (Class 21. Electrical Apparatus, Machines, and Supplies.) Lakeside Manufacturing Company, Milwaukee, Wis. Original filed, act of 1946, Principal Register, Sept. 22, 1952; amended to application, Supplemental Register, Apr. 15, 1953, Serial No. 635,599.

Hot Top

For Electrically Heated Serving Tables.
Claims use since Mar. 1, 1952.

582,138. (Class 46. Foods and Ingredients of Foods.) Live Food Products Co., Burbank, Calif. Original filed, act of 1946, Principal Register, Oct. 18, 1952; amended to application, Supplemental Register, June 23, 1953, Serial No. 636,853.

CHOCO-LIKE

For Imitation of Chocolate From Natural Food Sources in Packaged Form and Used as an Ingredient in Making Cakes, Frostings, Puddings, Milk Shakes, and Food Beverages.
Claims use since June 9, 1952.

582,139. (Class 38. Prints and Publications.) Bouregy & Curl, Inc., also doing business as Mystery House, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 30, 1952; amended to application, Supplemental Register, Aug. 5, 1953, Serial No. 637,358.

Mystery House

For Books.
Claims use since July 15, 1952.

582,140. (Class 39. Clothing.) Bert Charon, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 19, 1952; amended to application, Supplemental Register, Apr. 30, 1953, Serial No. 638,287.

THE *Kandahar* by BERT CHARON

For Women's and Girls' Sweaters.
Claims use since 1950.

582,141. (Class 32. Furniture and Upholstery.) Gilton Mfg. Corp., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Nov. 29, 1952; amended to application, Supplemental Register, Aug. 20, 1953, Serial No. 638,764.

GILTON
CHROME METAL PRODUCTS OF DISTINCTION

The drawing is lined for red and black.
For Tubular Chairs, Stools, Portable Towel Racks, Bath Stools, and Portable Shoe Racks.
Claims use since Apr. 3, 1952.

582,142. (Class 38. Prints and Publications.) Orthopedic Appliance and Limb Manufacturers Association, Washington, D. C. Filed May 4, 1953, Serial No. 646,418.

Orthopedic
and
Prosthetic
Appliance
Journal

For Periodical.
Claims use since March 1952.

Service Mark

582,143. (Class 100. Miscellaneous.) Aircraft Armaments, Inc., Baltimore, Md. Original filed, act of 1946, Principal Register, Dec. 4, 1951; amended to application, Supplemental Register, May 21, 1953, Serial No. 622,061.

AIRCRAFT ARMAMENTS INC.

For Engineering Consultation and Advice in the Fields of Aeronautics and Ordnance; and Designing and Testing of Mechanical and Electrical Apparatus To Be Used in Said Fields.

Claims use since Sept. 13, 1950.

Certification Mark

582,144. (Class 103. Construction and Repair.) Registered Locksmiths' Guild of America, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 21, 1952; amended to application, Supplemental Register, Jan. 19, 1953, Serial No. 628,426.

APPROVED LOCKSMITHS' GUILD OF AMERICA REGISTERED LOCKSMITH

For Locksmithing—Namely, Repairing of Locks.

Claims use since Dec. 13, 1951.

TRADE-MARK REGISTRATIONS RENEWED

91,446. CLIMAX. Registered May 6, 1913. Aspegren & Co., New York, N. Y. Re-renewed May 6, 1953, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Cotton-Seed Oil. Class 46.

91,448. ORO. Registered May 6, 1913. Aspegren & Co., New York, N. Y. Re-renewed May 6, 1953, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Cotton-Seed Oil. Class 46.

91,464. BOINO. Registered May 6, 1913. Davies & Meacham. Re-renewed May 6, 1953, to The Patterson-Sargent Company, Cleveland, Ohio, a corporation of Ohio. Mixed Paints. Class 16.

92,058. "EXELENTO" AND DESIGN. Registered June 17, 1913. Exelento Medicine Co. Re-renewed June 17, 1953, to Exelento Medicine Company, Atlanta, Ga., a corporation of Georgia. Quinin Pomade, Liniment, and Skin-Lotion. Class 51.

92,939. GUYOT. Registered Aug. 12, 1913. P. Bailly & Cie. Re-renewed Aug. 12, 1953, to P. Bailly & Cie., Paris, France, a joint stock company. Shoulder Braces and Suspenders. Class 39.

93,106. "MORCO". Registered Aug. 19, 1913. Moore Drop Forging Company, Springfield, Mass., a corporation of Massachusetts. Re-renewed Aug. 19, 1953. Wrenches. Class 23.

93,250. REXALL. Registered Aug. 26, 1913. United Drug Company, Boston, Mass. Re-renewed Aug. 26, 1953, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Shampoo-Paste, Hair Tonic, Depilatory, Etc. Class 51.

93,264. CROMPTON. Registered Sept. 2, 1913. Crompton Company. Re-renewed Sept. 2, 1953, to Crompton Company, Crompton, R. I., a corporation of Delaware. Velvets, Velveteens, Plushes, Etc. Class 42.

93,452. NO D K. Registered Sept. 16, 1913. Lyster Chemical Co., Lawrence, Mass. Re-renewed Sept. 16, 1953, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey. Preparation for Preserving Wood. Class 6.

94,035. "FASTEP" AND DESIGN. Registered Oct. 28, 1913. Voupié Company. Re-renewed Oct. 28, 1953, to E. Fougera & Co., Inc., New York, N. Y., a corporation of New York. Foot-Powder. Class 51.

94,168. "THE EDITOR" ETC. AND DESIGN. Registered Nov. 11, 1913. The Editor & Publisher Co., New York, N. Y., a corporation of New York. Re-renewed Nov. 11, 1953. Newspapers. Class 38.

94,433. "THE EDITOR AND PUBLISHER" ETC. Registered Dec. 9, 1913. The Editor & Publisher Co., New York, N. Y., a corporation of New York. Re-renewed Dec. 9, 1953. Newspapers. Class 38.

302,573. REPRESENTATION OF SPANISH TROUBADOR, ETC. Registered Apr. 25, 1933. Mrs. G. E. Clausen, doing business as C. B. Gentry Chili Powder Co., Los Angeles, Calif. Renewed Apr. 25, 1953, to Consolidated Grocers Corporation, Chicago, Ill., a corporation of Maryland. Chili Powder. Class 46.

302,858. "PLYMOUTH" AND DESIGN. Registered May 2, 1933. The J. T. Robertson Company, doing business as Plymouth Products Company, Syracuse, N. Y. Renewed May 2, 1953, to The Hewitt Soap Company, Inc., Dayton, Ohio, a corporation of Ohio. Soaps. Class 52.

302,895. "GREEN SEAL" AND REPRESENTATION OF CARTON LINED FOR RED AND GREEN. Registered May 2, 1933. Noah's Ark Auto Accessories, Inc., Rochester, N. Y., a corporation of New York. Renewed May 2, 1953. Radio Tubes. Class 21.

303,761. VELVET. Registered June 6, 1933. H. L. G. Company, Kalamazoo, Mich. Renewed June 6, 1953, to Gerald E. White, doing business as Velvet Service Company, Middleville, Mich. Mechanical Water Softeners. Class 23.

304,294. LEEDALL. Registered June 27, 1933. Davega-City Radio Stores, Inc. Renewed June 27, 1953, to Davega Stores Corporation, New York, N. Y., a corporation of New York. Golf Balls. Class 22.

304,648. FLEETWING. Registered July 11, 1933. Davega-City Radio Stores, Inc. Renewed July 11, 1953, to Davega Stores Corporation, New York, N. Y., a corporation of New York. Roller Skates and Handball Gloves. Class 22.

305,285. BITUSIZE. Registered Aug. 8, 1933. American Bitumuls Company, Wilmington, Del., and San Francisco, Calif. Renewed Aug. 8, 1953, to American Bitumuls & Asphalt Company, San Francisco, Calif., a corporation of Delaware. Asphalt, Asphalt Binders, Asphaltic Emulsions and Compounds, Bituminous Emulsions. Class 12.

305,464. KLENZO. Registered Aug. 15, 1933. United Drug Company, Boston, Mass. Renewed Aug. 15, 1953, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Tooth, Nail, Hair, Clothes, Hat, Complexion, Bath, Eyebrow, Hand, Lather, Military, and Shampoo Brushes. Class 29.

305,557. CORDURELLA. Registered Aug. 22, 1933. Crompton-Richmond Company, Inc., New York, N. Y. Renewed Aug. 22, 1953, to Crompton Company, Crompton, R. I., a corporation of Delaware. Pile Fabrics, Including Corduroys and Plushes. Class 42.

305,629. HERBA-VITA. Registered Aug. 22, 1933. Hugh D. Hart, doing business as Herba-Vita Company, Camden, N. J. Renewed Aug. 22, 1953, to Herba-Vita Company, Itasca, Ill., a partnership. Tonic Laxative Medicine Formed From a Vegetable Blend of Herbs for the Treatment of Constipation. Class 18.

305,685. REPRESENTATION OF QUARTERED CIRCLE. Registered Aug. 22, 1933. Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed Aug. 22, 1953. Headed Screw Machine Products—Namely, Upset Head Machine Screws, Carriage Bolts, Etc. Class 13.

305,984. WINDOLENE. Registered Aug. 29, 1933. Reckitts (New York) Ltd. Renewed Aug. 29, 1953, to The R. T. French Company, Rochester, N. Y., a corporation of Delaware. Preparations for Cleaning and Polishing Glass. Class 4.

306,080. ROCK CORK. Registered Sept. 5, 1933. Johns-Manville Corporation, New York, N. Y., a corporation of New York. Renewed Sept. 5, 1953. Thermal Insulation. Class 12.

306,213. STELCON. Registered Sept. 12, 1933. N. V. Betonfabriek De Meteoor, De Steeg, Community of Rheden, Netherlands, a limited liability company organized under the laws of the Netherlands. Renewed Sept. 12, 1953. Concrete Tiles, Concrete Plates, and Concrete Curbstones, Concrete Blocks, Etc. Class 12.

306,377. "SUNRAY OILS" ETC. AND DESIGN. Registered Sept. 19, 1933. The Sunray Oil Corporation, New York, N. Y. Renewed Sept. 19, 1953, to Sunray Oil Corporation, Tulsa, Okla., a corporation of Delaware. Lubricating Oils and Greases. Class 15.

306,459. COTO FLAKES. Registered Sept. 19, 1933. The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Renewed Sept. 19, 1953. Hydrogenated Flaked Cottonseed Oil Used as a Food. Class 46.

306,601. KRABYN. Registered Sept. 26, 1933. Kraft-Phenix Cheese Corporation. Renewed Sept. 26, 1953, to Kraft Foods Company, Chicago, Ill., a corporation of Delaware. Vegetable Extract Used as a Stabilizer for Food Products, e. g., Cheese and Ice Cream. Class 46.

306,767. CHARMANTE VEILS. Registered Sept. 26, 1933. Fuld & Helmendinger. Renewed Sept. 26, 1953, to Novik & Co. Inc., New York, N. Y., a corporation of New York. Veils and Hair Nets. Class 39.

306,770. FIBROCEL. Registered Sept. 26, 1933. Johns-Manville Corporation, New York, N. Y., a corporation of New York. Renewed Sept. 26, 1953. Thermal Insulation Material. Class 12.

306,793. "BENNETT'S" AND DESIGN. Registered Sept. 26, 1933. Bennett Glass & Paint Company. Renewed Sept. 26, 1953, to Bennett's, Salt Lake City, Utah, a corporation of Utah. Self-Polishing Floor Wax and Paste Floor Wax. Class 4.

306,978. "APEX" ETC. AND DESIGN. Registered Oct. 10, 1933. Gottesman & Company, Incorporated, New York, N. Y., a corporation of New York. Renewed Oct. 10, 1953. Wood Pulp. Class 1.

306,979. "ATLAS" ETC. AND DESIGN. Registered Oct. 10, 1933. Gottesman & Company, Incorporated, New York, N. Y., a corporation of New York. Renewed Oct. 10, 1953. Wood Pulp. Class 1.

306,982. "TIGER" ETC. AND DESIGN. Registered Oct. 10, 1933. Gottesman & Company, Incorporated, New York, N. Y., a corporation of New York. Renewed Oct. 10, 1953. Wood Pulp. Class 1.

307,177. COMPARISON BOND. Registered Oct. 17, 1933. Hampshire Paper Company, South Hadley Falls, Mass. Renewed Oct. 17, 1953, to Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts. Writing and Printing Paper. Class 37.

307,268. TUBORG. Registered Oct. 24, 1933. Aktieselskabet De Forenede Bryggerier, Copenhagen, Denmark, a joint-stock company organized under the laws of Denmark. Renewed Oct. 24, 1953. Malt Beverages With Not More Than the Legal Alcoholic Content. Class 48.

307,314. "FACHO CAP CO." AND DESIGN. Registered Oct. 24, 1933. Facho Cap Company. Renewed Oct. 24, 1953, to A. L. Chamness, doing business as Facho Cap Company, Dallas, Tex. Children's Caps and Berets. Class 39.

307,659. "ANCHOR" ETC. AND DESIGN. Registered Oct. 31, 1933. Gottesman & Company, Incorporated, New York, N. Y., a corporation of New York. Renewed Oct. 31, 1953. Wood Pulp. Class 1.

307,661. POLAR G. Registered Oct. 31, 1933. Gottesman & Company, Incorporated, New York, N. Y., a corporation of New York. Renewed Oct. 31, 1953. Wood Pulp. Class 1.

307,740. "MELCO" ETC. AND DESIGN. Registered Oct. 31, 1933. Melchior, Armstrong, Dessau Co. of Delaware, Inc., New York, N. Y. Renewed Oct. 31, 1953, to Melchior, Armstrong, Dessau Co. of Delaware, Inc., Ridgefield, N. J., a corporation of Delaware. Replacement Parts for Domestic and Commercial Refrigerators. Class 31.

307,862. DECLARATION BOND. Registered Nov. 7, 1933. Carew Manufacturing Company, South Hadley Falls, Mass. Renewed Nov. 7, 1953, to Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts. Writing and Printing Paper. Class 37.

307,927. NOVOLA. Registered Nov. 14, 1933. Planters Edible Oil Company, Suffolk, Va., a corporation of Pennsylvania. Renewed Nov. 14, 1953. Cooking and Salad Oil. Class 46.

307,982. ESQUIRE. Registered Nov. 14, 1933. Pioneer Suspender Company, Philadelphia, Pa. Renewed Nov. 14, 1953, to Pioneer Suspender Company, Darby, Pa., a corporation of Pennsylvania. Belt Buckles of Non-Precious Metal. Class 40.

307,995. KRACENE. Registered Nov. 14, 1933. Kraft-Phenix Cheese Corporation. Renewed Nov. 14, 1953, to Kraft Foods Company, Chicago, Ill., a corporation of Delaware. Casein Precipitating Agent. Class 46.

308,161. SPOTINE. Registered Nov. 21, 1933. Skelly Oil Company, Tulsa, Okla. Renewed Nov. 21, 1953, to Skelly Oil Company, Kansas City, Mo., a corporation of Delaware. Spotting and Cleaning Fluid in the Nature of a Dry Cleaning Preparation. Class 52.

308,299. ESQUIRE. Registered Nov. 28, 1933. Pioneer Suspender Company, Philadelphia, Pa. Renewed Nov. 28, 1953, to Pioneer Suspender Company, Darby, Pa., a corporation of Pennsylvania. Belt Buckles of Precious or in Part Precious Metal. Class 28.

308,565. SI-FLO. Registered Dec. 12, 1933. Speakman Company, Wilmington, Del., a corporation of Delaware. Renewed Dec. 12, 1953. Flush Valves. Class 13.

308,615. THERMOLAIN. Registered Dec. 12, 1933. The Star Porcelain Company, Trenton, N. J., a corporation of New Jersey. Renewed Dec. 12, 1953. Electrical Insulating Compound in Molded Form. Class 21.

308,616. VITROLAIN. Registered Dec. 12, 1933. The Star Porcelain Company, Trenton, N. J., a corporation of New Jersey. Renewed Dec. 12, 1953. Electrical Insulating Compound in Molded Form. Class 21.

308,670. "RED HEART" AND DESIGN LINED FOR RED. Registered Dec. 12, 1933. John Morrell & Co., Ottumwa, Iowa, a corporation of Maine. Renewed Dec. 12, 1953. Canned Food for Dogs, Cats, Foxes, and Other Carnivorous Animals. Class 46.

308,756. "SKELCO" ETC. AND DESIGN. Registered Dec. 19, 1933. Skelly Oil Company, Tulsa, Okla. Renewed Dec. 19, 1953, to Skelly Oil Company, Kansas City, Mo., a corporation of Delaware. Batteries and Spark Plugs. Class 21.

308,845. DOWICIDE. Registered Dec. 26, 1933. The Dow Chemical Company. Renewed Dec. 26, 1953, to The Dow Chemical Company, Midland, Mich., a corporation of Delaware. Insecticides, Fungicides, Germicides, Antiseptics, Disinfectants, and Preservatives Against Moulding, Etc. Class 6.

308,939. ZIP. Registered Dec. 26, 1933. Skelly Oil Company, Tulsa, Okla. Renewed Dec. 26, 1953, to Skelly Oil Company, Kansas City, Mo., a corporation of Delaware. Cigar Lighter Fluid. Class 6.

308,990. EQUITY TRUST BOND. Registered Dec. 26, 1933. Hampshire Paper Company, South Hadley Falls, Mass. Renewed Dec. 26, 1953, to Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts. Writing and Printing Paper. Class 37.

308,994. "MORRELL'S" ETC. AND DESIGN. Registered Dec. 26, 1933. John Morrell & Co., Ottumwa, Iowa, a corporation of Maine. Renewed Dec. 26, 1953. Coffee. Class 46.

309,081. K OF K. Registered Jan. 2, 1934. Kohler Co., Kohler, Wis., a corporation of Wisconsin. Renewed Jan. 2, 1954. Closet Seats and Closet Seat Bumpers. Class 13.

309,168. ALICE IN WONDERLAND. Registered Jan. 2, 1934. The Richardson Company, Lockland, Ohio. Renewed Jan. 2, 1954, to Plastic Art Toy Corporation of America, East Paterson, N. J., a corporation of New Jersey. Doll's Tea Set. Class 22.

309,590. SUNNY-BRITE. Registered Jan. 23, 1934. M. J. Merkin Paint Co., Inc., New York, N. Y., a corporation of New York. Renewed Jan. 23, 1954. Liquid Paint or Enamel, Used to Paint or Enamel Surfaces, Particularly Interiors of Buildings, Containing Lithopone, Etc. Class 16.

309,654. MONTROSE. Registered Jan. 23, 1934. Pennsylvania Distilling Co., Inc., Logansport, Pa., and Brooklyn, N. Y. Renewed Jan. 23, 1954, to Joseph S. Finch and Company, Schenley, Pa., a corporation of Pennsylvania. Whisky. Class 49.

309,722. NUCOA. Registered Jan. 30, 1934. The Best Foods, Inc., New York, N. Y., and Chicago, Ill. Renewed Jan. 30, 1954, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey. Oleomargarine. Class 46.

309,752. "ETERNALOCK" AND HEAVY UNDERLINE. Registered Jan. 30, 1934. Gorham Manufacturing Company, Providence, R. I., a corporation of Rhode Island. Renewed Jan. 30, 1954. Bronze Cinerary Urns. Class 2.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

368,101. PERX. Registered June 6, 1939. Perx Company, Chicago, Ill. Tooth Paste. Class 51 (formerly Class 6). Canceled Oct. 2, 1953. Canc. No. 6043.

540,632. "PENNA. DUTCH PRODUCTS" AND DESIGN. Registered Apr. 10, 1951. Five Acres Farm, Telford, Pa. Piccalilli, Jams, Etc. Class 46. Canceled Sept. 18, 1953. Canc. No. 6027.

554,861. PUTNAM NON SLIP FINISH. Registered Feb. 12, 1952. Putnam Finishing Company, Mechanicsville, Conn. The Dyeing of Rayon, Silks, and Acetates. Class 106. Canceled Oct. 2, 1953. Canc. No. 5863.

557,419. LINCOLN. Registered June 5, 1951. Marshall-Wells Company, Duluth, Minn. Electric Storage Batteries, Etc. Class 21. Canceled Sept. 25, 1953. Section 7(d).

568,104. SPARTAN. Registered Dec. 16, 1952. Groves Thread Company, Gastonia, N. C. Thread. Class 43. Canceled Sept. 18, 1953. Canc. No. 6118.

569,348. "EMI" AND DESIGN. Registered Jan. 20, 1953. Electric & Musical Industries Limited, Hayes, Middlesex, England. Phonographic Styluses. Class 36. Canceled Sept. 25, 1953. Canc. No. 6073.

579,071. DOALL. Registered Aug. 25, 1953. The Doall Company, Des Plaines, Ill. Supply Cabinets. Class 32. Canceled Sept. 25, 1953. Canceled as inadvertently issued, and the file is restored to the Examiner of Trade-Marks as a pending application.

TRADE-MARK REGISTRATIONS AMENDED. DISCLAIMED, CORRECTED, ETC.

578,847. MANFIELD. Registered Aug. 18, 1953. Manfield and Sons, Limited, Northampton, England. Boots and Shoes for Men and Women. Class 39. Corrected as follows: In the statement, column 2, line 8, after "(expired)." insert the following paragraphs:

Registration is requested under the provisions of sec. 2(f) of said act, the mark being claimed to have become distinctive of the applicant's goods in commerce which may lawfully be regulated by the Congress through substantially exclusive and continuous use thereof as a mark by the applicant in commerce between the United States and the United Kingdom of Great Britain and Northern Ireland and among the States for the five years next preceding the filing of the application.

Applicant's claim of right to exclusive use is subject to the exception that the mark may be legitimately used in commerce subject to lawful regulation by the Congress by the following related company whose use of the mark inures to the benefit of the applicant such related company being controlled by the applicant with respect to the nature and quality of the goods in connection with which the mark is used by (stock ownership); Manfield England Inc., a corporation duly organized and existing pursuant to the laws of the State of Ohio, located and doing business in Portsmouth, Ohio, and whose postal address is % Selby Shoe Co., Portsmouth, Ohio.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Reg. No. 231,081. Registered Aug. 9, 1927. Hartmann Trunk Company, Racine, Wis. Republished by Hartmann Company, Racine, Wis., a corporation of Wisconsin.

TOUROBE

For Wardrobe Suitcases.
Claims use since Mar. 2, 1927.

Reg. No. 236,270. Registered Dec. 6, 1927. Hartmann Trunk Company, Racine, Wis. Republished by Hartmann Company, Racine, Wis., a corporation of Wisconsin.

Aerobe

For Wardrobe Suitcases.
Claims use since June 22, 1927.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 340,036. Registered Oct. 27, 1936. Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany, a corporation under the laws of Germany. Republished by registrant.

TYLOSE

For Cellulose Ethers and Products Derived Therefrom, Suitable for Various Uses in the Industrial Arts.
Claims use since about Dec. 16, 1931.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 223,369. Registered Feb. 1, 1927. American Encaustic Tiling Company, Ltd., Zanesville, Ohio, Maurer, N. J., Los Angeles, Calif., New York, N. Y., Chicago, Ill., and St. Louis, Mo. Republished by Gladding McBean & Company, Los Angeles, Calif., a corporation of California.

"HERMOSA"

The word "Hermosa" is disclaimed apart from the mark as shown.
For Ceramic Wall, Floor, and Ceiling Tiles and Ceramic Tiles Adapted for Use as Fixtures.
Claims use since July 21, 1926.

CLASS 15

OILS AND GREASES

Reg. No. 84,347. Registered Nov. 28, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

CAPELLA

For Lubricating Oils.
Claims use since Mar. 20, 1911.

Reg. No. 84,417. Registered Dec. 12, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

NABOB

For Lubricating Oils.
Claims use since April 1911.

Reg. No. 84,418. Registered Dec. 12, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

PINNACLE

For Lubricating Oils.
Claims use since April 1911.

Reg. No. 84,419. Registered Dec. 12, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

LEADER

For Lubricating Oils.
Claims use since April 1911.

Reg. No. 84,421. Registered Dec. 12, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

VANGUARD

For Lubricating Oils.
Claims use since April 1911.

Reg. No. 84,425. Registered Dec. 12, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

HONOR

For Lubricating Oils.
Claims use since April 1911.

Reg. No. 84,427. Registered Dec. 12, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y., Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

VALOR

For Lubricating Oils.
Claims use since April 1911.

Reg. No. 84,428. Registered Dec. 12, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

PELICAN

For Lubricating Oils.
Claims use since April 1911.

Reg. No. 84,431. Registered Dec. 12, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

ALCAID

For Lubricating Oils.
Claims use since June 2, 1911.

Reg. No. 84,433. Registered Dec. 12, 1911. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Republished by The Texas Company, New York, N. Y., a corporation of Delaware.

DOLPHIN

For Lubricating Oils.
Claims use since June 2, 1911.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 430,992. Registered July 1, 1947. Rosemarie Lewis, doing business as Vogarell Products Company, Los Angeles, Calif. Republished by registrant.

ENECOL

For Enema Powder.
Claims use since Apr. 17, 1946.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Reg. No. 316,036. Registered Aug. 14, 1934. The Kilgore Manufacturing Company, Westerville, Ohio. Republished by Kilgore, Inc., Westerville, Ohio, a corporation of Ohio.

PAL

For Toy Pistols.
Claims use since Jan. 12, 1933.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 166,786. Registered Apr. 17, 1923. American Machine Products Co., Detroit, Mich. Republished by Greenfield Tap and Die Corporation, Greenfield, Mass., a corporation of Massachusetts.

AMPCO

For Twist Drills, Milling Cutters, and Reamers.
Claims use since November 1917.

Reg. No. 345,832. Registered May 11, 1937. Plastic Binding Corporation, Chicago, Ill., a corporation of Delaware. Republished by registrant.

Plastic

For Machines for Applying Bindings to Stacks of Paper or the Like.
Claims use since June 3, 1935.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 381,250. Registered Sept. 17, 1940. Weaver Manufacturing Company, Springfield, Ill., a corporation of Illinois. Republished by registrant.

RayoScope

For Automobile Headlight Testers.
Claims use since Mar. 13, 1940.

Reg. No. 381,264. Registered Sept. 17, 1940. Weaver Manufacturing Company, Springfield, Ill., a corporation of Illinois. Republished by registrant.

RAYOSCOPE

For Automobile Headlight Testers.
Claims use since Mar. 13, 1940.

CLASS 37

PAPER AND STATIONERY

Reg. No. 273,012. Registered July 15, 1930. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

LIGHTHOUSE

For Ledger and Bond Paper.
Claims use since Feb. 27, 1930.

Reg. No. 273,794. Registered Aug. 12, 1930. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

CONSULAR BOND

The word "Bond" is disclaimed apart from the mark as shown.
For Writing and Printing Paper.
Claims use since Mar. 12, 1930.

Reg. No. 274,366. Registered Aug. 26, 1930. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

CHRONICLE

For Writing and Printing Paper.
Claims use since Apr. 19, 1930.

Reg. No. 274,382. Registered Aug. 26, 1930. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

APPELLATE

For Writing and Printing Paper.
Claims use since Apr. 26, 1930.

Reg. No. 277,377. Registered Nov. 11, 1930. Hampshire Paper Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

CUSTOMS BOND

The word "Bond" is disclaimed apart from the mark as shown.
For Writing and Printing Paper.
Claims use since Oct. 14, 1926.

Reg. No. 277,502. Registered Nov. 11, 1930. Hampshire Paper Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

WHITEHALL

For Writing and Printing Paper.
Claims use since Feb. 13, 1928.

CLASS 39

CLOTHING

Reg. No. 217,643. Registered Sept. 7, 1926. Gordon & Ferguson, Inc., St. Paul, Minn., a corporation of Minnesota. Republished by registrant.

FIELD AND STREAM

For Leather Blouses, Leather Vests, Sheep-Lined Jackets, and Sheep-Lined Coats.
Claims use since on or about Sept. 1, 1915.

Reg. No. 358,770. Registered July 26, 1938. I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York. Republished by registrant.

Sava-wave

For Bathing Caps.
Claims use since Nov. 1, 1936.

Reg. No. 371,078. Registered Sept. 19, 1939. I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York. Republished by registrant.

Olympic

For Bathing Caps of Rubber.
Claims use since September 1932.

Reg. No. 406,348. Registered Mar. 28, 1944. Siegel Bros. Garment Corp., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

LUSTRALAMA

For Ladies' and Misses' Coats and Suits of Fabrics Containing a Substantial Content of Llama Wool.
Claims use since Aug. 11, 1942.

Reg. No. 415,307. Registered Aug. 7, 1945. Siegel Bros. Garment Corp., New York, N. Y., now by change of name Leeds Ltd. Coats, Inc. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

WINTERIZED

For Removable Cut-Out Linings for Ladies' and Misses' Coats and Suits.
Claims use since July 22, 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 303,342. Registered May 23, 1933. Archer Rubber Company, Milford, Mass., a corporation of Massachusetts. Republished by registrant.

CHERVEL

For Rubberized Fabrics.
Claims use since July 1, 1932.

Reg. No. 342,873. Registered Feb. 2, 1937. Siegel Bros. Kiki Maid Koats, Inc., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

TAWNA MIST

For Piece Goods Made of Wool, Cotton, Rayon, Silk, Artificial Silk, Artificial Fibers, and Combinations of the Same.
Claims use since July 1, 1936.

Reg. No. 348,695. Registered Aug. 3, 1937. Botany Worsted Mills, Passaic, N. J. Republished by Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey.

Chinka

For Woolen Piece Goods.
Claims use since Nov. 17, 1936.

Reg. No. 408,852. Registered Aug. 29, 1944. Siegel Bros. Garment Corp., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

LUSTRALAMA

For Woolen and Worsted Fabrics in the Piece Having a Substantial Content of Llama's Hair.
Claims use since Aug. 11, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 204,013. Registered Oct. 6, 1925. Fuhrer-Ford Milling Co., Mount Vernon, Ind., a corporation of Indiana. Republished by registrant.



The word "Alabama" is disclaimed apart from the mark as shown.
For Wheat Flour.
Claims use since July 1890.

Reg. No. 427,823. Registered Feb. 25, 1947. The South Shore Packing Corporation, Vermilion, Ohio, a corporation of Ohio. Republished by registrant.

BAR-B-LADE

For Vegetable and Fruit Preserves.
Claims use since Jan. 1, 1944.

Reg. No. 434,540. Registered Nov. 25, 1947. The South Shore Packing Corporation, Vermilion, Ohio, a corporation of Ohio. Republished by registrant.

SQUARE B Brand

The word "Brand" is disclaimed apart from the mark as shown.
For Fruit Jams, Fruit Jellies, Fruit Marmalades, Fruit Preserves, Table Syrups, Food Flavoring Extracts, Pickles, and Olives.
Claims use since Jan. 1, 1936.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 310,568. Registered Feb. 27, 1934. Bohemian Distributing Co. Ltd., Los Angeles, Calif. Republished by Bohemian Distributing Company, Los Angeles, Calif., a corporation of California.

OLD MASTERPIECE

For Whiskey.
Claims use since on or about Sept. 15, 1933.

Reg. No. 320,932. Registered Jan. 15, 1935. Bohemian Distributing Co. Ltd., Los Angeles, Calif. Republished by Bohemian Distributing Company, Los Angeles, Calif., a corporation of California.

MOUNTAIN SPRINGS

For Whiskey.
Claims use since Apr. 2, 1934.

Reg. No. 329,311. Registered Oct. 22, 1935. Tonkin Distributing Co., doing business as Columbia Distilling Co., San Francisco, Calif. Republished by A. M. Penrose & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania.



For Whiskey.
Claims use since Aug. 20, 1934.

Reg. No. 330,609. Registered Dec. 10, 1935. Bohemian Distributing Co. Ltd., Los Angeles, Calif. Republished by Bohemian Distributing Company, Los Angeles, Calif., a corporation of California.

BOHEMIAN

For Gin.
Claims use since on or about Oct. 1, 1934.

Reg. No. 338,008. Registered Aug. 25, 1936. "21" Brands, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

BIRCHBROOK



For Rye Whiskey.
Claims use since Feb. 15, 1936.

Reg. No. 442,333. Registered Mar. 24, 1949. Bohemian Distributing Company, Los Angeles, Calif., a corporation of California. Republished by registrant.

CROWN RUSSE

The geographical word "Russe" is disclaimed.
For Vodka and Ethyl Alcohol.
Claims use since Oct. 18, 1940.

Reg. No. 443,189. Registered Aug. 2, 1949. Bohemian Distributing Company, Los Angeles, Calif., a corporation of California. Republished by registrant.

Royal Crest

For Alcoholic Cordials, Whiskey, Creme de Cacao, Creme de Menthe, Anisette, Sloe Gin Liqueur, Blackberry Flavored Brandy, Apricot Flavored Brandy, Cherry Flavored Brandy, Peach Flavored Brandy, Creme de Moka, Ouzo Liqueur, Kummel, Mastiha Liqueur, Rock and Rye, Triple Sec Liqueur, Martini Cocktail, and Manhattan Cocktail.
Claims use since 1915.

Reg. No. 443,775. Registered Feb. 21, 1950. Bohemian Distributing Company, Los Angeles, Calif., a corporation of California. Republished by registrant.

OLD ARTISAN

The word "Old" is disclaimed apart from the mark as shown.
For Whiskey.
Claims use since Dec. 22, 1933.

Reg. No. 443,822. Registered Mar. 7, 1950. Bohemian Distributing Company, Los Angeles, Calif., a corporation of California. Republished by registrant.

Silver Knight

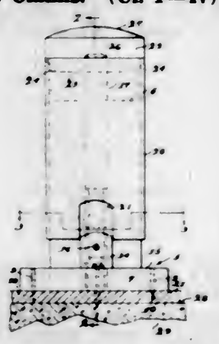
For Gin.
Claims use since Sept. 15, 1933.

PATENTS

GRANTED NOVEMBER 3, 1953

GENERAL AND MECHANICAL

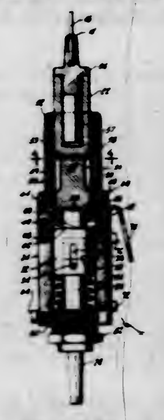
2,657,382
NAIL DRIVING DEVICE
William A. Lueneburg, Oakwood, Wis.
Application October 26, 1951, Serial No. 253,305
6 Claims. (Cl. 1—47)



1. A device for driving driven fastenings by impact force into a hard mass comprising an elongated body member having an enlargement at one end forming a base, said body member having a bore extending longitudinally therethrough and through the base, said base having an outer surface adapted to be disposed against a member through which a nail is adapted to be driven into a hard mass and into which the pointed end of a nail has been partially driven, a sleeve reciprocably mounted on said body member, a head fixed to an end of the sleeve and supported thereby beyond the end of the body member disposed remote to the base, said head having an outer impact receiving surface adapted to be struck by an impact delivering tool, and a plunger slidably mounted in the bore of the body member having one end projecting therefrom and engaging against said head and an opposite distal end adapted to abut against the head of the nail whereby the head and sleeve are driven toward the base when the impact surface of the head is struck an impact blow for driving the plunger through said bore toward the nail, a plurality of anchoring pins secured in the base having tapered pointed ends projecting from its outer surface and adapted to be temporarily anchored in the member against which the base is disposed for supporting the driver thereon.

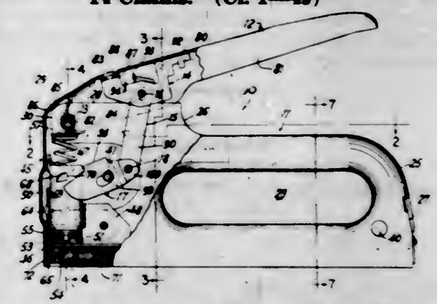
2,657,383
DEVICE FOR DRIVING FASTENERS
Robert L. Siering and Harry S. Ford, New York, N. Y., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application December 23, 1949, Serial No. 134,782
6 Claims. (Cl. 1—47)

1. In a device for driving fasteners, a rotatable shaft, an anvil member carried by an end of the shaft for rotation therewith and reciprocation thereon between forward and rearward positions, a spring urging said anvil member forwardly of the shaft, a cam on said anvil member, said cam having a forwardly inclined profile with an abrupt drop-off, a non-rotatable sleeve surrounding said anvil member and shaft and including a forward extension defining a socket, a tubular collar removably mounted on said extension and fixed against reciprocation relative thereto during normal operation of the device, a nail driving tool mounted for reciprocation within the socket



and collar and for contact with the anvil member when the latter is in its forward position, said tool having an elongated annular recess, means carried by said collar and extension and projecting into said recess for limiting the forward movement of the tool, and a cocking element carried by said sleeve for cooperation with the cam to withdraw the anvil against the action of the spring.

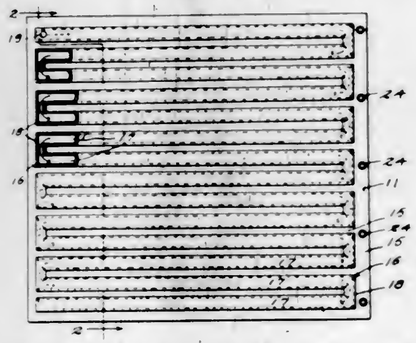
2,657,384
HAND TACKER
Frank S. Boroughs, Elmhurst, N. Y., assignor to Arrow Fastener Co., Inc., Brooklyn, N. Y., a corporation of New York
Application March 8, 1951, Serial No. 214,513
14 Claims. (Cl. 1—49)



1. A tacker comprising a body, a plunger slidable in said body, spring means to depress the plunger, a handle mounted on the body for movement in opposite directions and being movable by hand pressure, relative to the body in one direction, spring means to move said handle rela-

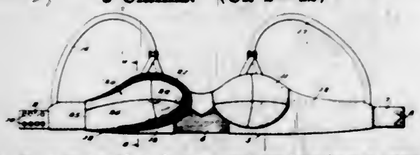
tive to the body in the opposite direction, a trigger having a pivotal pin and slot connection with the body at an intermediate portion of the trigger, means including a link interconnecting the rear end of the trigger with the handle and means on the plunger disengageably engageable by the forward end of the trigger upon moving said handle in said first direction to raise said plunger against said spring means, and to pull said trigger out of engagement with respect to said plunger when said plunger is raised a pre-determined distance so that the plunger descends due to pressure of its spring means.

2,657,385
MULTIPLE PNEUMATIC PROTECTION PAD
Cecil A. Cushman, Redlands, and William Harrison, Jr., San Bernardino, Calif.
Application August 3, 1951, Serial No. 240,228
10 Claims. (Cl. 2—24)



1. A multiple pneumatic protection pad comprising an outer section and an inner section, said outer section comprising a casing formed of a flexible material defining a pocket having an opening along an edge of said outer section, one side wall of said outer section being formed of two plies of a nonporous material having portions secured together in abutting engagement and other unsecured portions forming an inflatable tubing, said inner section being formed of two plies of flexible nonporous material having portions thereof secured together in abutting engagement disposed between and surrounding other unsecured portions of said last mentioned plies, said last mentioned unsecured portions forming inflatable tube portions, said inner section being disposed within the pocket of the outer section to provide an inflated multiple pad when the tube portions of said sections are inflated, and tie means connecting the edges of said outer section defining the open edge of said pocket for retaining the inner section therein.

2,657,386
BRASSIÈRE
Marie Wolff, Tulsa, Okla.
Application November 9, 1951, Serial No. 255,601
3 Claims. (Cl. 2—42)



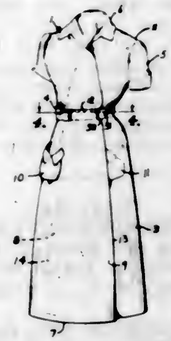
1. In a brassière for a woman having a removed breast, a body-encircling band having means for connecting its ends with each other, said band having a smooth, flat soft portion at the front thereof adapted to extend uninterruptedly across the scar tissue resulting from the removed breast, a tape secured to the marginal edge of said flat portion at the outer side of the band, a flexible cup, a tape secured to the open side of the flexible cup, and means carried by said tapes for connecting the cup to said flat portion of the band and coacting in forming a closed pocket to receive a yieldable breast-simulating filling.

2,657,387
INFANT'S GARMENT
Gladys L. Ketcham, San Mateo, Calif.
Application June 11, 1951, Serial No. 230,935
2 Claims. (Cl. 2—69.5)



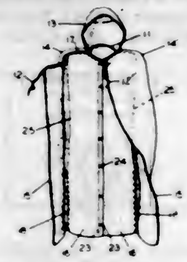
1. An infant's garment comprising a cape having a plain back and front sections connected to the side edges of the back and foldable upon an infant lying on the back, means along the front of the garment for securing one front section upon the other, a flap projecting downwardly from the back and below the bottom edges of the front sections and being foldable upon the lower portions of the front sections to form a bottom closure for the garment, means for securing the flap upon the front sections, and pockets secured upon the inner faces of the front sections near the lower ends thereof so as to be substantially covered by the flap, the garment being of a length to extend below the infant's feet at least by the depth of the pocket so as to accommodate the pockets and their contents below the space occupied by the infant.

2,657,388
REVERSIBLE FRONT GARMENT
Martha C. O'Brien, Warrensburg, Mo.
Application April 17, 1952, Serial No. 282,849
2 Claims. (Cl. 2—74)



1. In a garment of the type comprising overlapping right and left front portions having a belt line, inner tabs fixed to inner side faces of the garment substantially in registry with terminal edges of said right and left front portions and substantially at the belt line of the garment, said inner tabs having free ends, tabs on said terminal edges of the right and left front portions substantially at the belt line and in registry with the inner tabs for alternate connection with said inner tabs depending upon which of said front portions is undermost, fasteners having one element on free ends of each of the inner tabs and a cooperating element on each of the tabs of the front portions to make said connections for the undermost portion, fastener elements on the outer sides of the garment substantially corresponding with the elements on the inner tabs for alternate engagement with said cooperating element on the tabs of said front portions to fasten the outermost portion, and outer tabs secured to the respective sides of the front portions for alternately covering the elements on the outer sides of the garment depending upon which of the side portions is outermost and having elements corresponding to said cooperating elements on the tabs of said front portions to engage said elements on the outer sides of the garment for symmetry in appearance on the outer sides of the belt line of the garment.

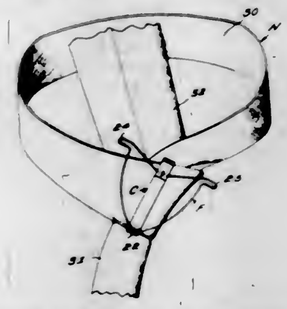
2,657,389
GARMENT
Frank J. Gross, Milwaukee, Wis., assignor to The Church Mart, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application February 26, 1951, Serial No. 212,740
2 Claims. (Cl. 2—88)



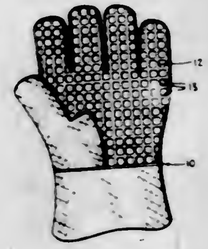
1. A cape comprising a fabric body portion open at its forward edge, said body portion being provided with a neckband at its upper edge, the open edges of said body portion extending vertically in parallel relation to one another, a pair of longitudinal vertical panel members within said body portion, each of said panel members being attached at the upper edges thereof to the inside surface of the body portion adjacent the neck band, the longitudinal forward edges of said panel members extending vertically in parallel relation to one another adjacent the open edges of said body member, engaging means attached to each of the longitudinal forward edges of said panel members for retaining them in engagement with one another, a lower portion only of the side edge of each panel member being attached to the inner surface of said body portion leaving the greater portion of each side edge free of attachment thereby forming larger-than-usual armhole openings.

2,657,390
NECKTIE KNOT CLASP
Alfred B. Tredway, Conway, Ark.
Application January 31, 1951, Serial No. 208,695
5 Claims. (Cl. 2—153)

3. In a necktie knot clasp, a clip comprising an elongated body having spaced inner and outer parallel arms connected at their lower ends and adapted to receive a portion of a necktie between them, an open frame pivoted at one side to said outer arm near the top thereof with its free end normally disposed near the lower end of said body and having portions projecting laterally beyond both sides of said body, and means on said outer arm cooperating with said frame at the pivotal connection therewith to releasably hold said frame at substantially right angles to said clip and also to releasably hold said frame in substantial parallelism therewith.



2,657,391
HAND COVERING
Harry D. Crandon, Woodstock, Conn., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 24, 1948, Serial No. 61,775
6 Claims. (Cl. 2—161)



1. A hand covering comprising a base portion of flexible porous sheet material shaped to fit about a wearer's hand and having a plurality of strands of a relatively limp synthetic resinous material arranged on a surface thereof in criss-cross relation and embedded in said surface of the sheet material so as to be interlocked therewith, said strands forming a protective reinforcement for said base portion that does not substantially interfere with the inherent flexibility of the sheet material.

2,657,392
LINGERIE ACCESSORY
Daisy B. Jackson, Harvey, Ill.
Application May 15, 1952, Serial No. 287,904
3 Claims. (Cl. 2—323)

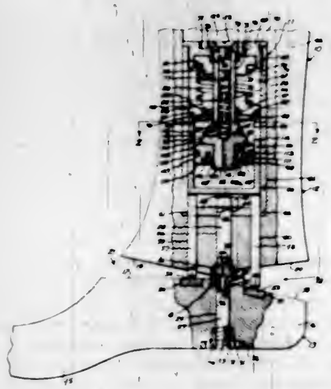
1. An accessory for concealing the shoulder straps of women's undergarments as worn comprising an elongated body member arranged to be folded on a longitudinal line, and means adjacent the free edges of the member for securing the said edges together after the member has been assembled with the straps therewithin, and

the member has been folded about the same, means at each end of the body member for detachably securing the member to the fabric of one or more of the garments, and an elastic ele-



ment secured at its ends to said member and to said securing means to accommodate variations in stress imposed on said member by the natural movements of the garments while worn.

2,657,393
FLUID-CUSHIONED ARTIFICIAL LEG
John Haller, Northville, Mich.
Application June 21, 1952, Serial No. 294,821
8 Claims. (Cl. 3—1.2)



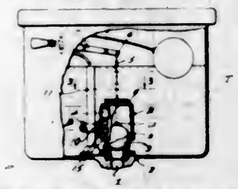
1. A fluid-cushioned artificial leg comprising a leg member, a foot member pivotally attached to said leg member for rocking motion relatively thereto, a fluid cylinder mounted in one of said members and having an outer cylinder bore therein, a hollow movable piston reciprocably mounted in said outer cylinder bore and having an inner cylinder bore therein, a stationary piston fixedly mounted in said inner cylinder bore, said stationary piston having a restricted forward fluid passageway and a return fluid passageway therethrough, and a motion-transmitting element extending from said foot member through said cylinder to said movable piston and responsive to the rocking of said foot member for reciprocating said movable piston in said cylinder.

2,657,394
COSMETIC GLOVE
Clare L. Milton, Jr., Akron, Ohio, and Carl A. Nielson, Takoma Park, Md., assignors to the United States of America as represented by the Secretary of the Army
Application February 2, 1948, Serial No. 5,717
5 Claims. (Cl. 3—12)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A cosmetic glove adapted to cover an artificial hand, comprising a flesh-colored, flexible, pliable and stabilized plasticized vinyl chloride polymer, the polymer containing at least approximately 95% of vinyl chloride, the glove being seamless and reproducing veins and all surface characteristics of a natural model hand, the glove having its interior surfaces pigmented to reproduce by means of color showing through the glove the coloring of a natural model hand.

2,657,395
TOILET FLUSH VALVE
William H. Walker, Hollywood, Calif.
Application August 9, 1951, Serial No. 241,062
1 Claim. (Cl. 4—57)



The combination with a flush tank having a discharge opening, a trip lever and an overflow pipe; of a flush valve comprising a valve member to close the discharge opening, a flexible member connecting the valve member to the trip lever, a tubular casing to receive said valve member when it is lifted from the discharge opening by movement of the trip lever, a stop constituted in an inturned edge portion at the top of said casing to retain the valve member within the casing during its lifting movement, a bracket arm, means for mounting said bracket arm on the overflow pipe, spaced, downwardly angled, arms carried by the casing and outwardly offset therefrom, one of said second arms being insertable through an aperture in the outer portion of the bracket arm, and the second or said arms overlying and contacting the face of the bracket arm remote from the receiver to hold the casing firmly against the bracket arm.

2,657,396
AIR VENTILATED SUIT
Arnold M. Klein, Brooklyn, N. Y., and John F. Hall, Jr., Dayton, Ohio
Application March 9, 1951, Serial No. 214,806
3 Claims. (Cl. 4—160)
(Granted under Title 35, U. S. Code (1952), sec. 266)

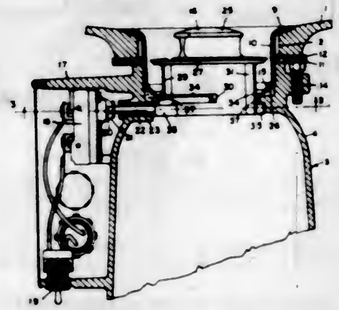
1. An air conditioned suit having a body section, arm sections, and leg sections, each of said

sections comprising an air impervious outer cover, an inner liner of porous fabric and fabric means intermediate said cover and liner maintaining them in continuous spaced relation and providing spaced channels therein, means connecting the respective sections and adjustable to maintain the sections distinct from each other, a manifold mounted in each side of the body section, each manifold having three branches respectively con-



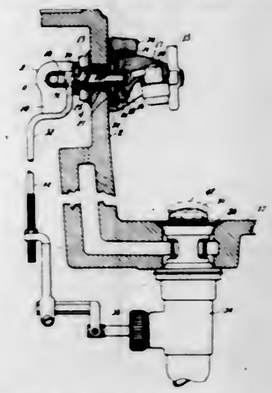
nected to an arm section, a leg section, and the body section, said branches being so constructed and arranged as to deliver approximately 25 percent of the conditioned air flow to the manifolds to the arm sections, 50 percent to the leg sections, and 25 percent to the body section through the spaced channels therein, and means connected to the manifolds to deliver conditioned air thereto whereby a predetermined temperature may be maintained.

2,657,397
GARBAGE GRINDER CONTROL MECHANISM AND CONTROL MEANS THEREFOR
John Drew, Kent, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio
Application August 28, 1948, Serial No. 46,606
12 Claims. (Cl. 4—190)



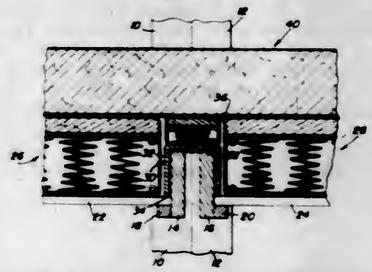
1. A control member for comminuting apparatus and the like comprising a generally cylindrical body, first and second flanges projecting radially from said body, said first flange being continuous and of larger diameter than said second flange and constituting a seat for engagement with a seat therefor surrounding an opening leading into such apparatus, said second flange being adapted, in a first rotary position of said body in such opening, to engage a radially inwardly extending projection in such opening for supporting said body in an elevated position with said first flange spaced from its seat, and in a second rotary position of said body in such opening to clear such projection and permit engagement of said first flange with its seat, a cam on said body engageable with means on said apparatus only when said body is supported in said elevated position for energizing said apparatus when said body is thus supported.

2,657,398
DRAIN VALVE OPERATING MEANS
Lee K. Watkins, Louisville, Ky., assignor to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa., a corporation of Delaware
Application May 11, 1951, Serial No. 225,869
9 Claims. (Cl. 4—203)



1. A plumbing fitting comprising a spout member, a water supply pipe connected to said spout member, a rotatable sleeve member surrounding said supply pipe, means to rotate said sleeve member, a drain valve, and means operatively connecting said sleeve member to said valve for actuating said valve upon rotation of said sleeve member.

2,657,399
CONVERTIBLE BED
Martin P. Rochford, West Springfield, Mass.
Application June 1, 1951, Serial No. 229,440
1 Claim. (Cl. 5—8)



A convertible bed construction providing either two single beds or, alternatively, a twin bed, comprising, in combination, a first single bed and companion second single bed, said beds being disposed in separable side-by-side relationship and having inward longitudinal rails disposed in close spaced parallelism, a box spring on each bed, the upper edges of said rails being in the same plane but on a plane well below the top surfaces of said box springs, means separably uniting said rails, and an insertable and removable auxiliary box spring resting on said means and having its top surface flush with the aforementioned box

springs, said uniting means comprising an inverted channel-shaped clamp capped over the stated rails, said clamp having a flat bight portion and said auxiliary box spring seating firmly on and being thus maintained and supported by said bight portion.

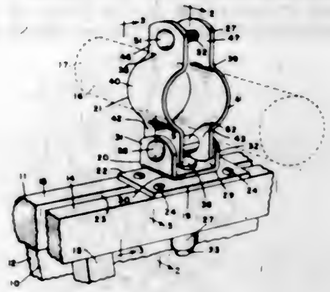
2,657,400
SLEEPING BERTH SUPPORT
Garrett D. Pagon, Ambler, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 21, 1952, Serial No. 272,883
3 Claims. (Cl. 5—9)



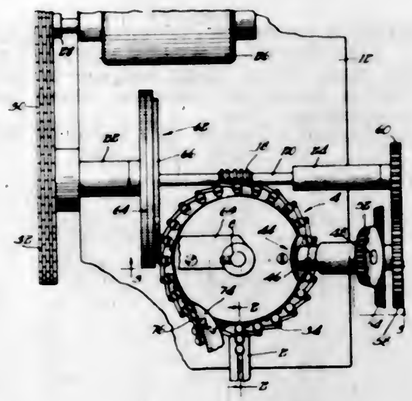
1. In a sleeping car or the like, in combination, a berth movable between a stowed position and a horizontal use position, an elongated support strut hinged by a pivot pin at one end to the berth for swinging movement in an arc in a vertical plane, a relatively short keeper secured to a fixed anchorage and adapted to hold the free end of the strut when swung up into a vertical position, mating coupling elements on said keeper and the free end of the strut which are aligned with the plane of swinging movement of the strut whereby they are engaged when the strut is swung up about its pivot pin, and an axially movable sleeve on said strut which is biased toward the free end of the strut for embracing the overlapped and interengaged ends of the strut and keeper for holding them in coupled relationship, the free end of the strut being tubular and having axially elongated slots on opposite sides, a transverse pin secured to said sleeve and passing through said slots, and a spring in said tubular strut end engaging said transverse pin and urging said sleeve outwardly toward the free end of the strut.

2,657,401
OAR LOCK
Chester O. Goserud, St. Paul, Minn.
Application July 9, 1951, Serial No. 235,693
5 Claims. (Cl. 9—26)

1. In an oar lock, a mounting, a support pivoted to said mounting, a clamp including a pair of clamp members pivoted to said support and having jaws for engaging the shaft of an oar, arms spaced from one another and extending upwardly from said jaws, a bolt extending through said arms, legs extending downwardly from said jaws, said support having spaced flanges straddling said legs, said flanges having registering holes therein, said legs having registering holes therein, a pintle extending through all of said holes, lateral projections formed at the ends of said pintle and disposed outwardly of said flanges, sleeves encircling said pintle and extending through the holes in said flanges and inwardly of said flanges, said sleeves engaging said projections, said legs engaging said sleeves inwardly of said flanges and upon tightening of said bolt urging said sleeves against said projections, said sleeves, holding said legs from simultaneous engagement with said flanges to reduce friction between said legs and flanges.

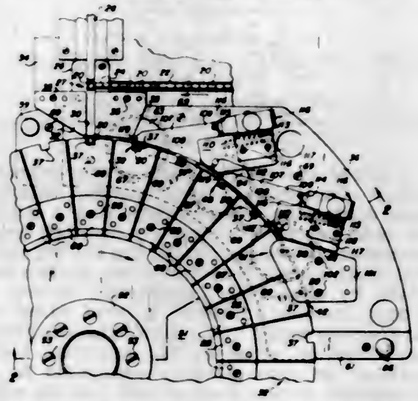


2,657,402
SCREW SHANK SLOTTER
Ouglesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application November 5, 1948, Serial No. 58,393
11 Claims. (Cl. 10—2)



1. In an article working apparatus, a rotary working tool having a spiral material working edge, article carrying means having a plurality of spaced apart article receiving means for receiving a plurality of articles spaced apart in accordance with the lead of said working tool, and means for continuously moving said carrier at a uniform rate proportional to the rate of rotation of said tool and the pitch of the spiral working edge whereby spaced articles may be correspondingly moved successively into operative engagement and predetermined registration with said material working edge to work said articles.

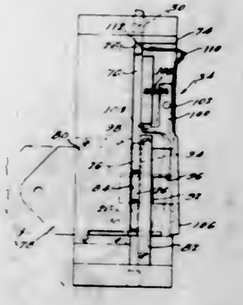
2,657,403
BLANK FORMING APPARATUS
Carleton W. Eade, Milldale, Conn., and William W. Schug, Hudson, N. Y.; said Eade assignor, by mesne assignments, to The Dalemill Company, Waterbury, Conn., a corporation of Connecticut, and said Schug assignor, by mesne assignments, to Emhart Manufacturing Company, Hartford, Conn., a corporation of Delaware
Application May 29, 1950, Serial No. 165,986
6 Claims. (Cl. 10—77)



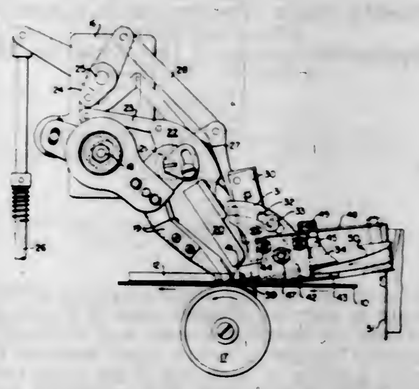
1. In apparatus for making four-sided nuts from cylindrical slugs, means for introducing said slugs in succession into a first forming station, means comprising a punch movable in a direction normal to the axis of the slug at said first forming station for deforming the slug in the station into a four-sided nut blank, an intermittently rotatable dial having a plurality of outwardly open pockets on its periphery shaped to receive the nut blanks, means synchronized with movement of said dial for removing said nut blank from the first forming station and moving it into one of said pockets, means defining a flat support surface for said nut blanks below the dial having a plurality of die cavities at spaced circumferential forming stations about said dial into which each nut blank is deposited when the dial reaches that position, nut forming means at each station, and means at each station operative after the nut forming operation to return the nut blank to the dial pocket to enable the nut blank to be moved along said surface to the next station.

2,657,404
APPARATUS FOR FEEDING A PLURALITY OF SELECTIVELY ORIENTED ELONGATED ARTICLES
Cass S. Kasper, Grosse Pointe, Mich.
Application August 24, 1949, Serial No. 112,025
11 Claims. (Cl. 10—162)

1. A distributing mechanism adapted to receive a plurality of parts from a supply conduit and distribute them to a plurality of discharge conduits, said mechanism comprising body means defining a supply passage adapted to communicate with said supply conduit and a plurality of discharge passages adapted to communicate with said discharge conduits, a discharge control member mounted in said body means and cooperating therewith to define an inclined discharge chamber and adapted to receive a number of the parts corresponding to the number of the discharge passages and with the parts arranged one above the other, said discharge control member being movable between a first position in which it closes said discharge passages and in which it is adapted to support a said number of said parts in said discharge chamber, and a second position in which said discharge passages communicate with said discharge chamber, means for admitting a said number of said parts into said chamber, means for moving said control member between said positions, and means, including means on said discharge control member, effective upon movement of said member from said first position to said second position, to successively admit one of said number of the parts from said discharge chamber into each of said discharge passages beginning with the uppermost of said number of parts first.

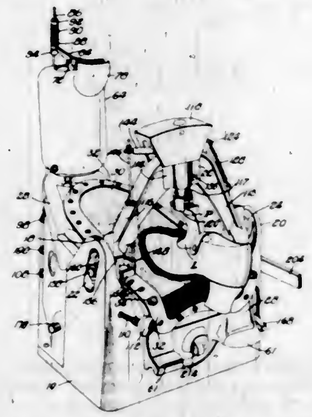


2,657,405
RIB APPLYING MACHINE
Andrew R. Ridderstrom, Nahant, Mass., assignor to Prime Manufacturing Company, Lynn, Mass., a corporation of Massachusetts
Application January 15, 1952, Serial No. 266,493
7 Claims. (Cl. 12—20)



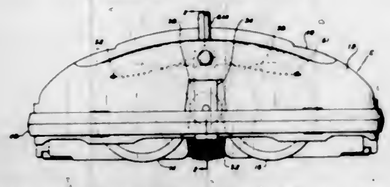
1. In a rib applying machine having a work-supporting roll; guide mechanism comprising a guide foot mounted in the machine for bodily movement to and from an operative position adjacent to the roll, said guide foot including in its structure a segmental body having a longitudinal passage therein terminating in a rib constricting gate with a channel having the cross sectional shape of an inverted T, the segmental body having provision for angular adjustment about the lower edge of the gate.

2,657,406
SHOE PRESS
Frank Coleman Cheice, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 8, 1950, Serial No. 183,685
Claims priority, application Great Britain September 24, 1949
23 Claims. (Cl. 12—33.2)



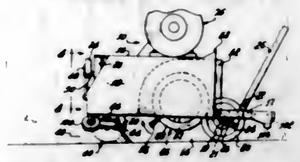
3. A shoe press having, in combination, a pad containing liquid, a reservoir connected to the pad, a valve between the pad and the reservoir, means for applying pressure to a shoe located on the pad, manually operated means for opening the valve at the conclusion of a pressing operation on a shoe, and means rendered operative by the initial movement of the pressure-applying means toward the pad for closing the valve.

2,657,407
CARPET SWEEPER WITH PIVOTABLE BRUSH SUPPORT
Earle R. Smith, Alhambra, Calif., assignor to Edna Cambell Smith
Application February 9, 1948, Serial No. 7,054
9 Claims. (Cl. 15—41)



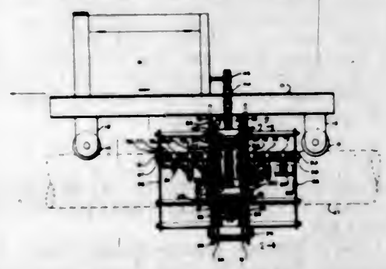
9. A carpet sweeper comprising floor wheels arranged in pairs at opposite ends of a casing and rotatable on laterally pivotal and vertically displaceable hangers, a rotary brush mounted in the casing, a pulley on each end of the brush between the wheels of each pair and in driving contact therewith, means for urging the respective wheels of each pair toward the other and into contact with the pulley disposed therebetween, a bail having a leg pivotally mounted to each end of the casing and supporting an elongated handle, a cover plate affixed to each end of the casing and forming a housing with the ends of the casing for the wheels and pulley, a tongue pivotally mounted adjacent one of its ends in vertically slidable relationship to the upper part of each of said cover plates and extending downwardly therefrom to a point below the axis of rotation of the brush, the brush being journaled at either end to the corresponding tongue at a point spaced from the point of pivotal mounting of the tongue so that the brush is free to move laterally to be in continuous driving contact with the wheels.

2,657,408
POWER PROPELLED SWEEPER
Fred J. Machovec, Pasadena, Calif.
Application December 17, 1949, Serial No. 133,587
4 Claims. (Cl. 15—83)



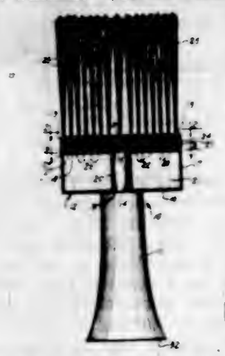
1. A power operated sweeper of the character described comprising a body member, rotatable surface contacting brush means and a driving motor both carried by the body member, power transmission means connecting the driving motor to said brush means, a friction wheel on said body actuated by said motor, supporting wheels for said body member including a front wheel and a rear traction wheel, and a handle for the sweeper, said traction wheel having mounting means comprising an arm pivotally connected to the body member to the rear of said friction wheel but in front of the axis of rotation of said traction wheel, said arm being actuated by the weight of the body to normally hold the traction wheel out of contact with the friction wheel, and means connecting said handle to said arm in rear of the traction wheel shaft to permit moving said mounting means in opposition to the effect of the weight of the body member to cause the traction wheel to be brought into engagement with said friction wheel.

2,657,409
ROWEL TYPE PIPE CLEANING TOOL
Robert A. J. Dawson, Houston, Tex.
Application May 6, 1949, Serial No. 91,695
1 Claim. (Cl. 15—104.04)



A tool carriage assembly for a rotary pipe and shaft cleaning machine comprising a tool carriage ring, a plurality of tool support rods extending axially therefrom, a plurality of sets of tools mounted thereon, said sets of tools each comprising a plurality of rocker arms pivotally mounted one on each rod, each arm carrying a single peripherally toothed hammer-cutter disc, rotatably mounted all by itself thereon, spring means connected to each of said arms to urge the disc carried thereon toward the ring axis and the article to be cleaned, the cross-sections of the teeth of each disc being rectangular to provide cutting edges and the lengths of the sides of each rectangular cross-section being of the same order of size to minimize the largest dimension of the cross-section for any given area thereof so as to allow each tooth to penetrate the smallest diameter pits in the article to be cleaned for given hammer area constituted by the end of the tooth, the spacing of the teeth about the periphery of each disc being constant and substantially uniform and greater than the peripheral extent of each tooth, said single disc on each arm being the sole cleaning device mounted on said arm in position to contact the article to be cleaned.

2,657,410
BARBERS' AND BEAUTICIANS' NECK DUSTER
Clinton E. Stroup, Mansfield, Pa.
Application August 13, 1952, Serial No. 304,152
2 Claims. (Cl. 15—131.1)



1. A barbers' and beauticians' neck duster comprising an antiseptic powder receptacle having an axial opening therethrough and a perforated top, guide pins extended outwardly from the outer face of the top, a bristle head having openings complemental to said guide pins and further having apertures in registry with the apertures of said top, a handle member having a reduced axial extension complemental to the axial opening of the receptacle, said handle further having a reduced threaded shank for threaded engagement in a threaded opening formed in said bristle head.

2,657,411
LIPBRUSH AND HOUSING THEREFOR
Henry Becker, Los Angeles, Calif.
Application March 6, 1951, Serial No. 214,141
4 Claims. (Cl. 15—184)

1. In a cosmetic applicator, a tubular housing having open front and rear ends, a sleeve slidable out of the front end of the housing to form an extension of the housing and being slidable inwardly of said front end out of extension forming position, a shank in the housing with a brush on one end and an enlarged portion on its other end, said shank being axially movable outwardly of the front end of the housing and outwardly of said sleeve to project the brush out of the sleeve and being movable inwardly of said front end and sleeve to retract the brush into the housing and project the enlarged portion of the shank out of the rear end of the housing, a flange on the shank within the housing, a spring in the housing acting against the sleeve and flange to slide the sleeve outwardly and to move the shank inwardly, and a closure member for the ends of said housing engageable with said sleeve and said portion selectively to slide said



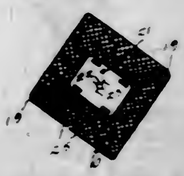
sleeve inwardly and move said shank outwardly respectively.

2,657,412
FOLDING TOOTHBRUSH
Henry E. Carlson, New Britain, Conn.
Application November 30, 1948, Serial No. 62,613
13 Claims. (Cl. 15—185)



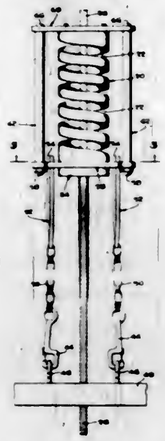
8. A refill tooth brush having a shank provided adjacent its free end with a longitudinal slot having at the end of the shank a constricted outlet which may be sprung open to permit the passage therethrough of a pivot pin into and out of the slot, said slot having an elongated longitudinal portion throughout which the width of the slot is at least as great as the diameter of the pin to be received therein, whereby the brush shank is longitudinally slidable on the pivot pin when the pivot pin is in said elongated longitudinal portion of said slot.

2,657,413
CLEANING DEVICE
Orrice L. Murdock, Kensington, Md.
Application July 6, 1950, Serial No. 172,300
2 Claims. (Cl. 15—209)



1. A cleaning device comprising a rectangular abrasive sheet formed of loosely woven metallic strands, the diagonally opposite end portions of which are folded diagonally to leave a center slot between adjacent edges of said folded end portions, and then again folded oppositely and diagonally to leave a center slot aligned with said first-mentioned slot, a clamping plate under said folded portions, and a fastening member secured to said clamping plate and extending through said slots for attaching a handle to the device.

2,657,414
ADJUSTABLE LINE WIPING DEVICE
De Mont G. Miller, San Marino, and John C. Grant, Los Angeles, Calif., assignors to Byron Jackson Co., Vernon, Calif., a corporation of Delaware
Application February 11, 1949, Serial No. 75,794
27 Claims. (Cl. 15—210)



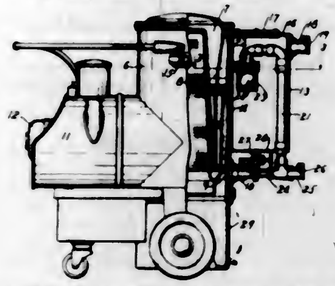
1. A line wiping device comprising: a body of yieldable material having a line wiping passage therethrough adapted to receive a line; and a holder therefor, said holder including a first member relatively non-rotationally affixed to an extremity of said yieldable body, a second member relatively non-rotationally affixed to the other extremity of said yieldable body, and posts rigidly connected to said second member, said first and said second members being relatively rotatable to tighten said yieldable body about said line, and said first body being connectible to said posts.

2,657,415
WINDSHIELD WIPER
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application January 24, 1948, Serial No. 4,190
4 Claims. (Cl. 15—245)



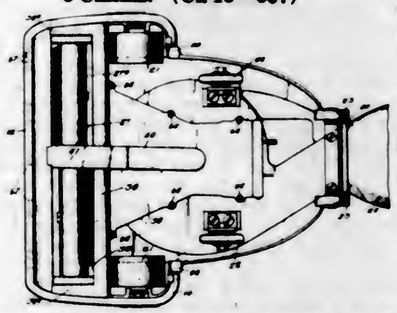
1. A wiper comprising an elastic squeegee unit having an anchoring part with a depending web reduced at its free margin to provide a relatively flexible wiping edge, a holder for the squeegee unit having a flat bottom wall and opposing side flanges defining a channel and loosely embracing the anchoring part therein, the free edges of the flanges being spaced apart and freely receiving the web therebetween for alternate contact therewith, the anchoring part having a flat back face seating upon the flat wall with a normalizing full-face contact therewith and rocking laterally therefrom on one or the other of its two longitudinal edges, the face being of less width than the bottom wall for lateral play during the rocking motion to bring the other longitudinal edge into bearing contact with the forward one of the flanges with respect to the direction of travel to provide a torque-restraining tri-point support for the squeegee unit within the three walls of the channeled holder.

2,657,416
LIQUID SEPARATOR ATTACHMENT FOR VACUUM CLEANERS
Lester C. Smith, West Hartford, Conn., assignor to The Spencer Turbine Company, Hartford, Conn., a corporation of Connecticut
Application May 6, 1949, Serial No. 91,721
5 Claims. (Cl. 15—331)



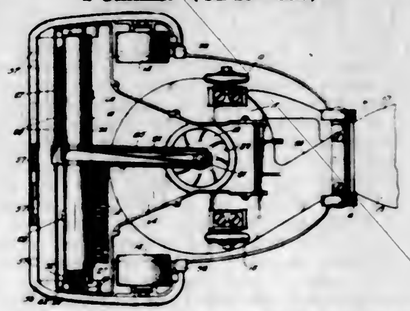
1. In combination with a vacuum cleaner comprising a casing having a suction chamber therein and an inlet opening in a wall of said casing which opening communicates with said chamber, a device comprising a container mounted upon said casing, a suction pipe having an open end in the upper portion of the said container, the said container having an inlet opening that opens to atmosphere and is disposed above the level of the open end of the suction pipe, means for closing said inlet opening, a suction tube disposed below said container and communicating with the said suction pipe and connected to the inlet opening in said casing, the said suction tube further having an inlet opening that opens to the atmosphere, and means for closing said inlet opening of the suction tube, said closure means for the inlet opening of said container and for the inlet opening of said suction tube being selectively operable to permit attachment of a suction tool to either of said openings.

2,657,417
VACUUM CLEANER, INCLUDING A BOTTOM CLOSURE MEMBER
Frank S. Howard, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application November 6, 1946, Serial No. 708,157
3 Claims. (Cl. 15—337)



1. In a vacuum cleaner comprising a cleaner body including a nozzle, a rotatable brush in the nozzle and including a brush spindle, a fan chamber in the cleaner body, a passage in the cleaner body for dirt-laden air extending from said nozzle to said fan chamber and open at the bottom, and a belt contacting the brush spindle for rotating the brush, a removable closure member forming the bottom of the cleaner body and having a closing portion closing the bottom of said air passage, said bottom closing portion having an extending part projecting across the bottom of the nozzle beneath the belt, and side pieces on the extending part positioned on opposite sides of said belt and enclosing the part of the belt that contacts the bottom of the brush spindle.

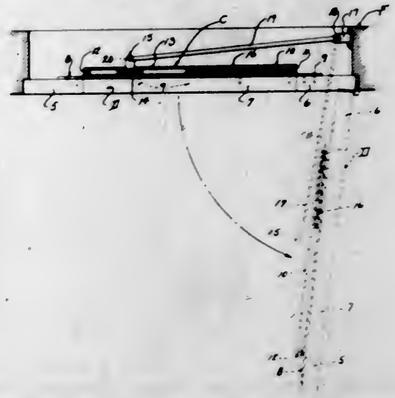
2,657,418
VACUUM CLEANER BRUSH MOUNTING
Frank S. Howard, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application November 9, 1946, Serial No. 708,993
2 Claims. (Cl. 15—392)



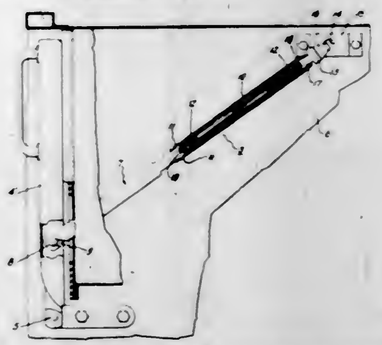
1. In a vacuum cleaner including a nozzle, a removable base plate on the cleaner, a rotatable brush in said nozzle including a spindle, a driving belt engaging said spindle, an extended pin member on the end of the spindle aligned axially therewith, a removable bearing having a cylindrical part embracing the pin member and a vibration-absorbing resilient material of substantially square cross-section attached to the outer surface of the cylindrical part, a substantially rigid socket in the nozzle rigid therewith and shaped similarly to the bearing to prevent rotation of the bearing in the socket and having an open bottom through which the bearing may be inserted and removed, said socket tightly receiving the bearing with the resilient material being under compression, and a closure on the removable base plate extending substantially completely across said open bottom to complete the socket and pressing tightly against substantially the entire corresponding side of said resilient material, said resilient material of the removable bearing having thick portions extending diagonally of the square cross section of the bearing and thin portions intermediate the thick portions, said thin portions of the square resilient material being substantially aligned with the driving belt to prevent excessive yielding of the resilient material under the pull of the belt and said thick portions being arranged diagonally to the belt to absorb vibration.

2,657,419
DOOR PROTECTOR AND CHECK
Baldwin W. Wendt, Milwaukee, Wis.
Application January 23, 1950, Serial No. 140,096
1 Claim. (Cl. 16—65)

A door protector and check comprising a face plate adapted to be secured to the inner face of a door transversely of a door and extending from one stile thereof to the other, a longitudinally extending cylinder on said face plate, said cylinder having a longitudinally extending guide slot therein, a slide block movable in said cylinder having a guide ear extending through the slot and engaging the upper and lower walls thereof, a cushion spring in said cylinder for engagement by the slide block upon the opening movement of the door, a bracket adapted to be secured to a door frame adjacent to the hinge point of the door, and a link pivotally connected to the bracket and to the ear of the slide block, said link adapted to engage the cylinder after the slide block has engaged the spring and the door has opened a pre-determined distance.

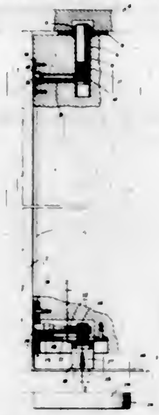


2,657,420
SPRING TERMINAL FITTING
Richard J. Carbary, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application November 24, 1950, Serial No. 197,355
4 Claims. (Cl. 16—72)



1. A helical spring and adjustable mounting therefor comprising a first terminal threadably engaging one end of said spring, and a second terminal engaging the other end of said spring, said other end of said spring comprising a plurality of turns decreasing in radius from the main body of said spring toward said other end, and said second terminal having one end for attachment to a support and its other end shaped to engage the inner sides of said turns and being freely rotatable with respect thereto whereby said spring will be retained on said second terminal when under tension and may be rotated on said second terminal for purposes of adjustment.

2,657,421
ADJUSTABLE HINGE
Robert G. Polson, Stockton, Calif.
Application October 10, 1950, Serial No. 189,333
2 Claims. (Cl. 16—129)



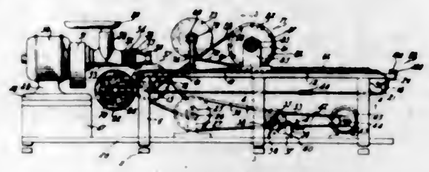
1. In an adjustable hinge adapted to be mounted on a swinging door; said hinge comprising a spindle, a downwardly opening socket member in which the spindle is disposed and from which said spindle projects when the door is mounted in an operative position, a horizontal guide channel in which the socket member is disposed for adjustment along said channel, means securing the guide channel lengthwise to the lower edge portion of the door, and means between the guide channel and socket member operative to so adjust the latter.

2,657,422
SASH CORD CONNECTOR
Milton Lipson, Jersey City, N. J.
Application March 20, 1950, Serial No. 150,723
3 Claims. (Cl. 16—202)



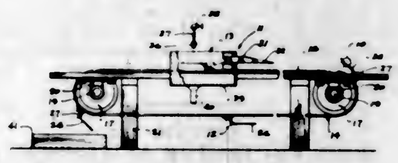
1. A sash weight cord connector comprising a guide strip element adapted to be fixed to the outer edge of the sash stile, and an attachment element slidable therein and provided with means for receiving a sash weight cord, and means integral with one of said elements adapted for locking engagement normally solely with the other element, said attachment element including a portion located for manual actuation at its upper end in close proximity to the upper rail of the sash to release temporarily said attachment element from the said guide strip, and resilient means urging the elements into contact with each other.

2,657,423
MACHINE FOR MAKING HAMBURG STEAK PATTIES
Frank S. Elsaesser, Cincinnati, Ohio
Application July 17, 1947, Serial No. 761,504
4 Claims. (Cl. 17—32)



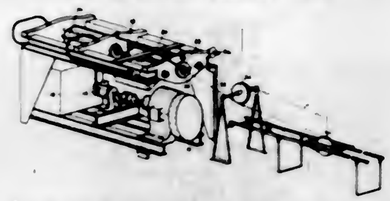
1. In a device of the class described the combination of a supporting table, a constantly moving supporting and transporting belt on said table receiving and transporting a relatively thick stream of ground meat, a rotatable drum above said table beneath which the stream of ground meat is moved, a flexible cover associated with said ground meat stream to be between said ground meat stream and said drum while the said ground meat stream is passing beneath the drum, a plurality of blades circumferentially spaced axially extending from the periphery of the drum with each blade extending transversely of the drum for substantially the full width thereof, said stream of ground meat being of greater thickness than the axial extent of the blades from the drum and severed into portions by said blades and each ground meat portion sufficient to form a Hamburg steak patty but each portion requiring spreading out and flattening into said patty, said drum blades axially extending from the periphery of the drum an amount equal to the desired patty thickness and spaced from one another a distance less than the width of the drum and forming on the drum periphery adjacent pockets whose long sides are formed by the drum blades, and means associated with the drum for mounting the drum above the supporting table and supporting and transporting belt a distance substantially equal to the axial extent of the blades therefrom so that each ground meat portion within its pocket is flattened into a Hamburg steak patty substantially conforming to the dimensions of its pocket and said flexible cover is forced between the adjacent steak patties by said blades.

2,657,424
METHOD OF OPENING AND CLEANING POULTRY GIZZARDS
Guy R. Biddinger, Bellwood, and Carl H. Koons, Chicago, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
Application July 22, 1950, Serial No. 175,412
4 Claims. (Cl. 17—45)



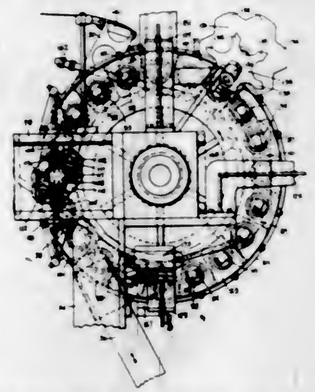
1. The method of opening a poultry gizzard or the like, including the steps of making an opening through two opposite walls of the gizzard and making a cut through one side wall of the gizzard with said cut being generally parallel to and intersecting said opening.

2,657,425
APPARATUS FOR MAKING WAX CANDLES
Daniel James Keogh, Saltdean, England, assignor to Price's Patent Candle Company Limited, London, England, a British company
Application May 12, 1951, Serial No. 226,010
Claims priority, application Great Britain May 18, 1950
8 Claims. (Cl. 18—1)



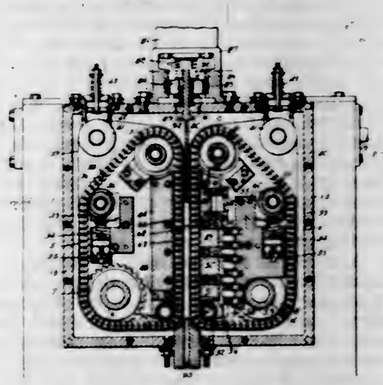
1. Apparatus for making tipped candles from a continuous rod of wax-covered wick having a free end, which comprises: feed mechanism for supporting said rod with said free end forward and alternately advancing said rod axially forward through the length of a candle and holding it stationary; a tipping cutter mounted for rotation about the axis of the said rod in the feed mechanism and further mounted for axial movement towards and away from said free end of the rod, said cutter having one or more blades with cutting edges disposed substantially tangentially to said rod and spaced radially away from said axis to permit said wick to extend axially near said cutting edges, for cutting away wax at said free end of the rod and uncovering a short length of wick thereat; means for rotating said cutter; means for alternately moving said cutter toward and away from said rod; and a parting cutter for cutting off the desired length of rod when the tipping cutter has completed its tipping operation.

2,657,426
CLOSURE MAKING MACHINE
Henry Z. Gora, Stratford, Conn., assignor, by mesne assignments, to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application April 22, 1949, Serial No. 89,088
16 Claims. (Cl. 18—5)



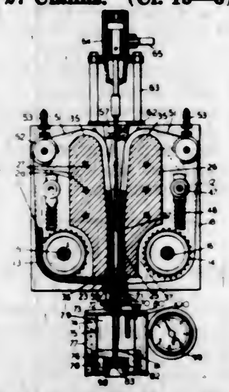
1. A machine for continuously applying gasket rings to container caps comprising a plurality of pairs of cooperating gasket-forming dies; rotatably mounted means for supporting said dies and advancing the same continuously; means for guiding a continuous strip of gasket material for movement into the path of said dies and between the cooperating dies of each pair as they advance to advance therewith; means controlled by the movement of the supporting means for successively closing said pairs of dies on said strip to form a gasket in one of each pair of dies from the material of said strip as the dies advance; means for successively opening said pairs of dies to free the strip therefrom; means for feeding a continuous succession of caps to insert one at a time between said pairs of opened dies in alignment with the gasket in one of each pair as they pass a given point; means controlled by the movement of the supporting means for transferring the gasket in each of said dies to the cap aligned with it while the supporting means continues to advance and pressing the gasket into adhering contact with the cap and means whereby the gasket-carrying caps are ejected one by one as they pass a delivery station.

2,657,427
EXTRUSION OF FILAMENT-FORMING MATERIALS
Edward James Upton, Spondon, near Derby, England, assignor to British Celanese Limited, a corporation of Great Britain
Application July 11, 1951, Serial No. 236,130
Claims priority, application Great Britain July 19, 1950
8 Claims. (Cl. 18—8)



1. A method of extruding powdered or granular fusible filament-forming material, said method comprising feeding the material into a zone laterally bounded at least part-way round by moving surfaces which lie substantially parallel to their direction of motion, compacting the material in an early part of said zone so as to form it into a coherent rod and to force it into frictional engagement with said surfaces whereby said rod is advanced with said surfaces, leading the advancing rod as it leaves said surfaces into a laterally confined space having a maximum cross-section substantially equal to that of said rod and leading to at least one extrusion orifice, melting the end of said rod in said confined space whereby the molten material is extruded through said orifice by the pressure of the advancing rod, rigidly supporting the material inwards of said moving surfaces in said early part of said zone and resiliently urging the compacted rod inwards of said moving surfaces in a later part of said zone whereby said frictional engagement is maintained in said later part and the applied force necessary to produce said pressure is distributed over the whole length of said zone.

2,657,428
EXTRUSION OF FILAMENT-FORMING MATERIALS
Edward James Upton, Spondon, near Derby, England, assignor to British Celanese Limited, a corporation of Great Britain
Application September 10, 1949, Serial No. 115,035
Claims priority, application Great Britain October 1, 1948
27 Claims. (Cl. 18—8)

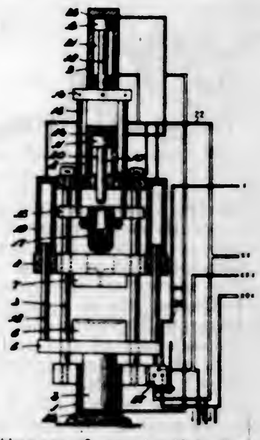


1. A method of extruding fusible filament-forming material, said method comprising feeding the material in powdered or granular form into a zone laterally bounded by moving surfaces which lie parallel to their direction of motion, compacting the material in said zone so as to form it into a coherent rod and to force it into frictional engagement with said surfaces whereby said rod is advanced with said surfaces, receiving the advancing rod as it leaves said surfaces in a laterally confined space leading to at least one extrusion orifice, and melting the end of said rod in said confined space whereby the molten material is extruded through said orifice by the pressure of the advancing rod.

4. Apparatus for the melt spinning of fusible filament-forming material supplied in powdered or granular form, said apparatus comprising two endless flexible members arranged to travel through a zone in which they present to each other opposed continuous surfaces each parallel to a common centre line, means for rigidly supporting said members behind said parallel surfaces, means for feeding the powdered or granular material into the space between said members and for compacting it into a rod between said parallel surfaces, means for driving said members so as to forward the compacting rod, and a heated extrusion head adapted to receive the compacted rod and to melt said rod, said extrusion head being formed with at least one extrusion orifice, through which the molten material is forced by the pressure of the advancing rod.

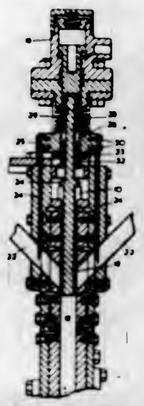
2,657,429
INJECTION MOLDING MACHINE
Jacob Faust, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 22, 1948, Serial No. 66,684
Claims priority, application Netherlands January 13, 1948
6 Claims. (Cl. 18—30)

1. Molding apparatus comprising a first molding member, a second molding member movable with respect to said first molding member, an extrusion member engaging one of said molding members and movable relative to said first molding member, means to apply a continuous force to said movable mold member and said extrusion member to position said first and second molding members and said extrusion member in spaced apart relationship, first and second force sources, means to apply force from said first force source to successively actuate said second molding member and said extrusion member against the action



of said continuous force to thereby successively engage said first and second molding members and one of said molding members and said extrusion member, and means responsive to the intensity of the force from said first source applied to said second molding member and to said extrusion member to apply the force from said second source to said second molding member and to said extrusion member.

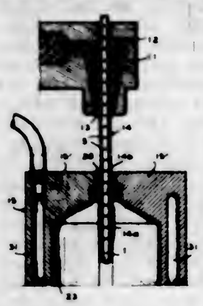
2,657,430
FEEDING OF MATERIALS
Edward James Upton, Spondon, near Derby, England, assignor to British Celanese Limited, a corporation of Great Britain
Application July 11, 1951, Serial No. 236,129
Claims priority, application Great Britain July 19, 1950
1 Claim. (Cl. 18—30)



Apparatus for the feeding of powdered or granular material, said apparatus comprising a downwardly extending duct for the flow of material into a receiving space, a gate adapted to extend partly across said duct, a feeler member,

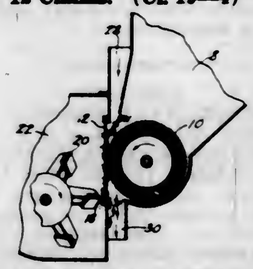
means for vibrating said member into and out of contact with the surfaces of the powdered or granular material in said receiving space, with a restoring force variating with its displacement from a standard position, and means for transmitting excess motion of said member away from said surface beyond a predetermined distance from said standard position of said gate so as to open said gate momentarily.

2,657,431
METHOD OF MAKING PLASTIC ARTICLES
Charles E. Slaughter, New Canaan, Conn., assignor to Extruded Plastics, Inc., a corporation of Connecticut
Application February 8, 1951, Serial No. 209,939
3 Claims. (Cl. 18—55)



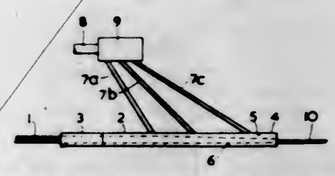
1. In a method of making expanded plastic articles, the steps of extruding organic plastic material in heated deformable condition, in the form of tubing, successively inserting a series of discrete tubular mandrels within the tubing as the latter attains its tubular shape as the tubing is being extruded, each mandrel having a central bore and perforations penetrating the mandrel from said bore to the exterior surface of the mandrel, the plastic covering the mandrel over the portion of the latter having perforations, withdrawing plastic covered mandrels successively from the extruding zone, transferring said plastic covered mandrels successively to an expanding zone, introducing fluid into the plastic covered mandrels successively to expand said plastic, setting the expanded plastic, and removing the expanded plastic from its mandrel.

2,657,432
APPARATUS FOR REMOVING BARBS FROM THE QUILLS OF FEATHERS
August J. Naab, Passaic, N. J.
Application October 15, 1952, Serial No. 314,859
13 Claims. (Cl. 19—4)



1. Apparatus for removing barbs from the quills of feathers comprising a cutter, an apertured guard located adjacent the cutter, means for supplying feathers to said guard on the side thereof opposite to said cutter, and means for causing air to flow past said feathers and through said guard toward the cutter so as to cause barbs on the feathers to stream through the apertures in the guard into position to be engaged by said cutter.

2,657,433
CONTINUOUS PROCESSING OF FILAMENTARY TOW
Horace B. Merriman, Coventry, England, assignor to Courtaulds Limited, London, England, a British company
Application October 29, 1951, Serial No. 253,706
Claims priority, application in Great Britain November 14, 1950
3 Claims. (Cl. 19—.48)

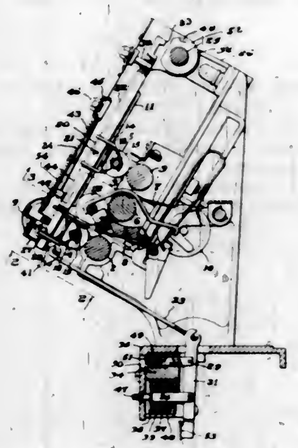


3. Apparatus for spreading a compact wet tow of substantially parallel continuous filaments into a flat band of substantially uniform thickness comprising a substantially flat tube having a narrow converging entrance channel and a diverging exit channel substantially longer than the entrance channel and substantially wider at the exit end than the width of the entrance channel, for receiving a tow of wet filaments, said tube having substantially flat upper and lower inner surfaces, and a compressed air supply source above said flat tube, in combination with a series of three groups of pipes connecting the compressed air source to said flat tube, one group having its exit near the entrance end of the flat tube; another group having its exit near the exit end of the flat tube and the third group having its exit between that of the other two, the center pipe of each group being in line with the longitudinal axis of said flat tube and the other pipes of each group forming an increasing angle with said longitudinal axis as they are positioned away from the center of each group, and each of said groups of pipes meeting the flat tube at an acute angle whereby compressed air from the compressed air source passes downwardly through said groups of pipes in a direction which is both transverse to and in line with the movement of the two through said flat tube, and whereby the air from the pipes passes through the tow and strikes the lower flat surface of said flat tube and is immediately deflected back through the tow by said lower surface, thereby spreading the filaments of the tow.

2,657,434
DRAWING MECHANISM FOR SPINNING AND ROVING FRAMES
Philip B. Tarbox and Gordon C. Anderson, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application October 20, 1951, Serial No. 252,291
7 Claims. (Cl. 19—135)

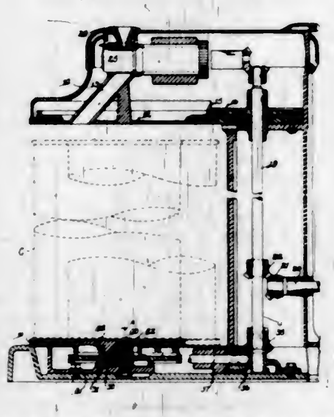
4. In a drawing mechanism for spinning and roving frames, the combination with a plurality of pairs of top and bottom drafting rolls positioned to act successively on a sliver, roll weighting lever means pivotally mounted at the rear end thereof for swinging movement in a vertical plane to carry top rolls toward and from a position overlying said bottom rolls, and means for

applying roll weighting pressure to a forward portion of said lever means including and con-



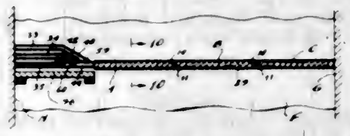
nected thereto a spring pressed lever having a bodily adjustable pivot.

2,657,435
MECHANISM FOR BODILY ROTATING SLIVER CANS IN FIXED ORIENTATION
John S. Dudley, Douglas, and Carl D. Brandt, Whitinsville, Mass., assignors to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application June 8, 1948, Serial No. 31,714
2 Claims. (Cl. 19—159)



1. In a textile machine having a rotated sliver-delivering device, in combination, a fixed frame member, a rotatable support for a can to receive the sliver, a single pivot for said support, means to move said pivot bodily in a circular path, a first gear fixed with respect to said frame member and concentric with said circular path, a second gear of equal size secured to said rotatable support and clearing said first gear, and an idle gear meshing with and connecting said two gears, whereby said can is reversely rotated with respect to the direction of circular movement of said single pivot and at equal angular speed so that the orientation of said can with respect to said fixed frame member is maintained unchanged at all times..

2,657,436
SLIDING PARTITION
John T. Fairhurst and Walter Fairhurst, Forest Hills, N. Y.
Application August 14, 1951, Serial No. 241,752
2 Claims. (Cl. 20—19)



1. In a partition construction of the character described, a plurality of sliding partition sections each having rollable supporting members, vertically aligned main floor and overhead channel tracks and vertically aligned branch floor and overhead channel tracks arranged with the branch floor tracks communicating with the main floor tracks and with the branch overhead tracks communicating with the main overhead tracks, said floor tracks each having a flat portion on which said rollable members are rollably supported, floor switches pivotally arranged in the channels at the intersections respectively of the branch floor tracks with the main floor tracks and having tapered ends disposed toward the main floor tracks, overhead switches pivotally arranged in the channels at the intersections respectively of the branch overhead tracks with the main overhead tracks and having tapered ends disposed toward said main overhead tracks, said overhead switches being tensioned to normally maintain the tapered ends thereof intermediate the width of the channel tracks, said partition sections having upwardly extending projections engaging in said overhead channel tracks and formed with angulated cam faces for engagement with the tapered ends of said overhead switches to thereby swing the same from normal tensioned position to open relation during movement of the partition sections from set-up position in the main track to the out-of-the-way position in the branch tracks, said partition sections having downwardly extending projections engaging in said channel tracks for guiding said partition sections and for engaging said switches to thereby move the same to open relation during movement of the partition sections from the out-of-the-way position in the branch tracks to set-up position in the main tracks, said floor switches having projections extending above the tracks and said partition sections having means adapted to engage said switch projections respectively to thereby swing one of the switches for opening up a branch track for the next succeeding partition section during movement from set-up position in the main track to the out-of-the-way position in the branch tracks respectively.

2,657,437
VENTILATED AWNING
Paul Moser, Clifton, N. J.
Application July 12, 1950, Serial No. 173,291
1 Claim. (Cl. 20—57.5)

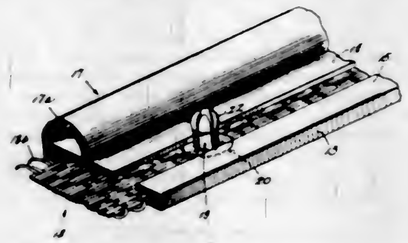
In a ventilated awning of the type comprising side bars and substantially horizontal slats engaging said side bars, said slats being spaced apart vertically to provide ventilation, the improvement comprising said slats being laterally compressible and formed with a slot in a longitudinal edge portion, and said side bars being formed with pockets, said pockets being grouped in pairs, the pockets of a pair facing each other, said bars further

comprising bridge portions located between the pockets of a pair and the top surface of said bridge portions conforming to the cross sectional shape of said slats, said pockets extending entirely below the plane of said top surface and having downward facing surfaces substantially coplanar with said top surface, said pockets of a pair further being spaced apart sufficiently so as



to require lateral compressive deformation of said slats in order to engage the same in said pockets and said slots of said slats engaging said pockets for locking said slats against longitudinal motion relative to said side bars, said slats in operative locked position further having surface contact with said upper surface and with said downward facing surfaces.

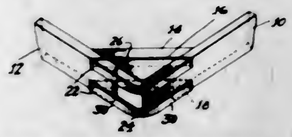
2,657,438
SEALING STRIP
Louis Spraragen, Bridgeport, Conn., assignor to Bridgeport Fabrics, Inc., Bridgeport, Conn., a corporation of Connecticut
Application August 5, 1948, Serial No. 42,569
5 Claims. (Cl. 20—69)



1. A sealing strip comprising a base of resilient material having a bottom, edge walls, and flanges extending from said walls over said bottom in parallel relation thereto to form a substantially closed channel therein, one of said flanges having a sealing bead projecting from the outer face thereof; and a stiff attaching strip disposed within the channel and having fastening means projecting therefrom between the flanges to secure the sealing strip to a support, said fastening means drawing said attaching strip toward said support and clamping the flanges to said support.

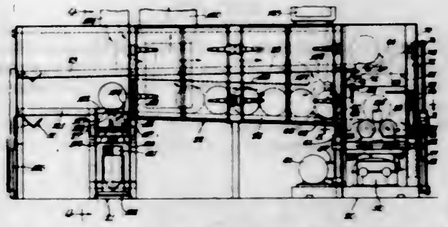
2,657,439
JOINT CONNECTION
Mac Levine, Worcester, Mass.
Application June 8, 1949, Serial No. 97,743
3 Claims. (Cl. 20—92)

1. A joint construction comprising a plurality of members arranged at an angle to each other, each member having an inner side surface facing a corresponding inner side surface of the other member, and an opposite outer side surface, and a corner block located in the included angle between the members, said members having their inner side surfaces facing each other in parallel overlapping contacting relation to the adjacent side surfaces of the corner block, each member having an edge exposed slot and the corner block having an exposed slot in align-



ment with the slots in the members, said combined slots forming in effect a single continuous slot from the outer side surface of one member, across the corner block, and intersecting the outer side surface of the other member, and a continuous closed endless band having a part thereof in the slot, said band extending out from the ends of the said combined slot and extending along the outer side surfaces of the members defining the joint, the part of the band extending out of combined slot being exposed and visible.

2,657,440
CENTRIFUGAL CASTING APPARATUS
Robert C. Myers, Cambridge City, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana
Application May 13, 1949, Serial No. 93,010
6 Claims. (Cl. 22—64)

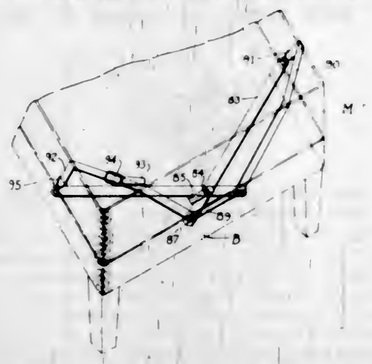


1. Apparatus for making centrifugal castings, comprising an elongated casing, die rotating means in one end of said casing for supporting a die during pouring of the metal, an ejector in the other end of said casing for ejecting castings from the dies, a pair of tracks in said casing between said die rotating means and ejector, one above the other, with one track arranged for conveying dies with the castings therein from said die rotating means to the ejector, and the other track for conveying empty dies from the ejector to the die rotating means, a partition within said casing for enclosing the space about said other track, and means for circulating air through said space to control the temperature of the dies.

2,657,441
HOLDER FOR BED CLOTHING
Sara E. Hart, Rochester, N. Y.
Application November 3, 1949, Serial No. 125,369
8 Claims. (Cl. 24—72.5)

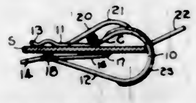
8. In a device of the character described, a generally flat anchoring frame adapted to be slipped between the foot end of a bed mattress and its support and embodying two adjustably spread wings adapted to extend, when the frame

is thus disposed, divergently from the foot of the mattress at approximately right angles to each other across the under corners of the mattress with their outer extremities accessible from the sides of the mattress, said wings being formed from two bars pivoted to each other near their inner end, the bars being foldable on their pivot in one direction into parallelism, a stop on the same pivot adapted to be pinched between said



inner ends when the bars are swung apart, to define the angle to which said wings may be swung relative to each other, said inner ends constituting the middle portion of the frame, and flexible straps adjustable as to length extending from the middle portion of the frame and mattress foot and having their loose ends both provided with attaching means engageable with the respective outer extremities of the said wings.

2,657,442
MOUNTING CLIP
William A. Bedford, Jr., North Scituate, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application October 23, 1948, Serial No. 56,153
1 Claim. (Cl. 24—81)



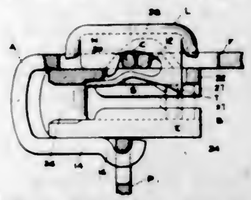
A fastener clip for securing conductors and the like on the end of a flat support comprising, a strip of resilient sheet spring material provided with an intermediate arcuate bight portion of more than 180 degrees and less than 270 degrees in circumferential extent, terminal leg portions extending from the ends of the bight in the same direction adapted to be disposed on opposite sides of a support to which said clip may be applied, one of said leg portions extending tangentially from said arcuate bight portion and having an integral support-engaging tongue extending from the end of the leg toward the bight portion and spring biased toward the other of the leg portions, the opposing leg portion extending from the bight portion along a choral line and overlying said first leg portion, a curved portion intermediate the second leg and the bight providing a concave article-receiving surface, said second leg portion and said bight portion being slotted for a substantial length intermediate the width thereof to provide an article gripping tongue integral with the second leg portion and joined to the leg adjacent the end thereof, the last said tongue extending toward said bight portion and having an article receiving bight intermediate its ends opposite said article receiving concave surface and opening toward said surface for cooperation therewith to receive and hold a conductor and the like, said leg portions being disposed in acute angular relation when in engagement with opposite sides of a thin support and in substantially parallel relation when in engagement with opposite sides of a substantially thick support.

2,657,443
FASTENING DEVICE
Richard A. Hartman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Original application December 4, 1946, Serial No. 714,120, now Patent No. 2,566,886, dated September 4, 1951. Divided and this application August 8, 1951, Serial No. 240,903
3 Claims. (Cl. 24—201)



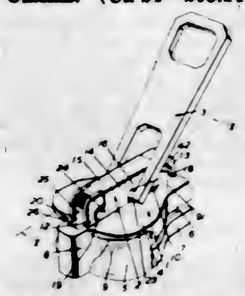
1. A fastener for attachment to a support to secure an object extending through a passage in said support, said support having a pair of spaced attaching holes on opposite sides of said passage therein, said fastener comprising a sheet metal body having a base adapted to bear on said support and provided with an opening adapted to register with said passage in the support, a pair of spaced hooks projecting from the underside of said fastener base on opposite sides of said opening therein, said hooks extending in the same general direction and having a spacing corresponding to that of said spaced attaching holes for entering said attaching holes in the attached position of the fastener, said base in the area of the opening therein being provided with an upwardly offset base portion adapted for spaced relation to said support in said attached position of the fastener, and means integrally formed on said upwardly offset base portion and projecting from the underside of said upwardly offset base portion and engageable with the support to bolster said upwardly offset base portion in said spaced relation to the support.

2,657,444
SLIDE FASTENER
Albert Bashover, Newark, N. J., assignor to Conmar Products Corporation, Newark, N. J., a corporation of New Jersey
Application February 14, 1951, Serial No. 210,900
18 Claims. (Cl. 24—205.14)



1. A reversible automatic lock slider comprising a slider body having a latch with a locking tooth and a cam surface engaged by a front finger piece for moving the latch to release the locking tooth, said locking tooth and cam surface both being located on the same side of said slider body, a yoke-like adapter disposed around the slider at the neck end and slidable for a limited distance longitudinally of the slider, a back finger piece provided on the back of the adapter, and means at the front of the adapter so cooperating with the front finger piece and the cam surface that a movement in fastener-opening direction of either finger piece releases the locking tooth.

2,657,445
SLIDER FOR SLIDE FASTENERS
Vitězslav Weber, Cardiff, Wales, assignor to Aero Zipp Fasteners Limited, London, England, a British company
Application May 2, 1950, Serial No. 159,485
Claims priority, application Great Britain May 24, 1949
8 Claims. (Cl. 24—205.14)



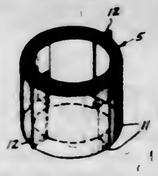
1. A slider for a slide fastener comprising in combination: a slider body having a Y-shaped channel, an attaching member, a spring, at least one locking finger, said attaching member, spring and locking finger constituting a structural unit, said attaching member being substantially in the shape of a cap-like yoke having two side walls and a transverse wall connecting said side walls and being rigid in its longitudinal direction, said side walls extending in the direction of the longitudinal axis of said slider body, said attaching member being tiltably mounted in said slider body, a pull member linked to said attaching member and through the latter to said slider body, and a lug mounted on said slider body, said locking finger normally extending towards said Y-shaped channel, said spring being in the shape of a flat tail-like spring projecting and extending outwardly from said cap-like yoke, said lug having a second channel at its outer surface, said flat spring being curved towards said slider body, passing around and bearing against the outer surface of said lug, being engaged with said second channel and bearing against the bottom surface of the latter for normally urging said locking finger towards said Y-shaped channel, and said pull member being arranged for acting on a portion of said unit so as to retract said locking finger from said Y-shaped channel against the action of said spring upon extertion of a pull on said pull member.

2,657,446
SAFETY SNAP HOOK
Tom R. Roberts, Homestead, Fla.
Application July 9, 1951, Serial No. 235,703
3 Claims. (Cl. 24—241)

1. A snap hook structure comprising a body having a hook portion, a guard pivotally connected to said body and normally extending to the end of said hook to form a closure therefor, a spring device slidably mounted in said body and including a keeper normally engageable with said guard to prevent movement of the latter away from its normal position, said spring device further comprising a spring seat and a spring interposed between said seat and said keeper, and a single pin pivotally connecting said guard to said body and engaging said spring seat to fix the latter in said hook body.



2,657,447
EMPLACEMENT FORM
William L. Pellanda, Jr., Spokane, Wash.
Application August 25, 1951, Serial No. 243,670
1 Claim. (Cl. 25—128)



An emplacement form for the purpose described comprising a sleeve-like body having two semi-cylindrical sections of absorbent material adapted to encircle a pipe and having a sufficient body stability to support poured concrete against horizontal movement toward the pipe during the setting process; companion edge faces on each section disposed in face to face relation when the sections are about the pipe and a loop of wire encircling each section transversely of the arc thereof.

2,657,448
MATERIAL FOR CONSTRUCTING CONCRETE WALLS
Louis Faye, Paris, France
Application May 10, 1952, Serial No. 287,158
Claims priority, application France May 16, 1951
3 Claims. (Cl. 25—131)



1. A material for constructing concrete walls by casting successive courses thereof, comprising post elements consisting each of a wooden member the height of which is equal to that of one course to be constructed, said wooden member, having a front, a rear and two lateral faces, being formed with a lower portion thinned by a cut in said front face, and an upper extension the front face of which forms the continuation of said front face of said wooden member, of a pair of angle members fixed along said lateral faces and forming the continuation of said rear

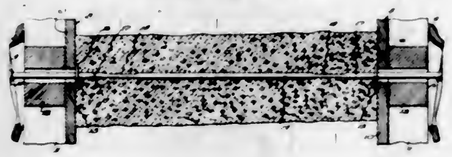
face of said wooden member on either side thereof, and of a pair of lugs secured to, and projecting on either side of said front face, above said lower end, means for fastening together a pair of post elements so that they will register with each other, means for adjusting the supporting relationship between the lower end of one post element and the upper extension of another post element, means for assembling two superimposed post elements by causing the lower end of one post element to be supported by the upper extension of the other of said post elements, panel elements having the same height as one course, and wedge members adapted to be inserted between one lug of post element and one panel element for clamping said panel element against said angle members of said post element.

2,657,449

TIE ROD FOR CONCRETE WALL FORMS

Bror Hillberg, Chicago, Ill., assignor to Superior Concrete Accessories, Inc., Chicago, Ill., a corporation of Illinois

Application March 2, 1949, Serial No. 79,141
2 Claims. (Cl. 25—131)



1. As a new article of manufacture, a tie rod designed to hold a pair of concrete wall forms in spaced apart relation, formed of a piece of metal of circular cross section and certain hardness, having a portion thereof inwards of one of its ends weakened to form a break-off point, and embodying at a comparatively small distance outwards of the break-off point an originally flat circular form-engaging washer formed of harder metal and having at one side thereof and spaced a small distance from its inner periphery a concentric die-formed inwardly tapered truly continuous annular groove whereby the portion of the washer inwards of the groove is extruded inwards and is caused to be of shallow segmental cross section and to form in the contiguous portion of the rod without rupture of the fibers thereof or weakening it to the same extent as the weakened portion of the rod, a shallow correspondingly shaped truly continuous annular groove by which the washer is so interlocked with the rod that it is positively held against displacement lengthwise of the rod while at the same time it grips the rod tightly but permits the rod to turn relatively to it in response to application of a comparatively heavy turning force to the rod while the washer is held against rotation.

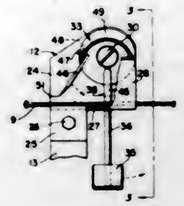
2,657,450

THREAD GAUGING AND FLAW DETECTING DEVICE

Raymond E. Solliday and Samuel A. Steere, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application March 30, 1949, Serial No. 84,284
5 Claims. (Cl. 28—64)

5. A device for gauging and detecting flaws in a moving thread bundle comprising means providing a thread guide surface defining a path of travel for the thread bundle; a body member rotatably supported about an axis in generally parallel and transverse relation to the thread guide surface; feeler means on the body member in spaced parallel relation to the thread guide surface, normal to the direction of travel of the thread bundle and in contact therewith; weight means on the body member limiting the extent of rotation thereof and maintaining the feeler means in yieldable contact with the thread bundle; a separate cutter means on the body member disposed in rearwardly spaced relation to the feeler



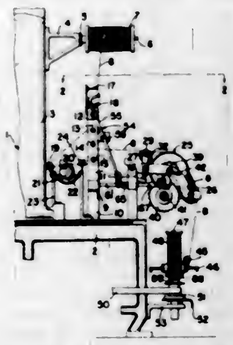
means in the direction of the path of travel of the thread bundle across the guide surface for contact with the thread bundle and the thread guide surface on rotation of the body member against the influence of the weight means; and means on the body member and on the thread guide surface which cooperate to direct the thread bundle into position between the feeler means and the thread guide surface.

2,657,451

STOP MOTION DEVICE FOR STRAND MANIPULATING APPARATUS

Raymond E. Solliday and Samuel A. Steere, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application August 23, 1950, Serial No. 180,944
14 Claims. (Cl. 28—71.5)



1. Apparatus for the treatment of cord, thread, and other similar filamentous material of substantially continuous lengths comprising a cord supply; a cord manipulating device which exerts tension on the cord as it is withdrawn from the cord supply; means for driving the cord manipulating device; a cam for selectively disengaging the cord manipulating device from the driving means and temporarily maintaining them in disengaged relation; a shiftably mounted feeler element arranged to contact and be retained in position by the cord as it passes between the cord supply and the cord manipulating device; means on the driving means for actuating the cam; and a trip mechanism which is operated by the feeler element in the event of relaxation of the cord tension thereon to release the cam for engagement with the cam actuating means.

2,657,452

TUBULAR GETTER CONTAINER

Cornelis Frederik Veenemans, Simon Henricus Rudolf Visser, and Frans Jansen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application May 27, 1948, Serial No. 29,558
Claims priority, application Netherlands October 27, 1947
4 Claims. (Cl. 29—25.13)



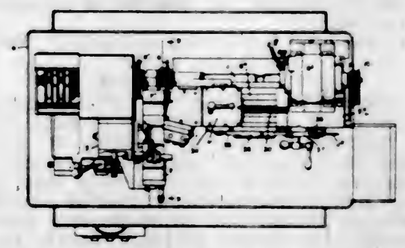
1. A method of manufacturing a tubular getter container having a tubular shaped metal envelope partially surrounding the said getter and from which envelope volatilized getter may escape in a directional jet, comprising the steps of forming a longitudinal aperture in a wall of a tubular metal envelope, closing the said aperture, filling the so-closed envelope with a pulverulent getter substance, and drawing the so-filled envelope to reduce the diameter thereof and to cause the said envelope to separate along the line of the said longitudinal aperture.

2,657,453

MACHINE TOOL OF THE SCREW MACHINE TYPE

John Henry Brodhun, Birmingham, Mich.

Application February 24, 1948, Serial No. 10,295
4 Claims. (Cl. 29—39)



1. In a machine tool of the screw machine type including a bed and a work holding spindle mounted thereon; a self contained tool holding and operating assembly unit comprising a base longitudinally slidable on said bed, means for locking said base to said bed in different positions of adjustment thereon, a carriage travellingly mounted on said base, a turret on said carriage and a power actuating mechanism mounted on said base including means for reciprocating said carriage and means for periodically indexing said turret.

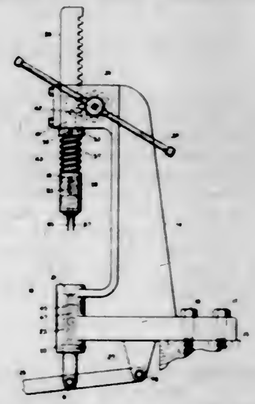
2,657,454

STRAND INSERTION

Daniel Duhurst Huyett, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

Application December 24, 1947, Serial No. 793,747
10 Claims. (Cl. 29—148)

1. A method of introducing a strand material through a solid resilient substance and securing the same therein, which comprises the steps of inserting a needle and a sleeve coaxially through said substance with at least the point of said needle penetrating said substance prior to penetration of said substance by said sleeve, said sleeve having an internal diameter not substantially greater than the maximum external diameter of the body of said needle, said insertion of said needle and sleeve forming an opening through said substance of a diameter corresponding to the external diameter of said sleeve and expanding said substance; withdrawing said needle from said sleeve where said sleeve is encompassed by said substance; inserting strand material axially into said sleeve where said sleeve is encompassed by said substance; and withdrawing said sleeve from said substance while maintaining said strand material within said substance whereby said substance contracts about and grips said strand material.



7. An apparatus for facilitating the introduction of strand material through a solid resilient substance and securing the same therein which comprises a needle; means operatively connected to said needle for moving the same axially in either direction to cause at least the point of said needle to pass through said substance and to withdraw said needle from said substance; a support for holding said substance in position opposite the point of said needle and in alinement therewith to be pierced by at least the point of said needle as the needle is moved in one direction; a sleeve having an internal diameter not substantially greater than the maximum external diameter of the body portion of said needle; and means operatively connected to said sleeve for moving the same axially in either direction to cause said sleeve to pass through said substance and to expand said substance and to be withdrawn therefrom, the axes of said needle and sleeve being on the same straight line, said needle being moved to cause at least the point thereof to penetrate said substance prior to penetration of said substance by said sleeve.

2,657,455

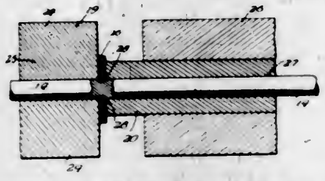
METHOD OF MANUFACTURING TIE RODS FOR CONCRETE WALL FORMS

Bror Hillberg, Chicago, Ill., assignor to Superior Concrete Accessories, Inc., Chicago, Ill., a corporation of Illinois

Original application March 2, 1949, Serial No. 79,141. Divided and this application November 25, 1949, Serial No. 129,370
2 Claims. (Cl. 29—155)

1. That improvement in the manufacture of a tie rod of the type that is adapted to hold in spaced apart relation a pair of concrete forms and has a break-off point inwards of one end thereof and a form-engaging washer a small distance outwards of the break-off point, which com-

prises mounting at the proper location on a cylindrical steel rod of certain hardness a flat washer of harder steel and with a circular inner periphery of minutely greater diameter than the rod, and then die-forming in the washer at an extremely small distance outwards of its inner periphery such a concentric inwardly tapered truly continuous annular groove that the portion of the washer directly inwards of the groove is extruded inwards and is caused to be of shal-



low segmental cross section and to form in the contiguous portion of the rod without rupture of the fibers thereof a shallow correspondingly shaped truly continuous annular groove whereby the washer is so interlocked with the rod that it is positively held against displacement lengthwise of the rod while at the same time it grips the rod tightly but permits the rod to turn reltively to it in response to application of a comparatively heavy turning force to the rod while the washer is held against rotation.

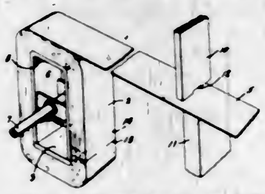
2,657,456

METHOD OF MAKING JOINTS IN WOUND CORES

Charles W. Moody, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application December 14, 1948, Serial No. 65,193

5 Claims. (Cl. 29—155.57)



1. The method of making a jointed wound magnetic core for electric apparatus comprising, weakening the tensile strength of a strip of magnetic material at a plurality of predetermined differently spaced places therein, winding said strip flat-wise into a closed multi-layer magnetic core having at least one of said weakened places in each layer lying within a transverse zone through said core which is relatively short in comparison with the circumference of said core, and mechanically severing said core at said weakened places in said zone so as to form a joint in said core at said zone.

2,657,457

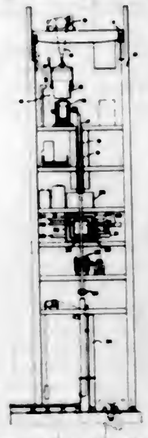
CONTINUOUS METAL PRODUCTION AND CONTINUOUS GAS PLATING

Harry A. Toulmin, Jr., Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

Application September 10, 1949, Serial No. 115,033

14 Claims. (Cl. 29—189)

1. A process of casting and plating metal simultaneously and continuously which comprises the steps of pouring molten metal into a mold and continuously withdrawing hot congealed metal from the mold in a downwardly direction, cooling said continuously cast metal to a temperature in the range of 300 to 600° F., thereafter subjecting said cast metal while continuously moving along to a heat-decomposable metal vapor compound,



at least a portion of said vapor decomposing at said temperature range whereby metal is deposited on said continuously moving cast metal, and severing the resultant continuously cast and gaseous metal plated product into a desired length.

2,657,458

METHOD OF JOINING COPPER MEMBERS

Leopold Pessel, Whitemarsh, Pa., assignor to Radio Corporation of America, a corporation of Delaware

No Drawing. Application January 29, 1949, Serial No. 73,664

5 Claims. (Cl. 29—360)

1. A method of joining two metallic members consisting essentially of copper, at least one of said members having a covering of organic enamel, said method comprising placing said members in contact and immersing them in a bath of molten lead having a layer of a material comprising molten lead oxide floating thereon, to remove said enamel and flux the surfaces of said members with said lead oxide, and then removing said members from said bath with a coating of lead deposited thereon.

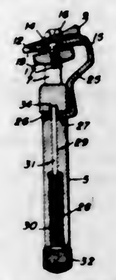
2,657,459

BLADE ADJUSTING MEANS FOR SAFETY RAZORS

Harry B. Carter, Austin, Tex.

Application August 6, 1951, Serial No. 240,557

2 Claims. (Cl. 30—57)



1. A safety razor including a handle having a front end yoke, a blade in said yoke having end

trunnions pivoted to said yoke for tiling of said blade in the yoke, a guard backing said blade, means pivotally connecting said guard to said trunnions for tilting to tilt said blade, a lever on said guard for tilting the same, and means to lock the lever to the handle in the different tilted positions of the guard comprising an axial pin threaded into said handle, and a slot in said handle receiving one end of said lever and into which the pin is adjustable for clamping engagement with said end of the lever.

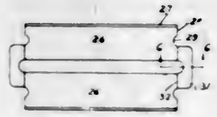
2,657,460

RAZOR BLADE

Michael J. Cerino and Errol F. Kingsley, Portland, Oreg., assignors to Firm Blade Razor Company, Inc., Portland, Oreg., a corporation of Oregon

Original application March 24, 1947, Serial No. 736,712. Divided and this application January 11, 1949, Serial No. 70,361

1 Claim. (Cl. 30—351)



A double edge blade comprising an intermediate section having opposed parallel cutting edges, longitudinal extensions of reduced width projecting centrally from the ends of the intermediate section, a central slot extending longitudinally of the intermediate section and forming edges which extend parallel to said cutting edges at least to the longitudinal extensions, and grooved score marks formed transversely of the blade and intercepting the parallel edges of the longitudinal slot in line with the ends of the intermediate section, the grooves functioning to facilitate breakage of the blade transversely between the longitudinal extensions and the intermediate section whereby to produce a pair of rectangular single edge blades having parallel sides and square corners.

2,657,461

DENTAL IMPRESSION TRAY

Melvin P. Sweeney, Hanford, Calif.

Application June 16, 1952, Serial No. 293,714

8 Claims. (Cl. 32—17)



1. An impression tray comprising a tray member having an outer flange and a central hollow rib, anchoring means removably positioned in the rib and extending into the interior of the member for retaining a charging material in the member, and additional anchoring means on the flange extending into the interior of the member for coacting with the first named means.

2,657,462

EDENTULOUS AND PARTIALLY EDENTULOUS DEMONSTRATIONAL AND EDUCATIONAL MODEL

William Arrow, Chicago, Ill.

Application June 30, 1952, Serial No. 296,394

4 Claims. (Cl. 32—71)



1. A demonstrational and educational edentulous model comprising at least two body sections intimately connected together, one constituting a base and formed of relatively hard material with respect to said other section and said other section formed of a pliable material capable of being incised and retracted from the base, and a simulated bone structure embedded between said body sections.

2,657,463

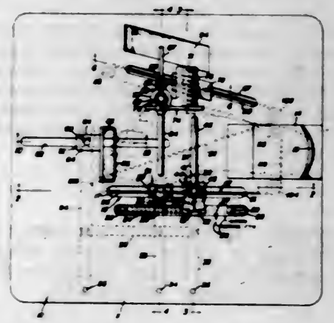
FOOT-MEASURING MACHINE

Burdell D. Spencer, Oxon Hill, Md., assignor to the United States of America as represented by the Secretary of the Army

Application March 5, 1952, Serial No. 274,992

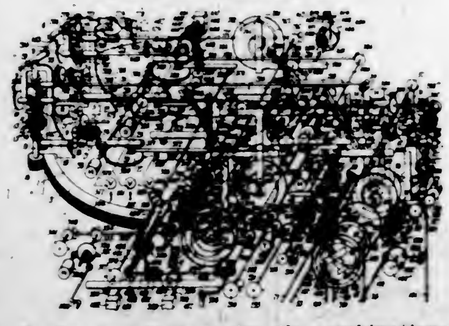
10 Claims. (Cl. 33—3)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A foot-measuring machine comprising a support plate having a first abutment mounted thereon for engaging the heel of a foot, a gage element connected with the support plate and movable toward and from the first abutment and adapted to engage the foot forwardly of the first abutment, there being a length-size scale upon the support plate for coaction with the gage element to determine the length size of the foot, a movable abutment disposed substantially opposite the gage element and connected with the gage element and movable longitudinally and transversely of the foot when the gage element is moved, a vertically reciprocatory element carried by the movable abutment and bearing a foot width measuring scale, the support plate having a cam surface formed thereon near said movable abutment, and cam follower means connected with the vertically reciprocatory element and engaging the cam surface and causing reciprocation of the reciprocatory element when the movable abutment moves longitudinally or transversely of the foot.

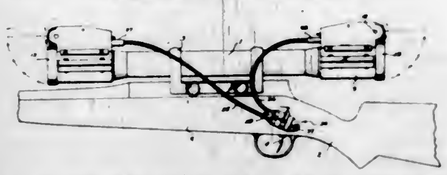
2,657,464
FIRE CONTROL APPARATUS
Hannibal C. Ford, Jamaica, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application July 26, 1928, Serial No. 295,437
82 Claims. (Cl. 33—49)



1. In fire control apparatus, the combination of directional mechanism, means for automatically controlling the mechanism to follow a target in both train and elevation while there is substantially uniform relative movement between the target and the apparatus, and separately controlled means for adjusting the first named means to correct for changes in the relative motion between the apparatus and the target.

11. In fire control apparatus, the combination of a device adapted to bear a predetermined relation to the line between two relatively moving objects, means for automatically maintaining the device in such predetermined relation irrespective of relative movement between the objects in train and elevation while the relative movement is substantially uniform, means for maintaining the range between the objects, means for adjusting the first named means to correct for changes in the relative movement between the objects and means for adjusting the range-maintaining means to correct for changes in the range rate between the objects.

2,657,465
COVER FOR TELESCOPIC SIGHTS
Thomas W. Lloyd, Sutherlin, Oreg.
Application April 17, 1950, Serial No. 156,446
8 Claims. (Cl. 33—50)



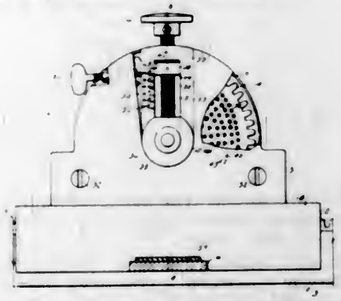
1. In combination with a telescopic sight for a rifle having a stock and a trigger, said telescopic sight having an elongated barrel and a lens arranged at each end of said barrel, protective covers one mounted at each end of said barrel, each of said covers being movable between two selective positions, in one position said cover shielding the lens at that end of said barrel and in the other position uncovering said lens, a rod pivotally carried by each of said covers for movement therewith, a yieldable overcenter means bearing on each rod to hold the corresponding cover at the extremity of that position to which it is moved, and distant tripping means for moving both said rods against the yieldable force of the respective overcenter means, said tripping means including sheathed flexible cables having an actuator element joined to one end thereof and a bell crank joined to the opposite end, said actuator element being mounted upon said rifle stock above said trigger for actuation by the trigger hand.

2,657,466
CLINOGRAPH
Leonard Godfrey Pinney Thring, Cambridge, England
Application January 22, 1951, Serial No. 207,096
Claims priority, application Great Britain February 3, 1950
7 Claims. (Cl. 33—75)



1. A clinograph comprising a bearing plate and a segment together forming a complete thirty degree right angle triangle, the bearing plate having two straight sides at right angles to one another and a concave arcuate side, and the segment having a straight chord and a convex arc fitting the concave arc of the bearing plate and adapted to slide along it, angular scales being provided to indicate the inclination of the chord to the straight sides of the bearing plate, wherein the arc of the segment subtends an angle not greater than 60° at the centre, and the longer side of the bearing plate, when produced, lies just outside the circle of which the segment forms a part, whilst the shorter side, when produced, intersects that circle.

2,657,467
APPARATUS FOR RULING NEGATIVES IN THE PHOTOLITHOGRAPHIC ART
William E. Lewis, Portland, Oreg.
Application April 20, 1951, Serial No. 222,041
7 Claims. (Cl. 33—76)

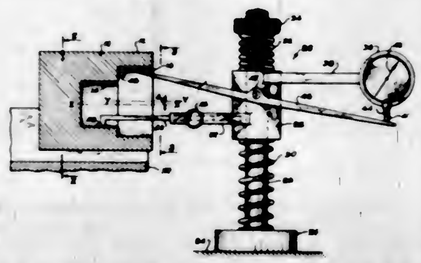


1. In an apparatus for ruling negatives in the photolithographic art, a hollow shaft, a gear

mounted thereon having a plurality of holes in one side thereof arranged in a plurality of concentric circles, a radial arm axially mounted with reference to said shaft, a pin carried by the radial arm and adapted to be moved into alignment with a desired hole circle, a spring to urge the pin to enter a hole in said hole circle when centered therewith, and a rod slidable in said hollow shaft to move the pin out of the hole.

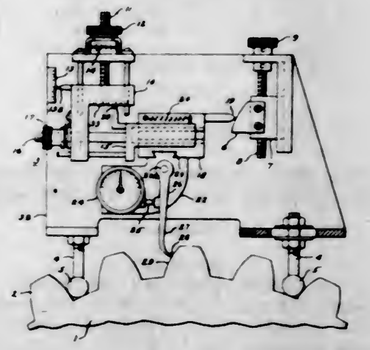
2. In an apparatus for ruling negatives in the photolithographic art, a rack, a block movable over the rack, a ruling blade attached to the block, a standard on the block, a cover plate attached to the standard formed with spaced apart portions which constitute a pair of stops, a hollow shaft journalled in the standard, means to rotate the shaft, a gear on said shaft in mesh with the rack having a plurality of holes in one side thereof arranged in a plurality of concentric circles those in each circle equally spaced a predetermined distance apart, a radial arm movable axially with respect to the shaft and circumferentially between the stops one of which limits the circumferential movement of said radial arm in a forward direction and the other said movement in a backward direction, means in connection with the backward movement stop to fix the desired limit of said backward movement of the radial arm, a locking pin carried by the radial arm adapted to be moved into alignment with a desired hole circle, a spring to move said arm axially toward the gear to permit the locking pin to enter a hole in said hole circle when centered therewith, and a rod slidable in said hollow shaft to move the radial arm away from the gear to remove the locking pin therefrom to permit the gear to be rotated independent of the arm.

2,657,468
INSPECTION GAUGE
Albert E. Lyons, Midland Park, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application April 12, 1952, Serial No. 282,043
3 Claims. (Cl. 33—172)



1. An inspection gage comprising a post member; a body member mounted on the post member for movement therealong; a first spring disposed between one end of said post member and said body member for urging said body member in one direction along the post member; a second spring disposed between the other end of said post member and said body member for urging said body member in the other direction along the post member; adjustable means carried by the post member for varying the force of one of said springs on said body member; a first arm secured to the body member for movement therewith; a second arm pivotally mounted on the body member; and a dial indicator mounted on the body member and engageable with the pivotally mounted arm for indicating pivotal movement of said second arm wtih respect to said first arm.

2,657,469
PORTABLE GEAR TOOTH CHECKING INSTRUMENT
Francis A. Brown, Saugus, Mass., assignor to General Electric Company, a corporation of New York
Application December 30, 1949, Serial No. 136,050
1 Claim. (Cl. 33—179.5)

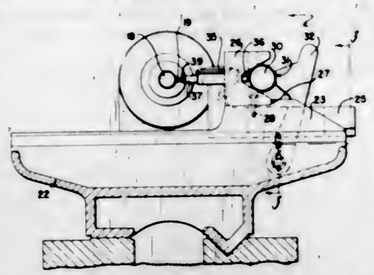


An instrument for checking gear teeth and the like comprising a base, means for supporting said base including adjustable foot portions adapted to seat between teeth at circumferentially spaced locations on a gear to be checked, a template having a master profile for the tooth to be checked, means securing the template to the base with the profile thereof substantially parallel to the tooth profile to be checked, a template follower member, a carriage with guide means supporting the template follower member for linear sliding movement towards and away from the profile of the template relative to the carriage, micrometer screw means carried on the base and connected to move said carriage towards and from the gear teeth in a line parallel to the plane of the profile of the template, whereby said template follower member traces a path parallel to the template profile, a lever member pivotally connected to the follower member and having a stylus adapted to contact the profile of the gear tooth being checked, and micrometer indicator means for detecting pivotal movement of said lever relative to the follower member whereby the profile of the gear tooth is compared with the master profile of the template.

2,657,470
PRESETTING DEVICE FOR BORING TOOLS
Edward A. Allen, Westfield, and Francis P. Healy, Springfield, Mass., assignors to Van Norman Company, Springfield, Mass., a corporation of Massachusetts
Application June 15, 1950, Serial No. 168,264
4 Claims. (Cl. 33—185)

2. A presetting device for rotating boring tools and the like comprising a V block having a sixty degree included angle and positioned with the line of its apex parallel to and at a predetermined distance from the axis of rotation of the boring tool, the block being provided with an opening extending therethrough at the V of the block, the V of the block being directed toward the axis of the tool, releasable means for holding a cylinder in the V block, a slide mounted for movement at right angles to both said line and said axis, and an adjustable dial indicator having opposed measuring abutments mounted on said slide for movement therewith to bring one

of its abutments, by way of said opening, against the side of said cylinder nearest the apex, and



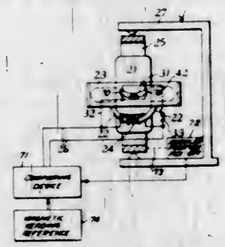
with the other located at said predetermined distance from the first when the indicator reads zero.

2,657,471

GYROMAGNETIC COMPASS

Ivor Lewis Thomas and Gwilym Emrys Roberts, South Farnborough, England, assignors, by mesne assignments, to Kelvin & Hughes Limited, Glasgow, Scotland, a company of Great Britain

Application February 27, 1948, Serial No. 11,555
In Great Britain March 14, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 14, 1966
10 Claims. (Cl. 33—222)



7. Gyromagnetic compass apparatus comprising magnetic means to afford a magnetic heading reference, an azimuth gyroscope to afford a gyroscopic heading reference, adjusting means responsive to differences between said heading references for adjusting said gyroscopic heading reference to substantial correspondence with said magnetic heading reference, an anti-topple device for applying, when actuated, azimuthal torque to said gyroscope and control means operating in response to actuation of said anti-topple device to reduce the response of said adjusting means.

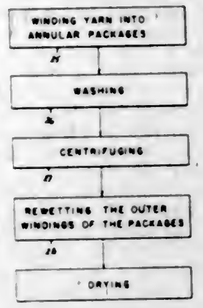
2,657,472

DRYING WOUND TEXTILE PACKAGE

Horace P. Fry, Jr., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application April 27, 1951, Serial No. 223,235
3 Claims. (Cl. 34—8)

1. A method of drying a wound annular package of yarn comprising the steps of rotating the package rapidly about its axis to remove loosely held liquid, immediately thereafter rotating the package at a slow speed while applying liquid to the radially outer surface of the package to increase the concentration of liquid held in a layer of the package adjacent and concentric to said surface to an extent substantially greater than that in concentric portions of the package adja-



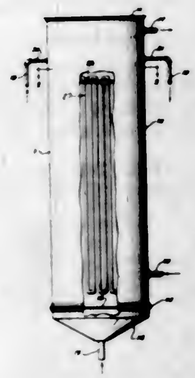
cent its inner surface, and then drying the package within a gaseous drying medium.

2,657,473

METHOD AND APPARATUS FOR TREATING SOLIDS

John E. Montgomery and Winston H. Cundiff, Baton Rouge, La., assignors to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware

Application February 18, 1949, Serial No. 77,202
8 Claims. (Cl. 34—10)



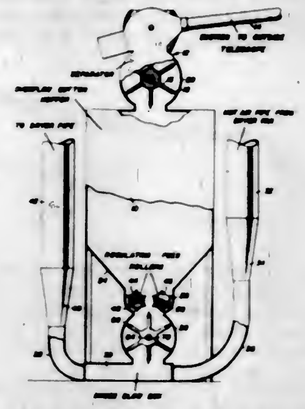
1. A method of effecting indirect heat exchange with finely divided solids which comprises establishing and maintaining a dense turbulent body of everchanging fluidized finely divided solids within a confined zone by continuously passing a gaseous medium therethrough at a fluidizing velocity, continuously feeding finely divided solids into the body of fluidized solids below the level thereof in said zone, continuously discharging treated finely divided solids from said zone at the level of the dense turbulent body of fluidized solids, unidirectionally flowing the fluidized solids in contact with a plurality of separate and independent inner, intermediate and outer spaced heat transfer surfaces in said zone to provide substantially uniform temperatures across the fluidized solid bed, dividing the flowing solids throughout substantially the entire longitudinal flow thereof into a concentric series of uniformly restricted substantially annular streams radially intercommunicating between the spaced heat transfer surfaces.

2,657,474

COTTON FEED CONTROL SYSTEM

Woodrow W. Bledsoe, Dyersburg, Tenn.

Application March 14, 1952, Serial No. 276,587
1 Claim. (Cl. 34—57)



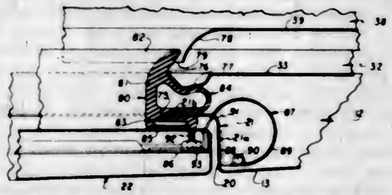
A cotton feed control system comprising an elongated hopper having a reduced entrance opening and downwardly and inwardly inclined lower walls, a discharge opening below said walls, a separator supplying cotton to said hopper, a power driven spider disposed between said hopper and said separator and rotating in a cylindrical member in communication with said reduced entrance opening and said separator, said spider being provided with rubber flaps for engaging the inner periphery of said cylinder and sealing said hopper entrance opening, a pair of spaced parallel power driven feed rollers mounted at the lower end of said walls over said discharge opening, a cylinder underlying the rollers and having an upper opening in registry with the discharge opening, an elongated box underlying said cylinder, said box having an opening and said cylinder having a lower opening in registry with the opening in the box, a hot air conductive pipe connected to one end of said box, an outlet pipe adapted to extend to a drier and having an end attached to the other end of the box, and a spider member rotatably mounted within the cylinder including a plurality of rubber blades engaging the inner periphery of said cylinder to prevent the passage of hot air into the hopper from the box.

2,657,475

CLOTHES DRYING MACHINE

Clifford E. Erickson, Chicago, Ill., assignor to General Electric Company, a corporation of New York

Application March 30, 1951, Serial No. 218,427
3 Claims. (Cl. 34—139)



1. In a clothes drying machine of the class described including a cabinet having an upstanding front wall provided with a front access opening formed therein, a casing housed in said cabinet and having an upstanding front wall provided with a front access opening formed therein, a substantially horizontally disposed clothes-receiving drum enclosed in said casing and having a substantially cylindrical perforated wall and an upstanding front wall provided with a front access opening formed therein, said casing front wall being arranged adjacent to and in spaced relation with both said cabinet front wall and said drum front wall, said front access openings being substantially annular and arranged substantially in alignment with each other, said cabinet front wall having a rearwardly directed depression formed therein and surrounding said front access opening formed therein, a front door carried by said cabinet front wall and mounted in said depression for movements between closed and open positions with respect to said front access openings, said front door being provided with inner and outer walls arranged in spaced-apart relation, said inner wall being spaced forwardly of the portion of said cabinet front wall disposed within said depression and said outer wall being disposed substantially flush with the portion of said cabinet front wall surrounding said depression when said front door occupies its closed position, said drum front wall having a forwardly flared annular rim surrounding said front access opening formed therein and spaced rearwardly from said casing front wall, and means for rotating said drum about its longitudinal axis; the combination comprising a unitary throat member including an annular sleeve-like body bridging the space between the portion of said cabinet front wall disposed in said depression and said casing front wall and terminating in a rearwardly directed and outwardly flared lip bridging the space between said casing front wall and said drum front wall and projecting into said drum through said front access opening formed therein in order to provide a smooth access throat from the exterior through said front access openings into the interior of said drum, said sleeve-like body having a surrounding annular slot formed therein and embracing the sides of the portion of said cabinet front wall disposed in said depression in order frictionally to secure said member in place, the intermediate portion of said sleeve-like body carrying a first hollow deformable gasket arranged in compression between the portion of said cabinet front wall disposed in said depression and said casing front wall adjacent to and in surrounding relation with said front access openings respectively formed therein and sealing the space therebetween, the front portion of said sleeve-like body carrying a second hollow deformable gasket arranged in said depression adjacent to the portion of said cabinet front wall disposed in said depression and in surrounding relation with said front access opening formed therein, said second gasket being compressed between the portion of said cabinet front wall disposed in said depression and said inner wall and sealing the space therebetween when said front door occupies its closed position.

2,657,476

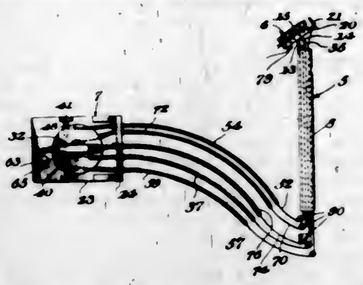
SIGNALING SYSTEM AND DEVICE FOR AIRCRAFT OPERATION

Ralph L. Holcombe, Ada, Okla., assignor to Trans-Trading Corporation, Washington, D. C.

Application March 20, 1951, Serial No. 216,629
12 Claims. (Cl. 35—12)

1. In combination with a control lever adapted to be actuated by a student, a housing rockably mounted on the upper end of the control lever for receiving the thumb of the student when the control lever is grasped adjacent the upper

end thereof, flexible cables connected to said housing, and means for actuating said cables to



move the housing in a direction corresponding to the direction of an intended control lever movement.

2,657,477
FOOT AND/OR FOOTWEAR PROTECTOR
Arthur Elmo Winslow, Andover, Va.
Application March 18, 1952, Serial No. 277,137
1 Claim. (Cl. 36—2)



A foot and footwear covering including a one-piece flexible body of plastic material having a toe portion comprising an upper part and a lower part joined thereto, a second portion extending from the upper part and sides of the toe portion and having a pair of lower edges and a pair of upwardly extending rear edges, and an ankle-covering portion extending upwardly from the toe portion and second portion and having a pair of rear edges joining the first-named rear edges, and an upper edge joining the second-named rear edges, the thickness of the material forming said second portion and the thickness of the material at the lower part of said toe portion being greater than the thickness of the material at said upper part of said toe portion, rounded beading extending along all of said edges and being integral with said body, the entire surfaces of said material being imperforate and smooth above and inwardly of said beading, whereby said covering above and inwardly of said beading is free of bulges, depressions and openings which tend to collect and retain liquids, means to secure said rear edges together adjacent said bottom edges, detachable means to secure said rear edges together adjacent said upper edge, and a strap extending from one bottom edge to the other bottom edge and disposed between said toe portion and said rear edges.

2,657,478
HEEL CONSTRUCTION FOR FLIMSY FOOT COVERINGS
Walter J. Paul, Vista, Calif.
Application April 2, 1951, Serial No. 218,853
6 Claims. (Cl. 36—10)

1. A foot covering comprising a body of flimsy material and a counter, said body having an upper opening to receive the foot and being of relatively narrow vertical width to enable the same to be worn inconspicuously with a low shoe or slipper, and said counter including a pair of laterally extending lobes integrally connected to each other at their rear ends, said lobes having lower edges of upwardly extending arcuate configuration disposed on lines intersecting each



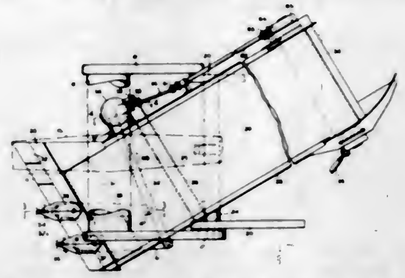
other at the rear of said lobes to form an upwardly directed notch, the upper edge of said counter being secured to the upper inside heel edge of said body, and said lower edges of said lobes terminating at a height enabling said lower edges and the internal faces of said lobes to rest on the opposite outwardly and downwardly sloping heel surfaces of the wearer's foot inserted in said foot covering.

2,657,479
DREDGE SUCTION POINT
Randolph Haigh, Princeton, British Columbia, Canada
Application March 30, 1951. Serial No. 218,499
1 Claim. (Cl. 37—57)



Apparatus of the character described comprising a stationary suction tube, a tubular perforated casing rotatably mounted on said tube, said casing being of such diameter as to provide a space between the tube and casing, a rounded head secured to the lower end of said casing in covering and spaced relation to the lower end of said suction tube having a series of perforations, cutters formed integral with the sides of said head extending longitudinally from and below the head, scraper bars attached to said suction tube disposed within the space between said tube and casing, and an arcuate scraper bar attached to the lower end of said suction tube conforming to the contour of said rounded head for scraping engagement with the inner surface of said head upon rotation of said casing.

2,657,480
DIGGING TEETH FOR LOADING MACHINE DIGGING BLADES
Raymond Q. Armington, Shaker Heights, and William F. Klun, Euclid, Ohio, assignors to The Euclid Road Machinery Co., Euclid, Ohio, a corporation of Ohio
Application October 11, 1947, Serial No. 779,344
5 Claims. (Cl. 37—110)



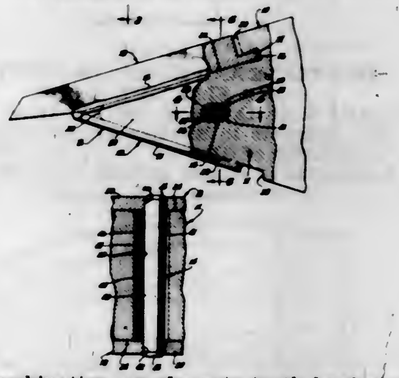
1. In combination, a digging blade adapted to be moved forwardly, said blade sloping upwardly and rearwardly from its cutting edge, a conveyor sloping upwardly and rearwardly from said blade, said blade having a generally horizontal cutting edge, there being a gap in said blade, a tooth overlying said gap and closely adjacent said blade, said tooth having a forwardly-directed earth-slitting point, a generally vertical pivot, a lever extending below said conveyor and passing through said gap and mounted on said pivot for oscillation relative to said framework, means connecting the forward end of said lever with said tooth, means for oscillating said lever connected to the rear end thereof, and a common framework upon which said blade and said conveyor and said last mentioned means and said pivot with said lever are mounted.

2,657,481
TRACTOR MOUNTED LOADING SHOVEL AND SCOOP ATTACHMENT
Russell C. Larsen, Kimberly, Idaho
Application September 6, 1946, Serial No. 695,093
3 Claims. (Cl. 37—124)



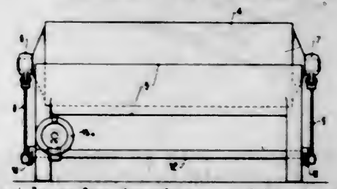
1. In a scoop attachment for a tractor, the combination which comprises a base plate having a beveled end and provided at the opposite end with a hub having pins extended from the ends thereof, vertically inclined end bars positioned at the sides of the plate and in the lower ends of which the said pins are pivotally mounted, triangular shaped end plates connecting the edges of the base plate to said end bars, an angle bar having spaced ears thereon connecting the upper ends of said end bars, another plate also having a beveled edge extended from said hub in a direction opposite to that from which the base plate extends, a door hinged to said angle bar and positioned to provide a closure between the plates of the scoop, said pins extended from the ends of the hub adapted to pivotally mount the scoop between the ends of elevating arms of a tractor with the ears of the angle bar connected to a trip bar of the tractor and with said end bars pivotally connected, at points intermediate of the ends thereof, to rods extended from the tractor.

2,657,482
REMOVABLE POINT LOCKING MECHANISM FOR DIGGING TEETH
Ernie L. Launder, Montebello, and Chester C. Hosmer, Long Beach, Calif.
Application August 21, 1946, Serial No. 691,976
9 Claims. (Cl. 37—142)



1. In combination, an elongate tooth having a transverse elongate passage extending through it, a cap over the tooth and having openings in spaced parts and registering with ends of said passage, a pin carried in the passage and extending through the tooth with its ends extending into the openings in the cap and bearing against the cap in one direction only longitudinally of the tooth, and means in the passage bearing laterally on the pin at one side only thereof holding the pin against displacement from the tooth and cap and including an elongate shoe extending through the passage from one end to the other thereof and parallel with the pin and bearing against one side only of the passage.

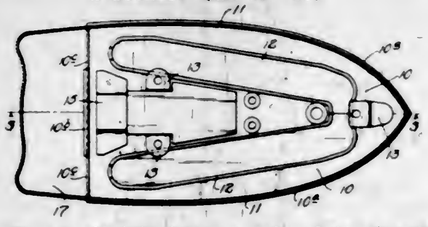
2,657,483
LAUNDRY IRONING MACHINE
Henricus C. A. Zwaard, Rijswijk, Netherlands, assignor to Machinefabriek Reineveld N. V., Delft, Netherlands, a company of the Netherlands
Application October 14, 1948, Serial No. 54,391
Claims priority, application Netherlands October 27, 1947
6 Claims. (Cl. 38—53)



1. In a laundry ironing machine including a supporting frame, a stationary ironing member and a movable ironing member movably mounted on said frame so as to be adapted to be raised and lowered and engaging said stationary ironing member in a lowered position, an operating arrangement for said movable ironing member, comprising in combination, an operating member mounted in said supporting frame movable in two opposite directions corresponding to raising and lowering of said movable ironing member,

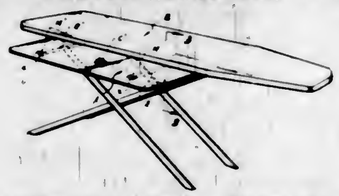
respectively; and motion-transmitting means positively connecting said operating member with said movable ironing member for raising the latter, and including resilient means resiliently connecting said operating member with said movable ironing member during lowering the latter, so that when movement of said movable ironing member is blocked by said stationary ironing member, said movable ironing member is resiliently pressed against said stationary ironing member during further movement of said operating member in a lowering direction.

2,657,484
SOLE PLATE AND HOOD CONSTRUCTION FOR ELECTRIC IRONS
Charles H. Sparklin and Philip J. More, Chicago, Ill., assignors to Birtman Electric Company, a corporation of Illinois
Application December 22, 1948, Serial No. 66,734
2 Claims. (Cl. 38—88)



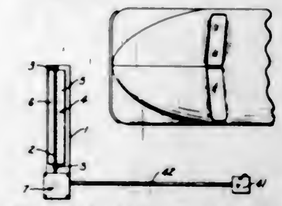
1. In an electric iron, a sole plate structure having upturned flanges along its longitudinal edges, a thin generally outwardly convex sheet metal hood having edge portions within the flanges and bearing thereagainst, said hood being dimensioned so that these edge portions, when unrestrained by the flanges, cover an area slightly greater than the area enclosed by the flanges in order that said edge portions are forced outwardly against the flanges, and a handle attaching member connected to the sole plate, the hood containing an opening adapted to receive parts of the handle structure for engagement with said attaching member.

2,657,485
IRONING BOARD EXTENSION LEAF
Elizabeth Crenshaw, Inglewood, and Charles R. L. Crenshaw, Los Angeles, Calif.
Application October 13, 1950, Serial No. 189,923
6 Claims. (Cl. 38—111)



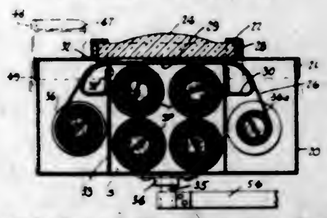
1. In combination with an ironing board: an extension leaf applicable to an edge of said board, and cooperating attaching devices borne by said leaf and said board for detachably supporting said leaf at an edge of said board and in a plane convenient for the reception of portions of articles during ironing operations, certain of said attaching devices being borne by said leaf being swingable on the leaf for retraction to inoperative positions on the leaf when the leaf is detached from the board and also extensible into transverse positions for attachment to said board, and retainers borne by said leaf adapted to engage and hold said swinging attaching devices in operative and inoperative positions on said leaf.

2,657,486
ROAD BARRIER GATE FOR PARKING LOTS
Bert M. Sweetser, Trona, Calif., assignor of one-third to Morton Frishman, Los Angeles, Calif.
Application May 16, 1949, Serial No. 93,504
9 Claims. (Cl. 39—1)



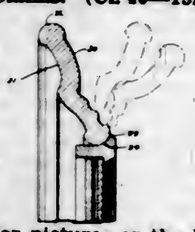
1. A parking lot control gate, involving: a tread member including an obtusely angularly related, rigidly connected barrier leaf and tilting leaf; journal means adjacent the juncture of said leaves permitting oscillation of said tread member to dispose either of said leaves in an upwardly inclined position, the width of said barrier leaf being sufficiently large to restrain a vehicle wheel engaging its upwardly inclined edge, said tilting leaf being narrower in width than said barrier leaf to permit passage of a vehicle's wheel thereover in either direction; and yieldable means tending to maintain said barrier leaf elevated to permit traffic in one direction only across said tread member.

2,657,487
ROUTE MAP VIEWER
Abraham Sprung, Brooklyn, N. Y.
Application March 16, 1949, Serial No. 81,741
2 Claims. (Cl. 40—86)



1. In a device of the class described, a container of generally rectangular form including side and end walls and a bottom, partitions extending transversely of the container and positioned inwardly of each end to define end compartments and a center compartment, said partitions having their upper marginal edges below the upper marginal edges of the side and end walls of the container, a cover for the center compartment including a flat center plate overlying the center compartment, and downwardly and inwardly convering end walls, means for removably connecting the inwardly extending portions of the walls to the outer faces of the partitions, the downwardly turned end portions of the cover being of arcuate form to provide guide surfaces, spools arranged in the end compartments for connection with the opposite ends of a display strip, said display strip having its portion between the spools overlying the flat portion of the cover and extending downwardly toward the spools in overlying contact with said arcuate guide surfaces, and a cover for the container having a top and depending flanges, said depending flanges engaging the tops of the side and end walls of the container, the medial portion of said cover being formed with an opening, a transversely slidable viewing member movable across said cover opening, and means for guiding said viewing member in its movement.

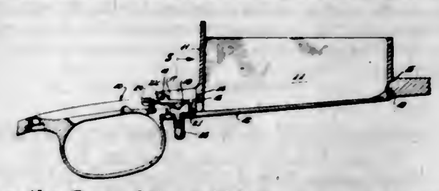
2,657,488
INVERTIBLE AND ADJUSTABLE PICTURE HOLDER
David M. Knox, New York, N. Y.
Application March 28, 1951, Serial No. 217,954
6 Claims. (Cl. 40—152)



1. A holder for pictures or the like having an outer frame engaging an inner frame: the inner frame comprising molding members which are respectively counterparts in cross section and abutting by means of a mitered joint to form the inner frame, each said molding member having a first shoulder paralleling the longitudinal axis thereof for supporting a picture and further having a second shoulder paralleling the longitudinal axis thereof for engaging a molding member of the outer frame; and the outer frame comprising molding members which are respectively counterparts in cross section and abutting by means of a mitered joint to form the outer frame, each of the molding members of the outer frame having two opposing dissimilarly configured face surfaces and two similarly configured edge portions paralleling the longitudinal axis thereof, each of said edge portions having a pair of seating surface areas for engagement of the outer frame with the inner frame, either pair being usable according to the choice of the miter cut, the configuration of each of said seating surface areas being similar to the configuration of said second shoulder so that when the inner and outer frames are assembled in accordance with the miter cut, the said surface areas of the selected pair are alternatively engageable with the second shoulder whereby the plane of the first shoulder may be projected or retracted with respect to the general plane of the holder.

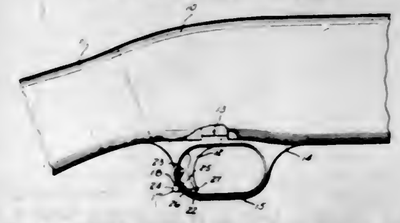
2,657,489
MAGAZINE FLOOR PLATE RELEASE MECHANISM
Leonard Franklin Robertson, Jr., Silver Spring, Md.
Application April 3, 1950, Serial No. 153,735
2 Claims. (Cl. 42—50)

2. A magazine floor plate assembly comprising a frame, a magazine fixed relative to the frame and having front and rear walls, the rear face of the rear wall having a groove therein, a removable floor plate, a boss on said floor plate having a lip thereon normally seated in the groove in the rear face of the rear wall of said magazine, means on the front edge of the floor plate and on the front wall of said magazine coacting to hold the floor plate against movement when the lip on the boss is engaged in the groove on the rear face of the rear wall of the magazine, a spring urged latch carried by the frame and biased to act upon a portion of said boss to restrain the same against movement, a lever including a portion lying within the boss and contacting the latch and a handle portion depending



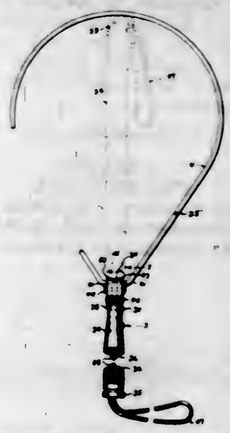
below the floor plate, said lever being fulcrumed in said floor plate and movable to overcome the bias on said latch to render said floor plate removable.

2,657,490
TRIGGER SAFETY FOR FIREARMS
Val A. Browning, Ogden, Utah
Application July 10, 1951, Serial No. 235,952
4 Claims. (Cl. 42—70)



4. In a safety device for firearms, a trigger guard having a section disposed rearwardly of the trigger and provided with an elongated slot, a leaf spring having at each end thereof a bridging member in straddling relation to the slot and slidably engaging one face of said section, and an intermediate bridging member connected to the central portion of said spring and engaging the other face of said section in straddling relation to said slot, said spring being held under stress by said bridging members for resiliently maintaining said bridging members in engagement with the respective faces of said section.

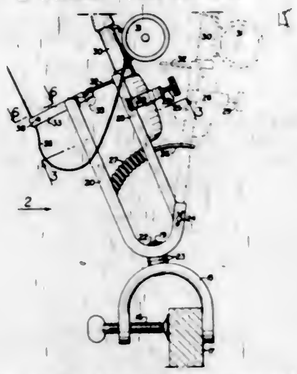
2,657,491
FOLDING FISH NET
Harvey R. Ziebell, Oshkosh, Wis.
Application January 23, 1948, Serial No. 4,035
2 Claims. (Cl. 43—12)



1. A landing net for fish comprising a handle having a forwardly projecting shank, a net carry-

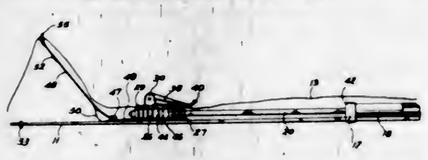
ing hoop, blocks rigidly secured to the ends of the hoop engaging the opposite sides of the shank, said blocks having rounded seats on their opposite ends, and a sliding sleeve carried by the handle adapted to releasably engage the seats when the handle and hoop are in either one of their two positions.

2,657,492
FISHING ROD MOUNT AND ACTUATOR
Elmer Stanley Skorr, Colman, S. Dak.
Application July 9, 1951, Serial No. 235,767
1 Claim. (Cl. 43—15)



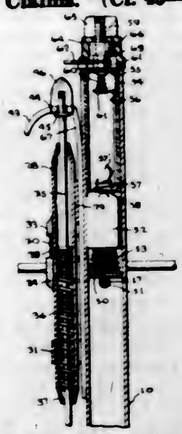
A support for a fishing rod comprising a J-shaped bracket having a long arm and a short arm and having means at the base of the bracket for securing the same to a support, the long arm of the bracket having an arcuate guide intermediate the ends thereof, a member normally substantially parallel to the long arm and pivoted to the short arm of the bracket and having an opening intermediate the ends thereof for receiving the guide therein, a spring surrounding the guide and located between the long arm of the bracket and the member and adapted to urge the member to a position out of parallelism with said long arm, said member having a loop at the opposite end thereof and a fishing rod clamp intermediate the ends thereof, and a latch pivoted intermediate its ends to a free end of the long arm of the bracket and having notches on opposite sides in the edges thereof, one of said notches adapted to engage the loop to hold the member in substantially parallel relation to the long arm, and the other of said notches adapted to receive a portion of a fishing line of a fishing rod secured in the clamp, whereby a pull on the line will cause the latch to swing and release the member to permit the spring to move it to a position out of parallelism with said long arm.

2,657,493
FISHING ROD
Robert L. Coles, Cleveland, Ohio
Application October 18, 1950, Serial No. 190,769
12 Claims. (Cl. 43—16)



12. A device of the class described comprising a rod having a tip and a handle and adapted to receive a reel carrying a line, plunger support means mounted on said rod, a plunger slidably disposed in said support means, biasing means urging said plunger to a first position toward said handle, said plunger being formed with depending means extending toward said rod, an abutment on said rod adapted to engage said depending means to hold said plunger in a second position, trigger means pivotally mounted on said rod formed with a release portion extending from the pivotal axis toward said plunger and an arm extending at an angle to said release portion, a line guide mounted on said arm, spring means on said arm adapted to hold it normally in a raised position, said line being adapted to pass through said guide, said arm being in position to be pulled down by a pull on said line to thereby cause said release portion to release said depending means from said abutment to allow said plunger to snap to said first position, and line clamping means mounted on said plunger adapted to hold said line releasably, comprising a lower jaw member mounted on said plunger and formed with upstanding ears, an upper jaw member resiliently mounted on said lower jaw and formed with an opening through which the line may pass and extend between said jaw members, and a handle device pivoted in said ears and formed with a cam part adapted to clamp said upper jaw member against said lower jaw member and a handle part adapted to engage said plunger support means to release said cam part when said plunger is snapped from said second to said first position.

2,657,494
APPARATUS FOR FISHING THROUGH ICE
Albert P. Brundage, Walden, N. Y.; Isabel D. Brundage, administratrix of said Albert P. Brundage, deceased
Application May 8, 1951, Serial No. 225,153
5 Claims. (Cl. 43—17)



1. Apparatus for fishing through ice comprising an elongated support, a clamp secured to said support intermediate the length of the latter, a bar secured to said support by said clamp and movable between a folded position in which it extends along the support and an extended position in which it extends substantially perpendicular to said support for supporting the latter in an upright position in a fishing hole in ice, a reel axle secured to said support at one end thereof, a line carrying reel journaled on said axle, a sleeve secured to said support and extending longitudinally of said support intermediate the length thereof, a rod extending slidably

through said sleeve, a spring acting between said sleeve and said rod resiliently urging said rod in a direction away from said reel, a stop member mounted on said reel axle and engageable with means carried by said rod to hold said rod in position to load said spring, a trip member mounted on said reel and engageable with said rod to release the latter from said stop for movement by said spring when said reel is subjected to a line pull, a signal device carried by said rod at the other end thereof, a signal light carried by said support at the other end of the latter, an energizing circuit operatively connected to said signal light, and means carried by said support and engageable by said signal device when said rod is released to complete the energizing circuit for said signal light.

2,657,495
FISH LURE
Louis John Eppinger, Detroit, Mich.
Application September 10, 1949, Serial No. 115,055
1 Claim. (Cl. 43—42.33)



A concavo-convex spoon for fishing comprising a central member of sheet material having on opposite sides thereof substantially smooth surfaces and deposited on the opposite surfaces thereof a coating of ornamental non-flaking material so dispersed over the surfaces that at the border thereof the coating effects representations of geometrical figures of various shapes and each figure having as one of its sides the edge of the sheet, the central portion of said surfaces having representations of solid geometric figures having substantially polygonal bases and irregular conical characteristics, there being interspersed between the border representations and the central portion solid geometric figures in some instances having shapes different from the other representations.

2,657,496
LIVE BAIT BOAT
Robert E. Lee Spotswood, Mobile, Ala., assignor of fifty per cent to Irving J. Greenwald, Mobile, Ala.
Application September 29, 1949, Serial No. 118,558
1 Claim. (Cl. 43—55)

A live bait boat comprising side walls, a rear wall, a top and a perforated bottom including an upwardly curved bow portion and having an upper imperforate end extending to said top, and a plurality of longitudinally spaced baffles on the bottom extending transversely between said side walls and spaced below the top, said baffles defining a series of relatively calm compartments for the reception of live bait and adapted to receive upwardly flowing water through the perforations, said rear wall having a screened outlet opening therein spaced above said bottom, the side walls having their lowest perforations at a level of substantially the plane of the top edge of the baffles, the rear wall being a screened frame member wherein the sides of the frame member have a vertical dimension



sufficient to enable the adjacent baffle and said side wall of the frame member to define a well at the rear of the boat, the location of the lower openings of the side wall of the frame member and the size of the frame member being effectual to cause water within the boat to be deflected upwardly by said baffles when the boat is trolled and permitting a sufficient discharge of water from locations between the baffles to reduce to a minimum creating turbulent conditions in the zones between the baffles.

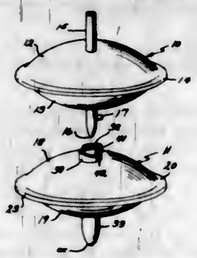
2,657,497
CASE FOR PROTECTING SNELLED FISHING HOOKS
Oren M. Beaver, Tulsa, Okla.
Application January 25, 1951, Serial No. 207,753
2 Claims. (Cl. 43—57.5)



1. A case for fish hooks, having shanks thereof provided with snells, said case including an elongated tube having a wall, forming a compartment for containing the hooks and snells and having open ends for air circulation through the compartment around the snells of said hooks, a permanent tubular magnet within said case forming a central passageway for the shanks of said hooks, means connected with the wall of the case and the permanent magnet to support said magnet in one end of the case with the central passageway coaxial with said case and for maintaining a surrounding space between the wall of the case and the magnet for freely accommodating points of said hooks, said magnet having ends forming pole faces with the pole face nearest said one end of the case providing a continuous ledge over which the hooks are engaged and retained responsive to the mag-

netic field of said magnet, said space between the magnet and the wall of the case being open throughout the length of the case to cooperate with the central passageway in providing air circulation around said hooks and the shells thereof.

2,657,498
SPRING ACTUATED TOP
Franklin H. Gustine, Chicago, Ill.
Application December 5, 1950, Serial No. 199,233
2 Claims. (Cl. 46—69)



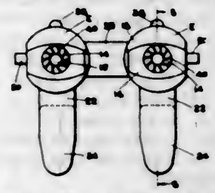
1. In an improved twin top construction, a hollow top having a concavo-convex lower and upper wall, said walls being provided with lateral flanges at their peripheral edge portions and having their concave faces in confronting relation, a septum transversely mounted between the walls and having its marginal edge portion clamped between the flanges of the upper and lower walls, one of said flanges having a vertical portion terminating in a lateral extension and encompassing the marginal edge portion of the septum and flange of the other wall, said septum having an enlarged center opening, a skirt extending at right angles from the septum and bounding the opening, said skirt being secured to the concave face of one of said walls, said walls having centrally disposed aligned openings, said opening in the septum being concentric to said openings, a spindle slidably disposed through said openings in the walls and having an axial slot, said skirt having an axial slit therein, a volute spring disposed within the confines of said skirt and having its outer end portion engaged in the slit in said skirt and its inner end portion anchored in the slot in said spindle.

2,657,499
MARIONETTE CONSTRUCTION
Hazelle H. Rollins, Kansas City, Mo.
Application January 23, 1950, Serial No. 140,022
2 Claims. (Cl. 46—126)



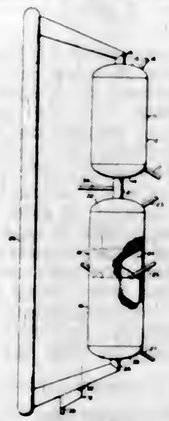
1. In a marionette having a leg, a shank extending into the lowermost end of said leg; a loop on the shank; a hollow shoe having a top wall provided with an elongated slot extending longitudinally of the shoe and receiving the shank with the loop bearing against the lowermost face of said wall; and a pair of opposed bosses depending from the top wall and bearing against the loop for holding the shoe against rotation on an axis extending longitudinally through the leg and through the heel of the shoe, said face of the wall having an arcuate bearing surface for the loop as the shoe is swung on its longitudinal axis.

2,657,500
TRANSPARENT DOLL EYE
Hans W. Samolewitz, Bayonne, N. J., assignor to Margon Corporation, Bayonne, N. J., a corporation of New Jersey
Application January 3, 1951, Serial No. 204,150
20 Claims. (Cl. 46—169)



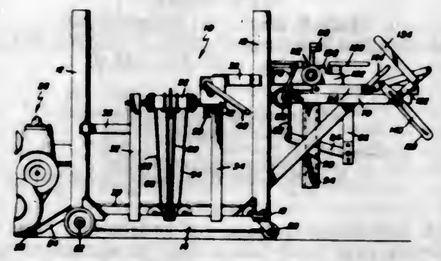
20. A finished doll eye intended for use in a doll head, said eye including pupil and iris portions made out of a single body of transparent material and both intended to cooperate with a black background, said pupil portion having a smooth substantially flat relatively non-reflective back surface which appears black with the aid of said black background, and said iris portion having a roughened or serrated back surface which reflects light of a color similar to the color of the transparent material despite the black background, whereby the contrast between the iris portion and the pupil portion results solely from the reflective nature of the iris portion and the non-reflective nature of the pupil portion with both pupil and iris portions exposed to the black background.

2,657,501
METHOD FOR GASIFYING COAL
Bertrand J. Mayland, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 12, 1949, Serial No. 115,210
3 Claims. (Cl. 48—202)



1. A method for gasifying coal which comprises in combination the steps of gravitating pebbles through a pebble heating zone as a contiguous mass; heating said pebbles in said heating zone to a temperature above the desired pebble inlet temperature to a gas treating zone; gravitating said hot pebbles through said gas treating zone as a contiguous mass; gravitating said hot pebbles from said gas treating zone through a substantially void coking zone as a restricted free-falling stream; introducing powdered coal into said coking zone in gaseous suspension; subjecting said powdered coal to radiant heat from said free-falling pebbles in said coking zone, whereby said coal is converted to coke; gravitating said pebbles and said coke particles from said coking zone through a gasification zone as a collected mass; passing steam into the lower portion of said gasification zone and upwardly therethrough in direct heat exchange with the gravitating mass of hot pebbles and coke; reacting said steam with said coke; passing resulting product gases from said gasification zone through said coking zone and said gas treating zone; subjecting said product gases to high temperatures in direct heat exchange with said hot pebbles in said gas treating zone, whereby a large portion of any organic sulphur in said product gases is converted to hydrogen sulfide; removing said heat-treated product gases from said gas treating zone; removing said pebbles from the lower end of said gasification zone; and elevating said pebbles to the upper end of said heating zone.

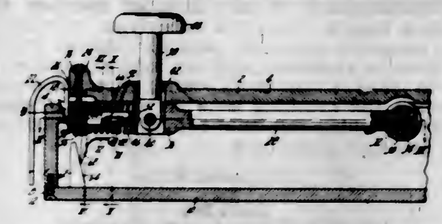
2,657,502
APPARATUS FOR RAISING AND SUPPORTING A LAWN MOWER AND INCLUDING BLADE SHARPENING MEANS
Carroll W. Bruffey, Charlottesville, Va.
Application April 28, 1950, Serial No. 158,764
8 Claims. (Cl. 51—34)



1. A device for sharpening a lawn mower, said device comprising a wheeled supporting frame, a first vertically movable horizontal platform carried by the frame, means mounted on the frame and connected to the platform for selectively raising and lowering the platform, a second vertically movable horizontally disposed platform slidably supported by the frame at one side of the first platform, means operatively connected to the second platform for selectively raising and lowering the second platform, means mounted on the frame for engaging and supporting a lawn mower moved onto the second platform from the first platform, a carriage slidably carried by the frame and movable toward and away from the second platform and toward and away from a lawn mower supported on the second platform, and a grinding wheel supporting plate slidably supported on the carriage and movable in a horizontal path perpendicular to the sliding path of the carriage.

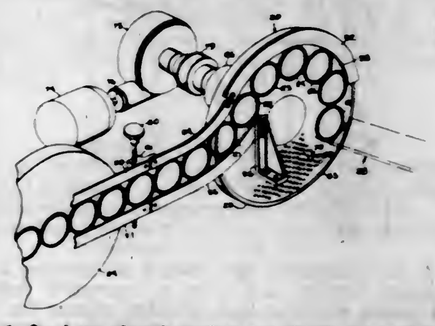
2,657,503
FISHHOOK SHARPENER
Lloyd L. Gaines, Lawrence, Kans.
Application September 19, 1949, Serial No. 116,462
13 Claims. (Cl. 51—57)

1. A fishhook sharpener comprising a hollow body member having an aperture therein for receiving the tip portion of a fishhook, said body member being formed to prevent lateral movement of said fishhook, an arm pivoted at one end in said body member about an axis transverse to the axis of the point of said fishhook, an abrasive block carried at the opposite end of said arm for movement longitudinally to said arm, resilient means urging said abrasive block out-



wardly to contact the tip portion of said fishhook laterally, and means for pivotally reciprocating said arm.

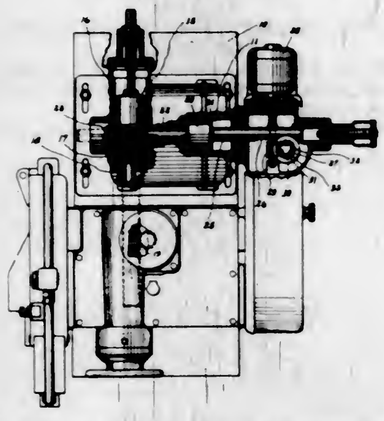
2,657,504
FEED MECHANISM FOR GRINDING MACHINES
Harold O. Cadman, Rockton, Ill., assignor, by mesne assignments, to Gardner Machine Company, a corporation of Illinois
Application November 9, 1949, Serial No. 126,377
15 Claims. (Cl. 51—112)



1. A feed mechanism for a grinding machine having grinding wheels defining a grinding zone and a pair of spaced apart guide bars extending through the grinding zone in straddling relation with the central portion thereof, said feed mechanism comprising, in combination, a rotatable magnetic chuck of disc shape forming a flat face thereon, an elongated trough-shaped magazine adapted to hold a stack of workpieces and to present the same individually to the face of said chuck, said trough being mounted with the elongated axis thereof disposed at a substantial angle to the plane of said chuck face, said trough having a gate end thereon disposed in opposing relation to said chuck face at a position radially within the peripheral edge thereof, a fixed backing rail overlying a portion of the peripheral surface of said chuck and adapted to constrain the workpieces on the latter's face to move bodily therewith in a concentric path, the inner peripheral surface of said backing rail being substantially tangent to one face of said trough-shaped magazine, a backing rail extension located between said backing rail and one of said guide bars, opposite ends of said extension being substantially alined with adjacent ends of said backing rail and said one guide bar, said backing rail extension having a reverse curve therein leading away from the axis of said chuck, a stripper bar disposed in spaced relation from said extension and having a similar curvature therein to effect alignment of one end of said stripper bar with the other of said guide bars, magnetic means disposed contiguous to said chuck

face and emitting magnetic flux outwardly thereof in a substantially continuous arcuate band reaching across said trough gate and extending circumferentially to said stripper member, and driving means connected in driving relation to said magnetic chuck for causing rotation thereof to effect a yieldable push on said workpieces so as to feed them in a continuous procession through the grinding zone via the path defined by said backing rail, said extension, said stripper bar and said guide bars.

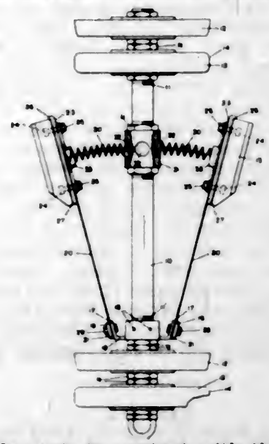
2,657,505
FEED CONTROL MECHANISM
Ralph E. Price, Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa.
Application June 12, 1951, Serial No. 231,228
7 Claims. (Cl. 51—165)



4. In a machine tool, means for moving a tool support toward and from an operative position including a piston and cylinder, means for controlling the rate of movement of said piston including a motor which runs continuously in one direction and means connecting said motor and said piston including a clutch mechanism for preventing said piston from moving at a rate faster than that determined by said motor.

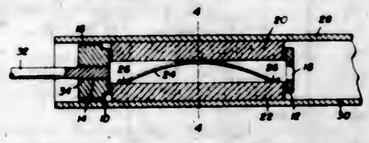
2,657,506
PIPELINE CLEANING AND POLISHING DEVICE
Raymond F. Hadley, Drexel Hill, James G. Daugherty, Norwood, and Frank A. Young, Phoenixville, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application January 15, 1952, Serial No. 266,502
2 Claims. (Cl. 51—184.2)

1. A device for cleaning and polishing the inner surfaces of extended lengths of pipeline which comprises a shaft, a plurality of leaf springs, each of said leaf springs having one end secured about one end portion of the shaft and extending longitudinally thereof to have a free end positioned about the other end portion of the shaft, a plurality of scraping elements each having an arcuate outer surface, one of said scraping elements being removably secured to the free end of each leaf spring, pressure discs secured to each end portion of the shaft beyond the ends of the leaf springs, said pressure discs being adapted to cooperate in centering the device within and propel the device through the pipeline under the pressure of fluid in the pipeline and said leaf spring being of sufficient strength to maintain the outer periphery of the



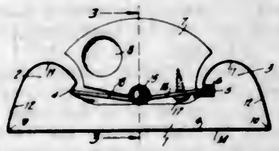
scraping elements in contact with the inner wall of the pipeline.

2,657,507
GUN HONE
Clark E. Seymour, Palestine, Ill.
Application February 25, 1952, Serial No. 273,205
1 Claim. (Cl. 51—184.2)



A self-aligning hone for refinishing shot gun barrels, said hone comprising an elongated operating rod, an elongated holder carried by said operating rod, a longitudinally extending elongated rectangular opening of constant cross section extending transversely through said holder, a pair of generally rectangular constant cross sectional bonded abrasive elements freely mounted within said opening, a single longitudinally curved leaf spring disposed entirely within said opening between said abrasive elements, said spring resiliently resisting movement of said abrasive elements within said opening towards each other, said abrasive elements and said spring being free to move as a unit within and out of said opening whereby said abrasive elements may remain in even contact with a gun barrel, said abrasive elements and said spring being movable to a position at an angle to the longitudinal axis of said holder.

2,657,508
SANDING DEVICE
John H. Schubert, Troy, N. Y.
Application July 11, 1952, Serial No. 298,231
7 Claims. (Cl. 51—187)



1. In a sanding device, the combination with an elongated base element having a plane bottom rigid throughout and spaced, upstanding end portions provided with opposed, transversely-extending, re-entrant portions therein; of means for securing thereto a strip of sandpaper extending around said base element and having its end portions disposed in front of said re-entrant portion; said means comprising a top element having a single toggle joint secured to the bottom thereof with its ends disposed in said re-entrant portions; the knee of said joint being movable by downward pressure applied to said top element from a zone above the general level of said re-entrant portions to a zone below said level to force the end portions of said strip into and secure them in said re-entrant portions of said base.

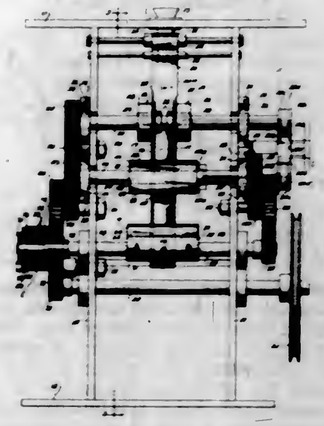
2,657,509
DETACHING MEANS FOR ABRASIVE DISKS
Arthur Turton and Henry Elbert Hickman, Los Angeles, Calif.
Application April 2, 1951, Serial No. 218,819
2 Claims. (Cl. 51—197)



1. The combination in a portable electric motor having a sanding disc support head secured to the shaft of the motor for rotation therewith, of means to detachably secure a plurality of sanding discs on said support head, said means comprising an arbor for each of the sanding discs on the support head, said arbors being formed with threads thereon and therein for threaded connection with one another and with a screw threaded motor shaft extending at least partially through said support head, said arbors being formed with flanges whereby upon nesting thereof within one another including said support head said flanges and said support head constitute pressure surfaces adapted to secure said sanding discs therebetween.

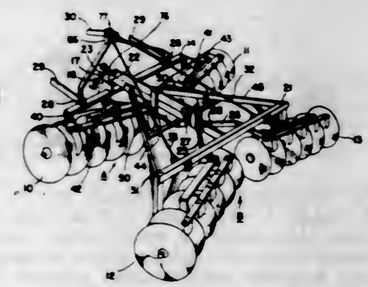
2,657,510
APPARATUS FOR PACKAGING COMMODITIES
Harold P. Lewis, Newtown, Pa., assignor, by mesne assignments, to James Irvine, Snug Valley, Wayne, Pa.
Application October 14, 1949, Serial No. 121,297
8 Claims. (Cl. 53—43)

1. Apparatus for packaging commodities in continuously moving packaging material comprising: a feed tube for the commodities; means for guiding opposed layers of the packaging material to opposite sides of said feed tube; continuously rotating longitudinal seal forming rollers mounted on shafts on opposite sides of said tube having opposed flanges to press marginal portions of the packaging material into contact therebetween to form a longitudinally sealed tube and providing at least in part means to continuously move the material through the apparatus; a transverse seal forming member comprising a pair of oppositely disposed intermittently rotating rolls mounted on shafts beyond the end of said feed tube and having axially extending opposed sealing surfaces adapted to press transverse portions of the packaging material into contact therebetween; an intermittently operating knife member mounted on a rotatable shaft beyond the end of the transverse seal forming member, the knife being circumferentially adjustable with respect to the shaft on which it is mounted; means for driving the shafts on which the transverse sealing members and the knife are mounted intermittently



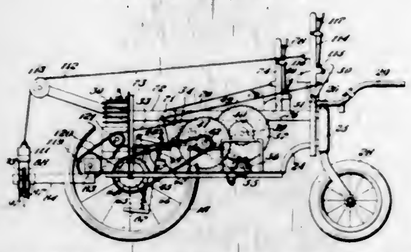
in synchronism and means responsive to indications on the packaging material to control the intermittent rotation of said shafts independently of the operation of the longitudinal seal forming rollers.

2,657,511
FLEXIBLE DISK HARROW
John F. Rude and Alvan V. Burch, Evansville, Ind., assignors to Burch Plow Works, Inc., Evansville, Ind., a corporation of Indiana
Application February 11, 1950, Serial No. 143,775
3 Claims. (Cl. 55—81.1)



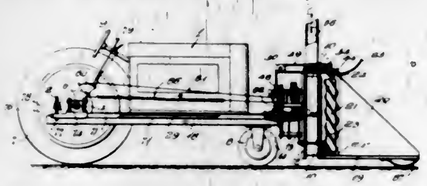
1. In a tandem harrow, a pair of forward disc gangs operably connected with a forward draft frame and moveable relative thereto, a pair of rear disc gangs operably connected with a substantially triangularly arranged rear draft frame, said rear draft frame including pivot means at an apex of the frame pivotally connecting the same to said forward draft frame for complete freedom of horizontal movement of said rear draft frame and the disc gangs connected therewith about the forward disc gangs and the draft frame operably connected therewith independently thereof, and stop means on said forward disc gangs positioned adjacent opposite sides of said rear draft frame moveable with said forward disc gangs relative to said rear draft frame and engageable thereby to reducingly limit pivotal rotation of said rear draft frame and the gangs connected therewith about the forward disc gangs upon increasing angling thereof.

2,657,512
CRANBERRY VINE TRIMMER
Frank P. Crandon and Herbert C. Leonard, Acushnet, Mass.
Application May 18, 1950, Serial No. 162,734
4 Claims. (Cl. 56—8)



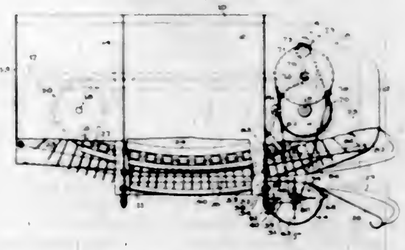
1. Apparatus for trimming cranberry vines comprising in combination a support designed to be propelled over the cranberry bog, vine-cutting means mounted on the support, a motor, means operably connecting the motor to the vine-cutting means for effecting actuation of the same, means associated with the cutting means for holding the vines in the field of operation of the cutting means, a plurality of rods mounted on the support forwardly of the cutting means for engagement with the vines prior to contact of the cutter therewith and means for imparting continuous movement to the rods to cause them to traverse the frame successively for combing the vines laterally to lay them crosswise of the cutting means.

2,657,513
CORN HARVESTER AND ENSILAGE CUTTER
Phares Martin, East Earl, Pa.
Application July 28, 1948, Serial No. 41,118
2 Claims. (Cl. 56—16)



1. For mounting on a vehicle having power takeoff means, a harvesting and ensilage cutting apparatus comprising in combination stalk cutting means disposed slightly above ground level, vertically disposed substantially parallel feeding rolls mounted in advance of said cutting means, spirally arranged intermeshing ribs on said rolls, a forwardly extending deflector plate disposed above and in advance of said rolls, a substantially cylindrical casing having front and rear walls disposed rearwardly of said cutting means with the axis of said casing substantially at right angles to the axes of said rolls, a centrifugal impeller mounted for rotation within said casing, a diametrically disposed knife blade carried by said impeller within said casing in close proximity to the front wall of said casing, the length of said knife being slightly less than the internal diameter of said casing, said knife being provided with oppositely directed cutting edges on each side of the rotational axis thereof, said casing being provided with a vertically disposed relatively narrow inlet slot in the front wall thereof, said casing being provided with a discharge opening and drive means for connecting said power take-off and said impeller, said cutting means and said rolls to drive the same whereby upon forward movement of said apparatus the upper portion of a growing stalk will first be engaged by said deflector plate to bend said stalk forwardly away from said rolls the lower portion of said stalk passing between the intermeshing ribs on said rolls adjacent the lower ends thereof, said stalk being severed below said rolls by said cuting means, rotation of said rolls serving to move the lower end of said stalk upwardly and rearwardly through said inlet slot and into the path of movement of said knife at an angle to the plane thereof to cut said stalk into relatively small pieces, said pieces being discharged from said casing through said discharge opening by the action of said impeller, continued rotation of said rolls serving to move said stalk upwardly and rearwardly in said inlet slot to utilize substantially the entire length of said knife.

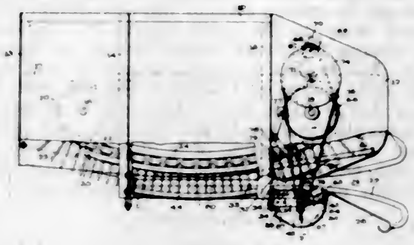
2,657,514
COTTON PICKER WITH FLUFFER
John D. Rust, Pine Bluff, Ark.
Application April 4, 1951, Serial No. 219,145
20 Claims. (Cl. 56—42)



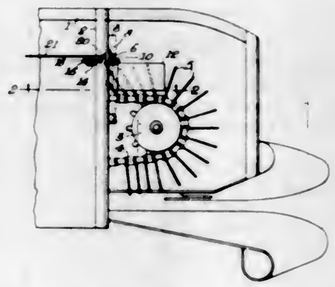
1. A cotton picking unit including a plant passageway for the passage of cotton plants, picking spindles mounted on an endless conveyor for engaging the cotton plants in said passageway, means carried by said unit for driving said conveyor, in combination with a rotatable fluffing device adapted for use in said unit and arranged to be detachably mounted in said unit near the entrance of said passageway, said device including a rotatable member, a plurality of flexible members secured to said rotatable member and constituting flaps, said flaps being adapted to project into said passageway for engaging the cotton plants to fluff the cotton simultaneously with the engagement of the cotton by said spindles and driving mechanism connecting said rotatable member with said driving means.

2,657,515
ROTARY COTTON FLUFFER
John D. Rust, Pine Bluff, Ark.
Application February 27, 1952, Serial No. 273,584
6 Claims. (Cl. 56—42)

1. A cotton picking unit having a front and a rear end with a plurality of picking spindles intermediate said ends for engaging cotton plants, in combination with a rotatable fluffing device adapted for use in said unit and arranged to be detachably mounted in said unit, said fluffing device including a rotatable member, a plurality of flexible members secured to and projecting from said rotatable member, a plurality of spaced guide fingers mounted on said unit adjacent said rotatable member and arranged to project therefrom towards the front end of said unit, the free ends of said guide fingers being curved and arranged to extend partially around said rotatable member in spaced relation therefrom, said flexible members in their path of rotation moving between adjacent guide fingers and engaging the cotton plants to fluff the cotton.



2,657,516
COTTON PICKING SPINDLE ROUGHENING MEANS
John D. Rust, Pine Bluff, Ark.
Application April 25, 1950, Serial No. 158,038
9 Claims. (Cl. 56—42)



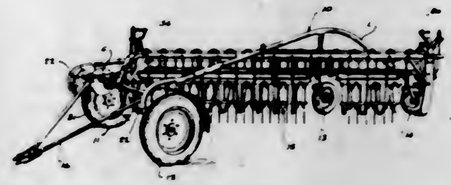
1. In a cotton picking unit having horizontal rows of traveling picking spindles: a spindle roughening device which includes a supporting post, a series of bolts secured to said post, a sleeve loosely mounted on each bolt, an abrasive carrying plate secured to said sleeve, the abrasive of said abrasive carrying plate, when in operating position, being actuated by gravity and positioned to strike one spindle at a time as the spindles pass the roughening device.

2,657,517
CLUTCH FOR LAWN MOWERS AND TRIMMERS
George D. Berdan, Fort Worth, Tex.
Application December 16, 1950, Serial No. 201,121
3 Claims. (Cl. 56—295)



1. In a lawn mower or the like having a drive shaft, a flat cutting blade mounted for relatively free rotation on said shaft, arms pivotally mounted on said blade on opposite sides of said shaft and having the pivot locations thereof relatively near said shaft, jaws in the inner ends of said arms shaped to engage the surface of said shaft, and means automatically moving said jaws inwardly to reengage said shaft after said jaws have been removed from said shaft.

2,657,518
SIDE DELIVERY RAKE
George B. Hill, New Holland, and Donald L. King, Leola, Pa., assignors to New Holland Machine Division of The Sperry Corporation, New Holland, Pa., a corporation of Delaware
Application September 30, 1950, Serial No. 187,702
4 Claims. (Cl. 56—377)



1. A substantially rigid tubular frame for supporting the rotating reel of a side delivery rake, the reel being mounted obliquely across the frame with respect to the normal direction of movement of the rake, a hitch for trailing the rake behind a tractor, said frame comprising a relatively high arch member integral with the front end and disposed crosswise of the frame, said arch including downwardly projecting side leg elements, tubular elements of said frame being bent back partially upon themselves in a substantially vertical plane to define said legs, side plates mounted integrally over said bent tubular sections to complete said leg structures, stub axles fixed to the side plates at the lower ends of each of said leg elements, front support wheels for said frame carried on said stub axles, and castering wheel means for supporting the rear of the frame.

2,657,519
ROTARY WHEEL SIDE DELIVERY RAKE
George B. Hill, New Holland, Pa., assignor to The New Holland Machine Division of the Sperry Corporation, New Holland, Pa., a corporation of Delaware
Application December 1, 1950, Serial No. 198,515
7 Claims. (Cl. 56—377)

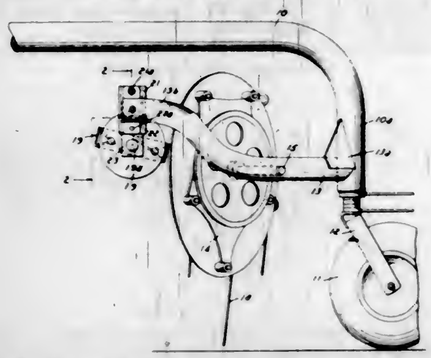


1. A side delivery rake comprising a frame and means supporting same for ground traversing movement, a plurality of raking wheels disposed in echelon formation for rotation in substantially vertical planes, vertically movable suspension means supporting said respective wheels from said frame for relatively independent vertical movement, and lifting mechanism carried by said frame for simultaneously vertically adjusting said suspension means and raking wheels, including a rigid movable element, and resilient means connecting said element to each of said suspension means to provide a floating suspension for the respective raking wheels.

2,657,520
ROTARY STRIPPER FOR SIDE DELIVERY RAKES

Douglas S. Lock and Frederick D. Wilson, Birmingham, Mich., assignors to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware

Application January 11, 1952, Serial No. 265,986
7 Claims. (Cl. 56—377)

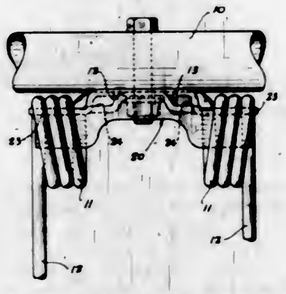


1. In a side delivery rake having a horizontal rotatable crop raking drum with its axis angularly disposed relative to its line of travel for side discharge of the mowed crop into a windrow, the improvement comprising a rotary crop stripper, means for rotatably mounting one end of said crop stripper on the rake adjacent the forward end of the rotary path of the raking drum and in substantially the same horizontal plane as the axis of such drum, said other end of said crop stripper extending substantially beyond the discharge end of the raking drum, an arm secured to said rake frame, and a bracket on said arm for rotatably mounting said other end of said crop stripper in an adjustable relation with respect to the axis of the discharge end of the raking drum.

2,657,521
SIDE DELIVERY RAKE SPRING TOOTH

Melvin J. Happe, New Holland, Pa., assignor to The New Holland Machine Division of the Sperry Corporation, New Holland, Pa., a corporation of Delaware

Application July 3, 1950, Serial No. 171,861
4 Claims. (Cl. 56—400)

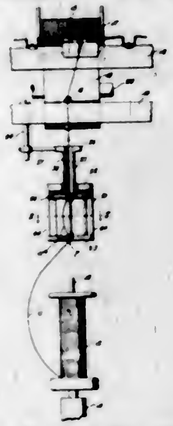


1. A plurality of rake tooth means and means for mounting them under the raking bar of a side delivery rake or the like, comprising a plurality of tooth means formed of spring steel with each tooth having a coil section, a raking finger extending downwardly from and at right angles to the longitudinal axis of each one of said coil sections, the other end of each one of said coil sections terminating in a stub end, extending parallel to the axis of the coil section, and a plurality of rigid support means carried under the raking bar to engage each of the coil sections and the stub ends of the tooth means to hold said tooth means relatively fixed thereto, each one of said rigid means including a pair of wing elements to fit within and support the coil sections of said pair of tooth means and said rigid means also having an elongated slot formed in its upper surface, said slot being of a size to tightly fit said stub end and hold it pressed against said raking bar to perform said holding action.

2,657,522
ABRADING YARN

Ernest J. Griset, Jr., Asheville, N. C., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware

Application March 11, 1952, Serial No. 275,977
12 Claims. (Cl. 57—2)



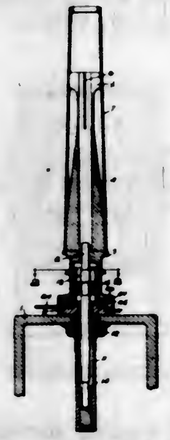
1. In apparatus for abrading thread that includes a source of thread and a mechanism to draw the thread upwardly from the source under ballooning conditions, the improvement that comprises at least one abrading annulus in the thread path between said source and the drawing mechanism, bearing means having a thread path therethrough above and aligned with the aperture of the abrading annulus, thread driven cage means mounted to rotate on said bearing in response to the thrust of the ballooning thread, said brading annulus being fixed to one of said means.

2,657,523
SPINDLE BRAKE

John A. Kooistra, North Andover, Mass., assignor to Davis & Furber Machine Company, North Andover, Mass., a corporation of Massachusetts

Application January 3, 1952, Serial No. 264,800
4 Claims. (Cl. 57—88)

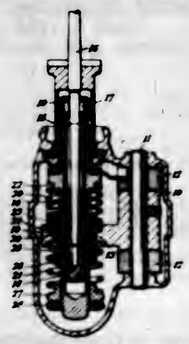
2. In a spinning frame or the like, a spindle assembly comprising a spindle blade and a whorl and a yarn receiver support both secured to the spindle blade, a fixedly mounted base for the spindle blade extending within and concentrically of the whorl, a lifter brake vertically moveable and non-rotatable with respect to the base mounted concentrically of the spindle blade beneath and normally out of engagement with the whorl, and a brake actuator mounted upon the base concentrically of the spindle blade beneath the lifter brake, cooperating cam elements upon the actuator and the lifter brake acting when the actuator is given a partial rotation to raise the lifter brake into engagement with the whorl and hold the spindle assembly against rotation.



2,657,524
SPINDLE MOUNTING FOR TEXTILE SPINNING OR LIKE MACHINES

Arthur Westall, Accrington, England, assignor to T. M. M. (Research) Limited, Rossendale, England

Application June 21, 1951, Serial No. 232,817
Claims priority, application Great Britain May 25, 1950
4 Claims. (Cl. 57—135)

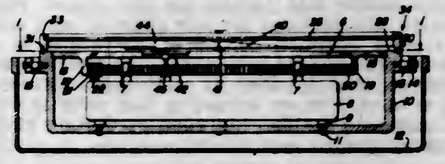


1. A spindle mounting comprising, in combination, a carrier having an opening therein, a spindle supporting bolster disposed to extend substantially vertically through said opening and out of contact with said carrier, and means for resiliently supporting the bolster from the carrier comprising an abutment adjustably secured on a downwardly protruding portion of the bolster, a first spring compressed between the underside of the carrier and said abutment, a fixed abutment on the upper part of the bolster above the carrier, a collar surrounding the bolster and movable longitudinally thereof, a resilient angular packing supported in the carrier and having an upper face exposed to the collar, a second adjustable abutment on the bolster, and a second compressed spring opposed to the first and bearing at its upper end against the fixed abutment on the bolster and at its lower end upon said collar, the collar being disposed to bear both upon the annular packing and upon the second adjustable abutment on the bolster.

2,657,525
UNIVERSAL TIME CLOCK AND HOUR ANGLE INDICATOR

Cecil H. Allen, Colon, Panama

Application January 24, 1951, Serial No. 207,624
2 Claims. (Cl. 58—3)

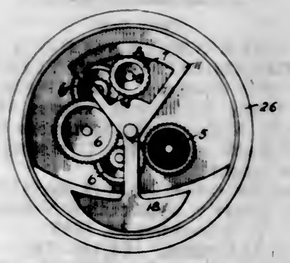


1. A device for indicating the relation between time, the movement of the earth and the celestial bodies, comprising a stationary casing, a planar circular polar terrestrial map fixedly mounted in the central portion of the device and covering said central portion, provided with a meridian network, the pole of the network being located in the center of the device, and with a graduation for said meridian network at the periphery of the circular map, a clock mechanism with a main shaft, an annular rotatable disk, surrounding said polar map and arranged in the same plane with the said polar map, said rotatable disk being provided with an hour graduation, corresponding to and adapted to cooperate with the meridian network of the polar map, said disk being rotatable around an axis passing through the pole of the terrestrial polar map, and being driven by said clock mechanism to perform one revolution within twenty-four hours, a minute dial placed on the terrestrial map, a pointer traveling over said dial, a pointer shaft, connected with said pointer, means for driving said pointer shaft from the main shaft, and a movable and removable circular cap, to be placed on the stationary casing over the terrestrial map and annular disk surrounding said map, said cap having a transparent cover sheet, parallel to the plane of the terrestrial map and covering the entire area of the terrestrial map, the graduations and indications visible on the terrestrial map and the minute dial being visible through the transparent sheet, the transparent sheet further being engraved with and showing a celestial map, adapted to be brought into correlation with the terrestrial map for an observer looking down in a direction perpendicular to the plane of the map, thus directly superposing the indications engraved on the transparent sheet on those to be seen through the transparent sheet on the terrestrial map.

2,657,526
SELF-WINDING AUTO CLOCK

Antoine Ganda, Providence, R. I.

Application July 26, 1950, Serial No. 175,955
3 Claims. (Cl. 58—46)



1. A self-winding clock for automobiles and the like comprising a casing, a mainspring for

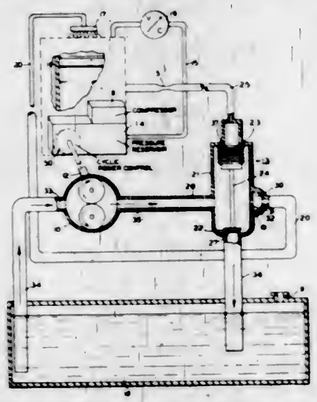
the time mechanism in said casing, a ratchet wheel, a train of gears connecting said ratchet wheel with said mainspring, a member pivotally mounted at approximately its center at the center of said casing, a weight at one end of said member, the other end of said member being of sector shape and having an arc shaped recess therein, the opposed arcuate edges of said recess having a common center of curvature in the pivot point of said pendulum and pivoted pawls fixed to said member at said opposed arcuate edges of said recess actuating said ratchet wheel to wind said mainspring upon oscillation of said member due to said weight.

2,657,527

HOT-GAS ENGINE FUEL CONTROL

Hendrik L. Muller, Eindhoven, Netherlands, and Wicher K. Bouwman, Harmon-on-Hudson, N. Y., assignors to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y.

Application December 30, 1949, Serial No. 135,886
12 Claims. (Cl. 60—24)



1. In a hot-gas engine, a self-regulating fuel delivery system comprising a fuel source, a burner system having the burner thereof located in heat exchange relationship with said engine, means operatively associated with said engine for causing fluid pressure variations, a pumping system connecting said source to said burner, and means responsive to said fluid pressure variations for varying the effective delivery of said pumping system to said burner.

4. In a hot-gas engine, a self-regulating fuel delivery system comprising a fuel source, a burner system, a pumping system for forcing fuel from said fuel source to said burner system, said pumping system including a valve controlled by-pass return means leading back to said fuel source, and means subjected to a pressure generated by said engine for actuating said valve.

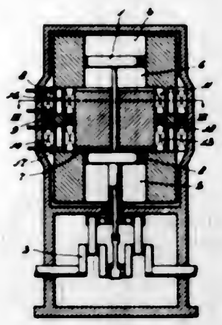
2,657,528

HOT GAS ENGINE ENCLOSING TWO THERMODYNAMIC CYCLES

Cornelius Otto Jonkers, Jacob Willem Laurens Köhler, Herre Rinia, and August Albert Liebe, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 29, 1949, Serial No. 130,656
Claims priority, application Netherlands December 24, 1948
11 Claims. (Cl. 60—24)

1. A hot-gas engine in which two closed thermodynamic cycles are performed comprising a casing formed with two openings therein, a working medium for each cycle, a member in each of said openings acting on the working medium of both cycles and forming working spaces on each



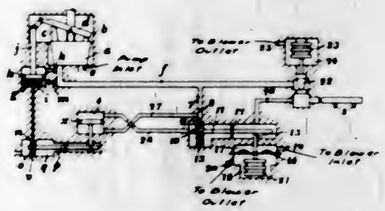
side thereof, said working medium in the working spaces on each side of said member being substantially the same temperature, and ducts bounded by fixed walls connecting the working spaces of each cycle.

2,657,529

MEANS FOR CONTROLLING THE SUPPLY OF LIQUID FUEL TO COMBUSTION PRIME MOVERS

Owen Napier Lawrence, Dorridge, England, assignor to Joseph Lucas Limited, Birmingham, England

Application May 17, 1950, Serial No. 162,564
Claims priority, application Great Britain June 7, 1949
5 Claims. (Cl. 60—39.28)



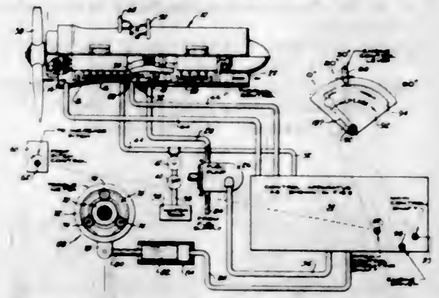
1. For use in controlling the supply of fuel from a pump to a prime mover which receives air from a blower, a controlling means comprising, in combination, a fluid pressure operable device for regulating the rate at which fuel is supplied to the prime mover, a first valve controlling said device, a second device operable by fuel pressure delivered by the pump for actuating the said valve to reduce the fuel supply as the pump pressure rises, a first means responsive to the pressure of air from the blower for varying the effect of the second device on the first valve to increase the fuel supply when the blower pressure increases and vice versa, a second valve for varying the action of the fuel pressure from the pump on the second device, and a second means responsive to the blower inlet and outlet air pressures for actuating the second valve to reduce the fuel pressure acting on the second device and thereby increase the supply of fuel when the ratio of blower outlet and inlet pressure exceeds a predetermined ratio, and vice versa.

2,657,530

CONTROL APPARATUS FOR TURBOJET ENGINES

Leighton Lee II, Rocky Hill, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey

Application November 21, 1947, Serial No. 787,416
11 Claims. (Cl. 60—39.28)



1. Control apparatus for an internal combustion engine and a variable torque load driven thereby, comprising means for varying the torque of said load, manually operable means for varying the action of said torque varying means, means for supplying a combustion modifying liquid to said engine, and means operable coactionally with said liquid supply means for modifying the relationship between said manually operable means and said torque varying means.

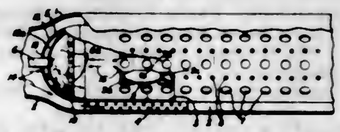
11. Control apparatus for a power plant including an internal combustion engine having a fuel supply thereto, a variable torque load driven thereby, and a compressor for supplying combustion air thereto, said control apparatus comprising: means subject to the pressure at the compressor inlet and the pressure at the compressor outlet and responsive to the differential of said pressures; means including said pressures differential responsive means for varying the torque load; and means operated by said pressure differential responsive means for varying the supply of fuel to said engine.

2,657,531

WALL COOLING ARRANGEMENT FOR COMBUSTION DEVICES

Lowell J. Pierce, Saugus, Mass., assignor to General Electric Company, a corporation of New York

Application January 22, 1948, Serial No. 3,760
11 Claims. (Cl. 60—39.66)



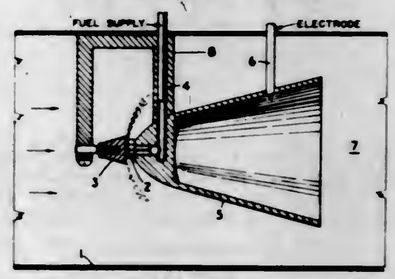
7. In a thermal reaction chamber having an inner liner defining a reaction space and subject to contact with hot reaction products, means for forming a protective envelope of cooling and insulating fluid on the inner surface of the liner including a liner wall portion defining a first opening, a deflector member having a second opening and secured in spaced substantially parallel relation to the liner wall with said openings in substantially co-axial relation, the second opening being of substantially smaller cross sectional area than the first, means for supplying a comparatively cool fluid to the first opening whereby a substantial portion of the fluid flows through the first and second openings to form a discrete jet of reactant fluid and the rest of the fluid flows through the second opening only and is deflected laterally to form a thin protective envelope of flowing fluid over adjacent wall surfaces subject to contact with hot reaction products.

2,657,532

LIQUID FUEL ATOMIZER LOCATED UPSTREAM OF A FLAME STABILIZING BAFFLE

John Reid, Elstead, and Allan G. Earl, Camberley, England, assignors to Power Jets (Research and Development) Limited, London, England, a British company

Application August 23, 1949, Serial No. 111,914
Claim priority, application Great Britain September 2, 1948
7 Claims. (Cl. 60—39.72)



1. Combustion apparatus for burning liquid fuel in a fast-moving gas stream including a duct for carrying said stream, a fuel atomizing system in the duct, said system comprising at least one liquid fuel injector directed along the duct and means to provide a resisting medium facing and close to said injector so that fuel issuing from the injector is caused to spread out across and mix with the stream, flame stabilizing baffle means in the duct adjacent to, downstream of and aligned with the atomizing system, said baffle means defining a stabilized combustion zone, and an igniter within said zone.

2,657,533

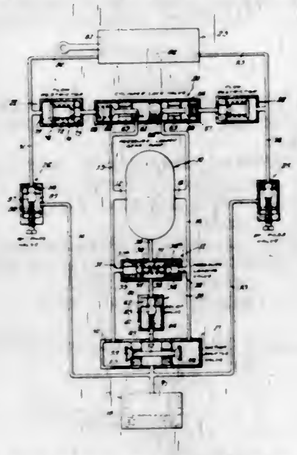
HYDRAULIC CONTROL SYSTEM

Ernest H. Schanzlin, Cleveland, Ohio, and Charles J. Oster, Detroit, Mich., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application March 26, 1951, Serial No. 217,548
3 Claims. (Cl. 60—52)

1. In a hydraulic power control system, a source of fluid, a pressure loaded type, intermeshing gear pump having at least one set of axially movable, pressure loadable bushings adapted to be moved into sealing engagement with the associated gear side faces in response to generation of pressure by said pump, pressure loading valve means associated with said pump for preventing escape of pressure loading fluid generated by said pump to said fluid source and for applying loading pressure to said movable bushings, a suction shuttle valve for rendering said pressure loading valve means effective and for preventing return of fluid to said fluid source upon operation of said pump in either direction, a hydraulic piston adapted to be shifted in one of two directions in accordance with the direction of operation of said pump, cylinder locking valve means for preventing movement of said piston when said pump is not operating, flow

restrictor valve means associated with said cylinder locking valve and including movable members responsive to excess flow for further restricting the flow for controlling the rate of return



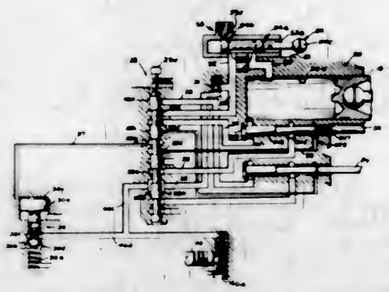
flow from said piston, and relief valve means associated with said pressure loading valve means for controlling the maximum pressure applied to said piston when said pump is operating.

2,657,534

TRACTOR HYDRAULIC SYSTEM

Curt H. Garmager, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware

Application December 1, 1951, Serial No. 259,432
2 Claims. (Cl. 60—52)



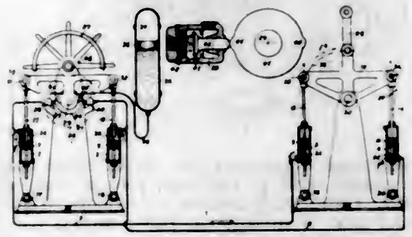
1. An hydraulic control mechanism for tractors having a sump defining housing, an engine driven pump and an hydraulic ram, comprising a cover casting for said sump, valve means in said cover casting for controlling the application of pressured fluid to said ram including a check valve, a first conduit communicating between the discharge side of said check valve and an exposed face of said cover casting, a second conduit communicating between said hydraulic ram and said exposed face, a valve housing attachable to said exposed face, said valve housing having a pair of ports respectively alignable with said first and second conduits and a remote cylinder connection port, and a manually operable valve shiftably mounted in said valve housing, said valve being constructed and arranged to selectively connect said first conduit with either said second conduit or said remote cylinder connection port.

2,657,535

HYDRAULIC REMOTE CONTROL SYSTEM, INCLUDING TRANSMITTER AND RECEIVER STATIONS AND MEANS FOR AUTOMATICALLY RESYNCHRONIZING THE RECEIVER

René Lucien Levy, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland, a corporation of Switzerland

Application May 5, 1947, Serial No. 746,029
In France January 9, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires January 9, 1961
11 Claims. (Cl. 60—54.5)



6. A hydraulic remote control system including a transmitter station and a receiving station, each station including hydraulic groups respectively comprising cylinders and pistons associated therewith, a cross beam at each station, means pivotally connecting the hydraulic groups at each station to the respective ends of the cross beam and means pivotally supporting the cross beams about an axis outside the line intersecting the axes of pivotation of the groups with respect to the ends of the beams, conduits connecting the cylinders of the respective groups, a hydropneumatic accumulator, valve controlled conduits providing for controlled communication between the accumulator and the hydraulic groups, valves in said conduits, and valve control means movable in response to the movement of the transmitter cross beam for opening the valves to permit fluid to pass from said accumulator to said hydraulic groups when the transmitter cross beam is in its median position thereby automatically restoring the receiver cross beam to a corresponding median position.

2,657,536

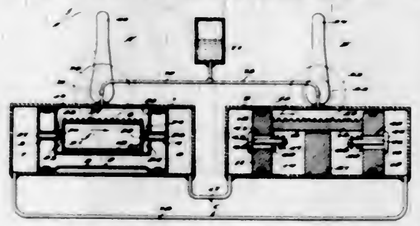
MEANS FOR COMPENSATING FOR LIQUID VOLUME VARIATIONS IN HYDRAULIC REMOTE CONTROL SYSTEMS

René Lucien Levy, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland, a corporation of Switzerland

Application May 5, 1947, Serial No. 746,031
In France July 31, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires July 31, 1962
7 Claims. (Cl. 60—54.5)

1. In a hydraulic remote control system of the type including a transmitting station and a receiving station, movable drive means at the transmitting station for initiating a power stroke in opposite directions, driven means at the receiving station movable in response to the movements of the drive means, each station including a double ended cylinder respectively constituting a transmitter cylinder and a receiver cylinder, a double headed piston movable in each cylinder and respectively constituting a transmitter piston and a receiver piston, each piston having an

axial extent more than half the axial extent of its associated cylinder and less than the total axial extent thereof, conduit means externally of the cylinders and respectively providing communication between the opposite ends of the cylinders, and means operably connecting the driven means with the receiver piston, the improvement comprising a fluid volume compensating tank, conduit means connecting the tank in communication with each cylinder at a point lying medially of the length of each cylinder so that the tank is always in fluid communication with the cylinder at the space between the heads of the pistons therein, a movable power trans-



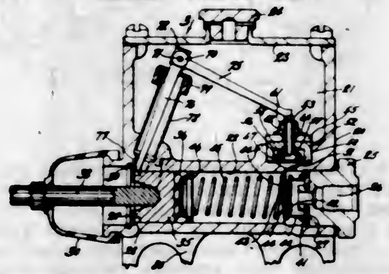
mitting member disposed between the heads of the transmitter piston, means operably connecting the drive means with the power transmitting member so that movement of the drive means moves the power transmitting member and thus the transmitter piston to force fluid into the receiver cylinder to initiate movement of the receiver piston and thus the driven member, ports through each head of each piston and providing communication between the opposite ends of each cylinder and the space between the heads of each piston and valve means at the heads of each piston controlling communication through the ports.

2,657,537

MASTER CYLINDER WITH COMPENSATING VALVE

Wilbur J. Oakley, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 26, 1950, Serial No. 192,319
10 Claims. (Cl. 60—54.6)



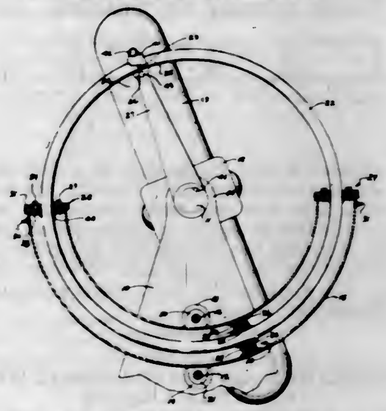
10. In combination with a housing having a fluid reservoir and a cylinder in which a piston is reciprocative to displace fluid in the cylinder under the control of a two-way valve at the one end of the cylinder, a reciprocative piston actuator extending into the other end of the cylinder and engaging the piston; a normally closed replenishing valve operative to establish a fluid flow from the reservoir into the cylinder; and pivoted means separate from and independent of the piston actuator engaging the replenishing valve inside the reservoir, said means being directly engageable by the actuator engaged side of the piston for operating the replenishing valve.

2,657,538

TORIC FLUID DISPLACEMENT CHAMBER AND PACKING THEREFOR

Edward C. Myers, Wilmette, Ill.

Application December 5, 1945, Serial No. 632,941
3 Claims. (Cl. 60—54.6)



1. In a displacement device the combination of a displacement chamber having a plastic rubber-like inner surface providing a smooth inner bore, a rigid displacing element movable in said chamber so as to displace fluid therein, and said element being larger than said bore so as to press into said rubber like surface, and having a sharp knife-edge in position to exert gentle pressure against said plastic rubber like surface in fluid-scraping relation thereto.

2,657,539

SYNCHRONIZED POWER TRANSMITTER

Howard M. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 13, 1952, Serial No. 276,427
9 Claims. (Cl. 60—97)



6. In combination with a plurality of actuators each comprising a cylinder and a lineally movable piston disposed in said cylinder capable of fluid pressure actuation in either direction, a member rotatably supported within the cylinder and operatively connected to the piston such that said member will rotate in response to linear movement of said piston, and means including a rotatable element interconnecting the rotatable members of adjacent actuators for effecting synchronous operation thereof.

2,657,540

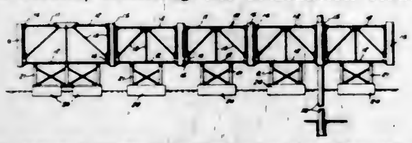
METHOD OF ERECTING AND POSITIONING MARINE STRUCTURES

John B. Templeton, Dallas, Tex.

Application June 14, 1948, Serial No. 32,766
5 Claims. (Cl. 61—46)

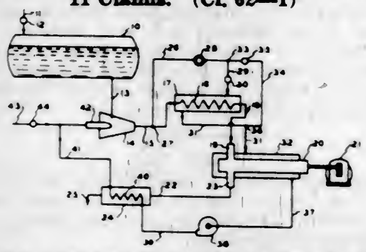
1. The method of erecting an over-water marine foundation structure over a body of water

which includes, supporting the foundation structure on float means, floating the foundation structure on the float means to the desired location, sinking an initial pile through the foundation structure and into the earth below the body of water while the structure is supported by the float means, orienting the foundation structure



with respect to said initial pile to a desired position, sinking additional piles through the foundation structure into the earth below the body of water while the structure is supported on the float means, securing the foundation structure on the piles above the bed of the body of water, and removing the float means from position supporting the foundation structure.

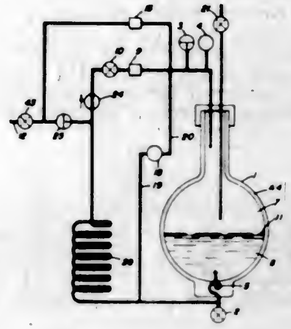
2,657,541
METHOD AND APPARATUS FOR PUMPING VOLATILE LIQUIDS
Clarence J. Schilling, Allentown, Pa., assignor to Air Products Incorporated, a corporation of Michigan
Application April 10, 1950, Serial No. 155,021
11 Claims. (Cl. 62—1)



1. The method of pumping a highly volatile liquid from a reservoir in which the liquid is maintained at a pressure corresponding to its equilibrium boiling point temperature by a pump having a liquid conveying end to a receiving means at a relatively high pressure comprising forming a stream of the liquid under the pressure maintained in the reservoir, forming an auxiliary stream of liquid, expanding the auxiliary stream of liquid to a lower pressure to form a stream of fluid colder than the stream of liquid from the reservoir, heat exchanging the colder stream against the liquid conveying end of the pump to prevent vaporization of liquid being pumped and thereby forming an effluent colder stream, subcooling the stream of liquid from said reservoir, passing the subcooled stream to the pump and raising the pressure of the effluent colder stream from the heat exchange step and introducing the effluent stream into the stream of liquid from the reservoir.

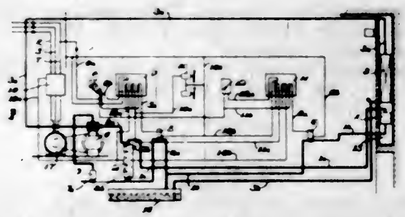
2,657,542
LIQUID OXYGEN CONVERTER APPARATUS
William A. Wildhack, Arlington, Va.
Original application February 5, 1946, Serial No. 645,692, now Patent No. 2,576,985, dated December 4, 1951. Divided and this application October 10, 1951, Serial No. 250,777
6 Claims. (Cl. 62—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. Liquid-gas converter apparatus comprising an insulated container having lower and upper sections, a pressure build-up circuit having an evaporating and warming coil between the lower and upper sections of the container, a supply circuit having an evaporating and warming coil connected to the lower section, and a liquid trap



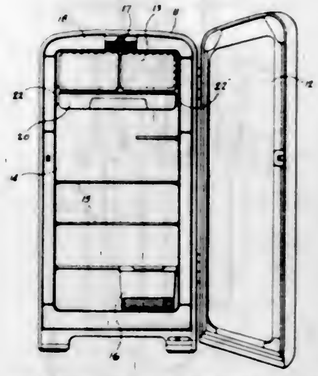
device connected in the pressure build-up circuit between the evaporating and warming coil and the lower section of the container, said coils being combined as a single coil unit common to both circuits.

2,657,543
METHOD AND APPARATUS FOR MAINTAINING TEMPERATURE AND HUMIDITY CONSTANT
Theophil Eichmann, Berne, Switzerland, assignor to George B. Scarlett, Kennett Square, Chester County, Pa.
Application October 8, 1948, Serial No. 53,394
7 Claims. (Cl. 62—4)



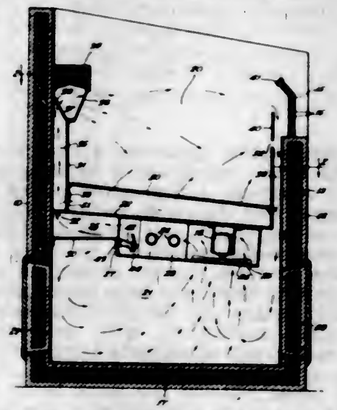
1. A system for maintaining constant the temperature and the humidity of a space to be conditioned comprising, in combination, a refrigerating machine including, a refrigerant compressor, a liquid-cooled condenser, and a refrigerant evaporator in heat transfer relation with the space to be conditioned; an air-cooled condenser in heat exchange relation with the space to be conditioned and being connected in parallel with said liquid-cooled condenser; means for controlling the discharge of condensed refrigerant from said liquid-cooled condenser; means for cutting in and rendering active said air-cooled condenser to cause said compressor to function as a heat pump with said air-cooled condenser; temperature control means in the space to be conditioned in operative relation with said means for cutting out said liquid-cooled condenser; and humidity controlled means in the space to be conditioned in operative association with said means for cutting in said air-cooled condenser.

2,657,544
REFRIGERATOR TRAY
Harold C. Mather, Elmwood Park, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application March 7, 1950, Serial No. 148,109
6 Claims. (Cl. 62—89)



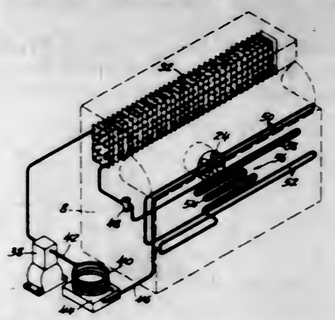
1. A refrigerator comprising a cabinet, a freezer compartment disposed in the top of said cabinet, a drawer disposed in said cabinet beneath said compartment, said drawer being adjustable vertically in said cabinet to be held in close juxtaposition to said compartment, and being insulated to allow frozen foods to be stored therein, and deflection means mounted in said cabinet adjacent the lower edges of said freezer compartment adapted to deflect cold air currents into said drawer.

2,657,545
REFRIGERATED DISPLAY CASE
Verne C. Knight, Michigan City, Ind., assignor to Betz Corporation, Hammond, Ind., a corporation of Indiana
Application June 13, 1950, Serial No. 167,833
13 Claims. (Cl. 62—89.5)



1. A refrigerated display case having an upper open-top compartment and a lower enclosed compartment, vertical walls forming said compartments and a horizontal partition separating said upper and lower compartments, a refrigerating unit disposed in said lower compartment adjacent said partition, said refrigerating unit having a relatively small vertical dimension so that it extends only in the upper portion of said lower compartment, duct means defining a cold air passage extending in said upper compartment adjacent one of said vertical walls and communicating with said refrigerating unit, duct means defining an exhaust air passage in said upper compartment adjacent the vertical wall opposite to said one wall and communicating with said lower compartment, said refrigerating unit having an intake portion communicating with said lower compartment, a discharge portion communicating with both said cold air passage and said lower compartment, and means for drawing air into said intake portion and discharging the same from said discharge portion, whereby first and second paths for refrigerated air are individually provided through said upper and lower compartments.

2,657,546
SNOW ELIMINATOR FOR SELF-SERVICE CASES
Victor W. Smith, Trenton, N. J., assignor to C. V. Hill & Company, Inc., Trenton, N. J., a corporation of New Jersey
Application July 2, 1951, Serial No. 234,884
2 Claims. (Cl. 62—89.6)

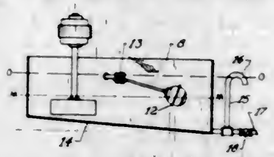


1. A refrigerated display case having a display space which is open at the top for access to customers, means presenting surfaces forming an air duct located in heat exchanging relation with said display space and leading from an air inlet adjacent the top of said display space to a blower, thence to an evaporator and back to the display space, a compressor for supplying refrigerant to said evaporator and a conduit carrying compressed and relatively warm refrigerant from the compressor to the evaporator and passing first into heat exchanging relation with said surfaces adjacent said air inlet for raising the temperature of said surfaces and thereafter passing into heat exchanging relation with surfaces adjacent said blower for reducing the tendency for snow and ice crystals to accumulate thereon.

2,657,547
AUTOMATIC SEDIMENT PURGER FOR TUBE ICE MACHINES
Henry V. Heuser, Louisville, Ky., assignor to Henry Vogt Machine Company, Louisville, Ky., a corporation of Kentucky
Application May 29, 1950, Serial No. 164,875
4 Claims. (Cl. 62—107)

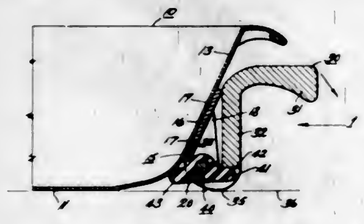
1. In a tube ice-making machine: a freezer providing tubes subject to alternate freezing and thawing temperatures and through which water to be frozen is passed; a water supply tank providing a low point to which sediment gravitates; means connected to a higher point in the tank for pumping water from the supply tank to the tops of the freezer tubes whereby during the

freezing period a quantity of water is maintained in suspension; means controlled by the level of water in the tank for replenishing water in the tank to a predetermined level; means for stopping flow of water to the freezer tubes during the thawing cycle whereby the suspended water



returns to the tank to raise the liquid level therein; and an overflow pipe having a bend positioned between said predetermined level and raised level connected to said low point of the tank to purge settled solids therethrough and to limit siphoning of water to the level of said bend.

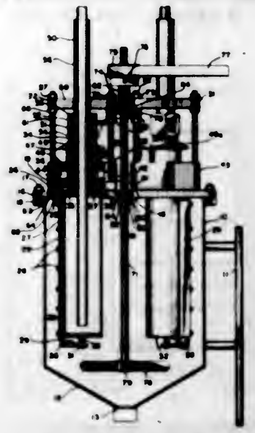
2,657,548
FREEZING PAN
Arthur J. Frei, Sr., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 29, 1951, Serial No. 234,314
3 Claims. (Cl. 62—108.5)



1. A freezing pan having an end wall, a handle for said pan pivoted to said end wall on a horizontal pivot pin located adjacent the bottom portion thereof, said handle having a lower cam portion so arranged as to press down upon a horizontal supporting surface for said pan when the upper portion of said handle is swung outwardly from said end wall to forcibly lift said pan from said supporting surface, and a resilient rubber bar mounted upon said pivot pin and extending transversely thereof, said bar having its two opposed end portions pressing against said pan and said handle respectively in such manner that said handle is at all times yieldably urged inwardly toward said end wall to a generally upright position whereat said cam portion lies above said flat supporting surface.

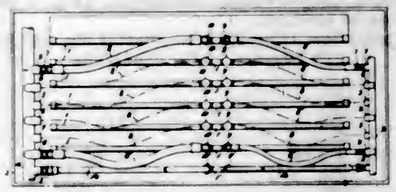
2,657,549
FREEZING APPARATUS
Elwood Paul Wenzelberger, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
Application April 4, 1950, Serial No. 153,806
10 Claims. (Cl. 62—114)

1. Freezing apparatus for dehydrating fluid compositions to a slush wherein the water constituent is removed in the form of substantially pure ice crystals, said apparatus comprising a shell, an axial outlet in the bottom of said shell, an axially mounted stirrer with mixing blade positioned adjacent said outlet, a plurality of cylinders mounted within said shell, conduit means connected to the interior of said cylinders and to a source of refrigerant for introducing refrigerant into said cylinders, and scraper means for the outer surface of each of said cylinders, said



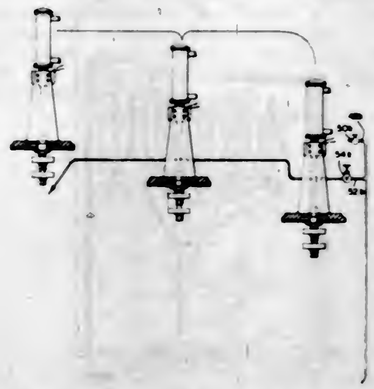
scraper means contacting both the sides and bottom surfaces of each cylinder, said cylinders and scraper means being adapted for movement relative to each other.

2,657,550
REFRIGERATING APPARATUS
Alexander Sidney Alison, Norbury, London, and Ronald Atherton, Chelsea, London, England, assignors to General Foods Corporation, New York, N. Y., a corporation of Delaware
Application January 12, 1951, Serial No. 205,692
3 Claims. (Cl. 62—114)



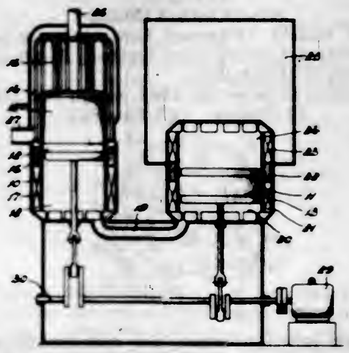
1. A refrigerating apparatus for quick-freezing foodstuffs which comprises a vertical stack of relatively separable refrigerating plates, refrigerant supply and discharge headers disposed at the rear of said stack and refrigerant inlet and outlet connections located on the rear face of each plate, and two groups of flexible conduits one connecting said plate inlet connections with said supply header and the other connecting said plate outlet connections with said discharge header, each group of conduits being divided into two sets, one set comprising conduits connected to every other plate of the stack being capable of flexing in a plane substantially parallel to the rear face of the stack and the other set comprising the conduits connected to the remaining plates of the stack being capable of flexing in a plane substantially parallel to said first mentioned plane and located between it and the rear face of the stack, each of said flexible conduits being of such a length that when the plates are in the closed position any ice coating on a flexed conduit does not contact that on the conduit which is immediately below it in the same plane.

2,657,551
METHOD AND APPARATUS FOR DEHYDRATION
Harry A. Toulmin, Jr., Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
Application January 18, 1950, Serial No. 139,174
12 Claims. (Cl. 62—124)



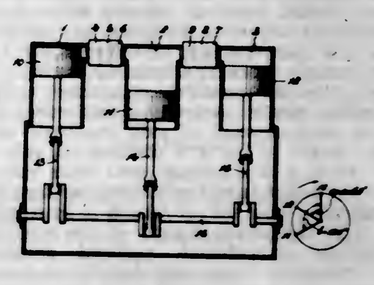
1. In an apparatus for freeze-dehydrating aqueous substances; a tiltably supported container, means for chilling the container to cause ice to form on the walls thereof when the substance to be dehydrated is in the container, a centrifuge positioned to receive at least a portion of the contents of the container, means for tilting said container, and means for flash heating the container to loosen the ice on the walls thereof.

2,657,552
HOT GAS ENGINE REFRIGERATOR
Cornelius Otto Jonkers and Jacob Willem Laurens Köhler, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 17, 1951, Serial No. 221,366
Claims priority, application Netherlands June 10, 1950
4 Claims. (Cl. 62—136)



1. A closed system refrigerator having an amount of gas of invariable chemical composition as the working medium comprising at least two displacers adapted to move with a substantially harmonic motion and with a constant phase difference in relation to each other, each of said displacers being provided with two working surfaces, one working surface of one displacer defining one end of a hot-space and acting upon a volume of gas in said hot space, the other working surface of said one displacer defining one end of a space of intermediate temperature and acting upon a volume of gas of intermediate temperature, one working surface of the other displacer defining the other end of said space of intermediate temperature and acting upon a volume of gas of said intermediate temperature, the other working surface of said other displacer defining one end of a cold space and acting upon a volume of gas in said cold space, the variations in volume of gas in hot space leading in relation to the variations in volume of gas in said cold space, the sum of said volumes being substantially constant, said hot space communicating with said space of intermediate temperature by means of a heater, regenerator and cooler, and said cold space communicating with said space of intermediate temperature by means of a freezer, regenerator and cooler.

2,657,553
SELF-DRIVING DEVICE FOR TRANSPORTING HEAT FROM A LOWER TO A HIGHER TEMPERATURE LEVEL
Cornelius Otto Jonkers, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application October 3, 1951, Serial No. 249,591
Claims priority, application Netherlands October 9, 1950
10 Claims. (Cl. 62—136)



1. A self-driving machine for transporting heat from a lower temperature level to a higher level, comprising a closed system containing gas of invariable chemical composition as the working medium and having first means enclosing a hot space, second means enclosing a freezing space, third means enclosing a cooled space, fourth means connecting said hot space to said cooled space, fifth means connecting said freezing space to said cooled space, said fourth and said fifth means each having a heater, a regenerator and a cooler therein, a plurality of reciprocating piston-like members varying the volumes of said spaces together with the total volume of the system, rod and shaft means for interconnecting said piston members and for reciprocating said piston members substantially harmonically with a constant phase difference, the variations in volume of the hot space differing in phase in the amount b from those of the cooled space and by an amount c from those of the total space a, b and c being assumed as positive if the hot space leads with respect to the spaces concerned, while both a and c are comprised between $d-180°$ and d, and

$$\tan d = \frac{v_1 \sin a + k \sin b}{v_1 \cos a + k \cos b + l}$$

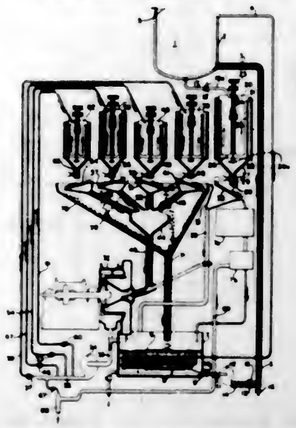
in which both $\sin d$ and the numerator of the fraction are positive.

2,657,554
LIQUID DISPENSER
Robert R. Hull, Pasadena, Calif., assignor, by mesne assignments, to Roy F. Steward, Merrill F. Steward, and Donald T. Steward, all of Meriden, Conn.
Application August 21, 1951, Serial No. 242,953
5 Claims. (Cl. 62—141)



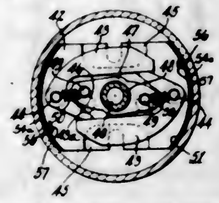
1. In combination in a liquid dispenser: an open-top liquid reservoir having inwardly sloping shoulders adjacent its lower end which terminate in a neck-portion of reduced size having an open mouth therein; a housing having a cover upon which said reservoir is supported; coupling-and-sealing means secured to said cover to engage the neck-portion of said reservoir to support the latter in upright position on said cover and to form a liquid-tight seal with said open mouth; an outlet tube for dispensing liquid from said reservoir, one end of which is in communication with said open mouth of the reservoir; a substantially cylindrical, vertical column of smaller diameter than said mouth, said column being secured to said cover so as to project upwardly into said reservoir through said mouth; a refrigerating system including a cooling coil disposed in said column, also a compressor and a condenser located within said housing; a helical agitator encircling said column in closely spaced relation thereto, and mounted upon a shaft which extends axially downward through said column into said housing below said cover, is supported for rotation within said column, and has a flanged wheel secured to its lower end; driving means located in said housing adapted and arranged to engage the flange of said wheel to rotate the latter and thereby rotate said agitator, whereby to effect a flow of liquid vertically along the surface of said column, said inwardly sloping shoulders of said reservoir serving to direct the circulating liquid inwardly toward said column; a partition dividing said housing into upper and lower compartments which are in communication through an opening in said partition, the housing having portions of its side wall apertured at locations respectively above and below the partition; and impeller means carried by said flanged wheel and so disposed in cooperative relation to said opening in the partition that, upon rotation of said wheel, air is drawn into said housing on one side of said partition and forced out of the housing on the other side of the partition.

2,657,555
METHOD OF DEHYDRATION BY FREEZING
Elwood Paul Wenzelberger, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
Application July 3, 1950, Serial No. 171,936
7 Claims. (Cl. 62—176)



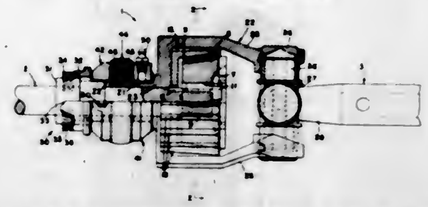
1. In a method of dehydrating a liquid composition of relatively low solids content, the steps of lowering the temperature of the composition below the solidification temperature of the crystallizable solvent therein; agitating the composition and the solvent crystals to control crystal size and to prevent agglomeration; agitatingly removing crystals beyond a predetermined size from the composition; and thereafter separating the crystals of smaller size and beyond a second predetermined size from the composition by centrifugal force, whereby the composition is concentrated to the extent of the solvent removal, repeating the solidification of crystallizable solvent in the more concentrated liquid composition by application of lower temperature, and again removing and separating the crystals from the concentrated composition.

2,657,556
IGNITION TIMER
Harold V. Elliott, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 26, 1949, Serial No. 123,686
10 Claims. (Cl. 64—25)



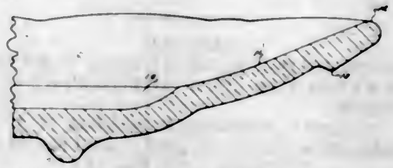
1. In an ignition timer, the combination comprising a shaft, a weight plate attached thereto, a timer cam journaled on the shaft, means transmitting motion from the shaft to the cam and including weights pivoted on the plate and providing levers, and a plate attached to the cam and providing cams engaged by said levers and a weight and cam plate retainer comprising a sheet metal plate through which the timer cam extends and having resilient flanges, said flanges being constructed to fit over the edge of the weight plate and having detents to provide retaining lugs cooperating with said weight plate to hold the retainer plate thereupon.

2,657,557
SLIP CLUTCH
Austin E. Young, Syracuse, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill., a corporation of Illinois
Continuation of application Serial No. 686,187, July 25, 1946. This application August 10, 1951, Serial No. 241,296
5 Claims. (Cl. 64—30)



1. In a slip clutch construction, a shaft, a first friction member fixed to the end of said shaft, a second friction member, a part carrying said second friction member and mounted for rotation on said shaft, said second friction member being disposed normally in frictional contact with said first friction member, said part having a hub portion, a generally cylindrical collar having a radially inner surface mounted for rotation on the hub portion of said part and having bearing contact therewith so as to accommodate rotation of said part relative thereto, a lubricant fitting carried by said collar for supplying lubricant to said contacting surfaces, an abutment on said shaft, and a resilient rubber-like part compressed between said abutment and collar and bearing, by virtue of said compression, against said shaft adjacent the zone of contact of said part with the shaft, so as to cooperate with said collar to prevent loss of lubricant from said contacting bearing surfaces.

2,657,558
RIM STRUCTURE FOR FLAT TABLEWARE
R. Guy Cowan, Fayetteville, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application November 30, 1949, Serial No. 130,189
1 Claim. (Cl. 65—15)



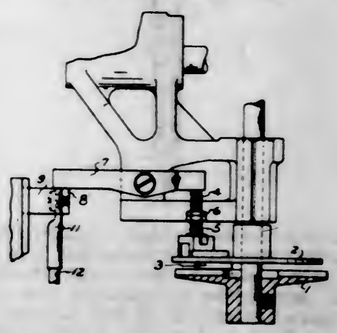
A plate or similar article of tableware formed of frangible material comprising a substantially flat central portion encircled by a rim portion extending from said central portion at an angle of 20° or less to the horizontal, said rim portion having an annular portion of gradually and uniformly increasing thickness from the peripheral edge thereof to a shoulder on the underside of said rim spaced from said peripheral edge and an annular portion of uniform thickness from said shoulder to said central portion, the thickness of said last-named annular portion being substantially equal to the thickness of the peripheral edge of said rim.

2,657,559
ANTIDRIP DEVICE FOR COFFEE CUPS AND THE LIKE
Elaine Berg, Chicago, Ill., assignor of one-third to Robert H. Wendt, Evanston, and one-third to Faith P. Peters, Chicago, Ill.
Application August 31, 1951, Serial No. 244,665
1 Claim. (Cl. 65—65)



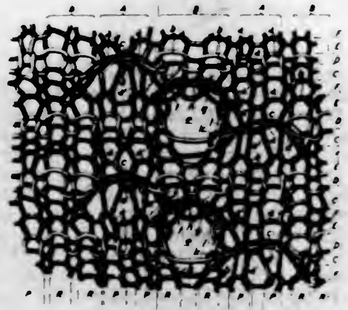
An anti-drip device for coffee cups and saucers, comprising an annular member formed of a strip of relatively stiff, bendable material of sufficient width to space a cup from a saucer, with the cup out of contact with the bottom of the saucer, said band having its ends overlapping and secured together, the diameter of said annular member being sufficient to receive and support a cup on the upper edge of said annular member, with the cup depending into the annular member, and a radially extending handle having an upwardly turned attaching flange secured at said overlapping parts of said band, said handle curving upwardly in substantial conformity to the curvature of the inside of a saucer, and being bent backwardly upon itself at an acute angle, to extend below the outer portion of the saucer and to provide a handle covering sufficient of the saucer, so that the saucer may be grasped between the thumb and forefinger at said handle without the fingers engaging the saucer, and the length of said handle being such that when the handle is hooked over the edge of a saucer, said annular member is disposed substantially centrally of said saucer.

2,657,560
METHOD OF TRANSFERRING LOOPS FROM DIAL NEEDLES TO CYLINDER NEEDLES
Eugene St. Pierre, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application July 13, 1950, Serial No. 173,561
1 Claim. (Cl. 66—24)



A method of transferring loops of knitted fabric from dial needles to cylinder needles of a circular, independent needle, knitting machine which includes causing the dial transfer cam to engage butts on dial needles and simultaneously to engage frictionally the upper face of the dial to exert a positive braking pressure on said face simultaneously with the projection of the dial needles for transfer, thereby insuring a proper relationship between the dial and cylinder needles during transfer.

2,657,561
KNITTED FABRIC AND METHOD OF MAKING THE SAME
Alfred Percy Saunders and Henry Harold Holmes, Leicester, England, assignors to Wildt and Company Limited, Leicester, England, a British company
Application April 25, 1951, Serial No. 222,752
Claims priority, application Great Britain March 8, 1951
15 Claims. (Cl. 66—198)



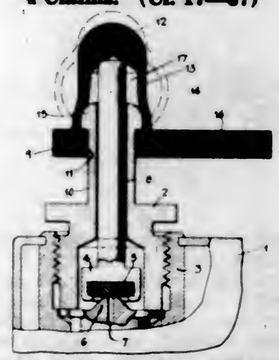
1. Knitted fabric having at desired locations thereof small openings produced by the incorporation in the fabric of pelerine stitches, and tuck loops which are so linked with the said pelerine stitches that at the aforesaid locations the surface of the fabric is raised.

2,657,562
MECHANICAL LIGHTER
Selik Bachrach, Florida, Argentina
Application October 28, 1949, Serial No. 124,165
5 Claims. (Cl. 67—7.1)



1. In a mechanical lighter, a hollow supporting body having one end terminating in a tapered portion, said tapered portion being provided with a central passageway terminating in a mouth, a seat arranged interiorly of said tapered portion and spaced from said mouth, a spring positioned in said body and having one end abutting a shoulder, an elongated element extending longitudinally through said spring, a slider reciprocally arranged in said body and defining a fuel holding reservoir, a cover connected to an end of said slider, a tubular mount extending from said cover and projecting into said coil spring, an ignition system including a wick and a rubbing element arranged in the upper end of said body, and manually operable means for actuating said slider, said means comprising a clip arranged exteriorly of said body, there being a slot arranged in said body, a washer circumposed on said slider and secured thereto, and a pin extending through said slot and having one end secured to said slider and the other end secured to said clip.

2,657,563
DETACHABLE VALVE CLOSURE
Ray L. Burchett, East Orange, N. J., assignor to Ronson Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey
Application June 15, 1950, Serial No. 168,225
4 Claims. (Cl. 17—87)

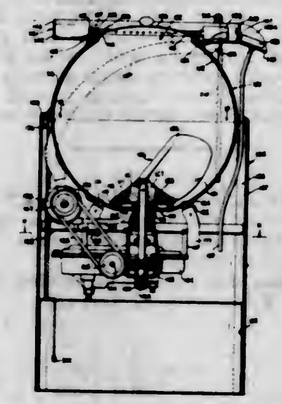


1. In combination, a gas lighter fuel container having a chamber containing gaseous fuel under pressure, a burner projecting from said container, said container also having a fuel conducting passageway leading to said burner and a valve interposed in said passageway, said valve having an actuating member exposed at the mouth of the burner, said valve actuating member being mounted to move between an inner position wherein said valve is closed and an outer position wherein said valve is open, and an elastic walled closure cap having a cavity therein, said cavity having gas tight walls and said cap being mounted with the walls of said cavity closely surrounding and in gas tight detachable engagement with the projecting portion of said burner and also surrounding said valve actuating member to form a gas tight chamber containing said projecting portion of said burner and said member, said cap having a head bearing against said valve actuating member, and the sides of the cap being in tension to resiliently urge said valve into closed position.

2,657,564
WASHING MACHINE HAVING FLEXIBLE EXTRACTOR AND AUTOMATIC CONTROL
George C. Graham, Ridgewood, N. J.
Application March 17, 1949, Serial No. 81,940
35 Claims. (Cl. 68—12)

2. In washing apparatus, a tub having a clothes receiving chamber and an open top, a drain trough surrounding said top, a drain at the bottom of said tub, a connection therefrom to said trough, clothes and water agitating means mounted for operation in said chamber, means for supplying water to said tub, a flexible diaphragm mounted in said tub in a position normally clear of said open top and said drain, and means for operating said diaphragm to remove the water from said chamber through the top of said tub and said drain.

8. In a washing apparatus, a tub, a flexible diaphragm mounted therein, means for expanding the diaphragm in the tub, agitating means on the interior of the tub and subject to pressure when the diaphragm is expanded, a shaft extending into the tub and on which the agitating means is secured, a stuffing box mounting for said shaft, and means permitting the mounting for the agitating means to temporarily move vertically under pressure on said agitating means occasioned by expansion of the diaphragm.



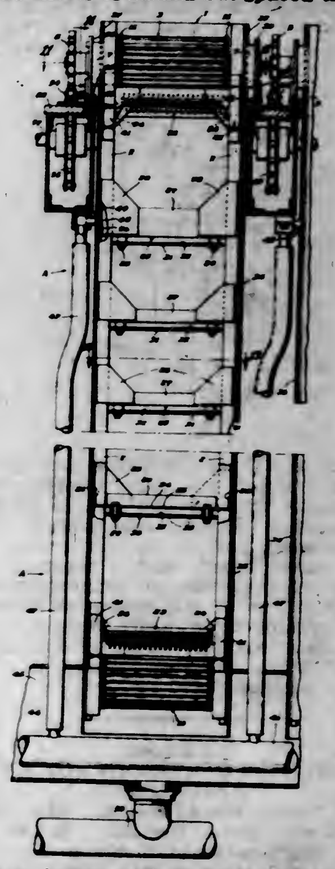
9. In washing apparatus, a tub, a flexible diaphragm mounted in the tub and normally resting against an interior wall thereof, the tub having a fluid inlet to the rear of said diaphragm, means for supplying fluid under pressure through said inlet, and a cover closing said inlet and mounted so as to be moved inwardly against the diaphragm by the pressure of the incoming water.

29. In washing apparatus, a tub having a clothes receiving chamber, a flexible diaphragm fitting about the sides of the tub and leaving an opening at the top and bottom of the tub, an agitator arranged to operate in said tub near the bottom thereof, an oscillatable shaft extending through the bottom of the tub, said agitator being mounted on the upper end of said shaft, water inlet and drain connections to said tub communicating with the interior of said chamber through said bottom opening, and fluid connections to said tub in back of said diaphragm to admit fluid for operating the diaphragm.

30. In a washing machine, a tub having an open top, a flexible liner for said tub extending from adjacent the open top to adjacent the bottom of the tub, means for agitating clothes and water in the tub, a cover for said open top and having a portion engaging the liner adjacent the open top so as to aid in holding the upper end of the liner in place, and means for admitting fluid between said liner and said tub to cause the same to move substantially radially inwardly from more than one direction.

2,657,565
APPARATUS FOR FLUID TREATMENT OF STRAND MATERIAL
Pyam L. Pendleton, Edgewood, R. I., assignor, by mesne assignments, to Hampton Machine Company, Providence, R. I., a corporation of Rhode Island
Application October 2, 1947, Serial No. 777,445
8 Claims. (Cl. 68—205)

8. Apparatus for the fluid treatment of a continuous traveling strand which comprises a supporting frame, a pair of vertically spaced rolls mounted in said frame, said rolls being adapted to support the traveling strand as a plurality of convolutions temporarily forming oppositely traveling substantially planar sheets composed of contiguous courses of moving strand, a plurality of vertically spaced plates and means for mounting the same upon said frame between said rolls, said plates having horizontal upper surfaces with their edges extending closely adjacent the sheets of strand but spaced therefrom

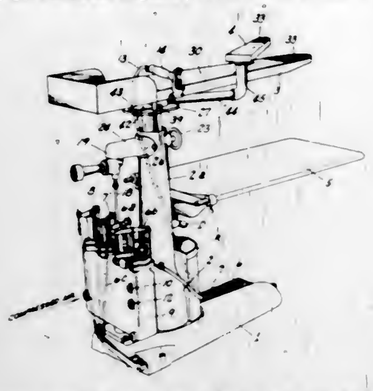


and means for supplying treating fluid to the upper surface of each of said plates, whereby said fluid will form a thin flaccid flowing film of treating fluid extending over the edge of each of said plates into contact with said strand and whereby in each of said courses said strand will engage and pick up fluid only from the over-extending marginal portions of each of said films.

2,657,566
VACUUM SPOTTING BOARD
Frank H. Richterkessing, Jefferson County, near Louisville, Ky., assignor to W. M. Cissell Manufacturing Company, Louisville, Ky., a corporation of Kentucky
Application March 6, 1950, Serial No. 147,943
6 Claims. (Cl. 68—240)

1. In a vacuum spotting board, a vacuum chamber and means for maintaining a partial vacuum therein, a horizontal plate mounted on said chamber and having a suction port therethrough communicating with said chamber, a main spotting board mounted in spaced relation above said plate and having a vacuum line operatively associated therewith, means connected to the under surface of said board defining a smooth

horizontal surface spaced above said plate, said surface having an evacuation port opening downwardly therethrough from said vacuum line, in combination with a valve element pivotally mounted between said plate and said surface and in snug engagement with each for swinging movement across said ports, a sleeve board carried by said valve element for swinging movement therewith between an operative position above said main board and an inoperative position out of vertical registry with said main board,



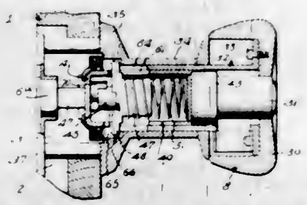
a vacuum line being operatively associated with said sleeve board, said valve element having a fluid passage therethrough located to establish communication between said suction port and said evacuation port in the inoperative position of said sleeve board, and a separate passage therethrough in permanent communication with the vacuum line of said sleeve board, said last passage opening downwardly through said valve element in a location to register with said suction port when the sleeve board is swung to operative position.

2,657,567

LOST MOTION CARTRIDGE FOR KEYS IN KNOB LOCKS

Herbert Young, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan

Application October 23, 1951, Serial No. 252,618
11 Claims. (Cl. 70—216)



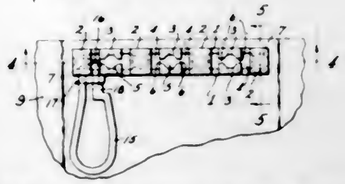
1. In a lost motion assembly adapted to be received in the knob shank of the outside knob of a key-in-knob lock, the combination comprising: a tubular shell closed on one of its ends; a hollow shaft mounted to said closed end of said shell concentrically thereof and projecting away from said shell; an aperture through the closed end of said shell aligned with said shaft; a bar rotatably seated within said shell; a rod on said bar extending through said aperture and said shaft; the walls of said shell defining an L-shaped opening having one leg arranged longitudinally of said shell and the other leg circumferentially of said shell; said other leg being spaced from said closed end of said shell; a barrier member within said shell, said barrier member being rotatable with respect to said bar; said barrier member having a wing adapted to pass through said L-shaped opening; a resilient element within said shell bearing against said barrier member and urging said barrier member against said bar and said bar against said closed end of said shell; a support in said shell adjacent the closed end of said shell, said support adapted to hold said bar, when said bar is rotated into alignment therewith, spaced from the closed end of said shell; said wing on said barrier member, when said bar is seated upon said support, being aligned with said other leg of said opening and spaced from the circumferentially extending walls thereof.

2,657,568

KEY HANGER SUPPORT FOR KEY CASES

Clyde E. Morrell, Southbridge, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a corporation of Massachusetts

Application May 17, 1951, Serial No. 226,870
4 Claims. (Cl. 70—456)



4. A key hanger support for key hangers having shanks with enlarged heads at the end of the shanks which comprises a chambered member formed with spaced transverse slots closed at their ends and of a width to accommodate the shank but not the head of a hanger, the portion of the wall of said chamber intermediate said slots being formed with an opening, slits connecting said opening with each adjacent slot, said slits with said opening dividing the said intermediate wall portion into opposed members, said slits being of less width than said slots, said opposed members being formed of resilient material to permit resilient separation of the said opposed members to permit passage of a hanger head through said opening and passage of a hanger shank along said slits and into said slots.

2,657,569

KEY CONTAINER

David Hill, Brooklyn, N. Y., assignor to George Hill, North Hollywood, Calif.

Application October 26, 1950, Serial No. 192,216
4 Claims. (Cl. 70—456)



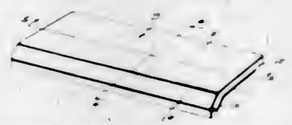
3. A key container comprising a pair of opposed plates, each having thumb notches in opposite side edges and a pair of key pivot posts, one in each of a pair of diagonal corners, a pair of integral spacer blocks, one adjacent each of the remaining corners, with each of said spacer blocks provided with a recess to receive a pivot post of the opposing side plate, said spacer blocks serving to maintain said plates in spaced relationship, a pair of side edge walls, one adjacent each spacer block corner of such plate, each of said walls being of less height than the spacing between plates to form a passage for a key, a pair of spring anchoring posts, one disposed centrally of each of said plates, said posts each having a diametrical spring retaining groove therein, a leaf spring disposed in said groove and having reversely bent arms engaging with their free ends, the side edge walls of such plate, a pair of resiliently hinged tabs, one disposed in front of each of said pivot posts and in substantially the plane of said plate, and means for holding a pair of such plates in opposed assembled relationship.

2,657,570

WALL VENTILATOR

Walter G. Moore, West Palm Beach, Fla.

Application July 9, 1949, Serial No. 103,805
1 Claim. (Cl. 72—127)



A ventilating device for concrete block walls having mortar joints and air passages extending through the blocks, a ventilator formed of a pair of upper and lower metallic sheets co-extensive in length and held in spaced relation, a plurality of rods extending transversely between the sheets and equidistantly spaced in parallelism for providing a plurality of air channels opening at either edge of the ventilator, the rods and sheets welded into a rigid structure, the forward edges of the sheets bent downwardly at an angle to form a water shield for the air channels, the upper sheet at the rear edge of the ventilator extended beyond the lower sheet throughout the length of the ventilator to provide a mortar shield for the air channels, the said rods extending substantially the full width of the upper extended sheet to the rear edge thereof, said ventilator being of a thickness adapted to correspond to the mortar joint of a wall and adapted to be positioned in the mortar joint with its forward edge extended beyond the forward face of the wall and its rear edge partially overlying and communicating with the air passages of the blocks.

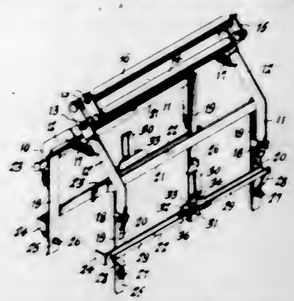
2,657,571

CONCRETE BLOCK HANDLING TOOL

Louis F. Looze, Buffalo, N. Y.

Application October 23, 1950, Serial No. 191,522
3 Claims. (Cl. 72—129)

1. A tool of the character described, comprising a substantially rectangular, laterally-expansible frame including laterally-spaced pendant bars at its front and rear ends, companion front and rear block-engaging members fulcrumed intermediate their upper and lower ends to said companion frame bars in pendant, transverse swiveling relation thereto, means in operative relation to said members for yieldingly urging them toward bearing contact with the block being handled, said block-engaging members having extensions at their lower ends for facial alining contact with the opposite sides of an adjoining subjacent laid block and the front members having forwardly-facing extensions at their upper ends for facial alining contact with the opposite sides of an endwise-alined block, and angularly-displaceable



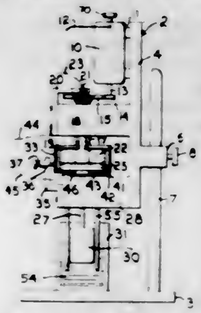
block-supporting and gaging elements rotatably mounted on the lower ends of said members.

2,657,572

VISCOSITY MEASURING DEVICE

James D. Fann, Houston, Tex.

Application May 19, 1947, Serial No. 748,925
9 Claims. (Cl. 73—59)



1. A device for measuring the flow properties of fluids comprising a rotatable member arranged to be driven in contact with the fluid to be tested, a drive shaft attached to said member, a driving means for said shaft, a displaceable magnetic coupling means disposed between one end of said shaft and said driving means, said coupling means being horizontally displaceable in proportion to the resisting torque produced by the drag on the rotatable member by the fluid being measured and means to indicate displacement of said coupling means.

2,657,573

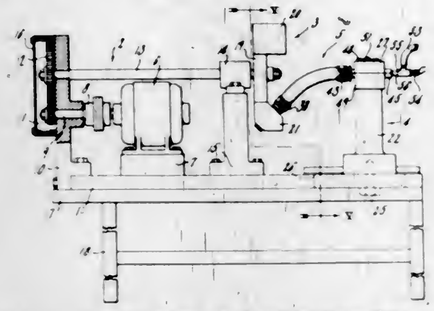
APPARATUS FOR TESTING FLEXIBLE MEMBERS

Martin Castricum, Grosse Pointe, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application September 22, 1948, Serial No. 50,543
1 Claim. (Cl. 73—100)

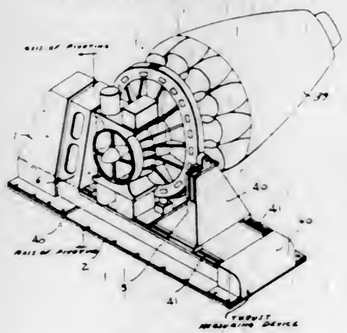
Apparatus for testing a flexible tubular test piece comprising, a stationary support, a hollow shaft rigidly secured to said support, one end of said hollow shaft extending from said support whereby one end of said tubular test piece may be slid over said one end of the hollow shaft, means for tightly clamping said one end of said tubular test piece on said one end of said hollow shaft, means for introducing fluid under pressure through said hollow shaft into said tubular test piece, an arm rotatably mounted for movement in a plane perpendicular to the axis of said hollow shaft and about an axis which is in align-

ment with the axis of said hollow shaft but spaced a substantial distance from said hollow shaft, a solid shaft mounted for free rotation on said arm at a point spaced from the axis of



rotation of said arm and extending from said arm whereby the other end of said tubular work piece may be slid over the end of said solid shaft, means for tightly clamping said test piece on said solid shaft, and means for rotating said arm.

2,657,574
ENGINE TEST BENCH
Cyril Dorking Whitehead, Cardiff, Wales, assignor to John Curran Limited, Cardiff, Wales, Great Britain
Application November 8, 1948, Serial No. 58,975
Claims priority, application Great Britain November 18, 1947
6 Claims. (Cl. 73—116)



1. An engine test bench comprising a beam, a fixed support, vertically spaced pivot means securing said beam to said support for pivotal movement of the beam about a vertical axis, means for securing an engine to the beam between an end of the beam and the said pivot means, flexible fuel leads disposed one above the other between the vertically spaced pivot means, and thrust measuring means actuatable by pivotal movement of the beam about the said vertical axis.

2,657,575
ASYMMETRIC ADJUSTABLE SUPERSONIC NOZZLE
Harry J. Allen, Palo Alto, Calif.
Application August 21, 1947, Serial No. 769,968
5 Claims. (Cl. 73—147)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. An asymmetrical supersonic nozzle for use with a wind tunnel said nozzle having an inlet end and a test section at the opposite end and comprising a pair of fixed parallel walls, a fixed curved wall, and a movable wall having a curvature substantially inverse to that of said curved wall so as to form a flared inlet end for said nozzle, said walls defining a passage of substantially rectangular cross-section, the movement of said movable wall permitting the adjustment of



the relative areas within said passage to obtain a continuous adjustment of the Mach number at the test section of said passage the upper limit of the ratio of the cross sectional areas at the inlet end and test section being unity.

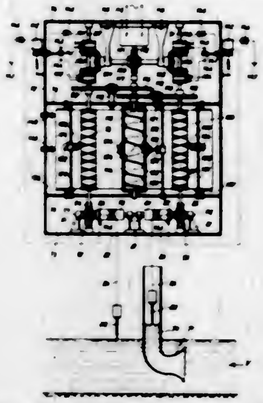
2,657,576
PERFORATION PRODUCTION TESTER
Robert O. Boykin, Jr., Los Angeles, Calif.
Application March 3, 1947, Serial No. 732,097
3 Claims. (Cl. 73—155)



1. An apparatus for measuring the flow of liquids into a cased well bore said apparatus involving: a measuring container adapted to be lowered into the cased well bore below the region at which the liquid enters; deflector means at the upper end of said container yieldably engaging the side walls to deflect liquids into said container; and means defining a passage extending through said container for by-passing any gaseous production originating below said container.

2,657,577
APPARATUS FOR MEASURING THE LEVEL OF LIQUIDS
Olaf Falk, Oslo, Norway, assignor to Askania-Werke Aktiengesellschaft, Berlin, Friedenau, Germany, a corporation of Germany
Application November 25, 1949, Serial No. 129,241
5 Claims. (Cl. 73—212)

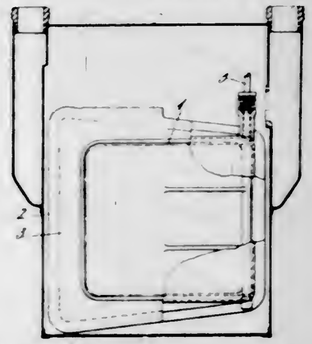
2. An apparatus for measuring the level, the velocity, and the volume of an electrically conductive liquid flowing through a channel, comprising in combination, a Pitot tube; two liquid level measuring apparatus, one for measuring the level of the flowing liquid, the other for measuring the level of the liquid in said Pitot tube, each of these two apparatus comprising a stationary revolvable shaft, an insulating drum rigidly connected to said stationary shaft, a metallic wire having an end portion wound on said drum, a contact rod suspended on the other end of said wire, a slip ring on said drum, connected to said wire portion, a fixed brush engaging said slip ring, a relay having a coil, electric circuit means comprising means permanently in contact with said liquid, said contact rod, said wire, said slip ring, said brush, said relay coil, and a current source, reversible rotary driving means for said stationary shaft connected with said relay for controlling the direction of rotation of said shaft for lowering said contact rod when said circuit means are not current-carrying and for raising said contact rod when said circuit means are current-carrying, an actuating drum operatively connected with said insulating drum to be rotated therewith, a stylus-carrying slide guided for movement in a direction parallel to the rotation axis of said actuating drum; a third actuating drum operatively connected with the actuating drum of the apparatus measuring the



level of the liquid to be rotated with said last mentioned drum, a helicoidal groove having a parabolic pitch on said third drum; a sleeve coaxial with and surrounding said third drum and operatively connected with the actuating drum of the apparatus measuring the level of the liquid in said Pitot tube so as to be rotated with said actuating drum, said sleeve having a longitudinal slot; a ring surrounding said sleeve and being coaxial slidable thereon and having a circumferential groove; a pin being fixed to said ring, traversing said longitudinal slot and engaging the groove on the third actuating drum, a third stylus-carrying slide guided to move parallel to the rotation axis of said third drum and engaging said circumferential groove, a recorder-tape arranged for engagement by the stylus of said three stylus-carrying slides, and means for advancing said recorder-tape in a direction substantially perpendicular to the paths of said stylus-carrying slides.

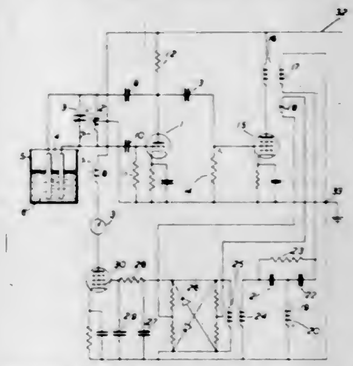
2,657,578
DRY GAS METER
Edward Butterworth and Eric John Hinchcliffe, Farnworth, England, assignors to Begwaco Meters Limited, Farnworth, England, a British company
Application July 20, 1951, Serial No. 237,694
Claims priority, application Great Britain May 9, 1951
1 Claim. (Cl. 73—263)

A dry gas meter, comprising in combination, two gas measuring chambers, a diaphragm in each gas measuring chamber dividing it into similar compartments, each diaphragm comprising a centrally located rectangular rigid portion and a surrounding portion of flexible material connected to said rigid rectangular portion and to walls of the gas measuring chamber, each compartment being narrower at one end than the other and the wider end of each compartment being deeper than the other end and having walls which make an angle to one another so that the flexible part of the diaphragm can rest on such walls in its extreme positions, a flag rod



extending up through each measuring chamber at its narrow end and having the rigid portion of the diaphragm in such chamber connected thereto, the area of flexible material around the rigid portion of each diaphragm being much smaller at the pivoted end of the diaphragm than at the free end and at such free end being insufficient to form folds or pockets but sufficient only to rest freely on the walls of the measuring chamber in the extreme positions of the diaphragm.

2,657,579
LIQUID LEVEL INDICATING DEVICE
Frederick Roger Milsom, Boreham Wood, England, assignor to S. Smith & Sons (England) Limited, London, and Furzehill Laboratories Limited, Boreham Wood, England,
Application February 4, 1952, Serial No. 269,869
5 Claims. (Cl. 73—304)



1. A device for giving a substantially continuous indication of the quantity of liquid in a container comprising a tank, a plurality of plates distributed throughout said tank, and a liquid of variable quantity within said tank, said liquid covering said plates in variable amount whereby said plates and liquid define a capacitive impedance of variable magnitude an electric oscillator, a frequency-determining circuit for said

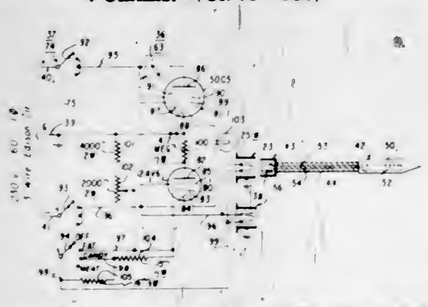
oscillator of which the variable capacitive impedance forms part, an inductor, said inductor also forming part of said frequency-determining circuit, a variable permeability ferro-magnetic core for said inductor, a control winding upon said core, variation of a current through the control winding serving to vary the impedance of the inductor, a buffer stage to the input of which is applied the output from the oscillator, an electric filter circuit with a sharp cut-off to the input of which is applied the output from the buffer stage, a rectifier adapted to rectify the output from said filter, and means to provide a current through the control winding in accordance with the output from said rectifier, said means being such that any tendency of the frequency of the oscillator to vary from the cut-off frequency of the filter upon variation of the impedance is opposed by appropriate variation of the inductance of the inductor, and a meter to indicate the magnitude of said current, the deflection of the meter thus providing an indication of the magnitude of the variable impedance.

2,657,580

MULTIRANGE RESISTANCE THERMOMETER

George W. Schroeder, Louisville, Ky., assignor to General Electric Company, a corporation of New York

Application November 2, 1951, Serial No. 254,558
7 Claims. (Cl. 73—362)



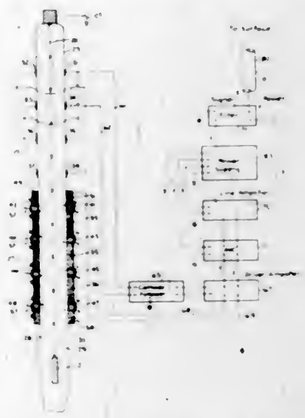
1. An electric temperature indicating system comprising a single phase alternating current source of the three-wire Edison type including two outside conductors and a neutral conductor, a first resistor, a first electron discharge tube including an anode and a cathode and a grid, a connection via said first resistor between said neutral conductor and the anode of said first tube, a connection between one of said outside conductors and the grid of said first tube, a second resistor having a substantial positive temperature coefficient of resistance, a connection via said second resistor between said one outside conductor and the cathode of said first tube establishing a negative bias between the grid and the cathode of said first tube so that said negative bias is increased as the resistance of said second resistor is increased with the temperature thereof in order to reduce the current traversing said first resistor, a second electron discharge tube including an anode and a cathode and a grid, a connection between the other of said outside conductors and the anode of said second tube, a connection between said neutral conductor and the cathode of said second tube, a meter included in the anode-cathode circuit of said second tube and calibrated in terms of the temperature of said second resistor, and a connection via said first resistor between said neutral conductor and the grid of said second tube establishing a negative bias between the grid and the cathode of said second tube so that said last-mentioned negative bias is reduced as the current traversing said first resistor is reduced in order to increase the current traversing said meter.

2,657,581

GRAVITY METER

Charles H. Fay and Richard R. Goodell, Houston, Tex., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application July 24, 1950, Serial No. 175,542
4 Claims. (Cl. 73—382)



1. A gravity meter comprising a string, a mass suspended thereon, means for maintaining said string in oscillation at its natural frequency for a predetermined mode of oscillation, said means comprising a pick-up transducer having a plurality of condenser plates arranged along a line parallel to the string and spaced from each other by a distance equal to the distance between two adjacent nodes on said string for said predetermined mode of oscillation, circuit means having said plates connected thereto in parallel and adapted to produce upon oscillation of said string a voltage oscillating at the frequency of said string, amplifier means energized by said oscillating voltage, a driving transducer comprising a plurality of magnets arranged along a line parallel to the string in the vertical plane passing through said string and said condenser plates, and coil means surrounding said magnets, said coil means being energized by the output of said amplifier means to cause said magnets to apply to said string a force sufficient to maintain said string in oscillation at its natural frequency for said predetermined mode of oscillation, and metering means energized by said oscillating voltage for measuring the frequency thereof.

2,657,582

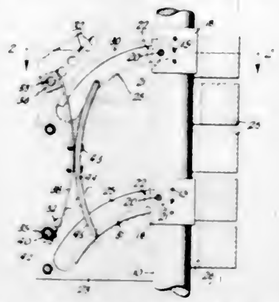
MECHANISM FOR PRODUCING GYRATORY MOTION

William C. Conkling, Lockport, N. Y., assignor to Richmond Manufacturing Company, Lockport, N. Y., a corporation of New York

Application September 27, 1950, Serial No. 186,958
9 Claims. (Cl. 74—87)

1. A mechanism for producing gyratory motion, comprising a vertical shaft, a pair of vertical plates flanking said shaft, a vertically elongated weight connecting said plates and arranged adjacent said shaft in the static condition of the mechanism, means for guiding said plates to

cause an upward movement of said weight away from said shaft, and a stop interposed between said plates on the side of said shaft opposite



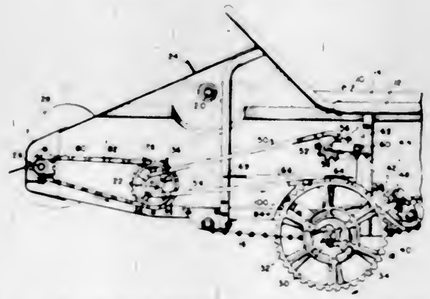
from said weight and arranged to limit the horizontal movement of said weight away from said shaft.

2,657,583

MANURE SPREADER DRIVE MECHANISM

Leonard B. Neighbour, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application August 23, 1951, Serial No. 243,319
10 Claims. (Cl. 74—221)



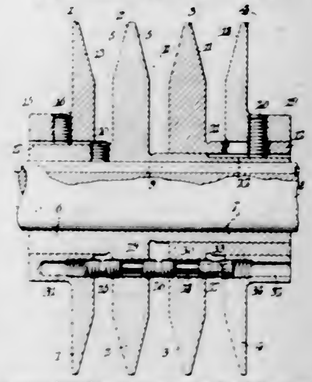
1. In a manure spreader having a longitudinal body including an upright side wall, the combination including: a driving sprocket alongside the side wall; means carrying the driving sprocket on the body for rotation about a fixed axis normal to the side wall and including provision for restraining the drive sprocket against lateral displacement relative to the side wall; a driven sprocket coplanar with and spaced to one side of the driving sprocket; means carrying the driven sprocket on the body for rotation on a fixed axis normal to the side wall and including provision for restraining the driven sprocket against displacement out of the plane of the driving sprocket; a first idler coplanar with and spaced to the other side of the driving sprocket; means carrying the first idler on the body for rotation on a fixed axis normal to the side wall and including provision for restraining the first idler against displacement out of the plane of the driving and driven sprockets; a second idler sprocket coplanar with the aforesaid sprockets and spaced from the driving sprocket intermediate the first idler sprocket and the driven sprocket; means carrying the second idler sprocket on the body for movement toward and away from and in the plane of the driving sprocket; means biasing the second idler sprocket normally away from the driving sprocket; an endless drive chain trained about the driven sprocket and the first and second idler sprockets and having a run thereof passing over and normally engaging the driving sprocket; and means movable on the body in the plane of the driving sprocket and engageable with said run of the chain intermediate the driven and first idler sprockets for moving said run from engagement with the driving sprocket.

2,657,584

PULLEY

William A. Williams, Philadelphia, Pa., assignor to The American Pulley Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 14, 1950, Serial No. 144,047
9 Claims. (Cl. 74—230.17)



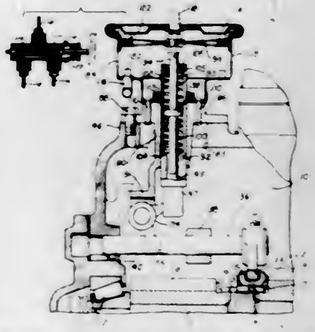
3. In a multiple groove variable pitch pulley, a plurality of flange components all mounted against relative rotation upon a shaft with capacity to be shifted therealong, axially-aligned one piece screw elements with oppositely threaded ends engaged in aligned holes correspondingly-tapped from opposite ends in respectively-adjacent flanges; and means connecting the screw elements for rotation together, with capacity to shift axially relative to each other incident to adjustment of the pulley.

2,657,585

ACTUATOR FOR SPEED CHANGING MECHANISM

Ivor H. Williams, Birmingham, and Ralph K. Super, Detroit, Mich., assignors to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio

Original application September 3, 1943, Serial No. 501,172. Divided and this application February 21, 1946, Serial No. 649,308
14 Claims. (Cl. 74—364)



1. In actuating means for a shiftable gear ratio selecting member, a supporting member,

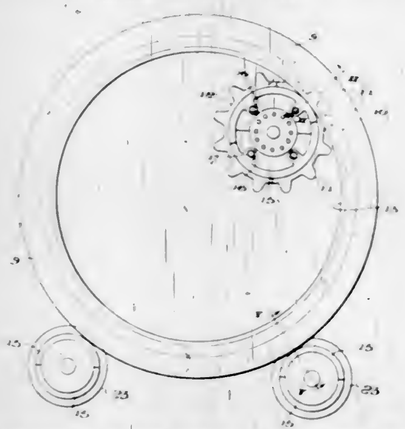
a reciprocable fork shifting rail mounted on said supporting member, a reversibly operable power actuated member, means limiting travel of said power actuated member to a predetermined distance in either direction, and connecting means between said power actuated member and rail to transmit controlled forces of different magnitudes in immediate sequence to said rail, including means carried by the rail rendered effective during movement of said power actuated member in either direction and operable after conclusion of said movement of said power actuated member to apply a final reduced force to continue movement of the rail in said direction, said last-named means comprising spring means housed within a tubular portion of the fork shifting rail.

2,657,586

DRIVING AND SUPPORTING DEVICE FOR ROTATABLE MEMBERS

John Chestley, Volant, Pa.

Application April 3, 1952, Serial No. 280,213
6 Claims. (Cl. 74—460)



1. A sprocket wheel having a peripheral shoulder adjacent to one radial face thereof, an annular row of radially-projecting sprocket teeth adjacent to the other radial face of the wheel, and a wear collar removably connected in encircling relation to said shoulder, for rolling engagement with a rim member that has axially projecting teeth engageable with the sprocket teeth, the said shoulder and the radial sprocket teeth being respectively disposed mainly to one side of the diametral mid plane of the sprocket wheel.

2,657,587

SPEED CONTROLLABLE DRIVE WITH ELECTROMAGNETIC GEAR COUPLINGS

Paul Volk, Erlangen, and Hans Spiesecke, Frankfurt am Main, Germany, assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany

Application April 6, 1951, Serial No. 219,614
6 Claims. (Cl. 74—472)

1. A speed-controllable drive, comprising a pole-switchable electric motor of adjustable speed, an output shaft, a speed-change gear transmission connecting said shaft with said motor and having selectively operable electromagnetic coupling means for adjusting the transmission ratio, a multi-position speed control switch having contact means connected with said motor for pole-switching said motor to adjust the motor speed and having contact means connected with said coupling means for adjusting said ratio in a given correlation with the motor speed, and a selective master switch having a "run" position and a "brake" position, said master switch having first contact means and second contact means, said first contact means being series connected with said coupling means and with said control switch and closed in said "run" position to then permit speed selective control of said motor by



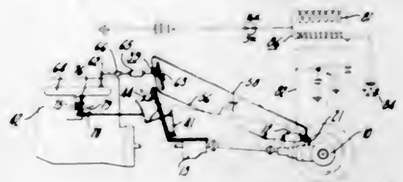
said control switch, said gear transmission comprising a gear step with two selective speed ratios and said coupling means having two couplings in said gear step selectively actuatable in respective different positions of said control switch, said two couplings being both connected with said second contact means of said master switch and said second contact means being closed in said "brake" position to then simultaneously actuate said two couplings.

2,657,588

TRANSMISSION OPERATING MECHANISM

Albert E. Wilson, South Bend, Ind., and Henry D. Hukill, Cleveland, Ohio, assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application September 11, 1944, Serial No. 553,524
7 Claims. (Cl. 74—472)



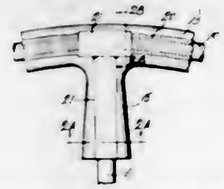
1. In an automotive vehicle provided with a change-speed transmission, an internal combustion engine and a carburetor for in part controlling the operation of the engine, said carburetor including a throttle valve operative in part to control the degree of gaseous pressure within the intake manifold of the engine and to control the speed of the engine; power means for operating said transmission comprising a double-acting pressure differential operated motor having a power element operably connected to the transmission, a selector valve for controlling the energization of said motor, air transmitting means interconnecting the intake manifold of the engine, the selector valve and the motor, and a double-acting three-stage operating force transmitting means connecting the aforementioned power element with the transmission, said force transmitting means including a rod connected to the transmission and further including yieldable means of a certain strength concentrically mounted with respect to and abutting a portion of said rod, said force transmitting means being so constructed that with an operation of the selector valve there results a vacuum energization of the motor to effect one of the stages of operation of the force transmitting means, that is, a compression of the yieldable means, another stage of operation of said force transmitting means being then effected by a closing of the throttle valve to reduce the torque of the engine and yet another stage of operation of said force transmitting means being subsequently effected when the engine speed is such as to effect a synchronization of the transmission gears to be meshed.

2,657,589

MOLDED DECORATIVE STEERING WHEEL

Frederick W. Sampson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 5, 1950, Serial No. 188,505
3 Claims. (Cl. 74—552)



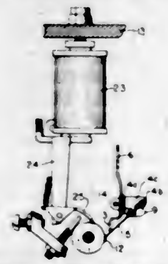
1. A steering wheel comprising in combination: a reinforcing metal spider including a metal ring and a plurality of spoke members, a decorative covering of flexible wire wrapped around at least a portion of the ring for concealing that portion of the ring, and a transparent body molded directly to said covering, said body having such a rounded cross section so as to magnify the apparent turns of the wire when viewed through said transparent body.

2,657,590

DOUBLE DOG DETENT FOR TWO-MOTION SWITCHES

Robert L. Huffman, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application May 3, 1949, Serial No. 91,096
1 Claim. (Cl. 74—577)



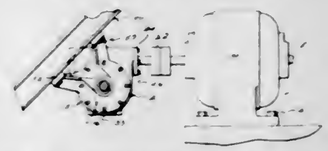
The combination with a switch shaft having vertical selecting and release movements and rotary selecting and release movements and having a first series of teeth extending around the shaft and a second series of teeth extending lengthwise thereof, of a vertical detent for engaging said first teeth to hold said shaft in its vertical selecting positions, a rotary detent comprising a straight flexible spring secured rigidly to said vertical detent at one end of said spring and engaging said second teeth at the other end thereof to hold said shaft in its rotary selecting positions, a backstop for said spring detent integral with said vertical detent and positioned between said ends of said spring detent, said spring being tensioned against said teeth at said one end and against said backstop intermediate said ends, said spring detent being movably flexed by said second teeth during rotary selecting movement of said shaft, said vertical detent being substantially independent of any flexing movement of the spring detent, and shaft release means for moving said vertical detent away from engagement with said first teeth, said backstop moving with said vertical detent to thereby remove said rotary detent from engagement with said rotary teeth whereby said rotary detent is movable with said vertical detent as a unit by means of the backstop when the vertical detent is removed from engagement with said first teeth to thereby release said shaft.

2,657,591

POWER TRANSMITTING MECHANISM

Henry Frank Kaelin, Los Angeles, Calif.

Application April 13, 1950, Serial No. 155,645
8 Claims. (Cl. 74—606)



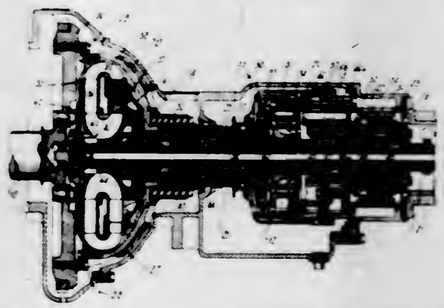
1. A power transmission of the character described including, a stationary shell, a drive shaft rotatably supported by the shell with a portion within the shell and a power receiving end portion projecting from the exterior of the shell, a driven shaft, supporting means for the driven shaft including, heads applicable to the shell and rotatably supporting the driven shaft with a portion within the shell and a portion projecting from the assembly of the shell and heads, means releasably securing the heads to the shell, and projections on the heads applicable to a support, the heads being applicable to the shell to be held by the last mentioned means in various positions about the axis of the driven shaft to vary the direction in which the projections project from said assembly, and a drive between the shafts and located wholly within said assembly.

2,657,592

FLUID TRANSMISSION

Richard T. Burnett, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application December 22, 1947, Serial No. 793,233
8 Claims. (Cl. 74—677)



1. A transmission comprising driving and driven shafts, a torque multiplying planetary gear trains having a planet carrier mounting

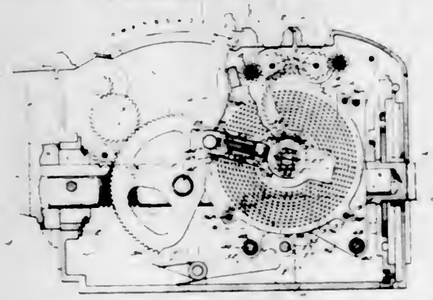
pinions, a ring and two sun gears meshing with the pinions, said driven shaft connected to the planet carrier, an infinitely variable torque multiplying device connected to one of the sun gears, a differential gear set connected to said driving shaft and having a connection to said ring gear and to said device for dividing torque between said ring gear and device, and a one way brake connected to the other of said sun gears for restraining the same against rotation in one direction.

2,657,593

DIFFERENTIAL ACTUATOR

Francis J. Rouan, Darien, Conn., Walter J. Hanson, Port Chester, N. Y., and Alva G. Russell, Stamford, Conn., assignors to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware

Application November 3, 1950, Serial No. 193,814
5 Claims. (Cl. 74—750)



1. In a device for actuating a register wheel in accordance with a selected set value and comprising, a stationary gear having circular rows of varying numbers of teeth concentrically grouped relative to the face thereof, and a rotatable crown gear concentrically positioned within the innermost row of teeth, a shaft having a settable pinion rotative therewith and longitudinally adjustable thereon relative to a selected row of teeth of the stationary gear, transmission gearing meshing with a register wheel and driven by the crown gear, a pinion meshing with the crown gear and fixed to said shaft, and means to move the shaft through a plane normal to its own axis of rotation, whereby the settable pinion will be moved around the teeth of the stationary gear, and whereby the crown gear will be driven by the pinion meshed therewith in accordance with the difference in the numbers of teeth of the crown gear and selected row of teeth of the actuator gear.

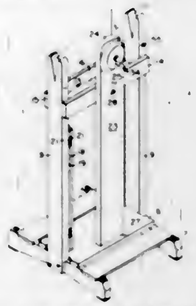
2,657,594

PORTABLE SAW-FILING CLAMP

Bert Frazier, Pittsburgh, Pa.

Application September 9, 1952, Serial No. 308,608
10 Claims. (Cl. 76—78)

1. A portable saw-filing stand, comprising a flat horizontal base-piece, a four-footed support for said base-piece, two upright lateral stanchions rigidly carried by said horizontal base-piece and its four-footed support, the top of each of said stanchions having a crosswise-extending V-shaped notch in it and being at a height suitable for sharpening a handsaw, a convenience-till secured between the two stanchions in a position below said notches, said till comprising front and back side-pieces and a bottom piece and also serving as a rigid brace for said stanchions, a pair of separate flat removable front and back handsaw clamping-pieces adapted to be tightly pounded down into said V-shaped notches with a handsaw between them, a means for removably carrying said pair of handsaw clamping-pieces on the stand when they are not extending across between said stanchions in their operative positions in said notches, a flat vertically adjustable upstanding centrally disposed piece having a rounded top end and having one or more vertical-adjustment front-and-back-extending holes therein, a guiding-means for guiding the centrally disposed piece in its vertical adjustment, a bolt extending forwardly from the front side-piece of said till in a position adapted to extend through a lowermost vertical-adjustment hole or holes in said vertically adjustable piece and having a nut for holding said piece



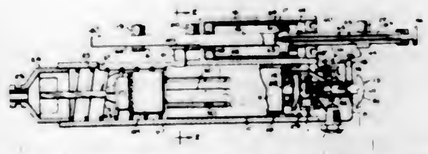
tightly against the front side-piece of said till at either a height suitable for sharpening a circular saw or a lower height which brings the top of the vertically adjustable piece out of the way when a handsaw is being sharpened, a separate circular-saw clamp-piece having a rounded top end and having one or more radial-adjustment front-and-back-extending holes therein, and a circular-saw clamping-bolt adapted to extend in any vertical adjustment through an uppermost vertical-adjustment hole or holes in said centrally disposed piece, through the central hole of a circular saw of any one of assorted sizes, and in any radial adjustment through a radial-adjustment hole or holes in the circular-saw clamp-piece, according to the size of circular saw which is to be sharpened.

2,657,595

PRESSURE FLUID OPERATED TOOL WITH PRESSURE FLUID CONTROL FEED

Ernest H. Shaff, Spring Lake, Mich., assignor to Keller Tool Company, Grand Haven, Mich., a corporation of Michigan

Application August 17, 1949, Serial No. 110,798
6 Claims. (Cl. 77—33.5)



1. A pressure fluid operated tool comprising, in combination, a rotary tool spindle, means for driving said spindle, a cylinder in coaxial alinement with said spindle, a plunger slidably mounted in said cylinder and operatively connected with said spindle to produce longitudinal movement thereof, means for controlling the operation of said spindle drive means and for controlling the supply of pressure fluid into said cylinder behind said plunger to advance said plunger and said spindle, the latter means including a valve normally biased toward closed position, and further including means for moving said valve to open position, a latch device automatically operable to hold said valve in open position, a control member arranged for movement by said plunger at a predetermined point in the advancing movement thereof to cause said latch device to release said valve for movement into closed position, said cylinder having an exhaust passage therein providing continuous restricted communication with the atmosphere and effective to permit release of fluid pressure in said cylinder behind said plunger when said valve means is closed, and spring means interposed between said cylinder and said plunger, said spring means being compressed upon advancement of said plunger and operative to automatically restore said parts to initial position upon reduction of fluid pressure in said cylinder due to closing of said valve.

2,657,596

LENS DRILLING MACHINE

Justo Antonio de Armas, Havana, Cuba

Application August 14, 1950, Serial No. 179,220
12 Claims. (Cl. 77—55)



1. A lens drilling machine comprising a support including work-holding means, a drill carriage supported by said support for movement relative to said work-holding means, said drill carriage including a drill-carrying shaft, means for moving said drill carriage between an operative position with the drill shaft in close juxtaposition to the work in said holding means and an inoperative position spaced from the work-holding means, means resiliently feeding the drill shaft to the work in said holding means when said drill shaft is in operative position and mechanism for progressively limiting the resilient feeding of said drill shaft toward the work in said holding means when said carriage is moved to operative position.

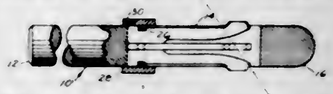
2,657,597

DEBURRING AND CHAMFERING TOOL

George H. Pickering and Anthony J. Kuffner, Detroit, Mich.

Application May 25, 1950, Serial No. 164,094
4 Claims. (Cl. 77—73.5)

1. A machine tool comprising a bit having a shank, a pilot and a body between the shank and the pilot provided with diametral transversely disposed slots, a pair of bifurcated flexible blades arranged one in each slot, interlocking shanks on the blades, means for rigidly holding the shanks of the blades in the slots, projections on the bifurcated ends of the blades and reversely inclined cutting edges on each of the projections.

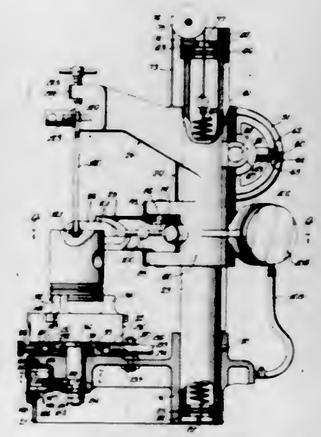


2,657,598

KNURLING MACHINE

Ralph R. Teetor, Hagerstown, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana

Application February 6, 1948, Serial No. 6,635
5 Claims. (Cl. 80—5.1)



1. A machine for knurling generally cylindrical hollow work pieces, comprising a base, a work holder rotatably mounted on said base, a column mounted on said base on an axis parallel to the axis of said work holder, a knurling head mounted on said column and having a tool supporting arm and a work supporting arm extending laterally from said head toward the work, a knurling tool carried by said tool supporting arm, an anvil carried by said work supporting arm, one of said arms being rigid with said head and the other arm being swingably mounted on said head for movement in a plane perpendicular to the axis of the work, and means reacting against said head for swinging said other arm toward said one arm to grip the wall of the work piece between said knurling tool and said anvil, said knurling head being freely rotatable on said column for equaling effect to permit the work to be gripped by said knurling tool and anvil by operation of said means irrespective of the position of the gripped portion circumferentially of the column.

2,657,599

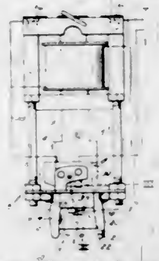
SOLENOID OPERATED CLOSURE REMOVER FOR BOTTLES WITH AUTOMATIC CLOSURE EJECTORS

Donald H. Packer, Toledo, Ohio

Application August 15, 1952, Serial No. 304,627
4 Claims. (Cl. 81—3.2)

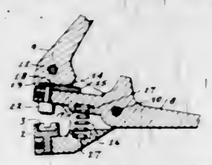
1. A closure remover for containers wherein the closure is a disk with a peripheral flange depending therefrom in holding relation with the container, said remover comprising a seat provided with a container closure directing guide

portion and a central slideway therethru, there being a rim portion downwardly extending from the slideway and having lateral clearance relatively thereto, a pin in the slideway adapted to extend downward beyond the rim, a switch element adapted to be upwardly thrust from the seat by positioning a container-carried closure in the seat, a contact in position to be engaged by the element into closing relation of a switch formed by said element and contact, an electric circuit from the switch including a solenoid coil, a core actuable by the energized coil for move-



ment relatively to the seat, grapple means slidably mounted in association with the guide portion of the seat, said grapple means including an arm connected to the core and provided with a jaw shiftable to engage the closure disk flange and pull the flange upward to flex the disk central portion against the rim portion with the central portion thereby bowed away from the clearance and free of the pin and thereby de-energizing the coil in advance of removing the container from the guide, whereby upon lowering the container the downdropped grapple means kicks the released closure clear of the container.

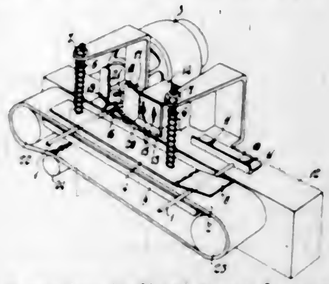
2,657,600
SEALING TOOL
Hans F. Stoffel, Scarsdale, N. Y.
Application December 7, 1950, Serial No. 199,615
1 Claim. (Cl. 81—9.1)



A hand sealing tool for compressing a seal of soft ductile metal, comprising a yoke carrying a die member having a cup shaped cavity adapted for moulding said seal, a lever pivoted to said yoke and carrying a punch arranged opposite said die member to cooperate with said die member, a cam lever pivoted to said yoke and acting against said lever to force said punch and said die member together, and a removable thrust plate between said lever and said cam lever, said thrust plate being held in place by said punch.

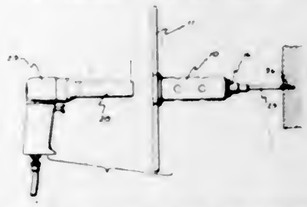
2,657,601
INSULATION STRIPPING DEVICE
Leslie F. Bentley, Cambridge, England, assignor to Pye Limited, Cambridge, England, a British company
Application March 29, 1950, Serial No. 152,643
Claims priority, application Great Britain March 31, 1949
3 Claims. (Cl. 81—9.51)

1. Apparatus for stripping the insulation from the end of an insulated wire, comprising a stationary cutting blade, means for advancing and simultaneously rotating an insulated wire against said blade to cut a groove in the insulation at the position from which the stripping is to commence, said advancing means also moving said wire beyond the blade after the insulation has been cut, and a stripping member located beyond said blade with respect to the path of movement of the wire, said stripping member



having a portion inclined away from said blade and from the advancing means, and the end of the stripping member adjacent the cutting blade being aligned therewith and located to engage in said cut groove as the advancing means moves said wire beyond said blade, whereby the portion of insulation to be stripped is removed as a complete tube during further onward movement of the wire by said advancing means.

2,657,602
SCREW REMOVING TOOL
Charles R. Sumner, Chandler, Ariz.
Application December 29, 1951, Serial No. 264,080
3 Claims. (Cl. 81—52.35)

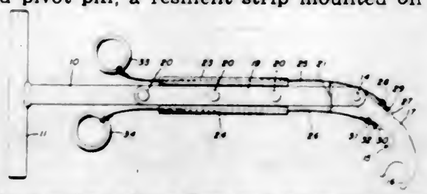


1. A screw removing tool comprising, a body portion, a solid operating plunger mounted for axial movement in said body portion, resilient means secured between said plunger and body portion for limiting said axial movement of said plunger relative to said body portion, means for rigidly attaching a screw driver bit to the outer end of said plunger, socket means in said body portion for supporting a power operated hammer so as to apply axial hammer blows to the inner end of said plunger, interengaging abutment surfaces on said body portion and said plunger, and handle means fixed on said body portion to effect manual rotation of said tool and screw driver bit while applying power to said hammer on the inner end of said plunger.

2,657,603
FINGER CONTROL ATTACHMENT WRENCH
Herman Buford Evans, United States Navy
Application September 7, 1951, Serial No. 245,623
2 Claims. (Cl. 81—53)
(Granted under Title 35, U. S. Code (1952), sec. 266)

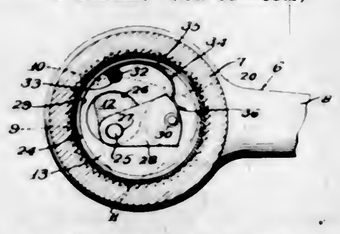
2. A tool for removing threaded objects in relatively inaccessible places comprising an elongated

body member, wrench means, means detachably securing said wrench means to one end of said body member for pivotal movement, said detachable securing means including a pivot pin mounted on said one end of said body member, said wrench means having an aperture therein for receiving said pivot pin, a resilient strip mounted on said



body member with a free end extending over but flexed from said one end of said body member and having an aperture in said free end adapted to receive the end of said pivot pin when the strip end and body member are moved adjacent each other, and means surrounding a portion of said strip and said body member for maintaining them in said adjacent relation.

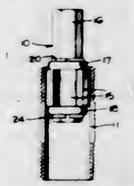
2,657,604
RATCHET WRENCH
Theodore O. Rueb, Chicago, Ill., assignor to The Sherman-Klove Co., Chicago, Ill., a corporation of Delaware
Application September 11, 1952, Serial No. 308,977
4 Claims. (Cl. 81—63.2)



1. A manually operable ratchet tool including a barrel having interior ratchet teeth, a driven member rotatably mounted in the barrel having a transverse slot dividing the same into two end portions, an eccentrically positioned bearing post in the slot connecting the two end portions, a pawl pivotally engaging said post and having oppositely disposed toothed projections for engagement with the teeth in the barrel, an overthrow lever pivotally mounted in the barrel with its free end in engagement with the pawl for swinging the pawl, a curved spring slidably mounted in the barrel and engaging with the inner wall thereof, one end of said spring being adapted to engage with the end of the lever to throw it to adjusted positions, a disc rotatably mounted in the barrel, and a pin projecting from the disc and engaging with the spring for sliding the spring.

2,657,605
INTERNAL PIPE WRENCH
Everett C. Howell, Rialto, Calif.
Application May 15, 1950, Serial No. 161,962
3 Claims. (Cl. 81—72)

1. A tool of the character described for insertion within and for engaging and turning a hollow body, comprising: a central polygonal shank, a plurality of rectangular blocks each having a face thereof with a width somewhat less than the width of a face of the polygonal shank, each of said blocks resting on a corresponding face of the polygonal shank and extending longitudinally and parallel therewith with said block face abutting a corresponding shank face for the full width of said block, and means loosely retaining



said blocks on said shank for limited movement thereon whereby increased rotational movement of said shank in one direction causes the trailing edge only of each rectangular block to increasingly penetrate said body.

2,657,606
ADJUSTING AND LATCH MEANS FOR SLIDABLE SIDE JAW WRENCHES
Kenneth F. Finn, Omaha, Nebr.
Application January 17, 1952, Serial No. 266,983
4 Claims. (Cl. 81—165)

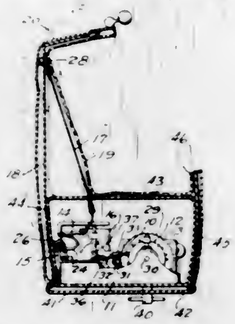


3. In a conventional slidable side jaw wrench provided with a worm and rack form of adjusting means for the slidable jaw, the improvement which includes complementary polygonal formations provided on and extending axially within the worm and on an exterior cooperating surface of a worm-adjusting means, respectively; said worm adjusting means being axially movable from a position in which the polygonal formations are disengaged to a position in which they are engaged; said worm adjusting means including a torque-applying means for rotating said worm, when the polygonal formations are engaged, and for locking the worm and slidable jaw in work-clamping positions; said worm-adjusting means, when the polygonal formations are in disengaged position, being freely rotatable with respect to the worm, so that the worm then may be manually adjusted in the ordinary manner.

2,657,607
MUSIC BOX POCKETBOOK
Bernard Katz and David M. Weisglass, Brooklyn, N. Y.
Application November 9, 1951, Serial No. 255,625
3 Claims. (Cl. 84—95)

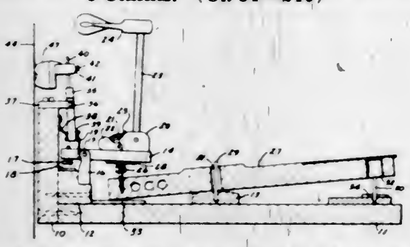
1. A musical handbag comprising a spring motor, a roller having pins thereon operatively connected to the motor, spring fingers positioned to be engaged by the pins of the roller, a spinner

operatively connected to the motor, a base upon which the spring motor, roller, spinner and spring fingers are mounted, an arm pivotally mounted on said base and positioned to be engaged by the spinner, a housing having a cover panel with side panels positioned with the cover panel spaced above the base and the side panels extended to the base, a handbag bottom positioned below said base, handbag side walls extended upwardly from said bottom and between which said housing is



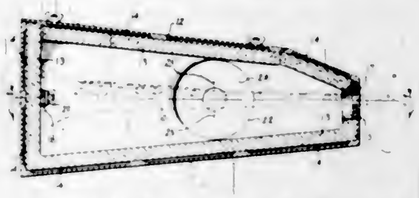
positioned, said side walls having inwardly bent upper edges, fastener elements on the inwardly bent edges of the side walls for holding the handbag closed, a cord extended from the arm in the housing and secured to a side wall of the handbag at a point spaced from the housing whereby upon opening the handbag the arm is actuated for releasing the spinner and music playing elements, a lining in said handbag covering the cord and housing, and a cover enclosing the handbag and extended across the ends thereof.

2,657,608
ACTION FOR UPRIGHT PIANOS
Ralph A. Wolfe, Wichita, Kans.
Application April 25, 1952, Serial No. 284,287
5 Claims. (Cl. 84—240)



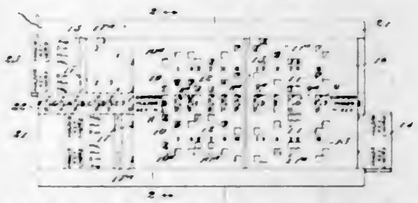
1. A piano action comprising: a fixed frame; an upright damper carrying lever pivotally mounted intermediate its ends on said frame; spring means urging said lever to a normal position in which the damper is in contact with its string; a wippen pivotally mounted intermediate its ends on said frame, the inner end of said wippen being positioned adjacent an end of the damper carrying lever; a spoon carried by said inner end of the wippen for contacting and pivoting the damper carrying lever in a direction to move the damper out of contact with its string when the wippen is pivoted away from its normal position; a hammer supporting butt normally seated on the outer end of said wippen and pivotally secured thereto to afford movement of the hammer toward said string; resilient means normally maintaining the butt in its seated position; a key arm rockably supported intermediate its ends on said frame, the inner end of the arm positioned to directly contact and move the outer end of said wippen when the opposite end of the key arm is depressed; and adjustable means for stopping the pivotal movement of the wippen before the hammer is moved bodily by the wippen into actual string contact.

2,657,609
SOUND DEADENING DEVICE FOR MUSICAL INSTRUMENTS
William E. Strobach, Des Moines, Iowa
Application July 25, 1951, Serial No. 238,484
4 Claims. (Cl. 84—453)



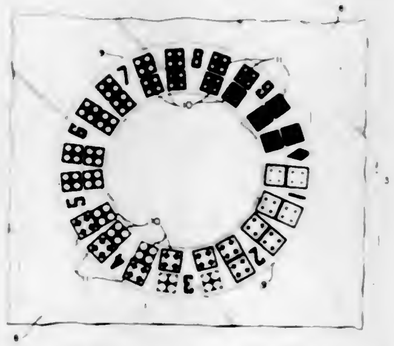
1. A sound deadening device for a musical wind instrument comprising, a case member, sound deadening properties provided in said case member, said case member adapted to enclose a musical wind instrument to mute and muffle the sounds produced thereon, two openings in said case member adapted to provide a means for insertion of the hands of a person playing the enclosed instruments, said openings spaced so that when a person's hands are inserted therein they will be in a normal position for playing the enclosed instrument, and a third opening in said case member to provide a means for the protrusion of the mouthpiece of a musical wind instrument encased therein.

2,657,610
TABULAR DEVICE FOR MUSICAL MODULATION
Walter E. Carran, Jr., Medford, Mass.
Application April 12, 1950, Serial No. 155,531
7 Claims. (Cl. 84—473)



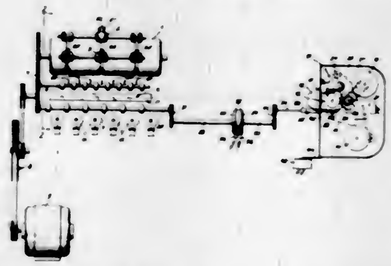
1. A musical slide rule for determining a modulation link between given keys, comprising a base having the notes of chromatic scale marked thereon at regular intervals, adjustable relative to the base a slide having a mark for indicating on the base a distinctive note of one of said given keys, on said slide a series of modulation link indicia representing the chords in a key, said indicia being spaced parallel to the base at the same intervals as the notes in a diatonic scale on the base, and spaced away from the base according to the classification of the chord represented, also adjustable relative to the base a cursor having means for indicating on the base a distinctive note of another of said keys and modulation link indicators disposed selectively to reveal on the slide modulation link indicia which represent chord modulation links between said given keys, whereby the chords common to any two given keys may be determined thereby determining the modulation link between said given keys, said indicators being arranged such that when said mark and said means indicate the same note on the base each of said indicators reveals one of the modulation link indicia.

2,657,611
DOT COMPARATOR
Paul F. Borth, Park Forest, Ill., assignor to R. R. Donnelley & Sons Company, a corporation of Illinois
Application June 13, 1952, Serial No. 293,365
1 Claim. (Cl. 88—14)



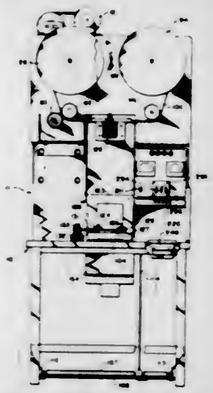
A dot comparator for estimating printed halftone dot areas, comprising: a frame having a base, a magnifying glass mounted in said frame so as to be focused near the bottom of said base, and an annular photographic image of a progressively graded series of half-tone dots having a size and spacing used on printing plates, said image being imbedded in transparent material mounted in the base so that the center of the image is a sight opening near the focal center of said magnifying glass.

2,657,612
CONTROL FOR PHOTOGRAPHIC COPYING APPARATUS
William W. Wightman, Chicago, Ill., assignor to Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application January 10, 1951, Serial No. 205,270
7 Claims. (Cl. 88—24)



1. In a photographic apparatus, the combination of sheet feeding means for successively feeding sheets through a photographic field, a direct current motor for driving said sheet feeding means, direct current supply conductors comprising a switch, a direct-to-alternating-current convertor having its input connected with said conductors under the control of said switch, an electrically energizable instrumentality under the control of sheets fed by and cooperating with said sheet feeding means for photographing sheets fed thereby and connected with the output of said convertor for energization thereby, an electromagnetic relay comprising a relay coil and a relay switch under the control of said relay coil to be closed with energization of said relay coil and connected in series with said motor, a condenser connected in shunt with said relay coil, a resistance connected in series with said relay coil and with said condenser, and circuit connections connecting said motor and relay switch and said relay coil, condenser and resistance with said supply conductors under the control of said first mentioned switch.

2,657,613
PHOTOGRAPHIC PRINTING APPARATUS
Edwin J. Maker and James L. Gibson, Chicago, Ill., assignors to Walgreen Co., Chicago, Ill., a corporation of Illinois
Application January 29, 1947, Serial No. 725,049
5 Claims. (Cl. 88—24)

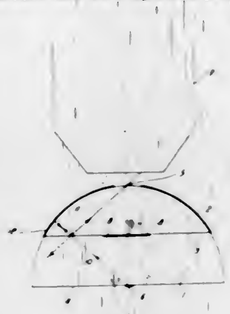


1. In combination, apparatus for the automatic control of exposure in photographic printing apparatus, a printing paper, printing paper feeding means for intermittently advancing the printing paper in predetermined sections, a negative to be printed on sections of said printing paper, a first optical system for reproducing on said printing paper exposed by an image derived from said negative, a second optical system for producing an out-of-focus image of said negative, means controlled by said out-of-focus image for governing the period of printing exposure provided by said first mentioned optical system, a plurality of control means for producing multiple exposures of the same negative, means for selecting one of said control means for synchronous timed operation to thereby effect the printing of a predetermined number of positive prints, and means responsive upon the termination of the individual exposure periods to operate said feeding means for advancing a section of said printing paper into printing position.

2,657,614
PHASE CONTRAST OBSERVATION
Maurice M. Françon, Paris, France, assignor to Centre National de la Recherche Scientifique, Paris, France, a corporation of France
Application June 19, 1950, Serial No. 168,882
4 Claims. (Cl. 88—39)

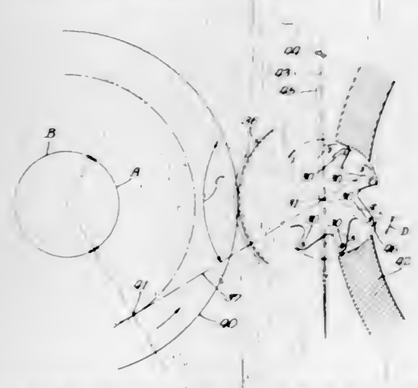
1. An optical phase contrast observation device comprising a first portion of a sphere of trans-

parent material limited by two parallel planes one of which is a diametral plane of said sphere, the other plane being at a distance from the first plane substantially equal to one half of the radius of said sphere, a second portion of a sphere of transparent material similar to that of said first portion, completing said first portion to form a hemisphere, said two sphere portions being assembled to form a hemisphere with a base and a separating surface parallel to said base, a layer of half-transparent, half-reflecting material being inserted between the two sphere portions over the



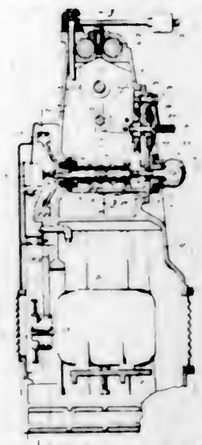
whole of said separating surface, a plane, circular phase plate adapted to produce a difference of phase between light rays passing through it and light rays passing outside said plate, said plate having a central circular opaque spot disposed centrally of said separating surface, the external surface of said second sphere portion being covered by a layer of reflecting material, except for a spot at the apex of the hemisphere, said last named spot having substantially the same measurements as said opaque spot.

2,657,615
SLOTTING MACHINE
Cernyw F. Jones, Economy, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana
Application July 21, 1950, Serial No. 175,267
20 Claims. (Cl. 90—11)



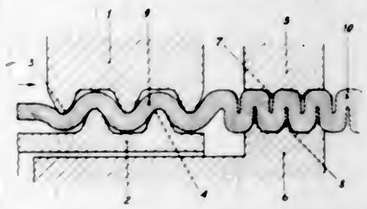
1. A slotting machine comprising a cutter having a series of teeth arranged in an arc about an axis, and means rotatably supporting said cutter on said axis, said means being shiftable bodily in a direction perpendicular to said axis, and mechanism for rocking said cutter and simultaneously shifting said means.

2,657,616
MACHINE TOOL TRANSMISSION AND CONTROL MECHANISM
Joseph B. Armitage, Wauwatosa, and James N. Flannery, West Allis, Wis., assignors to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin
Application September 15, 1947, Serial No. 773,986
3 Claims. (Cl. 90—18)



1. In a speed adjusting and indicating mecnanism for a variable speed power transmission apparatus, a rotatably mounted speed indicating dial, a speed adjusting crank having an actuating handle, said crank being rotatably mounted adjacent to said dial and operatively connected to turn said dial at reduced speed, and latching means arranged to latch said crank with its handle concentric with said dial.

2,657,617
APPARATUS FOR THE COMPRESSION OF THE GROOVES OF HELICALLY GROOVED TUBES AND HOSES
August Carl Hussnigg, Zurich, Switzerland
Application August 5, 1947, Serial No. 766,314
In Switzerland October 10, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires October 10, 1964
2 Claims. (Cl. 93—77)



1. A machine for helically grooving smooth continuous hose and tubing material wound of strip material and fed through the machine in a continuous flow, the said machine comprising in combination rotatable grooving means and rotatable retarding means, each of the said means including two cylindrical wall members concentrically disposed and facing each other radially spaced apart for forming an annular channel therebetween, one wall member of each of said means having an internal thread and the other wall member having an external thread, the threads of the retarding means having a lower pitch than the threads of the grooving means,

the teeth on the two wall members defining the channel of the grooving means being disposed in such special relationship to each other and of such length that the teeth on one wall member extend between respective teeth on the other wall member, the said two means being rotatable in the same direction and disposed spaced apart in the direction of the feed of the material, the grooving means being anterior and the retarding means posterior in the direction of the feed of the material through the machine, whereby material fed through the two channels is helically grooved within the anterior channel and compressed in the direction of travel within the posterior channel.

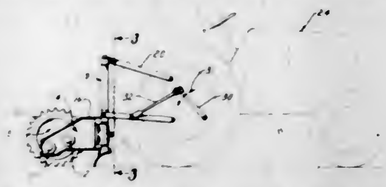
2,657,618
DEVELOPING APPARATUS
Walter Elsbein, Stuttgart Bad Cannstatt, Germany
Application April 17, 1950, Serial No. 156,290
Claims priority, application Germany May 13, 1949
11 Claims. (Cl. 95—89)



1. A device for developing exposed photographic sheet material and for simultaneously transferring an image on to an unexposed transfer sheet material by moistening the materials with a developer liquid and by subsequently pressing the materials into contact one with another, said device comprising a casing adapted to hold the developer liquid therein at a given level, and having an opening therein above such level, an arrangement of contacting rollers within the casing, and guiding means within the casing adapted to guide a plurality of strips in paths from said opening to the point of tangency of the rollers, at least one of said paths extending below the level of the liquid in the casing, said guiding means being constructed and arranged to allow access of liquid to at least one of said strips, and said guiding means extending between strips guided therein and including means extending from such opening to a point adjacent the rolls for engaging and guiding the outsides of strips separated by said last means for preventing contact between the strips at least in the portion of the path between the opening and a point adjacent the level of the liquid.

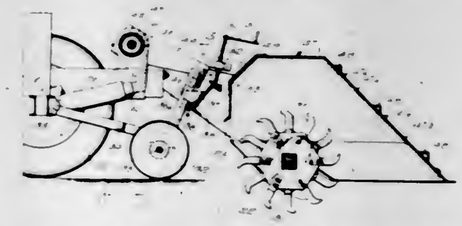
2,657,619
CLOD BREAKER
Lafayette E. Gilreath, Fresno, Calif., assignor to Lyman G. Perkins, Fresno, Calif.
Application October 22, 1948, Serial No. 55,910
3 Claims. (Cl. 97—7)

1. In an earth-working device of the character described, a ground-engaging roller comprising a plurality of rings assembled generally coaxially, a pair of bearing members passing through said rings and spaced a distance apart less than the internal diameter of said rings, said bearing members being mounted on a frame whereby said roller may rotate on said frame and move radially with respect thereto to thereby allow said roller to be supported directly on the ground or on the frame of with some of the weight of the roller supported on the ground and some simultaneously supported on the frame, said frame having mounted thereon spaced pairs of sleeve members, a scraper member having a pair of rods extending there-



through adapted to pass through any one of a pair of said spaced sleeve members, and means for fastening said rods in said sleeve members whereby said scraper member may be supported in differently extending directions with respect to the frame.

2,657,620
ROTARY TILLER
Oscar L. Meeks, Scranton, Pa., assignor, by mesne assignments, to The Sperry Corporation, New York, N. Y., a corporation of Delaware
Application January 8, 1948, Serial No. 1,153
5 Claims. (Cl. 97—40)

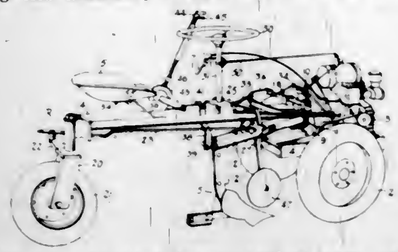


1. In a power driven tiller, a frame structure, a transverse drive shaft journaled in said frame structure, a sleeve member extending concentrically with respect to said shaft and carrying spaced levers thereon for supporting a rotary tiller at the extremities thereof driven from said drive shaft, means for rocking said sleeve member for angularly adjusting said levers and correspondingly controlling the position of said rotary tiller with respect to the surface of the earth, a hood forming a cover for said rotary tiller, a pair of spaced arms pivotally mounted on said drive shaft, connections between said arms and the ends of said hood, a bearing plate connected with each of said spaced levers, adjusting screws carried by said spaced arms and extending in vertical alignment with said bearing plates and adjustable with respect thereto for selectively controlling the angular relation of said spaced arms with respect to said spaced levers and correspondingly controlling the spacial relation of said hood and said rotary tiller.

2,657,621
GARDEN TRACTOR
John J. Kantz, Jr., and Oswald J. Lindell, Rock Creek, Ohio, assignors to The Great Lakes Tractor Company, Rock Creek, Ohio, a corporation of Ohio
Application December 7, 1948, Serial No. 64,004
10 Claims. (Cl. 97—47.04)

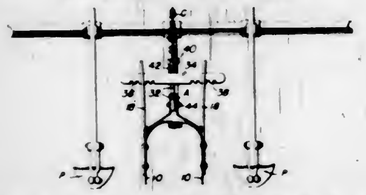
7. In mechanism of the character described, a pair of tractor wheels, framing in association carrying a seat, a wheel with turnable mounting under the rear end of said framing, a foot lever

for steering said wheel, a link between the foot lever and said wheel mounting, said link having a series of holes for adjustable connection to the said wheel mounting, an auxiliary frame under said framing carrying an earth-working tool, a hand lever on said framing for raising and lowering the auxiliary frame and tool, an arm se-



cured to said foot lever, and a cam cage on said auxiliary frame surrounding the free end of said arm and having a convergent top, whereby said arm riding within said cam cage has freedom of lateral movement when the auxiliary frame carrying the tool is raised but is cammed into the convergent top when the auxiliary frame is lowered.

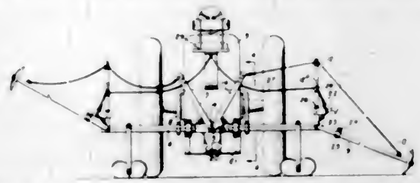
2,657,622
CULTIVATOR SHIELD
Fred E. Knuth, Utica, Nebr.
Application December 26, 1951, Serial No. 263,189
2 Claims. (Cl. 97—188)



1. A cultivator shield comprising a pair of hingedly connected sections having forward and rear end portions, a forward pair of vertical arms fixed to the forward end portions of the sections, a rear pair of arms fixed to the rear end portions of the sections, said arms each having an upper end with a vertical slot therein, forward and rear substantially U-shaped inverted frame members having their ends pivoted to the forward and rear arms respectively, a bolt fixed to and extending upwardly from each frame member, forward and rear gauge bars extending between the forward and rear arms, the ends of the forward bar being received in the slots in the forward arms and the ends of the rear bar being received in the slots in the rear arms, the ends of said bars having spaced notches in their lower edges for selectively receiving the lower edges of the slots they are received in, said bars having central apertures receiving the upper ends of the bolts, coil springs on the upper ends of the bolts engaging the bars to retain the bars engaged with the arms, and nuts threaded on the upper ends of the bolts forming abutments for the springs.

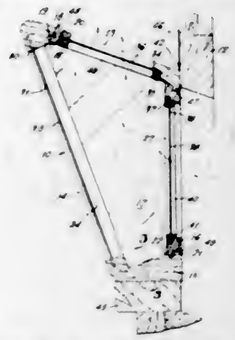
2,657,623
ELEVATING MEANS FOR ROW MARKERS
Benjamin H. Allen, Lamesa, Tex.
Application December 20, 1948, Serial No. 66,157
1 Claim. (Cl. 97—230)

The combination with a tractor having a rear transverse supporting bar vertically movable relative to the tractor, of a marker arm pivoted to one end of said bar for vertical swinging movement between a lowered laterally-extending position and a raised transport position, a bellcrank lever pivotally mounted on the central portion of said bar for vertical swinging movement about a pivot axis extending transversely of said bar, said lever having an upstanding long arm and a short arm joined together at said pivot axis with said long arm disposed on one side of said pivot axis and said short arm on the other



side, a bracket fixed to and extending rearwardly from said tractor below said bar, a link interconnecting said short arm and said bracket to impart upward swinging movement to said long arm of the bellcrank lever from a normal position upon upward movement of said bar, and operating connections between said long arm of the bellcrank and said marker arm for swinging said marker arm upwardly upon upward swinging of said long arm, said operating connections comprising a flexible pull member interconnecting said long arm and said marker arm.

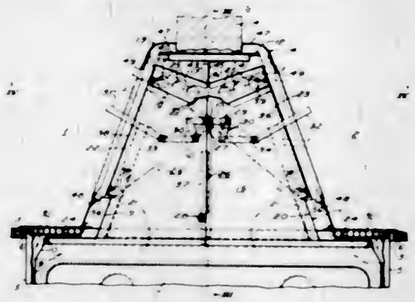
2,657,624
WINDOW VENTILATOR
Arthur Edward Wittenberg, Los Angeles, Calif.
Application October 1, 1948, Serial No. 52,225
5 Claims. (Cl. 98—99.2)



1. A ventilator for double-hung windows comprising an essentially box-like frame defining top, front, end, bottom and back panels, wherein the back and top panels respectively have apertures to admit the free passage of air, the top panel having a longitudinal continuous hinged connection to the front panel, the back panel having a longitudinal continuous hinged connection to the bottom panel and the end panels respectively having longitudinal continuous hinged connections to the front panel, said hinged connections being swingable inwardly whereby the top panel may be folded downwardly, the end panels inwardly and the rear panel forwardly to render the ventilator compact, said hinged connections comprising interfitting cylinder-like longitudinal channels and tongues formed in said panels for air-tight relative foldable movement of said panels, slidable lateral extensions at either side of the ventilator having telescoping

connections with the back panel for engagement in window channels normally provided at either side of a double-hung window, vertical grooves formed in the back panel for reception of the rearmost edges of the side panels, and a downwardly directed lip on the top panel engageable with the back panel in the unfolded position of the ventilator for retaining the rearmost edges of the side panels firmly within said vertical grooves.

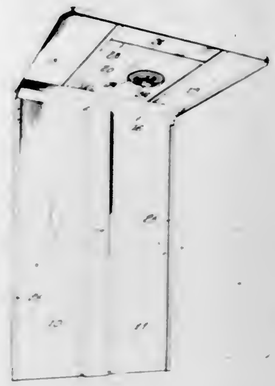
2,657,625
DUAL WALL REGISTER
Lowell L. Smith, Tuckahoe, and Jervis J. Gennari, Yonkers, N. Y., assignors to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa., a corporation of Delaware
Application December 30, 1950, Serial No. 203,689
6 Claims. (Cl. 98—104)



1. In a dual wall register, an inner casing having an open bottom, having end walls, having a top wall joined to said end walls, and having side walls extending between said end walls, the upper edges of said side walls terminating below said top wall to provide opposite air outlet openings, an outer casing having an open bottom and having end walls spaced from said inner casing end walls to form air flow passageways adapted to register with an air flow passage, said outer casing end walls extending above said inner casing end walls, a top wall member positioned above said inner casing top wall and joining said outer casing end walls, grille supporting members spaced from said inner and outer casings, means securing said supporting members to said outer casing end walls, said supporting members having grille receiving openings registering with said air outlet openings, said receiving openings overlapping said passageways between said inner and outer casing end walls for air flow into said passageways, and grille members in said receiving openings.

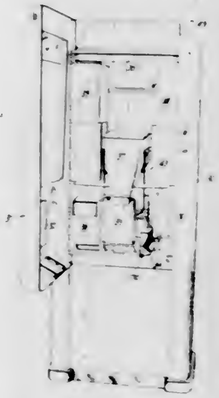
2,657,626
WALL AND CEILING PROTECTOR AND VENTILATOR
Francis R. Sonntag, Dallas, Tex.
Application July 2, 1951, Serial No. 234,689
5 Claims. (Cl. 98—115)

1. In a wall and ceiling protector and ventilator comprising a pair of mounting brackets, each having an upturned flange along its lower edge and provided along its upper edge with a horizontal channel, a wall panel having a downwardly turned flange along its upper edge interengaged with the flange on the lower edge of each of said mounting brackets, a plurality of juxtapositioned ceiling panels having their inner edges disposed in the channels of said mounting brackets, means embracing the outer edge of said wall panels to secure the same to a wall, a center panel concealing the inner edges of said wall panels, a supporting frame embracing the outer



edges of said ceiling panels and holding the same in fixed relation to a ceiling, and a ventilating fan in one of said ceiling panels.

2,657,627
CORN POPPING MACHINE
John Lindstrom, Montclair, and Burgess C. Case, Plainfield, N. J.
Application November 15, 1947, Serial No. 786,190
4 Claims. (Cl. 99—238.2)



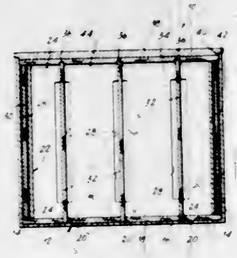
1. In a corn popping machine, means forming a popping chamber adapted to receive a supply of cooking oil and raw corn, electrical means for heating said chamber, an electrically operated coin control mechanism, and an electrical control system comprising a thermostatic switch responsive to the temperature of said chamber for controlling said heating means, means comprising a relay arranged to be momentarily energized on the closing of said thermostatic switch, and a second relay having one pair of contacts in series with said thermostatic switch arranged to be closed on energization of said first named relay and a second pair of contacts in series with said coin control mechanism arranged to be opened on energization of said first named relay.

2,657,628
BEVERAGE DISPENSING APPARATUS
Walter Von Stoeser, North Tonawanda, N. Y., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y., a corporation of Ohio
Application January 9, 1947, Serial No. 720,994
15 Claims. (Cl. 99—275)



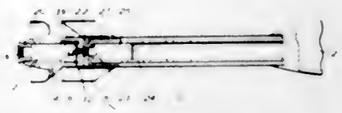
1. A beverage dispensing apparatus comprising a measuring chamber for flavoring liquid for measuring a predetermined quantity of flavoring liquid to be ejected during each dispensing operation, a measuring chamber for carrier liquid for measuring a predetermined quantity of carrier liquid to be ejected during each dispensing operation, a supply source for gas under pressure, means within said measuring chambers for limiting ejection of liquid therefrom to a predetermined amount, means including individual connections from the gas supply source to the measuring chambers actuated by a gas pressure supply for ejecting the liquids from said measuring chambers to a point of delivery, and means for refilling the measuring chambers after each dispensing operation.

2,657,629
WHISKY AGING VAT
Richard B. Gibson, Glencoe, Mo.
Application March 17, 1949, Serial No. 81,955
8 Claims. (Cl. 99—277.1)



1. A device of the type described for aging whiskey, comprising a container of material inert to whiskey having an opening in the upper portion thereof and containing at least one wall, a perforated sleeve-like member of inert material disposed within said container so as to provide a space between it and the wall of the container in communication with the interior of said container, and white oak members disposed within said space adapted to be in free contact with whiskey which may be placed therein for proper aging thereof.

2,657,630
PROJECTILE
Latham Valentine Stewart Blacker, Coldhayes, Liss, England
Application October 24, 1951, Serial No. 252,866
7 Claims. (Cl. 102—49)



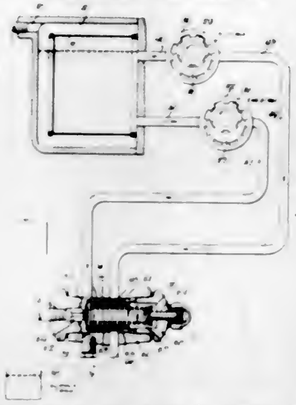
1. In a projectile having a head, a tail and a tube connecting said head and tail the combination of a gas check behind said tail, a strut within said tube adapted to transmit thrust from said gas check to said head, and means, including an explosive charge, within said tube for jettisoning said gas check and strut from said projectile.

2,657,631
LIQUID FUEL PUMP
Fraser Mackie Evans, Acton, London, England, assignor to C. A. V. Limited, Acton, London, England
Application July 26, 1951, Serial No. 238,631
Claims priority, application Great Britain August 16, 1950
6 Claims. (Cl. 103—2)



1. In a variable-delivery liquid fuel injection pump for an internal combustion engine, of the kind having a reciprocatory plunger means slidable in a bore, the combination comprising a spill chamber surrounding the plunger means, passage means adapted to afford communication between the effective end of the plunger means and the spill chamber, a sleeve surrounding the plunger means for controlling communication between the said passage means and the spill chamber, a discharge passage communicating with the spill chamber, throttle means in said discharge passage for restricting flow therein, stop means for determining the position of the sleeve to afford normal pump output by permitting spill to occur towards the end of the plunger stroke, spring means for urging the sleeve towards the said stop means, and piston means operatively associated with the sleeve and exposed to the liquid pressure afforded in the spill chamber by the aforesaid throttle means whereby the sleeve will be moved away from the stop means and thereby reduce the effective stroke of the plunger when said pressure overcomes the force of the spring means.

2,657,632
TWO-STAGE FUEL UNIT
William Ray Kiefer, Rockford, Ill., assignor to Sundstrand Machine Tool Co., a corporation of Illinois
Application February 16, 1951, Serial No. 211,244
8 Claims. (Cl. 103—6)



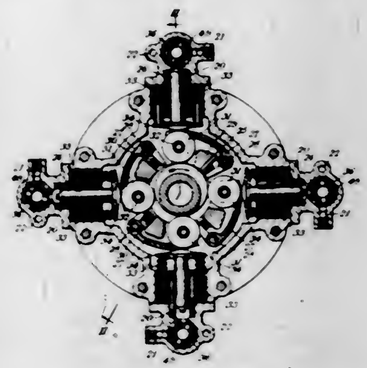
1. A two-stage oil burner pump having, in combination, a first stage pumping means, a second stage pumping means, a reservoir to which the inlet to the second stage pumping means is connected below the level at which the oil stands during normal operating conditions, a supply tank connection leading to said reservoir above the normal operating level of the oil therein, an inlet connection for the first stage pumping means communicating with said reservoir at the normal oil level to enable the first stage pumping means to withdraw excess oil and any air above said level, and a discharge connection from the first stage pumping means for returning excess oil and air to the supply tank.

2,657,633
PUMP CONSTRUCTION
John Gordon Baker and Lyell C. Tullis, Evansville, and Louis T. Watry, Madison, Wis., assignors to Baker Manufacturing Company, Evansville, Wis., a corporation of Wisconsin
Application July 2, 1948, Serial No. 36,654
12 Claims. (Cl. 103—8)



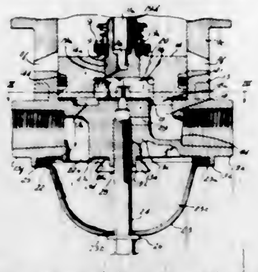
1. In a pitless pump construction, the combination of, a tubular casing having upper and lower sections connected by a sleeve with a laterally opening water outlet therein, axially spaced internal cylindrical surfaces in said sleeve smaller in diameter than the interior of said upper casing section and disposed above and below said outlet, an abutment in said sleeve facing axially and upwardly, a drop pipe, a spool supporting said pipe and received in said sleeve against said abutment so as to be supported thereby, seal rings of yieldable material extending around said spool and respectively engageable with said surfaces when the spool engages said abutment, and centering means rigid with said spool above said seal rings projecting outwardly therefrom beyond the outer periphery of the rings but short of the wall of the upper casing section so as to engage the casing wall during insertion and removal of the spool whereby to prevent rubbing of said seal rings against the casing wall.

2,657,634
HYDRAULIC PUMP
Leonard S. Greenland, Compton, Wolverhampton, and Thomas Edwards, Bilbrook, near Wolverhampton, England, assignors to H. M. Hobson Limited, London, England, a company of Great Britain
Application October 19, 1950, Serial No. 191,066
9 Claims. (Cl. 103—38)



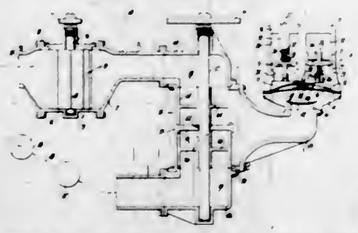
1. A hydraulic pump, comprising a cam shaft, pump barrels disposed radially in relation to the cam shaft and arranged in a plurality of groups, with the barrels of each group having their axes disposed parallel to one another in a common axial plane of the cam shaft, a plunger mounted to reciprocate in each pump barrel to perform suction and delivery strokes, an inlet for liquid, the pump barrels being arranged in pairs and each pair of pump barrels having a common delivery outlet, a cam mechanism on the cam shaft for reciprocating the plungers in their respective pump barrels, means for regulating the delivery strokes of said plungers, said cam mechanism being so shaped that the flow of liquid in each delivery outlet is constant and determined in magnitude by the setting of said regulating means, an oscillatory valve associated with each group of pump barrels, and valve actuating means driven by the cam shaft for oscillating all of said valves, said valves having inlet and discharge ports for connecting the associated pump barrels to said inlet, during the suction strokes of the plungers in said barrels, and to the associated delivery outlet, during the delivery strokes of the plungers in said barrels.

2,657,635
FUEL PUMP AND CONTROL SYSTEM
Theodore R. Thoren, Chagrin Falls, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application June 25, 1948, Serial No. 35,253
6 Claims. (Cl. 103—42)



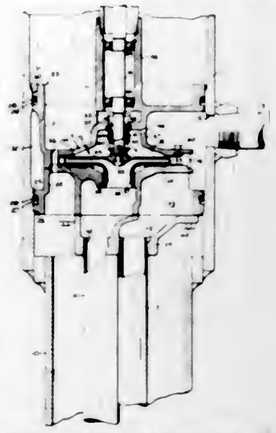
1. A pump comprising a casing having a recess with a multi-ported end face, a pump block in said recess having an end face bottomed on said end face of the casing, said end face of the block having a recess therein overlapping the ports in the end face of the casing, a vaned rotor in said recess of the block coacting therewith to define a pumping chamber with an inlet portion joined to one port of the casing and an outlet portion joined to another port of the casing through the overlapping portions of the block recess and the ports, said casing having passages extending from said ports, the passage from the port registering with the outlet side of the pump chamber extending through the side of the casing, the passage extending from the port registering with the inlet side of the pump chamber extending to the bottom of the casing, a settling cup on the bottom of the casing communicating with the last-mentioned passage, a filter between said last-mentioned passage and the cup, and said casing having an inlet passage communicating with the top of the cup.

2,657,636
HYDRAULIC PUMP
Benjamin F. Schmidt, Los Angeles, Calif.
Application March 24, 1949, Serial No. 83,268
6 Claims. (Cl. 103—45)



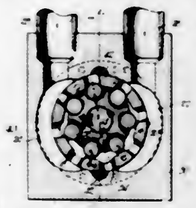
1. A pumping system of the character described comprising: a first pump of the expansible chamber type including a pumping chamber and a working chamber and a pumping element between them; a second pump in closed circuit with a fluid working medium container; a control valve disposed in said circuit, said valve being connected to said working chamber and arranged alternately to establish communication between said chamber and the low and high pressure sides of said second pump; a fluid motor disposed in said circuit between the high pressure side of said second pump and said control valve; and means for actuating said valve in response to the movement of said motor.

2,657,637
PITLESS WELL CONSTRUCTION
John Gordon Baker, Evansville, Wis., assignor to Baker Manufacturing Company, Evansville, Wis., a corporation of Wisconsin
Application November 21, 1950, Serial No. 196,915
2 Claims. (Cl. 103—103)



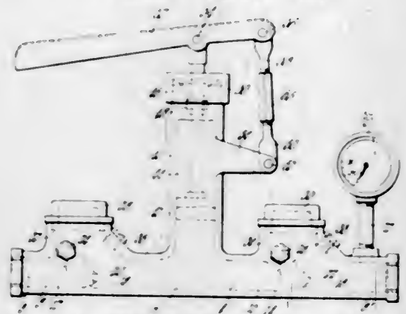
1. In a pitless well construction, the combination of, an elongated casing adapted to be opened at the top, a hollow head insertable into and withdrawable endwise from said casing from the top thereof and cooperating with the interior thereof to define an outlet recess, a pump chamber within said head, a centrifugal pump having an impeller disposed within said chamber and journaled in said head, a shaft carrying said impeller and extending upwardly along said well casing for actuation from a point above the top of the latter, said recess extending upwardly at least as high as said chamber, means on said head defining a passage connecting the upper portion of said pump chamber with said recess and permitting the natural flow of air from the pump chamber into the recess, and means defining a water delivery outlet extending laterally through said casing near the upper part of said recess.

2,657,638
ROTARY PUMP
Charles L. English, Tulsa, Okla., assignor, by mesne assignments, to Byron Jackson Co., Los Angeles, Calif., a corporation of Delaware
Application April 12, 1948, Serial No. 20,407
25 Claims. (Cl. 103—121)



1. In a rotary pump, a pair of rotors interconnected for rotation in predetermined angular relationship, one of said rotors comprising a perforate annulus encircling the other, said rotors supported in eccentric relation whereby there is a crescent-shaped gap between them, an intake manifold and an exhaust manifold adjacent the exterior of the annulus and communicating with the perforations therein, the inner rotor having around its periphery a series of circumferentially spaced pockets, and a free-floating roller in each pocket urged outwardly by centrifugal force as the inner rotor turns whereby said rollers always ride against the interior of said annulus and subdivide said crescent-shaped gap into a plurality of separate compartments.

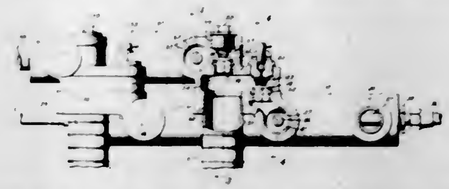
2,657,639
RECIPROCATING PISTON PRESSURE PRIMING DEVICE
Wilfred P. Roberg, Springfield, Mass.
Application August 29, 1950, Serial No. 182,093
1 Claim. (Cl. 103—153)



A unitary pressure priming device for delivering liquid under pressure comprising, an elongated unitary body having a bore extending therethrough from a rear inlet end to a forward outlet end aligned therewith, a cylinder integral with said body extending upwardly therefrom at right angles thereto and having a piston bore in communication with the bore of said body, a rear transverse wall extending across the bore of said body between the inlet end of said body and a side of said cylinder adjacent the inlet end, a forward transverse wall extending across the bore of the body between said outlet end of said body and a side of said cylinder adjacent the outlet end, said transverse walls provided with openings therethrough, valve means forwardly of said transverse walls in the bore of said body and pivotal connections between said valve means and body for swinging of said valve means over the openings, hollow necks extending upwardly from said body in communication with the bore thereof over said valve means and having open upper ends, caps removably secured to upper ends of said hollow necks, a piston reciprocable up and down in the bore of said cylinder having a rod extending upwardly therefrom, a projection extending from a side of said cylinder, a lever pivoted intermediate opposite ends thereof to the upper end of said rod, a member pivotally connected at opposite ends to said projection and an end of said lever, said transverse walls in the bore of said body and the openings therethrough disposed whereby the axes of said openings are angularly disposed to intersect the longitudinal axis of the bore of said body, said valve means including arms pivoted to said body carrying valves.

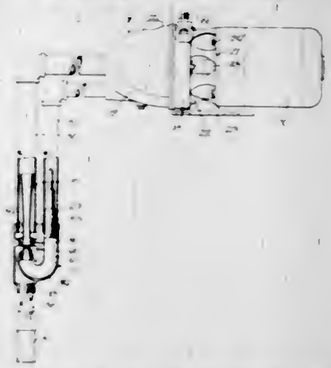
2,657,640
PUMP
Perry Arant, El Monte, Calif., assignor to Clayton Manufacturing Company, El Monte, Calif., a corporation of California
Original application August 28, 1943, Serial No. 500,413. Divided and this application May 6, 1947, Serial No. 746,189
2 Claims. (Cl. 103—203)

1. In a pump for pumping heated liquid at vapor-forming temperatures: an elongated, substantially cylindrical intake manifold, said manifold having a lateral inlet, and at least one lateral outlet spaced a substantial distance from said inlet; a housing having a pump inlet check valve communicating with said manifold outlet;



means securing said intake manifold to said housing; and a heat exchange tube extending longitudinally through said substantially cylindrical intake manifold and through the ends thereof, and means for pumping liquid through said manifold and housing.

2,657,641
PUMPING APPARATUS
Kenneth R. Lung, Kendallville, Ind., assignor to Flint & Walling Manufacturing Company, Incorporated, Kendallville, Ind., a corporation of Indiana
Application April 20, 1951, Serial No. 221,986
2 Claims. (Cl. 103—260)

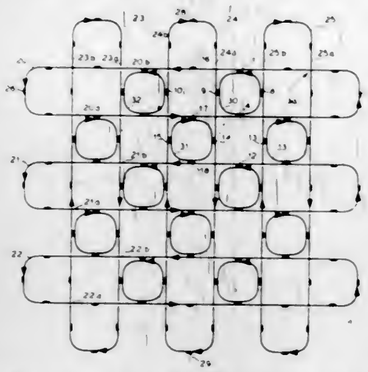


1. As an article of manufacture, a jet pump unit adapted for either shallow well or deep well operation, comprising two tubular portions in side by side relation with both portions open at one end, a screen mounted in and extending from the open end of one of said tubular portions, a Venturi tube mounted in and extending from the open end of the other of said tubular portions, said one tubular portion at its other end being reversely turned and having a nozzle aligned with said Venturi tube, and said other tubular portion being open at its other end, said jet pump unit having bolt receiving lugs at the respective sides of and intermediate the tubular portions, said bolt receiving lugs lying within a circle having a diameter equal to the dimension across said tubular portions so that the jet pump unit will readily fit within a well casing for deep well operation.

2,657,642
PASSENGER TRANSIT SYSTEM
Henry A. Babcock, Glendale, Calif.
Application November 27, 1948, Serial No. 62,305
28 Claims. (Cl. 104—28)

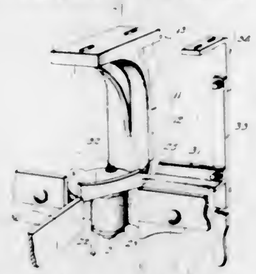
21. In a transportation system, the combination of: a plurality of transfer stations; and a

plurality of independent routes each of which traverses a number of said transfer stations less than the total number thereof, each of said



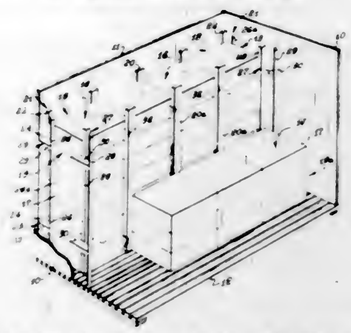
transfer stations being traversed by at least two adjacent routes in generally parallel but laterally spaced relation and in the same direction.

2,657,643
OVERHEAD SWITCH
John Henry Swanback and Nels Jens Jensen, Omaha, Nebr., assignors, by mesne assignments, to The Globe Company, Chicago, Ill., a corporation of Illinois
Application February 17, 1950, Serial No. 144,824
3 Claims. (Cl. 104—99)



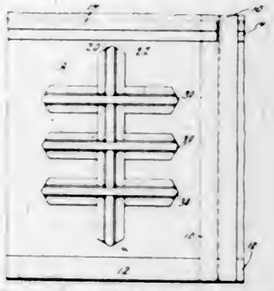
1. A switch for an overhead tracking system having at least three spaced angularly arranged track portions, comprising a support having an upright portion for being connected at its upper end to overhead construction, said support having adjacent its lower end a substantially horizontally arranged bifurcated portion for connection at its outer spaced ends to two of said track portions and a turntable supporting portion intermediate the legs of said bifurcated portion, a turntable, means associated with said turntable and turntable support for pivotally mounting the turntable on its support, said mounting means and turntable support being spaced a substantial distance from the sides of said bifurcated portion, said turntable having a substantially straight side positioned outwardly from the axis of said turntable at least as far as said pivotally mounting means, a single substantially straight guide member on said turntable adjacent the straight side arranged to be moved into substantially abutting alignment with either of said track portions to receive therefrom or guide thereto a trolley having depending frame, the distance between the flat side of said turntable and said track portions being sufficient to provide clearance for the depending trolley frame of a trolley thereon.

2,657,644
CENTER FILLING AND BRACING OF CARLOADS
Harold C. Pierce, Pomona, Calif.
Application October 30, 1948, Serial No. 57,499
12 Claims. (Cl. 105—369)



1. In a box car having a centrally located side door opening, a load comprising individual stacks of boxes alined in parallel rows extending transversely and longitudinally of the car and substantially filling the car including its central portion opposite said opening, and substantially T-shaped members having their head portions interposed between and spacing apart the transverse box rows opposite said opening and web portions projecting between adjacent vertical walls of the stacks.

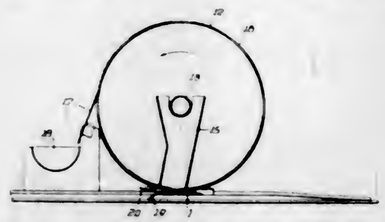
2,657,645
RAIL CAR PANEL
Francis A. Ecoff, Richmond Heights, Mo., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application December 5, 1947, Serial No. 789,983
3 Claims. (Cl. 105—401)



1. A stiffened panel for railway cars comprising a thin substantially flat sheet of metal, frame members secured to the metal sheet and bounding a panel area in the sheet, a first stiffener welded to said panel on one side thereof, and a plurality of additional stiffeners positioned substantially normal to said first stiffener and overlapping the same and welded to said one side of the panel.

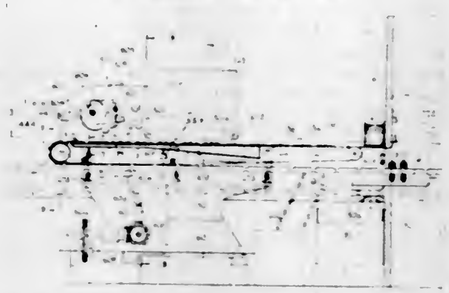
2,657,646
APPLICATION OF PLASTIC SUBSTANCES TO BISCUITS AND THE LIKE ARTICLES
Alfred Derbyshire and Joseph Francis Naylor, Newton-le-Willows, England, assignors to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England, a British company
Application April 19, 1951, Serial No. 221,776
3 Claims. (Cl. 107—1)

1. An apparatus for applying a layer of plastic material to laminae, including in combination a movable endless conveyor belt, upstanding dogs mounted on said conveyor belt in spaced longitudinal relationship, pairs of laterally spaced ramps extending longitudinally of and in substantially parallel superposed relationship to said conveyor belt, each pair of said ramps being adapted to support laminae thereon and said dogs being of such height as to abut the edges of laminae when so supported, a movable stencil



surface spaced vertically above said ramps to contact laminae supported thereon, means for driving said stencil surface and said conveyor belt imparting to said stencil surface a speed in the direction of movement of said conveyor belt which in the region of contact with laminae supported on said ramps is substantially the same as the linear speed of the conveyor belt, and means to supply plastic material through the stencil openings in said stencil surface.

2,657,647
CONFECTION MACHINERY
Edward D. Rapisarda, Agawam, Mass., assignor to G. Cella, Inc., New York, N. Y., a corporation of New York
Application July 2, 1946, Serial No. 681,034
7 Claims. (Cl. 107—1)



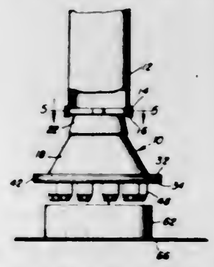
7. In a confection machine, means for depositing shell closure material to be moved in registered alignment with unsealed filled shells in mold cavities on a conveyor moving along a path in one direction; moving means intermediate the depositing means and said path of the mold cavities for receiving the shell closure material when moving along a path in a direction opposite to said direction of said conveyor, means for reversing the direction of travel of the shell closure material moving means, and means for applying said closure material to said filled shells in said moving mold cavities; means for oscillating said depositing means to and fro with respect to the path of movement of said intermediate moving means; a power drive for operating said moving means and said conveyor in timed relation; a flexible transmission drive interconnecting said power drive with said oscillating means; and means connecting said power drive with said oscillating means for controlling the depositing of said closure material to be effective only when said depositing means is moving in the direction opposite to the direction of the path of movement of said conveyor.

2,657,648
DOUGH WORKING AND SHAPING MACHINE
Hilon W. Sawyer, Nutley, and Louis Gelly, Newark, N. J., assignors to Thomson Machine Company, Belleville, N. J., a corporation of New Jersey
Application June 10, 1950, Serial No. 167,402
5 Claims. (Cl. 107—9)



1. In a dough working machine, the combination of a frame, two dough working elements thereon having spaced opposed surfaces forming a molding space between them to receive and roll a mass of dough between them, one of said surfaces being formed by a reach of a flexible belt, and means for at will changing the shape of said surface comprising packing bars at the side of said belt reach opposite said surface and movable horizontally and tiltable in vertical planes to flex said belt reach, means mounting said bars for movement in vertical planes including horizontal shafts on said frame, arms rotatable about the axes of said shafts and means pivotally connecting each of said arms to one end portion of one of said bars to tilt said bars in vertical planes, certain of said arms being also movable longitudinally of the corresponding shafts for horizontally moving the bars connected to said certain arms.

2,657,649
FORMING HEAD AND METHOD OF FORMING ICE-CREAM TARTS
Sylvester J. Daanen and Thomas H. Lutsey, Green Bay, Wis.
Application July 30, 1951, Serial No. 239,356
4 Claims. (Cl. 107—54)



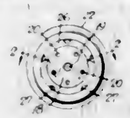
4. The method of filling ice cream cups and embedding a confection therein comprising positioning a plurality of dispensing spouts with the lower ends thereof at different elevations above the bottom of a cup, filling the cup simultaneously through all of the spouts to a level above the lower end of one of the spouts and below the lower end of another of the spouts, stopping the flow of ice cream through the spouts, removing the spouts from the ice cream and filling the depression formed by said one of said spouts with a confection.

2,657,650

TORCH FOR CUTTING STAINLESS STEEL

Alfred F. Chouinard and John B. La Pota, Chicago, Ill., assignors to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware

Application May 21, 1947, Serial No. 749,412
7 Claims. (Cl. 110—22)



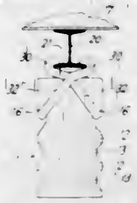
1. A cutting torch having a cutting tip provided with a central high pressure oxygen passage and an annular row of passages for combustible gaseous mixtures, a sleeve encircling the delivery end portion of said tip and having an annular row of converging discharge passages at the delivery end, and interengaging means between said sleeve and said tip for insuring the staggered position of the passages of the two annular rows.

2,657,651

HANGER CONSTRUCTION FOR ANCHOR TILES OF REFRACTORY ARCHES

Robert H. Forsyth, Fair Haven, N. J., assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey

Application December 20, 1950, Serial No. 201,771
8 Claims. (Cl. 110—99)



1. For use with a refractory arch having upwardly projecting anchor tiles embedded therein and formed with support shoulders in opposite surfaces for engagement with hangers suspending the arch from a framework including flanged structural members, hanger means comprising, in combination, a pair of independent substantially identical U-shape metal stirrups each having a substantially rectilinear base adapted to engage along a support shoulder of an anchor tile, the outer ends of the stirrup legs being directed in the same direction laterally outward from the plane of the U to form hooks adapted to engage over the flange of a structural member; said stirrups being adapted to be arranged in crossing relation on the anchor tile with the hooks of each stirrup being reversely directed relative to the hooks of the other stirrup and with each stirrup having its base adapted to engage a support shoulder in one anchor tile surface and its hooked ends adapted to engage the flange adjacent the opposite surface of the anchor tile.

2,657,652

IMPLEMENT-SEEDER COMBINATION

William T. Graham, Amarillo, Tex.

Application July 16, 1949, Serial No. 105,093
3 Claims. (Cl. 111—64)

1. An implement and seeder combination including an implement frame supported on wheels and carrying transversely spaced ground working tools with the implement frame being adjustably supported on said wheels to vary working depth of the ground working tools, a seeder frame, means mounting the seeder frame over the implement frame for movement of the seeder frame with the implement frame including tongue means extending forwardly from the seeder frame and terminating over a forward part of the implement frame, means pivotally connecting the terminal of the tongue means with said forward part of the implement frame to flexibly interconnect said frames for vertical movement between said frames, vertical guides on one of the frames having sliding engagement with the other frame to maintain transverse re-



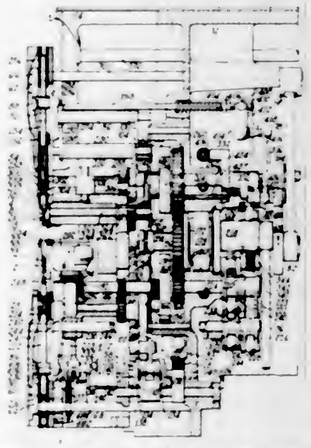
lationship between the frames, ground wheels for the seeder frame transversely spaced pack wheels carried by the seeder frame with the spacing corresponding to the spacing of the ground working tools and in trailing relation with said ground working tools, means adjustably mounting the ground wheels on the seeder frame, said adjustability of the ground wheels providing for transfer of weight of the seeder frame from said ground wheels to the implement frame and the pack wheels, a seeder boot associated with each of said ground working tools, and seed depositing mechanism carried by the seeder frame for delivering seed to said boots.

2,657,653

SEWING MACHINE

Clyde L. Knott, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application February 10, 1950, Serial No. 143,536
39 Claims. (Cl. 112—36)



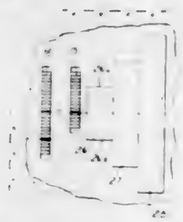
1. A sewing machine having a needle, a guide foot, a work support and a vertical guideway along which the work support is movable toward and from the guide foot, in combination with a pair of feed feet at opposite sides of a location ordinarily occupied by the work, and means for actuating the feed feet to clamp and feed the work, one of said feet being connected to the work support by a floating actuating lever to cause the work support to be lowered from engagement with the work during feeding movement of the feed feet.

2,657,654

SEWING MACHINE

Ilma M. Overman and Harold S. Overman, Dahlgren, Va.

Application March 31, 1950, Serial No. 153,192
2 Claims. (Cl. 112—136)



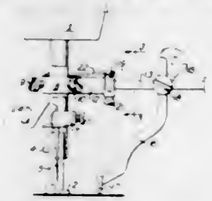
1. A seam gage attachment for a sewing machine including a table having a needle opening and a needle operating along the axis of said opening to determine a seam line, said gage attachment comprising a flat piece of paper-thin material having pressure sensitive adhesive on the back face thereof for attaching said gage to the table of the machine by adhesion at a predetermined distance from said needle opening, said piece being cut to form a plurality of integral strips each of a different color but of equal and uniform widths, each succeeding strip being longer than the strip on one side thereof so as to form a uniform stepped configuration; said strips being adapted to be aligned parallel to said seam line for serving to mark predetermined distances from the needle opening along the seam line both in front and in back of said opening and at least at one side thereof along a line perpendicular to said seam line at said needle opening.

2,657,655

GUIDING DEVICE FOR SEWING MACHINES

Louis Margand, Paris, France, assignor to Lucien Braun, Paris, France

Application May 29, 1950, Serial No. 164,951
Claims priority, application France June 16, 1949
1 Claim. (Cl. 112—151)



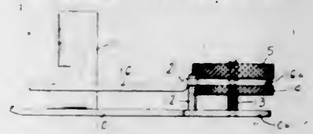
A stitching guide for a sewing machine having a vertical presser foot bar comprising a support block secured to the vertical bar of the presser foot and having a horizontal bore therein, a support rod having a cylindrical extremity axially slidably and rotatably mounted in the bore of the support block, a guide plate carried by the support rod, a ring fixed to the rod between the guide plate and the cylindrical extremity, said ring having two adjacent flat surfaces on the circumference thereof substantially perpendicular to each other, a peripherally extending groove in each of said flat surfaces, a leaf spring having one end fixed to said support block and having a free end provided with a curved lug-like portion, extending beyond the block to a position to engage in one of said grooves of the ring when the rod is in the bore of the block, said spring being tensioned to cause the lug-like portion to releasably resiliently enter into one of said grooves, to releasably retain the rod against axial movement in the bore of said block and to releasably retain the rod against rotary movement in said bore.

2,657,656

FAGGOTING ATTACHMENT FOR SEWING MACHINES

Herbert H. Russell, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut

Application April 27, 1951, Serial No. 223,399
7 Claims. (Cl. 112—179)



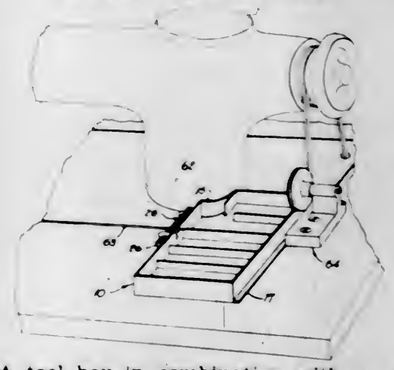
1. A sewing machine attachment for faggoting work comprising a foot member, means securing said member to the presser bar of a sewing machine, a cloth-supporting arm supported by the foot member substantially parallel thereto and in spaced relation thereto both laterally and vertically, and means for adjusting the arm vertically with respect to the foot.

2,657,657

TOOLBOX

Theresa Fuhse, Bradley Beach, N. J.

Application September 6, 1950, Serial No. 183,368
4 Claims. (Cl. 112—218)



1. A tool box in combination with a sewing machine and a bobbin winder and a work-bench, the machine having a base and a neck and the work-bench having an opening formed therein for the removable insertion of the base of the machine, the opening being adapted to leave a groove intermediate the periphery thereof and the base of the machine when inserted, the bobbin winder having a base positioned adjacent the outer end of the neck of the machine and substantially perpendicular to the longitudinal center line of the work-bench, the tool box comprising upstanding front and back members and upstanding end members, means for securing together the abutted ends of said members, a bot-

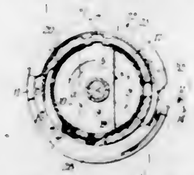
tom member disposed along the bottom edges of said front and back and end members, said bottom member protruding beyond said back member and coacting with the base of the bobbin winder, at least a portion of one of said end members being of arcuate form and adapted to be fitted around the neck of the machine when the protruding portion of said bottom member is in abutted relationship with the base of the bobbin winder, means for dividing the interior of the box into a plurality of compartments, means coacting with the groove for removably securing the box to the work-bench, and a cover member for said box.

2,657,658

LOOP-TAKER FOR SEWING MACHINES

Ralph E. Johnson, Mountainside, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application August 28, 1951, Serial No. 243,935
5 Claims. (Cl. 112—228)



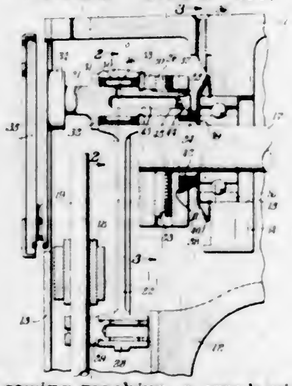
1. A sewing machine loop-taker comprising a cup-shaped body having an open-sided raceway internally thereof, a bobbin-carrier having an annular bearing rib disposed in said raceway, a gib adapted to close the open side of said raceway, said gib being provided at one end with a loop-controlling tail terminating in a point which, at a maximum, is spaced from the axis of the loop-taker a distance substantially equal to the radius of the peripheral surface of the bearing rib, the bearing rib engaging surface of the gib being formed with a thread groove adjacent the point thereof to provide a thread clearance between the gib and the proximate face of the rib.

2,657,659

LUBRICATING DEVICE FOR SEWING MACHINES

Arthur N. Hale, Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application March 26, 1951, Serial No. 217,571
4 Claims. (Cl. 112—256)



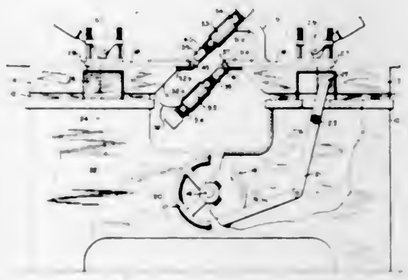
1. In a sewing machine, a crank-pin lubricating system for a needle-bar driving crank mechanism of the type including a frame, a rotary shaft journaled in said frame, a crank fixed for rotation with said shaft, said crank having a face formed with an annular recess and disposed in a plane substantially transverse to the axis of rotation, said crank having a hub portion extending outwardly from said face, a crank-pin, and a link having at one extremity a bearing journaled on said crank-pin; said lubricating system comprising, a lubricant-directing disk carried by said hub in spaced relation with said crank face, a lubricant conducting passageway terminating vertically above said axis of rotation and between said crank-face and said disk for introducing lubricant therebetween, and ducts formed in said crank-pin providing a lubricant conducting passageway from the annular recess to the link bearing.

2,657,660

APPARATUS FOR OPEN BUTT WELDING METAL WORKPIECES

John J. Crowe, Westfield, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York

Application June 2, 1948, Serial No. 30,687
3 Claims. (Cl. 113—59)



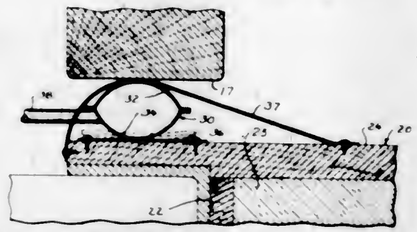
1. Apparatus for butt welding metal workpieces comprising a pair of work supports mounted for relative movement toward and away from each other and adapted to hold the work-pieces with their longitudinal axes in substantially the same plane and with their faces to be welded in confronting spaced relation, means for moving said work supports toward each other to bring said work faces into abutting relation, a pair of gas heating torches each having a torch tip, means for supporting one of the torches above the work and the other torch below the work with the tips of the torches pointed toward the work, said means including a torch holder for each torch, each torch holder being pivotally and slidably supported on a different one of the work supports at regions spaced from the plane of the axes of the workpieces and each torch holder being pivotally connected to the work support to which it is not otherwise connected at a region closer to said plane so that when said work faces are in spaced relation the tip of one torch directs its heating flames diagonally downward against one of said work faces and the tip of the other torch directs its heating flames diagonally upward against the other of said work faces and so that movement of the work supports toward each other swings the torch holders about their pivots and maintains them in position to cause the torch tips to continually direct the heating flames diagonally against said work faces until the work faces are in abutting relation.

2,657,661

INSULATING HATCHCOVER WITH INFLATABLE GASKET

Hector H. Robson, Scarsdale, N. Y., assignor to United Fruit Company, Boston, Mass., a corporation of New Jersey

Application January 14, 1952, Serial No. 266,408
2 Claims. (Cl. 114—201)



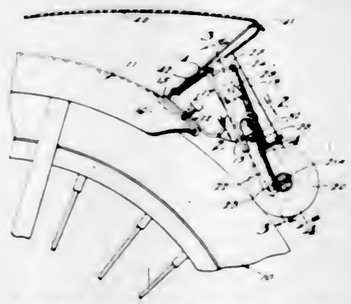
1. An insulating hatch construction for ships comprising a fixed frame member defining a hatch opening through a ship deck, said frame member having a substantially continuous horizontal lower surface portion surrounding said hatch opening, an insulating closure member for said hatch opening mounted below said ship deck for horizontal sliding movement into and out of hatch closing position, said closure member in closing position having horizontal upper surface portions in opposed juxtaposition to said horizontal surfaces of said fixed frame member, and a hollow inflatable gasket mounted on one of said members for interposition between said opposed surfaces when said closure member is moved to closing position, said gasket in said closing position of said closure member being inflatable and deflatable for sealing the spaces between said opposed surfaces.

2,657,662

BICYCLE WHISTLE

Charles Victor Tidswell, Adrian, Mich.

Application May 16, 1951, Serial No. 226,614
2 Claims. (Cl. 116—58)



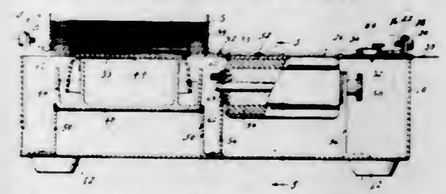
1. In a signal device for a wheeled vehicle, an adjustable mounting bracket, a movable arm centrally pivoted on the bracket, a traction wheel mounted on the forward end of the movable arm and adapted for selective driving engagement with one of the vehicle wheels, resilient means connected between the bracket and the rearward end of the movable arm yieldably holding the traction wheel out of driving engagement, selective means on the movable arm for pivoting the movable arm so as to bring the traction wheel into driving engagement with the vehicle wheel, an air cylinder pivoted on the rearward end of the movable arm, a hollow plunger eccentrically pivoted on the traction wheel and adapted for reciprocation in the air cylinder, a resilient piston on the free end of the plunger, a whistle orifice in the sidewall of the plunger in communication with the working face of the piston and a constrictor in the plunger for directing a high velocity flow of air through the whistle orifice.

2,657,663

COMBINED STENCIL-MOISTENING AND STENCIL-BLOTTING APPARATUS

Harmon P. Elliott, Watertown, Mass.

Application August 18, 1952, Serial No. 304,993
7 Claims. (Cl. 118—109)



1. In an apparatus for moistening stencils, a pair of tracks for slidably supporting a succession of stencils and along which the stencils are movable from a stencil-moistening position to a stencil-blotting position and thence to a pick-off position, a stencil holder secured to and above said tracks and adapted to hold a stack of stencils with the lowermost stencil in the stack resting on the tracks at said stencil-moistening position, a stencil-moistening element supported at said stencil-moistening position and engaging the under side of said lowermost stencil in the stack, a stencil-blotting element supported in said stencil-blotting position and engaging the under side of a stencil in said stencil-blotting position along said tracks, pusher means for advancing a said lowermost stencil in the stack along said tracks from said stencil-moistening position to said stencil-blotting position and for simultaneously advancing a stencil from said stencil-blotting position to said pick-off position, a stop for limiting each said stencil-advancing movement of the pusher, said stop being located to stop the pusher with a portion thereof under the stencil which will have become the lowermost stencil in the stack, means supporting said pair of tracks for upward movement away from said stencil-moistening and stencil-blotting elements, and mechanism responsive to a said stencil-advancing movement of said pusher means for raising said tracks and the stencils thereon away from said stencil-moistening and stencil-blotting elements.

2,657,664

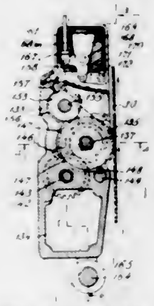
ADHESIVE APPLYING DEVICE FOR CASE CLOSING AND SEALING APPARATUS

Kaye Holstebroe, Gildersleeve, and Edgar Ardell and Ludwig Wimmer, Middletown, Conn., assignors to Emhart Manufacturing Company, a corporation of Delaware

Original application August 7, 1946, Serial No. 688,950. Divided and this application March 13, 1951, Serial No. 215,308
6 Claims. (Cl. 118—220)

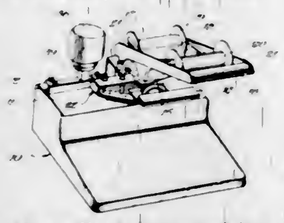
1. An adhesive applying device adapted to be disposed in the path of travel of a case flap to apply adhesive to a surface thereof comprising a casing containing an adhesive reservoir and a sump, an adhesive applying roll mounted in said casing for rotation on a vertical axis and adapted to contact the case flap and to coat the same with adhesive, an adhesive circulating system within said casing including pump means for with-

drawing adhesive from said reservoir and disposing it on the surface of said roll, an adjustable scraper cooperating with said roll to reduce said adhesive to a thin film and to control the thickness thereof, a doctor roll cooperating with said adhesive applying roll at an angular distance from said scraper to prevent the free flow of adhesive from said circulating system, said doctor roll being disposed with its surface contiguous



but out of contact with that of said adhesive applying roll, means for driving said rolls so that said contiguous surfaces move in opposite directions thereby permitting only a negligible amount of adhesive to escape between them, said sump being disposed to collect such adhesive and adhesive from said adhesive applying roll, and pump means for withdrawing adhesive from said sump and returning it to said circulating system.

2,657,665
SOLVENT APPLICATOR FOR IMPRINTING MACHINES
Joseph A. Weber, Prospect Heights, Ill.
Application December 5, 1950, Serial No. 199,263
2 Claims. (Cl. 118—268)



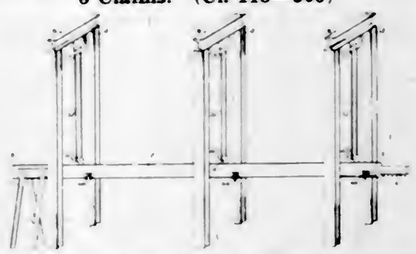
1. A liquid applicator comprising a support, said support having therein a transversely extending liquid well, a longitudinally extending superstructure carried on said support above said liquid well, a leaf spring fastened to said superstructure and extending in a longitudinal direction, a longitudinally extending yieldable wick fastened to and forming a part of said leaf spring and disposed beneath said superstructure, said yieldable wick having an end thereof depending within said well, and a liquid reservoir adjacent said support and having means arranged and constructed to supply liquid to said well, a wick disposed within said well and beneath the top surface thereof, whereby when sheet material is slid across the said support it is coated on its top side with a liquid as it raises the yieldable wick out of the well from a position in engagement with the wick within the well whereafter the yieldable wick rides on and across the top surface of the sheet material; a vertically adjustable screw means threadedly engaging said superstructure adjacent the well engaging portion of the leaf spring and yieldable wick for regulating the amount of upward swinging thereof, and a fulcrum forming adjustable screw threadedly engaging said superstructure and abutting said leaf spring and yieldable wick at the end thereof adjacent said superstructure and away from said well.

2,657,666
APPARATUS FOR LIQUID TREATMENT OF VEHICLE BODIES
Alexander P. Fowler, London, England, assignor to Carrier Engineering Company Limited, London, England, a British company
Application March 16, 1949, Serial No. 81,768
Claims priority, application Great Britain March 17, 1948
4 Claims. (Cl. 118—322)



3. Apparatus for processing a vehicle body by moving the body past a liquid applying station, comprising, in combination, spindle means of an overall length to extend substantially longitudinally through a vehicle body and supporting means for rotatably supporting the vehicle body with said spindle means extending longitudinally through the vehicle body as a spit therefor, and conveyor means for moving said spindle with its axis normally substantially horizontal past the liquid applying station.

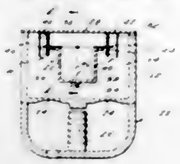
2,657,667
PIPE BOOM SUPPORTING APPARATUS
Jesse M. Lewis, Tulsa, Okla., assignor to Williams Brothers Company, Tulsa, Okla., a corporation of Nevada
Application October 18, 1950, Serial No. 190,855
8 Claims. (Cl. 118—506)



1. An apparatus of the character described, comprising a horizontally disposed boom, a plurality of braces anchoring one end of the boom to preclude longitudinal movement thereof, a plurality of support frames straddling the boom and arranged at spaced intervals along the boom, a hook secured on the upper surface of the boom underneath each support frame, and a pivotal hanger carried by each support frame engaging the adjacent hook for supporting the boom.

2,657,668
APPARATUS FOR IMPREGNATING AND COATING POROUS BODIES
Herbert N. Maier, Pottstown, Pa., assignor, by mesne assignments, to National Lead Company, New York, N. Y., a corporation of New Jersey
Application June 4, 1948, Serial No. 31,127
11 Claims. (Cl. 118—612)

1. Apparatus for permanently filling the pores in a body of material, said apparatus comprising a tank to be filled with a suitable filling material which is in liquid form but adapted to change to solid form, mounting means to support said body in said tank so that it will be immersed in the



liquid, a diaphragm forming a part of the wall area of the tank, and means for vibrating said diaphragm at a frequency of vibration in the range of sonic and supersonic frequency.

2,657,669
PENCIL BOX WITH BUILT-IN SHARPENER
Alex. A. Roger, Beverly Hills, Calif., assignor to Spengler-Loomis Manufacturing Company, Rockford, Ill., a corporation of Illinois
Application June 16, 1951, Serial No. 231,974
7 Claims. (Cl. 120—1)



1. In a pencil box of the character described, the combination of: a first unitary box structure having a first open top storage portion extending longitudinally from one end of the structure and a second open top pencil-sharpener portion extending longitudinally from the other end of the structure, the level of the top of said second portion being spaced above the level of the top of the first portion; a second unitary top box structure over said first portion of the first box structure with the top of the second box structure at substantially the same level as the top of said second portion of the first box structure, said second box structure being pivotally mounted on the first box portion to rotate laterally between a position closing said first storage portion and a position exposing the interior of said first storage portion; a lid dimensioned in length to cover both said second box structure and said second pencil-sharpener portion of the first box structure; a first track means on the top of said second box structure to retain said lid with freedom for the lid to slide longitudinally of the second box structure; and a second track means on the top of said second portion of the first box structure to retain said lid with freedom for the lid to slide longitudinally of the first box structure, said two track means being positioned for alignment when said second pivoted box structure is in position closing said first portion of the first box structure, whereby said lid is longitudinally movable to four positions, namely, a first position sufficiently retracted from said pencil-sharpener portion of the first box structure to permit dumping of pencil shavings therefrom, but covering said second box structure to confine the contents thereof, the lid at said first position being in engagement with both said track means to prevent rotation of said second box structure out of its position closing said first storage portion of the first box structure, a second position centrally of the two box structures closing both said second box structure and said pencil sharpener portion of the first box section, the lid at said second position being in engagement with both said track means to hold said second pivoted box structure in position closing said first portion of the first box structure, a third intermediate position partially retracted with respect to said second pivoted box structure for access thereto but in engagement with both said two track means to hold said second pivoted box structure in position closing said first box portion of the first box structure, and a fourth position completely retracted from said first track means on said second track means to cover said pencil-sharpener portion and to free said second pivoted box structure for rotation relative to the first box structure to expose said first portion of the first box structure for access thereto.

2,657,670
PENCIL
Lloyd L. Colburn, Capitola, Calif.
Application October 19, 1950, Serial No. 190,955
1 Claim. (Cl. 120—13)

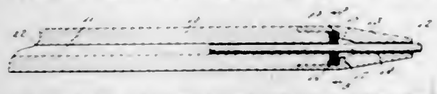


An excess pressure responsive training pencil of the class described comprising a casing having a frusto-conical end portion providing an axial passage and providing, on its interior, a cam surface, and further provided on its interior with an annular depression providing a keeper seat, said cam surface being communicatively registerable with said keeper seat, a projectible and retractible sleeve slidably mounted in said axial passage, spring latching fingers secured to and carried by said sleeve and located on the interior of the case, said spring fingers having outwardly divergent detents releasably engaged in said keeper seat, and a re-set rod axially mounted for actuation in said casing and joined at one end to the inner end of said sleeve, said rod serving to reengage the detent with said keeper seat under predetermined conditions.

2,657,671
CONTROLLED LEAD PENCIL
Francis A. Wade, Point Pleasant, and William Metzner, Philadelphia, Pa.
Application September 23, 1952, Serial No. 311,076
5 Claims. (Cl. 120—21)

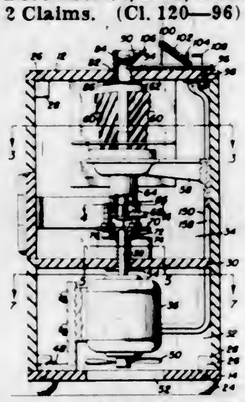
1. A pencil comprising a barrel having a bore for guiding a lead, a point piece having a barrel

end receiving bore, a lead guiding bore alined therewith, and an intermediate bore terminating in an annular shoulder spaced from the juxtaposed end of said barrel to form a chamber, means interconnecting said barrel and point piece, and a resilient washer disposed transversely of said chamber to elastically grip the portion of the lead in said chamber, said washer being di-



mensioned to abut said shoulder under feeding movement of the lead, and to abut said barrel end under reverse movement of the lead, whereby under lead feeding pressure said shoulder fulcrums said washer to deform it axially to relax said grip and permit the lead to move axially, while under writing pressure said barrel end causes said washer to maintain said grip.

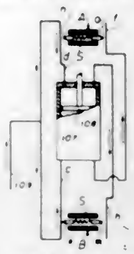
2,657,672
AUTOMATIC MOTOR-DRIVEN PENCIL SHARPENER
Walter Eugene Angell, Brooklyn, N. Y.
Application December 24, 1951, Serial No. 263,029
2 Claims. (Cl. 120—96)



1. For use in an electric pencil sharpener of the type having a motor driven cutter and a pencil guide carried by a wall of an enclosing housing in alignment with the cutter; a control switch adapted to control operation of the motor, said control switch being mounted on said wall and operatively associated with said pencil guide, said control switch comprising a fixed contact carried by said wall, a movable contact slidably mounted on said wall, said movable contact having an end portion slidably disposed in an opening in said pencil guide for engagement by a pencil, said guide being outwardly flared to form a stop, said end portion including an upwardly and rearwardly disposed flange normally engaging said stop, a spring member connected to a second flange at an opposite end of said movable contact for urging the same towards said pencil guide.

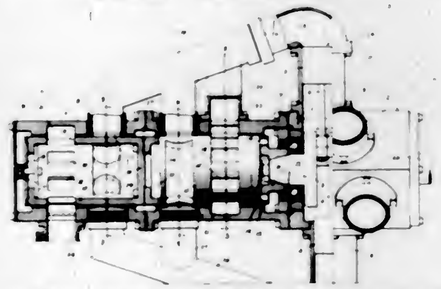
2,657,673
FLUID MOTOR CONTROL
Edgar E. Littlefield, Los Angeles, Calif.
Application November 4, 1944, Serial No. 562,002
3 Claims. (Cl. 121—46.5)

1. In combination; a cylinder having a piston reciprocable therein; a valve assembly having two valve seats, two valves only, and common electrical controlling means therefor said means acting upon said valves to move the same relative to the said seats and relative to each other thereby controlling a supply of pressure fluid to the cylinder to cause the piston to move in one direction and controlling exhaust of fluid from the cylinder in response to movement of the piston; a second valve assembly having two valve seats, two valves only, and common electrical controlling



means therefor said means acting upon said valves to move the same relative to the said seats and relative to each other thereby controlling a supply of pressure fluid to the cylinder to cause the piston to move in an opposite direction and controlling exhaust of fluid from the cylinder in response to movement of the piston.

2,657,674
HYDRAULIC POWER UNIT
John Luther Scruggs, North Sacramento, Calif.
Application September 22, 1949, Serial No. 117,093
1 Claim. (Cl. 121—121)

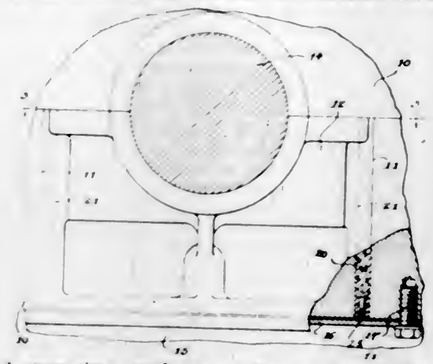


In a fluid power unit, a fluid motor including a crankshaft and a radial cylinder, an elongated rotary valve connected to the shaft to turn therewith, said valve being hollow and divided into two longitudinally separated chambers, a fixed body surrounding and engaging the valve, the valve having a port leading to each chamber and the body having ports to register with the valve ports, a conduit leading from the outer end of the cylinder having spaced legs connected to the body ports, the body and valve chambers having other registering ports, an intake passage member connected to one of such other ports, and an exhaust passage member connected to the other one of said other ports; said first named valve ports being arranged in the valve so that when one of said ports is in register with the corresponding body port, the other valve port is out of register with the corresponding body port.

2,657,675
CRANKSHAFT REAR BEARING SEAL
Frank McGowen, Twin Lakes, Mich., assignor to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia
Application June 24, 1950, Serial No. 170,222
5 Claims. (Cl. 121—194)

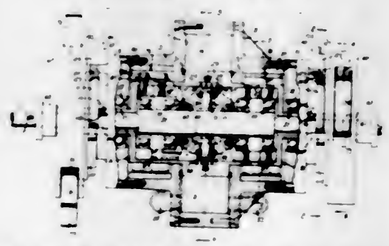
1. In an internal combustion engine, an engine block, a crankshaft bearing member supported

by said engine block and having a surface fitted with and engaged with a surface of the engine block, and means for sealing the said engaging surfaces comprising a strip interlocked between



said engaging surfaces and compressed therein to expand said strip into a tight engagement with said surfaces, and a pin driven into said strip to further expand a portion of said strip into tight engagement with said surfaces.

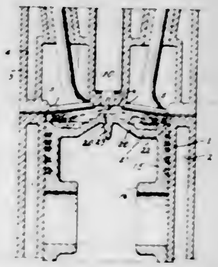
2,657,676
ROTARY POWER MACHINE
George E. Mallinckrodt, St. Louis, Mo.
Application September 8, 1951, Serial No. 245,759
10 Claims. (Cl. 123—11)



1. A rotary machine operative in connection with an expansive and compressive gaseous medium, comprising a frame, a shaft, an annular chamber connected with the frame, at least one pair of rotors, each rotor having at least one piston in the chamber, the pistons being operative in connection with said medium, a reverse-locking means between each rotor and the frame, intermittently operative drag means between each rotor and the frame, a differential gear train between each rotor and the shaft, and a coil spring connecting adjacent ends of the rotors and surrounding the differential gear train.

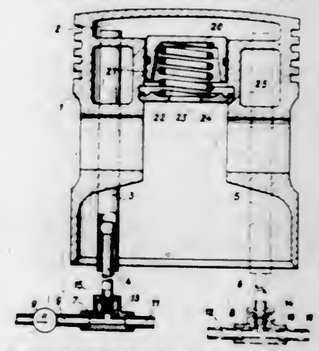
2,657,677
SELF-IGNITION INTERNAL-COMBUSTION ENGINE
Frederick G. Graves, Parma, Ohio, assignor to Justin W. Macklin, Cleveland, Ohio, trustee
Application October 6, 1948, Serial No. 53,103
7 Claims. (Cl. 123—32)

7. A self-ignition engine adapted to start and run on compression ratios of between 10 and 12 to 1, and without starting or firing aids, and having a piston and cylinder, a cylinder head having an inside surface extending in a uniform direction to the full diameter of the cylinder and on a slope less than ten degrees, inlet and exhaust valves in the cylinder head, a centrally positioned fuel injection nozzle for directing a plurality of radial streams of fuel at an angle slightly spaced from an inner head surface, the surfaces of the piston head being shaped to form a central cone having a base portion of slightly more than one-half of the diameter of the piston and having side wall surfaces generally sloping at about thirty to forty degrees, the cone having a small portion at its apex omitted to shorten the cone in alignment with the injection nozzle and whereby the surface of the piston and cone are permitted to move into closer proximity, the side walls of said cone portion having formed thereon three or more concentric annular and outwardly curved trough-like baffle surfaces arranged in progressive



steps from the top to the bottom of the cone, the piston having a substantially flat radial surface projecting outwardly from the cone and having an upwardly sloping uniform surface extending from the flat surface and rising about one-half the height of the cone and terminating near the periphery of the top of the piston, and the inner surface of the cylinder head and cylinder wall and piston head surfaces forming the complete combustion chamber, and whereby as the piston moves inwardly on the compression stroke, a plurality of layers of air are caused to whirl and form a rapidly spinning ring concentric with the piston and cylinder and into which ring the fuel streams are directed.

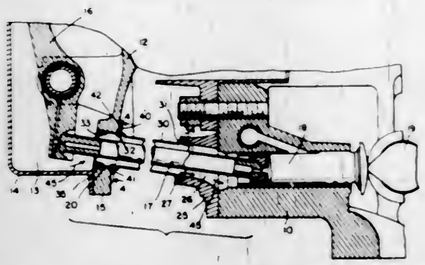
2,657,678
COOLING SYSTEM FOR THE HEAD PORTION OF PISTONS OF HIGH-SPEED INTERNAL-COMBUSTION ENGINES
Karl Maybach, Friedrichshafen (Bodensee), Germany, assignor to Maybach-Motorenbau G. m. b. H., Friedrichshafen, Germany, a German firm
Application August 11, 1951, Serial No. 241,448
Claims priority, application Germany September 9, 1950
9 Claims. (Cl. 123—41.36)



1. A compensated cooling system for the head portion of a power piston for high-speed internal

combustion engines, comprising a cooling chamber disposed in the head portion and being completely closed against the cylinder in which the piston operates, coolant circulating conduits connected and reciprocating with the power piston and terminating in said cooling chamber, stationary coolant supply and removal tubes individually extending into said conduits, and compensating means connected with said piston and communicating with said chamber and being adapted to be actuated by the coolant pressure in said chamber and to compensate, at a predetermined rate, the fluctuations of coolant flow through and of coolant pressure in said chamber caused by the pump action of said conduits and of said stationary tubes.

2,657,679
PUSH ROD HOUSING STRUCTURE
Robert J. Powell, Muskegon, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application September 8, 1951, Serial No. 245,678
3 Claims. (Cl. 123—90)



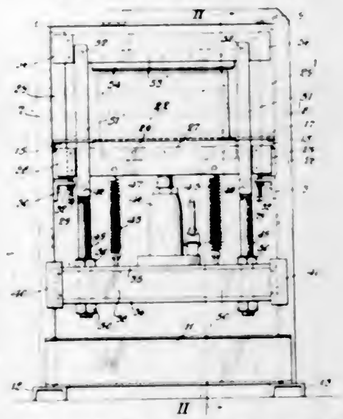
2. A push rod housing assembly for an internal combustion engine having a crankcase, a cylinder structure having a laterally extending flange underlying a rocker box, and provided with an opening, comprising a tubular section seated on the crankcase structure of said engine and telescopically extended into said opening in said cylinder flange, a push rod in said push rod housing projecting into the rocker box, said housing having a pair of spaced annular grooves adjacent the outer end thereof, packing in the outermost groove in sealing contact with the walls of said opening, said other groove disposed immediately adjacent the inner surface of said cylinder flange, and a spring clip anchored in said last mentioned groove and engaged with the inner surface of said cylinder flange to lock the push rod housing to the engine cylinder and crankcase assembly.

2,657,680
SAWING MACHINE FOR STONE AND HARD PLASTIC MATERIAL
Harold Evans, Niagara Falls, Ontario, Canada
Application August 29, 1950, Serial No. 182,020
22 Claims. (Cl. 125—14)



1. For a sawing machine suitable for cutting materials such as stone and plastic, a beam structure, a saw carriage slidably supported on said structure, mechanism for causing traversing motion of said saw carriage on said beam structure, said mechanism including a feed screw, a hydraulic transmission, a control for said transmission which may be set to provide different selected speeds for forward traversing movement of said carriage, automatic controls for reversing said transmission and for increasing the transmission speed for the return traversing movement of the saw carriage, said automatic controls including a solenoid for controlling the reverse operation of said hydraulic transmission, an electrical limit switch and circuit for controlling said solenoid, a second solenoid to change the output speed of said hydraulic transmission and an electrical circuit for said second solenoid interconnected with the reversing solenoid circuit.

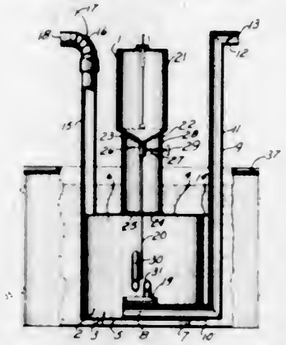
2,657,681
MACHINE FOR SPLITTING CONCRETE BLOCKS, BUILDING STONES, AND THE LIKE
Charles Gatzke, Des Plaines, Ill.
Application January 3, 1952, Serial No. 264,744
5 Claims. (Cl. 125—23)



1. A machine for splitting concrete blocks, building stones and the like, comprising two spaced vertical posts, two vertically spaced horizontal knives mounted for vertical movement between said posts, means on said posts for guiding said knives for movement in a single vertical plane, a horizontal beam structure mounted below said knives for vertical sliding movement between said posts, spring means connecting the lower knife with said horizontal beam structure, a hydraulic jack mounted on said beam structure and having a lifting member engaging said lower knife, link means extending upwardly from said beam structure, means connecting said link means with the upper knife, whereby upon operation of said jack the two knives are caused to move toward each other to engage with pressure opposite sides of a concrete block positioned between said knives, said spring means suspending said beam structure from said lower knife and returning said knives to their initial position upon release of the pressure in said hydraulic jack.

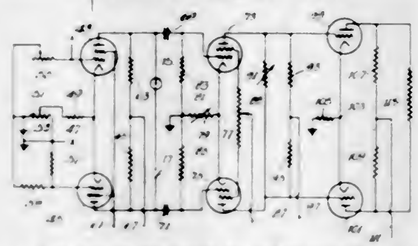
2,657,682
HEATER FOR STOCK TANKS
David Fransen, Wichita, Kans.
Application June 28, 1948, Serial No. 35,572
3 Claims. (Cl. 126—360)

1. A heater including a casing adapted for submergence in a body of liquid to be heated, an air supply duct extending downwardly alongside the casing and having a lateral portion extending through the casing near the bottom thereof, a fire pan, means supporting the fire pan near the outlet end of said lateral portion of the duct, tubes extending transversely within the casing



and crossing each other above the fire pan in laterally spaced relation, a fuel tank, means for supporting the fuel tank above the casing, and a fuel supply duct connected with the fuel tank and discharging into the fire pan between the space at the crossing point of said tubes.

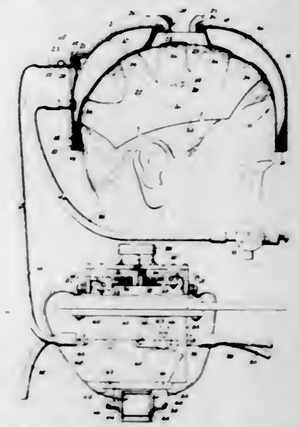
2,657,683
CARDIO-PNEUMO-ELECTRODERMOGRAPH
Robert Koller, Elmhurst, Ill.
Application March 23, 1949, Serial No. 82,991
9 Claims. (Cl. 128—2.1)



1. A cardio-pneumo-electrodermograph comprising a plurality of electrodes for contact with a person's epidermis, an electrical circuit with the input thereof including a bridge circuit having an arm thereof including two of said electrodes and responsive to variations in the resistance between said electrodes, and an indicating instrument connected to, and controlled by said electric circuit for indicating a function of changes in bodily resistance, said circuit including circuit elements of suitable values to cause said indicating instrument to indicate only relatively rapid variations of resistance between said electrodes and to return said instrument to zero following each relatively rapid change in resistance.

2,657,684
SURGE-PRODUCING SCALP-TREATING DEVICE
Hillard M. Avery, Indianapolis, Ind.
Application September 26, 1951, Serial No. 248,434
16 Claims. (Cl. 128—24.1)

13. A scalp massage device comprising a helmet of relatively thin, rigid material, a concavo-convex, flexible bladder nested in said helmet and fixed thereto near the rim thereof, a series of ducts through said helmet wall communicating with the cavity within said bladder, conduit means connecting said series of ducts to a common junction fitting, a fluid flow control device comprising a base block having a pair of inlet ports, an outlet port and a waste port therein, valve means carried in said base block controlling said inlet ports for alternate flow from one or the other of said inlet ports, through said valve means, to a common passage in said base block, a second valve means carried in said base block controlling said outlet port and said waste port



for alternate flow either from said common passage through said valve means to said outlet port or from said outlet port through said valve means to said waste port; a relatively flexible conduit connected between said outlet port and said common junction fitting, means for connecting a source of cold liquid with one of said inlet ports, means for connecting a source of hot liquid with the other of said inlet ports, and control means associated with said flow control device for actuating each of said valve means.

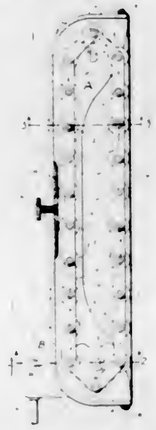
2,657,685
MECHANICAL BODY MASSAGER
Louis E. Holland, Lee's Summit, Mo.
Application May 26, 1952, Serial No. 289,971
6 Claims. (Cl. 128—55)



1. A mechanical body massager adapted for mounting within a shower stall, said massager comprising an elongated vertical shaft mounted for rotation on its longitudinal, vertical axis and

having a plurality of slots therethrough; and an elongated, flexible slapping panel in each slot respectively and extending radially from the shaft in opposite directions.

2,657,686
SCALP AND BODY STIMULATOR
Carl Brandenfels, St. Helens, Oreg.
Application June 30, 1952, Serial No. 296,319
7 Claims. (Cl. 128—58)



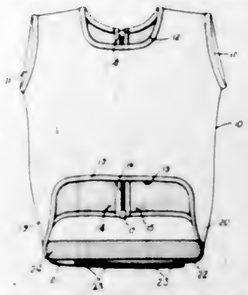
1. In a body stimulating device, the combination of a portable housing, a pair of sprockets rotatably journaled in said housing, a motor mounted outside the housing, gearing for driving one of the sprockets, a pair of transversely aligned endless chain-belts joined together in spaced relationship, rotatable members supported between said chain-belts, said members extending around and coacting with the sprockets to actuate the chain belts and mounted in relation to said sprockets to permit the chain belts to yield longitudinally to the housing in order to allow the rotatable members to conform to the contour of the body as the device is moved over and pressed thereagainst, and guard means secured to the housing and extending substantially to the plane of the lower reaches of the chain belts.

2,657,687
PROSTATE GLAND MASSAGING DEVICE
Claude F. Bonham, Ravenna, Ohio
Application June 7, 1950, Serial No. 166,623
8 Claims. (Cl. 128—61)



1. A prostate gland massager, comprising a collar having an opening therethrough, a sac of thin, flexible material and having an open end, means attaching the open end of said sac onto said collar, and an elongated element provided with a massaging knob at one end received within said sac through said opening of the collar, said elongated element being of resilient plastic material including said knob at said one end thereof, a hand grip at the other end thereof, and an integral intermediate portion of reduced diameter with respect to said knob.

2,657,688
GARMENT FOR RETAINING INFANTS AGAINST DISPLACEMENT FROM A SUPPORT
Irving Tucker, Merrick, N. Y.
Application November 15, 1949, Serial No. 127,491
1 Claim. (Cl. 128—134)



The combination with a seat having a pair of coupling members at spaced positions on the lower surface thereof, of a garment comprising body encircling front, back and side portions, lower side edges of the garment having downwardly extending straps, and means on said straps for detachable engagement with the coupling members of said seat.

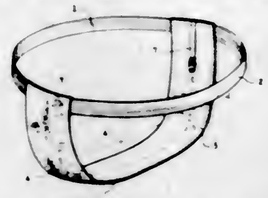
2,657,689
BABY GARMENT
Leah A. Kay, Amarillo, Tex.
Application January 15, 1949, Serial No. 71,069
8 Claims. (Cl. 128—284)



1. A garment for infants including, a body formed of two layers of fabric having waist band forming end portions and leg encircling side edges, means joining the adjacent side edges of the layers of the body, means joining the adjacent end portions of the body leaving an unjoined central opening between the layers at each end of the body, an infoldable flap carried by each side edge of the body and arranged to be infolded over the body to overlap in the central portion of said body, and a plurality of fasteners on the waistband end portions of the body and adjustably joining opposite ends of said waistband portions about the waist of an infant.

2,657,690
WOMAN'S GARMENT
Norma Maiden, Ottawa, Ontario, Canada
Application March 19, 1952, Serial No. 277,353
2 Claims. (Cl. 128—289)

1. A woman's garment for use with a sanitary napkin comprising a narrow crotch strap of elongated rectangular form and of a length too short to extend through the crotch of the wearer from the waistline at the front to the waistline at the back, a moisture-proof lining covering the entire inner side of said strap and secured thereto about its perimeter, said lined strap being non-stretchable and of substantially the same width for its entire length as the body portion of a sanitary napkin and thus able to fit comfortably in the crotch between the wearer's legs and to move back and forth therebetween with relative freedom; napkin securing means attached on the



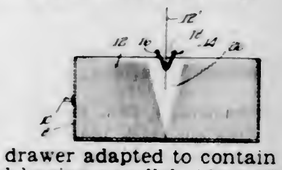
lined side of said strap centrally thereof at each end, and an elastic belt consisting of a pair of complementary stretchable bands, one on each side of said strap and permanently attached to the opposite ends thereof substantially level and in line with the attachment of said napkin securing means to said strap ends and acting to pull the ends of said strap sideways and hold the same flat against the central sagging pull of the napkin suspended from said securing means.

2,657,691
INSTRUMENT USEFUL IN ANESTHETIZING BY INTRATRACHEAL INSUFFLATION
Nils Nordstrom, Jr., Binghamton, N. Y.
Application December 1, 1952, Serial No. 323,421
6 Claims. (Cl. 128—303)



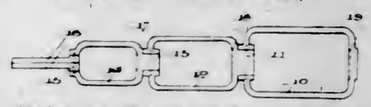
1. An instrument for facilitating the insertion of an endotracheal tube into the trachea for anesthetic purposes comprising an elongate tube-holding member having angularly related head and handle portions, the head portion being shaped generally as a cross bow having outwardly convex ends, of which one end merges into the handle portion and the other end projects from the handle portion as a claw, at least said other end of the head portion being provided with a longitudinal channel having part-circular section corresponding to the section of the tube and which opens through its outer convex side for receiving the end portion of a tube to be inserted into the trachea with sliding fit, and means for securing the tube received in said channel immediately adjacent its tip, the construction and arrangement being such that said other end of the head portion and a tube whose tip end is received in said channel may be inserted as one into the pharynx and the tip of the tube guided to a position above the opening to the trachea.

2,657,692
FILE SEPARATOR
Ernest A. Dahl, Skokie, Ill.
Application January 19, 1951, Serial No. 206,886
4 Claims. (Cl. 129—16)



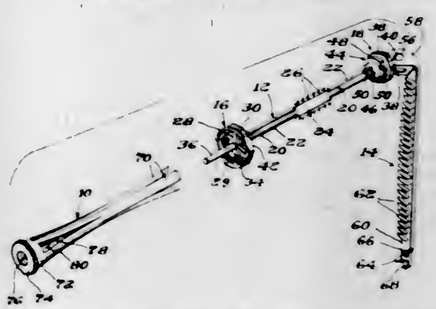
3. A file drawer adapted to contain a plurality of files and having parallel side walls of predetermined thickness spaced apart a predetermined distance, and a file separator comprising an elongated body member having a pair of recesses extending upwardly from the bottom, said recesses being spaced apart the predetermined distance that the side walls of said drawer are spaced whereby said separator fits across the top of said drawer and depends thereinto to maintain files in spaced-apart relation, said separator having a longitudinal slot extending between said pair of recesses to facilitate the insertion of a file in said drawer.

2,657,693
HAIR CURLER
Mildred Pavlot, Pittsburgh, Pa.; now by change of name Mildred P. Patrina
Application May 18, 1951, Serial No. 226,984
6 Claims. (Cl. 132—41)



1. A device of the character described comprising an outer frame, an intermediate frame pivoted to said outer frame, an inner frame pivoted to said intermediate frame, and a spindle pivoted to said inner frame.

2,657,694
HAIR CURLING DEVICE
Raymond E. Reed and Joseph H. Brant, Arlington Heights, and Raymond J. Olson, Skokie, Ill., assignors to The Gillette Company, Boston, Mass., a corporation of Delaware
Application May 3, 1952, Serial No. 285,894
7 Claims. (Cl. 132—41)



1. In a hair curler having a clasp member and a winding member rotatable about its own axis

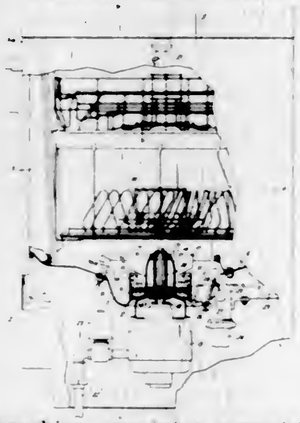
relative to the clasp member, the combination of a sleeve element which in operative position overlies at least a portion of the winding member so as to increase the effective wrapping surface thereof, said element being slotted from one end thereof and being removable from the winding member with the clasp member in closed position.

2,657,695

DISHWASHING APPARATUS PROVIDED WITH CENTRIFUGAL SEPARATION SUMP

Forrest A. Walker, Wheaton, Ill., assignor to General Electric Company, a corporation of New York

Application August 24, 1946, Serial No. 692,813
2 Claims. (Cl. 134—111)



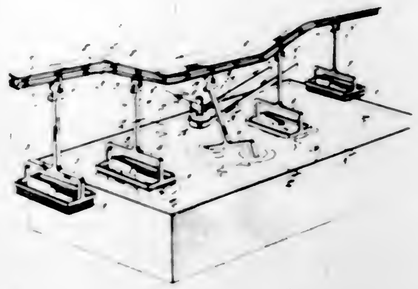
1. Dishwashing apparatus comprising a vat having four upright side walls defining a washing chamber substantially rectangular in horizontal cross-section, and also having a depressed bottom wall, an impeller rotating in the depressed bottom wall on an axis substantially coinciding with the central vertical axis of said chamber, said impeller having blades which engage cleansing liquid in said bottom wall so as to hurl it upwardly and outwardly toward said side walls and with a general rotary motion about said axis, said bottom wall having a still deeper depressed section at the center thereof, said section including an upwardly and outwardly directed first wall element and an upwardly and inwardly directed second wall element and a connecting curved third wall element cooperating to define an annular sump surrounding said impeller, the lowermost portion of said sump being located below said impeller and exteriorly of the sweep thereof, an upstanding cylindrical screen surrounding said impeller at the inner portion of said sump to prevent the passage of food particles with the liquid into said impeller, said impeller rotating the liquid in said sump so that said sump constitutes a centrifugal separation space causing the food particles suspended in the rotating liquid by the action of centrifugal force to move outwardly therein away from said screen toward said first wall element, said bottom wall arranged above said section directing the liquid returning by gravity from said side walls back into the upper portion of said sump and inwardly toward said screen causing turbulence in the rotating liquid in said sump to settle out the suspended food particles into said lowermost portion of said sump, said first wall element having a drain port formed therein adjacent to said lowermost portion of said sump, and a valve controlling said drain port.

2,657,696

CONVEYER MECHANISM

Jacob E. von Maur, Upper Arlington, Ohio, assignor to Metalwash Machinery Company, Elizabeth, N. J., a copartnership

Application July 21, 1951, Serial No. 237,867
2 Claims. (Cl. 134—127)



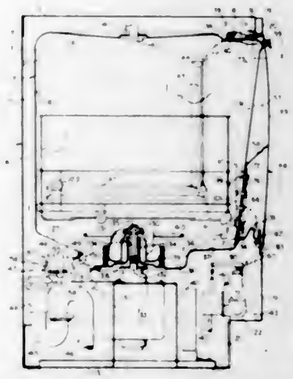
1. In an overhead conveyor system, an I-beam track, a power conveyor supported by said I-beam track, work supporting members attached to said conveyor at suitable intervals along said conveyor, said work supporting members being laterally pivotally attached to said conveyor at their upper ends and including a basket at their lower ends, a belt traveling at least as fast as said work supporting members intersecting a portion of the path of travel of said work supporting members and arranged so that the work supporting members are engaged by and biased to one side to tip said basket until they have passed beyond said traveling belt.

2,657,697

DISHWASHING APPARATUS AND CABINET STRUCTURE

Forrest A. Walker, Wheaton, Ill., assignor to General Electric Company, a corporation of New York

Application October 30, 1948, Serial No. 57,448
24 Claims. (Cl. 134—182)



1. In washing apparatus, a vat provided with a forwardly directed doorway terminating in a substantially vertically disposed front opening, said doorway having a bottom flange and opposed side flanges, said bottom flange being provided with an upwardly directed ledge extending between said side flanges and terminating adjacent to said front opening, a single door substantially commensurate with said front opening, and hinge mechanism arranged within said doorway rearwardly of said ledge and positioned between said bottom flange and the lower portion of said door for supporting said door upon said vat and for mounting said door within said doorway for movements with respect to said front opening between a substantially horizontal open position and a substantially vertical closed position, the lower portion of said door being arranged in straddling relation with respect to said ledge so that the lower inner edge of said door is disposed rearwardly of and below said ledge and the lower outer edge of said door is disposed forwardly of and below said ledge when said door occupies its closed position.

8. In washing apparatus, a vat provided with top and bottom walls and opposed side walls terminating in a forwardly directed doorway, said doorway having top and bottom flanges and opposed side flanges, said flanges terminating in a substantially vertically disposed front opening, said bottom flange being provided with an upwardly directed ledge extending between said side flanges and terminating adjacent to said front opening, a single door substantially commensurate with said front opening, hinge mechanism for supporting said door upon said vat and for mounting said door within said doorway for movements with respect to said front opening between a substantially horizontal open position and a substantially vertical closed position, the lower inner edge of said door being disposed rearwardly of and below said ledge when said door occupies its closed position, means for producing a spray of washing fluid in said vat when said door occupies its closed position, a top door baffle and opposed side door baffles carried by said door and projecting rearwardly in respective cooperating relation with said top and side flanges when said door occupies its closed position, said side door baffles projecting rearwardly from within said doorway into said vat when said door occupies its closed position, and opposed side wall baffles carried by said side walls and projecting inwardly into respective cooperating relation with said side door baffles when said door occupies its closed position, said side door baffles and said side wall baffles being arranged in non-scraping relation to permit ready movements of said door and cooperating when said door occupies its closed position to limit the admission of said washing fluid into said doorway, said top and side door baffles and said top and side flanges being arranged in non-scraping relation to permit ready movements of said door and cooperating when said door occupies its closed position to prevent the escape from said front opening of any substantial quantity of said washing fluid entering said doorway.

2,657,698

QUENCHING APPARATUS

James W. Garrett, Philadelphia, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania

Application August 27, 1947, Serial No. 770,785
6 Claims. (Cl. 134—122)

1. In a quenching device, the combination of a first annular member having an axially extending portion and a radially extending portion, said radial portion extending inwardly and curving toward an axial direction to form a substantially conical surface, a second annular member also having an axially extending portion smaller in diameter than the axially extending portion of said first member and a radially extending portion, the radially extending portion being received in the axially extending portion of the first member, said members cooperating to form an annular chamber, the axially extending portion of said second member being provided with means forming a substantially conical surface substantially parallel to said first-mentioned surface whereby a conical passage is formed between said surfaces, the surface on said means



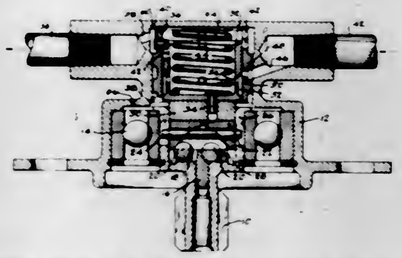
continuing in a smooth curve radially inward of said first mentioned radial portion until it is substantially axial and terminating in a sharp edge, means through which liquid can be introduced into said chamber to flow through said passage and along said last mentioned surface into a cylinder or sleeve, and annular baffle means between the entrance for said liquid and the entrance of said passage.

2,657,699

FLUID PRESSURE SPEED SENSING DEVICE

Hillard E. Barrett, East Orange, Samuel J. Hall, Lodi, and William C. Schaffer, Fair Lawn, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware

Application January 29, 1949, Serial No. 73,562
1 Claim. (Cl. 137—53)



Speed sensing mechanism comprising a housing; a rotatable first member extending into said housing; a rotatable second member disposed within said housing; means within said housing providing a rotationally rigid driving connection between said members while permitting axial movement of said second member relative to said first member; at least one ball disposed within said housing between said members and offset from the axis of rotation of said members; means for insuring rotation of said balls with said members about said axis; a conical surface on and co-axial with one of said members and engageable by each said ball so that the centrifugal force acting on each said ball subjects said second member to an axial force; a third member disposed within said housing co-axial with and

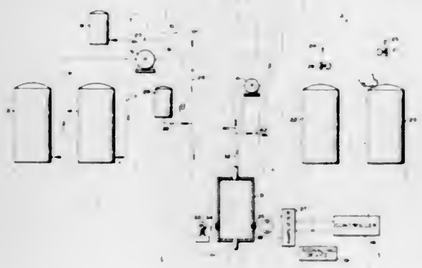
axially movable with said second member; means within said housing for preventing rotation of said third member; a thrust bearing in said housing between said second and third members for transmitting axial motion of said second member to said third member; means for supplying a fluid under pressure into said housing for subjecting said third member to a fluid pressure force opposing said axial force, said second and third members being axially movable in response to unbalance of the forces thereon; and valve means disposed within said housing and automatically controlled by axial movements of said third member for respectively increasing or decreasing the magnitude of said fluid pressure in response to axial movements of said third member in or opposite to the direction of said axial force whereby the magnitude of said fluid pressure respectively increases and decreases with increase and decrease in the speed of rotation of said first and second members.

2,657,700

METHOD OF AND APPARATUS FOR SEGREGATING FLUIDS TRANSPORTED BY A PIPELINE

Gardner C. Ray, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application November 14, 1949, Serial No. 126,992
11 Claims. (Cl. 137—93)



1. The process for controlling passage of fluids through a pipeline which comprises introducing a first fluid and a second fluid successively into the pipeline inlet, introducing a reagent with the first part of the second fluid, qualitatively determining the presence of said reagent at the pipeline outlet, and regulating the fluid flow in response to the determination of the presence of said reagent.

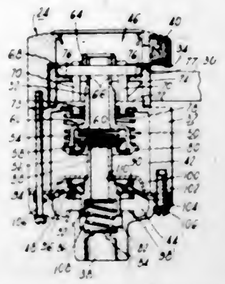
2,657,701

FLUID CONTROL VALVE

Edward E. Hupp, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application May 21, 1949, Serial No. 94,697
17 Claims. (Cl. 137—102)

6. In a control valve having a control chamber and a vacuum chamber, a flexible diaphragm separating said chambers from each other, a vacuum tube carried by said diaphragm and having one end disposed in said control chamber and the other end disposed in said vacuum chamber, a controllable air tube device operatively associated with said vacuum tube and arranged to control communication between said chambers, such communication being afforded by means of said vacuum tube, said air tube device including valve means which controls communication of vacuum



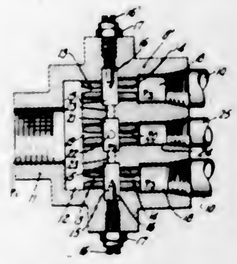
and of air at atmospheric pressure to said control chamber, and means for controlling said device.

2,657,702

FLOW DISTRIBUTOR

Charles O. Weisenbach, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application November 7, 1949, Serial No. 125,909
17 Claims. (Cl. 137—118)



1. A device for dividing a stream of fluid under pressure into a plurality of individual streams, comprising a housing adapted to be interposed in the stream to be divided and having an input side and a discharge side and pairs of substantially axially aligned flow orifices connecting the input and discharge sides, there being a pair of orifices for each individual stream with the orifices of each pair spaced axially to provide a chamber therebetween, the orifices on the discharge side having an effective flow area at least as great as the effective flow area of the orifices on the input side.

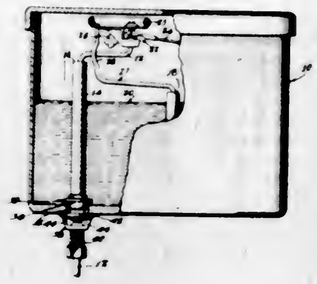
2,657,703

ISOLATING TUBE

Ralph Edwin Bletcher, Los Angeles, Calif.

Application February 24, 1950, Serial No. 146,072
6 Claims. (Cl. 137—215)

1. In a device for isolating potable water from polluted water in a flush tank, the combination of: a supply tube which projects into said tank, a ball cock mounted in said flush tank at the upper extremity of said supply tube having a discharge opening, an overflow tube in said flush tank, an isolating member surrounding said supply tube and isolating said supply tube from water in said tank with the ball cock discharge opening positioned above the upper extremity of said isolating member, the upper extremity of said isolating member being open to the atmosphere and located above the upper extremity of said overflow tube, and means for venting the



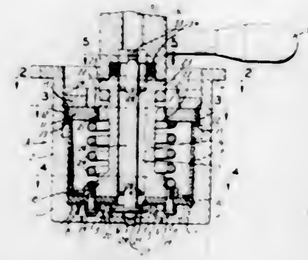
lower extremity of said isolating member to the atmosphere.

2,657,704

VALVE

Arthur J. Fausek and Irwing F. Fausek, Clayton, Mo.

Application December 29, 1947, Serial No. 794,272
7 Claims. (Cl. 137—321)



3. A valve comprising a body portion provided with a side wall and a bottom wall, said bottom wall having an aperture formed therethrough, a valve seat projected from said bottom wall, a diaphragm closure member secured at its margin and disposed within said body portion and making sealing contact with said valve seat, an elongated element disposed within said body portion and attached to said diaphragm closure member, projections formed on said elongated element, said elongated element having a passageway formed therethrough which is maintained out of communication with said aperture by contact of said diaphragm closure member with said valve seat, resilient means which tends to move said elongated element so as to cause said diaphragm closure member to tightly engage said valve seat, and a fitting which is operable to elevate said elongated element relative to the body portion of the valve so as to raise said diaphragm closure member from said valve seat and thereby place the passageway through said elongated element and said aperture in communication with each other, and an elongated member disposed in the passageway formed through said elongated element which engages the bottom wall of said body portion at one end and is adapted to be engaged at its opposite end by said fitting, said fitting being provided with cam faces which engage said projections of said elongated element and elevate said elongated element on movement of said fitting.

2,657,705

REMOTELY CONTROLLABLE CRANKCASE DRAIN VALVE

August A. Gerhard, Wauwatosa, Wis., and Willard A. Klemme, Broadview, Ill.

Application October 19, 1950, Serial No. 191,054
5 Claims. (Cl. 137—351)



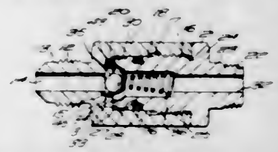
1. A remotely controllable crankcase drain valve, comprising: a plug having a head portion and a threaded stem portion, the latter being adapted to be screwed into a crankcase drain port, said plug having a bore axially therethrough and its head portion being axially shorter than its threaded stem portion; a flat slide valve having a hole therethrough; retaining means on the plug holding the flat slide valve in position for endwise sliding movement across the bottom face of the plug between an open position at which the hole in the slide valve registers with the mouth of the bore in the plug and a closed position at which the slide valve closes the mouth of the bore; a sealing ring encircling the mouth of the bore and clamped between the plug and the top face of the slide valve; a spring acting on the slide valve to yieldingly urge the same to its closed position; means for moving the slide valve against the force of the spring including a flexible Bowden wire having a flexible driving element slidable within a flexible sheath; means connecting one end of the driving element of the Bowden wire to the slide valve; a supporting arm having a hole through which the threaded stem portion of the plug passes so that when said stem is screwed into a crankcase drain port the supporting arm is clamped between the head portion of the plug and the crankcase; and means on the arm anchoring the adjacent end of the sheath of the Bowden wire thereto, whereby said valve may be controlled from a point remote therefrom.

2,657,706

HYDRAULIC BREAK FUSE

Robert L. Stevenson, Barrington, R. I., assignor to Anco, Inc., a corporation of Rhode Island

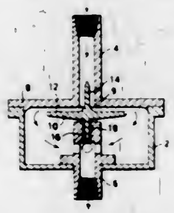
Application May 12, 1951, Serial No. 226,023
3 Claims. (Cl. 137—460)



1. A hydraulic break fuse consisting of a main body portion adapted to be connected to a fluid system by a reduced end portion, a passageway located in said reduced end portion, a thread area in said main body portion in the end opposite the reduced end portion, a thread relief ring at the base terminus of said thread area, a counter-bored area adjacent the thread relief ring terminating in a reduced area adjacent said passageway, an auxiliary body having threads adapted to engage with said main body portion threaded area, a thread relief ring at the base of said threads, a shank adjacent said threads engaging said main body portion, said shank having a reduced end, a recessed annular ring in said

shank adapted to receive a packing, engaging said counterbored area, a reduced area on the outboard end of said auxiliary body adapted to be connected to the pressure line of said fluid system, a passageway in said reduced area terminating in a spring housing passageway counterbored on one end, a spring ring provided with legs having prongs projecting therefrom, a ball seat formed in the ends of said legs, a ball, seated in said ball seat, said spring ring adapted to engage said shank and a spring in said spring housing passageway adapted to engage said ball.

2,657,707
FLUID CONTROL APPARATUS
John Holton McGinn, Philadelphia, Pa.
Application September 10, 1949, Serial No. 115,029
9 Claims. (Cl. 137—504)



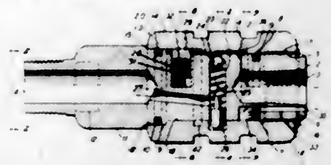
1. Flow controlling means comprising a housing having a fluid inlet passage, means providing a surface having an orifice therein through which fluid from said inlet passage enters the interior of the housing, a movable disc having a surface facing said orifice and the portions of the first mentioned surface surrounding the orifice, said orifice having a substantially sharp edge disposed in a plane and adjacent to the disc, and said disc face having an effective diameter at least twice the effective diameter of said orifice, and means for guiding said disc for movements in the general direction of flow through said orifice, the edge of the disc being substantially clear of the housing throughout its range of movement to provide free radial exit of the fluid flowing outwardly between the disc and the first mentioned surface.

2,657,708
PULSE JET MOTOR FUEL INLET VALVE CONSTRUCTION
Wunibald I. E. Kamm and Willy F. Krautter, Dayton, and Kurt Staiger, Wright-Patterson Air Force Base, Ohio
Application November 28, 1949, Serial No. 129,862
5 Claims. (Cl. 137—512.1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An inlet valve construction comprising a valve supporting plate having a plurality of valve receiving depressions formed in its topside, having inlet openings extending through the plate in communication with the valve receiving depressions at the centers thereof; a valve retainer plate fixed in parallel spaced relation above the topside of the valve supporting plate, having valve engaging projections thereon facing toward the valve receiving depressions in substantailly axial alignment with the centers of the valve receiving depressions and formed with a plurality of outlet openings extending therethrough from the space between the valve supporting and retainer plates; lightweight cup-shape thin walled valves disposed intermediate the valve receiving depressions and the aligned valve engaging projections for free oscillatory movements between the supporting and retainer plates, said valves being formed with outer and inner spherical contour surfaces for seating respectively in the valve receiving depressions, and on the valve engaging projections and leaf spring means carried by each of the valve engaging projections in spaced relation to the valves when seated in said depressions and projecting into the path of movement of each valve toward the valve engaging projections to be tensioned thereby upon movement of the valve toward the valve engaging projections to assist in return of the valves toward the valve receiving depressions.

2,657,709
VALVE
Hilmer A. Gillerstrom, Arcadia, and Raleigh O. Canning, Norwalk, Calif., assignors to Independent Pneumatic Tool Co., Aurora, Ill., a corporation of Delaware
Application March 25, 1952, Serial No. 278,382
20 Claims. (Cl. 137—614.2)

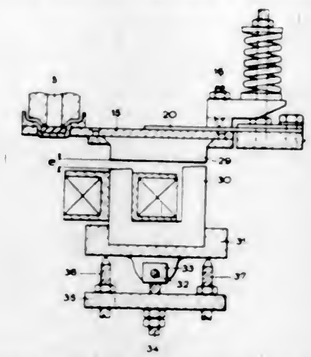


1. In a supply valve for a rock drill feed leg, a generally cylindrical valve body member having an inlet port at one end and an outlet port at the opposite end and passage means interconnecting said ports, a spring biased, normally closed valve means in said body member interposed in said passage means, said valve means being constructed and arranged to be opened by inlet pressure, a valve-operating element comprising a sleeve mounted for rotation on the exterior of said body member and having a cam surface on the inner surface thereof effective at different rotative positions of said sleeve on said body member to vary the spring bias on said valve means, and sealing gaskets interposed between the adjacent surfaces of said body member and said sleeve to prevent escape of fluid from the valve.

2,657,710
VALVE OPERATING APPARATUS
André Latour, Grenoble, France, assignor to Etablissements Merlin & Gerin, Grenoble, France
Application July 23, 1947, Serial No. 763,022
In France January 9, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires January 9, 1965
5 Claims. (Cl. 137—719)

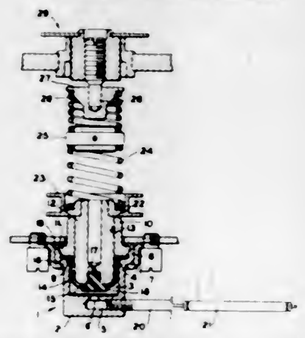
1. Valve operating apparatus comprising, in combination, a lever for closing and opening a valve; a pair of pins fixed to said lever and each having a free pointed end portion located on one side of said lever; a stationary support having a flat surface portion engaging said pointed end portions of said pins to form for said lever a turning axis located in the plane of said flat surface portion; and a leaf spring fixedly connected

to said lever and said flat surface portion of said stationary support, extending in said plane of the latter across said turning axis, and including said



turning axis for preventing movement of said lever by forces acting in said plane for limiting said lever to movement about said axis.

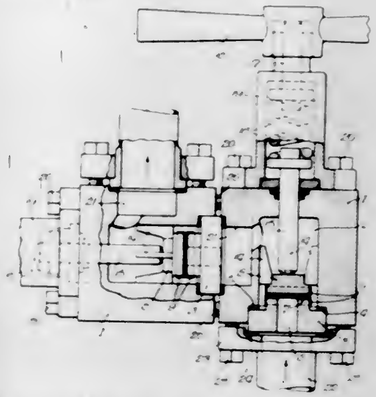
2,657,711
ACTUATING MECHANISM
Earnest J. Dillman, Detroit, Mich., assignor to Detroit Controls Corporation, a corporation of Michigan
Application March 23, 1948, Serial No. 16,541
7 Claims. (Cl. 137—789)



1. An actuating mechanism comprising a casing, a passageway opening into said casing, a piston slidably fitting and guided in said passageway and extending into said casing, said piston having an end cavity, a hollow septum member having a closed end wall and fitting around said piston and having its open end portion secured and sealed around the edge of said passageway, said septum being operable to move and partially fold upon itself in response to pressure within said casing thereby to move said piston, and means operable to hold said septum end wall against lateral movement during movement of said piston, said last-named means including a plug portion on said end wall cooperating with said piston cavity.

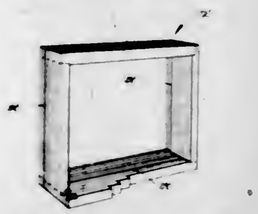
2,657,712
FLOW REGULATOR
Charles R. Huston, Chicago, Ill., assignor to Cherry-Burrell Corporation, Wilmington, Del., a corporation
Application October 29, 1949, Serial No. 124,385
2 Claims. (Cl. 138—43)

1. A homogenizing valve comprising in combination a valve seat, a valve head opposed thereto, and cooperating therewith, and fluid flow obstructing and disturbing means interposed between said seat and said head, said means comprising two perforated members, one of which is removably secured to said valve seat and the other of which is removably secured to said valve head.



2. A homogenizing valve comprising in combination a valve seat, a valve head opposed thereto, and cooperating therewith, and fluid flow obstructing and disturbing means, said valve seat being provided with a central bore for supplying liquid to be treated, and said fluid flow obstructing and disturbing means being provided with a central port substantially aligned with and of substantially the same cross sectional size as said central bore, said valve seat being at an angle of substantially 90 degrees to the axis of said central bore.

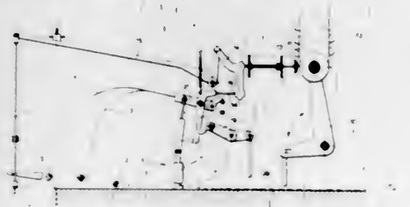
2,657,713
WOOD CULVERT HAVING LAMINATED WALL SECTIONS
Carl T. Jensen, Minneapolis, Minn., assignor to Wheeler Lumber Bridge and Supply Co., Des Moines, Iowa, a corporation of Iowa
Application November 20, 1948, Serial No. 61,150
1 Claim. (Cl. 138—79)



A culvert made up of top, bottom, and side wall sections, each of said sections being laminated and made up of pieces disposed side by side, each piece having an inner surface, an outer surface, opposed end surfaces, and disposed side surfaces, each piece in each section having a notch cut therein at only one end and in the inner surface thereof, each notch having two walls, one of which is parallel to the inner surface and the other wall being perpendicular to said one wall, and each notch opening out of the end of the piece, adjacent pieces in each wall section being arranged with said notches disposed at alternately opposite ends of said wall section, the end of each piece opposite the end with said notch therein being positioned in the notch of one of

the pieces of a section of the adjoining wall, each piece overlapping the notch formed in the adjacent piece and engaging the side of the piece in the adjoining wall which enters the notch in said adjacent piece, and means extending through a plurality of said pieces clamping said pieces together to form one of said wall sections.

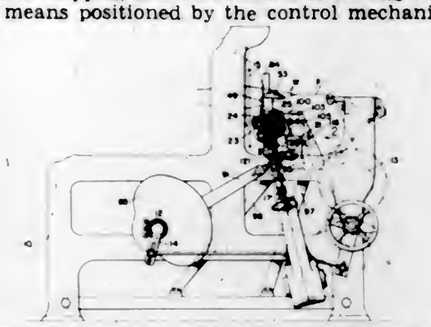
2,657,714
NEEDLE LOOM
Mariano Ballber, Paris, France
Application October 4, 1948, Serial No. 52,647
Claims priority, application France July 16, 1948
7 Claims. (Cl. 139—123)



1. A shuttleless weaving loom of the type including a pair of substantially horizontally extending, eyeless weft needles disposed symmetrically on either side of said loom and each fixed at one end of a respective metal strip adapted to be extended horizontally transversely to said loom and whose other end is attached to a related swinging sector on which said metal strip is adapted to be wound, comprising: a batten to which both said sectors are attached; said needles each being formed with a vertical slit at the front end thereof and being adapted to seize sideways an uninterrupted weft thread extending generally in the horizontal plane defined by said needles thereby inserting in turn a double weft throughout the width of a corresponding shed; means for horizontally positioning a weft thread in said horizontal plane thereby allowing said thread to be seized by the related needle prior to insertion within said shed; clamping means for clamping said weft thread; means for actuating said clamping means when said weft thread is seized by the related needle and for releasing said clamping means as said weft thread is passed through said shed; a pair of vertically slidable weft holders in the form of pointed rods arranged at either side of said loom; means for imparting a vertical reciprocating movement to said weft holders for inserting said weft holders into the vertical slit in the related needle and for retracting said weft holder from the closed shed prior to beating up; and tensioning means for securing tension of said weft thread in the shed when the related needle is retracted.

2,657,715
NARROW WARE LOOM
Elbridge R. Holmes, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application April 22, 1949, Serial No. 89,006
13 Claims. (Cl. 139—136)

1. In a narrow ware loom having warp controlling harness frames, a series of aligned shuttle blocks forward of the harness frames mounted as a group to be either in stationary normal weaving position adjacent to the harness frames or in non-weaving position forward of the normal position thereof and the harness frames, means locking said group in stationary normal position during loom operation, loom driving control mechanism in one position when the loom is operating and in another position when the loom is stopped, and a lock member for the locking means positioned by the control mechanism



when the latter is in said one position preventing the locking means from unlocking said group during loom operation but positioned by the control mechanism when the latter is in said other position incident to loom stoppage to permit the locking means to move to unlocking position to enable said group to move to said non-weaving position thereof.

2,657,716
INFLATABLE FABRIC SEGMENT OF CURVED CONFIGURATION
Charles J. Ford, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application October 28, 1950, Serial No. 192,721
7 Claims. (Cl. 139—410)



1. An inflatable fabric segment capable of assuming a curved configuration upon inflation, said fabric segment comprising a first ply of material which is capable of being stretched in one of its dimensions; a second ply of substantially inextensible material; a plurality of ties anchored to each of the plies for retaining them in predetermined spaced relation, said plies being sealed at their margins to form an envelope; and a gas-impervious coating on the exposed surfaces of each ply.

2,657,717
PRESHRUNK YARN OR FABRIC
Anton F. Burkardt, New York, N. Y., assignor to Sativa Corporation, a corporation of New Jersey
Application December 3, 1949, Serial No. 130,933
1 Claim. (Cl. 139—426)



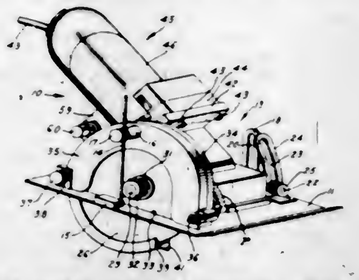
A fabric having substantially non-shrinkable qualities, said fabric being composed of dry-spun yarns, said yarns being blended in part of staples of degummed and substantially completely preshrunk flax or hemp fibrils, and in part of other shrinkable fibrils.

2,657,718
WIRE TWISTER
Ira L. Greathouse, Chula Vista, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California
Application August 31, 1951, Serial No. 244,490
3 Claims. (Cl. 140—93)



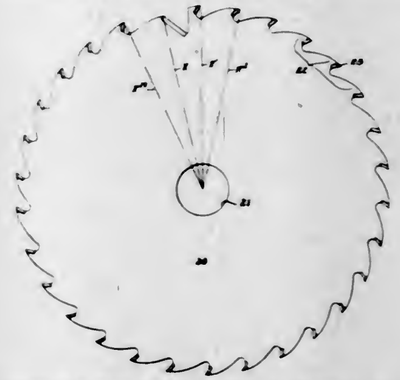
1. A tool adapted for twisting adjacent portions of a wire together comprising: a long thin sleeve having two oppositely disposed openings spaced from the upper end thereof, said openings being adapted to pass the wire therethrough; a hollow handle secured to the lower end of said sleeve and having a cylindrical bore; a rod slidable within said sleeve and having a guide flange slidable along said bore, said rod having at its upper end a pair of inwardly converging gripping faces; a spring within said handle arranged to cause said gripping faces to press the wire against the inside of said sleeve at the upper end of said openings; and a screw coaxial with said rod threaded into said handle and arranged to engage the lower end of said rod and apply a high upward pressure thereto.

2,657,719
ADJUSTABLE POWER-DRIVEN CIRCULAR SAW
Harold S. Forsberg, Shelton, Conn.
Application February 6, 1951, Serial No. 209,569
2 Claims. (Cl. 143—43)



1. In a power operated circular hand saw, a body, a shaft rotatably mounted on said body, a circular saw blade on said shaft at one side of said body, a motor secured to said body, a drive from said motor to said shaft for driving said circular saw blade, a gage plate at the under side of said body and extending beyond the front and side edges thereof and having a slot through which said blade extends, an arcuate guard secured to said body enclosing the outer side of that portion of said blade located above the gage plate, a vertical rod outwardly of said guard substantially normal to and intersecting the axis of said blade, a rod support on said guard having a vertical passage in which said rod is slidably adjustable vertically relative to said body, a hinged connection between the lower end of said rod and said gage plate, a pair of members respectively forwardly and rearwardly of the axis of said blade at the other side of said body and slidably adjustable vertically thereon, and means attaching the lower end of said members to said gage plate whereby the latter may be adjusted toward and from the lower side of said body.

2,657,720
SAW WITH PLANER TOOTH
Charles V. Wolfe, Indianapolis, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application July 9, 1949, Serial No. 103,795
1 Claim. (Cl. 143—140)

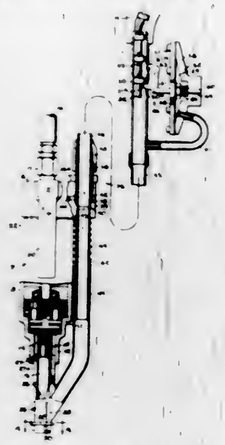


A circular saw comprising a discoid body, a series of cutting teeth spaced about the periphery of said body, each such tooth having a leading face having a transverse dimension greater than the thickness of said body and terminating in a sharpened end, said ends lying substantially in a common circle and the end of each tooth being located on one of a continuous series of equiangularly spaced radii, and a single planer tooth having a leading face having a transverse dimension greater than that of a cutting tooth and having its radially outermost end located radially inwardly from said common circle, said body being provided with an inwardly extending notch immediately in advance of the leading face of said planer tooth to balance such saw.

2,657,721
SCREW FEED AND DRIVE MECHANISM
Ernest H. Shaff, Hamilton, Ind., assignor to Keller Tool Company, Grand Haven, Mich., a corporation of Michigan
Application January 3, 1951, Serial No. 204,127
11 Claims. (Cl. 144—32)

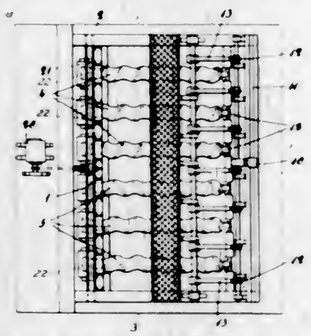
1. In a pressure fluid actuated screw driver adapted to be connected to a pressure fluid source and to a hopper or the like containing a supply of screws, the combination comprising a finder for holding a screw in position for application to a workpiece and means for feeding screws one at a time to said finder, said means including a

delivery passage interposed between the hopper and said finder, a pressure responsive escapement mechanism operatively associated with said passage to control the release of screws from said hopper to said passage, and an aspirator inserted in said passage and adapted for connection with



the pressure fluid source for operation as an incident to the application of pressure fluid to actuate the screw driver for effecting a pressure change in said passage to actuate said mechanism so as to release a screw for transmittal to the finder.

2,657,722
BARKING MACHINE
Tor Ove Hillbom, Rottneros, Sweden
Application March 22, 1949, Serial No. 82,747
1 Claim. (Cl. 144—208)



A barking machine comprising a log container having parallel side walls and two end walls, log charging means at one end of said container, log discharging means at the opposite end of said container, an inclined bottom structure consisting of a plurality of helically threaded rollers extending longitudinally and in parallel inclined relationship between said two end walls, and comprising two groups of rollers arranged one on each side of that midplane of the log container intersecting the end walls, the rollers of each group being threaded in the same direction and the rollers of different groups being threaded in opposite directions, means for rotating the rollers of each group in the same direction, and means for rotating the rollers of different groups in opposite directions, whereby to cause logs piled up transversely of the rollers to be moved toward the outlet end of the container while being repeatedly engaged by the threads of the rollers, whereby to effect both a longitudinal and a lateral reciprocating action on said logs.

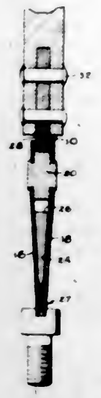
2,657,723
KNIFE BLADE MOUNTING FOR CHIPPERS
Charles A. Johnson, Berlin, N. H.
Application October 20, 1950, Serial No. 191,265
4 Claims. (Cl. 144—219)



1. A rotary chipper disc having a working face, a knife blade receiving recess in said face, said recess being of V-shaped cross-section and formed by leading and following walls converging inwardly from the face of the disc, both of said walls being angularly related to said disc face and both being inclined in the direction of cutting rotation of said disc, a wedge-shaped blade clamping member having opposed surfaces bearing the same angular relationship as that of said converging walls, said clamping member having an internally countersunk recess on its inner edge, and co-operating fastening means extending from said clamping member through the back wall of said disc and seated in the countersink of said clamping member recess and against a back surface of said disc, respectively for wedging said clamping member against a flat blade lying against said leading angularly related disc wall with the cutting edge of the blade projecting beyond the face of the disc, the exposed face of said clamping member in wedging position being disposed inwardly of the plane of revolution of said cutting edge in rotation of said disc.

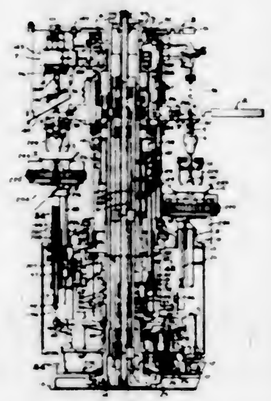
2,657,724
EXPANDING BIT SCREW DRIVER
Ernest H. Shaff, Hamilton, Ind., assignor to Keller Tool Company, Grand Haven, Mich., a corporation of Michigan
Application February 10, 1951, Serial No. 210,411
1 Claim. (Cl. 145—50)

A screw driver comprising, in combination a shank having an elongated longitudinally disposed slot therein, a bit including a pair of flat elongated resilient blades, and an axially elongated carrier block disposed within and longitudinally slidable in said shank slot with its sides slidably engaging the sides of said slot to constrain the same to axial movement with respect to said shank, said blades being fixed adjacent their rear ends to said carrier block on opposite sides of said shank and converging toward each other toward their outer ends, said bit being normally outwardly disposed with respect to said shank, an elongated wedge rigid with said shank outwardly of said slot and interposed between said blades to spread said blades apart upon outward axial movement of said shank with respect to said bit, and a spring disposed in said slot inwardly of said block, said spring being com-



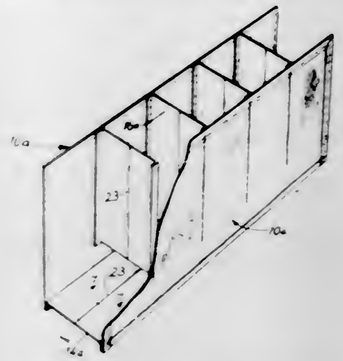
pressed upon outward axial movement of said shank with respect to said bit for restoring said shank and bit to their normal relative positions.

2,657,725
FRUIT PROCESSING MACHINE
Guy A. Dunn, Oakland, Calif., assignor to California Packing Corporation, San Francisco, Calif., a corporation of New York
Application April 25, 1949, Serial No. 89,471
23 Claims. (Cl. 146—33)



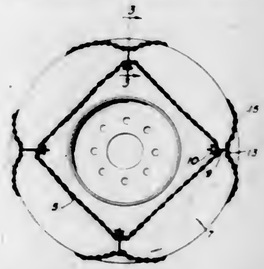
1. In a machine of the character described, the combination of a rotating member, a reciprocating member, a cam means operatively connecting the rotating member with the reciprocating member, the said cam means including a primary cam means and a secondary cam means, means for driving the primary cam through a multiple of rotations for each revolution of the rotating member, a cam follower within the cam path of the primary cam and operatively connected with the reciprocating member, the secondary cam having a movable cam segment, a cam follower arranged to follow in the cam paths of the secondary cam and the movable cam segment, and means for driving the movable cam segment of the secondary cam from the primary cam during the travel of the secondary cam follower through the cam path of the movable cam segment.

2,657,726
COMPARTMENTED INSERT FOR BRIEF BAGS
Sol B. Silverman, Chicago, Ill., assignor to Northwest Leather Goods Co., Chicago, Ill., a corporation of Illinois
Application May 2, 1950, Serial No. 159,449
2 Claims. (Cl. 150—30)



1. A compartmented insert for a brief bag comprising a pair of spaced-apart, parallelly disposed, self-supporting side panels, a bottom panel extending between said side panels and hingedly secured thereto, and having a weakened central zone to facilitate folding upwardly of said bottom panel to a position intermediate said side panels, said side panels and bottom panel being coextensive lengthwise, a plurality of transverse dividing panels extending between said side panels and hingedly secured thereto, each said transverse panel having a weakened central zone aligned with said first-mentioned weakened zone to facilitate folding of said dividing panels simultaneously with the folding of said bottom panel, said transverse panels terminating short of the bottom panel a distance approximately equal to one-half the width of the bottom panel to clear the folded bottom panel, the endmost dividing panels being spaced inwardly of the ends of said side and bottom panels to provide a pair of four-walled end compartments and a plurality of five walled inner compartments, and the entire assembly being collapsible upon the folding of said panels.

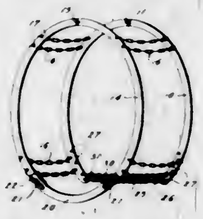
2,657,727
TIRE CHAIN
Alfred Peterson, Lyford, Tex.
Application August 8, 1951, Serial No. 240,848
1 Claim. (Cl. 152—241)



A tire chain comprising the combination of an inner circumferential side chain and an outer circumferential side chain, a plurality of pairs of cross chains, and a connector for each pair of cross chains for connection with its respective

circumferential side chain and including a bolt passing through one of the links of said respective circumferential chain, a nut threaded on one end of the bolt to hold said respective circumferential chain on said end of the bolt, and a plate on the other end of the bolt and to which the pair of cross chains are attached, said bolt being positioned radially with respect to a tire on which the chain is mounted and passing through the center of the plate, said cross chains being attached to the opposite end portions of the plate, and said plate bearing edgewise against the side of the tire to space the bolt therefrom and to reduce lateral strain subjected to the bolt by the cross chains.

2,657,728
TIRE CHAIN DEVICE
Robert E. Jackson, Wellesley, Mass.
Application April 5, 1949, Serial No. 85,575
12 Claims. (Cl. 152—242)



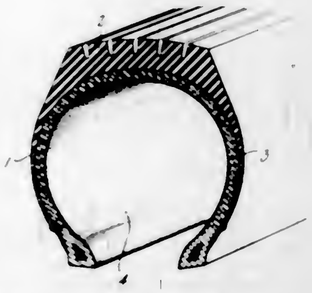
1. A tire chain device comprising a pair of inner and outer rigid arcuate side members adapted to be disposed on opposite sides of a tire, and carrying a plurality of chain cross-links adapted to span the tread of the tire transversely, each set of arcuate side members comprising two sections pivotally connected at adjacent ends and terminating short of a full circle, a rigid segment for connecting the free ends of said inner set of side members, and a resilient link for connecting the free ends of said outer set of side members, said segment and resilient link carrying no chain cross-links.

2,657,729
PUNCTUREPROOF TUBE AND SEALING MATERIAL THEREFOR
Kenneth V. Hardman, Upper Montclair, and Arthur J. Lang, Cedar Grove, N. J., assignors to H. V. Hardman Company, Inc., a corporation of New Jersey
Application June 27, 1950, Serial No. 170,594
4 Claims. (Cl. 152—347)



1. A tube for a puncture-proof pneumatic tire comprising a tubular element of vulcanized rubber material, a gummy mass disposed as a layer over the side of the said element that is towards the road during use in a tire, and a sheet of vulcanized material disposed over the gummy mass and enclosing it between the said sheet and element, the gummy mass comprising heat depolymerized rubber and a gelling agent and the gelling agent being used in proportion to produce a gummy mass with the depolymerized rubber but less than the amount causing the gummy mass to become rigid during use on long contact with the vulcanized material.

2,657,730
PNEUMATIC TIRE AND METHOD OF MAKING SAME
George R. Cuthbertson and Howard M. Buckwalter, Detroit, and Arthur C. Danielson, Royal Oak, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application July 31, 1951, Serial No. 239,564
11 Claims. (Cl. 152—354)



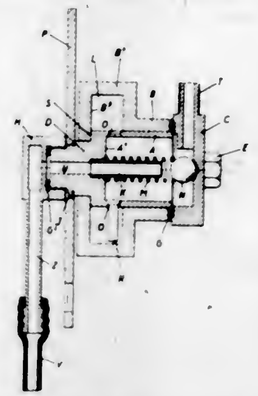
1. A pneumatic tire having vulcanized rubber side wall in which a nickel dialkyl dithiocarbamate has been incorporated prior to vulcanization, and a vulcanized rubber carcass containing a primary aryl diamine.

5. A method of making a pneumatic tire which comprises incorporating a nickel dialkyl dithiocarbamate in a raw vulcanizable rubber side wall stock, assembling the stock in a pneumatic tire casing including a vulcanizable rubber carcass stock, vulcanizing the assembly, and incorporating a primary aryl diamine in the carcass of the vulcanized assembly by applying the said diamine to the exterior surface of the band ply of the vulcanized carcass, whereby the said diamine diffuses into the carcass.

2,657,731
LUBRICATED ROTARY JOINT FOR TIRE INFLATION
Giovanni Gozzoli, Bologna, Italy
Application October 31, 1951, Serial No. 254,180
4 Claims. (Cl. 152—417)

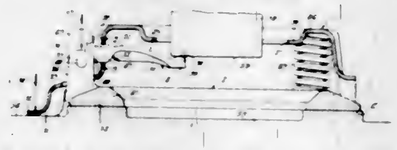
1. A rotary joint comprising a fixed housing having a cylindrical bore closed at one end and an enlarged hollow part at the other end, a tubular nipple attached to the closed end of the bore, a hollow cylindrical body rotatably mounted within said housing and having a fluid-tight fit with the cylindrical bore of said housing and with the end of the enlarged hollow part, a bottom closing one end of said body and ending with a projecting part outside of said housing, a substantially axial bore through said bottom, a nippled cap tightly fitted at the end of said projecting part of said body, means for fastening said body to the hub of a vehicle wheel provided with tires, means connecting the said nipple of the housing to a source of a compressed air, means connecting the nipple connected to the rotary body to a valved tire-inflating tube, and communication means between the hollow part

of the rotary body and the enlarged hollow part of said housing whereby said enlarged hollow part, together with the periphery of the rotary



body forms an annular chamber into which oil can be introduced so as to lubricate, and under air pressure effect an oil seal of the joints between the rotary body and the fixed housing.

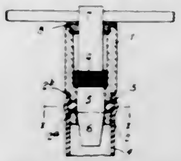
2,657,732
METHOD AND APPARATUS FOR ADJUSTING CLUTCH RELEASE LEVERS
Reinhold C. Zeidler, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 24, 1948, Serial No. 16,831
5 Claims. (Cl. 153—48)



1. A method of setting the position of the inner operating ends of the levers in a clutch assembly, which consists in placing the assembly on a fixture to hold the levers against movement relative to the other parts of the assembly, and the other parts of the assembly against relative movement to maintain the levers and other parts of the assembly in fixed relation and then applying bending stress in an axial direction to the ends of the separate levers to simultaneously impart a permanent set to the levers with their ends all disposed in a common plane at substantially right angles to the longitudinal axis of the assembly.

5. The method of positioning in predetermined relationship the radially inner extremities of the operating levers of a clutch assembly including two drive members connected to each other for conjoint rotation and relative axial movement and in which the levers are pivotally attached to one member and fulcrumed on the other member, said method comprising the steps of holding the drive members against relative axial movement, and applying forces to the radially inner extremities of the separate levers to simultaneously bend regions of said levers beyond their elastic limits with sufficient pressure to impart a permanent set to the levers and thereby position the radially inner extremities of the levers in a predetermined relationship with respect to each other.

2,657,733
TOOL FOR MAKING A CIRCUMFERENTIAL BEAD OR SWAGE OF PREDETERMINED SIZE IN METAL PIPES
William Robert Champion, deceased, late of Croxley Green, England, by Mary Ann Champion, Croxley Green, and Jack Kenneth Carpenter, Watford, England, executors
Original application February 21, 1946, Serial No. 649,202, now Patent No. 2,582,746, dated January 15, 1952. Divided and this application February 28, 1951, Serial No. 213,264
Claims priority, application Great Britain April 30, 1945
1 Claim. (Cl. 153—73)

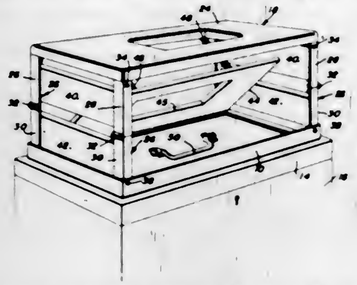


A tool for making a circumferential bead or swage of predetermined size in ductile metal pipes comprising a mandrel having a threaded section of greater diameter than that of the rest of the mandrel, a sleeve having a threaded axial bore for engagement by the threaded section on the mandrel, the length of the threaded bore relative to the width of said threaded section being such that the mandrel may be turned and moved axially relatively to the sleeve, a guide cap fitting over the bore and having an axial hole through which one end of the mandrel projects, the cap and said threaded section of the mandrel also serving to limit the outward movement of the mandrel, means on the projecting end of the mandrel for effecting the manual operation of the expander, a coned section at the other end of the mandrel and a plane cylindrical section between the threaded section and the coned section, an extension of reduced diameter at the end of the sleeve opposite to the guide cap, a shoulder between the sleeve and the extension so that the extension may be inserted into the bore of a pipe or tube to be swaged with the shoulder abutting the end of the pipe or tube, transverse apertures in the extension and an expanding element in each aperture, the arrangement being such that as the mandrel is screwed continuously into the sleeve the coned section thereof engages the elements which are forced outwardly to form a circumferential swage of predetermined size, the plane cylindrical part of the mandrel finally engaging the elements to gauge the final projection of the swage.

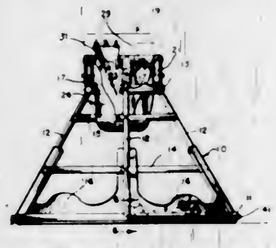
2,657,734
TACKLE BOX SEAT
Earl S. Frost, Arapahoe, Nebr.
Application August 31, 1951, Serial No. 244,563
6 Claims. (Cl. 155—2)

1. A collapsible seat for tackle boxes that will permit access to the hand grip on the top wall of a tackle box on which the seat is mounted, said seat comprising a base frame having a central opening, a seat frame having a central opening in registry with the opening in the base frame, legs connecting the base and seat frame together, each of said legs including upper and lower hingedly connected sections, said upper sections being pivoted to the seat frame and said lower sections being pivoted to the base frame, said legs being arranged in forward and rear pairs, brace members connecting the rear legs to the

forward legs, and means pivotally carried by the base frame and engaging the brace members for retaining the legs extended, said means including a rigid member having a central opening, said sections clearing the openings in the frames and the rigid member when the sections are folded under the seat frame.



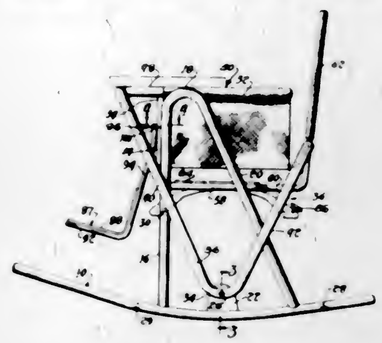
2,657,735
BABY WALKER
John A. Hughes, Chicago, Ill.
Application September 23, 1950, Serial No. 186,349
3 Claims. (Cl. 155—24)

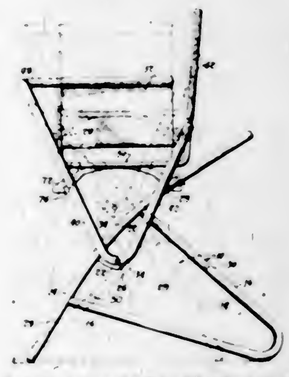


3. A baby walker comprising a substantially truncated conical frame structure, a plurality of upright elements supported on said frame structure, a seat supporting member comprising a rigid annular member having a plurality of depending elements cooperating with said upright elements and adapted to render said seat supporting member adjustable vertically, a flexible seat removably secured to said rigid annular member and suspended from said annular member, said seat having an upper tubular body portion circumferentially encompassing the body of the baby, a flap extending from one side of the tubular body portion and connected to the other side and passing between the legs of the baby, another annular member on said truncated conical frame structure of a larger circumference than said first mentioned annular member and positioned in alinement with the arms of a baby to be engaged by the hands of the baby.

2,657,736
CONVERTIBLE CHAIR
James J. Duffy and Jacob Corngold, Los Angeles, Calif.
Application August 29, 1950, Serial No. 182,062
7 Claims. (Cl. 155—40)

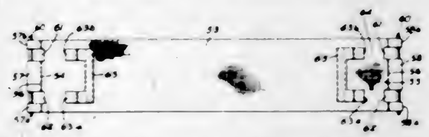
1. In a convertible chair, a pair of spaced vertical side members, an inwardly offset substantially horizontal arm rest carried by each side member at the upper end thereof, a seat structure carried by said arm rests and suspended therebetween, a pair of spaced vertical leg members positioned between said side members, a pivot coupling between each side member adjacent the lower end thereof and the adjacent leg member, said pivot couplings lying in a vertical plane passing through the seat structure substantially midway between the forward and rear ends of the





seat, cross bars connected to the leg members and extending transversely therebetween, and latches carried by the seat structure engaging one of said cross bars and releasably holding the leg members against rotation about said pivot couplings.

2,657,737
FLEXIBLE SEAT MOUNT
Stephen W. Kanaval, Cincinnati, Ohio
Application September 20, 1951, Serial No. 247,475
5 Claims. (Cl. 155—143)



3. For application to a folding chair which includes a pair of X-frames each comprising a pair of pivoted crossed arms with upper and lower ends, and transverse rails joining corresponding upper ends of the arms of one frame to those of the other frame, a flexible rectangular seat panel having opposite ends to be draped over the rails and passed at least half way around the rails, a set of spaced loops at each of said panel ends, a set of intermediate spaced loops secured to the panel at a distance from the panel ends, the end loops and the intermediate loops being staggered to interfit in axial alignment, and adapted when aligned, to receive displaceable rods maintaining the aligned relationship of the loops.

2,657,738
ANCHORING MEANS FOR WAVY WIRE SPRING ENDS
Raymond F. Kruszona, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 25, 1948, Serial No. 10,778
9 Claims. (Cl. 155—179)



3. In a spring structure, the combination of sinuously corrugated wire springs formed at their ends with straight attachment portions rectangularly related to the axes of said springs, and a metal frame for supporting said springs, said frame having one wall thereof provided with trunnions struck out from the surface thereof and projecting toward the interior of said frame and portions struck out from said wall and axially laterally offset with respect to said trunnions, said trunnions having the attachment portions of said wire springs extended therethrough and said struck out portions being positioned in engagement with curved wire portions of said springs to prevent lateral shifting of the springs when the attachment portions thereof are received in the trunnions of said supporting frame.

2,657,739
BASIC STRUCTURE FOR AUXILIARY SEATS OR THE LIKE
Thad B. McCarty, Oakland, Calif.
Application December 12, 1949, Serial No. 132,490
1 Claim. (Cl. 155—179)



A support comprising a rigid rectangular frame provided with four rounded corners, a unitary sheet of rubber stretched transversely around said member and having the ends thereof secured together, said rubber sheet being of sufficient width in relation to the corresponding dimension of the frame and being sufficiently taut so that said sheet envelops and conforms to the end edges and a substantial portion of each of the rounded corners of said frame while the side edges of said rubber sheet are located within the margins of the sides of the frame adjacent to said side edges, and a plurality of spaced elongate slots formed in the two major planar portions of said resilient member within the space defined by said frame member.

2,657,740
SPRING SEAT STRUCTURE
Howard G. Daniels, Dearborn, and Edwin C. Pickard, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application September 24, 1951, Serial No. 247,992
1 Claim. (Cl. 155—179)

In a vehicle seat cushion having a generally horizontal seating portion formed of a plurality of sinuously corrugated wire springs each having alternate oppositely facing loop portions and straight parallel portions interconnecting adjacent loop portions, a plurality of auxiliary tension wire members removably attached to the under side of the seating portions of said springs, each of said wire members having an elongated intermediate body portion positioned beneath one of said springs and spanning a plurality of the straight parallel portions of the spring, one end of said wire member being bent over one of the straight portions of said spring at the junction of said straight portion and the adjacent loop portion, said end of the wire member having a laterally extending part engaging the side of said last mentioned straight portion opposite the intermediate body portion of the wire member and extending the entire length of said straight portion, said extruding part of the wire member having a portion bent over said last mentioned straight portion and having a hook extending under the next adjacent straight portion of the spring and generally parallel to the intermediate body portion of the wire

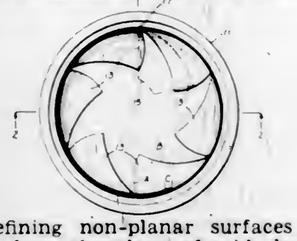


member, the opposite end of said wire member extending beneath one of the straight portions of the spring at the junction of said last mentioned straight portion and the adjacent loop portion and bent around said last mentioned straight portion and continuing into a laterally extending part having a downwardly facing hook at its terminal end engaging the other end of said last named straight portion of the spring at the junction of said last named straight portion and the adjacent loop portion, the laterally extending parts at opposite ends of the intermediate body portion of the wire member extending in opposite directions from said body portion with the hooks at the terminal ends of the wire member opening in opposite directions, the laterally extending parts at opposite ends of the intermediate body portion of the wire member being coextensive in length with the length of the straight intermediate portions of the spring to effectively prevent lateral movement of the end portions of said wire member relative to the spring and so that the straight intermediate body portion of said wire member extends diagonally across the width of said sinuous spring.

2,657,741
AIR CONTROL RING
Ralph C. Brierly, Narberth, Pa.
Application July 6, 1948, Serial No. 37,178
4 Claims. (Cl. 158—1.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A furnace air-control ring comprising an annular element adapted to be seated in the throat of a burner and a plurality of triangular deflecting plates having bases defining a line

common with the inner circumference of said element and extending inwardly therefrom, said



plates defining non-planar surfaces diverging shallowly from the plane of said element.

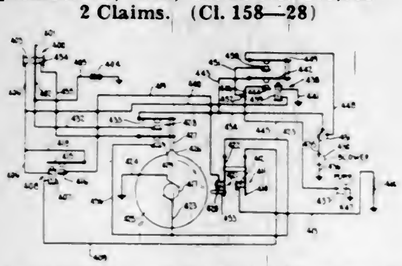
2,657,742

COMBUSTION HEATING CONTROL SYSTEM

Fred B. Aubert, Grosse Pointe, Mich.

Original application July 26, 1943, Serial No. 496,099, now Patent No. 2,484,602, dated October 11, 1949. Divided and this application September 10, 1949, Serial No. 115,063

2 Claims. (Cl. 158—28)



1. A heating apparatus comprising an electrically driven blower for supplying combustion air, a circuit for said blower, an electrically driven pump for supplying fuel for combustion, a circuit for said pump, an electrically driven timing motor, a circuit for said timing motor, a cam operated by said motor, hot wire ignition means for the supplied fuel, a circuit for said ignition means, a relay switch controlling the circuit of said motor and having its coil in series circuit with said ignition means, a pump controlling relay switch having an operating coil, a blower and pump switch operated by said cam upon starting of said motor and controlling the circuits of said pump and said blower, said cam acting upon predetermined running of said motor to open said blower and pump switch, a pair of normally closed switches controlling the circuit of said motor and the circuit of said ignition means and movable to open position by said cam upon predetermined running of said motor, a double-throw switch operable in one position to close the circuits of said relay coil and said operating coil and operable in the other position to close a circuit in shunt with said cam opened motor switch thereby to reinstate operation of said timing motor for predetermined closure of the blower circuit, and a switch opened by said cam to deenergize said timing motor upon opening of said blower switch by said cam.

2,657,743

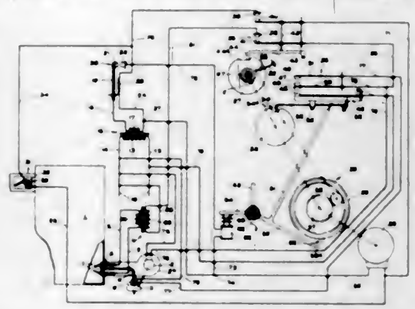
ELECTRICAL CONTROL SYSTEM FOR BURNER AND CONTROL DEVICE THEREFOR

Fred B. Aubert, Grosse Pointe, Mich.

Application March 7, 1950, Serial No. 148,232

24 Claims. (Cl. 158—28)

1. In a burner control system, a burner, electrically controlled means for supplying fuel to said burner, an electric ignition for said burner, a plurality of switches controlling energization of said fuel supply means and said ignition, movable switch operating means biased in one direction to an initial inoperative position, said switch operating means being operable upon movement in the other direction to operate said switches sequentially to energize first said fuel supply means and said ignition and subsequently to deenergize said ignition and upon further movement to deenergize said fuel supply means, electric timing means operable to move said switch operating means in said other direction, an electric circuit for said timing means, means including a switch controlling said timing means



circuit, releasable mechanical means having an initial inoperative position and operable upon actuation to effect the transmission of movement from said timing means to said switch operating means, electric means for actuating said mechanical means, an electric circuit for said electric means connected in parallel with said timing means circuit and controlled by said timing means controlling switch, and switch means including means responsive to the occurrence of flame in said burner and operable to deenergize said timing means subsequent to the deenergization of said ignition and prior to the deenergization of said fuel supply means by said switch operating means.

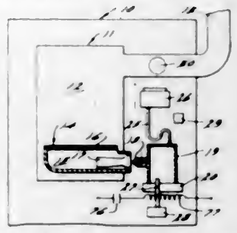
2,657,744

APPARATUS FOR VAPORIZING LIQUID FUEL

Alwin B. Newton, Dayton, Ohio, assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application September 29, 1948, Serial No. 51,729

2 Claims. (Cl. 158—53)



1. Apparatus for vaporizing liquid fuel preparatory to combustion in a burner of the type adapted to burn a gaseous fuel introduced thereinto under pressure comprising a closed container in which vapor pressure may build up, said container having a floor therein formed of magnetic material and having a nozzle forming an outlet through which the resulting vapor is discharged solely by the vapor pressure built up in said container, a liquid fuel metering device operable to deliver liquid fuel to said container

and into contact with said floor, a source of electric energy and an electric coil connected to said source and located in proximity to said floor and operable when energized to subject said floor to a magnetic field and to inductively heat said floor until it has attained a temperature corresponding to its Curie point.

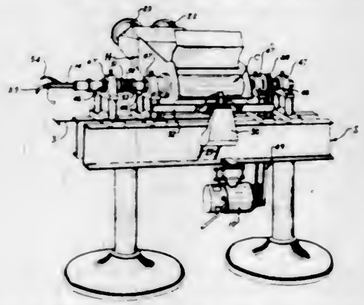
2,657,745

PROCESS OF AND APPARATUS FOR COMBUSTION OF LIQUID FUEL, VAPORIZATION OF LIQUIDS, AND MIXING OF GASEOUS FLUIDS

Edsell T. Bleecker, Denver, Colo.

Application February 24, 1948, Serial No. 10,524

25 Claims. (Cl. 158—77)



1. In apparatus for the combustion of a normally liquid fuel, a hollow cylinder having a micro-porous wall whose interstices tend to divide and sub-divide fluid passing therethrough; means for rotating said cylinder about its longitudinal axis; means including at least one nozzle disposed in the interior of said cylinder for directing said fuel against successive circumferential portions of substantially the entire inner surface of said micro-porous wall; conduit means extending within said cylinder for supplying said fuel to said fuel directing means; means for supplying a combustion supporting gas under pressure to the interior of said cylinder; and means for sealing the ends of said cylinder.

21. In a process for the vaporization of a liquid, the steps which comprise rotating a sealed hollow body having a substantially cylindrical micro-porous walled portion concentric to the axis of rotation of said body; forcefully directing said liquid against substantially the entire inner surface of said micro-porous walled portion; and supplying a normally gaseous fluid under pressure to the interior of said sealed body.

2,657,746

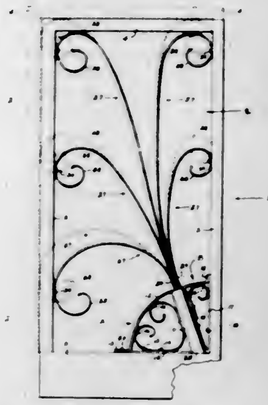
SCREEN DOOR GRILLE

Louis A. Macklanburg, Oklahoma City, Okla.

Application August 25, 1949, Serial No. 112,322

4 Claims. (Cl. 160—89)

1. An adjustable grille for screen door frames, including: a plurality of elongated strap-like elements having decorative scrolls on one end adapted to be individually anchored in various spaced positions within the opening of a screen door frame, the other ends of said elements being gathered together in flat face to face relationship to each other; a bracket adapted to be rigidly mounted in said frame opening; and a tubate socket carried by the bracket for embracing and anchoring the gathered ends of said elements in various longitudinal positions, said socket including two elongated channel members, one nested within the other to complementally form a tubate socket opening into which said gathered ends of the scroll elements extend, said members being relatively movable laterally to impinge said gath-



ered ends; and means for anchoring the channel members in various relative positions of lateral adjustment.

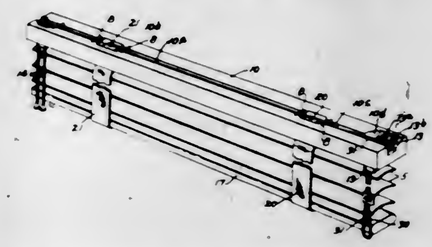
2,657,747

VENETIAN BLIND HEADRAIL

Brooks Walker, Piedmont, Calif.

Application June 17, 1950, Serial No. 168,716

4 Claims. (Cl. 160—168)



1. In a Venetian blind, a head rail of generally rectangular form in cross section and having a channel extending longitudinally of and opening through the upper face and opposite ends thereof, a tilt control rod disposed within and extending longitudinally of said channel intermediate its bottom wall and the top wall of said head rail, rectangular bearing members disposed within said channel in right angular relation thereto and in which said tilt control rod is rotatably journalled, longitudinally spaced pairs of downwardly diverging recesses in said head rail opening through the bottom walls of said channel and said head rail, a pair of ladder tapes, the side members of each tape extending through a pair of said recesses and having a looped upper portion directly engaged with said tilt control rod.

2,657,748

DEVICE FOR PRODUCING SIGNALS AT PREDETERMINED INTERVALS

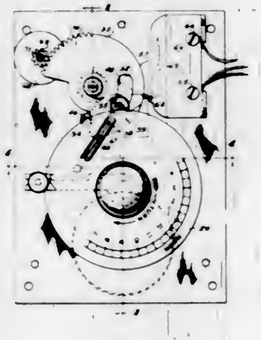
Max E. Snoddy, Dallas, Tex.

Application January 30, 1952, Serial No. 269,079

13 Claims. (Cl. 161—1)

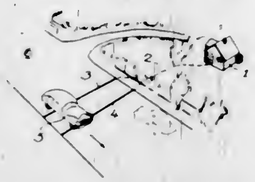
1. In a device of the type described, a dial; means for rotating said dial at a constant speed,

a trip arm adjustably secured to said dial for rotation therewith; a cam rotatably mounted for movement about an axis; a bridge mounted for movement about said axis, said cam and said bridge being connected for simultaneous movement in one direction; means biasing said cam and said bridge in the opposite direction; a switch having an operating lever normally held in inoperative position by said cam and said bridge, said trip arm engaging and rotating said cam a predetermined distance in said one direc-



tion as said dial is rotated, said cam having a recess, said bridge causing said lever to ride over said recess as said cam is rotated in said one direction, said recess allowing said lever to move to actuated position as said cam rotates back in said opposite direction, said lever when in said actuated position preventing movement of said bridge in said opposite direction, said recess having a camming surface to move said lever back to non-actuated position as said cam rotates in said opposite direction.

2,657,749
SPEED REGISTERING DEVICE
Ernest J. Dowden, Ames, Iowa
Application June 28, 1951, Serial No. 234,123
21 Claims. (Cl. 161—18)



1. In speed registering apparatus in combination, a pair of spaced apart initiating devices, a dial having an indicator pointer rotatable thereover, a rotatable shaft to which said pointer is fixed, a brake movable axially of the shaft into and out of braking engagement with the shaft, spring means for rotating said shaft upon release of the brake from the shaft, electrical means which when an object whose speed is to be registered passes one of said initiating devices will remove the brake from the shaft for rotation of the shaft by said spring means, and when said object consecutively passes the other of said initiating devices the brake will engage the shaft and stop it, and means for relieving the stress in the spring means after the registering operation for resetting purposes.

2,657,750
TICKET STORAGE AND ISSUING EQUIPMENT
Christopher Frederick Webb, London, England, assignor to General Register Corporation, Long Island City, N. Y., a corporation of New York
Application July 16, 1948, Serial No. 38,989
Claims priority, application Great Britain July 16, 1947
6 Claims. (Cl. 164—84.5)



1. A ticket storage and issuing machine comprising a ticket strip storage compartment, a tear-off edge exposing the leading edge of the next ticket for withdrawal, clamping means normally engaging the ticket strip and preventing withdrawal of the strip from the storage compartment, clamping means preventing retrograde motion of the strip, manually operated means for releasing the first mentioned clamping means from engagement with the strip to permit withdrawal of the strip, and indexing means engaging the strip and responsive to voids in the strip for rendering the releasing means inoperative, the arrangement being such that the first mentioned clamping means is disengaged from the strip upon manual operation of the releasing means and acts to engage the strip upon operation of the indexing means in response to voids in the strip.

2,657,751
OPEN HOLE PACKER OF THE SLEEVE TYPE
Thomas M. Johnston, La Canada, Calif., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex., a corporation of Delaware
Application February 20, 1950, Serial No. 145,219
2 Claims. (Cl. 166—10)



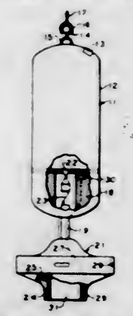
1. A sleeve packer comprising a deformable packer sleeve, a single integral unitary tubular mandrel slidably receivable through said packer sleeve to enable said packer sleeve to readily slide axially down the mandrel when being deformed into its operative position and slide axially up the mandrel when returning to its inoperative position, a lower tubular sub threadedly receiving the lower end of the mandrel, a collar threadedly receivable on the upper end of the lower sub and having an upwardly diverging frusto-conical surface engaging the lower end of the packer sleeve, an upper tubular sub telescopically receivable over the upper end of the mandrel, a collar threadedly received on the lower end of the upper sub and having a downwardly diverging frusto-conical surface engaging the upper end of the packer sleeve, the upper end of the upper sub terminating in an externally threaded pin, a top tubular sub having a threaded box threadedly engaging the pin, the internal diameter of the top sub being greater than the internal diameter of the upper sub so as to expose the upper end of the upper sub, keyways formed on the interior of the upper end of the upper sub, keys received by the keyways, an externally threaded retaining nut telescopically receivable over the upper end of the mandrel, threadedly engaging the interior of the upper sub and engaging the keys to retain the keys in place, said mandrel having keyways formed on the exterior thereof slidably receiving the keys, and a nut threadedly received on the upper end of the mandrel engageable with the upper end of the upper sub enabling an upward force to be applied to the underside of the packer sleeve through the mandrel to unseat the packer sleeve and also preventing disengagement of the keys and keyways.

2,657,752
MAGNETIC FISHING TOOL
Harold W. Ballew, Lubbock, Tex., and Julius R. Ballew, Hobbs, N. Mex.
Application March 31, 1949, Serial No. 84,616
6 Claims. (Cl. 166—19)



1. A magnetic fishing tool for recovering metallic objects from the bottom of a well or the like comprising a cylindrical hollow body, a shaft slidably and non-rotatably mounted in said body and extending from the upper end thereof, an electromagnet and a battery container secured to the lower end of said shaft within said body, a switch in said battery container having an actuating element extending through the wall thereof, electric connections between said magnet, said switch and a battery in said container, a basket rotatably mounted within said body adjacent the lower end thereof, resilient non-metallic fingers extending radially inwardly from the wall of said basket and substantially closing one end thereof, non-magnetic spring means engaging the upper surface of said resilient fingers and serving to bias said fingers toward closing position, inlet passages extending through said shaft and the side wall of said body to the lower edge thereof whereby fluid may be passed therethrough and ejected downwardly from said body to remove material from the bottom of said well in which said objects may be buried, outlet passages in said body whereby said fluid and material may pass upward within said body around said magnet and battery container and out through said outlet passages, a single tapered tooth extending axially from the lower edge of said body whereby upon rotation of said tool objects engaged by said tooth will be moved toward the axis thereof and a projection within said body in the path of movement of said actuating element whereby upon downward movement of said shaft, battery container and magnet relative to said body said actuating element will engage said projection to actuate said switch and energize said magnet thus lifting said objects through said fingers into said basket and whereby upon upward relative movement of said shaft, battery container and magnet, said actuating element will engage said projection to actuate said switch and deenergize said magnet thus releasing said objects to deposit the same in said basket to be retained therein by said fingers until reaching the surface.

2,657,753
TOOL FOR IMPINGING LIQUID AGAINST INNER WALLS OF CHAMBERS
Paul G. Carpenter, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 6, 1949, Serial No. 114,153
9 Claims. (Cl. 166—20)

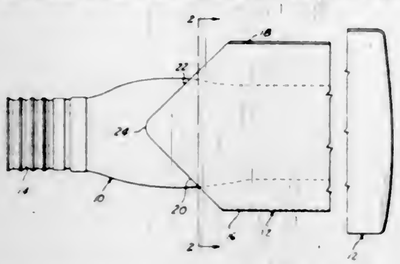


1. A tool for jetting liquid against inner walls of chambers, which comprises in combination a pressurizing chamber; a first conduit communicating with and extending longitudinally from said pressurizing chamber; a flow control valve in said first conduit; a motor head attached to said first conduit; second conduits in said motor head extending outwardly as arcs in common lateral directions from said first conduit to the periphery of said motor head and communicating therebetween; and a third conduit extending upwardly and outwardly from and communicating between the bottom exterior of the motor head and each second conduit at a point in each second conduit near the outer terminus thereof.

2,657,754
HOLLOW TYPE AERONAUTICAL PROPELLER
Charles B. Conwell, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application April 29, 1952, Serial No. 284,969
1 Claim. (Cl. 170—159)

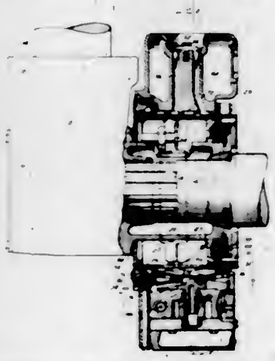
An aeronautical propeller blade construction comprising an elongated core constituting the

strength member of the blade and having a shank and two opposed flattened surfaces extending outwardly therefrom, a sheet metal airfoil-forming shell surrounding said core and having an open end through which the shank of the core projects, said core and said shell being bonded together along the flattened surfaces of said core with the leading and trailing edges of the shell overhanging the core in spaced relationship thereto, and a longitudinally extending projection on said shell extending along the shank of



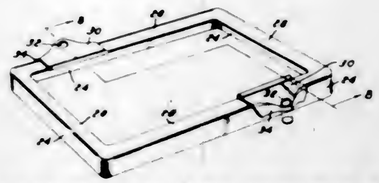
said core and bonded thereto along said flattened surfaces, said extending projection being defined by substantially straight edges of the shell extending from the leading and trailing edges thereof to the said core, said straight edges extending at substantially the same angle to the longitudinal center line of the core and said angle being at least 20° and no more than 60°, and said extending projection being further defined by arcuate edges interconnecting said straight edges at the opposed flattened surfaces of said core.

2,657,755
VARIABLE PITCH PROPELLER
Maurice E. Cushman, Verona, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application August 28, 1947, Serial No. 771,022
6 Claims. (Cl. 170—160.37)



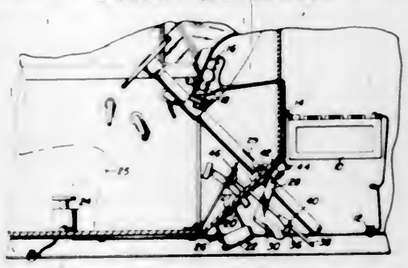
1. In a controllable pitch propeller comprising a rotatable hub having blades mounted therein for pitch change and a non-rotating housing journalled on the hub, said housing containing a hydraulic pitch change mechanism operably connected to said blades and including a motor, a pressure source, a feed conduit therefrom to said motor, a supply conduit to said pressure source, a discharge fluid conduit receiving fluid from said motor, a scavenging conduit connected in said mechanism to receive leakage and surplus fluid, and a fluid sump comprising two chambers normally superimposed and in restricted communication with one another, said supply and discharge conduits being connected to the lower most chamber and said scavenging conduit being connected to the uppermost chamber.

2,657,756
BATTERY HOLD-DOWN FRAME AND METHOD OF FORMING SAME
Axel V. Brogren, Detroit, Mich., assignor to Parsons Corporation, Detroit, Mich., a corporation of Michigan
Application August 24, 1950, Serial No. 181,210
4 Claims. (Cl. 180—68.5)



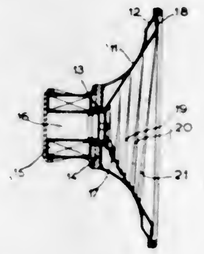
2. A battery hold down comprising a frame right angled in cross section forming a top wall and a side wall and contoured to the shape of the battery for seating over and around the upper edge thereof, a pair of opposing sides of said frame having ears, each of said ears being integral with said frame and extending horizontally outwardly from the top wall and having a hole in the outer portion thereof to receive hold down bolts, and each of said ears having a portion thereof adjacent the hole bent downwardly to form a brace integral with the ear and in surface contacting engagement with the side wall of the frame.

2,657,757
THROTTLE SAFETY ATTACHMENT
Earl L. Haynie, Berwyn, Ill.
Application November 24, 1950, Serial No. 197,449
1 Claim. (Cl. 180—82)



An attachment for a vehicle having an ignition circuit, a floor board, a seat, an accelerator pedal mounted on said floor board forwardly of said seat, and a throttle stem extending through said floor board secured at its upper end to and actuated by said pedal; said attachment comprising a crank pivoted to said floor board intermediate its ends adjacent to and forwardly of said pedal, one end of said crank embracing said throttle stem beneath said floor board and the other end of said crank terminating forwardly of said pedal above said floor board, an electro-magnet mounted on the underside of said floor board adjacent said one end of said crank in the plane of the path of movement of said one end, a normally open switch mounted in the seat of the vehicle and adapted to be closed by the positioning of weight on the seat, an electric circuit magnetizing said magnet and tied into the ignition circuit, pivotal movement of said crank about said other end away from said pedal drawing said one end thereof out of embracing engagement with the throttle stem and into engagement with said electro-magnet, the closing of said switch energizing said magnet and maintaining said one end of said crank out of engagement with said throttle stem.

2,657,758
LOUD-SPEAKER
Pierre Varnet, Romainville, France
Application March 24, 1950, Serial No. 151,724
Claims priority, application France March 31, 1949
1 Claim. (Cl. 181—32)



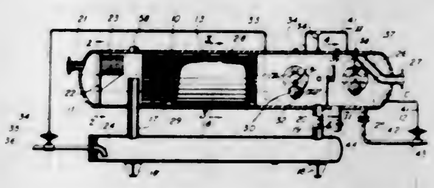
An acoustical diaphragm in the general form of a conical surface of revolution and formed of material of substantially uniform thickness, said conical diaphragm being provided with means driving it at the center thereof, said conical diaphragm having a plurality of arcuate undulations extending substantially circumferentially about at least a portion of the circumference thereof and varying progressively in width and depth circumferentially of the conical diaphragm from a maximum along one radius to a minimum along a radius spaced 180° from the first mentioned radius, said undulations lying in planes with the planes of the undulations being substantially perpendicular to the axis of the conical diaphragm for the undulations nearest the center of the conical diaphragm and being inclined more and more to said axis as the distance between the undulations and the center of the conical diaphragm increases.

2,657,759
ACOUSTIC BLOCK OR TILE
Charles C. Creamer, Minneapolis, Minn.
Application November 7, 1951, Serial No. 255,212
1 Claim. (Cl. 181—33)



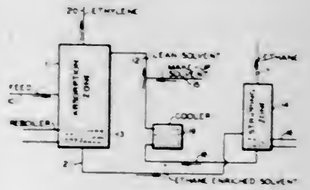
An acoustic block comprising an inner panel, an outer panel having openings therethrough, means spacing the outer panel from the inner panel providing a sound trap in the intermediate part of the block, and wherein a row of the said openings in the outer panel is positioned in the center of the block, in perpendicular relation to the face of the block and the openings at the sides of the center row slope inwardly from the outer face of the block toward the center of the block.

2,657,760
HORIZONTAL SEPARATOR
Clarence O. Glasgow, Tulsa, Okla., assignor to National Tank Company, Tulsa, Okla., a corporation of Nevada
Application January 9, 1950, Serial No. 137,547
15 Claims. (Cl. 183—2.7)



1. A fluid separator including, a horizontal tank having an influent inlet at one end and outlet means at its opposite end, a separating unit extending longitudinally in the tank between its ends, said unit comprising a plurality of closely-spaced substantially parallel plates extending transversely of the tank and elongated longitudinally of the tank to form a plurality of elongate wide shallow flow passages between said plates, devices connected with the tank at different elevations having discharge control means to maintain a water level and a water zone in the tank and an oil level and an oil zone above the water level, there being a gas zone above the oil level, the separating unit having a portion in the gas zone and portions immersed in the oil and water zones, whereby gas, oil and water are caused to flow separately through their respective zones and to flow longitudinally of the tank through the flow passages of the separating unit in separate superposed strata.

2,657,761
METHOD OF SEPARATING ETHANE FROM HYDROCARBON MIXTURES
Martin R. Cines, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 12, 1950, Serial No. 167,611
16 Claims. (Cl. 183—115)



16. A process for the separation of ethane from a gaseous mixture containing C_2 hydrocarbons which comprises contacting said mixture with a perfluoroamine selected from the group consisting of nonafluoro-sec-butyl-undecafluoro-2-pentyl heptafluoro-propyl amine, bis (pentafluoroethyl) heptafluoroisopropyl amine, pentafluoroethyl heptafluoro-n-propyl nonafluoro-sec-butyl amine and nonafluoro-n-butyl heptafluoro-n-propyl heptafluoro-isopropyl amine and perfluoroamines having the general formula

$$[CF_3(CF_2)_x]\ [CF_3(CF_2)_y]\ [CF_3(CF_2)_z]N$$

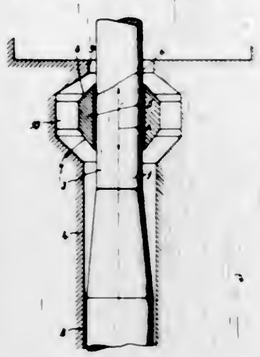
wherein x, y, and z are 0 to 4 as a selective solvent for ethane.

2,657,762

DEVICE FOR REDUCING EXCESS LUBRICANT ON RELATIVELY RECIPROCATING BODIES

Alfons Peters, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application October 26, 1949, Serial No. 123,633
Claims priority, application Netherlands November 3, 1948
4 Claims. (Cl. 184—24)



3. Apparatus for reducing excessive lubricant on reciprocating bodies, comprising two relatively reciprocating bodies having interfitting surfaces at a portion of their length and spaced apart by an intermediate space of small cross-section containing a lubricant, a scraping portion on one of said bodies being provided with channel connected lubricant storage spaces at the scraping ends thereof bounded by the surface of the other body, the scraping ends of the said scraping portion each being formed at an acute angle with the direction of motion of the other said body, the surface of one of the said bodies being conical over a portion of its length, the resulting conical slot formed between the said bodies at the said conical surface having its greatest transverse dimension at that end of the slot adjacent the space which is required to be kept free from excess lubricant.

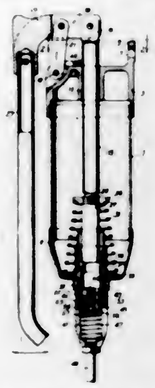
2,657,763

LUBRICATOR PUMP

Lutwin C. Rotter and Victor G. Klein, St. Louis, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri

Application April 28, 1950, Serial No. 158,652
1 Claim. (Cl. 184—28)

Lubricating apparatus for single-stroke pumping of lubricant through an injector supply line to a plurality of injectors, comprising a lubricant container consisting of a barrel having end heads, one of said heads having means at one side for attachment of the container in vertical position on a support with said one head up, said one head having an opening for filling the container with lubricant, a pump cylinder fixed in an opening in the other and lower head extending axially of the barrel and having a radial inlet port in the portion thereof within the barrel, a plunger reciprocable in the cylinder, being movable downward through a pressure stroke from a retracted position upward of the port, and crossing the port in making the pressure stroke, a nozzle fixed on the outer end of the pump cylinder outside the barrel and adapted for connection of a lubricant line for supplying lubricant under injector-operating pressure to injectors, the cylinder, at its outer end, presenting an outwardly directed valve seat, an outlet check valve slidable in said nozzle, a spring in said nozzle biasing said check valve toward said seat, said check valve having a vent port extending axially therethrough, an inwardly directed valve seat at the outer end of the vent port, a vent valve in said vent port biased toward said inwardly directed valve seat by a spring in said vent port, a push rod axially slidable in an opening in the upper head of the barrel and engaging the upper end of the plunger for driving the plunger through a pressure stroke, a spring in the barrel biasing the plunger in return direction, and means for operating the push rod



comprising an elongate handle pin-connected at one end to the upper end of the push rod and articulated by a link to the upper end head and having a retracted position extending down alongside the container, said handle, upon being swung upward and away from the container, driving the push rod downward to drive the plunger through a pressure stroke, said vent valve opening to vent the nozzle to the barrel via the radial inlet port when the plunger returns to retracted position after a pressure stroke, the relation of the spring in the nozzle and the spring in the vent port being such that the vent valve opens at a lower pressure than the check valve.

2,657,764

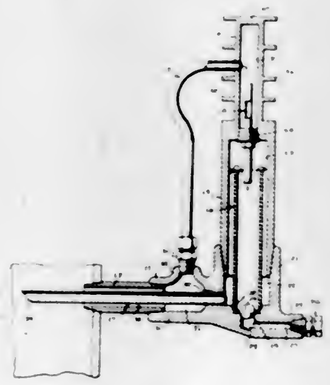
LUBRICANT DISTRIBUTOR AND ECONOMIZER

Campbell K. Sharp, Memphis, Tenn., assignor to Sharvania Oil & Grease Corp., Memphis, Tenn., a corporation of Tennessee

Application May 12, 1950, Serial No. 161,508
4 Claims. (Cl. 184—50)

1. A device for injecting lubricant in finely divided condition into a steam conduit comprising a base fitting of elongated hollow construction, means at one end of said base fitting for connecting the latter to a steam conduit, means at the other end of said base fitting for connecting the latter to a force feed lubricator, a combined housing part and steam condenser connected at one end to said base fitting intermediate the ends of and in communication with the interior of the latter, said combined housing part and condenser comprising an elongated tubular body upstanding substantially vertically from said base fitting when in operative position and having substantially coaxial bores of different diameter disposed in end-to-end relationship therein with the bore of smaller diameter in said condenser and extending from the end of the bore of larger diameter remote from said base fitting, the end

of said bore of smaller diameter remote from said bore of larger diameter being closed, a mixing cup of elongated tubular shape circumspatially disposed in said bore of larger diameter and secured at one end to said base fitting, said mixing cup communicating interiorly with the means for connecting said base fitting to a force feed lubricator, a check valve interposed between said mixing cup and said means for connecting the base fitting to a force feed lubricator to admit lubricant into said mixing cup while precluding passage of steam and condensate through the last-mentioned means, a plug secured in said bore of smaller diameter at the end thereof adjacent said bore of larger diameter, a tube circumspatially disposed in said bores and extending through said plug from a location intermediate the length of said bore of smaller diameter into the adjacent end of said mixing cup for conducting steam condensate from said condenser



into said mixing cup, said annular space between said mixing cup and said housing part constituting a steam chamber for boiling a mixture of condensate and lubricant in said mixing cup and causing the mixture to overflow the upper end of said cup into said space, an ejector tube secured at one end in said base fitting and extending circumspatially through the means for connecting said base fitting to a steam conduit, said injector tube communicating at said one end with said space between the mixing cup and the housing part for delivering lubricant and condensate mixture from said space into an associated steam conduit, and means providing a steam passage communicating at one end with the interior of said base fitting adjacent said means for connecting the base fitting to a steam conduit and communicating at its other end with said bore of smaller diameter intermediate the length of the latter for conducting steam into said condenser.

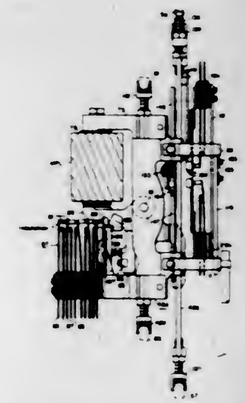
2,657,765

ELEVATOR CONTROL SYSTEM

Conwell Savage, New York, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

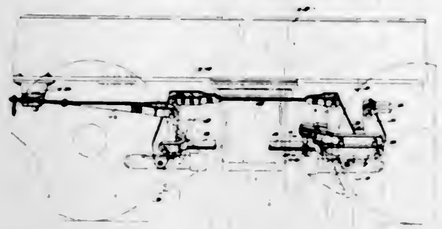
Application July 27, 1951, Serial No. 238,875
53 Claims. (Cl. 187—29)

41. In an elevator control system for an elevator car serving a plurality of floors of a structure, a supporting structure, a pair of first control devices, means mounting the control devices for movement in parallel linear paths in opposite directions in accordance with movement of the elevator car, said mounting means and control devices constituting a substantially mechanically-balanced system, a pair of second control devices, second means mounting each of the second control devices for movement in a path adjacent and parallel to the path of a separate one of the first control devices, said second mounting means and second control devices constituting a substantially mechanically-balanced system, lost-motion operating means for moving each of the second control devices in unison with the adjacent one of said first control devices, said lost-motion operating means permitting limited movement of the second control devices relative to the first control devices, stopping means operable from an ineffective to an effective condition for stopping the second control devices at predetermined points, first translating means responsive to motion of the first control devices relative to the second control devices for controlling operation of the elevator car, second translating means responsive to travel of the second control devices relative to the supporting structure for controlling the operation of the stopping means from ineffective to effective condition, said stopping means and second translating means comprising a plurality of



floor units for controlling the stopping of the elevator car at each of the floors for which one of the floor units is provided, each of the floor units comprising a securing device for detachably securing the floor unit to the supporting structure, a stopping member carried by the securing device, switch means carried by the securing device, said second translating means including means cooperating with the switch means of one of the floor units corresponding to a floor at which the elevator car is to stop for placing the stopping means in effective condition, and said stopping means further comprising means cooperating with the stopping member of the last-named floor unit when the stopping means is in effective condition for stopping movement of the second control devices at a point determined by the position of such stopping member on the supporting structure, means responsive to continued motion of the first control devices relative to the second control devices through said limited movement for controlling slowdown of the elevator car, and means effective following said last-named limited movement for correcting any deviation of the first control devices and the second control devices from predetermined positions relative to each other.

2,657,766
BRAKE RIGGING
William E. Wine, Parker, Va.
Application March 14, 1950, Serial No. 149,541
7 Claims. (Cl. 188—33)



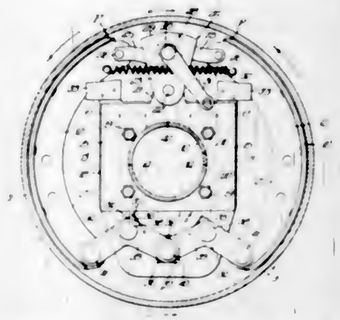
3. The combination with a brake rigging for railway cars having live and dead levers pivotally mounted on respectively opposite sides of the bolster of a truck of the railway car, and means for applying the brakes of the car, of an auxiliary lever mounted adjacent said live lever and connected to said means for applying the brakes, a compression rod extending through said bolster pivotally connected to said auxiliary lever and to said dead lever, and means having a looped portion surrounding said rod and pivotally connected to said auxiliary lever, and means for pivotally connecting said last named lever to said live lever, said looped portion being engageable with said rod for supporting the auxiliary lever when the brakes are released.

2,657,767
BRAKE ASSEMBLY
Bryan E. House, Ashtabula, Ohio, assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 10, 1950, Serial No. 155,010
19 Claims. (Cl. 188—78)



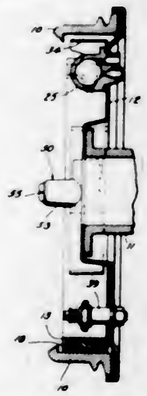
3. A brake comprising a supporting plate having two circumferentially spaced anchor portions, a split annular brake shoe consisting of a resilient rim and a lining, said shoe having at least a pair of circumferentially arranged slots for receiving respective anchor portions, the adjacent ends of said shoe being formed with a complementary tongue and recess, and an applying lever consisting of an elongated rigid member of U-shaped cross section, an opening formed in the bottom of said lever between its ends, said lever being interposed between said adjacent ends to straddle the recessed shoe end portion with said opening receiving said tongue whereby rotation of said lever spreads the ends of said shoe to force it into engagement with the drum, said shoe anchoring on one of said anchor portions for one direction of drum rotation and on the other for the other direction of drum rotation, the spacing between said anchor portions in combination with the leverage ratio of said applying lever being such that the brake is equally effective for both directions of drum rotation, and said shoe serving as brake release means.

2,657,768
FULL-FLOATING BRAKE
Frank W. Hunyady, Chicago, Ill.
Application December 31, 1947, Serial No. 794,931
22 Claims. (Cl. 188—78)



1. A brake mechanism comprising a pair of arcuate shoes shiftable in opposite directions for frictional engagement with a drum rotatable about an axis, means operable to initially engage adjacent ends of said shoes with said drum, a support, and opposed links pivotally connected to the respective opposite ends of said shoes, said links each having independent pivotal and slidable camming engagement with said support at points spaced laterally from one another in the general plane of movement of the shoes, and being pivotally engaged with one another whereby shifting of the shoes consequent upon said initial engagement and the frictional drag of the drum effects pivotal and camming motion of the links relative to the support, to thereby apply said opposite ends of the shoes to the drum.

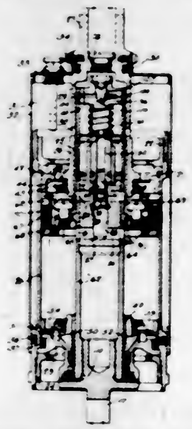
2,657,769
BRAKE
Karl K. Probst, Columbus, Ohio
Application September 12, 1951, Serial No. 246,302
7 Claims. (Cl. 188—79.5)



1. A servo brake comprising, in combination, a brake drum; a circumferentially movable brake friction member adapted to engage said drum to provide a braking action; means for moving said friction member to provide a braking action

with said drum; said means forming an anchor at one end of the friction member which limits the circumferential movement of the friction member in one direction; cam mechanism for reducing the clearance between said drum and friction member as the latter wears; and a lock means movable by said friction member for shifting the position of the friction member relative to the cam mechanism, said lock means forming an anchor limiting the circumferential movement of the friction member in the opposite of said direction.

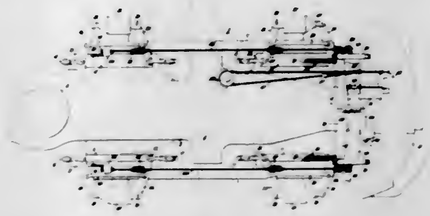
2,657,770
SHOCK ABSORBER
Edwin F. Rossman, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 27, 1951, Serial No. 243,816
10 Claims. (Cl. 188—88)



1. An hydraulic shock absorber consisting of a cylinder provided with a rod guide at each end; a reciprocative piston in the cylinder forming two work chambers therein, said piston having a central tubular portion extending from opposite sides thereof, each portion being slidably supported in a rod guide, said tubular portion having an opening in the wall on each side of the piston, said side openings providing communication between the work chambers through the tubular portion of the piston; a closure member at each end of the tubular portion of the piston; and spring loaded valve mechanism in the said tubular portion, for restricting the flow of fluid between the cylinder work chambers, said valve mechanism consisting of a spring loaded valve slidable in said tubular portion and having surfaces exposed to the pressure of the fluid in both cylinder work chambers and thus being movable in one direction by fluid pressure in either work chamber for establishing and varying the restriction to fluid flow between said chambers in accordance with the fluid pressure.

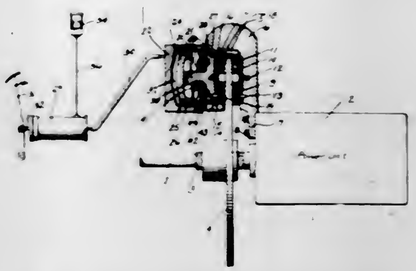
2,657,771
HAND BRAKE ARRANGEMENT
William R. Schettler, Lawrence Park, Pa., assignor to General Electric Company, a corporation of New York
Application August 11, 1951, Serial No. 241,422
17 Claims. (Cl. 188—107)

1. In a rail vehicle having a truck including a frame pivotally connected to a supported member and a plurality of pairs of wheels, clasp brake rigging respectively associated with the wheels on each side of said truck, a plurality of air cylinders mounted on said truck frame and respectively operatively connected to apply said brake rigging on each side of said truck, and means for providing hand application of said brake rigging on each side of said truck including a tranversely arranged brake beam slidingly



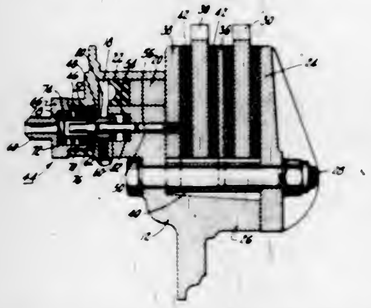
mounted on said supported member for movement longitudinally with respect thereto and having a sheave on each end thereof, a cable passing over each of said sheaves and having its ends respectively connected to said brake rigging on one side of said truck whereby movement of said brake beam applies said brake rigging, and manually actuated means for moving said brake beam.

2,657,772
DISK BRAKE
Richard K. Chamberlain, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application July 15, 1948, Serial No. 38,872
5 Claims. (Cl. 188—152)



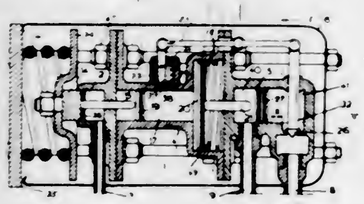
1. A disc brake comprising a driven shaft, a revolving disc slidably mounted on said shaft, a housing, a fluid pressure cylinder, a sealing plate disposed between said housing and said cylinder, friction members disposed in said housing on either side of said disc, one of said friction members being secured to a wall of said housing, a plunger head secured to and supporting the other of said friction members, a stem extending from said plunger head through said sealing plate into said cylinder, a stuffing box including a packing gland attached to said sealing plate to prevent fluid from contacting said friction members and said disc, and a piston disposed in said cylinder to actuate said plunger, said gland having a flared outer circumference to serve as a yieldable stop for said piston at a predetermined point of the piston travel to serve as a warning when the friction members need replacement.

2,657,773
AUTOMATIC BRAKE ADJUSTMENT
Paul A. Driscoll, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 16, 1950, Serial No. 149,942
14 Claims. (Cl. 188—152)



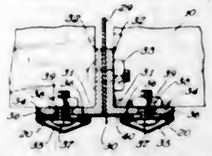
10. For use with a disk brake having a plurality of interleaved rotatable and nonrotatable friction disks, a pressure plate for effecting frictional engagement of said disks, and a hydraulic actuator having a port cooperably associated with said pressure plate; a hydraulic automatic brake adjusting device comprising a valve member controlling the port leading to said actuator, said valve member being movable to open said port by fluid pressure transmitted to said actuator, a valve carrying member operably secured to said pressure plate for displacement of said valve member to close said port upon retractile movement of said pressure plate to trap fluid pressure in said actuator, and a pressure relief valve member operably associated with an outlet communicating with said actuator to relieve excessive pressures in said actuator caused by thermal expansion of the fluid therein.

2,657,774
BRAKE
Paul Henri Perrot, Paris, France, assignor to Bendix Aviation Corporation, New York, N. Y.
Application August 6, 1947, Serial No. 766,518
In France April 16, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 16, 1966
6 Claims. (Cl. 188—195)



3. For a vehicle braking system having at least one fluid pressure operated brake, applying means adapted to be operatively connected to the brake, vehicle load responsive means arranged to develop a fluid pressure proportional to the vehicle load imparted thereto, and a pressure reducing device constituted by a closed hydraulic system operatively connected to both said load responsive means and said brake applying means to impart a brake applying pressure proportional to that of said load responsive means.

2,657,775
BEAD CONSTRUCTION
Thomas M. Dunham, Aurora, Ill., assignor to Aurora Equipment Company, Aurora, Ill., a corporation of Illinois
Application May 1, 1948, Serial No. 24,550
1 Claim. (Cl. 189—88)



In an ornamental beading structure for a cabinet construction including a pair of juxtaposed angle iron legs, a pair of adjoining longitudinal spaced beads secured along removed marginal edge portions of said legs, each of said beads including a resilient metal strip with turned under marginal flanges, a resilient securing plate confined within each bead by its inturned flanges, said securing plate having securing means clamping said securing plate and said bead to said legs, and a thin relatively narrow ornamental strip disposed longitudinally in and filling the space between said beads and having opposite marginal edges thereof under and engaged by adjacent turned under flanges of said beads and resiliently clamped thereby against said legs by said resilient securing plates, the other and removed underturned flanges each being held against the leg and transversely inwardly of the bead flange clamping the strip edge to an extent substantially equal to the thickness of said ornamental strip thereby providing a unitary ornamental effect of a strip with bead-like ridges along its removed margins.

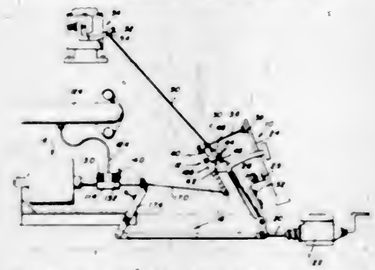
2,657,776
THROTTLE CONTROL DEVICE FOR INTERNAL-COMBUSTION ENGINES
Sydney Macdonald Parker, Leamington Spa, England, assignor to Automotive Products Company Limited, Leamington Spa, England
Application September 17, 1951, Serial No. 246,919
6 Claims. (Cl. 192—.062)



1. In a motor vehicle including an engine, throttle valve means for controlling the speed of the engine, a change-speed gearbox through which wheels of the vehicle are driven by the engine, means for engaging and disengaging the various gear ratios of the gearbox, and a friction clutch including driving and driven members between the engine and the gearbox, throttle control means including a driver operated throttle control member, means connecting said driver operated throttle control member to the throttle valve, a resilient connection in said connecting means enabling the throttle valve to move independently of the driver-operated throttle control member, a stop contacting member moving with the throttle valve, two movable stops co-

operating with said stop-contacting member, one of said stops having an operative position in which it limits the opening of the throttle valve and the other of said stops having an operative position in which it limits the closing of said throttle valve, stop actuating means for moving the first-mentioned stop to its operative position, separate stop actuating means for moving the second-mentioned stop to its operative position, said first stop actuating means being actuated by the gear engaging and disengaging means to disengage any gear ratio, said second stop actuating means being actuated by movement of the gear engaging and disengaging means to engage a gear ratio, and being subsequently returned from its operative position upon the attainment of synchronism between the driving and driven members of the friction clutch.

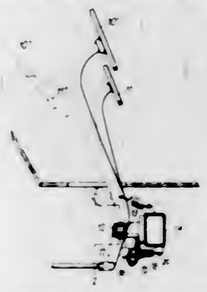
2,657,777
VACUUM BRAKE APPARATUS
Paul M. Smith, Cambridge, Ohio
Application June 6, 1951, Serial No. 230,145
7 Claims. (Cl. 192—3)



1. A vacuum brake apparatus comprising an elongated accelerator pedal pivotally supported at an intermediate point thereon by the floorboard of an automotive vehicle, a vacuum cylinder supported by a bracket adjacent the intake manifold of the vehicle, a piston and piston rod slidable in said cylinder, valve means slidably carried on said piston rod, a conduit interconnecting said valve means with the intake manifold, said piston rod being hollow and provided with a pair of concentric passages, said pair of passages affording communication between opposing sides of said piston and a pair of longitudinally spaced openings through the surface of said piston rod, said valve means being movable over said spaced openings to selectively provide communication between the intake manifold and opposing sides of said piston, the side opposite to the one in communication with the intake manifold being in open communication with the atmosphere, linkage means connecting said pedal with said valve means for effecting operation of said valve means in response to pivoting movement of said pedal, and means interconnecting said piston rod and the conventional master brake cylinder for actuating the same upon movement of said piston.

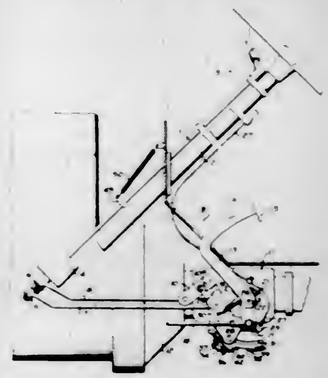
2,657,778
OPERATING MECHANISM FOR MOTOR VEHICLES
Friedrich K. H. Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application October 3, 1950, Serial No. 188,185
Claims priority, application Germany
October 8, 1949
3 Claims. (Cl. 192—3)

1. Operating mechanism for motor vehicles comprising a double-armed brake lever, a double-armed fuel supply lever, an actuating foot pedal on a first arm of each lever, spring means for returning the levers to unactuated position, bearing means supporting the levers for pivoting movement about substantially similarly directed axes, a double-armed intermediate lever, bearing means supporting the intermediate lever for pivoting movement about an axis transverse to the pivoting axes of the other levers, and a uni-



tary bearing bracket incorporating both said bearing means, each arm of the intermediate lever being positioned in the path of swinging movement of the second arm of one of the other levers, whereby each said arm of the intermediate lever contacts the cooperating second arm with sufficient play to permit full swinging movement to one of the other levers when not contacted by the other thereof.

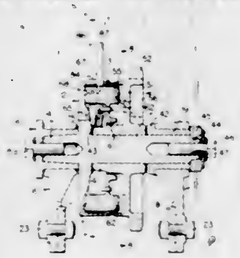
2,657,779
AUTOMATIC GEAR SHIFTING MECHANISM
Selmer L. Wiig, Los Angeles, Calif., assignor to B. J. Audette
Application March 10, 1952, Serial No. 275,709
13 Claims. (Cl. 192—3.5)



1. The combination with a change speed gear transmission having an oscillatable shaft for moving gears between a primary and a secondary position through a neutral intermediate position, and a clutch lever of an automatic shifting mechanism, involving: a shifting lever for moving said gear shifting shaft between said primary and secondary positions; a pair of connecting members joined to said shifting lever and simultaneously movable in opposition to each other to effect movement of said lever between said primary and secondary positions; an operating arm movable with said clutch lever; a toggle device carried by said operating arm and tiltable to engage either of said connecting members; and cam means carried by each of said connecting members to de-

flect said toggle device so as to engage said connecting means alternately with alternate movement of said operating arm and clutch lever, thereby to move said shifting lever back and forth between said primary and secondary position.

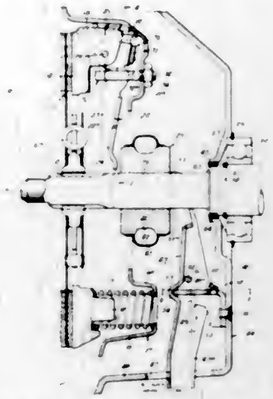
2,657,780
SELF-INTERRUPTING CLUTCH
John H. Starr, Mayville, Wis., assignor to John Deere Van Brunt Company, Horicon, Wis., a corporation of Wisconsin
Application June 9, 1949, Serial No. 98,012
14 Claims. (Cl. 192—62)



1. A self-interrupting clutch of the plow lift type, comprising a pair of spaced apart coaxially arranged driving and driven members, serrations on the adjacent faces of said members, an engaging member mounted for limited axial movement between said members and having companion serrations on its opposite faces, spring means connected between said engaging member and said driven clutch member for shifting said engaging member into engagement with the serrations on said driving member while the serrations on the engaging member and the driven member remain in engagement, and means releasably engageable with said driven and engaging members for holding the latter member against movement relative to the driven member under the bias exerted by said spring means, said spring means being connected to act between said engaging member and said driven clutch member at an angle whereby said spring means has a component of force available to shift said engaging member toward said driven member and out of engagement with said driving member when said driven and engaging members are held against relative rotation.

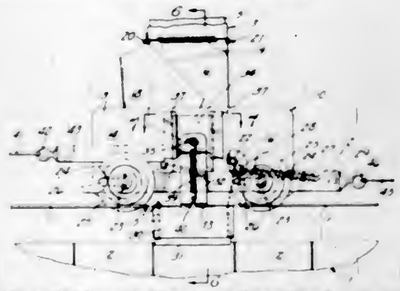
2,657,781
FRICTION CLUTCH AND LEVER ASSEMBLY
Reinhold C. Zeidler, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application September 29, 1949, Serial No. 118,555
7 Claims. (Cl. 192—99)

1. In a friction clutch, a driven friction disc; a flywheel and a pressure plate between which said friction disc is adapted to be engaged; a cover carried by said flywheel and enclosing said pressure plate; spring means acting on said cover and pressure plate to pack said pressure plate in a direction for clutch engagement; a release lever pivotally carried by said pressure plate; said release lever comprising a sheet metal stamping of U-shaped cross-section defining a body portion and longitudinal side flanges, each flange having oppositely extending arcuate regions at its two margins, the arcuate region at one margin of each flange having a smaller radius than the arcuate region at the other margin; and a fulcrum plate on said cover straddled by said lever and having spaced shoulders engaged by said arcuate regions of said lever flanges, the small radius regions having rolling contact with an adjacent shoulder of said fulcrum plate, and the large arcuate



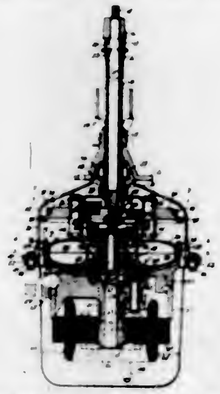
region arranged to contact the second shoulder of said fulcrum plate thereby to maintain said first arcuate regions engaged with said second shoulder during movement of said lever.

2,657,782
DISTRIBUTOR HEAD FOR GRAIN TUBES
Richard A. Gerber, Minneapolis, Minn., assignor to J. J. Gerber Sheet Metal Works, Inc., Minneapolis, Minn., a corporation of Minnesota
Application June 30, 1950, Serial No. 171,439
4 Claims. (Cl. 193—3)



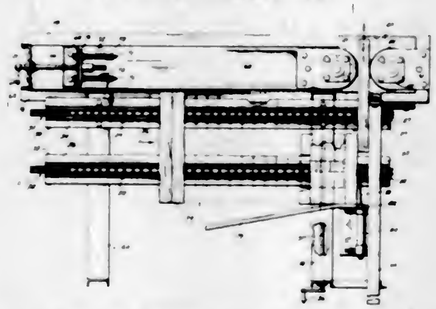
1. In a device of the class described, an angular frame including a pair of spaced parallel side frame members, a vertically-disposed open-ended tubular coupler disposed between said side frame members, a pair of axles extending through said frame and said coupler in spaced relation longitudinally of said side frame members, supporting wheels on opposite ends of said axles laterally outwardly of said frame and coupler, said frame members being provided with horizontally-extended slots for permitting limited sliding movements of said axles and said coupler with respect thereto, means yielding biasing said coupler toward one limit of its movement with respect to said frame, a skirt secured to the lower end of said coupler for telescopic extending and retracting movements, a pair of cooperating cam members one thereof being mounted on said frame for common movement therewith in a horizontal plane and the other thereof being slidably mounted on said coupler for movements in a vertical plane, means for coupling said last-mentioned cam member to said skirt, and yielding means for biasing said skirt toward its extended position, movement of said frame with respect to said coupler in a direction against the bias of said first-mentioned yielding means causing retracting movements to be imparted to said skirt against the bias of said last-mentioned yielding means.

2,657,783
DRIVE MECHANISM FOR WASHING MACHINES AND THE LIKE
Thomas T. Woodson, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application November 18, 1950, Serial No. 196,487
14 Claims. (Cl. 192—3.5)



1. In a clothes washing and extracting machine, a mechanism for driving a rotatable clothes basket comprising, a motor, a first shaft driven by said motor, a second shaft connected to and supporting said basket, a coupling for said first and second shafts comprising a driving disk connected to said first shaft and a driven disk connected to and supporting said second shaft and clothes basket, a housing below and partly enclosing said coupling, brake means on said housing on which said driven disk rests and which form the sole support for said second shaft and basket, and fluid pressure generating means for supplying liquid under pressure directly to said coupling disks to effect engagement of said disks and simultaneously to exert a force on said driven disk to lift it off said brake and support it and said shaft and basket on said liquid during a spin operation.

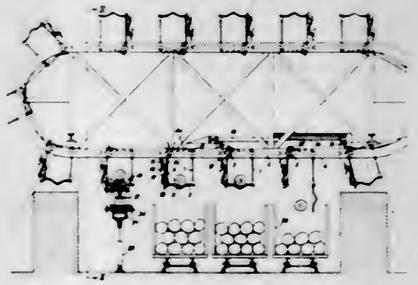
2,657,784
AUTOMATIC FEEDER
Lyman Paul Stoker, San Francisco, Calif.
Application June 2, 1949, Serial No. 96,708
8 Claims. (Cl. 198—21)



1. A feed mechanism for the continuous and contiguous feed of a series of subjects compris-

ing in combination a trigger for engaging with each successive subject to be fed, a plunger for delivering a blow to the subject to feed the same to abut the immediately preceding subject in response to the engagement of said trigger, a pair of oppositely disposed rolls for accepting such feed, and automatic timer control means for positively delaying the action of said plunger until the subject immediately ahead has cleared.

2,657,785
LOG CLASSIFYING MACHINE
Karl Lennart Birger Johansson, Jonkoping, Sweden, assignor of part interest to Gunnar Gideon Edstrom, Jonkoping, Sweden
Application October 3, 1951, Serial No. 249,433
Claims priority, application Sweden December 12, 1950
6 Claims. (Cl. 198—38)



1. A log classifying device, comprising a guide rail carrier extending along a closed path, a number of carriages supported by and movable along said guide rail carrier for the transport of individual logs to a plurality of delivery stations, said carriages having log carrying members extending in the travelling direction of the carriages and adapted to be released by a falling latch, a conveyor for feeding individual logs in their length direction transversely to said path and over the carrying members of a carriage while supported by a lower portion of said guide rail carrier and being placed in front of said conveyor, a number of fixed release shoulders provided along said path one for each delivery station and displaced laterally from each other, a laterally adjustable release lever on each carriage connected with said falling latch and adapted to cooperate with a selected one of the release shoulders, and means for conveying said carriages along said guide rail carrier.

2,657,786
PORTABLE CONVEYER
Henry Thomas Loberg, West Allis, Wis.
Application November 15, 1948, Serial No. 60,111
3 Claims. (Cl. 198—122)



1. A conveyer structure, comprising a base, a vertically swingable boom pivotally mounted on

said base, elevating means for said boom including an angularly adjustable A-frame carried by said base and having a boom-supporting apex portion shiftable along said boom, an endless conveyer element movable along said boom, and driving means for said conveyer element, said A-frame including a pair of upwardly converging frame members pivotally connected at their upper ends adjacent to said apex portion, the lower end of one of said frame members having a pivotal connection with said base, and the lower end of the other frame member being shiftable along said base toward and away from said last-named pivotal connection for respectively effecting raising and lowering of said apex portion.

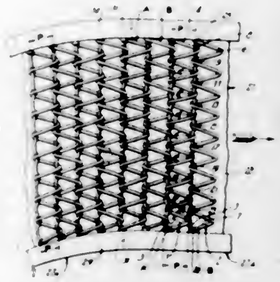
2,657,787
FLIGHT CONVEYER
Armistead R. Long, Fayetteville, and John B. Long, Fayette, W. Va.; Pauline McCauley Long and Chas. E. Mahan, executors of said Armistead R. Long, deceased
Application February 2, 1948, Serial No. 5,698
8 Claims. (Cl. 198—176)



4. A conveyor flight for use with endless conveyor chains, comprising an elongated body of generally angular cross-section providing a first flange substantially coextensive with the body, and a pair of second flanges in angular relation to said first flange, said second flanges being in substantially the same plane and in spaced relation midway of the body whereby the flight may be disposed in crosswise straddling relation to the length of the conveyor chain, and an inverted U-shaped projection at the forward portion of said body including a bight portion integral with said first flange and depending arms integral with said second flanges at their inner end portions, said arms provided with aligned apertures for receiving a chain pin, and the flight provided with recesses at the junctures between said arms and second flanges and adjacent said apertures for the reception of heads of the chain pin.

2,657,788
WOVEN WIRE CONVEYER BELT
Donald G. Merrill, West Hartford, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Application January 29, 1948, Serial No. 5,145
7 Claims. (Cl. 198—193)

6. A woven wire conveyor belt comprising a series of transversely disposed spirally formed wires and transversely disposed hinge wires, each hinge wire extending through and hingedly connecting the turns of two adjacent spirally formed wires, one of which is fixed at its ends to the ends of the hinge wire while the other spirally formed wire is free at its ends from the same hinge wire and is in free bearing contact therewith at its turns, the turns of the two adjacent spirally formed wires and the portions of the hinge wire extending therethrough being cooperatively shaped and associated to cause a pull on all turns of the relatively trailing one of the two hingedly connected wires when the belt is being pulled in a forward direction along a substantially horizontal supporting guideway and to permit limited relative axial shifting movements between these two hingedly connected wires when they pass from a straightaway portion to a laterally curved portion of the guideway and vice versa while all turns of the trailing wire are under pull from the leading one, the portions of the hinge wire extending through the turns of the free one of said two hingedly



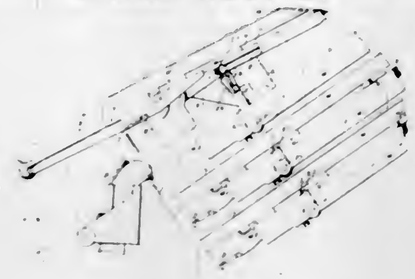
connected spirally formed wires being shaped to co-act with said turns on each relative axial shifting movement between the two hingedly connected wires while one is under pull from the other to effect a further relative shifting movement between them effective to decrease the distance in the direction of pull between their ends at one lateral edge of the belt and to increase the distance in the same direction between their ends at the opposite lateral edge of the belt, all without interrupting the pull on any of the turns of the trailing wire from its hingedly connected leading wire.

2,657,789
SHAKER CONVEYER
Francis Paul Somogyi, London, England
Application May 11, 1949, Serial No. 92,645
5 Claims. (Cl. 198—220)



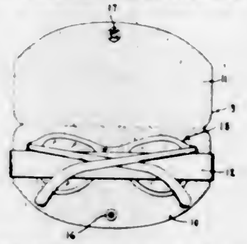
1. A shaker conveyor comprising a longitudinally reciprocable frame, means for longitudinally reciprocating said frame forwardly and rearwardly, a conveying trough mounted on said frame and longitudinally movable with respect thereto, said frame having longitudinal rails thereon with their forward ends relatively sharply inclined and their rearward ends relatively gradually inclined, said trough having rollers for riding on said rails, and parallel spring links each extending from a lower anchorage on said frame to an upper anchorage on said trough, said anchorages being so positioned and arranged that as the rollers move from the front to the rear of said tracks the upper anchorage moves from a point in front of to a point to the rear of its cooperating lower anchorage and when the rollers are at the low point of the tracks the upper anchorage is in front of the lower anchorage.

2,657,790
TYPOGRAPHICAL MACHINE
Charles W. Seaward, Hamden, Conn., and John Latorraca, Jamaica Plain, Mass., assignors to Mergenthaler Linotype Company, a corporation of New York
Application April 15, 1950, Serial No. 156,136
11 Claims. (Cl. 199—45)



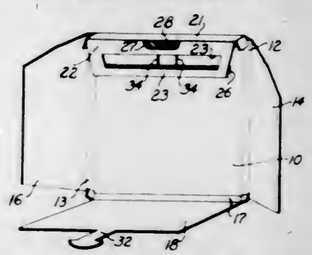
1. In a typographical machine equipped with a matrix magazine, a base frame upon which it is removably supported, a magazine lifting and supporting plate pivoted to the base frame, means for swinging said plate upwardly to locate the magazine in position for removal or replacement, and means mounted on said plate for supporting the magazine in place thereon, the combination therewith of a locking device carried by the magazine lifting and supporting plate and independent of the magazine supporting means to prevent the magazine from being disengaged therefrom, and means actuated by the plate swinging means for releasing the locking device in the upwardly swung position of the plate.

2,657,791
SPECTACLE CASE
Benjamin Grosvenor, Pomfret, Conn., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 7, 1950, Serial No. 199,590
1 Claim. (Cl. 206—5)



A two-piece stitchless spectacle case comprising a one-piece body of flexible non-metallic sheet stock folded along a transverse line to form a pair of panels each of which has a length and a width greater than that of the spectacles to be positioned therebetween, one of said panels having a pair of spaced slits angularly disposed to said transverse line of fold, and a separate strap member of similar flexible sheet stock overlying the inner surface of said panel having the spaced slits, said strap member having its opposed longitudinal edges free and its end portions extended around the opposed side edges of said slitted panel so as to overlie the outer surface of said panel adjacent said opposed side edges and terminating in enlarged ends which are extended through the respective slits to lie on the inner surface of said panel beneath the intermediate portion of said strap member, said strap member, when in secured relation with the panel, having an effective length sufficient to permit spectacles to be inserted and snugly fit between said intermediate portion and the panel and with the temples thereof overlying the strap member, said strap member further having a width less than the width of the panel but sufficiently wide so that when said spectacles are slipped between the intermediate portion of the strap member and the inner surface of the panel the major portion of the lens areas of the spectacles will be covered thereby, said slits being only slightly longer than the width of said strap member and less than that of the enlarged ends whereby the enlarged ends will maintain the strap member in readily detachable but positive assembly with the said panel and prevent the spectacles from slipping sidewise out of the case, and connection means carried by said two panels adjacent their sides opposed to the transverse line of fold and by which the two panels may be detachably connected together to complete the securing of the spectacles therein.

2,657,792
CARTON CONSTRUCTION
Robert C. Ward, Cincinnati, Ohio
Application September 26, 1951, Serial No. 248,388
1 Claim. (Cl. 206—7)

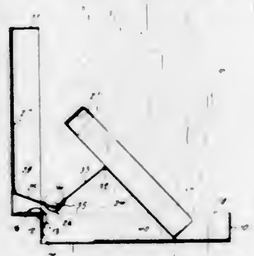


A carton for carrying clothes, said carton comprising a rectangular back panel, side panels hinged to the side edges of said back panel, a front panel hinged to the lower edge of the back panel, said side panels and front panel when folded to overlie the back panel forming with the back panel a hollow container, a handle panel hinged to the upper edge of the back panel and extending from the back panel to the front panel, a hanger panel hinged to the free edge of the handle panel, there being aligned transverse openings in the back and hanger panels adjacent the handle panel, the portion of the hanger panel below the handle openings having an elongated transverse opening therein by which a hanger bar is formed below the handle opening and on which a garment may be hung in the carton, a locking flap attached to the upper edge of the front panel and extending through the handle openings, there being a locking slot in the back panel, and a tongue hinged to the locking flap and engageable in said slot to hold the carton closed.

2,657,793
COVER OPERATED DISPLAY BOX
Melvyn Goldshine, Flushing, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application January 10, 1951, Serial No. 205,350
4 Claims. (Cl. 206—45.13)

1. A display box comprising a body section, a cover section hinged thereto, a curved spring

secured at its terminals above and below the hinge axis to the cover section and the body section, respectively, to maintain the cover section in open position, a tray for holding and displaying an article contained in the box and being of lesser length than the body section, and means for elevating the tray to a rearwardly inclined position with its lower end in the body section when the box is open, such means comprising a strip of flat material having a lower section secured to the tray, an intermediate section of lesser height than the box and disposed adjacent



the box wall carrying the hinge, an upper section secured to the cover section, and fold lines at the upper and lower ends of the intermediate section forming hinge elements between the intermediate section and the upper and lower sections, respectively, and a fold line between the ends of the lower section, said fold lines being parallel with the hinge axis, and a curved spring secured at its terminals to the strip above and below the fold line between the intermediate and lower sections of said strip for maintaining the tray in said rearwardly inclined position when the box is open.

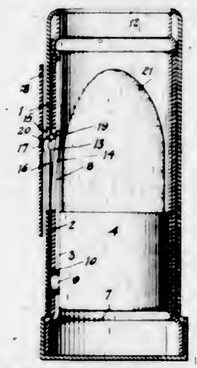
2,657,794

COSMETIC CONTAINER

Louis Edward Isele, Oakville, Conn., assignor to The Eyelet Specialty Company, Waterbury, Conn.

Application March 12, 1952, Serial No. 276,152

2 Claims. (Cl. 206—56)



1. In a cosmetic container, an inner sleeve provided with a longitudinally-extending slot, a cosmetic cup movable within said sleeve and having a pin guided in said slot, an intermediate tube fitted around the inner sleeve and provided with a spiral slot in which the pin on the cup is located, an outer sleeve fitted on the outside of the intermediate tube, the intermediate tube being provided with a spring lug positioned to register with the slot in the inner sleeve when the cosmetic cup is in a retracted position, the outer sleeve being provided with a spring tongue formed with a hooked and stepped end having a part of said end extending over the spring lug, the tongue having a part engaged by a closure cap when said cap is fitted over the outer sleeve to thereby force a part of the tongue inwardly and cause a part of its end to force the lug inwardly to a position within the slot in the inner sleeve and thereby prevent rotative movement of said sleeve within the intermediate tube, the stepped end of the tongue having a shoulder for contact with a portion of the intermediate tube adjacent to the lug therein to limit inward flexing movement of the lug.

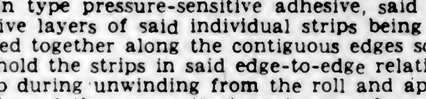
2,657,795

ROLL OF PRESSURE-SENSITIVE ADHESIVE STRIPING TAPE

Carl J. Calabrese, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application August 15, 1949, Serial No. 110,272

1 Claim. (Cl. 206—59)



A roll of normally tacky and pressure-sensitive masking tape consisting of a plural odd number of individual strips of said tape in edge-to-edge relationship wound in convolute roll form on a single core, each of said strips being comprised of a non-woven flexible backing coated on the inner face with a layer of rubber-resin type pressure-sensitive adhesive, said adhesive layers of said individual strips being cohered together along the contiguous edges so as to hold the strips in said edge-to-edge relationship during unwinding from the roll and application of the composite tape to a surface, but being readily separable after application of the tape on stripping away a central strip of said tape.

2,657,796

METHOD OF FIBERIZING MAGNESIUM

Thomas E. Leontis, Midland, and John F. Pashak, Bay City, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application September 16, 1949, Serial No. 116,214

4 Claims. (Cl. 207—10)

1. The method of producing a bundle of easily separable fibers of magnesium and alloys thereof which comprises mixing together in comminuted form the metal and an organic blue solid selected from the group consisting of indanthrene blue, and indigo blue, and die expressing the mixture at a temperature between about 500° and 800° F.

2,657,797

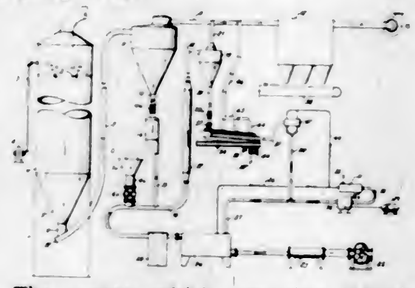
PROCESS OF COOLING SPRAY DRIED DETERGENTS

Lowell A. Ledgett, Ridgewood, and Charles W. Deane, Summit, N. J., and John J. Mahoney, New York, N. Y., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

Application April 23, 1948, Serial No. 22,808

5 Claims. (Cl. 209—11)

1. The process which comprises introducing hot spray-dried organic detergent particles through an air lock into a cooling system and feeding them to the bottom of a mass of such particles, passing cooling air under positive delivery upwardly through said mass of particles in said system at a velocity less than 25 feet per second, removing cooled detergent particles from the upper portion of said mass, conveying said removed particles to an air separating device, and separating said particles from said air in said separating device.



4. The process which comprises introducing spray dried detergent particles at a temperature too high for packaging through an air lock into a cooling system, partially cooling said spray dried detergent particles by blowing cooling air under positive delivery upwardly through a mass of said particles in said system at a velocity less than 25 feet per second, continuously adding hot particles at the bottom of said mass, continuously removing partially cooled particles from the top of said mass, and classifying the removed particles into product, tailings and fines while blowing additional cooling air transversely into and upwardly through a stream of falling particles to complete cooling them to the desired temperature.

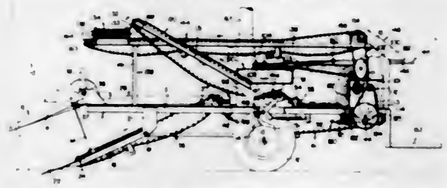
2,657,798

POTATO DIGGER HAVING MEANS FOR SEPARATING VINES AND STONES FROM POTATOES

Austin E. Young, Onondaga, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill., a corporation of Illinois

Application February 11, 1949, Serial No. 75,809

7 Claims. (Cl. 209—72)



3. In a potato digger including a conveyor movable generally horizontally, the improvement comprising a vine-removing suction device adapted to be disposed above said conveyor for drawing vines, trash and the like upwardly from the potatoes on the conveyor, one or more deflectors depending from the suction device and having their lower edges closely adjacent the upper side of the conveyor, said deflectors serving as means for guiding vines, trash and the like on said conveyor toward said suction device, and yieldable resilient means adapted to be disposed underneath said conveyor and acting upwardly against the underside of the potato-carrying portion thereof for holding the latter thereof in operative relation with respect to said deflector or deflectors, said resilient means yielding to permit said portion of the conveyor to move downwardly in the event a large stone or other obstruction is carried toward the deflector or deflectors by said conveyor.

6. A device for separating stones from potatoes comprising a conveyor having a transverse series of spaced bars traveling in a substantially horizontal path and forming unobstructed transverse spaces between the bars, a rotary shaft mounted above the conveyor on a horizontal axis and arranged to form an acute angle with the direction of travel of the conveyor, flexible members mounted on the shaft and extending proximate to the conveyor, means for rotating the shaft to rotate the members in a direction opposite to the movement of the conveyor so as to engage all of the articles on the conveyor and to move the potatoes, having less density than stones, transversely of the conveyor, and means for separately receiving the potatoes moved transversely of the conveyor.

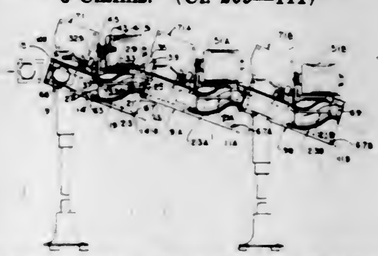
2,657,799

CAN SORTING MACHINE

Frederick M. Johnson and Leander J. Bulliet, Rockford, Ill., assignors to Odin Corporation, Chicago, Ill., a corporation of Illinois

Application June 9, 1949, Serial No. 98,112

6 Claims. (Cl. 209—111)



1. A sorting machine for cans or the like having visual indicia thereon, and comprising a plurality of conveyor sections each including a downwardly inclined conveyor trackway along which the cans or the like to be sorted are rolled in sequence and a divergent conveyor trackway inclined upwardly from the conveyor trackway for communication with the next succeeding conveyor section, a light sensing device located adjacent each conveyor section and each sensing device being disposed with respect to its conveyor section in a position laterally different from that of the sensing device for an adjacent conveyor section and predetermined in accordance with the applied indicia on the cans or the like being passed, and a gate device for each conveyor section operable in response to its sensing device to be positioned to afford communication between the inclined conveyor trackway and the divergent conveyor trackway to permit articles with predetermined indicia thereon to pass through the communicant conveyor trackway and the divergent conveyor trackway.

2,657,800

FROTHING AGENTS FOR THE FLOTATION OF ORES

Reginald Harold Hall, Sutton, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company

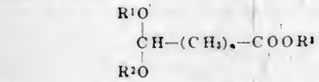
No Drawing. Application June 25, 1951, Serial No. 233,495

Claims priority, application Great Britain July 5, 1950

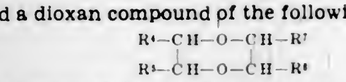
9 Claims. (Cl. 209—166)

9. In a method of effecting the concentration of minerals by flotation, the steps of adding to

the mineral pulp, in the capacity of a frothing agent, a material selected from the group consisting of alkoxy ester compounds of the formula:

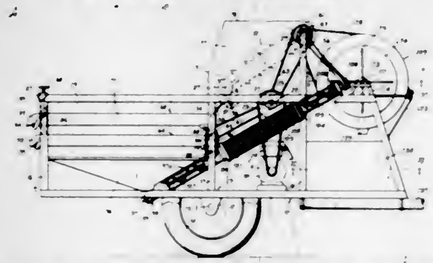


and a dioxan compound of the following formula:



and mixtures of these compounds, wherein R^1, R^2 and R^3 are alkyl radicals selected from the group consisting of methyl and ethyl, n is an integer from 2 to 8, and R^4, R^5, R^6 and R^7 are each isopropoxy radicals, wherein said material is admixed with another compound having froth forming properties, and subjecting the resultant mixture to a flotation operation.

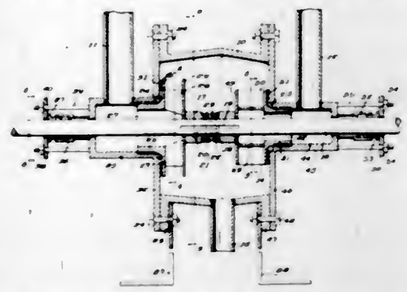
2,657,801
WATERMELON CRUSHER AND SEED SEPARATOR
Leslie J. Quilling, Ringwood, Okla.
Application June 1, 1948, Serial No. 30,417
2 Claims. (Cl. 209—300)



1. In a watermelon crusher and seed separator, a frame, an inclined separator supported by said frame and including a cylindrical housing comprising a lower perforated section having an opening therein for the reception of watermelon seeds and stock, said perforations therein to allow juice to pass therethrough, a center section of enlarged diameter arranged in registry with the upper end of said lower section and secured thereto, said center section embodying a plurality of spaced parallel longitudinally extending bars, an annular screen wall supported by said bars, said screen wall having openings of a size to permit immature seed to pass therethrough and to retain the mature seeds therein, a reducing cone section positioned on the upper end of said center section, an upper perforated section connected to said reducing cone and provided with an opening for the egress therethrough of seeds, and a screw member rotatably mounted in said separator and extending longitudinally therethrough and adapted to be connected to a power source, said screw member having a rubber facing thereon to move the material upwardly through said housing.

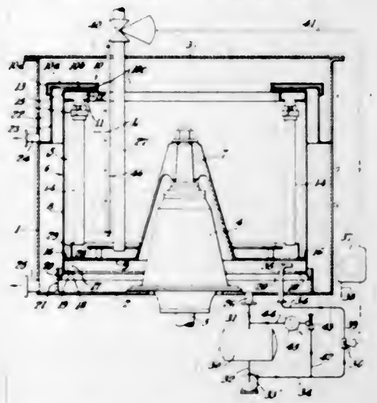
2,657,802
MATERIAL SEPARATOR
Robert R. Reed, Tulsa, Okla.
Application December 30, 1949, Serial No. 136,123
4 Claims. (Cl. 210—51)

1. In a material separator, the combination which comprises a housing having an open chamber therein, a shaft mounted in the housing and extended through said chamber, said housing having suction and discharge connections, spaced parallel flanges mounted on said shaft and positioned against the end of the chamber in which the suction connection of the housing is positioned, radially disposed blades positioned between said spaced parallel flanges and integral therewith, said flanges and blades providing a suction impeller and the area through said impeller being in communication with said suction connection, spaced parallel flanges mounted on said shaft and positioned in the end of the chamber opposite to that in which the suction im-



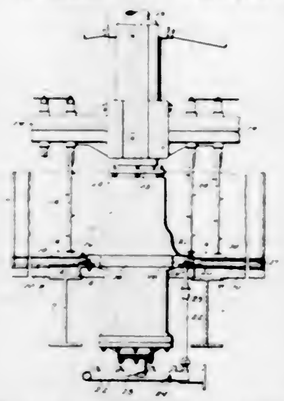
peller is positioned, and radially disposed blades positioned between said spaced parallel flanges at the end of the chamber opposite to that in which the suction impeller is positioned and integral with said flanges, said blades and flanges in the end of the chamber opposite to that in which the suction impeller is positioned providing a discharge impeller and the area through said discharge impeller being in communication with the discharge connection of the housing, the diameter of the flanges of said discharge impeller being less than that of the flanges of the suction impeller.

2,657,803
CENTRIFUGAL FILTRATION
August H. Schutte, Hastings on Hudson, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application September 1, 1949, Serial No. 113,605
15 Claims. (Cl. 210—67)



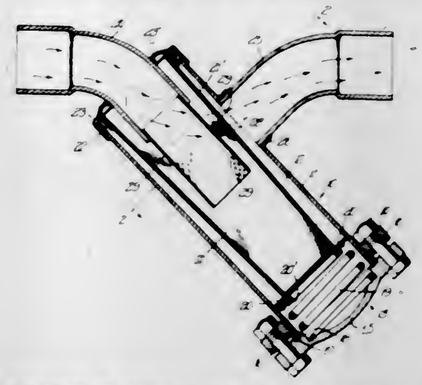
1. A centrifugal filter apparatus for separating a charge mixture including a liquid and a heavier solid, comprising a centrifuge rotor having an imperforate circumferential wall, and a wall at one end thereof to prevent discharge at said end, the rotor being open at its opposite end and there having an annular lip extending from said circumferential wall inwardly toward the axis of the rotor, a plurality of filter conduits within the rotor extending along and spaced around the rotor axis and located intermediate the radial width of said lip and each having a longitudinal filter wall, means for progressively delivering the charge to the region of said filter conduits, channel means for discharge of filtrate from said conduits to the exterior of the rotor, an annular channel borne by the rotor at one end thereof with its center on the rotor axis, said annular channel being open at its side toward the rotor axis, means defining a liquid admission and discharge port connecting said annular channel with a region of the interior of the rotor located at said imperforate wall and spaced radially outward from said filter conduits, said port being independent of said filtrate discharge channel means and the annular channel extending nearer to the rotor axis than said port and said region, a conduit to supply to said annular channel through said open side thereof a liquid independent of the charge from outside of the rotor during rotation of the rotor, for flow through said passage to build up an annular stratum for displacement of separated solid material radially inward for discharge past the inner edge of said lip, means to limit approach of said stratum toward said filter walls to prevent escape of the independent liquid therethrough, and means to effect limited discharge of the independent liquid from said stratum, through said connected port and channel during rotation of the rotor, the said port and the annular channel being correlated with said internal region of the rotor to retain a predetermined minimum radial thickness of said stratum during rotation of the rotor.

2,657,804
BOTTOM-FLUSHING APPARATUS FOR LAUTER TUBS
Joshua Epstein, Oreland, Pa., assignor to Acme Coppersmithing & Machine Company, Oreland, Pa., a corporation of Pennsylvania
Application January 9, 1951, Serial No. 205,138
6 Claims. (Cl. 210—152)



1. In combination a lauter tub having a standard for a center bearing, a horizontal peripheral flange on the standard, a false bottom supported centrally on the flange, said flange being undercut to provide a circular groove and a depending peripheral lip and having spaced recesses extending inwardly from the groove, a bottom fastened to the lower side of the flange and spaced below the said lip, a riser in the bottom opposite each recess and a common water supply pipe connected to the risers.

2,657,805
Y-TYPE STRAINER
Joseph A. Palcer, Chicago, Ill., assignor to Henry Valve Company, Incorporated, Chicago, Ill., a corporation of Illinois
Application May 21, 1949, Serial No. 94,555
1 Claim. (Cl. 210—164)

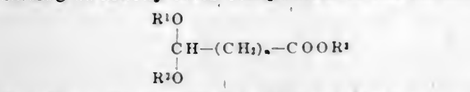


A strainer structure comprising a tubular body having an inlet opening at one axial end thereof and a lateral discharge opening in the side wall thereof, an angled, tubular inlet fitting distinct from but secured to said body to discharge through said inlet opening, said fitting having an inlet leg disposed at an angle to the axis of said body and being positioned to discharge to the interior of said body in a direction axially of the same, an angled, tubular outlet fitting distinct from but secured to said body in communication with said discharge opening, a tubular foraminated screen member disposed in said body in coaxial relation to the discharge portion of said inlet fitting, said screen member extending in an axial direction past said lateral discharge opening of the body, said member being traversed by fluid flowing through said inlet fitting, said discharge fitting having a discharge leg positioned externally of said body to discharge in alignment with the inlet leg of said inlet fitting, said respective fittings being separate and distinct from one another and being separately applied to said body, a laterally flanged closure cap applied across the axial end of said body opposite said inlet opening, a clamping member externally secured to said body inwardly of said cap, clamping elements coacting with said cap and clamping member to maintain said cap in axially engaged, sealing relation to said last named end of said body, said screen member having an end plate in fixed relation to the end thereof adjacent said cap, and a spring acting between said cap and end plate to urge said screen member in the direction toward the inlet opening to said body.

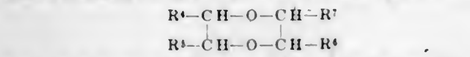
2,657,806
FILTER
James Mark Launder, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio
Application December 26, 1947, Serial No. 794,069
4 Claims. (Cl. 210—183)

1. In a liquid filter, a closed casing formed of separable sections, a filtering medium confined within said casing, clamping means associated with said sections for holding the same in closed position by the direct abuting engagement of their marginal mating end surfaces, said means including a winged bolt mounted for rotary

the mineral pulp, in the capacity of a frothing agent, a material selected from the group consisting of alkoxy ester compounds of the formula:

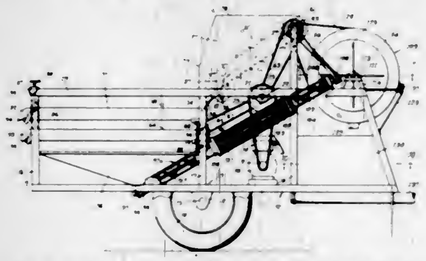


and a dioxan compound of the following formula:



and mixtures of these compounds, wherein R^1, R^2 and R^3 are alkyl radicals selected from the group consisting of methyl and ethyl, n is an integer from 2 to 8, and R^4, R^5, R^6 and R^7 are each isopropoxy radicals, wherein said material is admixed with another compound having froth forming properties, and subjecting the resultant mixture to a flotation operation.

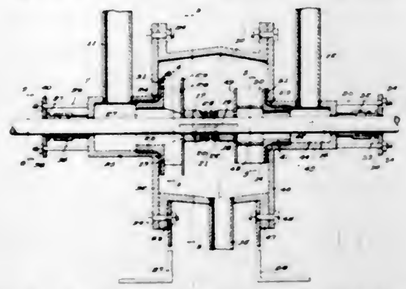
2,657,801
WATERMELON CRUSHER AND SEED SEPARATOR
Leslie J. Quilling, Ringwood, Okla.
Application June 1, 1948, Serial No. 30,417
2 Claims. (Cl. 209—300)



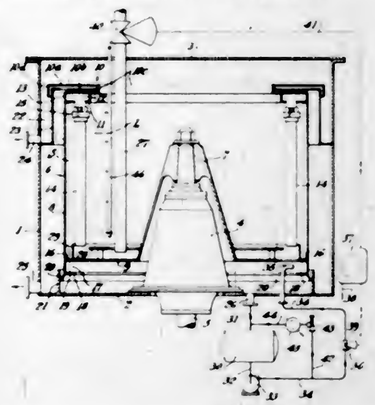
1. In a watermelon crusher and seed separator, a frame, an inclined separator supported by said frame and including a cylindrical housing comprising a lower perforated section having an opening therein for the reception of watermelon seeds and stock, said perforations therein to allow juice to pass therethrough, a center section of enlarged diameter arranged in registry with the upper end of said lower section and secured thereto, said center section embodying a plurality of spaced parallel longitudinally extending bars, an annular screen wall supported by said bars, said screen wall having openings of a size to permit immature seed to pass therethrough and to retain the mature seeds therein, a reducing cone section positioned on the upper end of said center section, an upper perforated section connected to said reducing cone and provided with an opening for the egress therethrough of seeds, and a screw member rotatably mounted in said separator and extending longitudinally therethrough and adapted to be connected to a power source, said screw member having a rubber facing thereon to move the material upwardly through said housing.

2,657,802
MATERIAL SEPARATOR
Robert R. Reed, Tulsa, Okla.
Application December 30, 1949, Serial No. 136,123
4 Claims. (Cl. 210—51)

1. In a material separator, the combination which comprises a housing having an open chamber therein, a shaft mounted in the housing and extended through said chamber, said housing having suction and discharge connections, spaced parallel flanges mounted on said shaft and positioned against the end of the chamber in which the suction connection of the housing is positioned, radially disposed blades positioned between said spaced parallel flanges and integral therewith, said flanges and blades providing a suction impeller and the area through said impeller being in communication with said suction connection, spaced parallel flanges mounted on said shaft and positioned in the end of the chamber opposite to that in which the suction impeller is positioned, and radially disposed blades positioned between said spaced parallel flanges at the end of the chamber opposite to that in which the suction impeller is positioned and integral with said flanges, said blades and flanges in the end of the chamber opposite to that in which the suction impeller is positioned providing a discharge impeller and the area through said discharge impeller being in communication with the discharge connection of the housing, the diameter of the flanges of said discharge impeller being less than that of the flanges of the suction impeller.

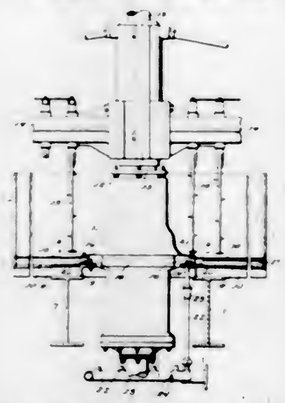


2,657,803
CENTRIFUGAL FILTRATION
August H. Schutte, Hastings on Hudson, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application September 1, 1949, Serial No. 113,605
15 Claims. (Cl. 210—67)



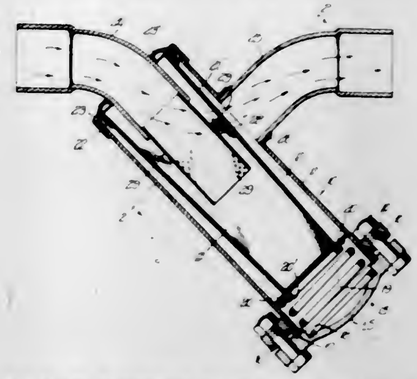
1. A centrifugal filter apparatus for separating a charge mixture including a liquid and a heavier solid, comprising a centrifuge rotor having an imperforate circumferential wall, and a wall at one end thereof to prevent discharge at said end, the rotor being open at its opposite end and there having an annular lip extending from said circumferential wall inwardly toward the axis of the rotor, a plurality of filter conduits within the rotor extending along and spaced around the rotor axis and located intermediate the radial width of said lip and each having a longitudinal filter wall, means for progressively delivering the charge to the region of said filter conduits, channel means for discharge of filtrate from said conduits to the exterior of the rotor, an annular channel borne by the rotor at one end thereof with its center on the rotor axis, said annular channel being open at its side toward the rotor axis, means defining a liquid admission and discharge port connecting said annular channel with a region of the interior of the rotor located at said imperforate wall and spaced radially outward from said filter conduits, said port being independent of said filtrate discharge channel means and the annular channel extending nearer to the rotor axis than said port and said region, a conduit to supply to said annular channel through said open side thereof a liquid independent of the charge from outside of the rotor during rotation of the rotor, for flow through said passage to build up an annular stratum for displacement of separated solid material radially inward for discharge past the inner edge of said lip, means to limit approach of said stratum toward said filter walls to prevent escape of the independent liquid therethrough, and means to effect limited discharge of the independent liquid from said stratum, through said connected port and channel during rotation of the rotor, the said port and the annular channel being correlated with said internal region of the rotor to retain a predetermined minimum radial thickness of said stratum during rotation of the rotor.

2,657,804
BOTTOM-FLUSHING APPARATUS FOR LAUTER TUBS
Joshua Epstein, Oreland, Pa., assignor to Acme Coppersmithing & Machine Company, Oreland, Pa., a corporation of Pennsylvania
Application January 9, 1951, Serial No. 205,138
6 Claims. (Cl. 210—152)



1. In combination a lauter tub having a standard for a center bearing, a horizontal peripheral flange on the standard, a false bottom supported centrally on the flange, said flange being undercut to provide a circular groove and a depending peripheral lip and having spaced recesses extending inwardly from the groove, a bottom fastened to the lower side of the flange and spaced below the said lip, a riser in the bottom opposite each recess and a common water supply pipe connected to the risers.

2,657,805
Y-TYPE STRAINER
Joseph A. Palcer, Chicago, Ill., assignor to Henry Valve Company, Incorporated, Chicago, Ill., a corporation of Illinois
Application May 21, 1949, Serial No. 94,555
1 Claim. (Cl. 210—164)

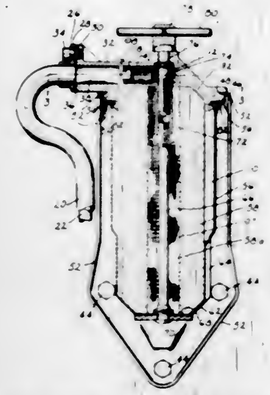


A strainer structure comprising a tubular body having an inlet opening at one axial end thereof and a lateral discharge opening in the side wall thereof, an angled, tubular inlet fitting distinct from but secured to said body to discharge through said inlet opening, said fitting having an inlet leg disposed at an angle to the axis of said body and being positioned to discharge to the interior of said body in a direction axially of the same, an angled, tubular outlet fitting distinct from but secured to said body in communication with said discharge opening, a tubular foraminated screen member disposed in said body in coaxial relation to the discharge portion of said inlet fitting, said screen member extending in an axial direction past said lateral discharge opening of the body, said member being traversed by fluid flowing through said inlet fitting, said discharge fitting having a discharge leg positioned externally of said body to discharge in alignment with the inlet leg of said inlet fitting, said respective fittings being separate and distinct from one another and being separately applied to said body, a laterally flanged closure cap applied across the axial end of said body opposite said inlet opening, a clamping member externally secured to said body inwardly of said cap, clamping elements coacting with said cap and clamping member to maintain said cap in axially engaged, sealing relation to said last named end of said body, said screen member having an end plate in fixed relation to the end thereof adjacent said cap, and a spring acting between said cap and end plate to urge said screen member in the direction toward the inlet opening to said body.

2,657,806
FILTER
James Mark Launder, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio
Application December 26, 1947, Serial No. 794,069
4 Claims. (Cl. 210—183)

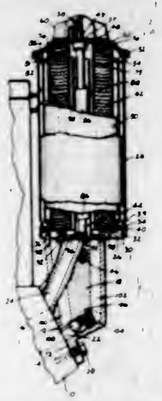
1. In a liquid filter, a closed casing formed of separable sections, a filtering medium confined within said casing, clamping means associated with said sections for holding the same in closed position by the direct abuting engagement of their marginal mating end surfaces, said means including a winged bolt mounted for rotary

movement with respect to one section and held against longitudinal movement with respect thereto, a channel positioned within the casing to bridge the juncture of the abutting mating end surface a member of ring-like configuration carried by said channel to be positioned adjacent to the juncture of the abutting end surfaces, and the ring-like member loosely fitting said



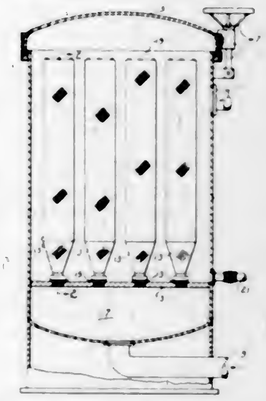
channel but projecting therefrom for being distorted by engaging the inner face of one of the end surfaces of said separable sections and by the fluid pressure in said casing to form a leak-proof seal for the directly abutting engaging surfaces of said separable sections for mutual contact therewith, the effectiveness of said contact increasing as the fluid pressure in the casing increases.

2,657,807
OIL FILTER
James Mark Launder, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio
Application December 26, 1947, Serial No. 794,071
11 Claims. (Cl. 210—183)



1. In an oil filter, the combination of an enclosing casing having a removable cover, a secondary annular container having a closed end, an annular filtering element of compressible filtering material open at both ends and arranged in spaced relation in said secondary container forming therein an outer liquid space between said filtering element and outer wall of the secondary container and an inner liquid space within the filtering element and inner wall of the secondary container, means for urging said cover to closed position on said casing, said cover and a closed end of said secondary container having portions which press on the opposite ends of said compressible filtering element and act when the cover is held in closed position on the casing to compress and form therewith tight joints at the ends of the filtering element causing the closed end of the secondary container to contact under pressure the lower inner surface of the enclosing casing, conduits terminating at the interior of the enclosing casing, for admitting liquid to one of said liquid spaces and discharging it from the other liquid space formed on the base of said casing, and passageways for the flow of oil from the end of said conduits to said liquid spaces defined by the container walls rendered effective by the engagement of the secondary container with said casing and being so arranged that drain-back of oil from said liquid spaces does not occur.

2,657,808
WATER SEPARATOR
Paul A. Mankin, Fort Wayne, Ind., assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana
Application October 12, 1950, Serial No. 189,694
15 Claims. (Cl. 210—184)

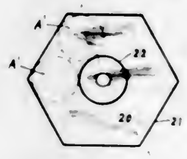


1. In a fuel and water separator comprising a tank, a deck plate mounted in the tank to separate into first and second compartments, a supply conduit communicating with the first compartment, a water separating unit mounted on the deck plate within the second compartment and having an inlet communicating with the first compartment, said unit comprising means including a first water coalescing member disposed to intercept the liquid flowing through said inlet, means including a second coalescing member disposed to intercept effluent from said first element and means including a separator for intercepting the effluent from said second member, said second compartment serving to collect the effluent from said separator, and separate fuel and water outlet conduits communicating with said second compartment.

2,657,809
CONTAINER STAND
George E. Balch, Pittsburgh, Pa.
Application June 13, 1949, Serial No. 98,704
4 Claims. (Cl. 211—77)

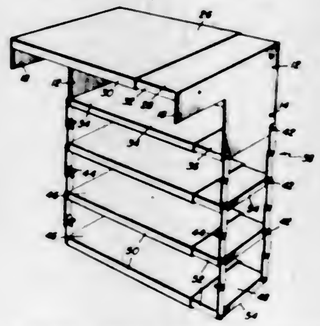
1. A multiple tray holder for containers comprising a central supporting post, a plurality of polygon-shaped trays set one above the other on

the post, a narrow upturned peripheral flange on each polygonal edge of the tray for retaining containers on the tray, each tray also having a round collar element fixed thereon concentric with the post and on which the superimposed tray rests, the height of the collar being greater than the height of the container which the tray will accommodate, plus the height of said flange, the diameter of the collar element being such that the radial distance from any corner of the polygon to the outside of said element is just slightly



larger than the diameter of the container to be placed on the tray, and a plurality of containers on the tray corresponding in number to the number of corners on the tray, the diameter of the containers being such that they will be received on the tray at the corners but not intermediate the corners of the polygon-shaped trays, the height of the containers being slightly less than the height of the collar element but sufficiently high that it must be lifted vertically and then removed horizontally to clear the flange.

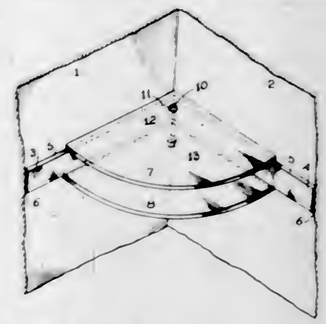
2,657,810
COLLAPSIBLE AND EXPANSIBLE SHELVING
Philip Garrick, Miami, Fla.
Application May 8, 1950, Serial No. 160,711
5 Claims. (Cl. 211—90)



1. A collapsible clothes rack comprising opposed wall attachment plates, a horizontally extending telescoping shelf terminally secured to said plates and extending therebetween, a plurality of vertically spaced, horizontally extending telescoping shelves beneath said first-named shelf, the uppermost of said vertically spaced shelves being terminally secured to said wall attachment plates, and pairs of articulated links terminally pivoted to adjacent shelves of said vertically spaced shelves.

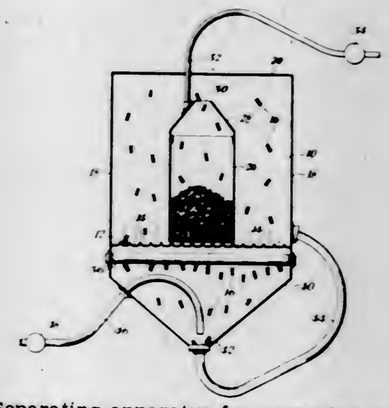
2,657,811
DOUBLE-SHELF UNIT
William Isler, Cleveland, Ohio
Application June 25, 1948, Serial No. 35,073
9 Claims. (Cl. 211—90)

1. In combination with angularly-related chair rails extending to the corner of a room, a double shelf unit disposed in the corner of said room, the shelves of said unit having straight edges adjacent the walls of the room, and means extend-



ing through said unit for clamping said unit to said chair rails.

2,657,812
SEPARATING APPARATUS FOR SPRINGS AND THE LIKE
Charles E. K. Fox, New Stanton, Pa., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application January 5, 1952, Serial No. 265,152
7 Claims. (Cl. 214—8.5)

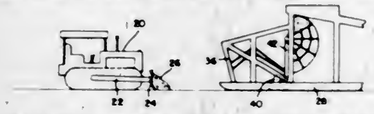


1. Separating apparatus for connected articles comprising a receptacle having a wall provided with a plurality of apertures and being otherwise closed, a container for the connected articles supported within said receptacle and having an open end adapted to be disposed adjacent a closed wall thereof and remote from said apertured wall, and means for admitting fluid under pressure to said container for ejecting the articles through said open end into separating contact with the closed walls of said receptacle for exit individually through said apertures.

2,657,813
MECHANISM FOR HANDLING AND ELEVATING DISCRETE MATERIAL
Walter H. Bullwinkle, Fairbanks, Territory of Alaska
Application February 19, 1951, Serial No. 211,727
9 Claims. (Cl. 214—130)

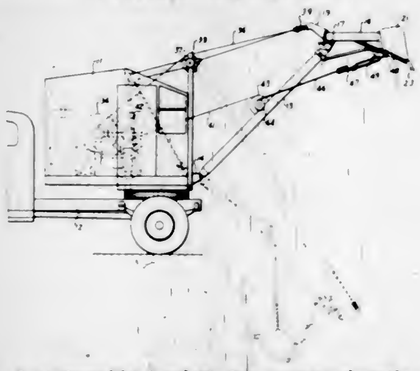
1. A machine for handling discrete material and for elevating it from a ground level delivery to an upper discharge point, comprising: a frame in which said material is to be elevated includ-

ing a first pair of upright columns and a second pair of upright columns positioned in advance of the said first pair; an arcuate rocker pivotally mounted at its axis to each of said columns of the first pair; each said rocker having a rigid arm projecting radially from one end of the arc thereof; an elongated scoop supportedly mounted at each end on one of said rocker arms and ranged to receive material shoved thereto when said rocker arms are in depending position; a cable anchored at each end to one of said rockers at that end of the arc that is opposite the loca-



tion of the rigid arm thereof; said cable being guidedly supported by said second pair of upright columns and extending therebetween to locate a bight of the cable in advance of said scoop; a self-powered vehicle to push material into said scoop when the same is in the material-receiving position; and an upstanding horn on said vehicle to engage and pull upon said cable bight when the vehicle is withdrawing from the scoop to impart a draft on the cable and its ends and actuate the rockers and their arms to produce elevational motion of the scoop to the upper discharge point.

2,657,814
BUCKET FOR POWER SHOVELS
Luke E. Smith, Denver, Colo., assignor to Quick-Way Truck Shovel Co., Denver, Colo., a corporation of Colorado
Application September 17, 1948, Serial No. 49,805
5 Claims. (Cl. 214—138)



1. A swingable bucket for power shovels and the like comprising a dipper stick pivotally mounted on the boom forming a part of the power shovel, bucket sides fixedly attached to said dipper stick, a pivot shaft connecting the sides, a curved movable bottom member pivoted about said shaft, and a rigid arm pivotally secured to the boom in spaced relation to the dipper stick pivot and pivotally connected to said bottom for moving the bottom between the sides when the dipper stick is raised to a dumping position.

2,657,815
ELEVATING AND DUMPING APPARATUS
Lowell J. Collins, Oakland, Calif.
Application December 26, 1951, Serial No. 263,253
10 Claims. (Cl. 214—313)

1. Container elevating and dumping means comprising, a housing, a platform and a support therefor, elevating and lowering means for said platform and support, means cooperative between said housing and said platform and support during the terminal portion of the elevating movement for inverting said platform and support, and for returning said platform and support to an upright position during the initial lowering movement, means for securing containers on said platform, and eccentric means cooperative between said support and said platform and including driving means for agitating said platform relative to said support for thorough discharge of contents from the containers when said support and platform are in the inverted position; said elevating and lowering means including guide members, a first shaft, guide sleeves slidable on said guide members and

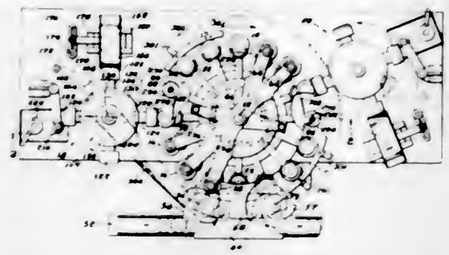


having forwardly projecting arms with said first shaft rotatably supported by said forwardly projecting arms, and with said support supported by said shaft, said means cooperative between said housing, and said platform and support comprising a camway formed vertically in said housing and terminating at the upper end in a diagonal portion, and a lever pivoted to each guide sleeve and each having a roller operating in said cam way and including operative connections between said lever and said first shaft for maintaining said platform in an upright position while the rollers are operating in the vertical portion and inverting said platform when said rollers enter and travel in said diagonal portion, with said operative connections comprising said means cooperative.

2,657,816
BOTTLE LABELING MACHINE
Arthur C. Everett, Brighton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application May 28, 1949, Serial No. 95,937
7 Claims. (Cl. 216—55)

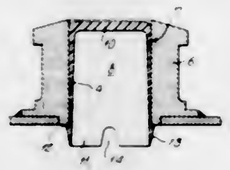
1. In a labeling machine, in combination, means for supporting and continuously moving successive containers to be labeled, a plurality of continuously moving label applying mechanisms arranged to apply labels to successive containers as the containers are continuously moved through the machine, and means for changing the position of successive containers after a label has been applied to one face thereof to present a different face into operative position for the application of a label thereto by a succeeding label applying mechanism, and means complementary to a container surface carried by and movable with said continuously moving and supporting

means for pressing the applied labels throughout their areas into firm engagement with the con-



tainer during the continued movement of the container through the machine.

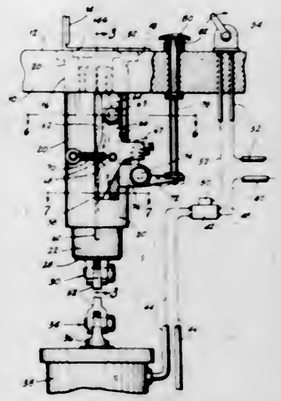
2,657,817
PLASTIC BUNG FOR BEER BARRELS OR THE LIKE
Victor Alvear, Passaic, N. J.
Application August 10, 1950, Serial No. 178,654
1 Claim. (Cl. 217—110)



The combination with a bung bushing for beer barrels or the like having a substantially cylindrical passage therethrough, of a cup-shaped bung formed of a molded synthetic elastomeric plastic having the characteristic of being form retaining under normal pressure but capable of deformation under excessive pressure and return to its original form upon release of such pressure, said bung being of a diameter capable of being driven into the cylindrical passage through the bushing in reverse position, the closed impact receiving wall of said bung being comparatively thick and rigid, the side wall of said bung tapering in thickness from the closed end to the open end and said wall and being of greater height than the the cylindrical opening in the bushing in which the bung is driven, said taper imparting a greater degree of flexibility to the open edge of the bung wall, and a surrounding shoulder on the side wall adjacent its open edge adapted to be deformed inwardly as the bung is being driven in the bushing passage and to snap out against the bottom edge of the bushing when the closed wall of the bung is driven entirely below the outer edge of the bushing.

2,657,818
DEVICE FOR INSERTING PLIABLE GROMMETS
Siegfried Mueller, St. Louis, Mo., assignor to Missouri Automatic Control Corporation, St. Louis, Mo., a corporation of Missouri
Application August 10, 1950, Serial No. 178,580
4 Claims. (Cl. 218—14)

1. A machine for inserting grooved pliable grommets into wall apertures smaller in diameter than the grommets comprising, a stationary work support having a surface adapted to abut the wall into which a grommet is to be inserted and having a sizing bore therethrough perpendicular to said surface, a contractable sleeve element reciprocating in said bore, said sleeve element consisting of a circular metal tube having a plurality of circumferentially spaced longitudinal slits extending inwardly from one end for a part of the length of said tube so as to provide a plurality of circularly arranged resilient finger members, said fingers being formed so as normally to diverge toward their free outer ends, and said fingers each having a short portion at its outer free end which is formed inwardly relative to its diverging portion to the extent that said short portion is substantially parallel with said tube in its non-contracted con-



dition, whereby said short portions collectively then provide a short contractable cylindrical portion at the flared end of said tube which is adapted to receive a grommet, said tube being positioned with its small end in said bore, and said tube having a sliding fit relationship with said bore, whereby the entire tube, with the exception of the short contractable-cylindrical end portion, assumes a cylindrical shape when drawn into said bore, and whereby said short contractable-cylindrical end portion assumes a frustoconical shape adapted to facilitate entry into a wall aperture when said sleeve element is projected only slightly outward beyond the surface of said member, and means for reciprocating said sleeve element.

2,657,819
ELEVATED STORAGE TANK
Bryan Blackburn, Newnan, Ga., assignor to R. D. Cole Manufacturing Co., Newnan, Ga., a corporation of Georgia
Application October 25, 1950, Serial No. 192,070
8 Claims. (Cl. 220—1)

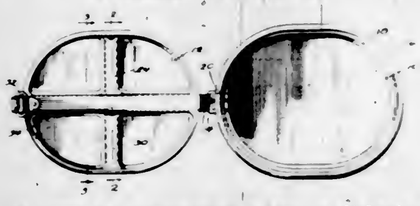
1. Storage tank for liquids comprising a shell constituting the direct bounding wall of a liquid containing chamber symmetrical with respect to a vertical axis having a lower upwardly flared portion and an upper spherical portion, the adjacent ends of said portions being in spaced parallel planes the adjacent end of said spherical portion being above the adjacent end of said flared portion, and its diameter being less than the diameter of said flared portion as well as the great circle diameter of said spherical portion, and an annular beam of Z cross-section between the adjacent ends of said portions arranged with its web directed convergently substantially in the general

direction of the center of said spherical portion, and having upper and lower flanges secured re-



spectively circumferentially, to the adjacent end margins of said portions.

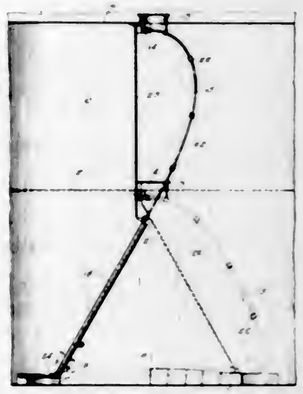
2,657,820
MESS KIT
Arthur H. Quigley, Baltimore, Md.
Application August 16, 1950, Serial No. 179,759
4 Claims. (Cl. 220—4)



1. A mess kit comprising a pan, a dished cover for said pan, an elongated handle hinged to one end of said pan, said dished cover having an axially disposed first recessed portion extending from end to end of said cover and a second recessed portion intersecting said first recessed portion at a right angle, and an auxiliary support mounted on said handle intermediate the ends of said handle and at a distance from the hinged end of said handle at least equal to the distance from the intersection of said first and second recessed portions on said cover to an end of said first axially disposed recessed portion, said handle interfitting with said axially disposed first recessed portion of said cover, and said auxiliary support interfitting with said second recessed portion of said cover; whereby when said mess kit is in use, said cover may be placed on said handle and auxiliary support in securely supported position.

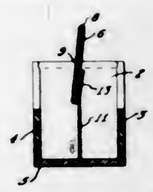
2,657,821
DRAIN
Frederick D. Moyer, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois
Application November 2, 1949, Serial No. 125,063
2 Claims. (Cl. 220—26)

1. A drain for a sump in a floating roof tank comprising a flexible hose having its upper end connected to the sump and having its lower end connected to an outlet at the bottom of the tank, said hose having external connections at the sump and said outlet permitting withdrawal of the hose and replacement thereof at any position of the roof in the tank, an inflexible elongated hose guard covering only the lower portion of the hose and having one end mounted on the bottom of the tank near the lower end of the hose for pivotal movement in a substantially vertical plane, a hose platform on the tank bottom and positioned under the other end of the hose guard when the guard is in a substantially



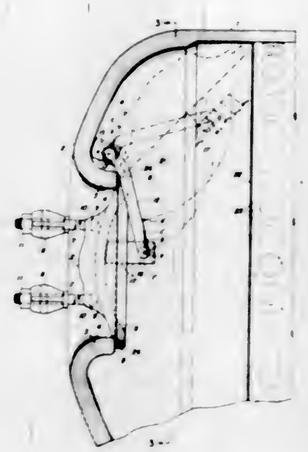
horizontal position, said hose guard being shaped to permit withdrawal of the hose therefrom and being in the form of a channel iron positioned with its legs extending downwardly from its base and a flexible support attached to the roof and to said other end of the hose guard, said support having a length shorter than the remaining portion of the hose, to raise the hose guard and lower hose portion when the roof rises near the top of the tank.

2,657,822
CONTAINER COVER
Robert O. Simpson, Cincinnati, Ohio
Application October 31, 1950, Serial No. 193,065
6 Claims. (Cl. 220—31)



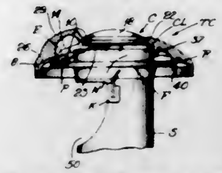
1. In a box having two side walls and two end walls, a cover positioned between said side walls and said end walls, pivoting means associated with said side walls and said cover and located between said cover ends so the cover may be pivoted in a plane parallel to said side walls and latching means for said cover comprising an indentation in at least one end wall receiving an end of said cover, at least a portion of said end wall carrying said indentation being free from said side walls so that it may be sprung outwardly by pressure exerted on the cover to permit a cover end to move out of said indentation and open the box, and a partition between said side walls terminating directly below said pivoting means, and having at least its upper end free from said side walls so it may be fixed when said cover is swung on said pivoting means and comes in contact with said partition end.

2,657,823
PRESSURE DRUM MANHOLE COVER AND INTERNAL SUPPORT THEREFOR
Floyd H. Skinner, Parkchester, N. Y., assignor to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware
Application April 8, 1952, Serial No. 281,111
3 Claims. (Cl. 220—34)



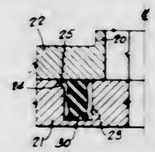
1. In a pressure drum having a generally rounded end portion with a manhole opening centrally thereof formed by means of an inwardly projecting flange providing a seat means at its inner extremity, a manhole cover for said opening arranged to seat on said seat means and a partition extending transversely of said drum at a predetermined distance from said end; the improvement comprising means for supporting said cover within said vessel in a manner to permit movement thereof from a closed position in engagement with said seat to an open position entirely free of interference with access to the interior of said drum through said opening, said means including a generally U-shaped link having one leg thereof pivotally mounted within said drum about a pivotal axis located outwardly of said seat and adjacent to said rounded end, the other end of said link being effectively pivoted to said cover about an axis laterally offset a predetermined distance from the center of said cover in a direction toward the axis of rotation of said one leg when said cover occupies its closed position in engagement with said seat, the effective length of said link being substantially equal to the distance from said effective pivotal axis to the most remote edge of said cover with the legs of said link being of sufficient length to permit rotation of said cover through the space enclosed by said legs, whereby said link may be rotated about its pivotal connection to the drum to move said cover from the closed to the extreme open position simultaneously with which said cover may be rotated in the opposite direction about said effective pivotal axis to a point where the edge of said cover that is most remote from said effective pivotal axis lies in juxtaposition to but spaced from said seat thereby requiring a practical minimum predetermined distance between said transverse partition and said drum end for the opening and closing movement of said cover.

2,657,824
TANK CAP
Frank N. Mariani, New York, N. Y.
Application July 20, 1950, Serial No. 174,922
8 Claims. (Cl. 220—35)



1. In a tank cap, a tubular shell having a laterally extending flange and including a rim above and integral with said flange, a closure having an arm, means swingably holding said arm to said flange, a head embodying an opening, a hollow collar for removably receiving said closure and lining the wall of said opening, a member depending from said head and closely surrounding said rim, means depending from said head and fixedly holding said flange to retain said rim against said collar, and spring means for holding said closure elevated to removably seal said collar.

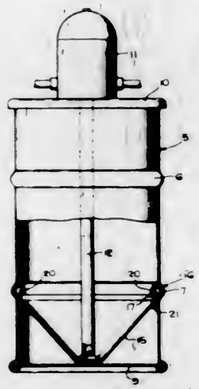
2,657,825
SEAL
Anton F. Erickson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 24, 1950, Serial No. 170,071
2 Claims. (Cl. 220—46)



1. A seal structure for sealing a joint between two members around an opening provided in at least one of the members, including in the combination, a pair of engaging members at least one of which has an opening in the same and engaged adjacent the periphery of the opening by the other member establishing thereby a joint line between the said members, one of said members having a channel therein adjacent the periphery of the opening with one end of the channel terminating at the line of the joint, at least one edge of said channel being chamfered upwardly relative to the channel and angularly relative to the line of the joint with the outermost extremity of the said edge terminating at the line of the joint and forming therewith the apex of a wedge shaped chamber around one edge of the said channel, the other of said members having a relatively flat surface extending across the said channel and said wedge shaped chamber and engaging said one member at the line of the joint at the edges of the said channel and the said chamber to close the same at the line of the joint, and a resilient elastically deformable seal member in said channel having in transverse cross section a width dimension substantially less than the width dimension of said channel and a depth dimension substantially greater than the depth dimension of said channel with a total volume less than the volume of said channel and said chamber when confined in said channel between said members, said seal member being movable bodily transversely of said channel in a di-

rection opposite to the direction of entry of pressure into the channel for engagement with a side wall of the channel and deformable into said wedge shaped chamber to seal the joint line at the apex of the said chamber.

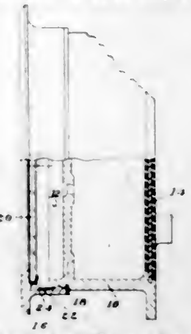
2,657,826
CONTAINER BOTTOM STRUCTURE
George W. Ludowitz, Los Angeles, Calif.
Application May 27, 1950, Serial No. 164,790
2 Claims. (Cl. 220—66)



1. A combination to permit the material in a barrel to concentrate in a small area at the bottom of the barrel where it may be removed therefrom comprising a cylindrical barrel, a frustoconical element having a cylindrical rim terminating in a free edge at the large diameter end thereof and a wall with a slope such that the material in said barrel will slide down said wall by gravity, said element being positioned at the bottom of said barrel with the large diameter end uppermost and having a small substantially flat area at the bottom thereof, and a flexible gasket attached to a portion of said element on the outside surface thereof only at points downwardly spaced from said free edge and extending over said free edge so said gasket can adjust itself to different contours of the internal surface of said barrel when positioned therein.

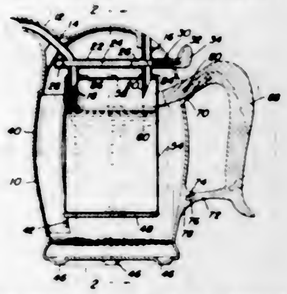
2,657,827
BEZEL RETAINING MEANS FOR INSTRUMENT CASES
Joseph J. Jankot, Milford, Conn., assignor, by mesne assignments, to Acragage Corporation, Milford, Conn., a corporation of Massachusetts
Application February 23, 1951, Serial No. 212,285
4 Claims. (Cl. 220—82)

1. In an instrument case the combination comprising a housing having a front opening, a bezel fitting said opening for holding a cover member thereover and at least one spring retaining clip fitting within said bezel, said clip having an intermediate rearwardly facing bezel retaining surface and an inwardly and forwardly facing housing gripping surface generally at its rear end and being turned rearwardly and inwardly at its front end to form an angle bracket to the rear of said bezel, said bezel having an inwardly and forwardly facing locking surface, and a forward portion of said housing having an outwardly and rearwardly facing surface, said angle bracket being seated against the rear radial corner of said cover member, said gripping surface of said clip yieldably gripping said outwardly and rearwardly facing surface of said housing, said bezel retaining surface of said clip being locked in front of said locking surface of said bezel, and a portion of the outer surface of said clip resting generally



against the internal surface of said bezel, whereby said cover member is retained in said bezel and said bezel is simultaneously held to said housing, said clip maintaining the locked engagement of said several surfaces.

2,657,828
MILK CAN CONTAINER
Claude C. Crippen, Arlington, Fla.
Application October 17, 1949, Serial No. 121,809
11 Claims. (Cl. 222—83.5)

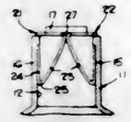


1. A creamer comprising a receptacle, a container supporting elevator disposed in said receptacle and an outlet spout secured to said receptacle having an inner sharpened end to penetrate the container, means pivoted to said receptacle for lifting said elevator to press the container piercingly against said sharpened end, said means comprising a handle, a locking device operatively connected with said handle and said receptacle releasably holding said handle in such position as to retain said elevator in the raised position, an air vent member secured to said receptacle and having a sharp end to penetrate the container, a valve carried by said receptacle for alternately closing and opening said vent member and said outlet spout, said elevator having means forming a part thereof for gripping the top of the container so that when the elevator is moved away from said spout and vent member, the container is pulled from said spout and said outlet member.

2,657,829
COLLAPSIBLE TUBE CLOSURE OPENABLE BY PRESSURE OF THE CONTENTS
Lila M. Walch, Los Angeles, Calif.
Application August 17, 1950, Serial No. 180,002
9 Claims. (Cl. 222—92)

1. A collapsible tube having an outlet opening through which the contents of the tube may be

expelled, spaced apart, opposed flanges on the sides of the opening and on the outer end thereof for slidably confining at least one closure element against the outer end of the opening, at least one closure element slidable beneath the flanges



from open position to closing position, and a spring integral with the closure element and extending therefrom into the outlet opening and bearing against a wall thereof normally urging the closure into its closing position.

2,657,830
LIQUID DISCHARGE DEVICE FOR WASHING MACHINES
Allan L. Briggs, Jamestown, N. Y., assignor to Blackstone Corporation, Jamestown, N. Y., a corporation of New York
Application February 11, 1950, Serial No. 143,650
2 Claims. (Cl. 222—173)



1. In a washing machine having a casing, legs supporting said casing and one of said legs being co-extensive and cooperating with said casing to form a closed vertical passageway; a liquid discharge device comprising a sleeve located in said passageway, means securing said sleeve with its upper end terminating at the upper end of said one leg, a retractable tubular member, one portion of said member having telescoping engagement with said sleeve and being movable into a position of concealment within said sleeve, another portion of said member being disposed substantially at right angles to said one portion and terminating in a discharge spout, means providing a liquid seal between said sleeve and said member in all relative positions, and further means carried by said sleeve for limiting the extent of withdrawal of said first mentioned portion therefrom.

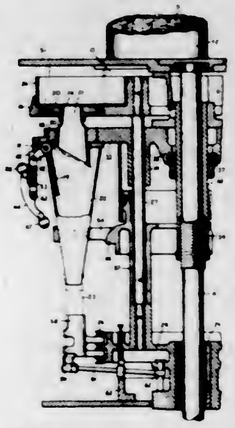
2,657,831
FERTILIZER DISTRIBUTOR
Bernell E. Pierce, Pleasanton, Calif.
Application January 10, 1951, Serial No. 205,340
2 Claims. (Cl. 222—272)

1. In a material distributor having a hopper, and a longitudinal auger feed unit in the bottom of the hopper; said auger feed unit comprising a feed tube, there being spaced intake openings in the top of the tube and spaced outlet openings in the bottom of the tube, corresponding intake and outlet openings being staggered relative to each other, and an auger conveyor in the tube having flights arranged to feed material between said corresponding openings; the tube extending to the ends of the hopper, there being



endmost outlet openings in the tube adjacent but short of corresponding ends of said hopper, the related flights of the auger conveyor feeding toward said endmost outlet openings from laterally and inwardly thereof, and said tube having safety openings in the bottom thereof between said endmost outlet openings and said corresponding ends of the hopper.

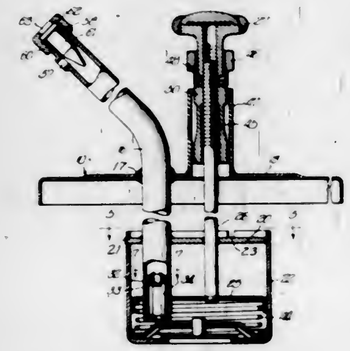
2,657,832
ROTATING TRAP PORTIONING DEVICE FOR GRANULAR MATERIALS
Alfred German Rose, James Arthur Kay, and James Page, Gainsborough, England, assignors to Rose Brothers (Gainsborough) Limited, Gainsborough, England, a British company
Application July 10, 1950, Serial No. 172,862
6 Claims. (Cl. 222—295)



1. Apparatus of the type described for packaging fluent materials, comprising upper and lower pocket-carrying members mounted for rotation about a common axis and relatively movable in an axial direction, at least one pocket adapted to receive successive charges of material, said pocket being constituted by an upper portion secured to the upper pocket-carrying member, a lower portion secured to the lower pocket-carrying member and an intermediate portion of deformable flexible material connecting the upper and lower portions, means for rotating the upper and lower pocket-carrying members in unison to carry the pocket to successive oper-

ating stations and means for causing a relative axial movement between the upper and lower pocket-carrying members so as to deform the intermediate portion of the pocket and thus vary the capacity of the pocket.

2,657,833
SIRUP PUMP
Myron E. Steczynski, Walter W. Biederstadt, and Earl V. Rupp, Chicago, Ill., assignors to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application April 28, 1949, Serial No. 90,209
19 Claims. (Cl. 222—309)



1. A syrup pump comprising a cover plate adapted to be received on a syrup jar, a discharge tube passing through said cover plate to a point within the syrup jar, a second plate having a plurality of projections about its circumference disposed near the lower end of said tube, a cylindrical cup having a plurality of bayonet slots therein adapted to receive the projections of said second plate, an opening in each of said plates, a rod extending through both openings, a piston on the lower end of said rod having a diameter substantially the same as the inside of said cup, an opening through said piston through which the discharge tube passes, an inlet valve including a valve member and a valve guide spider disposed in the bottom of the cup, means for manually moving said rod downwardly to actuate said piston, and a coil spring received within said cup between said valve guide spider and the piston for moving said piston upwardly.

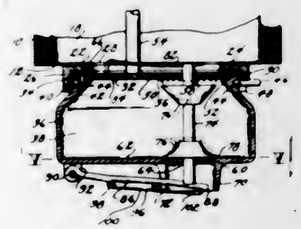
2,657,834
HAND ACTUATED DISPENSER PUMP
"D" Flavius Bacheller, Glendale, Calif., assignor to "Pump-It" Incorporated, a corporation of California
Application October 12, 1948, Serial No. 54,084
7 Claims. (Cl. 222—321)

1. A pump comprising a pump cylinder having a bore tapered inwardly from the outer toward the inner end, an inlet to said bore having a valve therein, and a piston reciprocably mounted in said inwardly tapered bore comprising a tube having an outlet at the outer end thereof and a valve adjacent the outlet, said piston having an annular recess in the outer surface of fixed breadth and depth comprising a bottom wall and side walls, and an annular pump washer in said annular recess of resilient material having an internal diameter greater than the diameter of all portions of the bottom wall of the recess, a breadth less than the breadth of the recess at all portions of the side walls and a relatively sharp annular edge greater in external diameter than the internal diameter of the largest



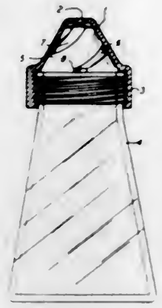
section of said bore within the range of piston operation, the external surfaces of said washer having a progressively varying area of contact with the bore throughout the inwardly tapered portion during reciprocation of the piston.

2,657,835
VALVE MECHANISM FOR BEVERAGE DISPENSING DEVICES
John Dudrich Gerken and Harold Vincent Madden, Toledo, Ohio
Application August 24, 1949, Serial No. 112,148
7 Claims. (Cl. 222—442)



1. A dispenser for liquids comprising a bulk liquid tank having an outlet through the floor thereof, a cup-shaped member suspended beneath said outlet having a chamber therein of a predetermined capacity for receiving successive liquid portions from the tank, a partition across said outlet having an aperture therein for the liquid to flow therethrough from the tank into said member, said partition providing a first bearing adjacent said aperture, said member having a discharge port and a second bearing adjacent thereto in alignment with said first bearing, a stem reciprocable in said bearings, a first flexible cup-shaped closure carried by said stem for sealing said aperture at one directional limit of its reciprocation, a second flexible cup-shaped closure carried by said stem in spaced relationship from said discharge port when said first closure seals said aperture, and spring means normally shifting said stem to move the second closure into port sealing position and move the first closure clear of the aperture.

2,657,836
DISPENSER
Alfred Heinz, Union, and Julius Hoegermeyer, Irvington, N. J., said Heinz assignor to said Hoegermeyer
Application December 22, 1952, Serial No. 327,369
3 Claims. (Cl. 222—545)



1. A device for dispensing granular material comprising a container for the material having an open end, a cap secured to the open end thereof, said cap having a single discharge opening and being provided with an insert cooperating therewith to provide at least one closed spiral discharge path for the material, interconnecting the container and the discharge opening.

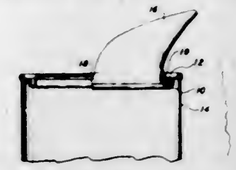
2,657,837
DISPENSER CLOSURE TOP WITH POURING SPOUT AND SLIDABLE CLOSURE
Rudolph Bernhardt, Chicago, Ill.
Application August 18, 1949, Serial No. 111,013
5 Claims. (Cl. 222—561)



1. A dispenser closure top consisting of a cap for engagement with a container, having a transverse flattened surface with a pouring spout at one end thereof and having a transverse slot adjacent to the spout, a closure blade adapted to cover the slot and spout when in closed position, said blade having a thumb-piece for actuating the same and having an integrally formed T-shaped button with a head having flattened sides whereby it may be inserted through the slot and turned under the same for holding the blade in operating position, the blade also having a lug adapted to engage with the slot to hold the blade in operative position, the blade being sufficiently flexible so that the lug may be raised out of the slot for removing the blade from the cover.

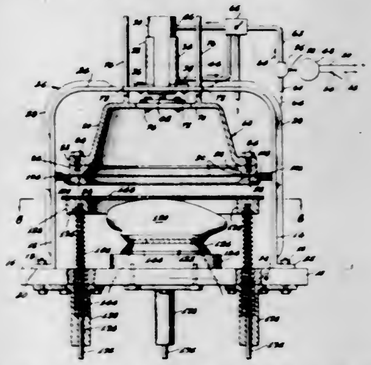
2,657,838
POURING SPOUT
Edwin E. Kramer, South Pasadena, and Alfred Kramer, San Gabriel, Calif.
Application November 2, 1951, Serial No. 254,584
4 Claims. (Cl. 222—569)

1. A pouring spout for a can having a lid retention groove, comprising a unitary resilient member having a curved channel portion for engaging the under side of the lid retention groove of the can and having a generally crescent-shaped pouring lip extending from the inner leg of the curved channel portion, the portion of the member between the inner leg of the channel portion and the pouring lip having an indentation



therein for engaging the inner rim of the lid retention groove of the can.

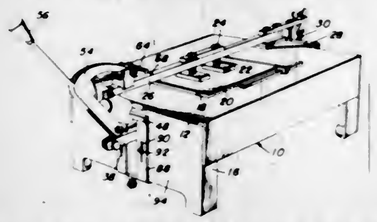
2,657,839
CAP FORMING APPARATUS
Isadore Kiwad, Westwood, N. J.
Application January 4, 1951, Serial No. 204,367
3 Claims. (Cl. 223—12)



1. A cap making device comprising a table, a lower die shaped to the contour of a cap and supported on said table, the base of said lower die having a first annular groove formed in its perimeter, means for heating said lower die, and for applying moisture, a plurality of vertical bearing members carried by said table, a lower cap blank supporting ring having an opening large enough to allow said lower die to pass therethrough, and normally disposed above said lower die, rods secured to said lower cap blank supporting ring and slidably engaging said vertical bearing members for vertical movement with said lower ring relative to said table, spring means acting between said lower ring and said table to bias said lower ring in an upward direction, so that a cap blank of sheet material may be disposed on said lower ring above said lower die, a frame mounted on said table, an upper die having a downwardly open recess formed therein supported by said frame, an upper ring carried by and movable with said upper die and having a second annular recess formed in its inner surface, power actuated means on said frame for normally maintaining said upper die and upper ring in upper position, spaced from said lower die and said lower ring, and for moving said upper die and upper ring downwards into contact with said blank disposed on said lower ring, said upper die and ring being adapted during said downward motion to carry said blank and lower ring downwards, so as to draw and stretch said blank over said lower die to partially shape said blank whereby the top portion thereof assumes the contour of the upper portion of said lower die leaving a depending skirt portion and means adapted for engaging the skirt portion of said partially shaped blank for draw-

ing the same inwards into contact with the lower portion of said lower die so as to be shaped thereby, and means for releasing said engaging means; said means adapted for engaging the skirt portion of said partially shaped blank and for drawing the same comprising a draw wire of resilient material having two ends and with its intermediate portion formed into a loop which is normally seated in said second annular recess formed in said upper ring, and adapted when said upper ring is brought downwards into the same plane as said first annular groove in the base of said lower die, upon its ends being pulled in opposite directions, to resiliently constrict said loop to a smaller size, thereby drawing said skirt portion of said blank inwards to contact with said first annular groove so that said skirt portion of said blank is brought into contact with said lower contour of said lower die so as to be shaped thereby, and whereby, upon release of the pulling force on said ends of said draw wires, said draw wire loop normally resiliently enlarges again, allowing said shaped blank to be withdrawn from said lower die.

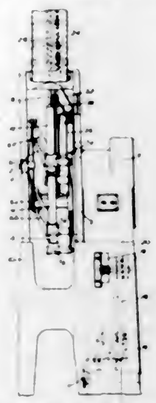
2,657,840
LEVER LOCK FOR PRESSING MACHINES
Jacob M. Bernstein and Clarence E. Robertson, Jr., Pocomoke City, Md.; said Robertson, Jr., assignor to said Bernstein
Application August 9, 1951, Serial No. 241,032
9 Claims. (Cl. 223—38)



1. In a fabric edge folding device including a base plate having an opening therein, folding plates mounted for movement inwardly of the periphery of said opening, a pusher plate for moving said folding plates, a lever, and a forming plate mounted on said lever and movable therewith into edge forming position in said opening; a keeper in said folding device, and latch means pivotally mounted in said lever and movable relative thereto to sequentially engage said pusher plate and said keeper and thereby lock said forming plate in its edge forming position, an arm and a presser plate mounted on said arm for movement therewith into and out of engagement with said forming plate when the latter is disposed in said opening, said latch means including means engageable with said arm to move said presser plate into engagement with said forming plate.

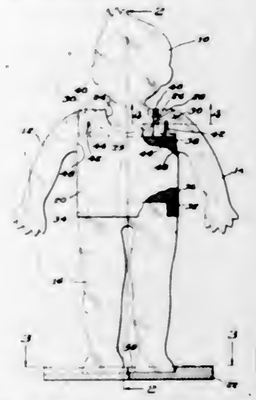
2,657,841
APPARATUS FOR TURNING STOCKINGS AND THE LIKE
Frank Andrew Landucci, London, and Edwin Ivan Rusted, Wolvey Villa, near Hinckley, England, assignors to The Charnwood Engineering Company Limited, London, England
Application July 25, 1950, Serial No. 175,714
13 Claims. (Cl. 223—40)

1. Apparatus for turning flexible tubular objects inside out comprising, in combination, a supporting frame; two carrier members mounted on said frame rotatable in spaced planes about parallel axes; at least one link means connecting said two carrier members for rotation; at least one tubular object receiving member mounted on said link means for movement along an endless path and being adapted to have a flexible tubular object passed over it; at least one object turning member reciprocably mounted on said frame and in the plane of said path of said tubular receiving member; operating means



mounted on said frame for imparting a step by step rotation to said carrier members so that said tubular receiving member pauses in the region of said turning member; reciprocating means for reciprocating said turning member between a retracted position and an advanced operative position projecting into said tubular receiving member when the same pauses in said region so as to turn an object thereon inside out; and drive means for driving said operating means and said reciprocating means.

2,657,842
GARMENT DISPLAY FORM
Irene P. Smith, Needham, Mass., assignor to The William Carter Company, Needham Heights, Mass., a corporation of Massachusetts
Application June 6, 1950, Serial No. 166,337
3 Claims. (Cl. 223—68)



1. A display form for garments comprising head-, arm- and bifurcated leg-forming elements of substantially flat, relatively stiff transparent sheet material having outlines along their edge portions simulating the head, arms and legs, respectively, of a human figure, and a flat torso of slightly greater thickness than the thickness of said sheet material adapted to support said head- and arm-forming elements and to be supported by said leg-forming elements, said torso having along its top, side and bottom edge portions slot-like recesses for detachably receiving extending portions of said elements to form mortise-joints therewith, and rigid pegs extending transversely of the arm-forming element receiving recesses, said arm-forming elements having slots for engaging said pegs and edge surfaces cooperating with edge surfaces of said torso to limit downward movement of said arm-forming elements relative to said torso, and a standard for said form having slots therein for receiving the bottom edge portions of said leg-forming elements, said slots being angularly related for tensioning the sheet material of said leg-forming element out of its normal plane when said leg-forming element edge portions are seated in said standard slots.

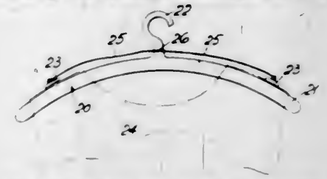
2,657,843
DRESS FORM
Doris P. Wiesner, Winnipeg, Manitoba, Canada
Application November 24, 1950, Serial No. 197,236
1 Claim. (Cl. 223—68)



A form for the designing, fitting and alteration of dresses, suits and the like, including a body portion, the configuration of said body portion being substantially similar to the configuration of the human body, said body portion being formed from sponge rubber, vertical apertures extending clear through said body portion to facilitate the expulsion of air when same is compressed, a supporting tube extending vertically through said body portion, plates situated at the top and bottom of said body portion, and secured to the ends of said tube, apertures in at least one of said plates, said apertures aligning with said vertical apertures in said body portion, and a supporting stand slidably engageable by said supporting tube.

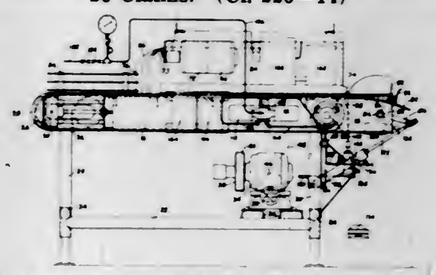
2,657,844
GARMENT HANGER WITH MAGNETIC ACTION AND THE LIKE
Benjamin Weiss, Flushing, N. Y.
Application August 23, 1948, Serial No. 45,638
6 Claims. (Cl. 223—93)

1. In a garment hanger, an element to receive a garment draped thereon, said element comprising a suspension member and arms extending outwardly from the opposite sides thereof, a magnetic member adapted to be removably placed over the garment, magnetic means on the garment receiving element adapted to react to said magnetic member and thereby temporarily secure the same and therethrough the garment on said receiving element, said magnetic member be-



ing carried by a portion of said hanger relatively movable with reference to said garment receiving element.

2,657,845
CONTAINER PACKAGING APPARATUS
Richard A. Smith, Pittsburgh, Pa., assignor to H. J. Heinz Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 10, 1951, Serial No. 241,221
26 Claims. (Cl. 226—14)

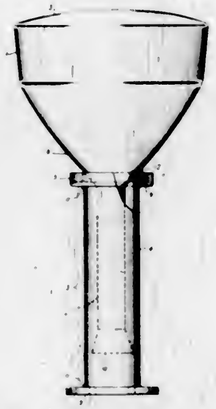


1. A container packaging machine comprising a support, a conveyor belt mounted for movement in a closed cycle at the top of the support, means to move the conveyor, side guides at the front end of the conveyor belt for the heterogeneous assembly of containers, a series of distributing plates supported above the belt, said plates being sufficiently wide to arrange comparatively tall containers in upright position and being movably suspended in vertical position from one edge with the other edge closely adjacent the belt and spaced apart a distance slightly greater than the width of the container being packaged, means to oscillate the front ends of the plates transversely of the belt to guide containers from the assembly station into the lanes arranged between the plates, a tiltable table mounted at the rear end of the belt with its upper surface in alignment with the top of the belt to receive containers from the belt, positioning means on the table arranged to assemble a definite number of containers from the belt in position for the insertion of a carton thereover, means for tilting the table to discharge a loaded carton therefrom upside down, a yieldably mounted conveyor positioned to receive the discharged carton, a stop mounted at the front edge of the table, and means to move the stop in front of the rows of containers on the belt to hold back the containers while the conveyor continues to operate as the table is tilted.

2,657,846
COMBINATION HOLDER AND VACUUM-TIGHT SEAL FOR ENVELOPES
Henry H. Schmalz, Des Plaines, Ill., assignor to The Rauland Corporation, Chicago, Ill., a corporation of Illinois
Application March 9, 1948, Serial No. 13,886
1 Claim. (Cl. 226—20.4)

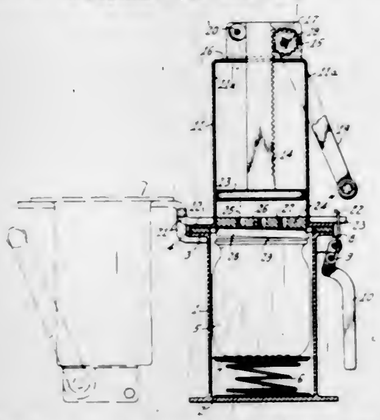
In a combination holder and vacuum tight seal for the bottle of a cathode ray tube having

an open-ended neck and conically shaped side walls, a cylinder for supporting the bottle, a collar fastened adjacent the upper end of said cylinder, a resilient washer having a square cross section cemented vacuum tight to the inside surface of said collar, the entire bottom and at least



one side of said washer being supported by said collar, said resilient washer having a sharp edge diagonally opposite the bottom outer corner thereof for contacting said conically shaped side walls of said bottle to form a vacuum tight seal therewith, and means for fastening the bottom end of said cylinder to a vacuum system.

2,657,847
JAR SEALING
Albert Heitmann, Hamburg-Niendorf, Germany, assignor to Will Hennings, Freeport, N. Y.
Application February 23, 1951, Serial No. 212,329
5 Claims. (Cl. 226—82)



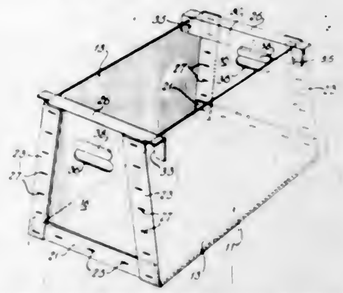
1. Device for vacuum-sealing preserving jars comprising means defining a vacuum receptacle for holding a jar to be sealed with its sealing ring and cover, means defining a closure for said vacuum receptacle, said closure being removably positioned for hermetically sealing said vacuum receptacle and having pressure means positioned at an inner edge of said closure for exerting a pressure upon one edge of a jar cover positioned in said vacuum receptacle to tilt the opposite edge upwardly, when said closure means is in sealing position, means for evacuating air from said receptacle when said closure means is in hermetically sealing position.

2,657,848
CLOSURE TOP
Jesse Norden, Kew Gardens, N. Y.
Application April 19, 1950, Serial No. 156,828
2 Claims. (Cl. 229—7)



1. The combination with a fibrous container for liquids having a neck provided with a laterally extending peripheral lip, of a closure top comprising two superposed laminated sheets of paper or the like, the bottom sheet fitting upon and being crimped over said lip, and said bottom sheet having a pouring opening therein near a marginal portion thereof, the top sheet structure completely covering the upper face of the bottom sheet and including a hinge extending medially thereof completely across the same, one half of the top sheet at one side of the hinge being fixedly secured to the bottom sheet to one side of the pouring opening in the latter, said half of the top sheet having its outer peripheral portion extending over and beneath said lip and being clinched against the adjacent marginal portion of the bottom sheet, the other half of the top sheet at the other side of the hinge being free for swinging movement and having an integral depressed portion constituting a plug extending below its lower face to fit into and seal said pouring opening, said last mentioned movable half of the top sheet when positioned to insert its closure plug into and seal the pouring opening fitting flat against the bottom sheet and extending flush with the other half of the top sheet and presenting therewith a substantially continuous flat outer face, and means sealing the movable half of the top sheet to the bottom sheet.

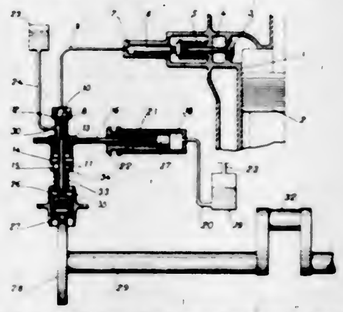
2,657,849
SHIPPING CONTAINER
Philip F. Paul, North Hollywood, and Louis O'Leary, Los Angeles, Calif., assignors to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
Application March 10, 1950, Serial No. 148,968
1 Claim. (Cl. 229—23)



An open-top, fiberboard shipping container for bananas and like commodities, comprising a rectangular bottom portion, inwardly inclined rectangular longitudinal side walls integral with said bottom portion, a pair of end wall members having side edges inclined inwardly and upwardly, said bottom portion and said longitudinal side

walls having inwardly turned flaps on their end edges and said flaps being secured to the marginal portions of the said end walls to provide a container having a rectangular open top of substantially lesser area than the area of said rectangular bottom portion, and integral extensions on the upper edges of said end walls bent inwardly to overlie the free upper edges of the longitudinal side walls in a plane parallel to the plane of the said bottom portion, said integral extensions extending laterally outwardly substantially beyond the upper ends of said side walls, the upper edges of said side walls being provided with downwardly-extending transversely-aligned slots adjacent each end wall and said integral extensions having downwardly-extending integral flaps received in said aligned slots of the side walls.

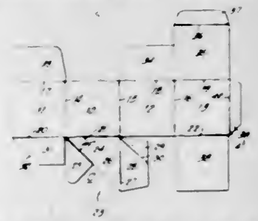
2,657,850
AUTOMATIC REGULATOR FOR COMPRESSORS
Joseph Abel Borel, Paris, France, assignor to Societe Schneider and Cie, Paris, France, a partnership of France
Application November 21, 1949, Serial No. 128,641
Claims priority, application France November 25, 1948
10 Claims. (Cl. 230—24)



1. In a regulator for compressors including a cylinder, a piston in said cylinder, a crankshaft for reciprocating the piston and driving means for rotating the crankshaft, a relief valve in the cylinder, hydraulic means for opening said valve, a variable discharge pump supplying liquid under pressure to said hydraulic means, cam means driven by the crankshaft for energizing said pump and hydraulic means including a piston responsive to the pressure in the intake of the compressor for increasing and decreasing the volume of discharge of said pump as the intake pressure increases and decreases.

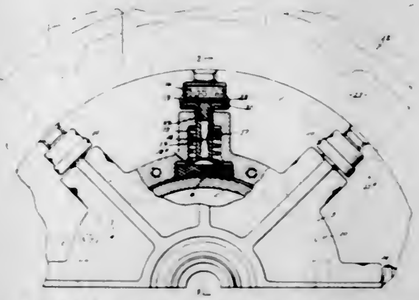
2,657,851
COLLAPSIBLE BOX
Henry L. Metzger, Castleton-on-Hudson, N. Y., assignor to Fort Orange Paper Company, Castleton-on-Hudson, N. Y., a corporation of New York
Application December 9, 1949, Serial No. 132,172
1 Claim. (Cl. 229—38)

In a cut and scored blank of paperboard material adapted to be folded and secured together to provide a collapsible box comprising front, rear and side walls, a bottom wall hingedly connected to the bottom of said front wall only along a fold line, said bottom wall having a cut-out section with a cut edge extending inwardly from one corner of its free end to a zone which is at least half the distance from said free end to said fold line and lying in a plane which constitutes a diagonal fold line that bisects the angle of the opposite corner to provide a glue flap constituting a portion of said bottom wall and foldable against the bottom of the remaining portion thereof and within the confines of said bottom which diagonal fold line extends from one end of said first named fold line, beginning at said opposite corner, to the depth of said cut-out section, said glue flap being smaller in area than said remaining portion of said bottom wall, which portion forms a right triangle, an extension panel hingedly integral with said open bottom wall only along one side thereof opposite said glue flap and terminating



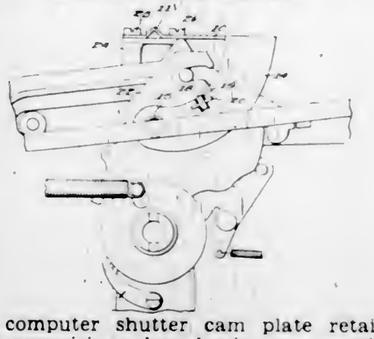
at one end adjacent a side wall, foldable upon itself, and in said foldable position being adapted adhesively to be secured to an adjacent side wall, an extension panel hingedly attached to the bottom of the other side wall and adapted adhesively to be secured to the glue flap constituting a portion of said bottom wall, and means adapted adhesively to secure said rear wall to said last named side wall; whereby said bottom wall is adapted automatically to unfold to opened, bottom-forming position from a folded and collapsed position when the walls of the box are squared with respect to each other from collapsed position.

2,657,852
COOLING FAN CONTROL FOR AIR-COOLED ENGINES
Charles B. Spase, Nedrow, N. Y., assignor to Lipe-Rollway Corporation, Syracuse, N. Y., a corporation of New York
Application April 14, 1951, Serial No. 221,019
5 Claims. (Cl. 230—271)



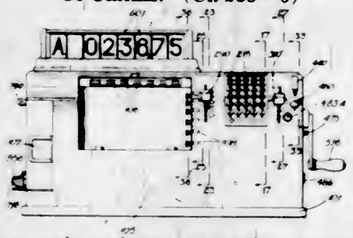
1. A fan for air cooled engines comprising a hub mountable on an engine actuated shaft, the hub having an annular friction face, a casing enclosing the hub to rotate relatively thereto, an annulus carried by the casing and having outwardly extending fan blades, a friction shoe carried by the casing and opposed to the friction face of the hub, a unitary device carried by the casing and rigid therewith and comprising a thermostatic element and means including a plunger located intermediate said element and said shoe to transfer the expansion of the thermostatic element to the friction shoe as the thermostatic element is heated by the heated air drawn by the fan.

2,657,853
COMPUTER SHUTTER CAM PLATE RETAINING BRACKET
John Masters Phillips, Norfolk, Va.
Application July 20, 1950, Serial No. 174,973
3 Claims. (Cl. 235—1)



3. A computer shutter cam plate retaining bracket comprising a base having a recess therein positioned to receive the tie bar of the machine and holes therein for receiving screws threaded in the upper end of the frame of the machine, said base having an arm positioned at a right angle thereto and extended over the outer surface of the cam plate and provided with an opening therein positioned to receive the end of a mounting shaft upon which the cam plate is positioned, and a roller journaled in the arm of the bracket and positioned to travel over the outer surface of the said shutter cam plate.

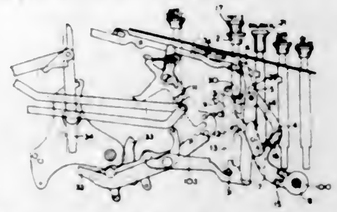
2,657,854
CASH REGISTER
Marcel Demeulenaere, New York, N. Y.
Application August 7, 1947, Serial No. 767,027
In Belgium February 11, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires February 11, 1962
36 Claims. (Cl. 235—6)



1. In a cash register; a totalizer comprising a series of totalizer wheels of different numerical orders; an operating shaft for said totalizer; means driving said shaft from its position of rest first in one direction and then in the other direction to return it to its rest position in each operating cycle; and individual clutch means between each individual totalizer wheel and said operating shaft, operative to connect said totalizer wheels with said operating shaft during any portion of its movement in either direction.

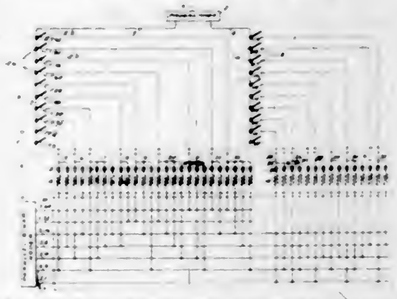
2,657,855
TRUE NEGATIVE OVERDRAFT MECHANISM FOR PLURAL TOTALIZERS
Max Winkler, Zurich, Switzerland, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application September 7, 1950, Serial No. 183,486
5 Claims. (Cl. 235—60.2)

1. In a machine of the character described having two add-subtract totalizers and separate means for each totalizer to control the functions therein, and having a device common to both totalizers to convert the complementary figure of an overdraft in either of said totalizers to a true negative figure, the combination of a cam constructed and arranged to be driven by the device; means including a shaft controlled by the cam; a part secured to the shaft; a member hinged to the part and controlled by the shaft; yieldable means normally effective to retain the member in coacting relationship with the separate means for a certain one of said totalizers whereby operation of the cam causes the complementary figure of an overdraft therein to be converted to a true negative figure; a cam part on the mem-



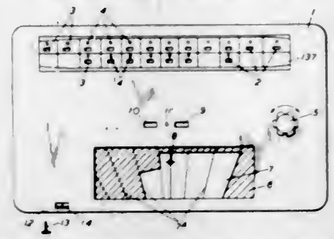
ber; a depressible overdraft control key; a stud in the key; an element comprising an extension coacting with the stud and an extension coacting with the cam part, said element effective upon depression of the overdraft key to move the member out of coacting relationship with said one separate means and into coacting relationship with the separate means for the other totalizer, whereby operation of the cam causes the complementary figure of an overdraft therein to be converted to a true negative figure; means normally effective to lock the overdraft key against depression; and means operable upon the occurrence of an overdraft in said other totalizer to unlock the locking means.

2,657,856
NUMBER CONVERTER
Robert A. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 15, 1949, Serial No. 127,468
6 Claims. (Cl. 235—61)



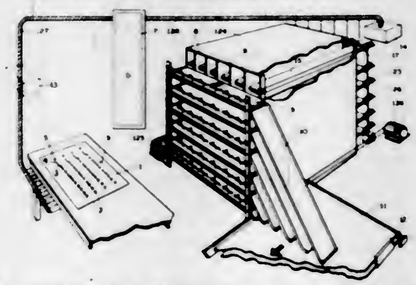
2. An electric device for converting a number of one radix to its equivalent number of a different radix comprising an electric programmer, a switch means electrically connected to said programmer in a predetermined order to be energized thereby, a parallel electric adder, an electric matrix electrically connected to said parallel adder in a predetermined order, and electric buffer means comprising neon tubes and associated resistors electrically connected in a predetermined relation between said matrix and said switch means.

2,657,857
AIRCRAFT LOAD COMPUTING APPARATUS
Jack Carreyette, Clifton, Bristol, England, assignor of one-half to British Overseas Airways Corporation, Brentford, England
Application October 22, 1951, Serial No. 252,543
Claims priority, application Great Britain October 26, 1950
27 Claims. (Cl. 235—61)



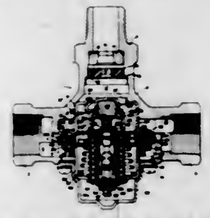
1. A computor for assessing the position in relation to a fixed datum in an aircraft of the center of gravity of a loaded aircraft which has various compartments and points at which load is applied, comprising a plurality of load members corresponding to the said compartments and points, means to displace said load members according to the load applied at the said corresponding compartments and points, and an indicator comprising cooperating relatively movable first and second indicating members, means to move said first indicating member upon displacement of any one of said load members by an amount proportional to said displacement, and means to move said second indicating member relative to said first indicating member upon displacement of any one of said load members by an amount proportional to the product of said displacement and the distance of the load represented by said displacement from said datum, such that the relative positions of said first and second indicating members show the relationship of the center of gravity of said loaded aircraft to said datum.

2,657,858
ARTICLE DISPENSING SYSTEM
Thomas S. Skillman, Mosman, near Sydney, New South Wales, Australia, assignor to Punch Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, a company of New South Wales
Application May 13, 1949, Serial No. 93,206
Claims priority, application Australia February 24, 1945
11 Claims. (Cl. 235—92)



9. A system for dispensing articles of varied character, comprising: a plurality of storage and dispensing devices for selectively dispensing articles therefrom; selecting means including contact members and switching means, said switching means being common to all said storage and dispensing devices, and electrical connections from said switching means to said storage and dispensing devices for selectively energising any of said storage and dispensing devices; value-registering and indicating means common to all said storage and dispensing devices; means electrically connected with said value-registering and indicating means and selectively operable responsive to the operation of said switching means by said contact members to cause the transmission of indications representing the value of each article selected from any of said storage and dispensing devices to said common value-registering and indicating means, a switching device operable at any stage of selection prior to discharge of a selected article for releasing all actuated switching means and means included in said value-registering and indicating means and electrically connected with and operable by said switching device to cancel any registration in said common value-registering and indicating means.

2,657,859
THERMOSTATIC MIXING VALVE
Adolf Von Wangenheim, Detroit, Mich., assignor to Detroit Controls Corporation, Detroit, Mich., a corporation of Michigan
Application August 28, 1950, Serial No. 181,741
20 Claims. (Cl. 236—12)



1. In a valve of the character described, a valve casing having an annular inlet portion, said casing having a central chamber for receiving fluid, a plurality of ports in said casing interconnecting said annular inlet portion and said central chamber; an annular valve member of a flexible, elastic, and highly resilient material positioned in said central chamber; said valve member being secured to the wall of said central chamber at one part and having another part movably engageable with the wall of said central chamber adjacent said ports and operable to control flow of fluid from said ports, a piston member movable relative to said movable valve member part and engageable therewith to determine the position of said movable part relative to said ports, and a thermostatic power element responsive to fluid temperature in said central chamber and operable to move said piston member to engage and flex said movable valve member part to seat in opposition to fluid flow upon the occurrence of a predetermined fluid temperature in said central chamber.

2,657,860
SINGLE HANDLE THERMOSTATIC MIXING VALVE
Edward G. Schmidt, La Grange, and Carl R. Stone, Lombard, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application January 16, 1951, Serial No. 206,201
6 Claims. (Cl. 236—12)

1. A mixing valve of the character described having a single means of actuation for control-

ling the mixed liquid temperature and the rate of flow therethrough, the combination comprising a valve body having hot and cold liquid inlets and a common mixing chamber, a bonnet mounted on the said valve body and having a liquid outlet in communication with the said mixing chamber, a valve seat within the mixing chamber, a proportioning valve comprising a hollow cylindrical member mounted for reciprocating movement between the said inlets and said mixing chamber to control the flow of hot and cold liquids into said mixing chamber, the said proportioning valve having an apertured transverse wall portion therewithin, an axially movable thermostat mounted in said mixing chamber



operatively connected to the said transverse wall portion of the proportioning valve, a rotatable threadpiece carried by the said bonnet and mounted to abut said thermostat, a rotatable and axially movable stem operatively connected with the said threadpiece to permit axial movement relative to the latter member, a valve closure portion on the said stem arranged to cooperate with said valve seat and thereby selectively interrupt liquid flow through said valve, the said threadpiece being non-rotatably mounted relative to an end portion of the said stem, the said valve closure portion and said threadpiece being independently movable upon predetermined actuation of the said stem in a plurality of directions.

2,657,861

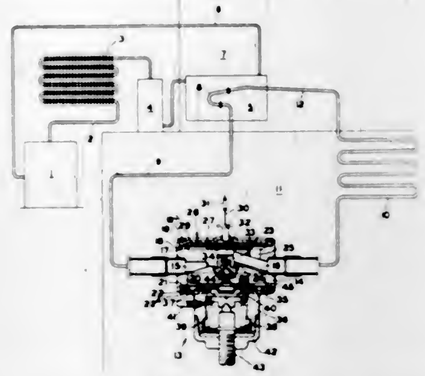
REFRIGERATION CONTROLLING VALVE

Earnest J. Dillman, Detroit, Mich., assignor to Detroit Controls Corporation, Detroit, Mich., a corporation of Michigan

Application November 13, 1948, Serial No. 59,920

7 Claims. (Cl. 236—92)

1. A refrigeration controlling valve comprising a valve casing having an inlet and an outlet, an inlet pressure chamber communicable with said inlet, an outlet pressure chamber communicable with said outlet, a passageway connecting said inlet pressure chamber to said outlet and defining a valve port at the end opening into said inlet pressure chamber, a movable valve member cooperable with said valve port to control flow of refrigerant through said valve, a flexible diaphragm closing said outlet pressure chamber and operable to respond to pressure in said outlet, a dish-shaped member secured over said diaphragm and defining therewith a power element pressure chamber, a conduit opening into said power element chamber and having connected at its other end a bulb element containing a thermostatic fluid, a thrust member interconnecting said diaphragm and said valve member and operable to transmit movement therebetween, a second diaphragm closing said inlet pressure chamber and operable to respond to pressure therein, a second thrust member interconnecting said second diaphragm and said valve member and alined with and in opposed position to said first-named thrust member, a hollow member hermetically secured adjacent



said second diaphragm and defining therewith a fourth pressure chamber, said first-named and second diaphragms being operable to balance the effect of refrigerant pressure on valve member operation, and said bulb element being operable to increase the pressure in said power element pressure chamber to move said valve member to open position upon rise in temperature, the temperature at which said valve member will be opened being determined by the pressure in said fourth pressure chamber.

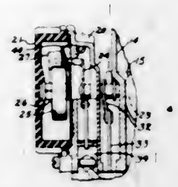
2,657,862

STABILIZER FOR OVERRUNNING THERMOSTATIC CONTROLS

Harold A. Carlson, Brentwood, and James T. W. Moseley, Richmond Heights, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application December 7, 1950, Serial No. 199,672

4 Claims. (Cl. 236—101)



2. A thermostatic control comprising a coiled thermostatic spring having an outer extremity rotatable under temperature changes, a device operable by said coil and having a one-way operating connection with said outer extremity thereof, said extremity being rotatable beyond said device after the limit of movement of said device, and a ramp member located in the path of movement of said extremity after separation from said device for frictional engagement by said extremity to stress and stabilize the same.

2,657,863

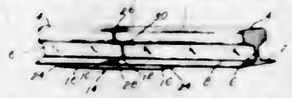
RAIL JOINT

Arthur Lee Barrett, Franklin, Pa.

Application April 21, 1949, Serial No. 88,709

7 Claims. (Cl. 238—164)

1. In a rail joint for two rails laid end-to-end, a support for the rails comprising a member wider than the bases and having a recess in each end the sides of which diverge outward in a direction away from the adjacent rail ends, the recesses being at their widest points substantially as wide as the rail bases, said member having



a region of maximum thickness at the adjacent rail ends and a gradually decreasing thickness throughout the entire cross-section from said region toward the ends of the member, and a pair of welds securing said member throughout its length to the rail bases.

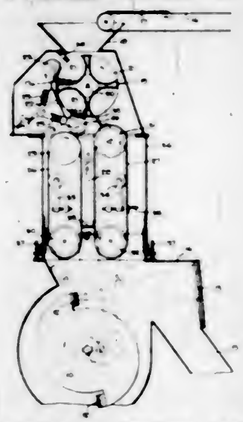
2,657,864

MEANS AND METHOD OF FEEDING TO IMPACT CRUSHERS

Herbert J. Woock, Alhambra, Calif.

Application January 16, 1950, Serial No. 138,861

6 Claims. (Cl. 241—5)



1. The method of feeding material to be crushed into a rotary impact crusher which consists of allowing the material to freely fall towards the crusher, then gathering the material into a bunch or cluster in the course of its fall, and then allowing the bunch or cluster to continue to fall toward the impact crusher.

2,657,865

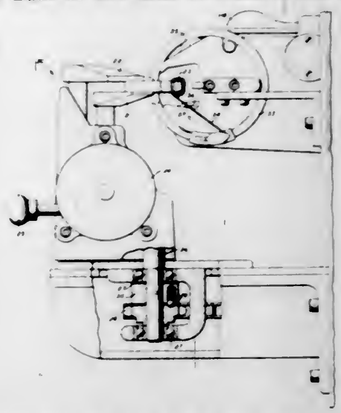
TOROIDAL COIL WINDING MACHINE

Malcolm O. Bennert, Methuen, and Henry E. Cradduck, Amesbury, Mass., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application January 4, 1950, Serial No. 136,696

16 Claims. (Cl. 242—4)

1. A toroidal coil winding machine comprising a chuck to support a toroidal core at a given position, a shuttle for a strand to be wound on the core, supported for movement in a circular path through the core, a rocking shaft having the chuck mounted thereon whereby the center of the core will be coincident with the axis of the shaft, a fluid operable unit to rock the shaft, and valves operated in a given sequence to control the flow of fluid to the unit to control the direction



of movement of the shaft with the chuck and core relative to the shuttle.

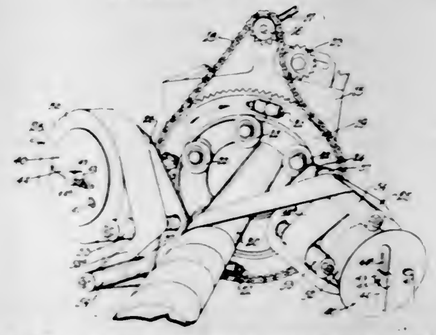
2,657,866

UNIFORM TENSION MAINTAINING DEVICE

Henry Lungstrom, Lindsborg, Kans.

Application July 26, 1949, Serial No. 106,888

6 Claims. (Cl. 242—11)



6. In an apparatus of the character described, a power-driven rotatable ring, a spindle, means to secure said spindle to one side of said ring with its axis positioned in any one of a plurality of angular positions in a plane at right angles to the plane of the ring, a reel unit mounted on the spindle for angular movements about the latter, means to secure said unit in any one of a plurality of angular positions about the spindle, said unit comprising a supporting plate and a reel that is rotatable on the spindle, coacting brake means for said reel carried on said spindle and on said reel, and brake control means including a part movably mounted on the plate, remote from the spindle, in position to engage and deflect a strip portion that is being unwound from the reel.

2,657,867

THREAD WINDING MACHINE, PARTICULARLY COP WINDING FRAME

Stefan Fürst, Munchen-Gladbach, Germany, assignor to Walter Reiners, Waldniel, Niederrhein, Germany

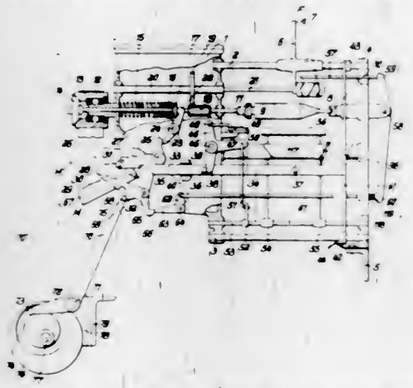
Application September 21, 1949, Serial No. 117,006

Claims priority, application Germany April 16, 1949

10 Claims. (Cl. 242—35.5)

1. In a cop-winding frame for winding cops on suitable supports, in combination, a driving

spindle, a power source for said spindle, means associated with said spindle for supporting a cop in winding position, a supply of thread, means driven by said spindle for guiding the thread on said cop, means for disconnecting said spindle from its power source and arresting its movement, means for detaching and removing the wound cop from its winding position and from the winding place, means for conveying a cop support to be wound to the winding place to replace the wound cop and securing it in winding



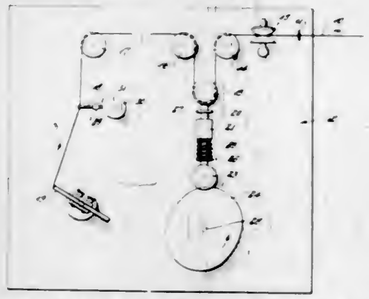
position, a controlling member for the winding and replacing operations, and means actuated upon the completion of the winding of a cop to impart a single forward and backward movement to said controlling member, said controlling member during said movement engaging sequentially the various said means in order to effect the removal of the wound cop together with its replacement by an unwound cop support and the resumption of winding on the unwound cop support.

2,657,868

THREAD WINDING APPARATUS

Francis B. Breazeale, Hendersonville, N. C., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware

Application January 18, 1951, Serial No. 206,693
10 Claims. (Cl. 242—45)



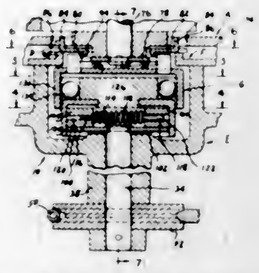
1. An apparatus for winding a thread at substantially constant tension that comprises a rotating collection device of non-uniform radius that imparts a cyclically irregular velocity to the thread passing thereto, a tensioning device in the thread path to the collection device, relatively movable guide means interposed in the thread path between said tensioning device and said collection device for storing therebetween a variable length of thread, and means unaffected by the tension of said thread for relatively moving said guide means to vary the length of thread stored by said guide means in synchronism with changes in the angular position of said collection device.

2,657,869

SECURING AND DRIVING MEANS FOR ROTATABLE MAGAZINE-CONTAINED SPOOL

Freeman H. Owens, New York, N. Y.

Application June 14, 1946, Serial No. 676,703
5 Claims. (Cl. 242—54)



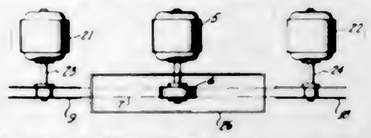
1. A magazine comprising a casing, a spool rotatably mounted therein, a disk mounted on the exterior of said casing and connected to said spool for rotation therewith by means of a shaft passing through a wall of said casing, said disk being provided with an opening, an annular plate mounted between said casing wall and said disc and surrounding said shaft, said casing wall having an opening in the outer surface thereof and said annular plate having a finger receivable in said opening so as to restrain said plate from movement in the direction of rotation of said disk, said finger being movable within said opening so as to permit said plate to move in a direction toward and away from said disk, resilient means active between said plate and said casing wall and effective to urge said plate toward said disk, and a downward projection on said plate engageable with the opening in said disk when said plate is urged toward said disk by the action of said spring and disengageable therefrom when said plate is moved toward said casing wall, as by engagement with an element outside said casing.

2,657,870

MOTOR DRIVE SYSTEM FOR MOTION-PICTURE EQUIPMENT

James L. Pettus, Encino, Calif., assignor to Radio Corporation of America, a corporation of Delaware

Application October 31, 1950, Serial No. 193,109
9 Claims. (Cl. 242—55)



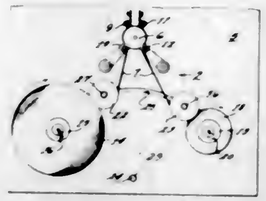
1. A plural film drive motor control system comprising a first motor, means for advancing a film with said motor, a pair of motors, means for winding said film with one of said motors, means for introducing tension in said film with the other of said pair of motors, means for partially energizing all of said motors simultaneously to tension said film at standstill, and means for normally energizing all of said motors simultaneously for advancing said film, said first motor advancing said film to said winding means and pulling said film against the tension introduced by said other of said pair of motors.

2,657,871

FILM REEL DRIVE MECHANISM

James L. Pettus, Encino, Calif., assignor to Radio Corporation of America, a corporation of Delaware

Application October 31, 1950, Serial No. 193,110
4 Claims. (Cl. 242—55)



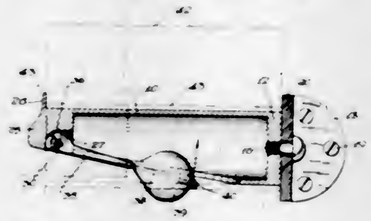
3. A power transfer system for film being supplied by one reel to a takeup reel comprising a free wheeling reel having film thereon, a second free wheeling reel having a few turns of said film thereon, and a roller bearing on one surface of the last turn of the film on each reel, and means for transferring the energy of said film being pulled from one reel to wind up the film on said second reel, said roller and energy transfer means including a pair of arms having one end of each arm pivoted on a common axis; a drive pulley for each of said rollers, each pulley being mounted on the other end of each of said arms, a pulley on said axis, drive means interconnecting all of said pulleys, and means for permitting movement of said arms and exerting pressure between said rollers and film as the diameters of the rolls of film on said reels vary.

2,657,872

TOILET TISSUE HOLDER

Elmer H. Lindenmeyer, Maywood, Ill.

Application January 2, 1952, Serial No. 264,419
8 Claims. (Cl. 242—55.2)



1. A holder for a tubular roll of paper comprising a member designed to be positioned horizontally as a core for the rotatable support of the roll, the member allowing access to the bottom of the internal wall of the roll, and means to control the rotation of the roll comprising an arm connected to the member and freely movable toward said bottom, and a roller journaled on the arm in frictional engagement with such bottom.

2,657,873

ROLL TYPE PAPER DISPENSING CABINET

Leslie A. Dittman, Corning, and Paul E. Dittman, Manhasset, N. Y.

Application January 15, 1952, Serial No. 266,548
5 Claims. (Cl. 242—55.5)

1. A device for holding a roll of flexible sheet material and for dispensing flexible sheet material therefrom which comprises a rotatably supported roller rod for axially supporting a roll of flexible sheet material, an elongated member having a slit-like opening therein through which flexible sheet is withdrawn from said roller rod, said elongated member being disposed with the slit-like opening in substantially parallel relationship with said roller rod, one edge of said opening being depressed inwardly toward said roller rod and a cutting edge being formed at the edge of said opening opposite said depressed



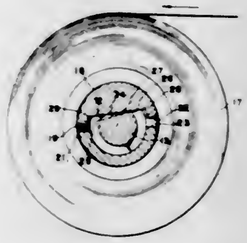
edge, an elongated spacer for the forward face of the roll of flexible sheet and said elongated member positioned adjacent said elongated member inside said cutting edge, and means adjusting the relative positions of said roller rod and said elongated member to engage the forward face of said roll of flexible sheet material in frictional contact with said spacer.

2,657,874

EXPANSIBLE AND CONTRACTIBLE REEL HOLDER

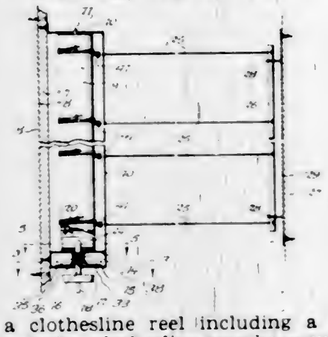
Earl Loine Taylor, Hanover County, Va.

Application December 18, 1951, Serial No. 262,274
12 Claims. (Cl. 242—72)



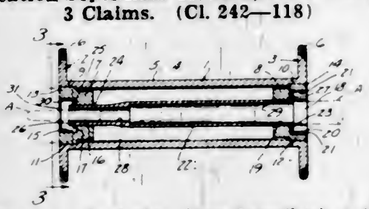
1. An expansible and contractible reel holder for establishing a positive disengageable connection between a reel and a supporting shaft comprising a reel supporting casing, bearing means rotatably mounting the casing on the shaft, the casing having a flange for limiting longitudinal movement of the reel in one direction on the casing, the casing including a movable segment, means pivotally mounting the segment with respect to the casing for swinging movement from a contracted position to an expanded position projecting outwardly from the casing against the reel, a flat external surface on the shaft within the region of the segment, a flat internal surface on the segment in opposed relation with the flat external surface on the shaft, and a sharp fillet formed in the region of the point of contact between the casing and the flange adapted to contact the reel to prevent relative rotation between the casing and the reel upon relative rotation between the shaft and the casing before the segment is moved outwardly to secure the reel on the casing.

2,657,875
CLOTHESLINE REEL
Ralph J. Kingsley, Buffalo, N. Y.
Application June 21, 1951, Serial No. 232,795
2 Claims. (Cl. 242—101)



1. In a clothesline reel including a winding drum on which a clothesline may be wound and a base, that improvement which includes a supporting member secured to said base and extending outwardly therefrom in position to rotatably support one end of said drum, a pair of supporting members secured to said base and extending outwardly therefrom in spaced relation to the other end of said drum and spaced apart lengthwise of each other, a shaft rotatably mounted in said last mentioned supporting members, said drum having an axial bore in the end thereof adjacent to said shaft into which said shaft may extend, said drum also having a diametrical slot in said last mentioned end of said drum intersecting said bore, a plate secured to said shaft and extending radially with reference to the same and slidable lengthwise of said slot in said drum and forming a driving connection between said shaft and said drum, a ratchet mechanism including a stationary ratchet member, a latch secured to said shaft and movable into and out of engagement with said ratchet by movement of said shaft relatively to said drum, said ratchet member having teeth with which said latch cooperates to hold said shaft and drum from rotating in a direction to unwind said clothesline from said drum, a spring normally holding said latch in engagement with said ratchet, said latch being movable out of engagement with said ratchet when said shaft is moved toward said drum, to permit rotation of said drum for unwinding of a clothesline therefrom.

2,657,876
SPOOL
Frederick J. Bieber, Minneapolis, Minn., assignor to Acrometal Products, Inc., Minneapolis, Minn., a corporation of Minnesota
Application September 15, 1952, Serial No. 309,668
3 Claims. (Cl. 242—118)



1. In a spool of the class described, a tubular winding drum element having a radially outwardly projecting circumferential flange at each end thereof, a pair of axially aligned bushings one each within an opposite end portion of the drum element, said bushings having axially aligned outwardly opening central recesses concentric with said winding drum element and reduced aligned central apertures extending axially inwardly from the bottoms of the recesses which define stop shoulders inwardly spaced from the opposite ends of said drum element, a tubular bearing element axially slidable into and out of said apertures, means on one end of said bearing element and the adjacent bushing for locking said bearing element against rotation with respect to said bushings and engageable with one of said stop shoulders to limit axial movement of said bearing element in one direction, and releasable means on the other end of said tubular bearing element cooperating with the stop shoulder on the other of said bushings to lock said bearing element against axial movement in the opposite direction, said bearing element having an inner wall portion tapering toward one of its ends, whereby said spool may be mounted on a tapered driving spindle for common rotation therewith.

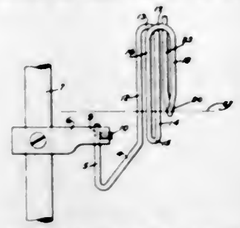
2,657,877
THREAD TENSIONING ATTACHMENT FOR FLY TYING VISES
Perry E. Allen, Durango, Colo.
Application July 24, 1950, Serial No. 175,557
1 Claim. (Cl. 242—149)



A thread tensioning device for fly tying vises comprising in combination, a fly holding member, a tubular arm having a hollow upstanding forked upper end, a spool support on one of the forked ends adapted for rotatably supporting a spool of thread, a brake pin in said one forked end adapted for turning crosswise against the forked end to frictionally engage the hub of the spool, tensioning means internally of said one forked end for the brake pin, a guide in the other forked end of the tubular arm for the thread payed out from the spool, and gravity actuated means in the arm connected to the guide.

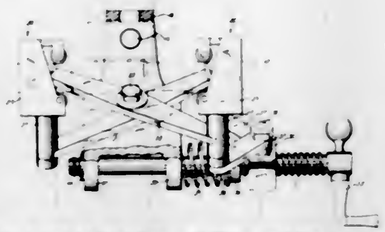
2,657,878
COMBINED YARN-GUIDE AND TENSION DEVICE
Pasquale Fiorino, Norwood, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application January 23, 1952, Serial No. 267,757
2 Claims. (Cl. 242—153)

2. A combined yarn tensioning and guiding device constructed from a length of wire having a shank portion for mounting it, said shank portion extending upwardly in a vertical bar and formed into a loop at the top to extend downwardly in a second bar and then looped at the bottom to extend upwardly in a third bar intermediate the first-mentioned bars, said last-named bar being bent into a loop at the top to extend downwardly and formed into a substantially circular eye at the bottom and extended upwardly to terminate above the loops on the first-mentioned bars, said guide-eye having portions of the wire crossing each other in spaced relationship to provide a narrow entrance opening therebetween and the opposite looped portions of the bars being inclined outwardly at the top to provide a crotch-



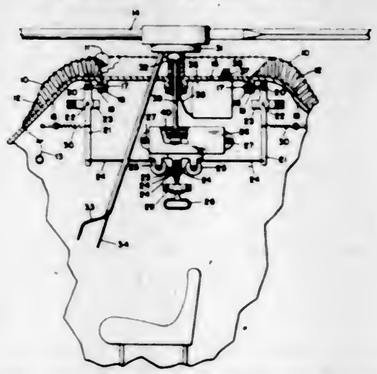
like re-entrant opening for guiding the yarn down into the eye and across the parallel tension-bars.

2,657,879
CABLE GUIDING APPARATUS
Harold S. Pike, Fanwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 12, 1952, Serial No. 266,212
10 Claims. (Cl. 242—157)



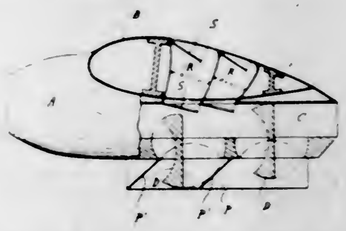
1. An apparatus for guiding cables of various sizes singly in a given path comprising rollers disposed at angles with respect to each other about the path, arms supporting the rollers in their respective positions, and means operatively connecting the arms actuable to move the arms whereby the rollers will be moved simultaneously like distances to engage and guide cables of various sizes singly along the given path.

2,657,880
PARACHUTE-EQUIPPED HELICOPTER
Clyde E. Bannister, Houston, Tex.
Application November 20, 1951, Serial No. 257,331
8 Claims. (Cl. 244—17.15)



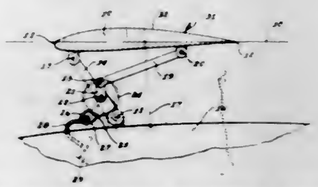
1. The combination of a helicopter and a parachute therefor, the helicopter comprising a vehicle body and a rotor positioned above said body and releasably mounted thereon, and means for releasably securing the parachute in packed condition on said body below said rotor, the combination including means for alternatively holding and freeing said rotor in relation to said body and means for thereafter releasing said parachute.

2,657,881
JET PROPULSION AND BOUNDARY LAYER CONTROL MEANS
Aubrey Douglas, Saltford, Somerset, England
Application August 19, 1947, Serial No. 769,404
Claims priority, application Great Britain April 17, 1947
4 Claims. (Cl. 244—40)



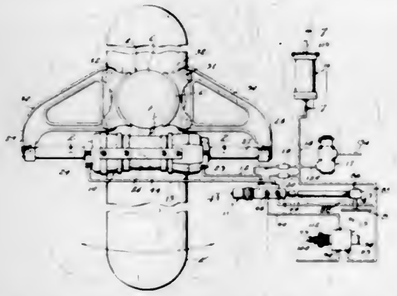
1. Means for controlling the thrust augmentation of a propelling jet of a jet propelled aircraft, comprising a jet propulsion unit having an exhaust duct, an aircraft wing having openings in its lifting surfaces, ducts for placing said openings in communication with the exhaust duct of the propulsion unit for tapping the boundary layer of air from said wing surfaces, adjustable flaps controlling the openings in the wing surfaces and non-return flaps in the ducts through the wing adapted to prevent the entry into said passages of hot gases or flame from the exhaust duct of the propulsion unit under conditions of blow-back or delayed combustion.

2,657,882
AIRFOIL SUPPORT STRUCTURE
John A. Perry, Phoenix, Ariz.
Application June 18, 1951, Serial No. 232,126
6 Claims. (Cl. 244—48)



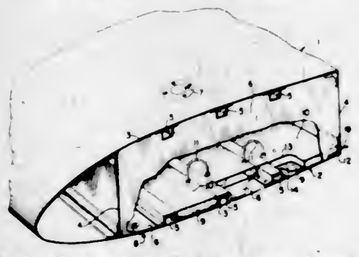
1. In an airfoil support structure, a fuselage, a supporting lever, a pivotal connection between said fuselage and one end of said supporting lever, an airfoil having a leading edge and a trailing edge, a pivotal connection located on said airfoil near the leading edge thereof connected to the other end of said supporting lever, a crankshaft having its main bearing axis journaled at an intermediate point on said supporting lever, a crankpin on said crankshaft, a link, a pivotal connection located on said airfoil toward the trailing edge thereof and connected to one end of said link, means for pivotally connecting the other end of said link to said crankpin, and means for rotating said crankshaft.

2,657,883
NOSE WHEEL STEERING SYSTEM FOR AIRCRAFT
Harry P. Kupiec, Paramus, and Everett G. Gravenhorst, Hasbrouck Heights, N. J., assignors to Air Associates, Inc., Teterboro, N. J., a corporation of New Jersey
Application June 21, 1951, Serial No. 232,838
7 Claims. (Cl. 244—50)



1. In an hydraulic system for turning the guiding wheel of an aircraft for turning the aircraft when traveling on land, an upwardly extending column including an upper portion affixed to the aircraft and a lower portion supported by the upper portion for turning movement and on which the guiding wheel is mounted, a pressure responsive device including a reciprocatory cylinder, a rod affixed to the upper portion of said column and having a head, said cylinder being mounted on said rod for reciprocatory movement thereon and with the head located within the cylinder, a link pivotally connected to said cylinder and pivotally connected to the lower portion of said column for turning the same with the movement of the cylinder, a valve in said system connected with a high pressure supply conduit and a low pressure return conduit and with two service conduits extending from said valve to and opening into the ends of the cylinder, a plunger mounted for reciprocatory movement in said valve, a steering member, and means operatively connecting said steering member to said plunger for moving the plunger to thereby open said valve for the flow of hydraulic fluid from the valve into one end of the cylinder and the flow of hydraulic fluid from the other end of the cylinder through said valve for imparting movement to the cylinder.

2,657,884
FUEL CELL
James A. Merrill, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application November 9, 1950, Serial No. 194,871
10 Claims. (Cl. 244—135)



1. A fuel cell for installation in a chamber in an airplane which is enclosed by rigid walls including stiffeners, said fuel cell comprising liquid-tight enclosure walls of a flexible sheet material which conform exactly to the internal outlines of the chamber, said flexible walls having depressions formed therein and defined by the stiffeners and enclosure walls of the chamber; an outlet in the cell; and a plurality of inflatable members disposed internally of the cell and confined in said depressions formed in the cell, said members operating upon inflation to fill these depressions substantially completely, preventing pocketing of the liquid and insuring complete drainage of the cell through the outlet.

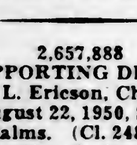
2,657,885
SHOCK REDUCING PARACHUTE
James M. Brady, West Long Branch, N. J., assignor to the United States of America as represented by the Secretary of the Army
Application December 3, 1951, Serial No. 259,685
5 Claims. (Cl. 244—145)
(Granted under Title 35, U. S. Code (1952), sec. 266)



3. In a parachute for reducing opening shock upon the load connected thereto, a balloon shaped envelope having a ring shaped opening at one end thereof for receiving air therethrough as said parachute falls through space, a slow release device, a first set of shroud lines one end of which is connected about said opening and the other end of which is connected to said slow release device, a reinforced circumferential band about the midsection of said balloon, a second set of shrouds one end of which is connected to said reinforced band and the other end of which is connected to said load, and a load line connected at one end to said load and fastened within said slow release device at the other end for release therefrom as said parachute falls to earth so that said load is gradually applied to said second set of shroud lines during said fall and said envelope forms a canopy over said load.

2,657,886
SWITCH POINT PROTECTOR
Joseph Robinson, New York, N. Y.
Application October 11, 1949, Serial No. 120,792
5 Claims. (Cl. 246—441)

1. A switch point protector comprising in combination, a switch blade having a relatively thin forward point, a railroad rail against which said blade is adapted to engage, a holder secured to said rail in front of said blade and engaging the flange of said rail, said holder comprising a pair of vertically arranged laterally spaced walls, said walls being relatively movable, a device removably mounted on said holder to divert the impact of car wheel from the thin forward point of said blade, said device having a part which extends into the opening between said walls, and means for simultaneously clamping said walls together



against said part and said part against the rail head to removably retain said device in position on said holder and to anchor said holder to said rail.

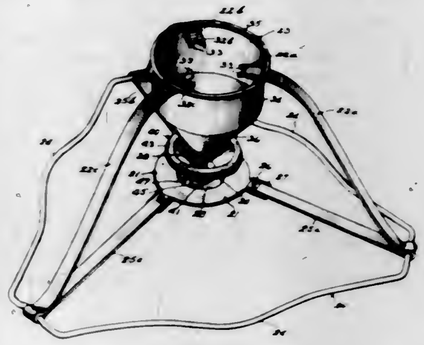
2,657,887
PICTURE HANGER
Halbert Lynn White, Kansas City, Mo.
Application January 17, 1949, Serial No. 71,277
2 Claims. (Cl. 248—31)



1. For a picture, a hanger comprising an elongated, horizontal member adapted for attachment to the back of the picture; a pair of plate-like sections, one of the sections being elongated, longitudinally arched, presenting a rearmost concave face and a forwardmost convex face, and having a central portion provided with a vertical slot and a pair of integral, oppositely extending arms projecting upwardly and outwardly from the central portion; a forwardly-extending hook on the outermost free end of each arm respectively, said hooks converging as the arms are approached and each being provided with an upwardly opening, V-shaped notch receiving said member, the other section having an opening for receiving a rearwardly-extending fastening element; and horizontal screw means in said slot attached to the other section and slidably and rotatably interconnecting the sections, the other section having a forwardmost vertical face engaging the central portion of the one section on the rearmost concave face of the latter, said other section having a pair of rearwardly-extending flanges, one of the flanges having a plurality of wall-piercing ears thereon.

2,657,888
SUPPORTING DEVICE
Harold L. Ericson, Chicago, Ill.
Application August 22, 1950, Serial No. 180,860
6 Claims. (Cl. 248—47)

1. A tree-supporting device comprising a horizontal base, a horizontal apertured guide plate mounted on said base and vertically spaced therefrom, a tree trunk-receiving cup-like member vertically disposed with respect to said plate and adapted to assume various positions of angular adjustment with respect thereto, said member having a downwardly extending threaded stud which projects through said apertured plate, trunk-gripping jaws resiliently mounted on said base and extending upwardly therefrom into supporting engagement with said member, and means cooperating with said stud and plate for actuating said jaws into and out of gripping relation and effecting locking and unlocking of said member in one of said positions of angular adjustment; said means comprising an adjusting element threadably mounted on said stud and having a portion thereof disposed beneath said plate, said portion having a bearing shoulder formed thereon, and a slider piece engaging said



element and resting on said bearing shoulder, said piece adapted to assume a relatively fixed abutting relation with the underside of said plate upon threading of said element onto said stud.

2,657,889
SECONDARY RACK
Burton M. Smalley, Chicago, Ill., assignor to Joslyn Mfg. and Supply Co., Chicago, Ill., a corporation of Illinois
Application May 21, 1949, Serial No. 94,589
1 Claim. (Cl. 248—67.7)

A secondary rack assembly comprising an integral elongated U-shaped member having the legs at the ends of the intermediate body arched outwardly for rigidity and providing end mounting arms, the intermediate body being similarly arched for rigidity and having longitudinally extending lateral mounting flanges for seating throughout their lengths against a supporting pole and spacing the arched portion outwardly therefrom, the ends of the intermediate body immediately within and adjacent said mounting arms having attachment means for attaching the entire rack assembly to a supporting pole, an intermediate second elongated U-shaped member slightly shorter in length than said first member with the ends thereof disposed within and adjacent said attachment means and similarly arched to externally nest on the intermediate body of said first member for rigidifying substantially the entire intermediate body of said first member between said attachment means whereby to resist bowing thereof under stress in the unsecured portion between said attach-

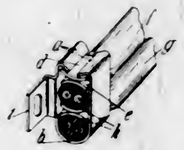
ment means, said second elongated member having the legs at the ends thereof providing mounting arms each cooperating with an adjacent mounting arm on said first member for supporting an insulator therebetween, a third U-shaped member having an arched body shorter than said intermediate U-shaped member and externally nesting on the arched central portion of said intermediate member to provide maximum thickness and strength at the center of the rack assembly to resist bowing in the unsecured portion between said attachment means, the arms of said third U-shaped member adapted to receive an insulator therebetween and being apertured in alignment with apertures in the other mounting arms for receiving an insulator mounting stud, and means for securing together the nested arched portions of said members along the extent thereof between said attachment means.

2,657,890

ANCHORING DEVICE FOR INSULATED FLEXIBLE ELECTRIC CABLES

John Stuart Atkins, Redditch, England, assignor to Alkaline Batteries Limited, Redditch, England, a British company

Application July 30, 1951, Serial No. 239,255
Claims priority, application Great Britain August 10, 1950
6 Claims. (Cl. 248—74)



1. Anchoring means for insulated flexible electric cables including a first member comprising spaced legs and a bight portion connecting the same, inturned facing flanges on the ends of the legs, the legs being bendable toward one another and having a length in excess of the diameter of at least one cable to be anchored, the bight portion connecting the legs having an extent sufficient to accommodate a cable in a position between the legs and in contact with the bight portion, and a pressure applying member comprising a curved bendable sheet metal member having a length approximately that of the width of the legs and disposed between a cable to be anchored and the flanges with its convex side adjacent the cable and its opposite ends disposed beneath the flanges on the legs and engageable there beneath whereby bending of the legs toward one another bends the sheet metal member to increased curvature so that the central portion of the sheet metal member applies pressure on the cable in a direction transverse to the cable axis and transverse with respect to the movement of the legs toward one another.

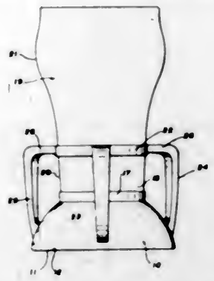
2,657,891

COMBINATION DRINKING GLASS AND DISH HOLDER

Lester W. Van Haften and George D. Hanby, Chicago, Ill., assignors to Walgreen Co., Chicago, Ill., a corporation of Illinois

Application January 5, 1946, Serial No. 639,441
3 Claims. (Cl. 248—146)

1. A receptacle holder comprising a body member having aligned oppositely extending openings for alternate use as a receptacle and supporting base, said openings being variously sized to accommodate a dish base in the larger one and a drinking glass base in the smaller one, handle arms extending from said body member and beyond



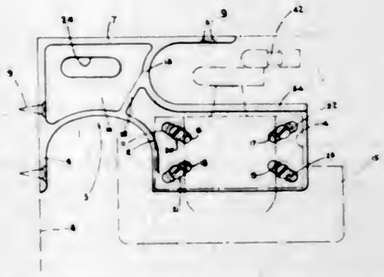
said smaller opening therein, and a ring member supported by said arms in axial alignment with the smaller opening in said body member to cooperate therewith in supporting a drinking glass therebetween.

2,657,892

MOUNTING DEVICE FOR DOOR CLOSERS

Kenneth C. Hoernel, Racine, Wis.

Application April 20, 1948, Serial No. 22,050
7 Claims. (Cl. 248—200)



1. In a device of the class described a door frame engaging flange portion having means for permanent attachment to a door frame, a connecting web portion forming a supporting arm, extending from said flange portion, and a closer attaching pad carried by said connecting web portion, said pad providing opposed laterally spaced pairs of slotted attaching fastening receiving holes, the holes of each pair being inclined inwardly toward each other from the outer margins of said pad at greater angles than the diagonals of the rectangle defined by the outer margins of said holes each pair of holes extending toward a point of intersection spaced in the direction of said pair of holes from such point of intersection of the other holes for receiving fastenings from any one of a variety of sizes and styles of door closers.

2,657,893

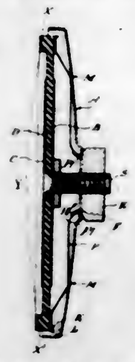
PNEUMATIC SUCTION DEVICE

Esca William Puckert, Worthing, England

Application April 9, 1951, Serial No. 220,049
5 Claims. (Cl. 248—206)

1. The combination with a casing, a diaphragm of resilient material therein, by which the casing is caused to adhere by suction to an attaching surface, and a control member for producing

displacement of the diaphragm, of an element formed of flexible material having direct contact



with said casing and with the diaphragm around its perimeter.

2,657,894

DRIVE FASTENER SUPPORT

Lester J. Sklenar, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois

Application February 25, 1950, Serial No. 146,295
9 Claims. (Cl. 248—239)



1. A work supporting fastener comprising a centrally apertured laterally yieldable shank, and a head portion at one extremity thereof, said head portion including a flange extending radially outwardly from the base of said shank and a work supporting section extending in an axial direction from said flange, said work supporting section having an axially extending compartment, and elongated means normally housed within and spaced from the inner wall of said compartment and thereby protected against transverse forces tending to displace said elongated means, said elongated means being adapted to be driven axially from within said compartment into said shank aperture for expanding said shank into fastener securing position, said shank, said head portion, and said elongated means being formed integrally with one another.

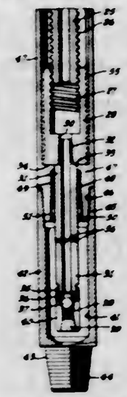
2,657,895

FLUID SHUT-IN VALVE

Clyde L. Huber, Houston, Tex., and Harry C. Skipper, Montrose, Calif., assignors, by mesne assignments, to Johnston Testers, Inc., Houston, Tex., a corporation of Delaware

Application November 14, 1949, Serial No. 127,095
5 Claims. (Cl. 251—8)

1. A shut-in valve structure comprising an outer tubular housing, a first tubular mandrel slidably disposed within the housing, a tubular sub on the mandrel for connecting said mandrel to a string of drill pipe, a keyway formed in the housing, a key on said mandrel disposed in said keyway when the mandrel is in an up position to prevent rotation between the mandrel and the housing and enable driving through the connection and movable out of the keyway when the mandrel is lowered relative to the housing to allow relative rotation between the mandrel and the housing, compression spring means surrounding the mandrel and disposed between the sub and the housing for urging said mandrel and the housing to remain in locked relationship, packing means supported by and within the housing, said housing having an enlarged bore formed therein below the location of the packing means, a second tubular mandrel slidably disposed within the housing and sealingly engaging the pack-



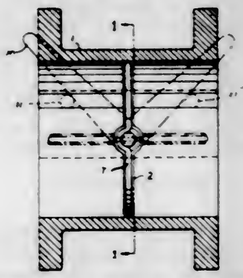
ing means and having a portion extending into the enlarged bore of the housing, the last mentioned portion of the second mandrel having a port formed therein, and means slidably but nonrotatably engaging the housing threadedly connecting the mandrels together operable upon disengagement of the key and keyway and subsequent rotation of the first mandrel relative to the housing to withdraw the ported portion of the second mandrel from within the enlarged bore of the housing and position the same within the confines of the packing means to close off the port and shut in pressure below the housing.

2,657,896

BUTTERFLY VALVE ASSEMBLY WITH CONTINUOUS ANNULAR SEALING MEANS

Frank G. Muller, La Porte, Tex.

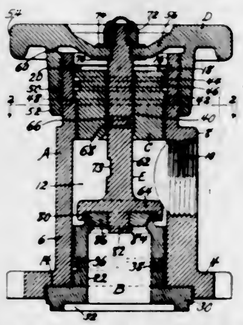
Application July 6, 1948, Serial No. 37,185
1 Claim. (Cl. 251—11)



A valve assembly comprising, a casing having a passageway for fluid therethrough and also having stem bearings, a disc-shaped valve in the casing movable to one position to close said passageway and to another position to open the passageway, said valve being formed with oppositely disposed hubs, a stem in said bearings to which the valve is secured, the outer ends of said hubs each having a circular socket around the stem, a filler block in each socket, said valve having a

continuous peripheral groove formed with arcuate portions extending through said filler blocks on one side of the stem, said filler blocks presenting flush faces on the other side of the stem which fit closely against the inner wall of the housing, and a continuous annular seal ring fitted into the groove of said valve and filler blocks and forming a continuous seal with the housing all the way around the valve when the valve is closed.

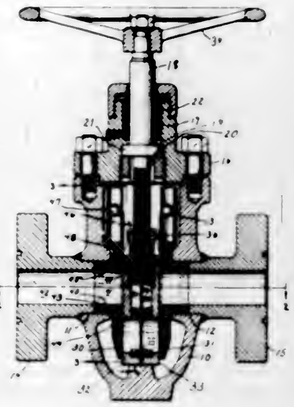
2,657,897
VALVE WITH RESILIENT PRESSURE ACTUATED SEAL
Clyde H. Folmsbee, Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application July 30, 1947, Serial No. 764,662
4 Claims. (Cl. 251—27)



1. In a valve, a valve body having intersecting passages therethrough for the flow of matter under pressure, a body seat member in one of said passages and formed with a body valve seat, an upstanding lip formed on said body seat member outwardly of the valve seat, a valve stem member in one of said passages, a depending lip on said valve stem overlapping and spaced from said upstanding lip to define a predetermined clearance space therebetween, a groove formed in said depending lip and having its lower edge extending below the upper edge of said upstanding lip when said valve is closed, an annular resilient member of substantially circular cross-section located in said groove and having its inner lower surface lightly compressed against the upper and outer edge of said upstanding lip, and means fastened to said valve stem member to retain said annular member in said groove, said means engaging said body valve seat to limit the approach of said valve stem member toward said body seat member when said valve is closed whereby said annular member cannot be compressed beyond a predetermined minimum.

2,657,898
SMOOTH OPENING AUTOMATIC LUBRICATED GATE VALVE
Alexander S. Volpin, Houston, Tex.
Application July 31, 1950, Serial No. 176,831
5 Claims. (Cl. 251—63.5)

1. A gate valve including a housing having opposed upstream and downstream flow ports and a valve chamber arranged transversely between said ports, a reciprocable gate in said chamber, an independent lubrication system for each port including a reservoir in said housing, means to inject sealing material into each system independent of the other, a movable barrier in each of said reservoirs, each of said systems including a groove arrangement in the housing consisting of a complete circuit surrounding a flow port, each said circuit having means providing a sealing material connection to its said reservoir solely when the valve is in closed po-



sition, said movable barrier being responsive to line pressure leaking into the chamber to urge sealing material into the downstream groove arrangement, said connection being disposed in said gate so that the opening movement of said gate disconnects said reservoir and circuit.

2,657,899
CYLINDRICAL VALVE BODY COMPRISING ONE OR MORE APERTURES PROVIDED IN THE WALL THEREOF
Jacob Willem Laurens Köhler and August Albert Liebe, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 17, 1949, Serial No. 133,548
Claims priority, application Netherlands December 31, 1948
7 Claims. (Cl. 251—122)

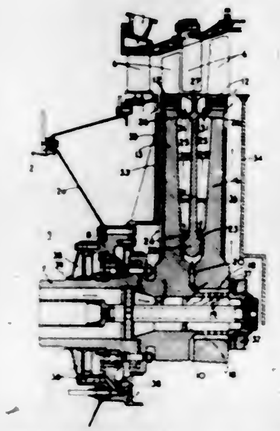


1. A valve body comprising a wall member, an aperture in said wall member, an elastic skin member having ends continuously in engagement with the said wall member and a strip between said ends normally closing said aperture, the longitudinal sides of said strip, taken in the direction of the wall axis, also engage the wall member with a small pressure, but are capable of being lifted from said wall when a pressure difference is established on the sides of the skin, the section of the strip at right angles to the longitudinal direction in the unstretched condition having a radius of curvature smaller than the radius of curvature of a section of the wall, the concave side of said strip section being adjacent said wall so that said strip and said wall enclose a space therebetween.

2,657,900
HYDROCARBON OIL CONTAINING S-(SULFURIZED TERPENE HYDROCARBON) DITHIOPHOSPHORIC ACID TRIESTERS
Edwin O. Hook, New Canaan, and Lindley C. Beegle, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 10, 1952, Serial No. 287,244
9 Claims. (Cl. 252—46.6)

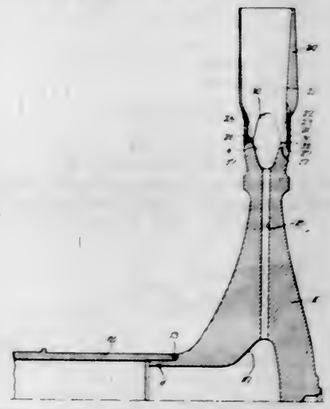
1. A hydrocarbon oil composition comprising a major amount of a hydrocarbon oil having dissolved therein a minor quantity, sufficient to inhibit oxidation of the oil, of an S-(sulfurized terpene hydrocarbon) O,O-dihydrocarbon dithiophosphoric acid triester.

2,657,901
CONSTRUCTION OF TURBINE ROTORS
Roderick Cristall McLeod, Leicester, England, assignor to Power Jets (Research & Development) Limited, London, England
Application June 4, 1946, Serial No. 674,229
Claims priority, application Great Britain June 8, 1945
7 Claims. (Cl. 253—39.15)



1. A multistage turbine rotor designed for overhung mounting, comprising a rotary bearer member, a first bladed rotor element of substantially disc-form fixed in both the axial and the radial sense on said rotary bearer member, a further coaxial and substantially disc-form bladed rotary element, a non-bladed substantially disc-form intermediate rotor element arranged between said bladed elements, said intermediate element having a peripheral portion on either side thereof in axial abutment with the bladed elements to permit relative sliding movement in a radial direction due to thermal expansion and contraction, and said intermediate and further rotor elements each having an axial bore, means providing between said intermediate element and both the bladed elements complementary interengagment by which alone said intermediate element and the further bladed element are mutually located and supported in the radial sense relatively to one another and upon the first bladed element, and tensioning means extending from said first element through said axial bores with radial clearance therein to retain said intermediate and further elements against axial displacement.

2,657,902
TURBINE ROTOR FOR TURBOJET ENGINES
Robert M. Williams, Toledo, Ohio, assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application December 17, 1947, Serial No. 792,194
1 Claim. (Cl. 253—39.15)



A turbine rotor for a turbo-jet engine, comprising a generally disc-shaped rotor body having a series of circumferentially spaced notches in its periphery with the notches opening at both faces of the body, a plurality of turbine blades having shank portions located in said notches, each shank portion having a width substantially equal to the thickness of the rotor body at said notches, welded joints cooperating between the shank portion and the rotor body along the lines of meeting of the shank portion with the faces of the rotor body, and shroud members located between the shank portions of the blades and constituting an extension of the rotor body, said shroud members being formed of a heat resistant metal, welded joints between said shroud members and the body at the lines of meeting of the shroud members with the faces of the rotor body and welded joints between said shroud members and the shank portions along the lines where the exterior surface of the side faces of the shroud members meet the shank portions.

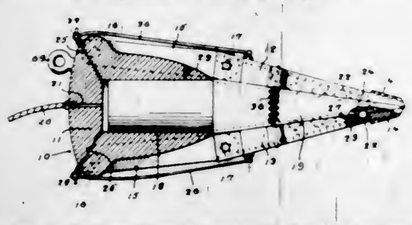
2,657,903
CLAW HAMMER WITH ADJUSTABLE LEVERAGE FULCRUM
Ray W. Johnson, Turlock, Calif., assignor to Le Tourneau, Inc., Longview, Tex.
Application May 12, 1950, Serial No. 161,629
3 Claims. (Cl. 254—26)



1. In a claw hammer having a head and a pair of claws, a fulcrum element including a bearing wall fitting over said hammer, a pair of side flanges fitting over the opposite sides of the ham-

mer, a pair of ears extended from each flange in a direction generally opposite the direction in which the claws extend and being pivoted on said head, a plurality of detents at the sides of said flanges nearer to said claws, and a releasable catch device on said hammer for selectively engaging said detents, the sides and top of said hammer underlying said fulcrum element being recessed, said fulcrum element fitting into said recessed top and sides to complement the contour of the hammer in inoperative position of said fulcrum element.

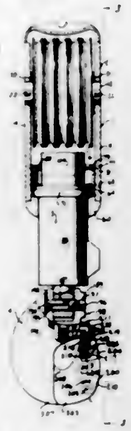
2,657,904
HYDRAULIC WEDGE
Christopher Brady Evenson, Cottage Grove, Oreg.
Application August 25, 1949, Serial No. 112,393
2 Claims. (Cl. 254—104)



2. In a hydraulically operated wedge unit, a cylinder, a pair of body members mounted for movement towards and away from each other, a plurality of bars pivotally connecting said body members to said cylinder, each of said body members being provided with a plurality of teeth on its front end, a piston reciprocably arranged in said cylinder, a wedge secured to the front of said piston and slidably positioned between said body members, conduit means for conveying hydraulic fluid from a source of supply to the interior of said cylinder, means for conveying hydraulic fluid from the interior of said cylinder to and between said wedge and body members for insuring proper lubrication therebetween, valve means for controlling the last named flow of hydraulic fluid, there being an overflow port in said cylinder, and resilient means for normally urging said body members towards each other.

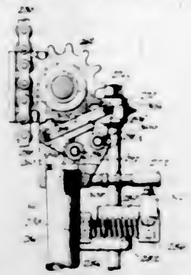
2,657,905
TRAVELING BLOCK
John D. Bennett, Beaumont, Tex., assignor to Dresser Equipment Company, Beaumont, Tex., a corporation of Ohio
Application June 6, 1951, Serial No. 230,221
15 Claims. (Cl. 254—192)

7. In a traveling block having a housing including opposed side plates and opposed end plates connecting said side plates, a bearing pin assembly mounted in said side plates and including a pin to extend therebetween and also including means connecting said pin assembly to said plates to prevent rotation and adapted to permit said pin assembly to expand axially in at least one direction, a plurality of sheaves, each including a roller bearing member to rotate about said pin, the radial faces of said bearings being hardened to rotatably bear end to end against each other in lateral thrust contact, a thrust washer about said shaft adjacent each side plate to space said sheaves from said side plate and to contact the outer faces of the end roller bearing members, a lower block section of substantially rectangular cross-section in the horizontal plane and having a vertical bore and counterbore centrally therethrough and providing opposed end faces and opposed side faces to fit within said plates and opposed ledges to abut the lower edges of said side plates, a spring housing extending through said bore and having a flange element to shoulder upon said counterbore, a pair of spaced apart bores through said side plates and said side faces and parallel to, and adjacent said end faces, a pin through each bore above said flange element to connect said block and said end plates and to confine said flange element, an annular groove in each pin, vertically extending locking pins in said block to fit in each groove to lock each pin against axial movement, said end plates including a lower hinged portion to permit the insertion and removal of said locking pins, and said block section having opposed ledges below said end faces to abut the lower edges of said hinged portion, the weight of a load supported by said spring housing being transferred from said flange element to said block section and from said block section, via said pins, to said side plates, said spring housing having an external flange element to shoulder upon said block and providing an upper internal shoulder and a bore through the base thereof providing a lower internal shoulder, a hook stem in said spring housing having a cap on the head thereof, a flange be-



low said cap, and a lower portion extending below said flange and through said spring housing bore for connection to a hook assembly, a spring retainer on said stem to bear upon said flange and adapted to rotatably bear upon said upper shoulder, a sleeve below said upper shoulder and internally splined to said flange and adapted to rotatably bear upon said lower shoulder, spring means between said cap and said spring retainer to normally urge said retainer against said flange and yieldable under a load on said hook assembly to transfer said load through said retainer to said upper shoulder as said hook stem and flange move downwardly within said internally splined sleeve, said sleeve having groove in the outer surface thereof, a locking mechanism including, a lock case adapted for connection to said spring housing and having a bore therethrough co-axial with said radial bore, set screw bores through said case perpendicular to said case bore, a lock assembly comprising, a shear pipe insertable in said case bore and radial bore and having holes through the wall thereof to align with said set screw bores, set screws insertable in said set screw bores and said hole to lock said pipe to said case, a piston cam insertable in said shear pipe, said shear pipe and said piston cam providing spaced apart shoulders and a spring surrounding said piston cam to bear on said shoulders, a hollow plunger insertable in said piston cam, opposed slots in said shear pipe wall and piston cam wall, opposed radial bores in said plunger wall, a plunger pin extending through said plunger bores and said slots, an inner spring in said piston cam to bear against said plunger pin, and a locking cam connected for rotation within said shear pipe and having a cam portion thereon in engagement with the cam of said piston cam and adapted upon rotation to move said plunger axially inwardly to engage in said sleeve groove to yieldably lock said spring housing and said sleeve and stem against rotation, said cam including indexed handle means to indicate locked or unlocked position to an observer.

2,657,906
EARTH DRILL
Dwight Richards, Harvey, Ill., assignor to The Buda Company, Harvey, Ill., a corporation of Illinois
Application September 18, 1947, Serial No. 774,755
3 Claims. (Cl. 255—22)



1. An earth drill of the class described, comprising a supporting frame, an axially movable auger spindle supported on said frame for feeding or raising an auger attached thereto, a motor supplying power for operating said drill, gearing connected to said motor, a chain connected to said spindle, a control member for releasably connecting said gearing to said chain to drive the latter and raise said spindle, a fluid operated piston, a sprocket carried by said piston engaging said chain, ratchet means engageable with said sprocket and adapted in one position to hold said sprocket against rotation in one direction relative to said chain and adapted in another position to hold said sprocket against rotation in the other direction, linking members connected between said control member and ratchet means operable to hold said sprocket against rotation in said one direction when said control member connects said chain and gearing and operable to hold said sprocket against rotation in said other direction when said control member releases said chain and gearing, and a hydraulic circuit for moving said piston to raise said spindle when said ratchet means is in said one position and for moving said piston to feed said spindle when said ratchet means is in said other position.

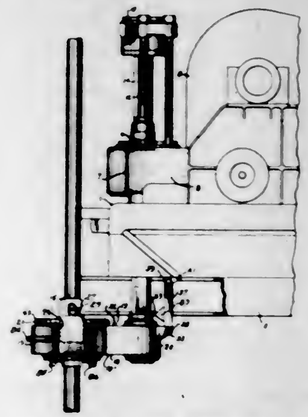
2,657,907
INSERT FOR DRILLING STRINGS
John F. Cochran and Jonathan I. Middleton, Long Beach, Calif., and Norman D. Jaques, Lafayette, La.
Application July 24, 1950, Serial No. 175,568
11 Claims. (Cl. 255—28)

8. An insert for use in a well drilling string having pipe sections and separable elements larger in diameter than the pipe sections, the insert being adapted to be applied between and to connect said elements that are larger than the pipe sections and including, an elongate steel body round in cross section and of substantially the same outside diameter as said elements and having a central longitudinal opening through it adapted to conduct fluid from one of said elements to the other, a plurality of circumferen-



tially spaced ribs of drillable material carried by the body and projecting radially therefrom, and shoes of wear resisting material on the outermost faces of the ribs adapted to resist wear as the insert is operated with the drilling string as a guide therefor and to be severed from the body by cutting of the ribs, the ribs being of such extent radially of the body as to facilitate operation of a wash-over and cutting tool to cut the ribs between the shoes and the body.

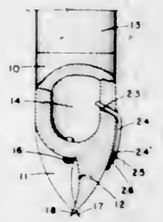
2,657,908
BREAKOUT TABLE
George E. Failing, Enid, Okla., assignor to The George E. Failing Supply Company, Enid, Okla., a corporation of Oklahoma
Application September 3, 1949, Serial No. 113,973
7 Claims. (Cl. 255—35)



1. In combination with a drilling rig having a portable frame, a drill head movable on the frame to and from drilling positions and having a drive rod and rotating means for the drive rod, a breakout table including a body member supported by said frame, a rotary member rotatable in said body member and having drill pipe grip-

ping means for effecting rotation of a drill pipe when gripped thereby, a driving member rotatable in the body member in registry with said drive rod when the drilling head is moved out of drilling position, a removable driving connection between the drive rod and the driving member, and a driving connection between the driving member and the rotary member.

2,657,909
WEAR INDICATOR
Walter J. Bielstein, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application March 11, 1949, Serial No. 80,834
3 Claims. (Cl. 255—61)



1. A drill bit comprising, in combination, a hollow body releasably connectible with a drill stem to a source of drilling fluid under pressure and provided with cutter blades having a cutting face, the body having at least one first duct for each blade connecting the interior of said body with the exterior of said body above said cutter blade and ahead of the cutting face of said blade, said body having at least one second duct fluidly connecting the interior of said body with the exterior of said body above a cutter blade and to the rear of the cutting face of said blade, a downwardly extending tube in fluid communication at its upper end with the outer terminus of said at least one second duct, the lower portion of said downwardly extending tube being substantially vertically extending, a plug adapted to fit slidably into the lower end of said tube in fluid-tight relation therewith and a rod member mechanically affixed at its lower end to one of said blades in the path of cutter blade wear and having its upper end abutting against said plug for normally maintaining said plug in fluid-tight relation within the lower end of said tube.

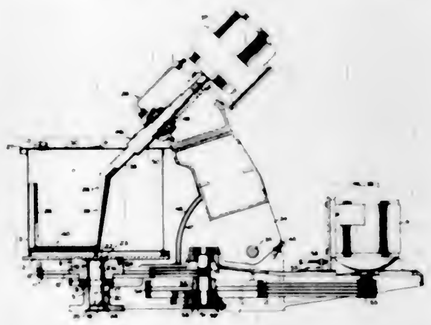
2,657,910
SOIL AUGER
Frank E. Fleming, Little Rock, Ark., assignor of fifty per cent to Thomas J. Eby, North Little Rock, Ark.
Application October 4, 1950, Serial No. 188,387
1 Claim. (Cl. 255—65)

In a soil sampling auger having a solid hub, a fixed and a movable auger blade carried by said hub, said blades having cutting teeth on their lower ends: an improved connection between said hub and blades including the hub having a lower end and being cut both along a diametrical plane through a longitudinal axis of said hub and a transverse plane to form a cut away portion and a depending portion, the portion which is removed being in the form of a block, said block being positioned in said cut away portion and secured to said depending portion by a single pivot pin, said fixed blade being secured to said depending portion and said movable blade being secured to said block, said



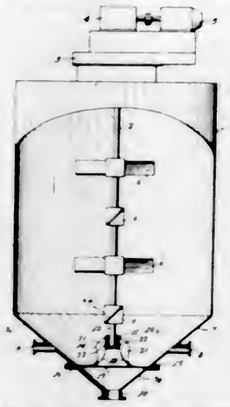
pivot pin extending through and connecting together both blades, said block, and said depending portion of said hub, and additional pins securing said movable blade and said fixed blade to said block and said depending portion, respectively, said additional pins being above said pivot pin and in alignment with each other when said blades are in operating position.

2,657,911
APPARATUS FOR MIXING FINELY DIVIDED SOLID PARTICLES AND LIQUID
Malcolm B. Nicholls, Cincinnati, Ohio, assignor to Troy Engine and Machine Company, Troy, Pa., a corporation of Pennsylvania
Application August 3, 1949, Serial No. 108,282
6 Claims. (Cl. 259—85)



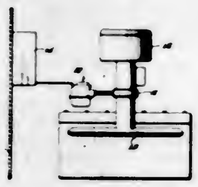
1. A mixing machine comprising a rotatable turntable on which a container is adapted to be rotated, power transmission means for rotating the turntable, a freely rotatable spindle mounted upon an adjustable support, an angular blade fixed to the end of the spindle in position to be moved in and out of the container by adjustment of the support, said blade having one portion disposed parallel to the sidewall of the container and slightly spaced therefrom and another portion disposed parallel to the bottom wall of the container and slightly spaced therefrom, both of said portions of the blade terminating below the surface level of a batch of materials to be mixed in the container, and a separate power transmission means for the spindle.

2,657,912
BEARING SUPPORT FOR VERTICAL AGITATING SHAFTS
Arno J. Liebman and Joseph W. Dorsey, Pittsburgh, Pa., assignors to Dravo Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 5, 1952, Serial No. 280,738
7 Claims. (Cl. 259—107)



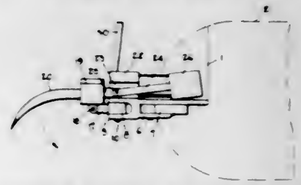
1. In fluid mixing and agitating apparatus having a container tank with a rotatable and vertically extending agitating shaft therein, a bearing housing for the lower end of said shaft, a mounting ring positioned concentrically of said housing and secured to the sides of said tank, and a plurality of metal mounting straps extending radially outwardly of said housing to mount the housing on said ring, each of said straps having a flat outer end lying in a plane normal to the axis of the shaft and connected with said ring, and its inner end having a connection with said housing, said inner end being twisted out of said plane a substantial angle to provide a substantially vertically extending edge at its connection with said housing.

2,657,913
SUPPLEMENTARY FEED DEVICE FOR INTERNAL-COMBUSTION ENGINES
Willard Raymor, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application August 6, 1948, Serial No. 42,915
8 Claims. (Cl. 261—18)



1. An auxiliary fluid feed device for the fuel intake of an internal combustion engine comprising a main housing body having a mounting flange on one side thereof, a support unit arranged to be inserted between the carburetor and the intake manifold of an engine and having a laterally projecting mounting boss, means connecting the mounting flange of said housing to said boss, said main housing having a web in the top thereof with an upstanding central boss and a boss depending from the bottom face thereof, aligned top and bottom bores extending through said bosses, said top bore having an enlarged diameter and providing a discharge chamber at the upper end of said bottom bore, an orifice at the upper end of said bottom bore at the entrance to said chamber, a block slidable in said top bore, a valve head on the lower end of said block for controlling flow of fluid through said orifice, a cup-shaped closure member secured to the bottom face of the housing body and defining a float chamber, an upstanding tubular fitting projecting into said bottom bore of said main housing and in communication with the float chamber, means for supplying fluid to said float chamber, a passage in said housing connecting said discharge chamber to the engine intake manifold, an air chamber in said housing vented to atmosphere, said slidable block having a valve-controlled central bore in communication with said air chamber, and means responsive to the vacuum in the intake manifold of the engine for actuating said block to move the valve head at the lower end thereof toward said orifice to reduce flow of auxiliary fluid to the engine and for opening said valve-controlled bore to permit increasing air flow to said discharge chamber, air flow through said valve-controlled bore being blocked when said valve head completely closes said orifice.

2,657,914
PRESSURE RIPPER
Lewis O. McMahon, Loveland, Colo.
Application January 15, 1951, Serial No. 206,112
1 Claim. (Cl. 262—8)

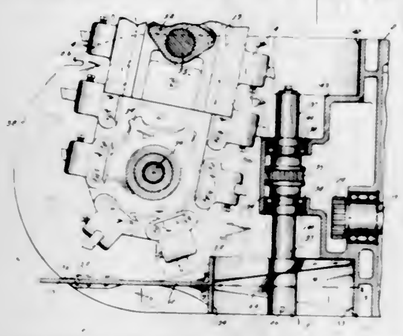


In a pressure ripper, a pivoted ripper bar, ripper teeth on the ripper bar, a pair of sheave units, one sheave unit being stationary, the other sheave unit being movably related to the stationary sheave unit, a connecting member between the ripper bar and the movable sheave unit, a cable operably connected to the sheave units, a power source for the cable, and spring means normally urging the ripper teeth out of ground engaging position, operation of said cable drawing the movable sheave unit toward the stationary sheave unit and rocking the pivoted ripper bar to ripper teeth ground engaging position, the stationary sheave unit including a guide for the connecting member between the ripper bar and the movable sheave unit.

2,657,915
REVERSIBLE LONGWALL MINING MACHINE
Leon E. Simmons, Claremont, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 16, 1948, Serial No. 54,895
11 Claims. (Cl. 262—30)

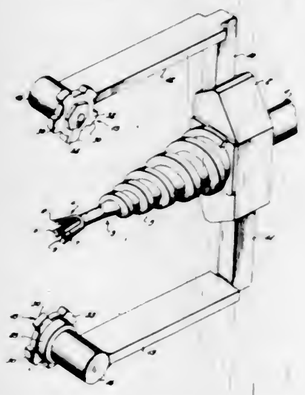
1. A reversible cuttings-removing mechanism adapted for use with a reversible coal cutting machine of the longwall type comprising a frame movable endwise along a longwall face and on the rearward portion of which a cutter bar is pivotally mounted for horizontal swinging movement into positions at either side of said frame depending upon the direction of operation of the machine, and about which bar an endless cutter chain is guided for orbital circulation,

said frame having a chamber for receiving the cuttings brought back from the kerf by the incoming run of the cutter chain and having coaxial bores one at each side of said frame between the advancing end of the latter and the bar pivot with said bores extending transversely of said frame at the leading side of said cutter chain in either bar position and communicating with said chamber, said cutter bar being swingable horizontally about its pivot into its reversed positions with respect to said frame at the opposite sides of the latter as aforesaid and



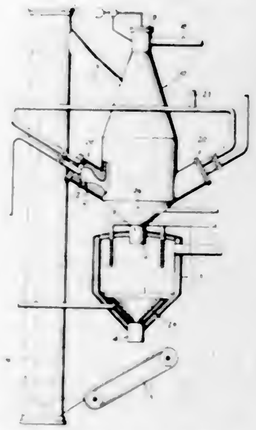
the incoming run of the cutter chain in either reversed position of said bar moving through the then-vacant bore at the inner face side of the frame, a transposable conveyor screw disposable in said bore at the outer side of said frame remote from the coal face for receiving the cuttings within said frame-chamber and for moving the cuttings laterally in said outer bore and for positively ejecting the cuttings from said bore at the outer side of said frame, and driving mechanism on said frame for rotating said conveyor screw in either of its transposed positions in said bores.

2,657,916
ROTARY CUTTER BIT
Gerald F. H. von Stroh, Huntington, W. Va., assignor to Bituminous Coal Research, Inc., Washington, D. C., a corporation of Delaware
Application December 26, 1950, Serial No. 202,607
9 Claims. (Cl. 262—33)



1. A cutting device having a forward cutting face for the mining of an ore or coal seam comprising a circular element, a shaft, said element being rotatably mounted on said shaft, means to drive said shaft forwardly, projecting spaced teeth on the periphery of said element, said teeth from front to rear thereof having sides disposed approximately parallel to each other and angularly to the center line axis of said shaft, whereby when said shaft is driven by said driving means said element cuts a spiral groove in said seam and is thereby caused to rotate.

2,657,917
METHOD OF HIGH-TEMPERATURE TREATMENT OF COMPOUNDS
Robert E. Stanton, Denver, Colo.
Application May 25, 1948, Serial No. 29,047
2 Claims. (Cl. 263—52)

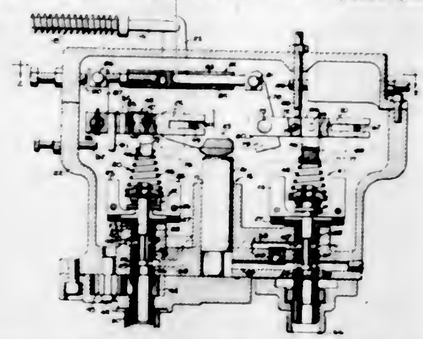


1. A method of heating chemical compounds to promote reactions therebetween comprising continuously introducing ceramic pebbles into the top of a reaction zone from a heating zone above it, and returning the pebbles from the bottom of the reaction zone to the top of the heating zone, introducing air and fuel into a combustion chamber outside said heating zone at a velocity such that only a minor portion of the fuel is burned in the combustion chamber to heat the remainder of the air and fuel, discharging said remainder of the fuel, the combustion products and the air from the combustion chamber at a velocity above flame propagation velocity into said heating zone, said heating zone being of greater size than said combustion zone wherein the velocity of the fuel, combustion products and air are decreased and the fuel is burned in the interstices and at the surfaces of said pebbles to heat said pebbles at flame temperature.

2,657,918
DUPLEX SPEED REGULATOR
George E. Parker, Rockford, Ill., assignor to Woodward Governor Company, Rockford, Ill., a corporation of Illinois
Application September 14, 1950, Serial No. 184,781
11 Claims. (Cl. 264—7)

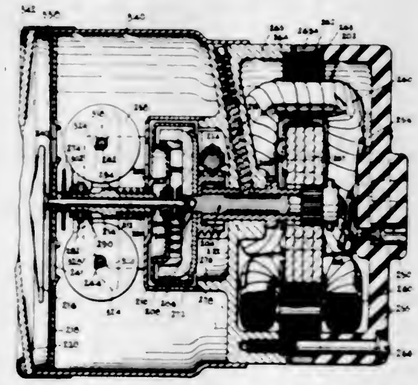
5. A duplex governor having, in combination, a fluid pressure servo, means providing a source of fluid under pressure first and second valves, a speed-sensing device actuating said first valve and driven from one source of rotary power, said device having a member selectively adjustable to vary the speed setting of the device, an independently driven speed sensing device for actuating said other valve having a selectively adjustable speed setting member, means by which the settings of said first and second members may be

changed successively to increase the speed settings of said first and second devices, and a fluid



passage extending from said fluid source to the servo and including in series relation said second valve and the first valve.

2,657,919
ELECTRIC SPEEDOMETER
William McCandless, Toledo, Ohio
Original application July 25, 1947, Serial No. 763,546, now Patent No. 2,523,993, dated September 26, 1950. Divided and this application March 25, 1949, Serial No. 83,327
10 Claims. (Cl. 264—13)

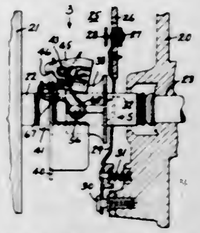


6. In a magnetic speedometer, a driven rotating means including a polarized magnetic means, an eddy-current means of non-magnetic material cooperating with the rotating means by an air gap to be rotatably influenced by the magnetic field of the magnetic means against a bias for return to zero position, a pointer shaft for rotatably mounting the eddy-current means concentrically with the rotating means, said shaft being in touching relation with the rotating means only at one end face, and spaced non-rotative bearing means for the pointer shaft on one side of the eddy-current means.

2,657,920
CENTRIFUGAL DEVICE
Walter D. Harrison, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 30, 1950, Serial No. 192,993
10 Claims. (Cl. 264—15)

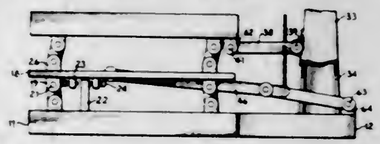
8. In a centrifugal switch, a lever member formed of a single length of music wire and comprising a yoke and arms, said arms being formed with loops intermediate its ends for receiving extensions of a movable member and with eyes at their free ends for pivotal connection with a pivot for the lever.

9. In a centrifugal device, a plate having an integral stop rotatable with a shaft; a cross member supported by the plate on one side of



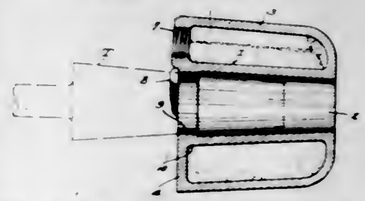
the shaft; a weighted member pivotally supported on the cross member, said weighted member having a portion provided with a notch straddling the stop, said notch presenting stop surfaces equally distant from the cross member, said stop surfaces adapted to engage the stop for limiting the angular movement of the weighted member in either direction.

2,657,921
WEIGHING DEVICE
Herbert L. MacBride, Fort Washington, Pa.
Application June 4, 1948, Serial No. 31,041
6 Claims. (Cl. 265—27)



3. A device of the class described comprising a load sustaining member, a load indicating mechanism, first toggle means under compression supporting said member, and further toggle means under tension connecting said first means with said mechanism, the extent of compression of said first means being initially equal to the extent of tension of said further means.

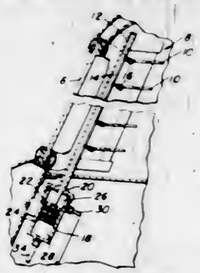
2,657,922
BLAST FURNACE MONKEY
J. B. Casey and Grady A. Smitherman, Woodward, Ala., assignors to Woodward Iron Company, Woodward, Ala., a corporation
Application March 28, 1951, Serial No. 218,022
1 Claim. (Cl. 266—41)



A blast furnace monkey comprising a hollow body having elongated spaced concentric walls of conical form, end walls carried by and extending between the concentric walls to define a chamber through which a cooling liquid may be circulated, the innermost concentric wall defining a passage which extends through the body

and which diminishes in diameter as it recedes from one end of the body, a partition carried by the concentric walls and extending radially therebetween, the end wall at the larger end of the body having a liquid inlet opening extending therethrough and opening into the chamber adjacent one side of the partition and a liquid outlet opening extending therethrough and opening into the chamber adjacent the opposite side of the partition, an annular inwardly extending flange integral with the body and extending into the passage adjacent the larger end thereof, and the inner edge of the flange defining a circular cylindrical surface having a width which slightly exceeds the thickness of the walls of the body and against which a plug is adapted to seat when the passage is closed.

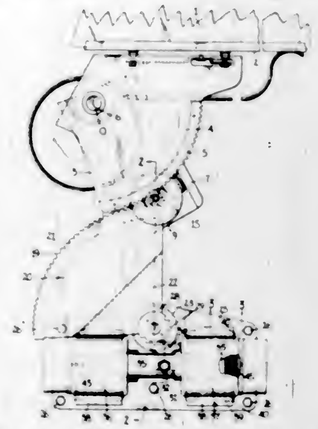
2,657,923
AUTOMOBILE VENETIAN BLIND AND CONTROL MEANS THEREFOR
Avery S. Coppage, San Antonio, Tex., assignor of one-third to John R. Andre, Galveston, Tex.
Application August 27, 1951, Serial No. 243,831
3 Claims. (Cl. 268—96)



3. In the structure of the class described, in combination, a pair of vertically disposed spaced end frames arranged in approximate opposed parallelism, a plurality of horizontally disposed cooperating louvers pivotally mounted between said end frames, a vertical cylinder fixedly supported on a plane below said end frames and louvers, said cylinder having its upper end screw-threaded, a head having screw threads screwed on the upper end, said head being centrally apertured, a tube attached at its lower end to the apertured portion of the head and rising from the head and occupying a vertical position midway between the end frames, said tube being slotted lengthwise, a piston reciprocable in said cylinder and dividing the latter into upper and lower chambers, said piston having a rod extending through the upper chamber and through the tube, means affording an operating connection between the rod and slotted portion of the tube and adjacent trailing edges of the louvers for opening and closing the louvers either wholly or partly as the piston and rod reciprocate up and down in said tube, a first pipe communicatively joined to the cylinder and cooperating with the upper chamber, and a second pipe joined axially to the lower end of the cylinder and communicating with the lower chamber in the cylinder.

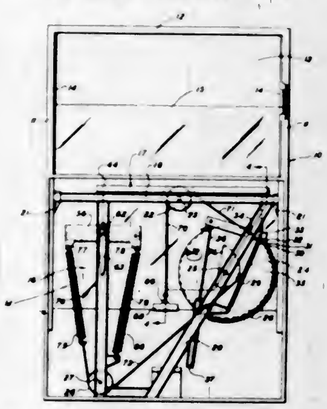
2,657,924
SOLENOID-OPERATED WINDOW REGULATOR
Leo S. Greenmun, Avoca, N. Y.
Application January 26, 1950, Serial No. 140,672
3 Claims. (Cl. 268—104)

1. In combination, a window mounted for opening and closing movement in a vertical plane, a rotatable toothed supporting member secured to said window in underlying relationship thereto, a pinion operatively engaging said toothed member, a pivotally mounted gear sector operatively engaging said pinion, a sector pinion secured to said gear sector for coaxial rotation therewith, a pair of solenoid coils mounted in



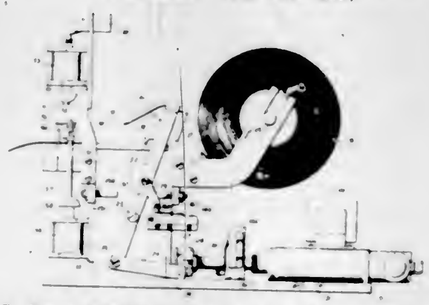
tandem adjacent said sector pinion, a common core operatively associated with both said coils for reciprocable movement, said core having a toothed portion engaging said sector pinion, and means for selectively energizing one or the other of said coils to effect movement of said core, whereby to cause selective rotation of said supporting member.

2,657,925
CLOSURE, OPERATING, AND CONTROLLING DEVICE
Rector Crow, Los Angeles, Calif.
Application March 27, 1946, Serial No. 657,494
8 Claims. (Cl. 268—122)



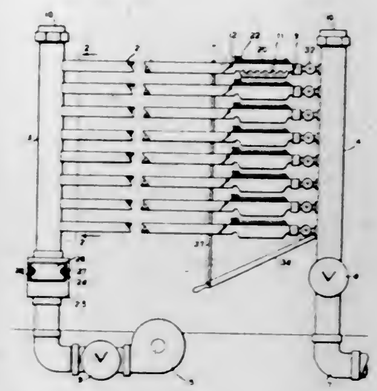
1. In an adjusting device for a movable member disposed so as to be moved in opposite directions, the combination of: means for incurring normally counterbalanced forces to hold said member stationary in all of its positions, at least one of said means comprising a spring means having a pair of spring sections joined by connecting means so that the force of one of said spring sections is transmitted to the other of said spring sections and a leverage mechanism whereby the varying force of said spring means is converted to a substantially constant counterbalancing force; means for restraining movement of said movable member in at least one of its directions of movement; an actuating member having, in response to motivating effect applied thereto, an initial movement and a succeeding movement; means operating in response to said initial movement of said actuating member to release said restraining means; and means connecting said actuating member and said connecting means operating in response to the succeeding movement of said actuating member for applying movement to said connecting means to change the force of said spring means and cause movement of said movable member.

2,657,926
TAPE DISPENSER
Theodore R. Price, Old Greenwich, and Raymond L. Brown, Noroton Heights, Conn., assignors to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application March 11, 1948, Serial No. 14,298
7 Claims. (Cl. 271—2.5)



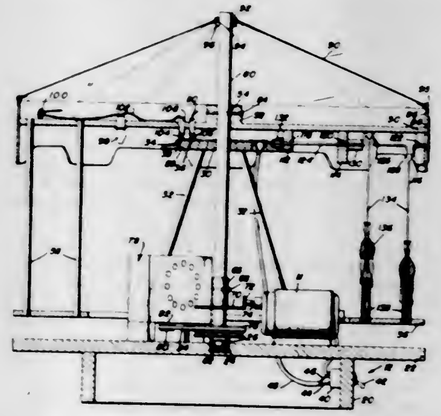
7. In a dispensing apparatus for pressure adhesive tape having an adhesive and a non-adhesive side, means for rotatably supporting a supply of tape, a supporting surface for receiving the non-adhesive side of the tape, tape advancing means resting on the adhesive side of the tape and adapted when moved in a forward direction to advance the tape across the supporting surface and when moved in a rearward direction to ride freely over the adhesive side of the tape, pneumatic means operative for reciprocating said tape advancing means through one cycle comprising a forward and a rearward direction of movement, a first electromagnetic means responsive upon energization for initiating the operation of said pneumatic means to advance said tape, switching means momentarily actuated for energizing said first electromagnetic means, a second electromagnetic means responsive upon energization for initiating the operation of said pneumatic means to retract said tape advancing means, switching means actuated by the terminal travel of said tape advancing means for energizing said second electromagnetic means, means including means for producing a difference in air pressure on opposite surfaces of the tape for holding the tape in close contiguity with said supporting surface, and additional means for holding the tape in advanced position and against retraction by the reciprocating tape advancing means, electromagnetic means self-biased upon energization for releasing said holding means, switching means operable at the commencement of said tape advancing step for energizing said self-biased electromagnetic means and operable at the completion of said tape advancing step for deenergizing said self-biased electromagnetic means.

2,657,927
FISH DISPLAY
Edgar B. Pease, Phoenix, Ariz.
Application March 31, 1950, Serial No. 153,115
5 Claims. (Cl. 272—4)



1. A fish display, including in combination, a plurality of parallel transparent display tubes; a vertical inlet header attached to one end of each of said tubes; a vertical outlet header at the other end of said tubes; means operatively connected with one of said headers for providing a flow of water at a predetermined velocity from said inlet header, through said display tubes, to said outlet header; a fish cage having a barrier gate at its inlet end, a waiting pool, a screen at its outlet end and an access door formed in each display tube adjacent its outlet end; a fish recovery trap, including a water tight box, an access door thereto, and a screen at its outer end, positioned in the lower inlet end of said inlet header; and lever means connected to said barrier gates for operating the barrier gates of the fish cages in said tubes in unison.

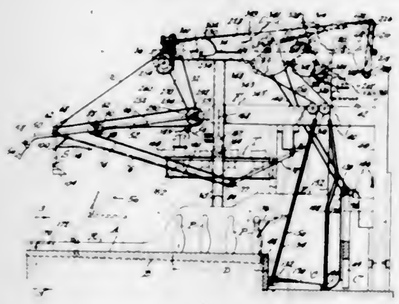
2,657,928
TOY MERRY-GO-ROUND
Lloyd L. McDonald, Shamrock, Tex.
Application May 28, 1951, Serial No. 228,608
2 Claims. (Cl. 272—31)



1. A toy merry-go-round comprising a supporting base, a standard rotatably mounted on

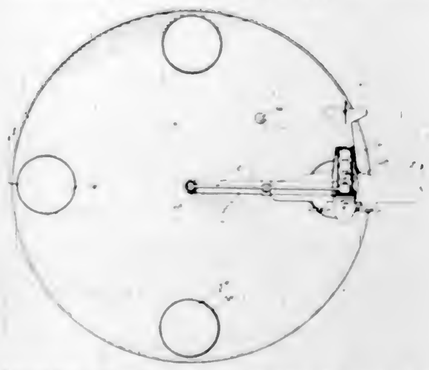
said supporting base and projecting vertically therefrom, an intermediate portion of said standard being rotatably journaled in a circular bearing plate spaced above said supporting base, said bearing plate being supported by downwardly and outwardly extending supports having lower ends secured to said supporting base, an enlarged disc carried by said standard above said bearing plate for rotation with the standard, motor means carried by said supporting base in driving engagement with said standard, a lower annular plate disposed adjacent said supporting base and suspended from said disc for rotation therewith, said bearing plate being provided with a toothed annular peripheral surface, bevelled gears engaged with said toothed surface, said bevelled gears being mounted on crank arms supported beneath said disc by depending bearing blocks, a plurality of rods extending between said crank arms and said lower plate, simulated animals mounted on said rods adapted to be vertically reciprocated by said crank arms electric lights carried by said disc with portions thereof projecting therethrough, a power source for said electric lights including concentric conductive rings carried by the upper surface of said bearing plate, contact fingers extending downwardly through said disc in engagement with said conductive rings, electrical energy being supplied to said conductive rings by conductors passing through said bearing plate and secured to the undersides of said conductive rings.

2,657,929
SWEEP AND GUARD MECHANISM FOR BOWLING PIN SETTING MACHINES
Samuel S. Auchincloss, Williamsville, and Henry W. Phillips, Kenmore, N. Y., assignors to American Machine and Foundry Company, a corporation of New Jersey
Application April 16, 1947, Serial No. 741,932
17 Claims. (Cl. 273—43)



1. In a bowling pin setting machine adapted to be positioned adjacent the pin spotting zone and the pit of a bowling alley, pin and ball handling mechanisms in said machine, a guard movable down and up to and from a position across said alley in front of said pin zone, mechanism for raising said guard, a detector mounted in front of and adjacent said pin spotting zone of said alley, mechanism operated by said detector as the result of the movement of a ball therepast and substantially simultaneously with the movement of said ball into said zone enroute to said pit for effecting the movement of said guard to guarding position adjacent said alley, and mechanism operable by said detector for actuating said pin and ball handling mechanisms of said pin setting machine subsequently to the movement of said guard to guarding position.

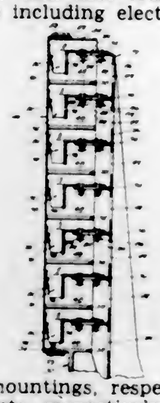
2,657,930
TOY BOMBER AND BOMB CARRIER AND RELEASE MECHANISM
John J. Reus, Smithtown, N. Y.
Application March 23, 1951, Serial No. 217,183
1 Claim. (Cl. 273—95)



A toy bombing game comprising a housing having a top wall, said top wall being formed with target openings, an upstanding tubular post rotatably disposed through the top wall, a prime mover in said housing rotating said post, a lateral support on the upper end of the post, a toy plane carried by the support, means in said plane for retaining projectiles in releasable aligned fashion, said plane having a discharge opening therein communicating with said means at one end thereof and a loading opening communicating with said means at the other end, a spring urged retaining member carried by the plane and disposed in transverse adjacency to the discharge opening, a release member slidably disposed in the plane and engageable with a projectile adjacent said one end of said means to force the projectile against the retaining member to release it and expel the projectile through the discharge opening for gravitation toward the top wall of the housing, means for actuating the release member, said last means including a lift rod slidably disposed in the post, an actuating member for said rod mounted in the housing, a link pivotally supported by the plane support adjacent the center thereof and pivoted to the upper end of the rod, said link supporting the release member, said actuating member including a lever, an ear projecting upwardly in the housing, and means pivoting the lever to the ear for vertical swinging movement, one end of the lever being disposed under the lower end of the rod for abutting engagement therewith and the opposing end of the lever projecting outwardly from the housing for manual depression.

2,657,931
TARGET BASEBALL GAME
Robert Burrell, West Haven, Conn.
Application March 29, 1951, Serial No. 218,231
2 Claims. (Cl. 273—102.2)

1. In a target baseball game, the combination of an upright target comprising a first upright frame provided with a plurality of laterally adjacent pockets having open front ends, respectively, and opening in the respective rear ends thereof, and a resilient sheet cover of animal skin of the drumhead type over the open front end of each pocket, said covers being marked with differential baseball plays and yielding under the impact of baseballs pitched thereagainst; another frame located behind and mounted independently of said first frame out of impact transmission from the latter, said other frame having mountings adjacent said openings in said pockets, respectively, of said first frame; and play-recording means including electric instrumentali-



ties on said mountings, respectively, extending into said pockets, respectively, into close proximity to said covers thereon, any of said instrumentalities being operated by the cover on the associated pocket when yielding under the impact of a pitched baseball to render said recording means operative.

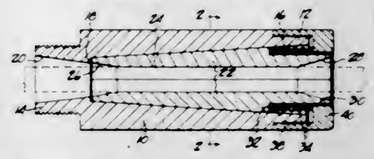
2,657,932
COMBINATION PHOTOGRAPHIC AND MAGNETIC SOUND RECORD AND METHOD FOR PRODUCING SAME
Dorothy L. Blaney, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application April 16, 1949, Serial No. 87,924
5 Claims. (Cl. 274—3)



1. The method of producing copies of a magnetic sound record in a magnetic medium in which variations in magnetism occur in a uniform layer of magnetic particles comprising applying a thin strip of material to said magnetic medium, depositing magnetic particles on said strip, distributing said particles on said strip of material in accordance with the intensity and distribution of the magnetism in said magnetic medium and magnetizing said particles on said strip of material in accordance with the intensity and distribution of the magnetism in said magnetic medium, and depositing a binder on said particles to retain them in said distributed positions on said strip.

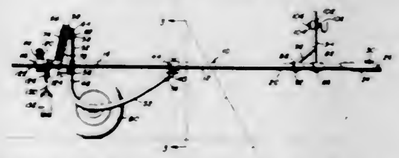
2. A combination motion picture film and sound record therefor comprising a motion picture film, a strip of transparent material attached to said film along the normal longitudinal position of the photographic sound track area, said transparent strip having magnetic particles distributed thereon in accordance with the amplitude and frequency of a sound record and magnetized in accordance with the amplitude and frequency of said sound record, said strip interfering with the passage of light therethrough at points where said particles have been deposited, and in an amount determined by the number of said particles along said strip.

2,657,933
STOCK PUSHER
Arthur Stuebner, La Porte, Ind.
Application March 29, 1951, Serial No. 218,178
2 Claims. (Cl. 279—28)



1. A stock pusher comprising a sleeve having a bore substantially uniformly tapered for the major portion of its length to a large diameter portion at its discharge end, a centrally apertured cap mounted on the discharge end of said sleeve, a frusto-conical unit having an axial bore substantially uniform for its major portion, said unit being formed from a plurality of substantially similar longitudinal parts, the exterior surface of said unit for a part of its length being defined by longitudinal tapered ribs adapted to engage said tapered sleeve bore and being reduced at its remaining part, the portions of said unit between said ribs being spaced from said bore, and a spring encircling said reduced part for normally urging said unit to the small diameter end of said bore.

2,657,934
BOAT TRAILER
Fred Linneman, Estelline, S. Dak.
Application August 16, 1951, Serial No. 242,084
7 Claims. (Cl. 280—33.4)

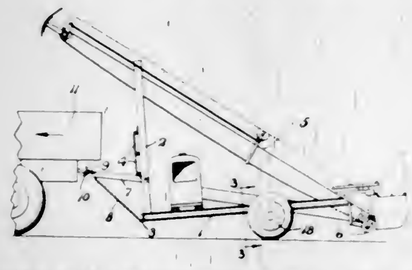


4. A boat trailer comprising a pair of side members having forward end portions and rear end portions, the forward end portions of said members extending toward each other, means joining the forward end portions of said members and including a coupling for engaging a towing vehicle, means supported on the forward end portions of said members for engaging and supporting the front end of a boat, means carried by the rear end portions of said members for supporting the rear end of a boat, a pair of side supports having forward portions pivoted to said members for vertical swing movement, said supports including rear portions extending upwardly beyond the side members, means extending over the members and connecting the rear portions of said supports together, coil springs connecting the rear portions of said supports to said members, and a wheel carried by each support.

2,657,935
WHEEL UNIT MOUNTING
Leo O. Greeley, Cadillac, Mich., assignor to General Sales Company of Cadillac, Cadillac, Mich., a limited partnership of Michigan
Application May 19, 1947, Serial No. 749,108
1 Claim. (Cl. 280—33.4)

In a portable loading machine having a forward end and a rearward end and adapted to being towed at the forward end by a vehicle, the combination including: a pair of spaced chassis mem-

bers under said loading machine; a rectangular frame between said chassis members; slide members connecting said rectangular frame to said chassis frame members for forward and rearward reciprocating sliding movement therealong; a horizontal axle; wheels rotatably mounted at the ends of the axle; means for connecting said axle to said rectangular frame, said means being located between the front and rear ends of said rectangular frame; a rear wheel at the rearward end of said loading machine; said rectangular frame and said axle being movable along said chassis frame from a position adjacent the forward end of said loading machine and forward of the center of gravity of said loading machine to a position rearward of the center of gravity of said loading machine whereby said loading machine will tip forwardly about said axle and raise said rear wheel; means at the forward end of said loading machine for attaching it to said vehicle; and brake means carried by said axle operable to hold said wheels on said axle against rotation



whereby said loading machine upon being urged forwardly will slide with respect to said rectangular frame until said axle is rearwardly of the center of gravity of said vehicle; and said loading machine is supported by said wheels on said axle and said means attaching said loading machine to said vehicle, and upon being urged rearwardly said loading machine will slide with respect to said rectangular frame until said axle is adjacent said forward end of said loading machine and said loading machine is supported on said wheels on said axle and said rear wheel; said brake means comprising brackets secured to the axle inwardly of said wheels, a rock shaft extending through the outer ends of said brackets mounted for rocking movement; a manually operable handle member to rock the shaft, and means thereon and on a bracket to releasably hold the shaft in any position to which it is rocked, said rock shaft extending to the wheel at each end for setting or releasing brakes upon rocking the shaft in opposite directions.

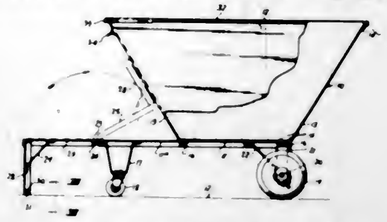
2,657,936

SERVICING CART FOR BABY CHICK BATTERIES

Fred P. Fabel, Buffalo Lake, Minn.

Application March 14, 1951, Serial No. 215,555
2 Claims. (Cl. 280—34)

1. In a cart of the character described for servicing baby chick batteries as conventionally arranged in tiers and with the tiers in closely spaced rows, a feed container having a closed bottom and open top and of such width as to pass freely between the rows of battery tiers, the bottom having an extension at one end, a caster wheel beneath the extremity of said extension and wheels beneath the opposite end of the container, a step pivotally mounted at the extremity of said extension and foldable from a position against the adjacent end of the container out to an unfolded position forming a horizontal projection of said extension, and a stand on said step to engage the floor and support the weight of an operator as he stands on the step in servic-



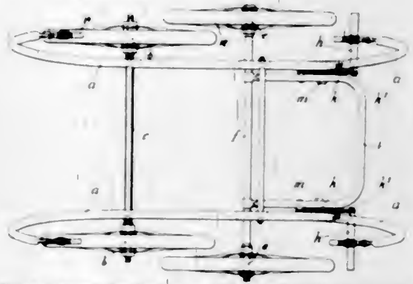
ing the upper batteries, the lower edge of the stand having anti-friction means engaging the floor whereby the cart may be moved in either direction with the step in its unfolded position.

2,657,937

PERAMBULATOR AND LIKE VEHICLE HAVING A TOGGLE-OPERATED BRAKE MECHANISM

Barry Simpson, Billacombe, near Plymouth, England, assignor of one-half to Simpson, Fawcett & Company Limited, Billacombe, England

Application March 3, 1949, Serial No. 79,447
Claims priority, application Great Britain March 12, 1948
3 Claims. (Cl. 280—47.38)



1. In a perambulator or like vehicle comprising a body, a forward pair of wheels, a rearward pair of wheels, said body being carried by said pairs of wheels, one of said pairs of wheels being movable longitudinally of the body, toggle mechanism operatively connected to said movable pair of wheels for reciprocating said movable pair of wheels towards and away from the other pair, and a brake supported by the body and located in the path of movement of said movable pair of wheels to act as a stop limiting the movement of said movable pair away from the other pair with concomitant engagement against the wheels of said movable pair to prevent rotation thereof, telescopic stays adjustably spacing said pairs of wheels apart and comprising a tubular member, and a spring within said tubular member and operatively associated with the toggle mechanism for exerting a thrust upon said toggle mechanism.

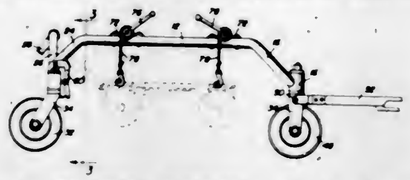
2,657,938

DISK CARRYING TRAILER

Paul W. Browne, Roodhouse, and Donald M. Piper, Greenfield, Ill.

Application August 7, 1950, Serial No. 178,056
1 Claim. (Cl. 280—62)

A disc carrying trailer comprising a tubular frame including a pair of side members, the front ends of said side members sloping downwardly and converging towards each other, the converging ends being rigidly secured to a tubular sleeve having a vertical axis, a front caster wheel journaled in said sleeve, a transverse brace rigidly secured to said side member adjacent the point where they merge into the front ends, the rear ends of said side members sloping downwardly and rearwardly, an upstanding reinforcing arch rigidly secured to the lower portion of said rear



ends, a vertically extending sleeve bearing mounted at the lower portion of said rear ends, a pair of caster wheels having cylindrical bearings journaled in said sleeve bearings, locking means for one of said rear caster wheels including registrable apertures in said sleeve and bearing, a lock pin receivable in said registrable apertures, a lever pivoted on said frame, said pin pivoted on said lever, and a spring engaging said frame and said lever for resiliently urging said pin into said apertures.

2,657,939

ROCKING AXLE WITH STEERABLE STUB AXLES

Monroe B. Beebe, Old Lyme, Conn.

Application March 27, 1951, Serial No. 217,832
2 Claims. (Cl. 280—103)

1. In a trailer vehicle having a frame including side members, a cross member extending transversely of said frame adjacent the front end thereof and secured at its opposite ends to said side members, a pair of plates depending from said cross member in spaced apart relationship to each other and extending longitudinally of said cross member, a front axle disposed between said plates, said axle and said plates having mutually registering apertures therein, a pivot pin extending through said apertures and connecting said axle to said plates for freedom of rocking movement of said axle relative to said frame about said pivot pin, a yoke formation on the front end of said pivot pin, a drawbar pivotally connected at its rear end to said yoke formation, a tongue socket pivotally secured to the front end of said drawbar, front wheel spindles pivotally mounted one on each end of said axle, front wheels journalled one on each of said spindles, steering arms extending one from each of said spindles, and means connecting said drawbar to said steering arms for steering movement of said front wheels upon pivotal movement of said drawbar about the pivotal connection between said drawbar and said pivot pin.

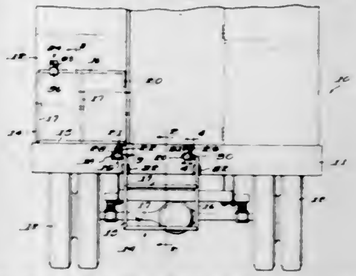
2,657,940

SWINGABLE VEHICLE ATTACHED LADDER

Frank M. Davidson, Glade, Kans.

Application May 10, 1950, Serial No. 161,153
1 Claim. (Cl. 280—166)

In combination, a truck including a bed, and a housing supported on said bed, a ladder including a pair of spaced parallel legs, and a plurality of spaced parallel steps extending between said legs and secured thereto, one end of each of said legs being arranged transversely with respect to the main portion of the leg to define a bearing arm, a swivel mounting for pivotally connecting one of said bearing arms to said truck bed, a



bracket spaced from said swivel mounting and secured to said truck bed for engagement with the other bearing arm when the ladder is being used, bumpers secured to said truck bed for engagement with said legs when the ladder is in operative position, and a bracket secured to said housing for supporting the ladder when the ladder is not being used.

2,657,941

BICYCLE KICK STAND CONSTRUCTION

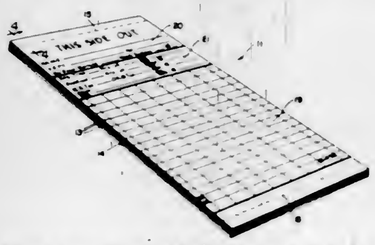
George R. Adzima, Westfield, Mass., assignor to The Westfield Manufacturing Company, Westfield, Mass., a corporation of Massachusetts

Application November 26, 1952, Serial No. 322,779
2 Claims. (Cl. 280—301)

1. In a kick stand assembly for bicycles comprising a tubular housing fixed integrally on the frame of the bicycle and provided with a short cup-shaped enlargement at one end forming a cam receiving socket; said housing having the inner bore of the elongated tubular section thereof of unobstructed uniform diameter throughout its length with the web portion of the cup-shaped enlargement extending from the outer edge of said tubular section, said enlargement being provided with an open ended axially extending slot with the outer end edge of said enlargement having an outwardly extending flanged rim, in combination with a bent leg prop having a trunnion angularly extending therefrom provided with a cartridge type sub-assembly for insertion in said housing and including a cam pin fixed to the trunnion adjacent its inner end, a cam member slidably and rotatably mounted on the trunnion adjacent said pin with the surface opposed to said pin formed with angularly related positional pin receiving grooves, a spring surrounding said trunnion and urging said cam member against said pin, a bushing fixed to said trunnion adjacent the free end thereof and holding said spring under compression against the cam member to

removably seat said pin in one of said grooves, said cam member having a radially extending lug for keyed engagement in said axial slot of the cup-shaped enlargement to hold the member against rotation therein, said engaged lug being spaced from said flanged rim and extending beyond the outer surface of said enlargement, and a snap ring embracing the enlargement between said lug and rim for holding said assembly against removal.

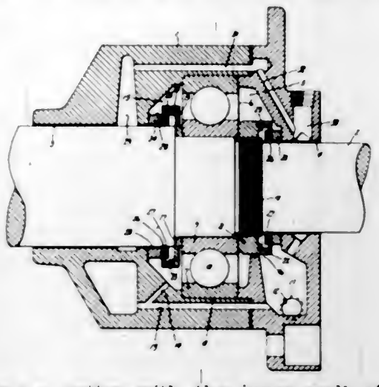
2,657,942
MULTIPLE TIMECARD
Grange K. Pattison, Chicago, Ill.
Application December 23, 1950, Serial No. 202,523
2 Claims. (Cl. 282—23)



1. A time recording pad unit adapted for marking in clock controlled printing mechanism for time recording purposes, said pad unit embodying a plurality of sheets, means securing the opposite ends of said sheets together at the opposed margins of the pad, to hold the sheets in stacked relation, each of said sheets having designated areas defined in the front faces thereof and disposed in superposed registration in the pad unit, including a time marking area and an indicia receiving area for receiving pad-identifying indicia, said sheets each having a layer of copying pigment disposed on the backs thereof in underlying registration with the indicia receiving area of the sheet, each sheet being free of copying pigment in registration with its time marking area, whereby all of the sheets may simultaneously be marked with identical identifying indicia, and the sheets may be individually marked for time recording purposes in the time marking area thereof, each of said sheets, after being so individually marked, being successively removable from said pad unit by separating the sheet from the unit along the end margins thereof, to thereby reveal the time marking area of a next underlying sheet in condition for the reception of time record markings thereon.

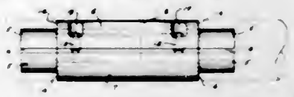
2,657,943
MEANS FOR PREVENTING OIL CREEPAGE
Earl R. Booser, Lynn, and Donald F. Wilcock, Marblehead, Mass., assignors to General Electric Company, a corporation of New York
Application April 4, 1950, Serial No. 153,876
1 Claim. (Cl. 286—5)

In an oil lubricated bearing assembly comprising a bearing housing apertured to receive a shaft and having a cavity formed therein, a bearing positioned in said cavity, a shaft rotatably seated in said bearing, and means for furnishing oil to said bearing; an oil thrower secured to said shaft in said cavity for centrifugally throwing the oil into said cavity which tends to flow along said shaft from said bearing, said oil thrower having an annular throwing portion and an axially extending flange portion adjacent the outer edge of said throwing portion, the inner circumferential surface of said flange portion of said oil thrower being formed of polytetrafluoroethylene whereby creepage of oil around said thrower is prevented, and an annular stationary oil barrier surrounding said shaft, said barrier being positioned in said cavity and secured to said housing



defining a gutter with the inner wall of said cavity, the flange portion of said oil thrower overhanging the outer circumferential edge of said barrier, said barrier being formed of polytetrafluoroethylene whereby creepage of oil out of said cavity is prevented.

2,657,944
COUPLING FOR TUBULAR MEMBERS
Louis Miller, Akron, Ohio
Application June 17, 1949, Serial No. 99,677
1 Claim. (Cl. 287—2)

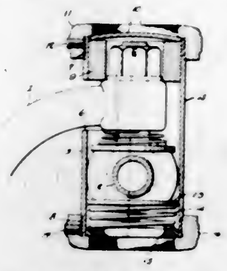


In combination, two tubular members of the same outside and inside diameters coupled by a member comprising a cylindrical body portion of the same outside diameter as the outside diameter of the tubular members with the ends of the tubular members abutting it, a cylindrical projection at each end of the body portion and expanded against the inner surfaces of the tubular members, a slot starting at the surface of the body portion and extending the length of the body portion and the two cylindrical projections and extending more than half way through each diametrically, and a setscrew threaded in the body portion on one side of the slot with its base turned against the slot surface of the body portion on the side of the slot whereby the coupling is expanded as aforesaid, and with the head of the setscrew at least flush with the outer surface of the body portion.

2,657,945
SAFETY COVERING FOR TIE-ROD ENDS
Fred R. Britt, Chattanooga, Tenn.
Application January 30, 1950, Serial No. 141,229
4 Claims. (Cl. 287—90)

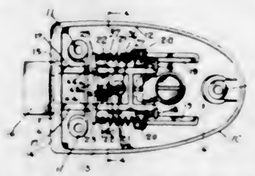
1. A safety shield for connected, superposed ends of a steering knuckle arm and a tie-rod of a steering gear assembly comprising a cylindrical sleeve formed open at opposite ends and proportioned to surround and extend above and below said arm end and tie-rod end respectively, said sleeve being compositely formed of a pair of sleeve sections of semi-circular cross sectional

configuration, said sections contacting along their side edges, the side edges of at least one of the sections being recessed to receive the arm end and tie-rod end respectively, means at opposite ends of the sleeve engaging the respective sections to



hold them assembled with one another, said means extending inwardly of the sleeve to form abutments at opposite ends of the sleeve, and stops extending from said abutments adapted for engagement with the arm end and tie-rod end respectively to prevent disconnection thereof.

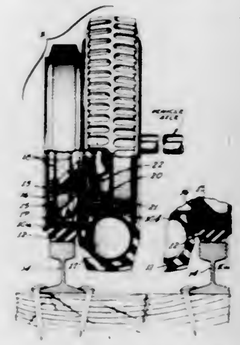
2,657,946
NIGHT LATCH BOLT STOP
Andrew Erkkila, Fitchburg, Mass., assignor to Independent Lock Company, Fitchburg, Mass., a corporation of Massachusetts
Application November 5, 1949, Serial No. 125,773
8 Claims. (Cl. 292—169)



1. In a rim latch having a casing including a spring projected latch bolt, a bolt shank extending therefrom and guided within said casing, the combination having a manually operable stop button for dogging said latch bolt, said stop button having a manipulative head and a dogging ear extended therefrom, pivot means for said button member within said casing, a slot formed in said casing through which said head projects, pivot supporting means within said casing for said pivot means, lug means on said shank cooperating with said ear for dogging said shank in one position of said stop button and pivotally movable to clear said lug means in another position of said stop button.

2,657,947
ROAD-RAIL WHEEL
Charles A. Kerner, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application July 23, 1951, Serial No. 238,177
2 Claims. (Cl. 295—8.5)

1. A road-rail wheel, comprising a vehicle wheel having a pair of tire mounting rims held together by rim attachment means, a solid rubber tire mounted on one of said rims, a pneumatic rubber tire mounted on the other said rim, said solid tire being positioned to traverse a rail of a two rail track outwardly of said pneumatic tire, said solid rubber tire having a smaller outside diameter than said pneumatic tire, said pneumatic tire being spaced by a distance from said solid tire to flange the side of said rail facing the other rail of said track, and said rim attachment means comprising a mounting member rigidly attached to the rim carrying said pneumatic rubber tire, a plurality of bracket members fixed to said mounting member and arranged in a circle around the axis of revolution of said wheel, with a surface of each bracket facing outwardly of said circle, the diameter of



the circle of said surfaces being slightly less than the inner diameter of the rim carrying said solid rubber tire, a plurality of annular grooves cut in the inner-facing portion of said solid tire rim, and a plurality of set screws threaded in said brackets and pointing outwardly through said bracket surfaces, and said set screws seated in said grooves when said solid tire rim is in attached position, whereby said latter rim can be adjusted in any radial direction to occupy a position exactly coaxial with the other rim.

2,657,948
VEHICLE SILL MAT
Mark J. Sturtevant, St. Clair Shores, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application December 23, 1949, Serial No. 134,676
2 Claims. (Cl. 296—1)



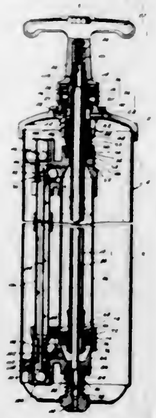
2. In a device including a body portion having a backing plate provided with an opening therein, a mat adapted to cover said backing plate comprising a rubber-like strip adapted to engage one face of said backing plate, a yieldable rubber-like plug integrally connected to said strip having a neck adapted to extend through said opening and a head adapted to engage another face of said backing plate to clampingly connect said backing plate and strip, said mat being provided with a tool receiving recess for facilitating the elongation of said head to permit passage thereof through said opening, said recess having an entrant portion of a predetermined diameter in said strip and said recess extending through said neck and terminating in said head in a portion of enlarged diameter whereby the recess is adapted to receive a tool of not to exceed said predeterminad diameter and the portion of said recess which has an enlarged diameter facilitates reduction in diameter of the head portion during said elongation.

2,657,949
TOWED SPRAYER
Charles S. Morrison, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 15, 1949, Serial No. 110,273
13 Claims. (Cl. 299—39)



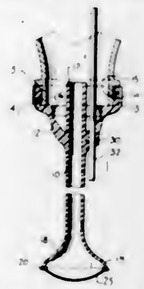
13. A sprayer comprising a frame, a pair of booms connected with said frame for swinging between laterally outwardly extended and trailing rearwardly disposed positions, a bracket fixed to each boom, a caster wheel spindle connected at the upper end portion thereof with each bracket, each spindle extending generally vertically above the associated bracket, a caster wheel connected with the lower end of each spindle, and means connectible with the upper ends of said caster wheel spindles above said brackets for holding said booms substantially alongside one another in trailing relation, said means comprising a cross member having vertical sleeve extensions fixed to said member at the ends thereof, said sleeve extensions being of such length as to hold said spindle generally in a vertical position.

2,657,950
PUMP BEARING SEAL FOR FIRE EXTINGUISHERS
Charles K. Huthsing, Los Angeles, Calif.
Application November 24, 1951, Serial No. 258,021
5 Claims. (Cl. 299—98)



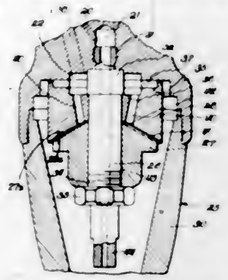
1. In a hand pump fire extinguisher, a tank, a pump assembly in the tank including a discharge tube having an outlet end with a nozzle fitting into which the tube extends, a pump frame in the tank swingable about said discharge tube, a washer carried by said pump frame and loosely fitting said discharge tube, a friction reducing sealing washer closely fitting said discharge tube and engaging a face of said first mentioned washer, and a compression spring interposed between the nozzle fitting and the friction reducing sealing washer to hold the sealing washer against the first mentioned washer and also to hold the pump frame against rattling.

2,657,951
SPRAYING DEVICE
Harold D. North, Jr., Shaker Heights, Ohio
Application October 18, 1949, Serial No. 122,041
6 Claims. (Cl. 299—101)



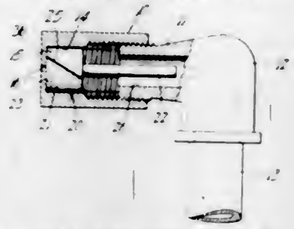
1. A spraying attachment for a standard jug having a threaded opening comprising a thermoplastic unit forming a tube and cap portion integral with the tube and flaring outwardly therefrom toward the cap fitting portion, the latter being provided with internal threads and a sealing shoulder, and the tube extending into the cap portion and beyond the plane of the rim thereof, the other end of the tube being shaped to receive a disk-like spraying head, said flaring portion having an opening therethrough parallel with the tube and inside of the cap portion, and said device including a vent tube slidably fitted in the latter opening for extending upwardly into the container and adapted to be longitudinally adjustable therein, said unit being formed by thermoplastic molding of a self-supporting but somewhat resilient material.

2,657,952
APPARATUS FOR DISPENSING CARBONATED BEVERAGES
Lewis E. Mendonca, Chicago, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application June 17, 1948, Serial No. 33,610
9 Claims. (Cl. 299—107)



1. In a nozzle the combination including a stem, a collar having a frusto-conical lower surface received on said stem, a passage through said collar, a spray guide having a frusto-conical upper surface received on said stem slightly spaced from said collar the space between the two forming a second passage which extends downwardly and outwardly from the first mentioned passage, and an enclosing body having an inner wall spaced from the mouth of said second passage, said inner wall extending substantially above the mouth of said second passage.

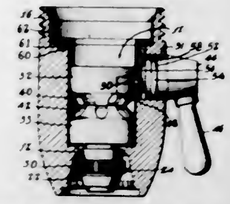
2,657,953
SPRAY NOZZLE
Harold Hopper, Denver, Colo.
Application September 7, 1950, Serial No. 183,621
1 Claim. (Cl. 299—120)



A spray nozzle comprising a body having a cylindrical chamber opened at one end for connection to a source of supply and having a flat end wall at the opposite end formed with a central spray orifice, and a cylindrical swirl-producing member movable axially within the chamber and itself having at the orifice end thereof an upstanding annular wall defining a cup the rim of which bears upon the end wall in sealing contact therewith, the bottom of the cup being substantially parallel to the opposing end wall surface and defining therewith and with the annular wall relatively shallow circular swirl chamber, the periphery of the cylindrical member being formed with plural spiral grooves each of a depth substantially equal to that of the thickness of the annular wall to afford an opening through at the annular wall into the swirl chamber of major capacity, such major openings being in the form of lateral slanting slots to minimize the rotative urge of the fluid passing therethrough, said cylindrical member having a body of substantially greater extent than the depth of the swirl chamber, and said spiral grooves having a pitch insufficient to create a rotative urge upon the member of a degree capable of overcoming the inertia of the body and the friction in the contact between the annular wall and said end wall, whereby the member will remain quiescent to augment the swirl of the fluid in the swirl chamber.

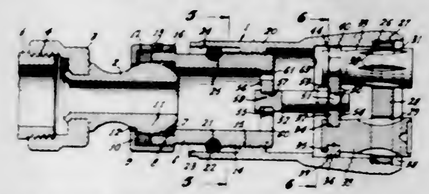
2,657,954
SHOWER HEAD
Ralph E. Bletcher and Clarence H. Bentley, Los Angeles, Calif., assignors of ten per cent to Ralph E. Bletcher, twelve and one-half per cent to Ernest H. Bucknell, twelve and one-half per cent to Mabel Bucknell, ten per cent to Pearl White Bletcher, twenty-five per cent to Marcia Bucknell Liston, ten per cent to James H. Bletcher, ten per cent to Hazel Bletcher Skinner, and ten per cent to Charlotte R. B. Robertson
Application February 20, 1950, Serial No. 145,284
8 Claims. (Cl. 299—130)

1. A shower head comprising: a housing provided with a restricted throat and a skirt extending below said throat, a plug member disposed in said throat, a resilient sleeve adapted to be mounted upon said plug member and provided with a plurality of teeth at one extremity of said sleeve so that the circumference of the sleeve



about the teeth bearing portion is slightly larger than the circumference of the throat and said sleeve also provided with an annular ridge immediately above the teeth bearing portion of said sleeve, and means for longitudinally adjusting said plug member in said housing.

2,657,955
SHOWER HEAD
Oscar Manning, Los Angeles, Calif., assignor to Calay Manufacturing Co., Los Angeles, Calif., a corporation of California
Application May 23, 1950, Serial No. 163,689
7 Claims. (Cl. 299—136)

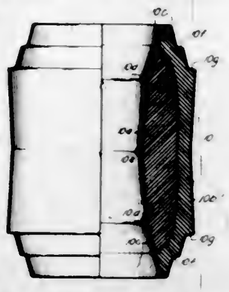


1. A spray head comprising telescoping casing parts, one of said parts having a port plate thereon, said port plate having a plurality of laterally spaced ports, a thread coupling between said casing parts, a plurality of flow controlling plugs each extending through one of said ports in said port plate and means on said other casing part for supporting said plugs for non-reciprocating rotation with said port plate on rotary reciprocation of said one casing part, said means comprising a rotary support and means preventing reciprocation of said rotary support.

2,657,956
DRILL PIPE PROTECTOR
Jesse E. Hall, Sr., Weatherford, Tex., assignor of ten per cent to Parker Industrial Products, Inc., Weatherford, Tex., a corporation of Texas
Application August 15, 1949, Serial No. 110,279
7 Claims. (Cl. 308—4)

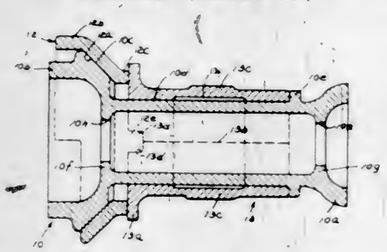
1. In a drill pipe protector, a generally cylindrical body of rubber-like elastic material having a central bore, said bore being circular in transverse cross section and, in the normal unstressed condition of said body, being tapered axially so its side walls converge from each end of the body all of the way to the center thereof, whereby said bore is smallest in diameter at its midpoint and, at any point spaced axially from the midpoint, is smaller in diameter than it is at any other point spaced farther from said midpoint, said body comprising inner and outer tubular laminations formed of different kinds of rubber bonded together, the inner lamination being shorter than said body and its bore forming the medial por-

tion of the bore of said body, the outer lamination covering the inner lamination, including the



ends thereof, and having end bores aligned and contiguous with the bore of the inner lamination to form the end portions of the bore of said body.

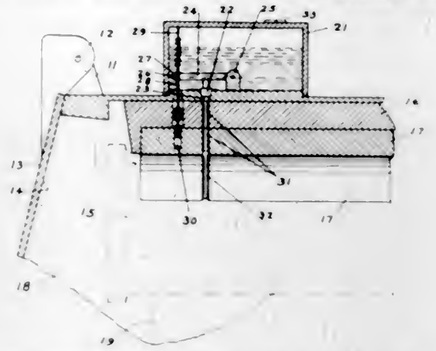
2,657,957
BEARING FOR DISK HARROWS
Harold T. McNally, Detroit, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application June 25, 1951, Serial No. 233,321
5 Claims. (Cl. 308—19)



1. A bearing for a disc type implement comprising a spindle having an external conical bearing surface portion and a coaxial cylindrical bearing portion, a bearing member adjacent said conical portion and surrounding said spindle for rotatably supporting said cylindrical bearing portion of said spindle, a collar having an internal conical bearing surface constructed and arranged to surround said external conical portion in bearing relation, one end of said collar being in abutment with one end of said bearing member, and means on said bearing member detachably engageable with said collar for preventing rotation of said collar relative to said bearing member.

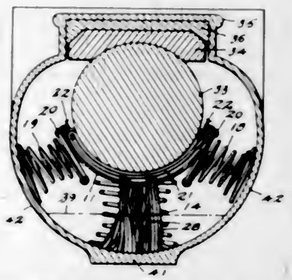
2,657,958
JOURNAL BEARING LUBRICATOR
Frank P. Tagliaferri and Francis T. Gier, Baltimore, Md.
Application May 1, 1952, Serial No. 285,502
1 Claim. (Cl. 308—76)

In combination, a journal box, a journal extending therein, upper and lower bearing elements in said box oppositely contacting the journal, the lower of said bearing elements comprising a cellular, porous and resilient substance, an oil reservoir associated with the journal box, channel means for supplying oil from said reservoir to the above substance to be absorbed thereby, a valve controlling said channel means, a horizontal lever connected to said valve and having one end pivoted on the reservoir, a spring connected at one end to the end of the horizontal lever opposite the pivoted end thereof, the opposite end of said spring to be secured to the reservoir, a second spring connected at one end to the same end of the horizontal lever as the first mentioned spring, a fusible member embedded in one of said bearing elements, and a connection between said fusible member and the free end of the second mentioned spring, both



springs normally tensioning the horizontal lever in a position in which the valve closes the channel means, whereby when the fusible member melts due to heat in the bearing members said second spring is freed and the first spring causes pivotal movement of the horizontal lever to open the valve and allow oil flow to the resilient substance.

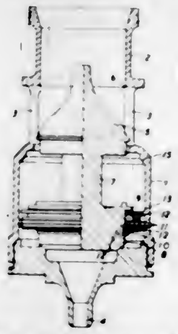
2,657,959
JOURNAL BOX LUBRICATOR
William J. Sockell, Raleigh, N. C.
Application March 26, 1952, Serial No. 278,696
6 Claims. (Cl. 308—88)



1. A journal box lubricator comprising an elongated pad holder of arcuate cross section adapted to be disposed in a journal box around the underside of a wheel axle, a pad detachably mounted in the pad holder and adapted to be supported thereby in engagement with the axle, a plurality of wick elements connected to the pad and extending downwardly therefrom and from the holder and adapted to be submerged in a lubricant contained in the bottom portion of the journal box, a pair of bottom expansion coiled springs having upper convolutions secured to the under convex side of the holder intermediate of its side edges and one adjacent each end, said bottom springs extending downwardly from the holder and having bottom convolutions adapted to rest on a bottom portion of the journal box for yieldably supporting the holder with the pad in engagement with the axle, and a pair of coiled expansion springs forming side springs, said side springs each having an inner end convolution having a portion swingably connected to the

outer side of the holder adjacent the side edge thereof, said side springs normally extending outwardly and downwardly from the sides of the holder and having outer convolutions adapted to bear against side walls of the journal box, the inner convolutions of said side springs being maintained by the compression thereof in engagement with the side portions of the outer side of the holder, and said side springs and bottom springs being adapted to cooperate with one another and with the journal box in maintaining the holder in a centered position in the journal box and beneath a portion of the wheel axle.

2,657,960
PISTON
Cecil Hugh Latimer-Needham, North Bersted, Bognor Regis, England, assignor to Flight Refuelling Limited, London, England, a British company
Application March 6, 1950, Serial No. 147,796
Claims priority, application Great Britain March 7, 1949
6 Claims. (Cl. 309—4)

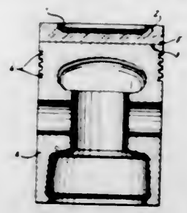


1. An essentially loosely fitting piston and cylinder assembly adapted for use with a working fluid which may contain suspended solid matter in a finely divided state, said piston comprising a central core, a number of relatively flexible spring shim washers of small thickness mounted on the core and having a small clearance with respect to the inner walls of the cylinder, a number of thicker, rigid, spacing washers of smaller diameter than the shim washers being mounted on the core to alternate with the shim washers, and two end collars in fixed axial relationship with the core, between which collars the stack of spring shim washers and relatively rigid spacing washers is retained, the resilience of said shim washers being such as to permit the margins thereof which protrude beyond the periphery of said rigid spacing washers to resiliently deflect appreciably in an axial direction to prevent binding and seizing of the piston within the cylinder on account of the presence of such finely divided matter.

2,657,961
PISTON FOR INTERNAL-COMBUSTION ENGINES
Dietrich von Lassberg, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany, a corporation of Germany
Application March 15, 1950, Serial No. 149,711
7 Claims. (Cl. 309—9)

1. A piston element for an internal combustion engine piston, comprising a layer of sintered ceramic powder forming a top working surface of

the element, an intermediate zone consisting of a sintered mixture of ceramic and metal powder, with the percentage of metal powder gradually in-



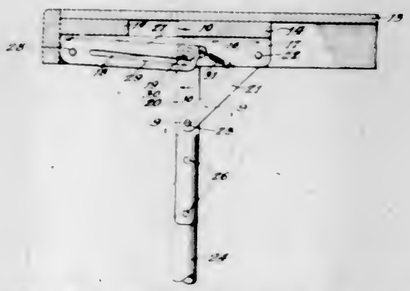
creasing towards the bottom of the element, and a bottom part consisting of sintered metal powder substantially free of ceramic admixtures for attachment to said piston.

2,657,962
PISTON RING
Albert Stanley Robinson, Leeds, England, assignor to Specialloid Limited, Leeds, England
Application May 2, 1951, Serial No. 224,151
1 Claim. (Cl. 309—45)



A scraper ring of the slotted and double flanged type adapted to initially be introduced into the groove provided in the piston of an internal combustion engine for its reception, characterised in this that the lower peripheral edge of each flange is chamfered at an angle of about 3 to 6° with the axis of the ring, and in which the chamfer stops short of the upper peripheral edge of each flange and is succeeded by a cylindrical land parallel with the axis of the ring.

2,657,963
FOLDING LEG STRUCTURE
Martin Fox, Chicago, Ill., assignor to The Seng Company, a corporation of Illinois
Application February 6, 1951, Serial No. 209,612
1 Claim. (Cl. 311—99)



Foldable leg structure for a table top comprising: a pair of spaced angle brackets adapted to be secured to the underside of a table top, said brackets having upright portions provided with substantially horizontally extending slots; an inverted U-shaped tubular member forming a pair of connected integral leg members, each of said leg members having a rigid top extension which is provided at its upper end with a headed stud slidably mounted in one of said slots; a pair of separate bracing links each pivotally connecting the inner end of the upright portion of one of

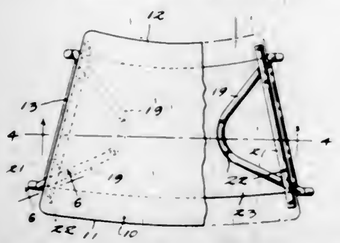
the brackets to the upper portion of one of the leg members; an elongated latch plate pivotally connected by its extreme outer end portion to the outer end of the upright portion of one of said brackets, said latch plate lying immediately against a surface of said upright bracket portion and having an L-shaped slot impaled by the headed stud in the adjacent leg member, the major portion of said slot being substantially horizontal and terminating at the end remote from the pivotal connection in an upwardly extending portion adapted to hold the stud releasably in open leg position, said latch plate having a portion projecting below the bottom margin of the bracket; and a tension spring connecting the inner end portion of the latch plate to said bracket.

2,657,964
TABLE AND THE LIKE
Gilbert A. Watrous, Chicago, Ill.
Application February 15, 1951, Serial No. 211,073
9 Claims. (Cl. 311—105)



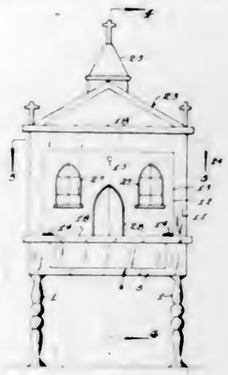
1. Furniture construction comprising a plurality of structural elements assembled to support a top section including a pair of essentially flat elongated lateral components mortised together edgewise in crossed relation so as to present their longitudinal edges, respectively, in common parallel planes, a vertical component having mortises extending longitudinally from one end in crossed relation to each other interfitted with said lateral components at their conjunctive intersection, at least one of said lateral components being cambered in right-section throughout its extent so as frictionally to bind all of said components together.

2,657,965
FURNITURE TOP TO FRAME CONNECTIONS
William James Bargen, Waukegan, Ill.
Application April 16, 1951, Serial No. 221,232
1 Claim. (Cl. 311—108)



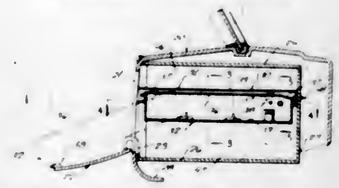
In a table having a flat top, supporting means for said top comprising a pair of oppositely extending horizontally disposed V-shaped members engageable beneath the table top, downwardly curved extensions carried by the divergent ends of said members, a pair of downwardly projecting legs integral with said extensions, and a tie bar fixed to the convex outer sides of said extensions and disposed in the horizontal plane of the upper sides of said V-shaped members, said bar projecting laterally beyond said extensions and cooperating with said V-shaped members in forming a rigid top support while simultaneously holding the upper ends of said legs and said extensions against spreading.

2,657,966
TABLE SHRINE
Scott A. Brockway, Venice, Calif.
Application August 31, 1951, Serial No. 244,520
1 Claim. (Cl. 312—204)



An article of furniture including a base; a box-like structure mounted upon the base to extend upwardly therefrom and having a back wall and an opening in the front wall thereof; a door providing access to the interior of the structure and hingedly mounted thereupon to swing into and out of position in said opening, said door when swung out of the opening being supportedly positioned upon the base to extend substantially horizontally and outwardly thereof to provide a desk member, the door being formed in the simulation of a building front to impart the appearance of a building to said structure in the closed position of the door; and an upstanding back piece arranged in face to face sliding contact with the back wall of said structure and pivotally connected intermediate its ends to the back wall of said structure for rotation about a horizontal axis between opposite positions one-hundred eighty degrees apart, said ends of the back piece being respectively exposed in said opposite positions of the back piece above said structure and being formed to simulate gable portions of the building simulated upon the door.

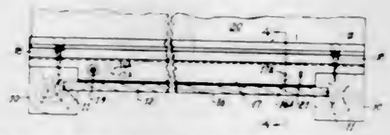
2,657,967
UTILITY TRAY
Everette V. Gilchrist, Jackson Heights, N. Y.
Application February 21, 1950, Serial No. 145,400
1 Claim. (Cl. 312—246)



An instrument panel tray device comprising a housing adapted to be fixedly mounted on the instrument panel, said housing having a horizontal plate and opposed horizontal flanges arranged

below and spaced from said plate and dependingly carried by the latter, a tray slidably movable inwardly and outwardly along said pair of flanges, said tray including an open top and upstanding sides arranged so that the top is below and spaced from said plate with its sides between and spaced from said flanges, a horizontal pin projecting exteriorly of each of the sides of said tray, said pins being slidably supported and movable upon said pair of flanges, and slotted bolts on the tray sides adjacent the inner ends thereof slidably receiving said pair of flanges for limiting the sliding outward movement of said tray.

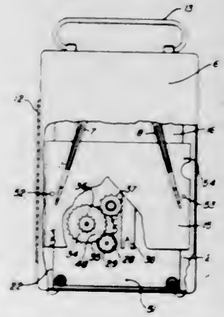
2,657,968
DRAWER SLIDE FOR CABINETS
Howard C. Soehner, Louisville, Ky., assignor to The Mengel Company, Louisville, Ky., a corporation of New Jersey
Application January 6, 1950, Serial No. 137,052
3 Claims. (Cl. 312—330)



1. A composite device for supporting and guiding a slidable drawer, comprising a slide rail adapted for attachment to a cabinet for supporting each side member of the drawer, a guide rail superimposed on and in contact with the slide rail for guiding the drawer and having a face parallel and juxtaposed to but spaced from the path of an outside side face of the drawer; said slide rail having a bell-mouth through hole disposed adjacent each end thereof; said guide rail having a blind hole disposed in alignment with said through holes so that the end of a nail or the like can be passed through the bell-mouth hole and into the blind hole for moving the said guide rail with respect to a drawer lodged on the slide rail.

2,657,969
PORTABLE RECORDER
Stephen S. Haynes, Towson, Md., assignor to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware
Application December 2, 1949, Serial No. 130,801
1 Claim. (Cl. 346—134)

In a portable recording instrument of the type having at least one condition responsive pen cooperating with a chart moving in a vertical direction to record the value of a condition under observation, in combination: a vertically extending main support plate having a pair of substantially parallel vertical edges, a carriage for supporting said chart, means affixed to said carriage and cooperating with said edges to permit said carriage to move with respect to said plate in a vertical direction, said last named means comprising a first pair of flanged wheels rotatably mounted on said carriage and engaging one of said edges and a third wheel rotatably mounted on said carriage and engaging the other of said edges, said third wheel being mounted on a lever arm, said lever arm being pivotally mounted on said carriage and biased in a direction urging said third wheel against said other edge, said third wheel being adapted for limited motion in a direction tranverse to said edges, and means for moving said carriage, comprising a rack affixed to said carriage, a pinion engaging said rack and rotatably mounted on said plate, a two-speed gear for driving said pinion, a clock-driven gear for driving said two-speed gear, a



clock mechanism mounted on said main support plate and having its drive-shaft extending through an aperture in said support plate so that said clock-driven gear can be affixed thereto, said two-speed gear comprising a pair of integral gears having different radii arranged about a common center, and means for selectively mounting said two-speed gear for rotation about alternate axes in said plate whereby, in one position, the larger of said gear pair engages said pinion and said clock-driven gear and, in the other position, the larger of said gear pair engages said pinion and the smaller of said gear pair engages said clock-driven gear, said last named means comprising a pair of spaced threaded apertures in said plate, an axially located aperture in said two-speed gear, and a screw cooperating with said axial aperture to permit rotation of said two-speed gear, said screw selectively engaging either of said pair of apertures in said plate.

CHEMICAL

2,657,970
STABILIZED STAINS COMPRISING DIOXANE
Lawrence Rudick, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application April 25, 1951, Serial No. 222,943
3 Claims. (Cl. 8—4)

1. A solution comprising dioxane, water, at least one oil-soluble organic dye and from 0.5% to 1.5% by weight of diethyl aminoethanol.

2,657,971
IMPRESSION MATERIAL
Edwin H. Lochridge, Glendale, Calif., assignor to Dental Perfection Company, Glendale, Calif., a corporation of California
No Drawing. Application December 10, 1951, Serial No. 260,929
15 Claims. (Cl. 18—47)

1. Impression taking material comprising a gel forming agent having an acid radical selected from the group consisting of alginic, pectic and carboxymethyl cellulose acids, an inorganic salt

of the class consisting of calcium and lead salts having a metallic ion reactive with said acid radical of the gel forming agent to produce a water insoluble gel, and an alkali metal salt of a tetra carboxy acid of ethylene diamine as a retarder for such reaction.

2,657,972

COPOLYMER OF L-LEUCINE AND DL-PHENYLALANINE

Robert B. Woodward, Cambridge, Mass.

No Drawing. Application September 6, 1952, Serial No. 308,303

7 Claims. (Cl. 18—54)

1. The process of preparing synthetic linear polypeptide copolymers comprising the condensation of a mixture of N-carboxy-L-leucine anhydride and N-carboxy-DL-phenylalanine anhydride, with the evolution of carbon dioxide, in an inert organic solvent and in the presence of trace amounts of an initiator having an active hydrogen atom, and said copolymers are characterized by benzene-solubility, a degree of polymerization of at least 100, and fiber and film-forming ability.

2,657,973

PROCESS FOR WET-SPINNING CELLULOSE TRIACETATE

Edgar Bertie Johnson and John Frederick Webster, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application September 9, 1950, Serial No. 184,102

Claims priority, application Great Britain October 28, 1949

5 Claims. (Cl. 18—54)

1. Process for the production of shaped articles from cellulose triacetate, which comprises extruding a solution of cellulose triacetate in a solvent mixture comprising 75–50% by volume of a chlorinated hydrocarbon selected from the group which consists of methylene chloride and ethylene chloride and 25–50% by volume of acetic acid into a coagulating bath which comprises as the main constituent an aliphatic alcohol containing at most 4 carbon atoms in the molecule.

2,657,974

SAND MOLD BINDERS

Robert Ruffin Cook, Springfield, and Arnold C. Hatch, Longmeadow, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 23, 1951, Serial No. 243,354

6 Claims. (Cl. 22—188)

1. A composition for forming sand molds and cores, comprising an unreacted intimate mixture of foundry sand, a solid, fusible thermosetting resin binder and a compound taken from the group consisting of tetra alkyl, tetra aralkyl and tetra aryl orthosilicates, said resin being present in amounts ranging from 5% to 10% by weight based on the weight of the sand, and said silicate being present in amounts ranging from 0.1% to 1.0% by weight based on the weight of the sand.

2,657,975

PREPARATION OF ALUMINUM BOROHYDRIDE

James B. Hinkamp, Birmingham, Mich., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 31, 1952, Serial No. 301,976

8 Claims. (Cl. 23—59)

1. A process for preparing aluminum borohydride comprising reacting an aluminum halide with an alkali metal borohydride in the presence of a minor amount of an ester of phosphoric acid.

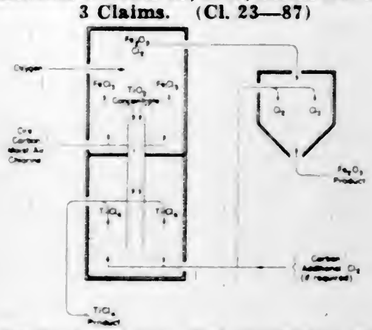
2,657,976

PROCESS FOR PRODUCING IRON OXIDE AND TITANIUM TETRACHLORIDE FROM TITANIFEROUS IRON ORES

Lancelot W. Rowe, Metuchen, and Rollin P. Smith, Westfield, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey

Application October 19, 1949, Serial No. 122,336

3 Claims. (Cl. 23—87)



1. Cyclical process for producing titanium tetrachloride and iron oxide from a titaniferous iron-containing raw material which comprises adding subdivided raw material and carbon to a chamber, introducing chlorine and moist air into said chamber to produce at elevated temperatures volatile ferric chloride substantially free from titanium tetrachloride and a titanium concentrate, said chlorine added in amount equal to substantially the theoretical amount to react with the iron values but not the titanium values, said moist air containing at least 0.0004 lb. of water per cubic foot of air used, separating said titanium concentrate from said volatilized ferric chloride and reacting substantially immediately, the separated volatilized ferric chloride with oxygen to produce ferric oxide and chlorine gas, separating said ferric oxide from the chlorine so produced and returning the chlorine so produced to react with the titanium values in the titanium concentrate to produce titanium tetrachloride, and collecting said titanium tetrachloride.

2,657,977

PROCESS FOR PREVENTING THE PHYSICAL DISINTEGRATION OF AMMONIUM NITRATE BY TEMPERATURE FLUCTUATIONS

Leonard A. Stengel and John W. Brodhacker, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application September 21, 1949, Serial No. 117,062

5 Claims. (Cl. 23—103)

1. A process for preventing the physical disintegration by temperature fluctuations of ammonium nitrate produced by the reaction of ammonia and nitric acid, which comprises adding and thoroughly mixing with said acid before said reaction sufficient quantities of sulfuric acid to give an ammonium nitrate product containing from about 0.25 to 5.0% of ammonium sulfate.

2,657,978

ALUMINA HYDRATE CRYSTALLIZATION

Martin A. Johnson, Baton Rouge, La., assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware

No Drawing. Application September 8, 1948, Serial No. 48,329

4 Claims. (Cl. 23—143)

1. In a process of crystallizing alumina hydrate from a body of caustic liquor supersaturated with respect to sodium aluminate, the improvement which comprises, adding a first quantity of alumina hydrate seed crystals to the liquor in an amount equal to from about 25 to not more than about 50% of the total quantity of seed employed on the said body of liquor, agitating the liquor containing the first quantity of seed for a period of time after addition of all of said first quantity of seed from about 30 to about 55% of the total crystallization period and before the addition of the balance of the total quantity of seed, whereby the alumina hydrate thus obtained is characterized by predominantly coarse crystals of calcination grade with a minimum of fines, and thereafter making a second addition to the body of the liquor of the balance of the alumina hydrate seed to increase the rate of precipitation of alumina hydrate in the form of a fraction substantially all of which comprises fine crystals of seed grade.

2,657,979

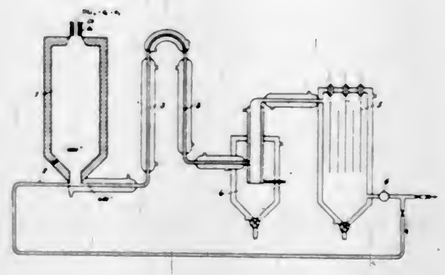
METHOD OF RECOVERING METALLIC OXIDES

Otto Saladin, Schweizerhalle, Waldemar Schornstein, Arlesheim, and Walter Frey, Basel, Switzerland, assignors to Saeurefabrik Schweizerhall, Schweizerhalle, Baselland, Switzerland, a corporate body of Switzerland

Application February 21, 1950, Serial No. 145,498

Claims priority, application Switzerland March 5, 1949

4 Claims. (Cl. 23—202)



4. In the production of titanium dioxide pigments by the decomposition and oxidation of titanium tetrachloride in the presence of an excess of oxygen at temperatures above 800° C., whereby a chlorine and oxygen containing hot gaseous suspension of titanium dioxide is formed, the process which comprises first rapidly cooling said suspension to a temperature not exceeding 600° C. by mixing with said suspension a cooled gaseous product previously formed by such decomposition and oxidation and substantially freed of titanium dioxide, then further cooling said suspension in at least one cooling zone by abstracting heat from it therein through externally cooled gas impervious zone bounding walls composed predominantly of metallic aluminum and bearing a thin integral film of aluminum oxide over their internal surfaces, and then finally cooling said suspension and precipitating titanium dioxide from it in a precipitating zone bounded by externally cooled gas impervious walls composed predominantly of metallic aluminum and bearing a thin integral film of aluminum oxide over their internal surfaces.

2,657,980

PRODUCTION OF HYDROGEN PEROXIDE

Jerome W. Sprauer, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 5, 1949, Serial No. 125,848

12 Claims. (Cl. 23—207)

1. In a process for the production of hydrogen peroxide wherein an alkylated anthraquinone is hydrogenated in solution by means of hydrogen in the presence of a hydrogenation catalyst to yield an alkylated anthrahydroquinone, the latter is oxidized to produce hydrogen peroxide and to regenerate said anthraquinone and said regenerated anthraquinone is recycled to the hydrogenation stage, the improvement which comprises employing as the hydrogenation catalyst metallic palladium supported on activated alumina.

2,657,981

METHOD OF ETCHING AND POLISHING ALUMINUM

Virginia Terhune, East Cleveland, Ohio, assignor to The Victoreen Instrument Company, Cleveland, Ohio

No Drawing. Application January 31, 1950, Serial No. 141,602

6 Claims. (Cl. 41—42)

1. A method of treating aluminum comprising immersing the metal in a hot bath of an alkaline solution containing a dispersion of a copper bearing material, the temperature of said bath being maintained near its boiling point during the treatment.

2,657,982

SYNERGISTIC ANTIOXIDANT COMPOSITION

Eugene F. Hill and Margaret L. Welp, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 24, 1949, Serial No. 135,044

13 Claims. (Cl. 44—63)

1. A synergistic antioxidant composition effective in inhibiting oxidation in oxygen-sensitive organic materials, said composition consisting essentially of a lower alkyl-p-phenylene diamine and a sulfur compound selected from the group consisting of alkyl mercaptans containing from 4 to 12 carbon atoms, furfuryl mercaptan, the lower alkyl esters of thioglycolic acid, 2-mercapto imidazolidine and lower alkyl 2-mercapto imidazolidines, said sulfur compound being present in amount by weight between about 25 per cent and about 50 per cent of said synergistic antioxidant compound.

2,657,983

SYNERGISTIC STABILIZING COMPOSITIONS

Eugene F. Hill and Margaret L. Osip, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 18, 1952, Serial No. 277,336

16 Claims. (Cl. 44—70)

2. A synergistic antioxidant composition effective in inhibiting oxidation in oxygen-sensitive organic materials consisting essentially of between about 30 and 100 parts by weight of alkyl thioglycolate and about 100 parts by weight of an aminophenol.

2,657,984

FUEL OILS

Charles Henry Braithwaite, Jr., Wood River, and George Ambrose Martin and Reid Edward Sutton, East Alton, Ill., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 20, 1950, Serial No. 191,332

11 Claims. (Cl. 44—71)

1. A distillate fuel oil having an initial pour-point of at least about 10° F. containing dissolved therein a minor but effective pour-point depressing amount of a metal-free compound having the formula

wherein R is an alkyl radical, said compound having a solubility greater than about 0.001 per cent by weight in said fuel oil.

2,657,985

SATURATED HYDROCARBON COMPOSITIONS

Henry G. Schutze and Harry E. Cier, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Original application December 29, 1949, Serial No. 135,843. Divided and this application September 25, 1950, Serial No. 186,688

2 Claims. (Cl. 44—80)

1. A composition adapted for use as a motor fuel consisting of 2,2,3-trimethylbutane, 2,2,3,3-tetramethylbutane, and 2,2,3,3,4 - pentamethylpentane in the approximate ratio of 2:4:2.

2,657,986

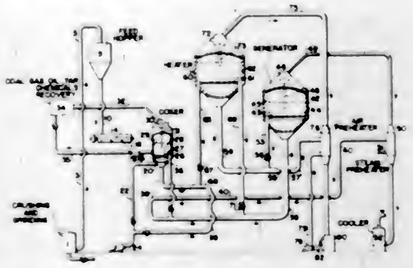
PRODUCTION OF WATER GAS

Frank T. Barr, Summit, and Karl J. Nelson, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application August 15, 1946, Serial No. 690,816

3 Claims. (Cl. 48—206)

1. The process of producing gas mixtures containing carbon monoxide and hydrogen from solid carbonaceous materials and steam which comprises contacting steam in a gasification zone at gasification temperatures with a dense ebullient mass of finely divided carbonaceous solids fluidized by an upwardly flowing gas to resemble a boiling liquid having a well defined upper level, said carbonaceous solids being low temperature carbonization coke formed by coking carbonaceous material in a coking zone at temperatures within the range of from about 600°–900° F. to produce a coke having an oxidation reactivity of about T_{15}=200°–210° C. and T_{75}=250°–260° C. to produce carbon monoxide and hydrogen when treated with steam at gasification temperatures, withdrawing coke from said coking zone and passing it directly to said gasification zone, withdrawing solid carbonaceous gasification residue from said gasification zone and passing it to a combustion zone, subjecting said solid carbonaceous gasification residue to combustion with



an oxidizing gas in said combustion zone to generate heat and supplying heat of combustion to said gasification zone as sensible heat of finely divided combustion residue returned to said mass by withdrawing hot carbonaceous solids from said combustion zone and passing them with said carbonaceous solids withdrawn from said coking zone to said gasification zone.

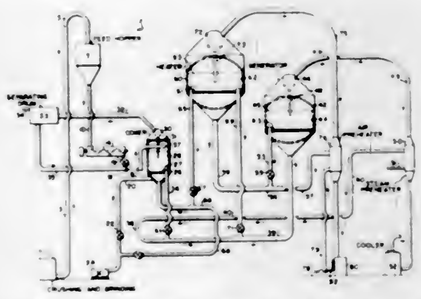
2,657,987

PRODUCTION OF WATER GAS

Frank T. Barr, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application October 12, 1946, Serial No. 702,992

4 Claims. (Cl. 48—206)



1. The process of producing gas mixtures containing carbon monoxide and hydrogen which comprises subjecting carbonizable materials to a low temperature carbonization in the form of a dense turbulent bed of finely divided carbonaceous solids fluidized by an upwardly flowing gas in a carbonization zone at temperatures around 1000° F. conducive to substantial cracking of carbonization products boiling above about 700° F. to produce volatile carbonization products and highly reactive coke having an activity of about T_{15}=200° C. and about T_{25}=245° C., separating tar fractions boiling above about 700°F. from the volatile products, returning said fractions to said carbonization zone substantially completely in the liquid state to be converted therein into lower boiling volatile products and highly reactive coke of said activity, and contacting said highly reactive coke directly with a gasifying medium consisting essentially of steam in a separate gasification zone at gasification conditions adapted to produce said gas mixtures.

2,657,988

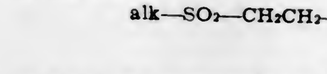
1[2 - (ALKYLSULFONYL)ETHYL] PYRIDINIUM HALIDES AND THEIR USE AS HERBICIDES

John K. Fincke, San Jose, Calif., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 20, 1952, Serial No. 294,711

14 Claims. (Cl. 71—2.5)

11. A herbicidal composition comprising an inert carrier and, in a quantity which is injurious to plant life, a quaternary nitrogen compound having the formula



in which alk represents an alkyl radical of from 8 to 20 carbon atoms, X is selected from the class consisting of chlorine and bromine and N ⋮ D represents a heterocyclic compound of the pyridine series consisting of pyridine, quinoline, isoquinoline, C-linked chlorine derivatives thereof containing from 1 to 2 chlorine substituents, and C-linked alkyl homologues thereof containing from 1 to 3 C-alkyl substituents, the number of carbon atoms in each of said C-alkyl substituents being from 1 to 2.

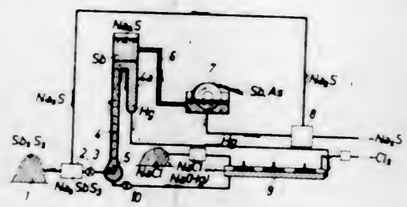
2,657,989

SEPARATION OF METALS IN POWDER FORM FROM THEIR SALT SOLUTIONS

Othmar Ruthner, Vienna, Austria

Application August 17, 1950, Serial No. 179,909

1 Claim. (Cl. 75—69)



Method of recovering from ores a metal selected from the group consisting of antimony and arsenic, and sulfur, contained in the ore used, in the form of sodium sulfide, comprising dissolving the ore in a boiling solution of sodium sulfide, pressing the sulfur-alkaline solution obtained through sodium amalgam, allowing the metal to precipitate and sodium sulfide to form, and treating new ore with the sodium sulfide formed.

2,657,990

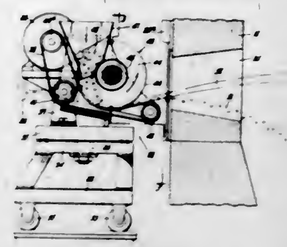
FEEDING FURNACES

Charles R. Kuzell, Douglas, Ariz., assignor to Phelps Dodge Corporation, New York, N. Y., a corporation of New York

Application March 29, 1949, Serial No. 84,166

9 Claims. (Cl. 75—74)

7. A method of operating a copper smelting reverberatory furnace which comprises forming a molten bath of matte and slag extending substantially the full width of the furnace, establishing a layer of solid materials to be smelted floating on or near the surface and covering a substantial area of said molten bath, and maintaining said solid layer by propelling laterally into the furnace at least one ribbon-like stream of moist copper concentrates unmixed with air so that the stream strikes the surface of said molten bath or said layer at a low angle to avoid



plunging moist solids below the surface of the bath and into contact with the molten matte.

2,657,991

METHOD OF INCORPORATING POLYCHLOROPRENE IN PAPER

Robert H. Walsh, Woodstown, N. J., and William W. Pockman, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 27, 1948, Serial No. 62,414

1 Claim. (Cl. 92—21)

In the process of incorporating a polychloroprene elastomer latex, in which the particle charge is more negative than −100 millivolts, into an aqueous suspension of a cellulose paper pulp in which the dispersed paper fibers carry a negative charge for modifying the physical characteristics of the paper to be prepared therefrom, the steps which comprise diluting the latex to a solids concentration of from 4% to 10%, stabilizing the latex by the addition of the sodium salt of a sulfonated dinaphthylmethane thereto and adding aluminum sulfate in an amount sufficient to bring the electrical charge on the polychloroprene elastomer latex particles to within 50 millivolts of the charge on the paper pulp fibers, adding the polychloroprene elastomer latex to the aqueous dispersion of the cellulose paper pulp, coagulating the mixed dispersion, and forming a paper sheet therefrom.

2,657,992

MANGANOUS FERROUS PHOSPHATE COMPOSITION

Willard H. Woodstock, Crete, Ill., assignor to Victor Chemical Works, a corporation of Illinois

No Drawing. Application April 13, 1950, Serial No. 155,779

8 Claims. (Cl. 99—2)

1. As a new composition of matter the reaction product of ferrophosphorus and manganese dioxide wherein the mol ratio of manganese to iron is within the range of 5 to 8 and 11 to 4.

2,657,993

MANUFACTURE OF CHEESE

Chaim Arkin, Cape Town, Cape of Good Hope Province, Union of South Africa

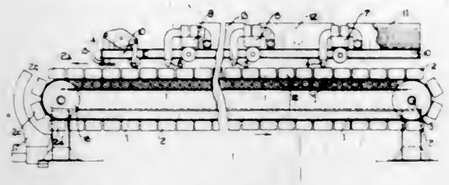
Application June 21, 1950, Serial No. 169,483

Claims priority, application Union of South Africa June 24, 1949

12 Claims. (Cl. 99—116)

1. A continuous method for the manufacture of cheese by inoculation of milk with a starter, coagulation, separation of the whey from the curd and curing, which comprises inoculating milk fluid with a measured amount of starter,

coagulating the fluid with a measured amount of coagulant, sub-dividing the coagulated mass to release and drain the whey from the curd, forcibly expressing further whey from the curd,



partially drying the resultant curd product at a controlled elevated temperature, homogenizing the mass into uniform consistency and shaping the cheese mass into forms suitable for maturing.

2,657,994
CHEESE MAKING METHOD
Raymond Miollis, Maywood, Ill., assignor to The Borden Company, a corporation of New Jersey
Original application March 19, 1949, Serial No. 82,459. Divided and this application July 5, 1951, Serial No. 235,320
5 Claims. (Cl. 99—116)



1. In a method of making cheese in a vat, the steps comprising: removing the curds from a space adjacent one end of said vat; elevating the curds above the bottom of the vat by bringing a scraper member against the curds in said space, bringing at least one platform member into said space adjacent said scraper member but closer to said end and moving said scraper member and platform member toward the other end of said vat to cause the curds to slide up across the surface of said scraper member onto said platform; and draining the whey into the space therebelow.

2,657,995
PROCESS FOR PREPARING HARD BUTTER FROM HYDROGENATED COCONUT OIL AND SIMILAR OILS
John E. Blum, El Cerrito, Calif., assignor to The Glidden Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application November 29, 1949, Serial No. 130,085
8 Claims. (Cl. 99—118)

1. A process for preparing hard butter from oil of the coconut oil group, said process comprising the following steps in which steps (1) and (2) may be taken in any order ahead of step (3): (1) by vacuum distillation at a pressure below about one millimeter of mercury, removing from a mass of oil composed of at least one oil of the coconut oil group an initial distillate composed essentially of fatty glycerides until the remaining residue has a saponification number between about 229 and 241 when substantially free of unsaturation in the fatty acid radicals of the glycerides thereof; (2) by hydrogenation, substantially eliminating unsaturation from the fatty acid radicals of at least the glycerides in said residue; and (3) preparing hard butter from at least a portion of the substantially unsaturation-free residue.

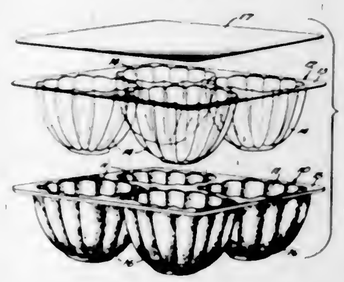
2,657,996
GELATIN COMPOSITION
Llewellyn Ray Ferguson, Stamford, Conn., assignor to General Foods Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 5, 1952, Serial No. 270,100
7 Claims. (Cl. 99—130)

1. An edible jelly composition containing gelatin and adapted to set to a jelly when dissolved in water, said composition containing adipic acid as an acid ingredient.

2,657,997
STABILIZED CITRUS OIL AND METHOD OF PRODUCING THE SAME
Irving I. Rusoff, East Orange, and James Lincoln Common, Rutherford, N. J., assignors to General Foods Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 16, 1951, Serial No. 237,058
20 Claims. (Cl. 99—150)

1. A citrus oil in which butylated hydroxyanisole has been dissolved.

2,657,998
SOFT PLASTIC FOOD PACKAGE
Leo Peters, Evanston, Ill.
Application May 4, 1950, Serial No. 160,048
5 Claims. (Cl. 99—171)



1. A soft, plastic food package, comprising a resilient container formed sufficiently rigid to hold its shape but being manipulable in the hands for flexing local regions thereof, said container having side walls provided with channels extending from the lower portion of the container upwardly to the upper portion thereof, a high tensile strength liner of plastic material lying within and bonded to said container, and a plastic food molded by and substantially filling a portion of said container and conforming to the contour of the walls of said container and said liner, said liner conforming throughout to the channeled walls of said container so that the flexing of said walls produces a rippling of said liner relative to said walls and said plastic food, whereby upon inversion of said container and the local flexing of said walls with a rolling action, said channels are narrowed and widened to peel away the liner from the food body in said channels and admit air therebetween for releasing the food body with the mold lines thereof unbroken.

2,657,999
METHOD OF PREPARING SOUP
Albert C. Rauch, Blue Island, Ill.
No Drawing. Application March 6, 1950, Serial No. 148,019
5 Claims. (Cl. 99—204)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In the process of preparing precooked legume soup bases, the steps of hammering a soaked and cooked legume through a perforated screen to provide legume particles having a diameter of not more than about ⅛ inch, and dehydrating the legume particles to form light, porous masses having a moisture content of from about 0.84% to about 7%.

2,658,000
SOLUTION FOR TREATMENT OF FIBROUS CELLULOSIC MATERIALS
William F. Sullivan, Roseland, and Irene M. Panik, Elizabeth, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 31, 1951, Serial No. 229,272
5 Claims. (Cl. 106—15)

1. A solution for treatment of fibrous cellulosic materials to impart fire resistance thereto comprising an aqueous solution of titanium chloride acylate, said acylate selected from the group consisting of formate, acetate and propionate, the titanium of said titanium chloride acylate being present in concentration from 40 to 150 grams per liter, the acylate group of said titanium chloride acylate being present in amount from 1.25 to 3.70 parts for each part of titanium present, the chloride of said titanium chloride acylate being present from 0.75 to 2.25 parts for each part of titanium present.

2,658,001
LIQUID GLUE COMPOSITION
Harland H. Young, Western Springs, and Frank L. De Beukelaer, Chicago, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application September 26, 1950, Serial No. 186,919
14 Claims. (Cl. 106—135)

1. A color stabilized liquid animal glue composition comprising an aqueous solution of an animal glue having a thiocyanate compound as a liquefying agent therefor with a water-soluble complex hydrate of phosphorous pentoxide in sufficient amount to be effective as a repressant against discoloration normally occurring when a liquid animal glue composition containing a thiocyanate compound is contaminated with iron, said stabilized glue composition having a maximum pH of about 8.

2,658,002
METHOD OF FORMING MULTICOLOR COATING COMPOSITION
Melvin Schwefsky, Union, N. J., assignor to United Lacquer Mfg. Corp., Linden, N. J., a corporation
No Drawing. Application August 2, 1950, Serial No. 177,340
4 Claims. (Cl. 106—170)

2. The method of forming a multicolor coating composition comprising providing a plurality of differently colored lacquer portions, mixing each of said portions with an aqueous suspension of a protective colloid at an elevated temperature, diluting each of said mixtures with water and combining said diluted mixtures.

2,658,003
COATING COMPOSITION HAVING ACCELERATED DRYING TIME AND THE PROCESS OF ACCELERATING SAME
Louis E. Klein, St. Louis, Mo., and August R. Hempel, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 23, 1951, Serial No. 233,252
16 Claims. (Cl. 106—264)

1. A coating composition comprising a drying vehicle and an effective amount up to about 2 per cent by weight of metal, based on the weight of the drying vehicle solids, of a drier comprising a polyvalent drier metal salt of the monoalkyl esters of diisobutenylsuccinic acid and triisobutenylsuccinic acid, wherein the alkyl group contains from 1 to 4 carbon atoms, inclusive.

2,658,004
LAST SLIP FOR REMOVING SHOES FROM LASTS
John C. Eldridge, Bridgewater, and Francis A. Flaherty, Boston, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
No Drawing. Application March 11, 1950, Serial No. 149,217
4 Claims. (Cl. 106—271)

1. A last slip adapted to form, when applied to a last and dried, a pulpy coating having low resistance to shear, said last slip comprising a thick, brushable fluid, high solids content blend of a dispersion of finely divided mica in an aqueous medium and an aqueous emulsion of a water-insoluble wax melting in the range of 45° C. to 70° C., said mica and wax being present in the ratio of from 4.5 to 7.0 parts by weight of mica to 2 parts by weight of wax.

2,658,005
PITCH MASTIC FOR FLOORING
Colin Buist, London, England, assignor to Coalite and Chemical Products Limited, a British company
No Drawing. Application March 18, 1948, Serial No. 15,719
Claims priority, application Great Britain March 19, 1947
4 Claims. (Cl. 106—280)

2. A product comprising a mastic containing a coarse mineral aggregate, a fine mineral aggregate, a coal tar pitch containing less than 10% of free carbon and a fluxing oil derived from an oil fraction boiling in the range 200° C.–330° C. produced during the low temperature carbonisation of coal, the fluxing oil having an initial boiling point above 300° C. and being substantially free from tar acids and from bases.

2,658,006
MEASURING TAPE
Allan R. A. Beeber, Matawan, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application May 11, 1949, Serial No. 92,653
1 Claim. (Cl. 117—12)

The method for making measuring tapes comprising the steps of blackening the surface of a

steel strip with an alkaline nitrite solution to deposit black reaction products of the steel on the surface of the strip, applying an adherent coating of an organic resinous imprinting composition to selected areas of said blackened surface by means of a printing machine to form accurate indicia on said surface, treating said surface with dilute nitric acid to remove said black reaction products from those areas of the surface not covered by said organic resinous imprinting com-



position exposing a steel surface of diffuse reflection characteristics in those areas, depositing a layer of aluminum in high vacuum onto said exposed steel surface, the adherent coating of organic resinous imprinting composition serving to prevent the disposition of aluminum on the selected coated colored indicia areas and then treating said strip with an organic solvent to remove said resinous imprinting composition and any overlying aluminum exposing the colored indicia areas against the aluminum background of diffuse reflecting characteristics.

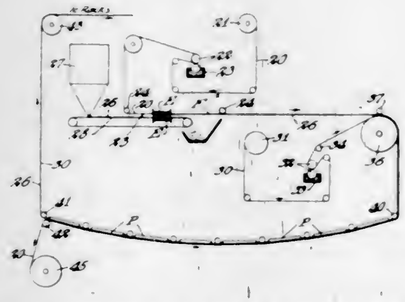
2,658,007

TRANSFER COATING

Bert S. Cross, Bloomington Township, Hennepin County, and George P. Netherly, Afton Township, Washington County, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Original application August 10, 1948, Serial No. 43,528. Divided and this application June 22, 1950, Serial No. 169,756

8 Claims. (Cl. 117—17)



1. In a method of making a particulate coated sheet that comprises a plastic layer which serves both as a binder for the particles and as a backing for the sheet as a whole, the steps comprising coating a sheeted temporary support with a layer of temporary adhesive, depositing particles thereon so that they are substantially all held by the adhesive with their adhesive-contacting extremities collectively conforming to the contour of the adhesive coated surface of the support and with their opposite extremities extending outwardly from the adhesive coated support, applying a sizing coat to the particle-coated side of the sheeted temporary support, applying a layer of a plastic material in viscous, plastic state over the sizing coat, positioning the support so that the desired contour of the adhesive coated support is maintained and maintaining the support in said position until the sizing and the plastic material have set sufficiently to hold the particles fixed upon removal of the support and adhesive, and then removing the support and adhesive, leaving the particles held by the plastic layer and the sizing with the extremities of the particles which originally contacted and were embedded in the said temporary adhesive exposed to form a surface having a contour complementary to that of the support.

2,658,008

METHOD OF TREATING VEHICLE BODIES AND CHASSIS

Gethin Williams, Oxford, and Alexander Proud Fowler, London, England, assignors to Carrier Engineering Company Limited, London, England, a British company

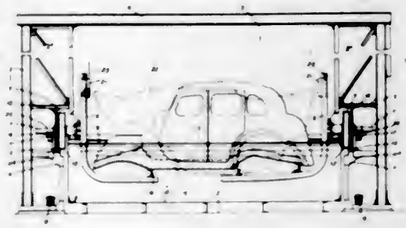
Application February 17, 1948, Serial No. 8,835

In Great Britain January 6, 1944

Section 1, Public Law 690, August 8, 1946

Patent expires January 6, 1964

3 Claims. (Cl. 117—67)



1. A method of treating the surfaces of a sheet metal vehicle body shell having window and other openings, which comprises moving the body shell along a path, dipping the lower portion of said body shell in a treating liquid bath as it is moved along said path, rotating the moving body shell about an axis extending substantially longitudinally of the body shell, supporting said rotating body shell during at least a portion of the dipping of the body shell into the liquid bath with said axis of rotation substantially parallel with the surface of the bath when the liquid therein is quiescent to dip the complete circumference of the body shell and to flow the liquid through the shell openings and over the inner surface of the body shell and into all cavities to treat both the complete inner and outer surfaces, removing said body shell from the liquid bath and continuing said rotation of said body shell after it is removed from the liquid bath to cause the liquid adhering to the body shell to flow smoothly over the surfaces thereof.

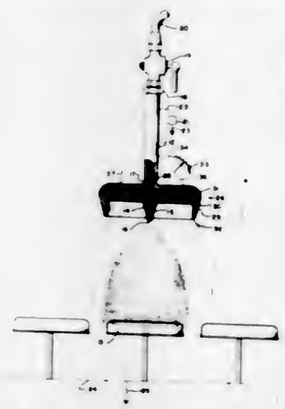
2,658,009

ELECTROSTATIC COATING METHOD AND APPARATUS

Edwin M. Ransburg, Indianapolis, Ind., assignor to Ransburg Electro-Coating Corp., Indianapolis, Ind., a corporation of Indiana

Application May 13, 1948, Serial No. 26,867

10 Claims. (Cl. 117—93)



2. In the deposition of liquid material onto a surface, the steps of electrostatically atomizing liquid material from a source thereof, electrostatically projecting the atomized liquid material in the form of a jet onto the surface, and maintaining a corona discharge surrounding and spaced from said source but sufficiently close to control the jet of atomized liquid material.

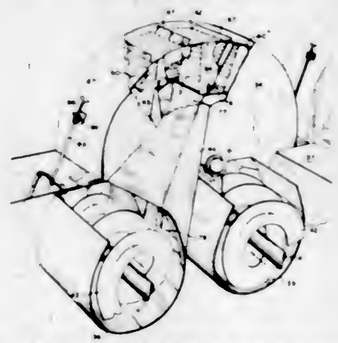
2,658,010

DOUBLE ROTARY DIFFUSION BATTERY

Harold F. Silver, Denver, Colo.

Application February 7, 1950, Serial No. 142,910

11 Claims. (Cl. 127—6)



10. In continuous diffusion apparatus in which divided solids material and a liquid are passed progressively through a series of cells in generally countercurrent flow with concurrent flow in each cell, the combination comprising: a plurality of parallel horizontally disposed elongated cells, each having an inlet and an outlet end; conveyor means in said cells for moving solids material from their inlet to their outlet ends; a compartment at the outlet end of each said cell; a foraminous-bucket-carrying transfer wheel mounted for rotation about a horizontal axis in each said compartment for receiving, elevating and draining, and transferring solids material to an adjacent cell, the axis of rotation of each said wheel being above the longitudinal axis of its corresponding cell and the diameter of each said wheel being greater than the depth of its said corresponding cell; a vertically adjustable weir in each said compartment positioned closely adjacent the periphery of the said wheel therein for overflow of drainage liquid over said weir in its passage to another adjacent cell; means for separately adjusting said weirs; pumping plates on each said wheel for elevating drainage liquid over the corresponding said weir; and means for conducting liquid flowing over each said weir to said other adjacent cell.

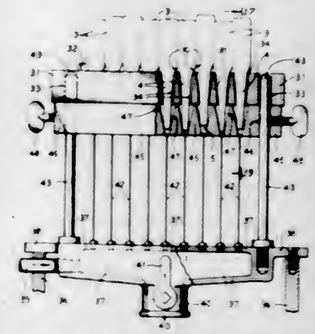
2,658,011

APPARATUS FOR AND METHOD OF HANDLING AND WASHING AMPOULES AND VIALS IN PACKED-LOTS

Rudolph N. Price, Manhasset, N. Y.

Application January 29, 1947, Serial No. 725,126

33 Claims. (Cl. 134—22)



1. A method of handling open-mouth containers of the ampul and vial types for cleansing them, such containers being packed as unified-lots and in upright contiguous-body relation within original-shipping packages, comprising manually removing a said unified-lot of containers in inverted position from a said original-shipping package while maintaining said contiguous-body relation, then subjecting the unified-lot of removed containers to a cleansing treatment while still inverted and in said contiguous-body relation, and removing the cleansed containers from the cleansing treatment while still inverted as a unified-lot and in said contiguous-body relation to deter recontamination all without hand contact at any time.

11. An ampul-handling device for removing an original-shipping box from its lot of ampuls for washing them, the depth of the shipping box being greater than the height of the ampuls packed in contiguous-body relation and in rows between one-way parallel dividers within said box, comprising plate means provided with rows of apertures adapted to coaxially register with the ampuls and rows thereof; a box-centering guide on the plate means to receive the open top of the box manually placed in engagement therewith, and without the plate means initially engaging the ampuls, to position the box and plate means in the aforesaid registering relation; and the box and plate means being held together as a unit by the box-centering guide and an operator, by which the box and plate means may be inverted manually as a unit, to transfer the ampuls by gravity as a unified-lot in situ from the shipping box and hence in contiguous-body relation into the apertures of the plate means.

2,658,012

METHOD OF REELING RODS

Alexander W. Strachan, Monongahela, Pa., assignor to United States Steel Corporation, a corporation of New Jersey

Application March 13, 1950, Serial No. 149,351
2 Claims. (Cl. 148—21.55)



1. The method of reeling hot rolled steel rods comprising passing the hot rolled rod from a rolling mill to a reel, wrapping at least one complete convolution of the forward end of the hot rod around the reel in order to secure the rod on the reel without quenching it, and quenching the remainder of the rod before reeling it.

2,658,013

FLUX FOR HARD SOLDERING OF TUNGSTEN

Wilson H. Hannahs, Westbury, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

Application June 28, 1949, Serial No. 101,750
1 Claim. (Cl. 148—24)

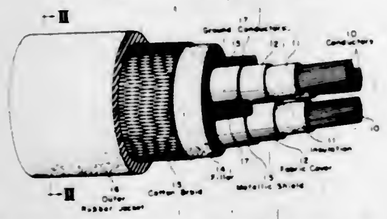
A flux suitable for the hard soldering of tungsten consisting essentially of a mixture of approximately 11 parts by weight of potassium tetraborate, 47 parts by weight of boric acid, 35 parts by weight of water and 7 parts by weight of powdered iron.

2,658,014

METHOD OF MAKING ELECTRICAL CABLE

James J. Morrison, Worcester, Mass., assignor to United States Steel Corporation, a corporation of New Jersey

Original application February 26, 1946, Serial No. 650,348. Divided and this application January 25, 1949, Serial No. 72,574
1 Claim. (Cl. 154—2.24)



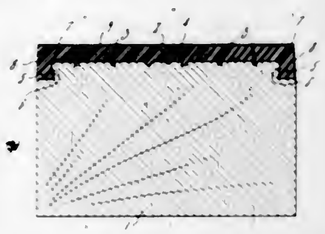
In the manufacture of cables for the transmission of electric current, the method which comprises assembling a plurality of insulated conductors so as to have valleys between them, extruding an inner jacket and filler of a vulcanizable elastomer completely around and into contact with the assembled conductors, such elastomer containing a sufficient quantity of a blowing agent to cause the elastomer to expand in volume from 25 to 100% when vulcanized in place around the cable, extruding an outer jacket forming body around the inner jacket and filler, the outer jacket forming body being composed of a vulcanizable elastomer of such composition that when vulcanized it forms a dense, tough material, said outer jacket having an inner diameter greater than the outer diameter of said assembled conductors, and then subjecting the cable to heat to cause the first named elastomer to expand inwardly into said valleys and outwardly against said outer jacket to expand the same and to vulcanize the inner jacket, filler and outer jacket and to bond them directly together throughout the inner periphery of the outer jacket.

2,658,015

PROTECTED WOOD STRUCTURE AND METHOD OF MAKING SAME

George M. Williams, New Haven, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application August 15, 1951, Serial No. 242,015
2 Claims. (Cl. 154—132)



2. A method of protecting a body of wood against destructive influences which comprises placing directly in contact with a face of said body of wood which is to be protected an uncured solvent-free solid mixture consisting essentially of a cashew nut shell oil-modified lower molecular weight phenol-formaldehyde resin which is soluble and fusible but convertible to insoluble, infusible form by the action of heat and a methylene-yielding hardening agent, a methylene-yielding hardening agent for said resin in amount sufficient to advance the same to insoluble, infusible form, a rubbery butadiene-acrylonitrile copolymer compatible with said resin, and diatomaceous earth, said resin and said copolymer being present in proportions of from 30 to 70% by weight of said resin and correspondingly from 70 to 30% by weight of said copolymer, said percentages being based on the sum of said resin and said copolymer, said diatomaceous earth being present in a proportion of from 30 to 55% by weight based on the sum of said resin and said copolymer, and pressing said mixture directly against said face while subjecting said mixture to heat, the degree of pressure and heat being such as to convert said mixture to a continuous facing, cure said mixture and effect tenacious adhesion thereof to said face.

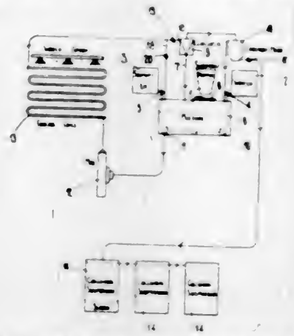
2,658,016

PRODUCTION OF FINE AQUEOUS DISPERSION OF SULFUR

Laurie Oakley Brown, Oamaru, Otago, and Tasman Joseph McKee, Port Mapua, Nelson, New Zealand

Application August 31, 1948, Serial No. 47,084
4 Claims. (Cl. 167—20)

1. The method for continuous production of finely divided sulfur as a concentrate in liquid having a particle size averaging less than about 5 microns from coarse particles averaging greater than 50 microns, comprising continuously forming a thick slurry of the coarse sulfur solids in water, mechanically disintegrating said slurry between mechanically working surfaces of a mill disposed with a gap having a clearance of from about .03 to .2 inch whereby a substantial portion of the particles are broken to a particle size of less than about 5 microns, classifying the ground slurry to remove a fraction having an average particle size of less than 5 microns, and recycling the larger particle size slurry residue



together with as much larger particle size sulfur solids having a particle size exceeding about 50 microns as was removed as fine particle size slurry in said classification to said mill for a further comminution together with additional liquid suspending medium.

2,658,017

INSECTICIDAL COMPOSITIONS CONTAINING 1,2-DICHLORO - 4(α,B - DICHLOROETHYL) - CYCLOHEXANE AND METHOD OF USING THE SAME

Edwin G. Marhofer, Fredonia, Kans., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application November 26, 1948, Serial No. 62,217
8 Claims. (Cl. 167—30)

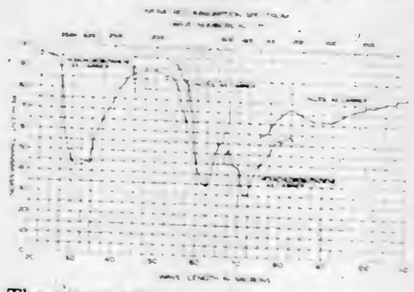
1. An insecticidal solution comprising an active insecticidal toxicant selected from the group consisting of 2,2-bis(parachlorophenyl)-1,1,1-trichloroethane, the gamma isomer of hexachlorocyclohexane, chlorinated camphene, 2,2-bis(parachlorophenyl) - 1,1 - dichloroethane, p-tertiary-amylphenol, and 2,2-bis(paramethoxyphenyl) - 1,1,1-trichloroethane and 1,2-dichloro-4-(α,B-dichloroethyl)cyclohexane.

2,658,018

SYNNEMATIN AND PROCESS OF PRODUCING THE SAME

Russel Y. Gottshall and John M. Roberts, Lansing, and Lucile M. Portwood, Okemos, Mich., assignors to the State of Michigan

Application October 6, 1950, Serial No. 188,862
3 Claims. (Cl. 167—65)



3. The composition resulting from the growth of *Cephalosporium salmosynnematum* (NRRL 2271) in a culture medium, said composition being characterized by its ability to inhibit the growth of *Brucella abortus*, *Brucella melitensis*, *Brucella suis*, *Corynebacterium diphtheriae*, *Diplococcus pneumoniae* type III, *Micrococcus pyrogenes* var. *aureous*, *Salmonella enteritidis*, *Salmonella paratyphi*, *Salmonella pullorum*, *Salmonella schottmuller*, *Salmonella typhimurium*, and *Samonella typhosa*, the active ingredients in said composition being soluble in water, methanol, 75% acetone and 50% ethanol and insoluble in acetone and diethyl ether; said composition being further characterized by being unstable in culture filtrates at pH 2 at room temperature and being relatively stable for 24 hours at pH values of 5, 7.5 and 9 at room temperature, said composition exhibiting characteristic absorption bands in the infra-red region of the spectrum (*a*) when suspended in heavy paraffin oil at the following frequencies expressed in reciprocal centimeters: 1600 and 1140–1080; and (*b*) when suspended in hexachlorobutadiene at the following frequencies expressed in reciprocal centimeters: 3330–2900 and 1400–1380.

2,658,019

PROCESS OF EXTRACTING BIOLOGICALLY ACTIVE MATERIAL

Sylvan E. Moolten, Highland Park, N. J., assignor to American Cholesterol Products, Inc., a corporation of New York

No Drawing. Application April 24, 1948, Serial No. 23,137
3 Claims. (Cl. 167—74)

1. A process for preparing a biologically-active material adapted to decrease the blood platelet count of a living animal when injected thereinto which comprises extracting animal spleen with acetone, separating the liquid extract thus produced from insolubles, distilling off the acetone to produce a residue, extracting said residue with ether to form an ether solution, separating the ether solution from ether-insoluble matter, evaporating the ethereal solvent to produce a residue, shaking such residue with aqueous caustic soda, neutralizing the residual free alkali with acid and then extracting the same with ether to produce a second ether solution, separating the second ether solution from ether-insoluble matter, evaporating the second ether solution to dryness, extracting the residue thus produced with acetone, separating the acetone-soluble material from insolubles, drying the acetone extract thus formed, dissolving it in methanol and evaporating the methanol solution slowly at room temperature to produce crystalline thrombocytopen.

2,658,020

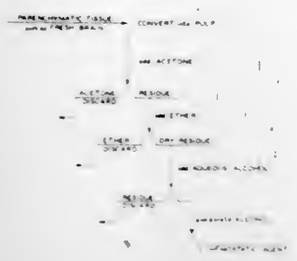
METHOD OF PREPARING A HEMOSTATIC AGENT

Adrien Schoch, Berne, Switzerland, assignor to Gibone Trust, Vaduz, Liechtenstein

Application June 8, 1949, Serial No. 97,920
Claims priority, application Switzerland June 11, 1948
5 Claims. (Cl. 167—74)

1. A process for producing a hemostatic agent suitable for intravenous injection comprising extracting the aqueous content of the pulp of mammalian organ selected from the group consisting of brain, liver, lung, and kidney with acetone, separating the acetone from said pulp, extracting fat in the mammalian organ with ethyl ether, separating the ethyl ether from the organ substance, agitating the extracted organ substance with 40 to 70 percent aqueous ethanol to form a

solution of the hemostatic agent, separating the aqueous alcohol solution from undissolved sub-



stances, and evaporating off the alcohol to provide an aqueous solution of the active hemostat.

2,658,021

SINGLE TISSUE CELL CULTURING PROCEDURE

Wilton Robinson Earle, Burtonsville, Md., and Katherine Koontz Sanford, Washington, D. C., assignors to the United States of America as represented by the Administrator of the Federal Security Agency

No Drawing. Application November 30, 1949, Serial No. 130,362

1 Claim. (Cl. 167—84.5)

(Granted under Title 35, U. S. Code (1952), sec. 266)

A process for the artuncial production of a massive culture of biologically complete tissue cells descended from a single ancestor, which comprises isolating a single living biologically complete tissue cell which reproduces by cell division, planting the same in a restricted body of nutrient solution of about 50 to 500 volumes, based upon the volume of said isolated cell, said nutrient solution having been previously conditioned by the growth therein of a large mass of similar tissue cells, said restricted body of nutrient solution being directly connected with a massive body of similarly conditioned nutrient solution, and incubating said connected bodies of nutrient solutions, whereby cell proliferation is initiated in the restricted body and thereafter continues in the massive body.

2,658,022

BIO-OXIDATION OF STEROIDS

William J. Haines and Marvin H. Kuizenga, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application August 19, 1950, Serial No. 180,508

22 Claims. (Cl. 195—51)

1. Process for the bio-oxidative conversion of adrenal cortical steriods which are unoxygenated in the eleven position to 11-oxygenated adrenal cortical steroids which includes the step of aerobically incubating an adrenal cortical steroid which is unoxygenated in the eleven position of the steroid nucleus with previously frozen comminuted mammalian adrenal gland tissue, in a substantially aqueous medium and separating the 11-oxygenated adrenal cortical steroid from the incubation reaction mixture.

2,658,023

OXYGENATION OF STEROIDS

Gilbert M. Shull, Roslyn Heights, Donald A. Kita, Jackson Heights, and Jacob W. Davisson, Levittown, N. Y., assignors to Chas. Pfizer & Co., Inc., Brooklyn, N. Y., a corporation of Delaware

No Drawing. Application April 21, 1953, Serial No. 350,218

13 Claims. (Cl. 195—51)

1. A process for the 11-β-hydroxylation of a steroid compound, which comprises contacting said steroid compound with the oxygenating activity of an organism chosen from the genus Curvularia.

2,658,024

METHOD FOR PRODUCTION OF PRODIGIOSIN

Roger L. Harned, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application April 26, 1951, Serial No. 223,158

10 Claims. (Cl. 195—96)

1. A process for the production of prodigiosin which comprises inoculating with an active culture of *Serratia marcescens* an aerated nutrient medium containing a hexose alcohol selected from the group consisting of sorbitol, mannitol, and dulcitol, a proteinaceous soy product, and magnesium sulfate, allowing the medium to ferment at a temperature favorable for prodigiosin production and growth of the organism until the desired prodigiosin concentration has been obtained.

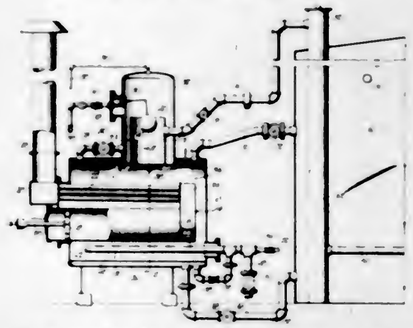
2,658,025

OIL TREATING APPARATUS HAVING SETTLING TANK HEATING MEANS

Elmer R. Williams, Springfield, Mo., assignor to Shropshire-O'Neill Tank Company, Great Bend, Kans.

Application November 14, 1949, Serial No. 127,229

7 Claims. (Cl. 196—5)



1. Treating apparatus for petroleum products of the kind having oil and water forming a part thereof, said apparatus comprising a drum having a first compartment and a second compartment disposed to present a jacket surrounding the first compartment; a tank having a water outlet and an oil outlet, the compartments of the drum and said tank all being adapted to contain a quantity of water; means for maintaining the water in the drum heated; structure interconnecting the tank, the second compartment for free circulation of water therebetween, there being an inlet opening in the first compartment adjacent the bottom thereof for said products directed thereto under pressure; and means for

conveying oil in water from the first compartment to said tank and including a cylinder coupled with the first compartment at the top thereof, a hollow oil and water receiver within the cylinder, a pipe joined with the receiver, and a stack joined to the pipe and extending into the tank.

2,658,026

BITUMINOUS MATERIALS AND THE METHOD OF PREPARING THE SAME

Frederick H. MacLaren, Munster, Ind., and Mathew L. Kalinowski, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application June 27, 1951, Serial No. 233,946

10 Claims. (Cl. 196—22)

1. The method of converting a positive spot test petroleum bitumen material to a negative spot test product, comprising admixing with a petroleum bitumen material normally having a positive spot test, an untreated asphaltic resin insoluble in a liquefied normally gaseous hydrocarbon obtained from the deasphalting of a petroleum residuum normally exhibiting a negative spot test with a liquefied normally gaseous hydrocarbon, said untreated asphaltic resin being present in a small but sufficient quantity to give the resultant product a negative spot test.

7. A petroleum asphaltic composition having a negative spot test comprising a major proportion of a petroleum asphaltic material normally having a positive spot test and a minor proportion of untreated asphaltic resins insoluble in liquefied normally gaseous hydrocarbons obtained from the deasphalting of a bitumen residuum normally having a negative spot test with a liquefied normally gaseous hydrocarbon, said asphaltic resins being present in small but sufficient quantities to impart to said composition a negative spot test.

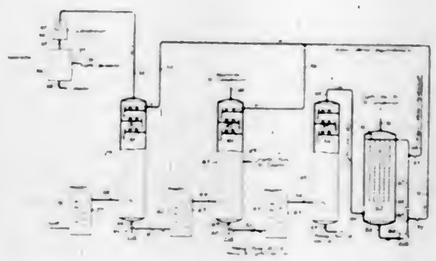
2,658,027

NEUTRALIZATION OF ACID CONSTITUENTS IN PETROLEUM

Charles O. Hoover, Houston, Tex., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application December 3, 1951, Serial No. 259,618

13 Claims. (Cl. 196—36)



1. The method of neutralizing acid constituents of petroleum distillates which comprises vaporizing a petroleum distillate containing inorganic acid material, passing the vapor in intimate contact with an alkali metal organic acid soap with resultant neutralization of inorganic acid material, and thereafter condensing the vapor.

2,658,028

MANUFACTURE AND USE OF ALUMINA-PLATINUM CATALYSTS

Vladimir Haensel, Hinsdale, and Louis Schmerling, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 14, 1951, Serial No. 261,748

9 Claims. (Cl. 196—50)

7. A process for reforming gasoline which comprises subjecting said gasoline to contact at reforming conditions with a catalyst prepared by reacting gamma alumina with a carboxylic acid of at least 60% concentration by weight and capable of forming a basic aluminum acid salt therewith at a temperature of from about 150° to about 300° C., converting the resulting basic aluminum acid salt to alumina, combining platinum therewith in an amount to form a final catalyst containing from about 0.01% to about 1% by weight of platinum, and subsequently heating the composite.

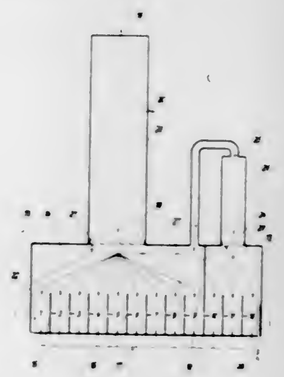
2,658,029

DISTILLATION METHOD AND APPARATUS

Walter Untermann, Frankfurt am Main, Karl Sondermann, Sprendlingen, Kreis Offenbach, and Arthur Milbers, Frankfurt am Main, Germany, assignors to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany, a corporation of Germany

Application October 27, 1951, Serial No. 253,538

16 Claims. (Cl. 202—40)



1. Method for the distillation of mixtures of substances which comprises establishing a multiple number of individual series-connected evaporation stages, including a group of first evaporation stages and a group of last evaporation stages, said first group of evaporation stages containing about one eighth to seven eighths of the entire number of individual stages passing any uncondensed vapor from said last group of stages to said common main rectification, subjecting such a mixture of substances to evaporation in all said connected stages, subjecting the vapors evaporated from said first group of stages to a common main rectification while separately condensing the vapors obtained from the evaporation in said last group of evaporation stages, returning the reflux from said common rectification to that individual evaporation stage having a concentration of the substance to be recovered as said distillate therein approximately equal to the concentration of said substance in

said condensate, returning the condensate from said last group of stages to at least one of said first group of stages passing any uncondensed vapor from said last group of stages to said common main rectification, and recovering at least one distillate from said common rectification.

2,658,030

PROCESS FOR RECOVERING SULFURIC ACID FROM MIXTURES THEREOF WITH PYRIDINE MONOCARBOXYLIC ACID BISULFATES

Ralph W. Dornte, Abington, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application November 16, 1951, Serial No. 256,839

15 Claims. (Cl. 202—40)

1. A process for recovering sulfuric acid from substantially anhydrous mixtures thereof with pyridine monocarboxylic acid bisulfates selected from the group consisting of nicotinic and isonicotinic acid bisulfates, which comprises subjecting the mixture to distillation until substantially all the free sulfuric acid therein has distilled leaving the pyridine carboxylic acid bisulfate as the residue.

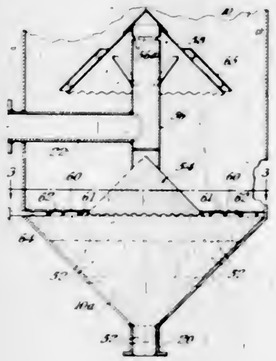
2,658,031

COKING APPARATUS

August H. Schutte, Hastings-on-the-Hudson, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application March 10, 1951, Serial No. 214,948

5 Claims. (Cl. 202—99)



1. In an elongated vertical vessel having a granular particle inlet conduit at the upper part and a conical bottom portion and a granular particle outlet conduit communicating therewith the combination of flow control means in said conical bottom portion, said flow control means including a plurality of uniformly spaced, radially extending shallow baffles projecting vertically from said conical bottom portion into the path of flow of said granular particles to subdivide the flow into a plurality of vertical streams, said baffles being in banks of increasing numbers with the increasing diameter of the bottom portion of the vessel, and a central member surmounting the baffles to establish annular flow from the vessel through the baffled areas.

2,658,032

ELECTRODEPOSITION OF BRIGHT COPPER-TIN ALLOY

Charles L. Faust and Wilbur G. Hespenheide, Columbus, Ohio, assignors, by mesne assignments, to The City Auto Stamping Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application June 11, 1949, Serial No. 98,642

11 Claims. (Cl. 204—44)

1. An aqueous bath useful in the coelectrodeposition of bright copper-tin alloys and having a pH of from 7 to 10, consisting essentially of an alkali cyanide, an alkali orthophosphate, cuprous cyanide, stannous pyrophosphate, a material selected from the group consisting of glue, gelatin, and hydrolysis products thereof, an excess of alkali pyrophosphate, and water.

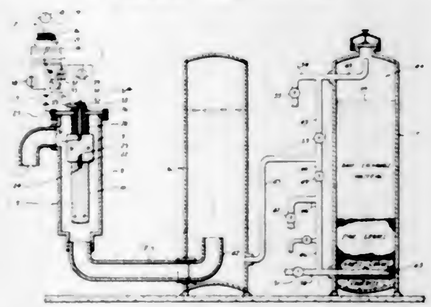
2,658,033

ELECTROLYTIC METHOD AND APPARATUS FOR STERILIZING WATER

Donald Edward Ferris, Saint John, New Brunswick, Canada

Application January 7, 1950, Serial No. 137,400

2 Claims. (Cl. 204—152)



2. A method of sterilizing water which comprises passing it through a metal sterilizing casing and there contacting the water with silver and aluminum anodes connected to the positive terminal of a source of direct current electrical energy having its negative terminal connected to said casing, and passing current to said terminals at a current density that dissolves enough silver to sterilize the water and enough aluminum to form a coating of aluminum hydroxide on the casing.

2,658,034

SEWAGE PURIFICATION TREATMENT

John W. Hood, Ridgewood, N. J.

Original application January 5, 1949, Serial No. 69,379. Divided and this application October 17, 1950, Serial No. 190,579

2 Claims. (Cl. 210—7)



1. A process employing trickling filter means for treating sewage and other aqueous wastes consisting in supplying an influent of said material to a primary clarifier by sedimentation in advance of the trickling filter, intermixing with the flow between the primary clarification and the trickling filter a supply of treated material recirculated from a later stage of the process following treatment of the material by biological oxidation maintained at a dissolved oxygen content of at least two parts per million and simultaneously with said supply of treated material introducing and intermixing with the flow from the primary clarification to the trickling filter an aerating supply of oxygen-containing gas, subsequently subjecting the clarified material with a gradually increased surface exposure to a further supply of aerating oxygen-containing gas in a trickling filter raising the dissolved oxygen content further above said two parts per million for a correspondingly increased biological oxidation, drawing off a portion of the effluent from said trickling filter and passing said portion back for recirculation as said supply of treated material for mixture with said flow at a point subsequent to said primary clarification and between said primary clarification and said trickling filter, and continuing said treatment of the material under biological oxidation in the presence of a desired oxygen content of at least two parts per million.

2,658,035

TREATMENT OF DRILLING MUDS WITH BARIUM STARCH

Harold E. Bode, Chicago, Ill., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 16, 1949 Serial No. 127,759

6 Claims. (Cl. 252—8.5)

1. An aqueous well-drilling-fluid containing a small percentage of an insoluble, anion activatable, amylopectin complex of a metal of a group consisting of barium, aluminum and zinc in an amount sufficient to attain a low water-loss.

2,658,036

COMPOSITION FOR PREVENTING DEPOSITION AND CORROSION IN OIL WELL EQUIPMENT

Clark D. Core, Seguin, and Edward N. Jones, Pettus, Tex.; said Core assignor to Texas Acidizers, Incorporated, Seguin, Tex., a corporation of Texas

No Drawing. Application July 19, 1950, Serial No. 174,788

5 Claims. (Cl. 252—8.55)

1. A composition for removing and preventing scale deposition and preventing corrosion in oil well equipment comprising 4–45% by weight of a 40% aqueous solution of an alkali metal arsenite, 4–45% by weight of an alkali metal hexametaphosphate and a minor amount of surface-active demulsification agent, the balance being water.

2,658,037

MANUFACTURE OF LUBRICATING GREASES

Eduard Orno-Ornfeldt, Bonn-Dransdorf, Germany, assignor to Chemieprodukte G. m. b. H., Leverkusen-Rheindorf, Germany

No Drawing. Application September 26, 1950, Serial No. 186,908

2 Claims. (Cl. 252—42)

1. In the manufacture of lubricating greases, the process which comprises saponifying with caustic soda an unsaturated oleaginous material selected from the class consisting of animal fats and oils, adding a mineral oil in a quantity at least equal to the quantity of said unsaturated oleaginous material and about 2 to 4 per cent of beeswax, heating the mixture to a temperature sufficiently high to drive off the water present until the mixture can be filmed upon cooling, cooling the mass, grinding it, dissolving it in a liquid hydrocarbon solvent, aging the solution for about 24 hours and adding, about 2–5%, to a mineral oil which is to be transformed into a grease.

2,658,038

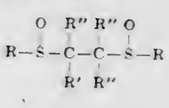
DISULFOXIDES

Wayne A. Proell, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application December 21, 1949, Serial No. 134,361

9 Claims. (Cl. 252—161)

1. As a new composition of matter, a compound having the formula



wherein R is an alkyl radical containing 1 to 3 carbon atoms, inclusive, R' is an alkyl radical containing 6 to 25 carbon atoms, inclusive, and R'' is selected from the class consisting of hydrogen and alkyl radicals containing from 1 to 6 carbon atoms, inclusive.

2,658,039

METHOD AND APPARATUS FOR PRODUCING MIXTURES OF COKE AND MINERAL MATERIALS

Charles J. McFarlin, Darien, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application May 5, 1948, Serial No. 25,113

7 Claims. (Cl. 252—188.3)

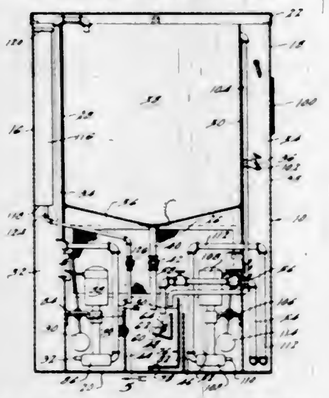
1. The method of continuously producing calcined material intimately mixed with carbonaceous fuel which comprises continuously advancing the material to be calcined through a heating and calcining zone extending from one end of a chamber to and through a coking and agglomerating zone at the other end of said chamber, calcining the material as it passes through the heating and calcining zone, adding a carbonaceous substance containing volatile combustible constituents to the advancing material after the calcination thereof is substantially complete and as it enters the coking and agglomerating zone, supplying heat to the carbonaceous substance while it is advancing through the coking and agglomerating zone with the calcined material in amount sufficient to volatilize volatile constituents of the carbonaceous substance, admixing air with said volatilized constituents in amount sufficient to effect combustion thereof but insufficient to effect complete burning of the residue resulting from the release of the volatile constituents, the admixing of the air with the volatile constituents being upstream of the travel of the material from where the carbonaceous substance is added to the calcined material, burning the resulting mixture of air and volatilized constituents and projecting the flame from such burning into the calcining zone to supply heat for said calcination of the material, and finally discharging the mixture of calcined material and residue of the carbonaceous substance from the coking and agglomerating zone.

2,658,040

APPARATUS FOR SEPARATING OIL FROM COOLANT LIQUIDS

Albert Marden Sargent, Detroit, Mich., assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application July 29, 1950, Serial No. 176,626
6 Claims. (Cl. 252—360)



1. Apparatus for handling and separating mixtures of immiscible liquids comprising a housing having a pair of spaced, vertical partitions defining a middle and two side chambers in the housing, an inlet pipe positioned to introduce liquids to be separated into said middle chamber, the latter comprising a settling chamber in which the liquids separate into separate layers, valve means in said inlet pipe for controlling the rate of flow and consequently the pressure of liquid introduced into said middle chamber, a container in the housing above said settling chamber adapted to contain a liquid for breaking an emulsion of liquids in the settling chamber and provided with a valve-controlled discharge pipe for delivering liquid from the container to the settling chamber, a baffle in said middle chamber directly below the discharge end of said inlet pipe for deflecting and spreading the liquid as it enters the chamber, said baffle being universally adjustable to compensate for irregularities in the surface on which the apparatus is supported and also to accommodate varying amounts of liquid charged to the chamber, one of said partitions having an opening therein through which the top layer of liquid enters one side chamber, a vertically adjustable weir on the partition and movable across said opening, said weir having an upper edge over which liquid spills from said settling chamber, said inlet pipe extending below the upper edge of said weir so as to introduce liquid into said settling chamber below the level of liquid therein, a tank in the upper portion of the housing, means for pumping liquid from one side chamber into the tank controlled by the level of liquid in said one side chamber, a drainpipe in the bottom of the tank and an overflow pipe in the top of the tank, both positioned to discharge into said settling chamber, a valve-controlled outlet for the tank located substantially above the bottom thereof, means for conducting liquid from the bottom of the settling chamber into the other of said side chambers, means for pumping liquid from said other side chamber, and a float-operated valve in said inlet pipe arranged with the float in said other side chamber and operative to shut off flow through the inlet pipe automatically when liquid in said other side chamber rises to a predetermined level.

2,658,041

COBALT MAGNESIA-KIESELGUHR CATALYST

John W. Teter and Leonard E. Olson, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Original application February 11, 1949, Serial No. 75,976. Divided and this application May 20, 1950, Serial No. 163,334
3 Claims. (Cl. 252—457)

1. A catalyst effective in the production of nitrogen-containing products by the direct reaction of ammonia with olefins and consisting of the reduction product of mixed cobalt and magnesium oxides supported on a diatomaceous earth carrier, in which the molar proportion of cobalt to magnesium is within the approximate range of 1:2 and 1:8, the proportion of cobalt approximates 13.7 to 35 weight per cent, the proportion of magnesium is less than 40 weight per cent and the carrier content is at least about 10 weight per cent.

2,658,042

ION EXCHANGE RESINS FROM FORMALDEHYDE AND THE REACTION PRODUCT OF A CHLOROMETHYLATED POLYNUCLEAR HYDROCARBON AND A BASIC TERTIARY AMINE

Carl Erick Johnson, Westchester, Ill., assignor to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Application February 2, 1952. Serial No. 269,686
17 Claims. (Cl. 260—2.2)

1. A water insoluble ion exchange resinous material obtained by condensing (*a*) formaldehyde and (*b*) the monomeric quaternary amine product of the reaction of a chloromethylated polynuclear aromatic hydrocarbon and a basic tertiary amine.

2,658,043

POROUS COMPOSITIONS UTILIZING N-CARBOXYAMINOACID ANHYDRIDE

Earl W. Gluesenkamp, Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Original application September 24, 1948, Serial No. 51,109, now Patent No. 2,610,157, dated September 9, 1952. Divided and this application January 18, 1952, Serial No. 267,320
2 Claims. (Cl. 260—2.5)

1. A method of preparing a porous composition, which comprises intimately dispersing from 3 to 20 percent by weight of an N-carboxyaminoacid anhydride in a vinyl chloride polymer, heating the composition to polymerize the N-carboxyaminoacid anhydride and to form gas cells in the composition.

2,658,044

AQUEOUS DISPERSIONS OF BUTYL RUBBER-NATURAL RUBBER BLENDS

Everett V. Anderson, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 11, 1952, Serial No. 309,149
6 Claims. (Cl. 260—5)

1. A composition comprising a dispersion of particles of a blend of a rubbery copolymer of a major proportion of isoolefine and a minor proportion of conjugated diene and natural rubber in an aqueous medium, the natural rubber portion of the blend being vulcanized in its aqueous dispersed state in the blend in the presence of 0.05 to 5% of sulfur based on the natural rubber, said composition containing material selected from the group consisting of alkali soaps of soap-forming monocarboxylic acids having 10 to 20 carbon atoms, glycol esters of fatty acids having 10 to 20 carbon atoms, proteins and colloidal clays, the ratio of natural rubber to copolymer in said blended particles being in the range from 1:10 to 1:1.

2,658,045

POLYVINYL PYRROLIDONE GELS AND PROCESS OF PRODUCING THE SAME

Calvin Everett Schildknecht, Montclair, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 5, 1951, Serial No. 214,012
10 Claims. (Cl. 260—29.6)

5. Hydrous to dehydrated gels of polymeric N-vinyl pyrrolidone obtained by treating an aqueous solution of a water soluble N-vinyl pyrrolidone polymer with an approximately equal amount by weight of a water soluble inorganic persulfate and heating the same to cause gelation, said gels in hydrous form being characterized in that they are uniform and continuous and resistant to syneresis and insensitive to heat up to 100° C.

2,658,046

SOFTENED COPOLYMER OF BUTADIENE AND STYRENE

Tracy M. Patrick, Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 4, 1951, Serial No. 224,675
4 Claims. (Cl. 260—30.2)

1. An uncured rubber-like copolymer of butadiene and styrene which contains a compound of the structure

$$T-\overset{R}{C}=N-\overset{H}{N}-A$$

where T represents a thienyl group, A an aryl group and R is an alkyl group containing less than four carbon atoms.

2,658,047

VINYL CHLORIDE POLYMERS PLASTICIZED WITH CYANOETHYL ETHERS OF S-(2-ARYLETHYL)-2-MERCAPTOETHANOLS

Joachim Dazzi, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 8, 1952, Serial No. 286,830
2 Claims. (Cl. 260—30.8)

1. A resinous composition comprising polyvinyl chloride plasticized with a nitrile having the general formula

$$ArCH_2CH_2SCH_2CH_2OCH_2CH_2CN$$

in which Ar is a member of the group consisting of phenyl, naphthyl and xenyl radicals and monoalkyl-substituted phenyl radicals, monoalkyl-substituted naphthyl radicals and monoalkyl-substituted xenyl radicals in which the alkyl group has up to 20 carbon atoms, said nitrile being from 5 to 50 per cent of the weight of the composition.

2,658,048

PLASTIC COMPOSITIONS AND ARTICLES PRODUCED THEREFROM

Ralph J. Signer, Villa Park, Ill., assignor to The Visking Corporation, Chicago, Ill., a corporation of Virginia

No Drawing. Application October 10, 1951, Serial No. 250,810
16 Claims. (Cl. 260—32.8)

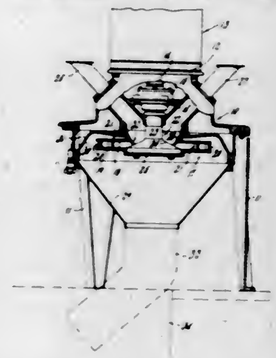
1. A composition for producing, by hot-melt extrusion, articles substantially free of the tendency to block and comprising halogen-containing vinyl resin, nitrile rubber in an amount not more than said vinyl resin, said nitrile rubber being formed of 40% to 75% of butadiene 1,3 and correspondingly 60% to 25% of acrylonitrile, and an antiblocking agent which also acts as a lubricant during the melt extrusion operation consisting of stearone in an amount equal to 1½% to 4% by weight of the combined amounts of said vinyl resin and nitrile rubber, said composition being free of volatile solvents.

2,658,049

PREPARATION OF SYNTHETIC RUBBER-CARBON BLACK MIXTURES

James W. Adams, Beacon Falls, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application November 10, 1950, Serial No. 195,112
11 Claims. (Cl. 260—41.5)



1. In the preparation of a synthetic rubber-carbon black mix by coagulation of a mixture of a synthetic rubber latex and an aqueous dispersion of carbon black, the step of imparting a high speed centrifugal motion to an uncoagulated mixture of an aqueous dispersion of carbon black and a synthetic rubber latex in which the carbon black particles and synthetic rubber particles are both negatively charged, and impinging the mixture against a stationary baffle, and thereafter coagulating the thus treated mixture.

2,658,050

MIXTURE OF POLYCHLOROPRENE, VINYL CHLORIDE POLYMER, AND BUTADIENE-ACRYLONITRILE COPOLYMER

Ralph J. Signer, Chicago, and Keith F. Beal, Park Forest, Ill., assignors to The Visking Corporation, Chicago, Ill., a corporation of Virginia

No Drawing. Original application January 14, 1947, Serial No. 722,082. Divided and this application June 8, 1950, Serial No. 166,971
14 Claims. (Cl. 260—45.5)

1. Formed structures consisting essentially of 20%–70% polychloroprene and 70%–20% of a

vinyl polymer selected from the class consisting of polyvinyl chloride and copolymer of 88%–82% vinyl chloride and 12%–18% vinyl acetate, said polychloroprene and vinyl polymer being normally incompatible, and 10%–25% of a synthetic resin blending agent consisting of a rubbery copolymer of 75%–55% of 1,3 butadiene and 25%–45% acrylonitrile whereby said incompatible polychloroprene and vinyl polymer are made compatible.

2,658,051

MIXTURE OF POLYCHLOROPRENE, VINYL CHLORIDE-ACRYLONITRILE COPOLYMER, AND BUTADIENE - ACRYLONITRILE COPOLYMER

Ralph J. Signer, Chicago, and Keith F. Beal, Park Forest, Ill., assignors to The Visking Corporation, Chicago, Ill., a corporation of Virginia

No Drawing. Original application January 14, 1947, Serial No. 722,082. Divided and this application June 8, 1950, Serial No. 166,972

8 Claims. (Cl. 260—45.5)

1. Formed structures consisting essentially of 25%–60% polychloroprene, 70%–25% of a copolymer of 60% vinyl chloride and 40% acrylonitrile and 5%–25% of a synthetic resin blending agent consisting of a rubbery copolymer of 75%–55% of 1,3 butadiene and 25%–45% acrylonitrile whereby said polychloroprene and vinyl chloride-acrylonitrile copolymer being normally incompatible are made compatible.

2,658,052

MIXTURE OF POLYVINYLIDENE CHLORIDE, VINYL CHLORIDE POLYMER, AND BUTADIENE-ACRYLONITRILE COPOLYMER

Ralph J. Signer, Chicago, and Keith F. Beal, Park Forest, Ill., assignors to The Visking Corporation, Chicago, Ill., a corporation of Virginia

No Drawing. Original application January 14, 1947, Serial No. 722,082. Divided and this application June 8, 1950, Serial No. 166,973

10 Claims. (Cl. 260—45.5)

1. Formed structures consisting essentially of 25%–35% polyvinylidene chloride and 50%–40% of a rubbery copolymer of 55% butadiene and 45% acrylonitrile, said polyvinylidene chloride and butadiene-acrylonitrile copolymer being incompatible, and 15%–25% of a blending agent consisting of a vinyl polymer selected from the class consisting of polyvinyl chloride and a copolymer of vinyl chloride and up to 35% vinyl acetate whereby said incompatible polyvinylidene chloride and butadiene-acrylonitrile copolymer are made compatible.

2,658,053

MIXTURE OF POLYCHLOROPRENE, VINYL CHLORIDE - VINYLIDENE CHLORIDE COPOLYMER, AND BUTADIENE-ACRYLONITRILE COPOLYMER

Ralph J. Signer, Chicago, and Keith F. Beal, Park Forest, Ill., assignors to The Visking Corporation, Chicago, Ill., a corporation of Virginia

No Drawing. Original application January 14, 1947, Serial No. 722,082. Divided and this application June 8, 1950, Serial No. 166,974

4 Claims. (Cl. 260—45.5)

1. Formed structures consisting essentially of 25% of a synthetic resin formed of a rubbery copolymer of 75%–55% butadiene and 25%–45% acrylonitrile, 50% of a copolymer of 18%–15% vinyl chloride and 82%–85% vinylidene chloride, and 25% of a blending agent consisting of polychloroprene whereby said copolymers being normally incompatible are made compatible.

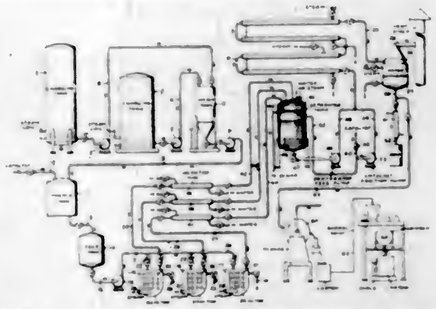
2,658,054

CONTINUOUS RESIN PROCESS

Gordon A. Coleman, Wyndmoor, and Richard B. Greene and John H. Merriam, Philadelphia, Pa., Stuart P. Miller, Scarsdale, N. Y., and Robert F. Shannon, Conneaut Lake, Pa., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

Application October 31, 1951, Serial No. 254,016

10 Claims. (Cl. 260—57)



1. A process for the production of synthetic resins resulting from the reaction of resin-forming substances selected from the group consisting of a phenol, urea and melamine with an aldehyde induced by heat and the presence of a catalyst which comprises continuously passing the resin-forming substances in the presence of a catalyst in a flowing stream through a first elongated passageway of restricted cross-sectional area, maintaining the flowing stream of materials during its passage through the first elongated passageway at an elevated temperature for sufficient length of time to effect partial conversion of the resin-forming substances, cooling the effluent to a temperature at which separation into a liquid aqueous layer and a layer of incompletely converted resinous material occurs, withdrawing a portion of the liquid aqueous layer, passing the incompletely converted resinous material in a flowing stream through a second elongated passageway of restricted cross-sectional area, maintaining the flowing stream of materials during its passage through the second elongated passageway at an elevated temperature for a sufficient length of time to effect further conversion of the incompletely converted resinous material, regulating the extent of the conversion reaction by the introduction of controlled amounts of catalyst into the incompletely converted resinous material undergoing further conversion in the second elongated passageway, continuously discharging the resinous material from the second elongated passageway, and dehydrating said resinous material.

2,658,055

ORIENTABLE CONDENSATION POLYMERS OF HYDROXYPIVALIC ACID AND PROCESS FOR PREPARING THEM

Thomas Alderson, New Castle, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 24, 1951, Serial No. 243,603

11 Claims. (Cl. 260—78.3)

1. A process for producing orientable polymers of hydroxypivalic acid which comprises heating a member of the group consisting of hydroxypivalic acid having a melting point of at least 122° C. and corresponding hydroxypivalic acid esters of low boiling aliphatic alcohols at temperatures in the range of 150–200° C. until rapid evolution of by-products ceases, and then continuing the heating at temperatures in the range of 200–275° C. and at less than 1 mm. of mercury absolute pressure until a polymer having an intrinsic viscosity of at least 0.5 is formed.

2,658,056

POLYMERIC N-METHACRYLYL MORPHOLINE

George E. Ham, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application February 27, 1948, Serial No. 11,870

1 Claim. (Cl. 260—88.3)

Polymeric N-methacrylyl morpholine.

2,658,057

MASS POLYMERIZATION WITH MIXTURE OF 4,4-DIHYDROXY BENZOYL PEROXIDE AND ADIPOYL PEROXIDE

Harold F. Park, East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 24, 1952, Serial No. 316,790

3 Claims. (Cl. 260—92.8)

1. A mass polymerization process which comprises polymerizing 100 parts of a compound taken from the group consisting of styrene and vinyl halides at from 100 to 400° C. and 1 to 500 atmospheres pressure in contact with from 0.01 to 5.0 parts of an equimolecular mixture of 4,4'-dihydroxy benzoyl peroxide and adipoyl peroxide.

2,658,058

PROCESS FOR MAKING HIGH POLYMERS OF ALPHA-METHYL STYRENE

Thomas E. Werkema, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application September 29, 1952, Serial No. 312,160

10 Claims. (Cl. 260—93.5)

1. A process for making a normally solid homopolymer of alpha-methyl styrene which comprises polymerizing monomeric alpha-methyl styrene in the presence of at least one alkali metal catalyst selected from the group consisting of sodium, potassium and lithium, alloys of potassium and lithium with each other, and mixtures and alloys of sodium with at least one of the elements potassium and lithium, in a reaction zone where the mixture is maintained at a temperature of from 0° to 30° C. to effect polymerization and form a liquid solution of polymer in monomeric alpha-methyl styrene, withdrawing a portion of the reaction liquor from said reaction zone through a filter while retaining the principal portion of the non-chemically combined alkali metal catalyst in the residual reaction mixture and adding monomeric alpha-methyl styrene to the residual reaction mixture.

2,658,059

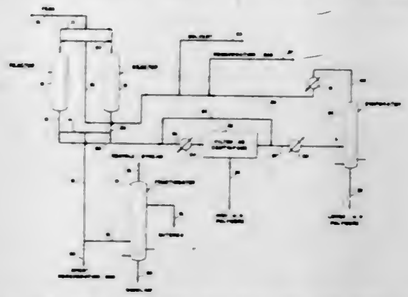
ETHYLENE POLYMERIZATION IN THE VAPOR PHASE

Edwin F. Peters and Bernard L. Evering, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application April 27, 1950, Serial No. 158,572

18 Claims. (Cl. 260—94.9)

7. In a process for the polymerization of ethylene by contact in the gaseous state with a catalyst comprising essentially an activated carbon-supported metal selected from the group consisting of nickel, cobalt and nickel-cobalt mixtures at a temperature between about 0° C. and about 250° C. and a pressure of at least about 500 p. s. i. g., the steps of continuing said process until said catalyst contains a substantial amount equal to at least about 1.7 percent by weight of



solid ethylene polymers, extracting the used polymerization catalyst with a hot solvent for polyethylenes, cooling the resultant solution out of contact with said catalyst to insolubilize and solidify solute polyethylene waxes and resins having melting points between about 110° C. and about 130° C., separating said waxes and resins, and thereafter evaporating the remaining solution to separate grease-like polymers.

2,658,060

PROCESS FOR CENTRIFUGAL SEPARATION OF UREA COMPLEXES FROM ORGANIC MIXTURES

George B. Arnold, Glenham, and Louis Kovach, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application November 30, 1949, Serial No. 130,338

5 Claims. (Cl. 260—96.5)

1. In a process involving formation of complexes comprising urea and organic compounds containing a normal aliphatic chain of at least six carbon atoms by contacting aqueous urea at a temperature below 150° F. with a mixture containing said compounds, said aqueous urea being selected from the group consisting of saturated urea solution and a urea slurry, the improvement which comprises effecting separation of said resulting complex-containing mixture consisting of water and said organic compounds by centrifuging at a temperature between 120 and 140° F. whereby there are obtained an organic light stream and a dense aqueous stream containing said complex.

2,658,061

APPARATUS FOR THE RETORTING OF OIL SHALE AND SIMILAR MATERIALS

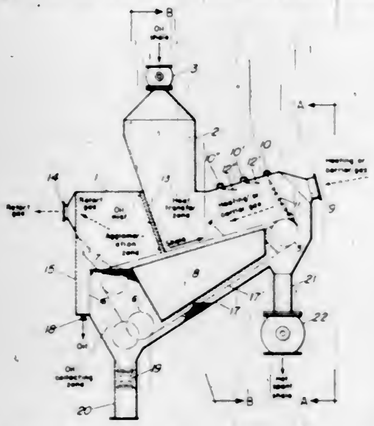
John G. Tripp and Lewis H. Brakel, Rifle, Colo., and George D. Gould, El Cerrito, Calif.; said Tripp and said Brakel assignors of two-thirds to the United States of America as represented by the Secretary of the Interior, and said Gould assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application September 22, 1949, Serial No. 117,246

5 Claims. (Cl. 202—99)

1. A retort for the destructive distillation of oil shale and similar solid materials comprising an elongated shell, an endless belt conveyor disposed within said shell and inclined upwardly toward its discharge end, means for continuously feeding

crushed solids through the top of said shell to the lower portion of the carry-run of said belt conveyor whereby said solid material is continuously carried upwardly as a pervious bed occupying substantially the entire cross section of said retort between the carry-run of said conveyor and the top of said shell, means for introducing retorting gases into said shell adjacent the discharge end of said conveyor whereby said gases



pass countercurrently through the continuously advancing bed of solids, means for withdrawing said retorting gases from said shell at the opposite end of said conveyor, the lower portion of said shell forming a basin for the collection of liquid products distilled from the solid material carried by said conveyor, the lower end of said inclined conveyor being disposed within said basin, whereby said conveyor is cooled during its return run by immersion in the liquid contained therein.

2,658,062

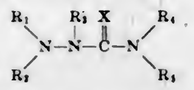
MINERAL OIL ADDITIVE

Robert H. Jones, Kenilworth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 17, 1949, Serial No. 116,401

12 Claims. (Cl. 260—132)

1. As a new composition of matter a product obtained by preparing a first reaction product chosen from the group consisting of (*a*) the products obtained by reacting the sulfides of phosphorus with an essentially hydrocarbon material (*b*) the products obtained by reacting a mixture of the elements of phosphorus and sulfur with an essentially hydrocarbon material and (*c*) the metal salts of (*a*) and (*b*), and then by reacting the said first reaction product with an organic compound selected from the groups consisting of (*d*) compound of the composition,



wherein R_1, R_2, R_3, R_4, and R_5 are each selected from the groups consisting of hydrogen and hydrocarbon radicals containing 1 to 20 carbon atoms each, and X is selected from the group consisting of oxygen and sulfur and (*e*) an inorganic acid salt of (*d*) provided that reaction products (*a*) and (*b*) are reacted only with compound (*d*) and reaction product (*c*) is reacted only with inorganic acid salt (*e*).

2,658,063

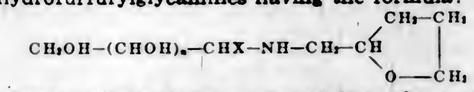
TETRAHYDROFURFURYLGLYCAMINES AND PROCESS FOR PRODUCING SAME

John B. Tindall, Terre Haute, Ind., and John W. Fraza, Jr., Joplin, Mo., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application October 27, 1951, Serial No. 253,555

10 Claims. (Cl. 260—211)

1. As new compositions of matter, N-tetrahydrofurfurylglycamines having the formula:



wherein *n* is an integer selected from the group consisting of 2, 3, and 4 and X is hydrogen when *n* is 4, X is CH_2OH when *n* is 2, and X is selected from the group consisting of hydrogen and CH_2OH when *n* is 3.

2,658,064

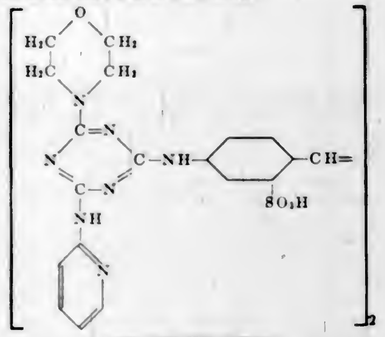
FLUORESCENT AGENTS FROM DIAMINO STILBENE

William Eldred Wallace, Belvidere, N. J., and William Wilson Williams, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 10, 1950, Serial No. 178,745

2 Claims. (Cl. 260—247.1)

2. Fluorescent agents which in the form of the free acid have the formula



2,658,065

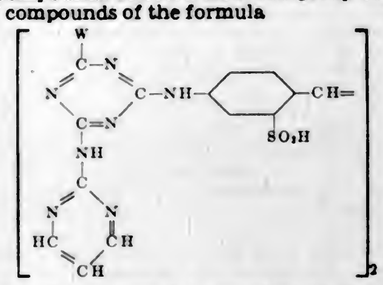
TRIAZINE FLUORESCENT AGENTS

William Eldred Wallace, Belvidere, N. J., and William Wilson Williams, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 10, 1950, Serial No. 178,746

3 Claims. (Cl. 260—247.1)

1. Compounds selected from the group consisting of compounds of the formula



wherein W represents a member of the group consisting of chlorine and bromine, and dialkylamino in which the alkyl groups have from 1 to 5 alkyl carbon atoms, anilino and N-alkylanilino in which the alkyl group has from 1 to 4 alkyl carbon atoms, toluidino, anisidino and morpholino radicals and the salts of such compounds.

2,658,066

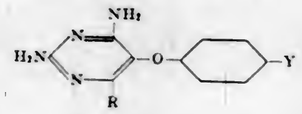
2,4-DIAMINO-5-PHENOXYPYRIMIDINES

George H. Hitchings, Tuckahoe, Peter Byrom Russell, Crestwood, and Elvira A. Falco, New Rochelle, N. Y., assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York

No Drawing. Application November 15, 1951, Serial No. 256,618

6 Claims. (Cl. 260—256.4)

1. As a new compound, a 2,4-diamino-5-phenoxypyrimidine of the formula:



where R is selected from the group consisting of hydrogen and methyl and Y is selected from the group consisting of chloro, bromo, nitro, phenyl, hydrindenyl, and benzyl radicals.

2,658,067

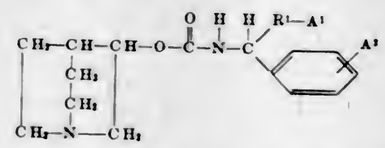
SUBSTITUTED CARBAMIC ACID ESTERS

Robert Duschinsky, Essex Fells, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application June 19, 1952, Serial No. 294,478

5 Claims. (Cl. 260—294.3)

1. A compound selected the group consisting of bases having the formula



wherein R^1 represents a hydrocarbon radical selected from the group consisting of phenylene ($-C_6H_4-$) and cyclohexylene ($-C_6H_{10}-$), and A^1 and A^2 each represents a member of the group consisting of hydrogen, halogen, nitro, lower alkyl and lower alkoxy, and acid addition salts of said bases and quaternary ammonium salts of said bases.

2,658,068

3-(CYANOMETHYL)THIANAPHTHENE-1,1-DIOXIDE

Arthur H. Schlesinger and David T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application September 26, 1951, Serial No. 248,463

4 Claims. (Cl. 260—332.1)

1. 3-(cyanomethyl)thianaphthene-1,1-dioxide.

2,658,069

SEPARATION OF OXYGENATED COMPOUNDS

Joan Henri van der Waals, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 18, 1949, Serial No. 105,455

Claims priority, application Netherlands July 26, 1948

12 Claims. (Cl. 260—450)

1. A process for separating a mixture of hydrocarbon-soluble, water-insoluble aliphatic alcohols and aliphatic carbonylic compounds selected from the group consisting of aldehydes and ketones having a boiling range of not more than about 40° C. and a boiling point not higher than about 250° C., and being essentially free from hydrocarbons of the same boiling range. into one fraction enriched in alcohols and another fraction enriched in said carbonylic compounds, which process comprises subjecting said mixture to solvent extraction with two substantially mutually immiscible solvents flowing in countercurrent to each other, wherein one solvent consists essentially of an organic polar liquid with two polar oxygen-containing groups and the other solvent is essentially a paraffinic hydrocarbon mixture with a boiling range outside the boiling limits of said mixture.

2,658,070

CARBOALKOXYETHYLATION REACTIONS IN PRESENCE OF CERTAIN ANION-EXCHANGE RESINS

Claude J. Schmidle, Moorestown, and Richard C. Mansfield, Riverton, N. J., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application February 1, 1952, Serial No. 269,582

13 Claims. (Cl. 260—478)

1. A process of preparing carboalkoxyethyl substituted compounds which comprises reacting between about 0° and 90° C. in the presence of an anion-exchange resin having quaternary ammonium alkoxide substituents as the functional portion thereof, the alkoxide groups having not over four carbon atoms, by adding together an alkyl acrylate and a compound having reactive hydrogen attached to a member of the class consisting of the oxygen of alcoholic hydroxyl groups and methylenic carbon activated by juxtaposition of an electron-withdrawing group.

2,658,071

PENTACHLOROPHENYL ESTER OF TRICHLOROACETIC ACID

Floyd L. Beman, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application November 23, 1951, Serial No. 257,930

1 Claim. (Cl. 260—479)

The pentachlorophenyl ester of trichloroacetic acid.

2,658,072

PROCESS OF PREPARING AMINE SULFONATES AND PRODUCTS OBTAINED THEREOF

Milton Kosmin, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 17, 1951, Serial No. 226,948
7 Claims. (Cl. 260—513)

1. The process of producing N-alkyltaurines having the formula $RNHC(R')H.CH_2SO_3X$ in which R is an alkyl radical of from 8 to 18 carbon atoms, R' is selected from the class consisting of hydrogen and the methyl radical and X is selected from the class consisting of hydrogen, alkali metal, alkaline earth metal and ammonium which comprises heating, at atmospheric pressure and at a temperature of 180° C.–300° C., an alkylamine of from 8 to 18 carbon atoms with a compound selected from the class consisting of isethionic acid and 2-methylisethionic acid and the alkali metal, alkaline earth metal and ammonium salts of said acids.

2,658,073

PURIFICATION OF PARA-AMINOSALICYLIC ACID AND ITS ALKALI METAL SALTS

Marrine A. Terpstra, Kirkwood, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 18, 1950, Serial No. 150,547
12 Claims. (Cl. 260—519)

1. In a process for the purification of crude para-aminosalicylic acid and its alkali metal salts, the steps comprising dissolving an alkali metal salt of crude para-aminosalicylic acid in water and while maintaining the pH of the solution so formed in the range of from about 8.5 to about 9.0 crystallizing therefrom the alkali metal salt of para-aminosalicylic acid by cooling said water solution.

2,658,074

EXTRACTION OF THIOGLYCOLIC ACID FROM ACIDIC AQUEOUS MEDIA

Bryant Charles Fischback, Walnut Creek, and Guy H. Harris, Richmond, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application February 13, 1952, Serial No. 271,422
4 Claims. (Cl. 260—526)

1. The method of recovering substantially all of the thioglycolic acid, in substantial purity, from acidified aqueous saline solutions thereof which consists essentially in extracting the thioglycolic acid from said aqueous solution with a member of the group consisting of tertiaryamyl alcohol and tertiarybutyl alcohol, and concentrating the resulting alcoholic solution.

2,658,075

PROCESS FOR PREPARING CARBOXYLIC ACIDS AND THEIR ANHYDRIDES

Walter Reppe and Walter Schweckendiek, Ludwigshafen (Rhine), and Hugo Kroeper, Heidelberg, Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany

No Drawing. Application April 16, 1952, Serial No. 282,687
Claims priority, application Germany April 27, 1951
8 Claims. (Cl. 260—533)

1. A process for the manufacture of saturated aliphatic carboxylic acids and their anhydrides which comprises heating a monoolefinic aliphatic hydrocarbon together with a saturated aliphatic monocarboxylic acid to temperatures between about 180° and 300° C. in the presence of a nickel salt of said acid which contains in complex combination a tertiary organic base selected from the group consisting of pyridine and triphenyl phosphine, while maintaining a carbon monoxide pressure of at least 100 atmospheres.

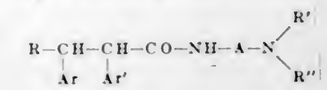
2,658,076

N-DIALKYLAMINOALKYL DERIVATIVES OF α,β-DIARYLALKANOAMIDES AND THEIR SALTS

Carl Peter Krimmel, Mundelein, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application June 12, 1951, Serial No. 231,247
7 Claims. (Cl. 260—558)

1. The new group of organic compounds consisting of the N-dialkylaminoalkyl-α,β-diarylalkanoamides of the structural formula



wherein Ar and Ar' are lower aryl hydrocarbon radicals containing 6 to 8 carbon atoms, A is a lower alkylene radical containing at least two carbon atoms, and R, R' and R'' are lower alkyl radicals.

2,658,077

CRYSTALLIZATION OF CHLORTETRACYCLINE

Edward R. Harms, Park Ridge, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application August 20, 1949, Serial No. 111,581
6 Claims. (Cl. 260—559)

6. A method of isolating chlortetracycline as an acid salt which comprises adding an inorganic water-soluble salt of a mineral acid and an at least partially water-soluble hydroxylated organic solvent in a quantity insufficient to dissolve the chlortetracycline present to an aqueous solution containing chlortetracycline at a pH of less than 4 and a concentration of approximately 3 to 30 milligrams per milliliter, and separating and recovering the thus formed salt of chlortetracycline, with an acid, said acid being the acid derived from the anionic portion of said inorganic water-soluble salt.

2,658,078

SOLVENT EXTRACTION OF OXYTETRACYCLINE

Edwin W. Blase, Carle Place, N. Y., assignor to Chas. Pfizer & Co., Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 19, 1950, Serial No. 185,695
9 Claims. (Cl. 260—559)

1. In a process for the solvent-extraction of oxytetracycline from a clarified, acidic, oxytetracycline-containing fermentation broth, the improvement which comprises adding to the clarified broth before the extraction at least one sequestering agent for polyvalent metallic ions.

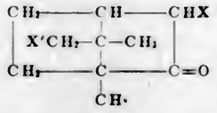
2,658,079

PROCESS OF HALOGENATING THE γ-POSITION OF CAMPHOR AND ITS α-HALODERIVATIVES

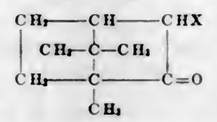
Hiroshi Nishimitsu, Suma-Ku, Kobe, Masamoto Nishikawa, Nishinomiya, and Hikoichi Hagihara, Toyonaka, Japan, assignors to Takeda Yakuhin Kogyo Kabushikigaisha, Doshomachi, Higashi-Ku, Osaka-Shi, Japan

No Drawing. Application May 29, 1951, Serial No. 229,003
Claims priority, application Japan June 10, 1950
3 Claims. (Cl. 260—587)

1. A process of preparing a compound corresponding to the formula



wherein X stands for a member selected from the group consisting of H and halogen, and X' stands for halogen, which comprises dissolving a compound corresponding to the formula



wherein X has the precedingly-recited significance, in a solvent selected from the group consisting of oleum, chlorosulfonic acid and a mixture of both, and then introducing halogen therein in a practically anhydrous condition at a temperature lower than 30° C.

2,658,080

MONOBENZYL ETHER OF DIETHYLSTILBESTROL

Frank Charles Schmelkes, deceased, late of Montclair, N. J., by Margarete Schmelkes, executrix, Montclair, N. J., assignor to Wallace & Tiernan Company, Inc., a corporation of New Jersey

No Drawing. Application May 29, 1951, Serial No. 228,986
1 Claim. (Cl. 260—613)

Monobenzyl ether of diethylstilbestrol.

2,658,081

PREPARATION OF ETHER-ALCOHOLS

William S. Emerson and Raymond I. Longley, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 16, 1950, Serial No. 201,231
7 Claims. (Cl. 260—615)

4. The method of preparing 5-alkoxypentanols in which the alkoxy radical has from 1 to 4 carbon atoms which comprises contacting with hydrogen a 2-alkoxy-3,4-dihydro-1,2-pyran in which the alkoxy radical has from 1 to 4 carbon atoms, in the presence of a hydrogenation catalyst, at a temperature of from 175° C. to 300° C., at a pressure of at least 500 pounds per square inch, and under anhydrous conditions.

2,658,082

METHOD OF PREPARING DIMETHOXYDECADIENES

Richard S. Urban, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application June 8, 1951, Serial No. 230,685
3 Claims. (Cl. 260—615)

1. A process for preparing a mixture of isomeric dimethoxydecadienes, all of which have the formula

$$CH_3O—C_{10}H_{16}—OCH_3$$

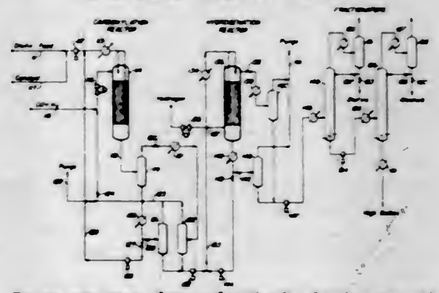
which comprises reacting a mixture of isomeric methoxychloropentenes, all of which have the formula, $CH_3O—C_5H_8—Cl$, while dissolved in a solvent from the class consisting of acetonitrile and dimethylformamide, with finely divided iron at a temperature from 20° C. to the refluxing temperature of the mixture, said iron being in such a finely divided form as to pass through a No. 140 U. S. Standard sieve and being present in an amount equal to at least one-half mol per mol of said methoxychloropentenes.

2,658,083

SELECTIVE HYDROGENATION OF OXO-PROCESS ALDEHYDES

Donald E. Burney, Griffith, Ind., and William J. Cerveny, Lansing, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application April 26, 1951, Serial No. 223,124
10 Claims. (Cl. 260—638)



1. In a process for selectively hydrogenating aldehydes in a mixture containing aldehydes and olefins obtained by subjecting a secondary olefin-tertiary olefin copolymer to reaction with carbon monoxide and hydrogen, the step which comprises contacting said mixture with hydrogen at a temperature between about 150 and 700° F. an elevated pressure above about 500 pounds per square inch, and a liquid space velocity between about 0.1 and 5.0 volumes of charging stock per volume of reaction zone per hour in the presence of a cobalt catalyst.

2,658,084

METHOD FOR RECOVERY OF NITROFORM FROM A REACTION MIXTURE CONTAINING NITRIC ACID AND NITROFORM

Gustav Allan Wetterholm and Ernst Lennart Nilsson, Gyttorp, Sweden, assignors to Nitroglycerin Aktiebolaget, Gyttorp, Sweden, a Swedish company

No Drawing. Application August 25, 1952, Serial No. 306,286
Claims priority, application Sweden August 28, 1951
6 Claims. (Cl. 260—644)

5. A process for producing pure nitroform, which comprises reacting acetylene with con-

centrated nitric acid, removing from the reaction mixture by fractional distillation in columns substantially excess of nitric acid present therein over the nitric acid content of an azeotropic mixture of nitric acid and water, adding an amount of water sufficient to reduce the content of nitric acid in the mixture below the azeotropic concentration thereof, distilling the mixture thus obtained in a partial vacuum, whereby vapours of practically pure nitroform and water pass over, condensing the vapors, and then recovering the nitroform from the distillate thus obtained.

2,658,085

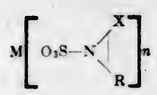
CHLORINATION OF CYCLOPENTADIENE

Morton Kleiman, Chicago, Ill., assignor to Arvey Corporation, a corporation of Illinois

No Drawing. Application September 27, 1950, Serial No. 187,140

5 Claims. (Cl. 260—648)

1. The process for preparing hexachlorocyclopentadiene which comprises reacting cyclopentadiene with an aqueous solution of an alkali-metal hypochlorite at a temperature of from about −10° C. to about 60° C., and adding to said reactants, as a catalyst, material having a sulfamic grouping and conforming with the formula



where M is a cation, n is the valence of M, X is a member of the group consisting of hydrogen and chlorine, and R is a member of the group consisting of hydrogen and a hydrocarbon group, and maintaining the reaction mixture in an alkaline condition.

2,658,086

BROMINATION OF POLYHALOMETHANES

Robert P. Ruh and Ralph A. Davis, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application July 2, 1952, Serial No. 296,927

9 Claims. (Cl. 260—653)

1. A method of brominating polyhalomethanes which comprises contacting in a heated zone at a reaction temperature in the range of 200° to 500° C. for a time sufficiently long to effect reaction, a polyhalomethane containing at least one hydrogen, at least one fluorine, and no iodine with a mixture of bromine and chlorine in a mole ratio of bromine to chlorine greater than 0.7:1.

2,658,087

CHLORINATION OF OLEFINS IN DILUTE MIXTURES

Ralph Landau, Brooklyn, N. Y., and Robert B. Egbert, Atlantic Highlands, N. J., assignors, by mesne assignments, to Chempatents, Inc., New York, N. Y., a corporation of Delaware

Application June 3, 1948, Serial No. 30,794

6 Claims. (Cl. 260—662)

1. A process for the manufacture of olefin dichlorides from gaseous mixtures containing from 0.5 to 20 percent by volume of olefin together with inert gas and a volume of other hydrocarbons and hydrogen in excess of the volume of olefin, which process comprises contacting said gaseous mixture with chlorine in a reaction zone at a temperature in the range of −10° to 100° C., the amount of chlorine being in the range of from 0.7 to 0.98 mol per mol of olefin, the chlorine being introduced at spaced intervals along the reaction zone with the first introduction containing the major portion thereof, whereby the presence of a stoichiometric excess of chlorine at any point in



the reaction zone is avoided, introducing cooled liquid olefin dichloride at spaced intervals along the reaction zone to condense the olefin dichloride formed therein, and withdrawing condensed olefin dichloride at intervals along the reaction zone to maintain the concentration of olefin dichloride in the reaction zone below the saturation point.

2,658,088

CHLORINATION OF ETHYLENE IN DILUTE MIXTURES

Ralph Landau, Brooklyn, N. Y., and Robert B. Egbert, Atlantic Highlands, N. J., assignors to Chempatents, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application January 25, 1949, Serial No. 72,762

4 Claims. (Cl. 260—662)

1. A process for the manufacture of ethylene dichloride from gaseous mixtures containing from 0.5 to 5% by volume of ethylene and a major portion of inert gases, said ethylene being the major reactive component thereof, which process comprises contacting said gaseous mixture with chlorine at an elevated pressure in the range of 15 to 500 pounds per square inch gauge in a reaction zone maintained in a gaseous phase at a temperature in the range of 60 to 100° C., the amount of chlorine being about 1.05 mols per mol of ethylene and being introduced at spaced intervals along the reaction zone with the first introduction containing the major portion thereof, maintaining the concentration of ethylene dichloride in the reaction zone below the saturation point by condensation and withdrawal thereof at intervals along the reaction zone, said condensation being effected by introducing cooled ethylene dichloride into the reaction zone at appropriate intervals therealong, whereby a high yield of ethylene dichloride end product is obtained, and recovering said end product.

2,658,089

DEHYDROGENATION OF A GEM ALKYL ARYLCYCLOHEXANE

Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application April 28, 1950, Serial No. 158,912

17 Claims. (Cl. 260—668)

1. A process which comprises dehydrogenating a 1-alkyl-1-arylcyclohexane in the presence of a dehydrogenation catalyst and an acid-acting isomerizing catalyst to form a fused ring polycyclic hydrocarbon having at least one ring more than said 1-alkyl-1-arylcyclohexane.

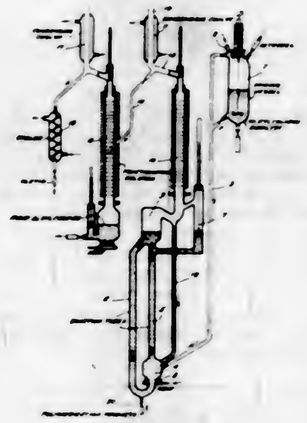
2,658,090

PRODUCTION OF OLEFINS BY DECHLORINATION OF ALKYL CHLORIDES

Nikolaus Geiser and Helmut Kolling, Duisburg-Hamborn, Germany, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen Holten, Germany, a German corporation

Application February 15, 1950, Serial No. 144,254

11 Claims. (Cl. 260—677)



1. Method for the production of olefins by dechlorination of alkyl chlorides, which comprises mixing alkyl chloride having less than 20 carbon atoms selected from the group consisting of single alkyl chlorides and mixtures of alkyl chlorides not varying in molecular size by more than 1 carbon atom, with an aluminum hydrosilicate in the liquid phase, maintaining the liquid mixture at a temperature of about 180–250° C., while substantially continuously distilling therefrom gaseous hydrogen chloride and olefins, and removing polymerization products from the liquid mixture.

2,658,091

PLASTICIZING RUBBER

Maynard F. Torrence, Woodstown, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 22, 1952, Serial No. 267,703

10 Claims. (Cl. 260—761)

1. A process for improving the plasticity of unvulcanized rubber which comprises homogeneously incorporating into the rubber from 0.001% to 0.05% of a substantially neutral nickel dithiocarbamate and from 0.01% to about 1.0% of a di(ortho-acylaminoaryl) disulfide, both based on the weight of the rubber, and working the rubber until the desired degree of plasticity is obtained.

2,658,092

RUBBER PROCESSING

Bernard C. Barton, Clifton, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application March 30, 1951, Serial No. 218,517

8 Claims. (Cl. 260—763)

1. A method of manufacturing rubber products having low torsional hysteresis and high electrical resistivity which comprises incorporating a small amount of chloranil in a well-blended mixture of rubber and a rubber-reinforcing carbon black at a temperature substantially below 250° F., said temperature being so low as to prevent thermal decomposition of said chloranil and to prevent reaction of said chloranil with the rubber, subsequently heat-treating the mixture containing said chloranil at a temperature substantially above 250° F. but insufficiently elevated to substantially injure the properties of the rubber, continuing said heat-treating for a time sufficient to substantially lower the torsional hysteresis and substantially increase the electrical resistivity of a vulcanizate of the resulting mixture, said heat-treating step being conducted in the absence of ingredients capable of vulcanizing rubber other than said chloranil, masticating the mixture and incorporating vulcanizing and other desired ingredients, shaping the mixture and vulcanizing the shaped mixture.

ELECTRICAL

2,658,093

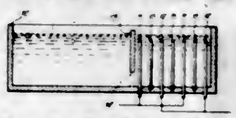
MANUFACTURE OF GLASS

Pierre Henri La Burthe, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France

Application August 15, 1949, Serial No. 110,276

Claims priority, application France August 17, 1948

7 Claims. (Cl. 13—6)



1. A glass furnace having a channel with walls between which glass flows during its manufacture, said furnace having a barrier separating the working zone from the preceding zone of the furnace, said barrier having a small connecting conduit between said zones, and narrow electrodes in said working zone standing submerged in a line before said wall, alternate live electrodes in said line being of opposite polarity, and means to supply said electrodes with current of heating intensity.

2,658,094

COMBINED ELECTRODE AND SKIMMER FOR ELECTRIC GLASS MELTING FURNACES

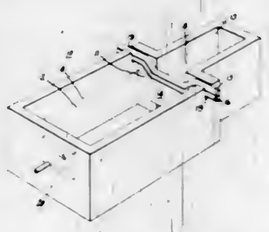
Gordon C. Nonken, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application May 10, 1950, Serial No. 161,098

4 Claims. (Cl. 13—6)

4. A continuous electric glass melting furnace comprising bottom and side walls forming a first melting compartment for the insertion of raw materials and a second communicating compartment from which molten glass is withdrawn, a tubular member made of electrically conductive heat resistant material extending across and supported on opposite ones of said side walls at the junction of said compartments and having its

lower edge extending below the surface of the molten glass in said compartments, means for passing a cooling fluid through said tubular member, a substantially rectangular plate electrode made of electrically conductive heat resistant material having an upper edge solidly joined to the lower edge of said tubular member so as to be supported by said tubular member and hang therefrom downward with its upper edge below the surface of the molten glass in said compartments so as to be completely submerged therein, said plate electrode extending substantially com-



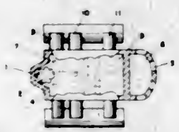
pletely across the side walls of said second compartment but having its lower edge spaced from said bottom wall thereby to form with said tubular member a combined electrode and skimmer barrier wall between said compartments providing for the flow of molten glass into said second compartment only through the space below said plate electrode, at least one additional electrically conducting electrode in said melting compartment in contact with the molten glass, and electric connections for connecting said electrodes to an electric supply source.

2,658,095

PROCESS AND APPARATUS FOR MAKING GLASS

Pierre Arbeit, Paris, Robert Dubois, Bagneaux-sur-Loing, and Roger Emile Lambert, Paris, France, assignors to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France

Application July 7, 1945, Serial No. 603,727
In France May 5, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires May 5, 1964
15 Claims. (Cl. 13—6)



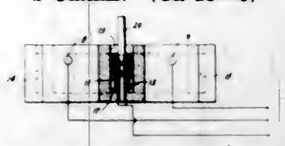
1. A method for the manufacture of glass which comprises heating the glass making materials during the beginning of the melting operation by any suitable means other than the passage through the glass bath of an electric current supplied by electrodes, heating the glass bath during the following period of the melting operation by an electric current supplied to said bath by electrodes in contact with it, the contact of the glass with the electrodes being ended at the end of the melting operation, then refining said glass by any suitable heating means other than the passage through it of an electric current supplied by electrodes.

2,658,096

APPARATUS FOR THE MANUFACTURE OF MULTICELLULAR GLASS

Ivan Peyches, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France

Application March 4, 1946, Serial No. 651,775
Claims priority, application France March 5, 1945
2 Claims. (Cl. 13—6)



2. A glass furnace having a main tank and a doghouse connected thereto by a passage at the bottom of the tank, two electrodes of a three phase system in said tank, an electrode of said system in said doghouse, the said electrodes being proportioned to produce normal melting temperature in the tank and bubble forming temperature in the vicinity of the electrode in the doghouse, said doghouse electrode being tubular and extending from near the liquid level through the bottom of the tank and serving to draw off the bubbly glass that gathers on the surface of the liquid.

2,658,097

MANUFACTURE OF POSITIVE PLATES FOR LEAD STORAGE BATTERIES

Joseph A. Orsino, Mountain Lakes, N. J., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application June 7, 1952, Serial No. 292,397
5 Claims. (Cl. 136—27)

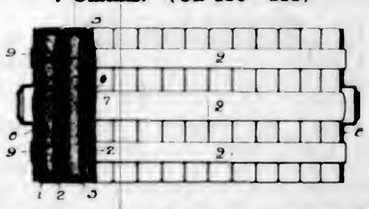
1. A method of manufacture of positive plates for lead-acid storage batteries which comprises applying an oxidizing solution to the prepared plates, said oxidizing solution comprising an aqueous solution of a compound selected from the group consisting of alkali metal peroxides, hydrogen peroxide and alkaline hydrogen peroxide, so as to form a thin deposit of lead peroxide on the surface of the active material in said plates, whereby the positive plates may be completely and rapidly formed in a battery formation electrolyte of high specific gravity.

2,658,098

DRY BATTERY WITH CONDUCTIVE TAPE INTERCELL CONNECTIONS

Joseph J. Coleman, Freeport, and Sam Kurlandsky, Rock Island, Ill., assignors to Burgess Battery Company, Freeport, Ill., a corporation of Delaware

Application March 22, 1951, Serial No. 217,046
7 Claims. (Cl. 136—111)



1. In a battery comprising a plurality of juxtaposed cells, each said cell having a pair of opposite electrodes at the sides thereof which are

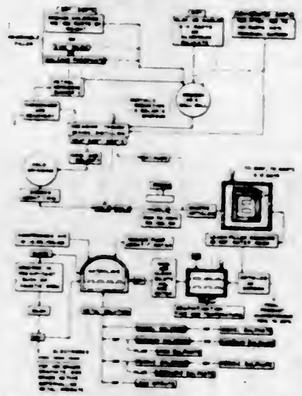
contiguous to adjacent cells, an apertured partition of non-conductive film material separating adjacent cells, and means for electrically interconnecting said cells comprising segments of electrically conductive adhesive tape spanning said apertures in said partitions and electrically engaging conductive elements of adjoining cells, said tape comprising an electrically conductive sheet material with a coating of an electrically conductive pressure sensitive adhesive material on a surface thereof.

2,658,099

MICROPOROUS CARBON AND GRAPHITE ARTICLES, INCLUDING IMPREGNATED BATTERY ELECTRODES AND METHODS OF MAKING THE SAME

Lucien Paul Basset, Montmorency, France

Application October 11, 1949, Serial No. 120,646
Claims priority, application France October 20, 1948
15 Claims. (Cl. 136—121)



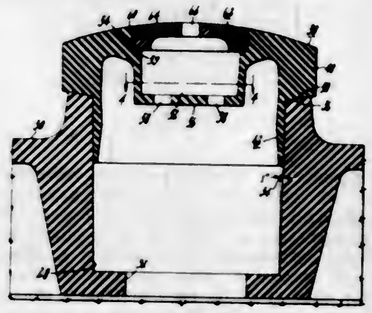
1. A fabricated shape of substantially pure carbon having a porosity characterized by pore sizes averaging below about 5 microns, an apparent density of not more than about 0.65, and said pores being uniformly distributed throughout the shape.

2,658,100

VENT CAP

Thomas L. Kendall, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 29, 1951, Serial No. 228,825
2 Claims. (Cl. 136—177)



2. A vent cap for use in combination with a storage battery cell cover which includes a filler hole therethrough having a slightly tapered wall therein with the largest diameter portion adjacent the top of the cell cover, said vent cap comprising in combination, a resilient polyethylene body member consisting of upper and skirt portions, the upper portion thereof being of a diameter greater than the diameter of said vent hole opening and the skirt comprising an annular outer wall having reversed tapers thereon with the greatest diameter being at the central point of said skirt and a smooth tapered inner bore, said skirt being a tight sliding fit into the filler plug opening wherein the diameter thereof is less than the greatest diameter of said skirt, a downwardly extending cavity carried by the body portion including an annular groove thereabout adjacent the top and a horizontal wall at the bottom thereof, said wall including a plurality of vent holes therethrough, and a disc adapted to be snapped into said groove for holding the disc in place, said disc having an aperture therethrough which is misaligned with said vent holes.

2,658,101

MOBILE RADIO CABINET STRUCTURE

Whitwell W. Coxe, Jr., Bristol, Tenn., assignor to Radio Corporation of America, a corporation of Delaware

Application January 20, 1950, Serial No. 139,709
7 Claims. (Cl. 174—51)



1. A radio cabinet structure comprising in combination, a quadrilateral chassis for mounting radio equipment comprising a shelf member having generally perpendicular flanges, quadrilateral cabinet end closure members, fastening means for firmly fixing said end closure members to opposite ends of said chassis, an L-shaped cabinet base member having inwardly directed flanges on at least two edges, an L-shaped cabinet cover member with inwardly directed flanges on at least two ends, spacing means associated with said fastening means for separating said end closure members from said chassis by at least the thickness of said flanges, and fastening elements in said flanges for holding said L-shaped members in a cooperatively embracing arrangement inside said end members thereby to provide a separable container for said equipment, which may be mounted in a plurality of positions.

2,658,102

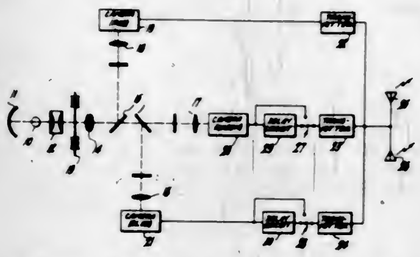
COLOR MICRO-FACSIMILE SYSTEM

Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application December 31, 1949, Serial No. 136,217
2 Claims. (Cl. 178—5.2)

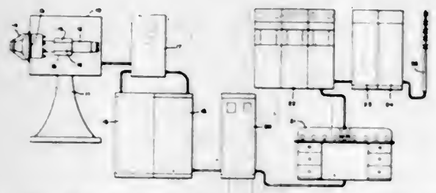
1. A color-micro-facsimile system which comprises: means for forming a plurality of component color images of subject matter to be transmitted; means for scanning each of said images to produce substantially simultaneous signals, each of said signals being representative of one of said component color images; and

delay means associated with at least one of said signal-producing means for delaying said signal an amount of time not in excess of the time of a single scanning line, such that said signals



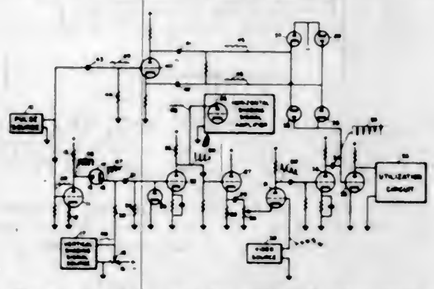
are adapted to afford registration of said component color images in a recorder having mechanical phase displacement of its recording elements.

2,658,103
TELEVISION APPARATUS
John M. Sherman and Ed Will Fisher, Minneapolis, Minn., assignors of one-third to Mid-Continent Radio-Television, Incorporated
Application April 6, 1951, Serial No. 219,634
15 Claims. (Cl. 178—5.2)



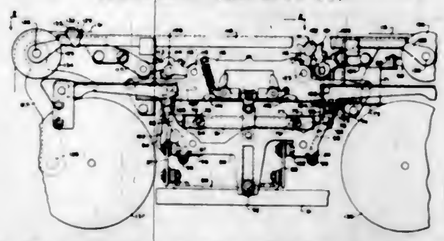
1. In television apparatus for producing color pictures, a translocating device including a lens, reflectors arranged to direct light rays entering the lens along a plurality of light paths and toward the focal plane, said reflectors serving to produce a plurality of images at the focal plane disposed in successive order, color screens in the respective light paths, a television transmitter including a camera tube having its active surface disposed substantially at the focal plane of the lens and on which all of the images are projected, deflecting coils associated with said tube and producing scanning successively across the images and in the same direction with respect to the subject matter of each image, a television receiver actuated by the energy emanating from said television transmitter and having a picture tube, deflecting coils associated with said tube and scanning in the same manner as the deflecting coils of said camera tube to produce a plurality of images at the active surface of the picture tube and corresponding with the images on the active surface of the camera tube, a superimposing device including a lens and a number of reflectors arranged to direct light rays impinging on the reflectors along a plurality of paths converging towards the lens, color screens in the respective light paths, said superimposing device being disposed with the focal plane of the lens substantially at the active surface of the picture tube and with the light rays from all of the images reaching the lens to cause superimposition of the images one upon the other and a projection screen upon which the superimposed images are projected.

2,658,104
TELEVISION SHADING SIGNAL AND CLAMPING CIRCUIT
Harry R. Smith, Glen Ridge, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application December 30, 1949, Serial No. 136,091
2 Claims. (Cl. 178—7.2)



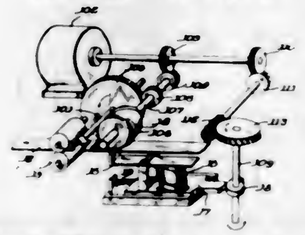
1. In a television system using a clamping circuit to clamp the television signal voltage to a predetermined level during a fixed portion of the blanking interval of each horizontal line period and having a television signal voltage generator which generates a signal voltage having shading components occurring at the vertical repetition rate; a compensating signal generator adapted to generate a signal having the same frequency as said vertical repetition rate; a source of pulses, one of said pulses occurring at said fixed portion of each horizontal line period; a pulse amplitude modulator connected to said source of pulses and to said compensating signal generator for modulating the amplitude of said pulses in accordance with said compensating signals; a mixer circuit connected to said modulator and said television signal voltage generator for combining said television signal voltage and said amplitude modulated pulses; and a clamping circuit connected to said mixer circuit for clamping said combined signal voltage to a fixed level at said fixed portion of each horizontal line period.

2,658,105
SHIFT MECHANISM
Berthel F. Madsen, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application December 21, 1951, Serial No. 262,795
6 Claims. (Cl. 178—25)



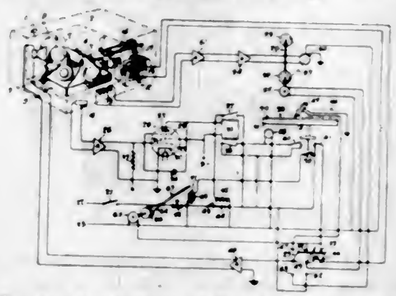
1. In a recorder, a type carriage comprising a plurality of character elements arranged in lower case and upper case groups, permutation means responsive to received code combinations of selecting conditions for selecting a character element in each of said groups, toggle shift means for case shifting said carriage, one toggle shift means associated with each of said groups, common actuating means for both of said toggle shift means, a pair of interponents, one associated with each toggle shift means, and means controlled by said permutation means for positioning said interponents into the path of said common actuating means to render said common actuating means effective to actuate said toggle shift means selectively, whereby selection of character elements from either of said groups is facilitated.

2,658,106
FACSIMILE PRINTING TELEGRAPH SYSTEM AND APPARATUS
Rudolf Hell, Kiel-Dietrichsdorf, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Berlin-Siemensstadt and Munich, Germany, a German corporation
Application June 27, 1950, Serial No. 170,552
Claims priority, application Germany July 1, 1949
23 Claims. (Cl. 178—30)



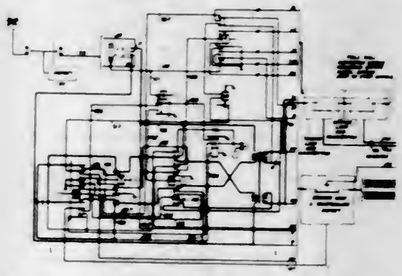
1. Apparatus for printing successive groups of signal impulses each group denoting solely a symbol exclusive of signals denoting the spacing between symbols, comprising a record member, means for continuously advancing said record member, means for successively receiving said groups of signal impulses, means for printing on said continuously advancing record member impressions corresponding to said signal impulses to form thereon the symbols corresponding thereto, and means for controlling said printing means to produce automatically the spacing between adjacent symbols.

2,658,107
TELEPHONE ANSWERING AND MESSAGE RECORDING DEVICE
Joseph J. Zimmermann, Milwaukee, Wis., assignor to The Electronic Secretary, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application September 26, 1949, Serial No. 117,759
15 Claims. (Cl. 179—6)



1. In an automatic telephone answering apparatus, a reproducer operably associated with a telephone to transmit a previously recorded message therethrough, means to close the talking circuit of said telephone to permit transmittal of said message, a relay responsive to an incoming telephone signal and connected with said reproducer and said circuit closing means to actuate the same upon receipt of said signal, and a safety device adapted to open said telephone talking circuit, said safety device being responsive to current flow in the circuit of said relay over a predetermined period of time other than the normal period of current flow therein to open said telephone talking circuit and thereby prevent interference with the telephone system in the event of abnormal operation of said relay.

2,658,108
CROSSBAR TANDEM OFFICE FOR TELEPHONE SYSTEMS
William T. Haines, Mountain Lakes, N. J., and James B. Newsom, Great Neck, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 17, 1948, Serial No. 60,502
13 Claims. (Cl. 179—16)



1. In a telephone system, a plurality of registers for registering the digits of telephonic designations, a like plurality of pairs of relays, circuit means connected to said pairs of relays simultaneously operating all of said relays, circuit means comprising selective control means and contacts of a first of said pairs of relays connecting said control means to a first of said registers for operating said first register in accordance with the first digit of a designation, relay means connected to said first register and to said first pair of relays rendered effective by the registration of any of certain digits on said first register to release said first pair of relays, circuit means comprising said selective control means and contacts of said first pair and of a second pair of said relays connecting said control means to a second of said registers for operating said second register in accordance with the second digit of a designation, relay means connected to said second register and to said second pair of relays rendered effective by the registration of a digit of any value on said second register to release said second pair of relays, circuit means comprising said selective control means and contacts of said first and said second and of a third pair of said relays connecting said control means to a third of said registers for operating said third register in accordance with the third digit of a designation, and relay means connected to said first register and to said third pair of relays rendered effective by the registration of a digit of a predetermined particular value on said first register to release said third pair of relays.

2,658,109
AUTOMATIC TELEPHONE SYSTEM
Frank Kessler, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application December 31, 1949, Serial No. 136,239
6 Claims. (Cl. 179—18)

1. In a telephone system, a calling party, a called party, an operator, a two-motion switch

having a set of wipers movable in first and second directions and having a number of numerical contact levels giving access to said called party after movement of said wipers in the first and second directions and a normal contact level giving access to said operator upon movement of said wipers in the second direction without movement in the first direction, numerical pulse transmitting means controlled by said calling party, timing means, means associated with said switch and effective upon seizure of said switch and receipt of numerical pulses from said pulse transmitting means to cause said wipers to be moved



in the first and second directions and set upon circuits in said numerical levels for establishing connection between said calling party and said called party, means operative to cause said wipers to be moved in the second direction only to cut in on said normal level and establish a connection between said calling party and said operator, and means associated with said last named means and said timing means for causing said last named means to be operated by said timing means if no numerical pulses have been received within a predetermined time after seizure of said switch.

2,658,110

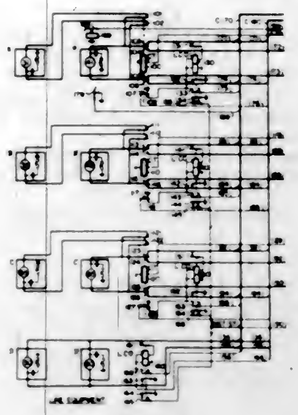
PARTY LINE SELECTIVE SIGNALING SYSTEM HAVING CODE AND CONFERENCE CALL

Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Original application December 30, 1947, Serial No. 794,601. Divided and this application April 12, 1950, Serial No. 155,546

13 Claims. (Cl. 179—18)

1. In a telephone system, a plurality of subscriber lines included in a conference group, a relay common to said lines and individual to said group, a conference circuit individual to each of said lines, means responsive to the initiation of a conference call for said conference group for operating said common relay, a cut-through relay in each conference circuit operated in response to the operation of said common relay for connecting each line to its conference circuit, a ringing circuit individual to each conference circuit, means controlled in response to the operation of each said cut-through relay for connecting said ringing circuit to the corresponding line to signal a subscriber thereat, a ring cut-off relay in each conference circuit operated in response to each subscriber answering said signal for disconnecting said ringing circuit, a battery-feed relay individual to each conference circuit, said battery feed relay operated in response to the operation of its corresponding ring cut-off relay for feeding talking battery to the corresponding line, a circuit in each said conference circuit controlled jointly by said operated ring



cut-off relay and said battery feed relay therein for maintaining said cut-through relays operated, multiple circuits extending from each of said battery feed relays for maintaining said common relay operated, and individual locking circuits for said ring cut-off relays extending from said common relay.

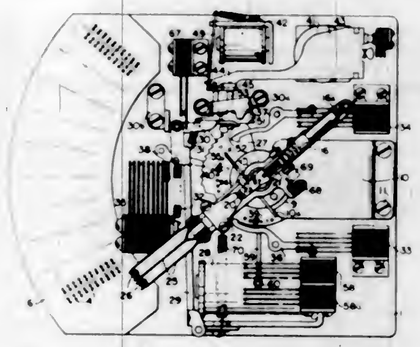
2,658,111

SWITCHING APPARATUS

Kenneth W. Graybill, Elmhurst, and Hans Sengebusch, Villa Park, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application May 16, 1950, Serial No. 162,334

16 Claims. (Cl. 179—27.52)



1. In an electromagnet, a magnetic structure comprising a heelpiece and pole-piece with curved ends spaced apart and in registry one above the other, a correspondingly curved armature, means pivotally mounting said armature for rotation about one axis, and means rotatably mounting the same for movement about a second axis perpendicular to said first axis, both mountings independent of said heelpiece and pole-piece, said pivotal mounting means arranged in substantially the same plane as said heelpiece.

2,658,112

ELECTRICAL SIGNALING SYSTEM

Alan Davison and Ronald Threadgold, Liverpool, England, assignors to Automatic Telephone & Electric Company Limited, Liverpool, England, a British company

Application April 12, 1950, Serial No. 155,488

Claims priority, application Great Britain May 5, 1949

7 Claims. (Cl. 179—84)



1. In a signal receiver subjected to at least one signal frequency current and to complex currents which include said signal frequency, the combination of a guard circuit, means in said guard circuit for generating a biasing voltage in response to the reception of said complex frequency currents, at least one amplifier for amplifying said signal frequency current, a negative feedback circuit in said amplifier, a filter circuit having a maximum response to currents of said signal frequency and included in said feedback circuit, at least one signal receiving circuit, means for applying the output from said amplifier to said signal receiving circuit and means for applying said biasing voltage to said amplifier to cut off said amplifier in response to the reception of said complex currents.

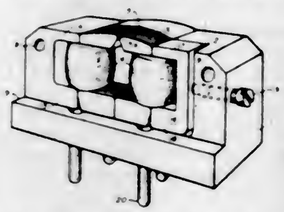
2,658,113

MEANS FOR IMPROVING THE PERFORMANCE OF MAGNETIC SOUND RECORDING AND REPRODUCING HEADS

Lynn C. Holmes, Fairport, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York

Application October 3, 1949, Serial No. 119,359

7 Claims. (Cl. 179—100.2)



1. In a magnetic head, a core comprising a plurality of laminations of magnetic material disposed side by side and provided with a gap extending transversely of said laminations across one edge of said core, and means for maintaining said laminations in predetermined positions in order to obtain uniform performance of said head including means bearing against substantial areas of the ends of each of said laminations for applying longitudinal pressure on each of said laminations.

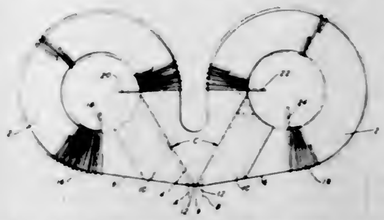
2,658,114

MAGNETIC RECORDING-REPRODUCING DEVICE

Frederick G. Buhrendorf, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 26, 1952, Serial No. 306,423

11 Claims. (Cl. 179—100.2)



1. An electromagnetic transducer comprising a pair of transformer cores, a bridge member joining said cores to form a unitary structure, a pair of grooves in said bridge member, a first winding on each of said cores, said windings being endless, a second winding on each of said cores, each of said endless windings including a segment individually disposed in one of said grooves.

2,658,115

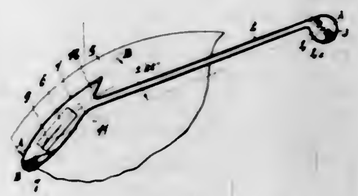
PHONOGRAPH PICKUP

Hubertus Jan Smits, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application June 22, 1950, Serial No. 169,617

Claims priority, application Netherlands July 9, 1949

2 Claims. (Cl. 179—100.41)



1. A phonograph pick-up comprising a head, a pivot at right angles to a record to be played, an elongated arm connected to said head and adapted to rotate about said pivot, a needle located in said head, the plane relative to which the needle oscillates symmetrically in a lateral direction is at a right angle to the plane of said record to be played and at an angle of less than 30° with a second plane perpendicular to said record and passing through said pivot and said needle, said elongated arm having a low rigidity against torsion thereby giving a mechanical torsion resonance frequency of less than 200 cycles per second, said pick-up having a weight of less than 35 grams with its mass located principally in said head and distributed so that the masses on either side of said second plane are substantially equal.

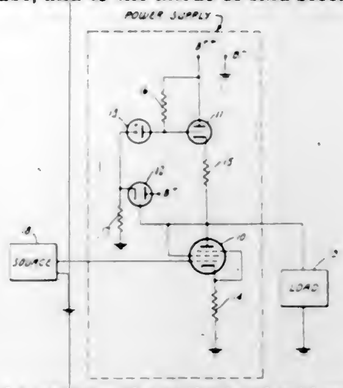
2,658,116
TELEPHONE HANDSET HOLDER
Vincent J. Skantze, Detroit, Mich.
Application February 15, 1951, Serial No. 211,069
2 Claims. (Cl. 179—146)



1. For a French type of telephone stand having a cradle for holding a telephone hand set and further having a side opening recess below the cradle, a demountable attachment therefor for temporarily supporting the hand set and composed of a single length of spring wire bent generally into a U-shaped formation, the two legs of the U being similarly formed and each divided longitudinally into an inner wire section and an outer wire section and an intermediate wire section connecting the inner and outer wire sections together, the inner wire sections of the legs extending substantially straight and in substantially parallel relationship spaced apart sufficient to enter the recess of the telephone stand and rest on the bottom thereof, the outer wire sections of the legs being similarly concavely formed and in substantially parallel spaced apart relation and cooperating together to form a cradle upon which the hand set is supportable, the connecting intermediate sections of the legs extending substantially vertically and connected at their lower ends to the inner wire sections and connected at their upper ends to the outer wire sections and disposing the latter in vertically elevated relation to the inner sections, the closed end of the U being constituted by a substantially straight wire section forming a transverse bar, and short backwardly and upwardly bent wire sections connecting the opposite ends of the transverse bar to the rear ends of the inner straight wire sections of the legs and positioning the bar on a level thereabove but no higher than the level of the cradle formed by the outer wire sections, said bar being so positioned with respect to the inner straight wire sections of the attachment that when these sections are inserted into the recess of the telephone stand the bar is abuttingly engageable with the underside of the top wall of the recess and cooperates with the inner wire sections to support the attachment in laterally projecting relation to the telephone stand.

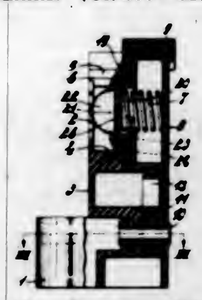
2,658,117
HIGH IMPEDANCE POWER SUPPLY
David E. Sunstein, Cynwyd, and Allen C. Munster, Hatboro, Pa., assignors to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application November 16, 1949, Serial No. 127,614
4 Claims. (Cl. 179—171)

1. A high-impedance alternative-current power supply comprising a first vacuum tube having at least anode, cathode and control grid electrodes; means for applying a unidirectional plate-supply voltage to the anode of said first tube, said means including a second vacuum tube having at least anode, cathode and control grid electrodes, said cathode of said second tube being connected to said anode of said first tube by way of a resistor; means for maintaining said control grid of said second tube at a predetermined potential with respect to the anode of said first tube, said last-named means comprising a voltage-regulator tube having anode and cathode electrodes and a cathode-follower circuit, said circuit including a tube having at least anode, cathode and control grid electrodes, the anode of said regulator tube being connected to the control grid of said second tube, and to the anode of said second tube



by way of a resistor, the cathode of said regulator tube being connected to the cathode of said tube in said cathode-follower circuit, and the control grid of said cathode-follower tube being connected to the anode of said first tube; means for applying an alternating-current signal to the control grid of said first tube; and means for taking an output load current from the anode of said first tube.

2,658,118
ELECTRIC LAMP HOLDER
Charles Henri Joseph Anderson and Johannes Hendricus Franciscus van Werd, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 2, 1950, Serial No. 177,261
Claims priority, application Netherlands August 11, 1949
4 Claims. (Cl. 200—51.07)



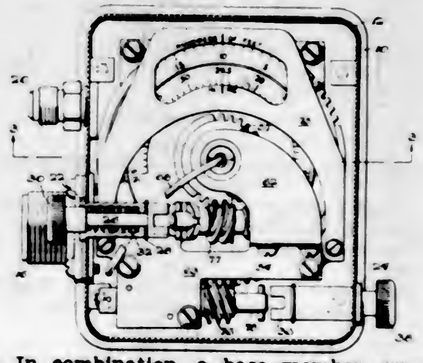
1. A lampholder for use with an elongated tubular lamp having a given longitudinal axis and a terminal cap at each end with a contact thereon, comprising a housing of insulating material defining an arcuate seat lying in a plane substantially perpendicular to said longitudinal axis, a fixed contact within the housing, a longitudinally-displaceable member rotatable within the housing and having an arcuate surface portion adapted to engage said seat, a contact on said rotatable member adapted to engage the terminal cap upon insertion of the latter into the housing, means operative upon rotation of said rotatable member to effect an electrical connection between the terminal contact and the fixed contact, and resilient means urging said rotatable member against said seat and against said terminal cap when the latter is inserted into the housing to insure positive contact and proper alignment of the rotatable member and the terminal contact.

2,658,119
TIRE AIR INDICATOR APPARATUS
Jeré K. Jacobus, Port Huron, Mich.
Application January 7, 1950, Serial No. 137,373
19 Claims. (Cl. 200—61.25)



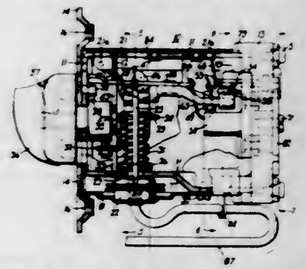
1. In a gas indicator apparatus for a normally closed chamber, means for controlling an electrical signal circuit, said means comprising means defining a cylinder closed at one end, said cylinder having an opening in spaced relation to said closed end and adapted to communicate with said chamber, piston means mounted in said cylinder intermediate said opening and said closed end, said piston means fitting said cylinder to prevent gas from flowing past said piston means and being freely movable along said cylinder in response to a balancing of the gas pressure in said cylinder at the opposite sides of said piston means, electrical conductor means adapted to form a part of said signal circuit, said piston means including an integral portion movable to engage said conductor means to close said signal circuit throughout a predetermined range of movement of said piston means relative to said cylinder.

2,658,120
PRESSURE RESPONSIVE SWITCH
Donald F. Murphy, Baltimore, Md., assignor to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware
Application May 25, 1948, Serial No. 29,129
14 Claims. (Cl. 200—83)



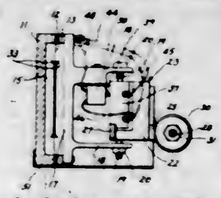
10. In combination, a base member, an expansible walled member cooperating with said base member to define an evacuated chamber, a pair of contacts situated within said chamber engageable and disengageable in response to expansion and contraction of said chamber, first means controlling the relative spacing of said contacts, means for indicating the setting of said first means, and second means for controlling the relative spacing of said contacts.

2,658,121
CONDITION RESPONSIVE ELECTRIC SWITCH MECHANISM
Robert L. Gray, Schenectady, N. Y., and Charles S. Grimshaw, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application July 30, 1951, Serial No. 239,238
13 Claims. (Cl. 200—83)



1. An electric switch mechanism comprising, support means, an operating lever pivotally mounted for movement between two positions, a fixed contact member secured to said support means, an elongated flexible member secured to said support in operative relation with said operating lever and arranged for movement by said lever, movable contact means forming a portion of said flexible member and arranged to engage said fixed contact member, said contacts being open in one of said positions of said operating lever and closed in the other said position, spring means biasing said lever continuously toward the contacts closed position, said spring means providing an increasing component of force tending to close the contacts as the lever moves from the contacts open position toward the contacts closed position, additional spring means biasing said lever continuously toward the contacts open position, said additional spring means normally overpowering said first spring means and holding said contacts open, and condition responsive means for counteracting said additional spring means sufficiently that said first spring means cause said contacts to close with a snap action.

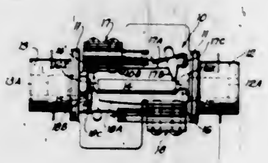
2,658,122
PRESSURE SWITCH
Richard R. Stein, Cleveland, Ohio, assignor to Cleveland Fuel Equipment Company, Cleveland, Ohio
Application January 27, 1950, Serial No. 140,853
2 Claims. (Cl. 200—83)



1. A control device comprising a frame, a balance member pivotally disposed on the frame.

a first switch mounted on said frame, a second switch mounted on said balance member, each of said switches having separate operating members, the operating members of the respective switches being located in constant abutting relationship to each other, one of said switches requiring greater force for its operating than the other thereby providing an interval between operation of the two switches.

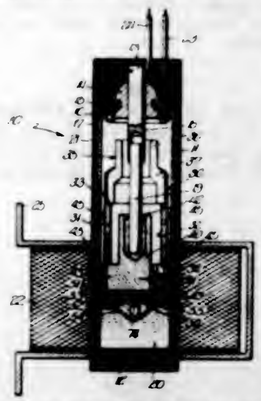
2,658,123
HOLDING RELAY
Walter Von Stoesser, Lake Villa, Ill., assignor to Lectromatic Devices, Inc., a corporation of Illinois
Application September 14, 1950, Serial No. 184,849
3 Claims. (Cl. 200—100)



1. A holding relay including a base, oppositely facing integral end plates on said base, a pair of axially aligned and spaced solenoids mounted on said base, each on one of said plates, a plunger reciprocable in said solenoids responsive to alternate energization thereof, integral flange means on said base on opposite lateral sides of said plunger, at least two stack switches one of each being carried on one of said flanges to extend in approximate parallelism alongside said plunger, at least two detent notches in said plunger one of the same being situated adjacent each solenoid, and each said switch having an actuator blade with a free end opposite one of said notches with a lateral offset movable into and out of the corresponding notch and adapted to ride on said plunger when not in the notch, said notches being situated such that reciprocatory movements of the plunger responsive to energizations of the solenoids as aforesaid will cause said detents to ride into and out of their respective notches to actuate the corresponding switches.

2,658,124
MERCURY RELAY
Glen L. Weimer, Elkhart, Ind., assignor to Durakool, Inc., Elkhart, Ind., a corporation of Indiana
Application November 15, 1951, Serial No. 256,492
6 Claims. (Cl. 200—97)

1. A plunger for use in a tubular relay body of a displacer type mercury relay to displace a body of mercury contained therein, comprising, a hollow, substantially tubular, open-ended, metal sleeve of magnetic material, a hollow, first insulating member mounted coaxially within the upper end of said sleeve, a second insulating member mounted coaxially within the lower interior of said sleeve and positioned radially inward thereof and having means defining a passageway for the mercury, and a combined metering and check valve means positioned transversely across the lower end of said sleeve and beneath said second insulating member, said valve means having an arcuately removable resilient flapper arranged to permit the free flow of mercury therepast upon movement of said plunger in one direction and to meter the mercury



therepast upon movement of said plunger in an opposite direction.

2,658,125
CABLE SAFETY FUSE
Edward C. Whitfield, Kitts, Ky.
Application December 31, 1952, Serial No. 328,839
6 Claims. (Cl. 200—113)

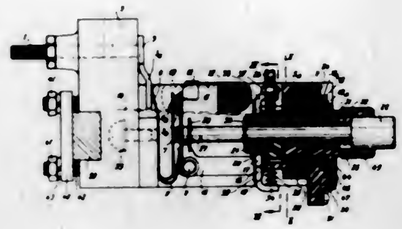


1. The combination in a trailing cable for mine locomotives and the like, of a fuse unit comprising a pair of conductive terminal members adapted to support a conductive fuse link having notched ends therebetween, said terminal members each having a portion to be secured in electrical contact with the core of said trailing cable to interpose said fuse link in series therein and a contact portion to be held in electrical contact with an end of said fuse link, a pair of laterally spaced tension-bearing blocks of insulating material extending between said terminal members and defining a space between said blocks for the reception of said fuse link, said tension-bearing blocks being secured at their ends to said terminal members whereby tensional strain in said trailing cable is transmitted through said blocks, mounting members on said terminal members to be received in the end notches in said fuse link and support the same in electrical contact with said terminal members, housing means supported by said trailing cable and surrounding said fuse link and terminal members, a portion of said housing being removable from surrounding relation with said blocks and terminal members to permit replacement of said fuse link.

2,658,126
MEANS FOR ADJUSTING THERMOSTATIC RELAYS
Raymond Filliette, Rueil-Malmaison, France, assignor to La Télémécanique Electrique (Société Anonyme), Seine, France, a French company
Application June 17, 1952, Serial No. 294,087
Claims priority, application France August 31, 1951
16 Claims. (Cl. 200—116)

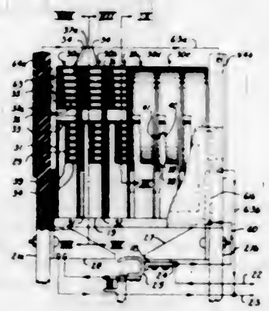
1. In a relay of the type described having contact means trippable between two conditions in

response to a predetermined value assumed by a controlling factor, adjusting means displaceable over a comparatively wide range for correspondingly varying the value of said factor to which the contact means will respond, stop



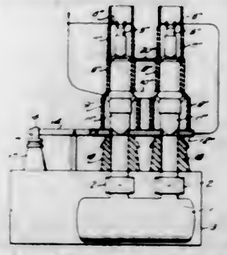
means for preventing effective displacement of the adjusting means except in a selected one of a number of relatively narrow ranges included within said wide range, and range-selecting means for selecting the narrow range in which said adjusting means is effectively displaceable.

2,658,127
CIRCUIT BREAKER
Howard M. Strobel, New York, N. Y.
Original application June 8, 1945, Serial No. 598,269, now Patent No. 2,564,178, dated August 14, 1951. Divided and this application July 16, 1951, Serial No. 236,995
7 Claims. (Cl. 200—147)



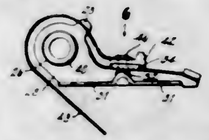
1. In a circuit interrupter, means for drawing a main arc between a pair of separable contact members, means for dividing said main arc into a plurality of series related primary arc elements, means for extending and orienting at least one of said primary arc elements to a position substantially at right angles to the main arc path, means for dividing at least one of said oriented primary arc elements into a plurality of series related secondary arc elements, and means for radially rotating at least one of said secondary arc elements along a closed recurrent arc running path between spaced conducting members around an axis substantially parallel to that of the main arc path until extinguished.

2,658,128
COMPRESSED AIR CIRCUIT BREAKER
Haakon Forwald, Valhalla, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application August 4, 1949, Serial No. 108,522
Claims priority, application Sweden August 7, 1948
3 Claims. (Cl. 200—148)



3. A compressed air circuit breaker comprising a plurality of main breaker gaps arranged side by side, means electrically connecting said gaps in series with each other, an equal number of bridging contacts, means electrically connecting said bridging contacts in parallel with said breaker gaps, passages for the supply of compressed air to said bridging contacts, and a passage for the supply of air from each of said bridging contacts to one of said breaker gaps to supply air in parallel to said main breaker gaps from said bridging contacts.

2,658,129
BREAKER ARM
Charles A. Nichols and Arnold E. Riggs, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 27, 1951, Serial No. 248,502
7 Claims. (Cl. 200—166)

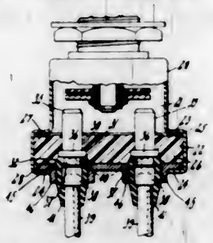


1. A circuit breaker arm formed from a blank of sheet metal to provide a pair of longitudinally extending leaves joined by a bead; and means for mounting a rubbing block on said arm comprising a rivet disposed between said leaves and having an expanded portion disposed against the inside of said bead.

2,658,130
TERMINAL
Kenneth E. Bondurant, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 26, 1951, Serial No. 253,262
5 Claims. (Cl. 200—168)

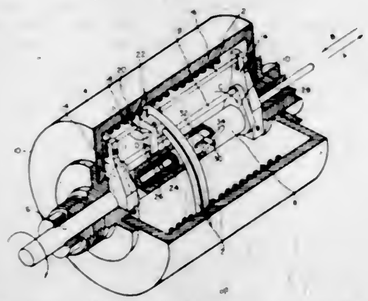
1. In an electrical unit comprising; a casing having a continuous internal abutment; a body of insulating material; a ring of yieldable material under compression disposed between the abutment and the body, said body having at least one counterbored opening therein to provide a shoulder; a terminal having one end extending through the opening and having a collar engaging the shoulder the other end of the terminal providing spaces below the collar between the terminal and the body; a cable having an electrical connection

with said other end of terminal; a plate having a sleeve portion separated from said other end of the terminal and the cable by a substantial clearance; a flanged bushing of yieldable compressed material disposed about said other end of the terminal and the adjacent end of the cable, said bushing completely filling the spaces be-



tween the terminal and body and the spaces between the sleeve of the plate and the terminal; and means including associated portions of the casing to associate the plate with the casing and for keeping the yieldable ring and the bushing under compression and also for maintaining the lower end of the bushing in sealing engagement with the cable.

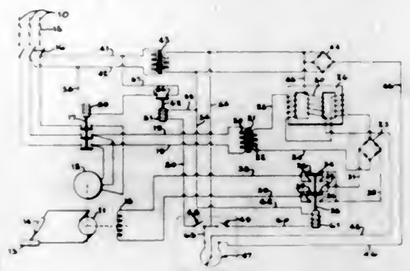
2,658,131
CIRCULAR SLIDE WIRE RESISTANCE ELEMENT
Edward A. Hamacher, Irvington, and Kurt Lowitzsch, Yonkers, N. Y., assignors to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y.
Application November 22, 1952, Serial No. 322,018
6 Claims. (Cl. 201—56)



1. A helical slide wire resistance element comprising a main drive shaft, a sleeve rotatable about said drive shaft, a pivoting brush contact holder being provided with a brush contact which is adapted to contact said wire resistance element when said sleeve operatively engages said brush contact holder upon rotation of said sleeve in a predetermined direction and rod means within said main drive shaft for coacting with said sleeve to enable said brush contact to engage and disengage said wire resistance element.

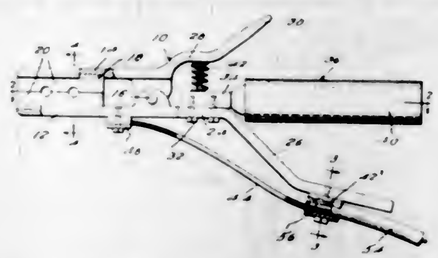
2,658,132
REMOTE-CONTROL SYSTEM FOR DIRECT CURRENT WELDING
Claude A. Welch, Cincinnati, Ohio, assignor to Welch Electric Company, Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application January 6, 1950, Serial No. 137,215
10 Claims. (Cl. 219—4)

1. A system for remotely controlling the output of a D. C. welding generator supplying current to a pair of welding electrodes by adjustment of the generator field excitation, said system comprising; a circuit for supplying rectified A. C. energy to the generator field from a source of A. C., said supply circuit including a rectifier and a saturable reactor for controlling the A. C. input from said source to said rectifier, and a control circuit including a control winding on said satu-



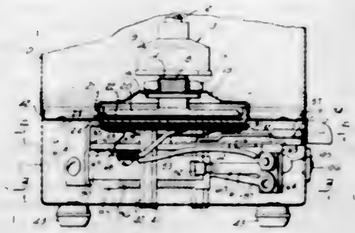
rable reactor and a variable resistance installed in the handle of one of the electrode holders whereby variation of said resistance results in control of the energy supply to said control winding, adjustment of the A. C. input to said rectifier and consequent adjustment of the rectified A. C. input to said generator field.

2,658,133
ELECTRODE HOLDER
James R. Barrow, Columbiana, Ohio, assignor to Columbiana Boiler Company, Columbiana, Ohio, a corporation of Ohio
Application July 28, 1950, Serial No. 176,307
1 Claim. (Cl. 219—8)



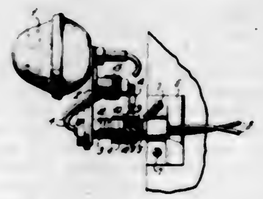
In a holder for welding electrodes, a pair of parallel elongated jaws pivoted together adjacent their inner ends, oppositely and outwardly angled extensions, constituting jew operating hand grips, projecting rearwardly from the inner ends of said jaws, a shank extending rearwardly from one of said jaws in line therewith, a hand grip of an insulating material on said shank, a coil spring interposed between the connected end of said shank and the extension of the other of said jaws to maintain the jaws in electrode gripping relation, the extension from the said one jaw being of a greater length than that of the extension from the other jaw, a clamp mounted on the outer side of the said one jaw to secure a bared end of an electrical conductor thereto, and a second clamp mounted on the outer side of the extension from the said one jaw adjacent its free end to support an insulated portion of said conductor in spaced relation with respect to the holder to prevent interference therefrom during the manipulation of the holder and any undue heating up of portions of the holder other than the said jaws thereof.

2,658,134
AUTOMATIC COFFEE MAKER
Paul J. Kircher, Plainville, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut
Application December 14, 1949, Serial No. 132,925
13 Claims. (Cl. 219—43)



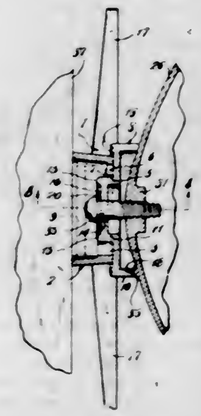
13. In an automatic coffee maker, the combination of a metallic vessel having a base comprising a centrally located struck-up portion surrounded by a substantially annular portion, a metallic generally cup-shaped member inserted in said cavity to form a pocket therebetween, a first heating element mounted in said pocket, a second heating element on the exterior of the cup-shaped member, a relatively heavy bracket of good heat conductive material fixed to the annular portion of the base and depending downwardly therefrom, means for forming an electrical connection of the heating elements to a source of electrical energy, means including a switch for varying the heating rates of said heating elements by varying said electrical connection, and a bi-metallic arm for actuating the switch mounted on the lower end of the bracket.

2,658,135
DETACHABLE LIGHT
Anderson L. Woolfolk, Pendletons, Va.
Application November 21, 1951, Serial No. 257,533
2 Claims. (Cl. 240—8.2)



2. A detachable light for motor vehicles comprising, a socket to be fixed to the vehicle, a light unit including a light, a bracket to which the light is attached and a plug by means of which the light unit may be connected to said socket, said socket and plug each having external screw threads and said bracket having a screw-threaded stud thereon, an internally threaded sleeve adapted to be threaded onto said plug and movable partially onto said socket to form a threaded union between said plug and said socket, and a threaded cap connected by flexible means to said vehicle to be threaded upon said stud when said light unit is engaged in said socket and to be threaded upon said socket when the light unit is removed therefrom.

2,658,136
HOLDER FOR AND IN COMBINATION WITH PORTABLE ELECTRIC SPOTLIGHTS AND CORDS
Joseph Morgenstern, University Heights, and Elliott Morgenstern, Cleveland, Ohio, assignors to Electroline Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 29, 1952, Serial No. 285,034
4 Claims. (Cl. 240—8.18)



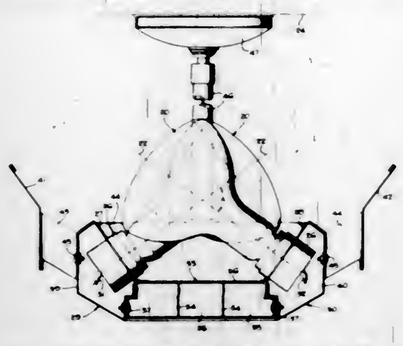
2. In combination, a portable spotlight characterized by a casing shell having a convex rear surface, the shell being provided with an aperture that opens through said surface, and with a locating lug in radially spaced relation to said aperture, and a holder for the spotlight comprising an attachment member including a body portion shaped at its forward end to fit said surface about said aperture and having a notch for the reception of said locating lug, said body portion having a substantially cylindrical peripheral surface and an annular rear wall, a substantially cylindrical boss projecting rearwardly from said wall in substantially concentric relation to the peripheral surface of the body portion, a holding element consisting of a resilient metal plate of a length greater than the diameter of said boss and of a width less than said diameter engaged with the rear end of said boss, said element and the boss having apertures adapted to be aligned with the aperture of the shell, a headed screw for projection through the apertures of said element and the boss and for threaded engagement within the aperture of the shell thereby to bind said element, member and shell together, the boss including retaining parts that engage the sides of the element for holding it against turning with respect to the boss, and a mounting member adapted to be secured to a support and enclosing a recess that opens through the front of the mounting member and is adapted to receive the boss of the attachment member, opposed segmental flanges projecting toward each other adjacent the front of said recess and being spaced apart at their ends to permit passage of the ends of the holding element when the boss is extended into the recess, said flanges having rear cam faces wherewith the ends of said element are engaged when the boss is projected into the recess and rotated about its axis.

2,658,137

LIGHTING FIXTURE HAVING ANGULARLY UPWARDLY DIRECTED SPOT LAMPS

Daniel Solomon, Los Angeles, Calif., assignor to Wagner-Woodruff Co., Los Angeles, Calif., a corporation of California

Application May 12, 1950, Serial No. 161,545
9 Claims. (Cl. 240—78)



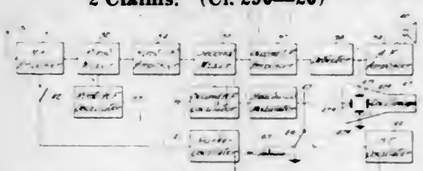
1. An elongated lighting fixture of the character described comprising: a pair of housings which extend parallel to the longitudinal axis of said fixture, a louvered structure fastened to and between said housings and maintaining the same in spaced relationship, a series of spotlights mounted at spaced intervals along and on each of said housings and above said louvered structure, the series of spotlights on one of said housings being directed to throw light beam shafts transversely of the longitudinal axis of said fixture at angles of approximately 90° with respect to the light beam shafts produced and projected transversely by the series of lights on the other housing.

2,658,138

RADIO RECEIVER

Robert E. Samuelson, Chicago, Ill., assignor to The Hallicrafters Co., a corporation of Illinois

Application December 1, 1945, Serial No. 632,269
2 Claims. (Cl. 250—20)



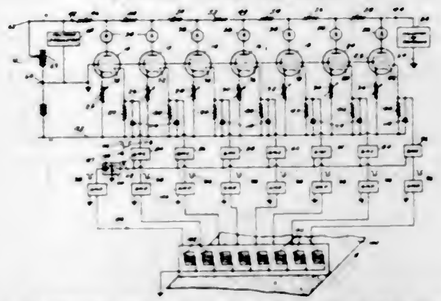
1. Radio receiving apparatus of the character described, including: apparatus including a marker oscillator providing a plurality of calibrating signals at equally spaced frequencies over a range of the receiving apparatus comprising harmonics of a fundamental frequency; a radio frequency amplifier designed to pass substantially uniformly a frequency band of at least 100 kilocycles; a first mixer coupled to the output of said amplifier; a first variable tuning oscillator coupled to said mixer and comprising the main tuning control for said apparatus, the construction and arrangement being such that signals on any selected one of a plurality of bands are heterodyned to a first intermediate frequency; a first intermediate frequency amplifier coupled to the output of said first mixer, this amplifier having relatively wide band pass characteristics, being designed to pass substantially without attenuation a band of the same order of width as that which the radio frequency amplifier is designed to pass, said band having a width of at least 100 kilocycles; a second mixer coupled to the output of said first intermediate frequency amplifier; a second variable oscillator coupled to said second mixer, said second oscillator being independently manually variable over a relatively limited predetermined frequency range comprising only a small fraction of the mean frequency of said second oscillator but at least double said fundamental frequency, and having a relatively accurately calibrated indicator associated therewith, whereby said second oscillator provides band spread tuning means providing identical frequency spread on any of said plurality of bands; a second intermediate frequency amplifier coupled to the output of said second mixer; detecting and amplifying apparatus for detecting and amplifying the output of said second intermediate frequency amplifier; and transducing means including means coupled to said detecting apparatus for providing a visual indication and means coupled to the last mentioned amplifying apparatus for providing and audible indication.

2,658,139

BINARY DECODING SYSTEM

Anthony Abate, Waltham, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application March 29, 1950, Serial No. 152,680
5 Claims. (Cl. 250—27)



1. A circuit for converting binary coded pulses to direct-current voltages comprising: a source of voltage; a plurality of resistors and a voltage-indicating device connected in series across said source of voltage from the higher to the lower potential terminals thereof; said resistors corresponding in number to the number of digits in the code and having consecutive values following a predetermined geometric progression; a plurality of constant current devices, likewise corresponding in number to the number of digits in said code; one of the ends of each of said constant current devices being connected to the lower potential terminal of said source of voltage; the other ends of said constant current devices being successively connected, respectively, to the lower potential ends of said resistors; and means for controlling the conductivity of said constant current devices in accordance with the patterns of said coded pulses.

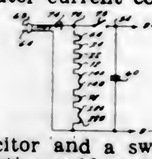
2,658,140

POWER SUPPLY FOR TRANSFORMERLESS RECEIVERS

Winfield R. Koch, Marlton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 5, 1950, Serial No. 154,148
5 Claims. (Cl. 250—27)

5. In an electronic tube system, a series string of tube heaters, a rectifier in series with said heaters, means connecting said rectifiers and heaters for current supply from a common source, and heater current control means comprising a capacitor and a switch connected in series and shunting said heaters for selectively increasing the voltage across said heaters.

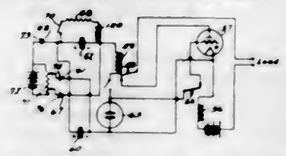


2,658,141

TIME DELAY CIRCUITS

Jerome J. Kurland and Joseph J. Kurland, Chicago, Ill.

Application January 20, 1951, Serial No. 207,039
18 Claims. (Cl. 250—27)



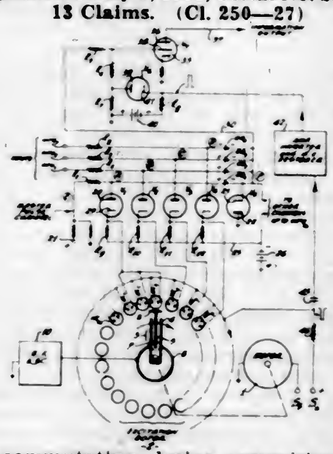
1. A timing circuit comprising an electronic tube having cathode plate and grid elements, a relatively stable source of direct current potential, an electrical device adapted to be provided with an electric charge, means to reduce said electric charge at a predetermined rate, and gap means having a predetermined minimum voltage requirement for conduction therethrough and connected in a series circuit with said source and said electrical device, with said source and electrical device connected in series opposition through the gap means whereby said electrical device opposes in polarity said stable source of direct current potential to limit current flow through said gap means until a predetermined reduction in said electric charge has been effected by operation of said charge reducing means, and means connecting said series circuit to the grid of said electronic tube.

2,658,142

HIGH-SPEED COMMUTATOR

Dale E. St. John, Long Beach, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application July 9, 1951, Serial No. 235,768
13 Claims. (Cl. 250—27)



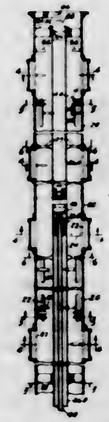
1. A commutating device comprising a rotor having a conducting area thereon adapted to be energized to produce a field extending beyond said rotor, and a plurality of gaseous discharge tubes positoned in an area adjacent the arc of said area whereby as said area is rotated said tubes will be serially exposed to the field extending from said area without contact therewith.

2,658,143

ULTRAHIGH-FREQUENCY BROADCAST ANTENNA SYSTEM

Owen Orlando Fiet, Oaklyn, and Robert Marion Scudder, Westmont, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application March 16, 1950, Serial No. 150,078
11 Claims. (Cl. 250—33)



1. An antenna system comprising a conductive tubular member having a number of slots longitudinally arranged therein, said slots each being substantially a half-wave long at the operating frequency, said number of slots being divided into groups of slots spaced at intervals of a half-wavelength at said frequency, there being a plurality of slots in each of said groups of slots equidistantly spaced about the periphery of said tubular member, a conductor concentrically arranged within said tubular member, each end of said conductor being electrically connected to said tubular member to form a length of concentric transmission line short-circuited at the ends thereof, probe elements connected to said conductive tubular member at an edge of each of said slots and projecting inwardly toward but spaced from said conductor to couple said slots to said concentric transmission line, and means to couple transducer apparatus between said conductor and said hollow conductive tubular member.

2,658,144

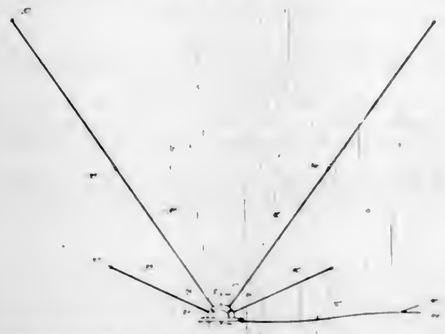
INDOOR TELEVISION ANTENNA

George P. Kearse, Chicago, Ill., assignor to American Phenolic Corporation, Chicago, Ill., a corporation of Illinois

Application July 9, 1949, Serial No. 103,835
3 Claims. (Cl. 250—33)

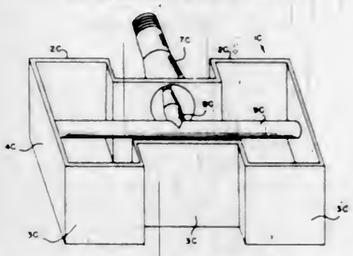
3. An indoor television antenna comprising, in combination, a relatively broad, flat, horizontally disposed base of insulating material, together with a complementary upright secured in direct engagement with and perpendicular to the base; said upright having four angularly divergent sockets lying in a common plane perpendicular to the base and each adapted to

receive and support in projecting position a rigid antenna element; a friction contact clip affixed within each of said sockets and adapted to engage the inner end of the antenna element therein, and a transmission line electrically joined to said contact clips; said antenna ele-



ments consisting of two pairs of conductive metal rods, comprising a relatively long pair disposed at an acute angle to each other and supported in two adjacent sockets, and a relatively shorter pair independently supported in other sockets and disposed at an obtuse angle with respect to each other.

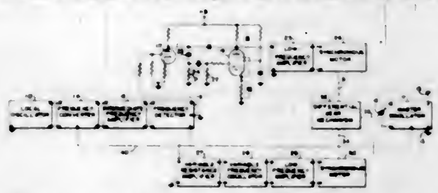
2,658,145
CAVITY ANTENNA
Arthur Dorne and David Lazarus, Cambridge, Mass., assignors to the United States of America as represented by the Secretary of War
Application January 7, 1946, Serial No. 639,653
18 Claims. (Cl. 250—33)



8. A slot antenna comprising a cavity having substantially rectangular cross sections, one non-conductive side, the remaining sides being conductive, an exciter probe in the cavity, and a conductive cylindrical bar connected to said probe and to two opposite conductive sides.

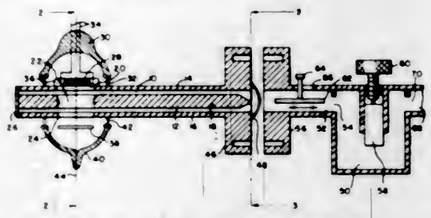
2,658,146
SERVO SYSTEM
Patrick John Jackson, Wembley, England, assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application May 10, 1950, Serial No. 161,117
Claims priority, application Great Britain May 26, 1949
1 Claim. (Cl. 250—36)

A servo system for distance measuring equipment comprising: a crystal-controlled oscillator for supplying a first signal having a substantially constant frequency; a tunable oscillator for supplying a second signal including a frequency-adjusting device; a pair of continuously rotatable synchronous motors; a differential gear mechanism for differentially connecting said pair of synchronous motors to said adjusting device to control the frequency of said second signal; a pair of variable-frequency oscillators including a pair of frequency-determining networks and coupled to the energizing circuits of said pair of synchronous motors for providing a pair of output signals to energize said pair of synchronous motors; a frequency converter coupled to said crystal-controlled oscillator and said tunable oscillator for heterodyning said first and second signals to provide a signal having a frequency equal to the frequency difference between said first and second signals; a frequency detector



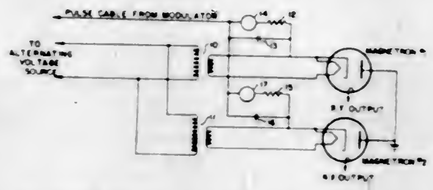
coupled to said frequency converter and said pair of variable-frequency oscillators for deriving a control effect from said difference-frequency signal; and a pair of variable-resistance amplifiers coupled between said frequency detector and said pair of frequency-determining networks for utilizing said control effect to cause said pair of variable-frequency oscillators so to control the frequencies of said output signals thereof as to determine the rotational speeds of said synchronous motors and thereby provide a predetermined frequency difference between said first and second signals.

2,658,147
TUNABLE VELOCITY MODULATION DEVICE
Kenneth T. Bainbridge, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application February 18, 1946, Serial No. 648,522
10 Claims. (Cl. 250—36)



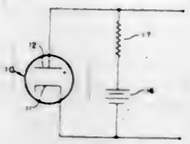
1. A variable high frequency oscillator comprising a cavity resonator, a source of electrons, means adjacent said electron source for accelerating and collecting said electrons, first and second wave guides having aligned openings therein and a drift space therebetween and mounted with said openings and said drift space defining a path from said source of electrons to said collecting means, said aligned openings and said drift space being disposed between said source of electrons and said collecting means within the electron stream so that electrons arriving at said second wave guide transfer energy to the alternating field in said second wave guide, means adjustably coupling said first and second wave guides to said cavity resonator, means coupled to said cavity resonator for adjusting the resonant frequency of said cavity resonator whereby the frequency of signals generated by said oscillator may be varied over a predetermined range, means coupled to said cavity resonator for obtaining an output signal from said oscillator, and means inclosing said source of electrons, said drift space, said collecting means, and at least a portion of said first and second wave guides so that any desired pressure may be maintained within the inclosed space.

2,658,148
GENERATOR COUPLING CIRCUIT
John E. Evans, Oak Hill, Ohio, and Foster F. Rieke, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application February 18, 1946, Serial No. 648,523
5 Claims. (Cl. 250—36)



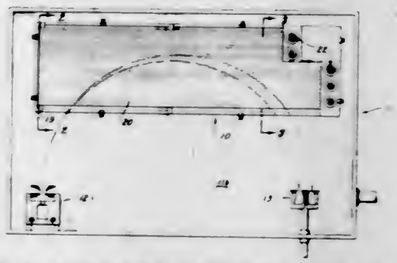
1. In combination, a plurality of magnetrons for generating high frequencies, an output transmission line means, and a plurality of connecting transmission line means, each of said connecting transmission line means coupling one of said high frequency magnetrons to said output transmission line, the distance between any one of said high frequency magnetrons and any other of said high frequency magnetrons as measured along said connecting transmission line means being effectively an integral number of half-wavelengths, said wavelengths being those occurring within said connecting transmission line means.

2,658,149
GAS TUBE NOISE GENERATOR
Charles J. Gallagher, Schenectady, and Stanley Ruthberg, Middletown, N. Y., assignors to the United States of America as represented by the Secretary of War
Application March 4, 1946, Serial No. 651,939
3 Claims. (Cl. 250—36)



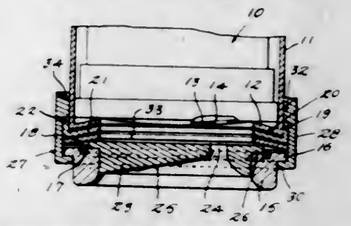
1. A noise generator comprising a thermionic discharge device containing a rarified inert gas having a cylindrical cathode concentrically disposed within a hollow anode, a series circuit comprising a load means for deriving an electrical noise output from said discharge device and further comprising a power supply consisting solely of a source of direct current potential having its positive pole connected to said anode through said load means and having its negative pole connected directly to said cathode, means adjacent said cathode for producing a magnetic field of constant magnitude, said field being transverse to the normal direction of flow of electrons and being of such strength that substantially no direct electrons from said cathode reach said anode.

2,658,150
METHOD AND APPARATUS FOR FOCUSING CHARGED PARTICLES
John G. Backus, Los Angeles, Calif., and Bernard Peters, Rochester, N. Y., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application December 3, 1948, Serial No. 63,274
10 Claims. (Cl. 250—41.9)



1. In an electromagnetic separator device comprising in combination a transmitter and a receiver and having means establishing a magnetic field constraining ions emitted from said transmitter to traverse arcuate paths; electrostatic focusing means including a plurality of parallel spaced electrodes lying in planes parallel to said ion traverses, and electrical supply means applying electrical potentials to said electrodes whereby equipotential refracting surfaces are established normal to the plane of and in the path of said ion traverses whereby said ions are influenced to converge at foci.

2,658,151
LUMINOUS LOCK ATTACHMENT
Bernard Heinz, Scranton, Pa.
Application October 24, 1951, Serial No. 252,857
8 Claims. (Cl. 250—76)

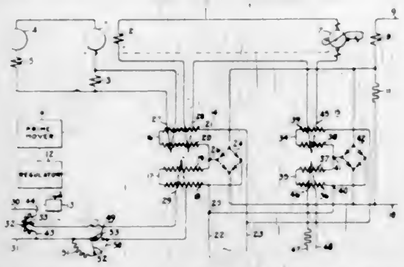


1. A luminous attachment for a cylindrical lock barrel comprising a flanged collar engageable about the outer end of said barrel, cementitious means securing said collar on the outer end of said barrel, a luminous ring outwardly of and concentric to said collar, a key guide within said ring, a flange carried by said guide bearing against the inner end of said ring, means securing said ring to said collar, and a resilient ring interposed between said guide and said collar for resiliently and frictionally holding said guide against rotation.

2,658,152
POWER SYSTEM
Carl A. Brancke, North East, Pa., assignor to General Electric Company, a corporation of New York
Application June 20, 1952, Serial No. 294,677
12 Claims. (Cl. 290—3)

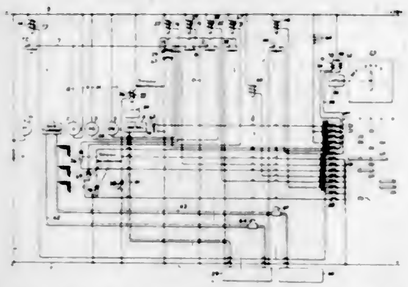
1. A power system comprising a generator adapted to be electrically connected to a load,

a thermal prime mover mechanically connected to drive said generator, a governor connected to regulate the speed of said prime mover by varying the fuel flow thereto, a throttle connected to vary the setting of said governor and having a plurality of positions, means connected to regulate said generator to maintain the output thereof at a predetermined value, supervisory control



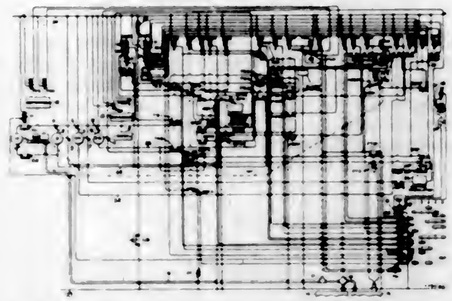
means connected further to regulate said generator selectively to establish said output value, and load control means operable in response to said governor connected further to regulate said generator thereby to vary said generator output, said load control means being ineffective below a predetermined fuel rate established by said governor.

2,658,153
PRIME MOVER STARTING AND SHUTDOWN SYSTEM
Carl A. Brancke, North East, Pa., assignor to General Electric Company, a corporation of New York
Application June 21, 1952, Serial No. 294,808
25 Claims. (Cl. 290—4)



1. A system for starting and shutting down a main thermal prime mover having a main generator mechanically connected thereto comprising an auxiliary thermal prime mover mechanically connected to drive an auxiliary generator, a source of fuel for said main prime mover, means for starting said auxiliary prime mover, first circuit establishing means arranged electrically to connect said auxiliary generator to said main generator for operating the same as a motor to crank said main prime mover, valve means arranged to connect said main prime mover to said source of fuel, speed responsive circuit establishing means arranged to disconnect said auxiliary generator from said main generator responsive to a predetermined speed of said main prime mover, and supervisory control means arranged sequentially to actuate said first circuit establishing and valve means for starting said main prime mover and to deactuate said last-enumerated means in reverse sequence for shutting down said main prime mover.

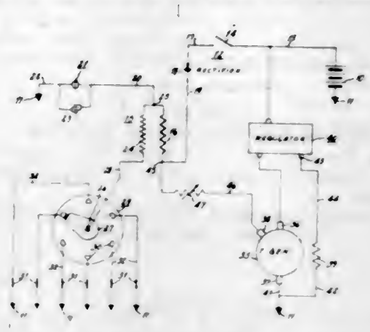
2,658,154
PRIME MOVER STARTING SYSTEM
Carl A. Brancke, North East, and Thurlow J. Warrick, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application July 18, 1952, Serial No. 299,682
26 Claims. (Cl. 290—4)



1. A system for starting a main thermal prime mover having a main generator mechanically connected thereto comprising an auxiliary thermal prime mover having an auxiliary generator mechanically connected thereto, first circuit establishing means arranged when actuated electrically to connect said auxiliary generator to said main generator for operating the same as a motor to crank said main prime mover, first time delay means connected to de-actuate said first circuit establishing means after the same has been actuated for a first predetermined time, first speed-responsive means connected to render ineffective said time delay means responsive to a first predetermined speed of said main prime mover, a source of fuel for said main prime mover, valve means arranged when actuated to connect said source of fuel to said main prime mover, said time delay means being connected to deactuate said valve means and said first circuit establishing means after said valve means has been actuated for said first predetermined time, means responsive to firing of said main prime mover connected to render ineffective said time delay means, second time delay means connected to de-actuate said valve means and said first circuit establishing means after said valve means has been actuated for a second predetermined time, and second speed-responsive means connected to render ineffective said second time delay means responsive to a second predetermined speed of said main prime mover, said second speed-responsive means being connected to deactuate said first circuit establishing means responsive to said second predetermined main prime mover speed.

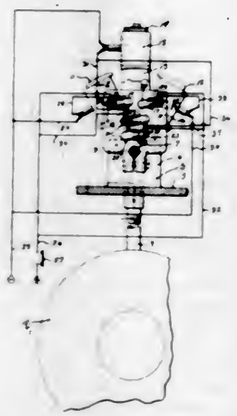
2,658,155
IGNITION SYSTEM
Max G. Bales, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 8, 1952, Serial No. 303,247
4 Claims. (Cl. 307—10)

1. An ignition system for internal combustion engines having an ignition coil, an ignition timer, a battery and a generator; a circuit connecting said battery and generator with said coil and timer including a manually operated switch for controlling said circuit, said generator having main and auxiliary brushes for supplying current to said circuit; a variable resistance in circuit with the auxiliary brush and through which current is supplied to said coil and timer, said resistance under some operating conditions causing the generator to supply current to the ignition circuit at a voltage substantially greater than



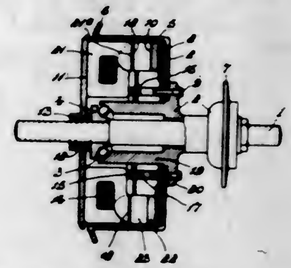
the battery voltage; and means interposed between the battery and said resistance to prevent said higher voltage from leading back to the battery.

2,658,156
OSCILLATING MOTOR FOR HIGHWAY CROSSING SIGNALS
Alfred F. Meuler, Milwaukee, Wis.
Application March 7, 1951, Serial No. 214,236
1 Claim. (Cl. 310—39)



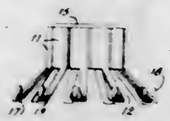
In a highway crossing signal for railroads, a frame, a rock shaft supported by the frame, a stationary magnet on the frame arranged above the rock shaft, a pair of movable magnets carried by the rock shaft arranged in diverging relation and normally disposed on opposite sides of the stationary magnet, and a circuit selector for the magnets including a panel rigidly secured to the rock shaft for movement therewith, a pair of mercury switches secured to the panel electrically connected respectively to the stationary magnet and to one movable magnet, a second pair of mercury switches electrically connected respectively to the stationary magnet and to the other of the movable magnets, the contacts for the first pair of mercury switches being disposed at one end thereof and the contacts for the second pair of switches being located at the opposite end thereof, said mercury switches being all tilted in the same direction on the panel with the contacts of one pair of switches bridged when the panel is in a vertical position.

2,658,157
LOW-POWER HUB DYNAMO
Pieter Hendrik Johannes Brouwer, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application June 21, 1951, Serial No. 232,743
Claims priority, application Netherlands July 4, 1950
8 Claims. (Cl. 310—156)



8. A low-power hub dynamo comprising a magnetic circuit having a shaft, a hub loosely mounted thereon, first and second relatively rotatable means arranged side by side in the axial direction and mounted on said shaft and said hub respectively, one of said means comprising a multipolar permanent magnet producing a magnetic force of attraction between the two means, resilient means for mounting one of said rotatable means with a predetermined, comparatively restricted freedom of motion, and ball-bearing spacer means carried in annular running surfaces mounted on said first and second means for preventing an airgap separating said first and second means from being made shorter than a certain predetermined minimum length, said ball-bearing spacer means permitting the aforesaid relative rotation by rolling friction, said running surfaces having a diameter which is smaller than the internal diameter of the magnet, one of said running surfaces being of magnet steel integral with said magnet.

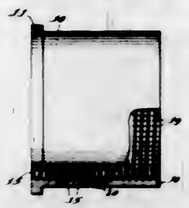
2,658,158
COMMUTATOR
Joseph Bender, Jr., James Eberly, and Richard Tipple, Elyria, Ohio, assignors to The General Industries Company, Elyria, Ohio, a corporation of Ohio
Application August 3, 1950, Serial No. 177,422
3 Claims. (Cl. 310—234)



1. A commutator segment comprising a commutator segment bar having a transversely arcuate outer surface and a lug integrally formed therewith extending from an end thereof, said lug being substantially entirely of flattened, and of J-shaped form, said lug comprising a long supporting arm, a relatively shorter supported arm, and a web integrally joining the outermost ends of the arms, the shorter arm initially extending from said web in a direction which is divergent from the plane of the longer arm, said arms having substantially opposing side edges defining a passage disposed between the arms which is initially of substantially greater width

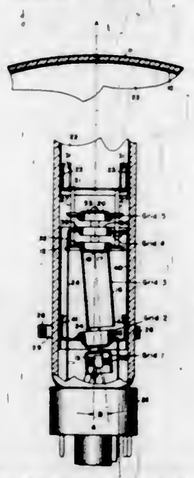
than the thickness of terminal wires to be secured thereto and adapted to loosely receive said terminals and said shorter arm adapted to be subsequently bent into the plane of said longer arm to wedgingly compress any said terminal wires between the said side edges of said arms.

2,658,159
MOLDED COMMUTATOR
Clarence A. Herbst, Park Ridge, Ill., assignor to Resinoid Engineering Corporation, a corporation of Illinois
Application December 22, 1949, Serial No. 134,569
3 Claims. (Cl. 310—235)



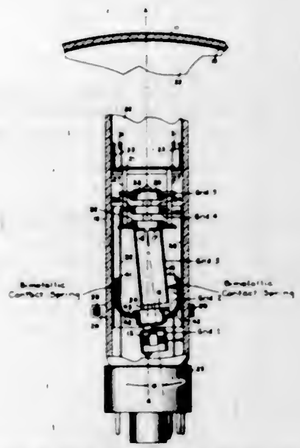
1. A commutator comprising, a generally cylindrical core of insulating material, a plurality of electrical conductive commutator bars positioned about the periphery of said core, a plurality of undercut ribs extending from the inner surface of each bar transversely thereof with dovetailed grooves between each adjacent pair of ribs, said ribs having a plurality of crossgrooves transverse their exposed end portions, and said ribs extending into said core a distance sufficient for said core material to fill said dovetailed grooves and crossgrooves to provide a distributed bond between each bar and the core.

2,658,160
IMAGE-REPRODUCING DEVICE
Russel S. Peterman, Des Plaines, Ill., assignor to The Rauland Corporation, a corporation of Illinois
Application November 23, 1951, Serial No. 257,692
5 Claims. (Cl. 313—82)



1. A cathode-ray tube comprising: an evacuated envelope; an electrode system within said envelope for projecting an electron beam, said electrode system including a cathode, a plurality of tubular electrodes, and a conductive coating on the inner wall of said envelope; and a second conductive coating on the inner wall of said envelope, separate from said first-mentioned coating, substantially shielded from the path of said electron beam, and electrically connected to one of said tubular electrodes, for inhibiting cold emission and spark discharge in said electrode system.

2,658,161
IMAGE-REPRODUCING DEVICE
John F. De Ano, Melrose Park, Ill., assignor to The Rauland Corporation, a corporation of Illinois
Application January 9, 1952, Serial No. 265,627
2 Claims. (Cl. 313—82)

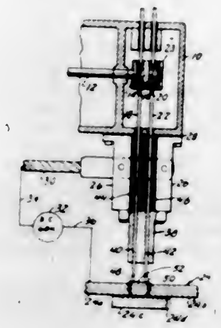


1. A cathode-ray tube comprising: an evacuated envelope; a fluorescent screen supported within said envelope; an electrode system within said envelope including a cathode, a plurality of tubular electrodes, and a conductive coating on the inner wall of said envelope between said tubular electrodes and said fluorescent screen; means for electrically connecting said conductive coating to one of said tubular electrodes; another conductive coating on the inner wall of said envelope, separate from said first mentioned coating and at least partially encompassing said tubular electrodes, for inhibiting cold emission and spark discharge in said electrode system; and at least one bimetallic contact spring fixed to another of said tubular electrodes and adapted to make electrical contact with said other conductive coating under normal ambient temperature conditions, whereby said contact spring is withdrawn from contact with said other conductive coating in response to a predetermined change in said ambient temperature conditions.

2,658,162
WELDING APPARATUS
Edwin L. Tichenor, Clifton, and William F. Cremins, Montclair, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application December 24, 1949, Serial No. 134,908
1 Claim. (Cl. 314—36)

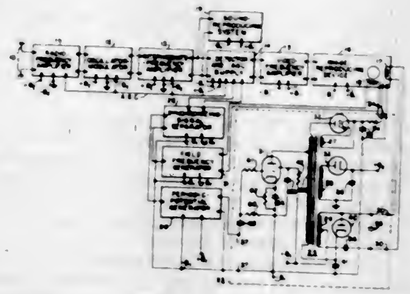
An automatic electric welding setup comprising in combination a welding head having a welding rod feedroll including annular grooves of the same diameter spaced between one-fourth inch and one inch apart, means to drive said feedroll rotationally to feed welding rods engaged with the roll in said grooves in unison, a unitary welding rod guide and nozzle member

of electrically conductive material, means to secure said member to said head in electrically insulated relation thereto and in spaced relation from the head and feedroll, an insulating guide sleeve for and embracing each weld rod disposed between said feedroll and said member and secured in place by said securing means, said member including parallel guide holes alined with said guide sleeves, spaced apart by a distance of one-fourth inch to one inch, weld rods engaging said



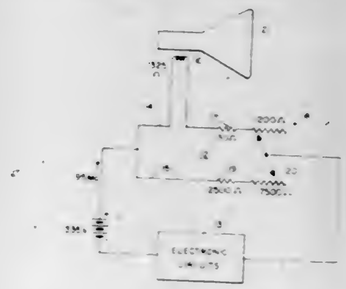
roll at said grooves, passing through said sleeves and passing through said guide holes in said member, said rods have fitting engagement with and contacting the member to enable welding current transfer from the member to said rods, and conductor means firmly connected to said member to carry welding power to said member and to both of said rods simultaneously, as both of said rods are fed from said feedroll through said guides and through said member.

2,658,163
ENERGY-SUPPLY SYSTEM
Rinaldo E. De Cola, Park Ridge, Ill., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application November 23, 1951, Serial No. 257,919
12 Claims. (Cl. 315—27)



12. An energy-supply system for a television receiver comprising: an electron-discharge device having input and output electrodes; means for applying to said input electrodes a periodic potential; and a load circuit for said device coupled to said output electrodes, including a transformer having a primary and a plurality of secondary windings, including a portion having said primary winding, one of said secondary windings, a device of unidirectional conductivity coupled to said one secondary winding and having means for coupling an inductor to said portion to constitute therewith a primarily inductive load for said electron-discharge device for periodically developing current of saw-tooth wave form and a potential of pulse wave form in said primary and secondary windings, and including a potential-supply system having a plurality of circuits one of which includes a portion of said primary winding, a first rectifier device responsive to said potential of pulse wave form in said primary winding for deriving a first unidirectional potential therefrom and another of which includes another one of said secondary windings having a second rectifier device coupled thereto to derive from said potential of pulse wave form developed in said other secondary winding a unidirectional potential of a lower order of magnitude than said first unidirectional potential, said potential of pulse wave form developed in said other secondary winding being the inverse of said potential in said primary winding.

2,658,164
FOCUS CIRCUIT FOR CATHODE-RAY TUBES
Werner J. Grunwald, Maywood, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application November 3, 1950, Serial No. 193,819
10 Claims. (Cl. 315—31)



1. Apparatus of the type described comprising in series connection a focus coil for a cathode ray tube, a source of voltage, electronic circuits associated with said tube and a first variable resistor, and a second variable resistor connected directly in parallel with said coil and said first resistor.

2,658,165
MAGNETRON TUBE WITH CAVITY RESONATOR
John E. Evans, Houston, Tex., Robert C. Fletcher, Cambridge, and Foster F. Rieke, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application March 1, 1946, Serial No. 651,300
3 Claims. (Cl. 315—39)

1. A double-output vane-type cavity magnetron, a coaxial cavity resonator including an inner conductor and an outer conductor, means coupling said coaxial cavity resonator to a first cavity of said magnetron comprising an extension of said inner conductor into said first cavity, a portion of the length of said extension being positioned substantially parallel and very close to a first vane of said magnetron, and the end of said inner conductor being fastened to a second vane of said magnetron at the end near the center of

said magnetron of said second vane, said first vane being positioned adjacent to said second



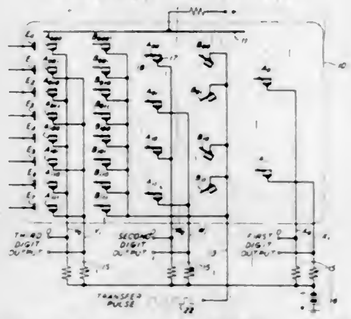
vane, and output means coupled to a second cavity of said magnetron.

2,658,166

MULTICATHODE GLOW DISCHARGE DEVICE

Wallace A. Depp, Mountainside, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 15, 1951, Serial No. 261,837
8 Claims. (Cl. 315—166)



1. A gaseous discharge device comprising an anode, a plurality of cathodes cooperating with said anode and arranged in stages in a branching array, each stage having half the number of cathodes of the preceding stage, means for initiating a discharge between any one cathode of the first stage and said anode in response to a signal corresponding to a decimal number, means connecting alternate cathodes of each stage together, and means for stepping a discharge initiated between said one cathode of said first stage and said anode along a unique path of cathodes in said array to generate in time sequence output signals on said connecting means corresponding to the binary equivalent of the decimal code of the signal that initiated the discharge at the cathode of said first stage.

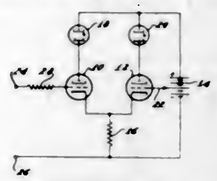
2,658,167

SIGNAL LEVEL INDICATOR

James S. Harris, Old Greenwich, Conn., assignor to Radio Corporation of America, a corporation of Delaware

Application August 28, 1952, Serial No. 306,880
10 Claims. (Cl. 315—201)

1. A signal level indicator circuit comprising a pair of electron discharge tubes each having at least a cathode, a control electrode, and an anode, neon lamps individually connected to each of said anodes, a common impedance connected to each of said cathodes, means to apply a source of uni-



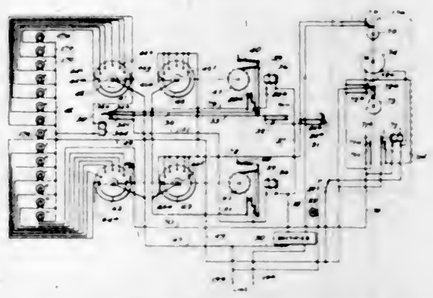
directional voltage across said lamps and said impedance, means to apply a reference voltage to a control electrode of one of said tubes, and means to apply a signal voltage to the control electrode of the other of said tubes.

2,658,168

VOTIVE LIGHT SYSTEM

Leroy A. Matson, Park Ridge, Ill., assignor, by mesne assignments, to Sydney M. Roth, Chicago, Ill.

Application April 29, 1950, Serial No. 159,050
10 Claims. (Cl. 315—319)



1. Votive light actuating apparatus, including: a single actuating switch; means for energizing said votive lights in a desired sequence upon repeated operation of said actuating switch, one light for each said operation; and means for maintaining energized at least several of the previously energized lights upon successive operations of said actuating switch, the lights remaining energized for a period of time independent of the time when lit.

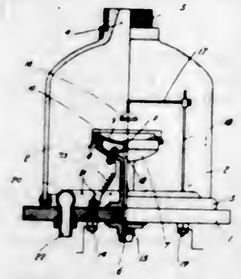
2,658,169

PRODUCTION OF AEROSOLS

Pierre Marie René Barret, Marseille, France, assignor to Centre National de la Recherche Scientifique, Paris, France, a corporation of France

Application March 14, 1949, Serial No. 81,287
Claims priority, application France
March 18, 1948
7 Claims. (Cl. 317—3)

1. A device for producing aerosols by means of electric discharges between an electrically conducting liquid acting as an electrode and another electrode, comprising, a base structure, a cup adapted to contain said conducting liquid, a porous member arranged in said cup and extending out of and above said cup and saturable by said liquid, said second mentioned electrode being disposed adjacent that portion of said porous member which extends above said cup, an enclosure extending from said base structure and enclosing said porous member and said second mentioned electrode for confining the aerosols produced by said discharges and having an outlet at the top thereof, means for fitting said cup onto said base structure, and means for applying a high voltage current to said conducting



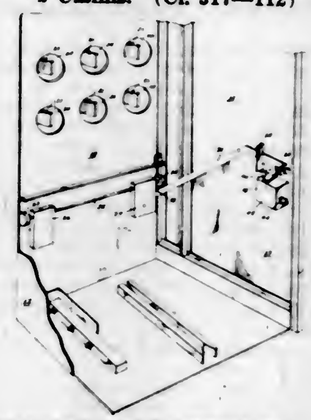
liquid, when in said cup, and to the said second mentioned electrode, in order to generate an electric discharge between said liquid saturating said porous member and said second mentioned electrode.

2,658,170

HV TYPE KEY INTERLOCK

Arthur S. Caswell, Philadelphia, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application September 19, 1950, Serial No. 185,574
2 Claims. (Cl. 317—112)



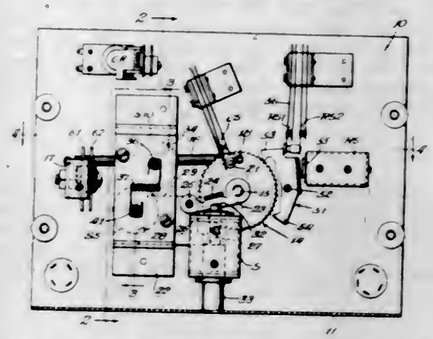
1. In a compartment for switch gear, said compartment having a front opening and a back wall; connectors in said back wall; guide means in said compartment for receiving switch gear introduced therein and blocking means rotatably mounted on said back wall and movable selectively between two limiting positions, the first limiting position being one in which the blocking means extends parallel to the back wall and the second limiting position being one in which the blocking means extends normal to the back wall for a substantial distance into said compartment; said blocking means comprising a rotatable shaft parallel to the said back wall and adjacent thereto, a plate secured to said rotatable shaft substantially at one end of said plate and a linkage for moving said plate and said shaft between the two aforementioned limiting positions, said linkage comprising a pull bar rotatably secured to said plate adjacent said shaft, said pull bar extending normal to said back wall at one side of said compartment and an operating handle on said pull bar.

2,658,171

CREDIT UNIT

Robert A. McCallum, Clarendon Hills, Ill., assignor, by mesne assignments, to AMI Incorporated, a corporation of Delaware

Application May 17, 1950, Serial No. 162,437
9 Claims. (Cl. 317—137)



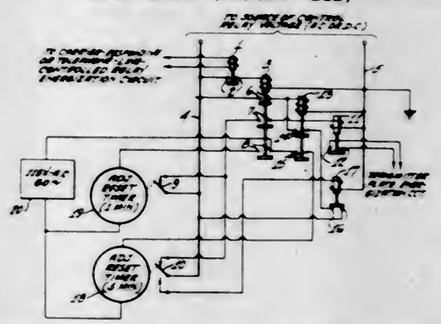
1. In a selector system, the combination with a selector circuit comprising a series of push buttons, each comprising a single pole, double throw switch; said push buttons being in series relationship with each other and each button being in series with one of a plurality of selector magnets in parallel relation with each other; of a credit circuit comprising a mechanically actuated credit switch, a reset magnet and a pair of normally closed relay contacts in series with said switch, reset magnet and the selector magnets and push buttons; together with a control circuit parallel with the selector circuit and comprising an electromagnetic winding for the normally closed relay contacts of the selector circuit, and a pair of contacts responsive to the operation of the reset magnet thereof; together with a bridge connection from the winding of the reset magnet to the relay winding to hold the credit circuit energized only until the selector circuit is broken.

2,658,172

SWITCHING CONTROL SYSTEM

John R. Neubauer, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 20, 1951, Serial No. 247,532
10 Claims. (Cl. 317—141)



5. In a system for controlling an electrical device, a two-condition electrical-signal-responsive controlling means responsive to an electrical signal effective thereon for controlling the device in one or the other of two opposite senses corresponding respectively to each of said two conditions, means responsive to the operation of

said controlling means to one of said two conditions for measuring a predetermined time interval beginning at the instant of initiation of control in said one sense of said device by said controlling means, and switching means controlled by said measuring means for sampling the condition of said controlling means at the end of said time interval and for operating to control said device in said other sense if said controlling means is in one condition when sampled and for operating to reset itself and also said measuring means if said controlling means is in the other condition when sampled.

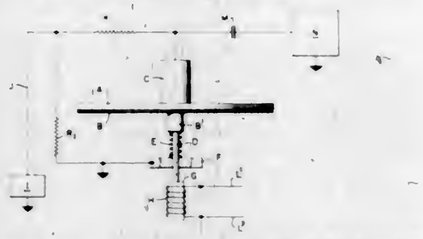
2,658,173

VIBRATING CONDENSER CONVERTER

Harry Reese, Jr., Oak Ridge, Tenn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application November 30, 1949, Serial No. 130,285

4 Claims. (Cl. 317—250)



4. A vibrating condenser converter for use in converting a minute unidirectional current into alternating current, comprising a stationary plate and a plate adjacent and movable toward and away from said stationary plate, and each having a rhodium coating plated on a plate body of a different metal and hence exhibiting a substantially constant work function notwithstanding exposure to the potentially contaminating constituents normally encountered in industrial atmospheres.

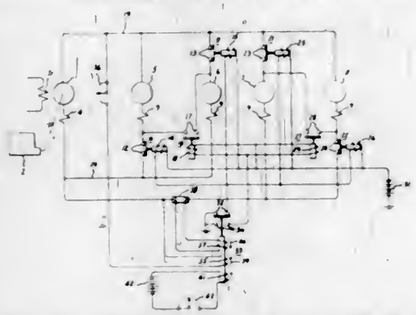
2,658,174

TRACTION MOTOR SYSTEM WITH SERIES-PARALLEL SWITCHING RELAY

Thurlow J. Warrick, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application September 25, 1951, Serial No. 248,134

4 Claims. (Cl. 318—83)



1. In combination, a plurality of motors, a generator connected to energize said motors, switching means arranged in circuit with said motors for changing the connections thereof, and transition control means including a relay biased to a predetermined position having a first operating coil connected for energization responsive to generator output voltage and a second operating coil connected for energization responsive to generator line current and contacts connected to actuate said switching means in response to a predetermined combination of generator voltage and current, said relay having a third operating coil connected for energization from a fixed voltage bias whereby said relay will only pick up on one combination of generator voltage and current within th. limits of the generator characteristic curves.

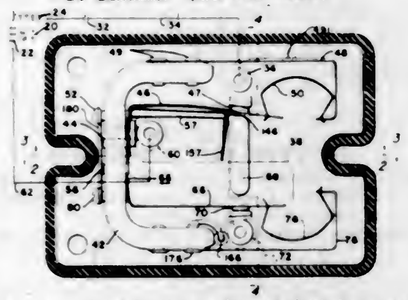
2,658,175

ELECTRICAL APPARATUS

Harry F. Clark, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application August 5, 1952, Serial No. 302,777

10 Claims. (Cl. 318—221)



1. A control including a bimetal strip means, a control means connected to and operated by the movement of a portion of said bimetal strip means, means including a first heating circuit under the control of said control means for heating said bimetal strip means, a resetting control including a bimetal support extending near to and generally parallel to said strip means and having its high expanding side away from said bimetal strip means to cause it to bow toward the strip means when heated, said resetting control also including an electric heater supported by said bimetal support alongside and adjacent to said strip means, a second heating circuit portion connected to said electric heater and said support in parallel circuit relationship with the first heating circuit to normally energize said heater to heat said strip means and for heating said bimetal support abnormally during abnormally high current flow to cause said support to bow toward the strip means, said support being provided with a resetting extension for engaging and moving said strip means under abnormally high current conditions.

2,658,176

NEUTRALIZATION OF RADIO-FREQUENCY POWER SUPPLIES

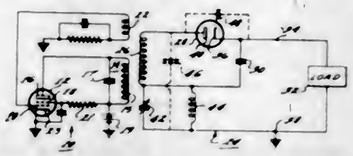
Roy C. Wilcox, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 25, 1950, Serial No. 192,078

5 Claims. (Cl. 321—10)

1. In a rectifier circuit for a power supply system of the type wherein a rectifier having interelectrode capacitance is connected to convert alternating voltage appearing across a transformer winding into unidirectional voltage, the combination with said rectifier and said winding of a pair of capacitors having a common terminal connected to one end of said winding, and

means effectively providing distributed capacity between the other end of said winding and the other terminal of one of said capacitors, the other terminal of the other of said capacitors being connected to said rectifier, said capacitors, said interelectrode capacitance of said rectifier, and said means being connected in said circuit



and being a four-arm capacity bridge having two conjugate pairs of arms in shunt with said winding, one of said conjugate pairs comprising said one capacitor and said means, and the other of said conjugate pairs comprising the other of said capacitors and the interelectrode capacitance of said rectifier.

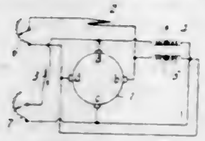
2,658,177

SPEED RESPONSIVE ELECTRICAL DEVICE

Joseph Maximus Pestarini, Staten Island, N. Y.

Application November 27, 1946, Serial No. 712,629

2 Claims. (Cl. 322—90)



1. A system comprising a variable speed direct current machine and a pair of external circuits energized by said machine, said machine comprising an armature provided with a pair of sets of brushes and a pair of stator windings respectively shunt connected to said sets of brushes, each of said external circuits comprising a winding, said last mentioned windings being respectively connected in shunt relation to said sets of brushes, said last mentioned windings being arranged to have a common magnetic axis, said machine being operative to produce a peak of current in one of said last mentioned windings at a rotational speed at which the electromotive force between the set of brushes associated with said one winding divided by the current traversing the stator winding associated with said last mentioned set of brushes equals the resistance of said last mentioned stator winding and being further operative to produce a peak of current in the other of said last mentioned windings at a rotational speed at which the electromotive force between the set of brushes associated with the other winding divided by the current traversing the stator winding associated with said last mentioned set of brushes equals the resistance of said last mentioned stator winding.

2,658,178

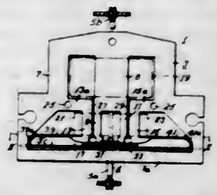
ELECTRICAL WATTHOUR METER

Richard M. Leippe, Cedar Grove, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 6, 1948, Serial No. 13,382

17 Claims. (Cl. 324—117)

1. In an electrical device, a magnetic structure having an airgap, an armature disposed for rotation in the airgap, voltage and current windings effective when energized respectively in accordance with the voltage and current of an electrical circuit for directing voltage and current magnetic fluxes into the airgap to establish a shifting magnetic field therein, said magnetic structure including first shunt means for shunt-



ing a substantial part of the voltage magnetic flux away from the airgap, and second shunt means in parallel with the first shunt means, said first and second shunt means being proportioned to saturate over different portions of the range of energization of the voltage winding.

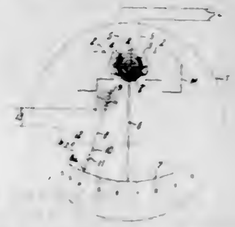
2,658,179

ELECTRICAL MEASURING INSTRUMENT

Edward M. Eadie, Jr., Westfield, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application June 1, 1949, Serial No. 96,537

1 Claim. (Cl. 324—132)



An electrical measuring instrument comprising a single graduated scale, a moving system biased to a position of rest and which includes a pivotally mounted pointer arm deflectable over said scale from said rest position in accordance with the amplitude of the electrical quantity to be measured, a second arm pivotally mounted on the same side of the instrument scale as said pointer arm, spring means biasing said second arm to a position of rest upscale from the end graduation on said scale, said second arm being in the path of deflection of said pointer arm for engagement with and displacement by said pointer arm upon reaching the rest position of said second arm thereby to thereafter modify the normal angular deflection characteristic of said pointer arm per unit change in the amplitude of the measured quantity for further pointer and scale indicated changes in said quantity in the direction of said end scale graduation.

2,658,180

VACUUM TUBE VOLTMETER

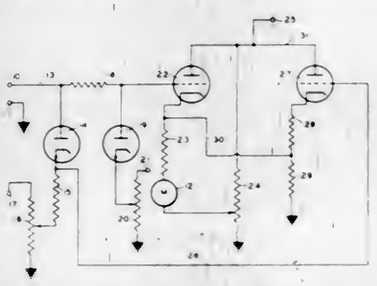
Deslonde R. de Boisblanc, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application April 10, 1950, Serial No. 154,928

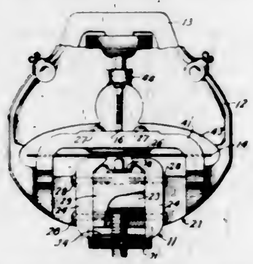
4 Claims. (Cl. 324—123)

1. In a voltmeter, in combination, a pair of electron tubes each having an anode, a cathode and a control grid, means for supplying operating potentials to the electrodes of said tubes, a pair of series-connected fixed resistors in the

cathode circuit of the first tube, a first potentiometer having its fixed terminals connected across a source of operating potential, a fixed resistor and a meter connected in series between the cathode of the second tube and the contactor of said potentiometer, a lead connecting the cathode of said second tube to the junction between said series-connected fixed resistors, a source of voltage to be measured, a fixed resistor connecting said source of voltage to the control grid of said second tube, a second potentiometer having a voltage impressed across its fixed terminals, a first diode having its anode connected to the control grid of said second tube and having its cathode connected to the contactor of said second potentiometer, a third potentiometer having its fixed terminals connected across a voltage source, a second diode having its anode connected to said source of input voltage and having its cathode connected to the control grid of said first tube, and a fixed resistor connecting the cathode of said second diode to the contactor of said third potentiometer.

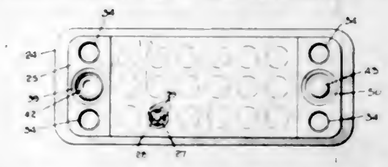


2,658,181
DAMPING UNIT FOR METER DISKS
Henry B. Holmes, Lafayette, and Richard A. Road, West Lafayette, Ind., assignors to Duncan Electric Manufacturing Company, Lafayette, Ind., a corporation of Illinois
Application June 9, 1948, Serial No. 31,944
6 Claims. (Cl. 324—152)



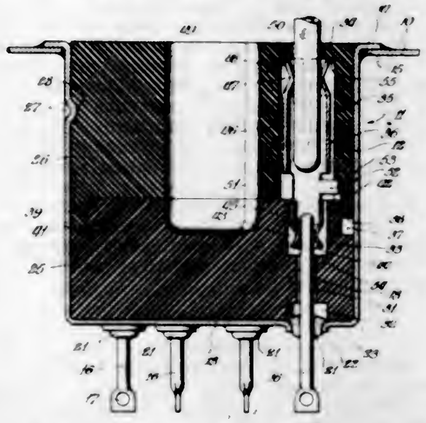
1. A damping unit for watthour meters including non-permanent magnetic members forming at least one gap for reception of a meter disk, a permanent magnet engaging at least some of said non-permanent magnetic members at points substantially spaced from said gap and forming a magnetic circuit with said magnetic members to force magnetic flux through said gap, and at least one additional magnetic means extending variably between said magnetic members in a magnetic path independent of said gap for providing calibrating adjustment and temperature compensation, said additional magnetic means being spaced substantially from the permanent magnet.

2,658,182
MULTIPLE ELECTRIC CONNECTOR
Anton Jackson, Queens Village, and Boris A. Jackson, Long Island City, N. Y.
Application May 11, 1950, Serial No. 161,328
3 Claims. (Cl. 339—45)



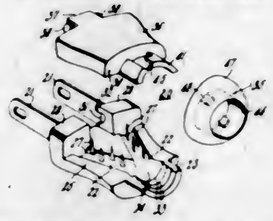
1. A multiple connector of the class described, comprising two body parts of insulating material, one part having a plurality of tubular contacts spaced thereon, the other part having a plurality of contact pins correspondingly spaced thereon, said pins having free lateral movement to accommodate misalinement of the tubular contacts therewith, end portions of said parts beyond and spaced from said contacts having alinement pin and socket elements, the pin element of one part engaging the socket element of the opposed part in coupling and alining said parts one with the other, one only of the socket elements and one only of the pin elements having tensional means providing, in the coupling of said parts, a spring loading, which aids in detachment of said parts, said pin contacts being arranged in socket portions of the second part, a plurality of spring contacts encircling and spaced from said pin contacts at the base of said sockets, said tubular contacts having split end portions forming a series of spring members thereon, and said spring members terminating in inwardly and outwardly bevelled surfaces.

2,658,183
HERMETICALLY SEALED SOCKET WITH FREELY FLOATING CONTACTS
Curt W. Klostermann, Chicago, and Charles J. Adams, Park Ridge, Ill., assignors to American Phenolic Corporation, Chicago, Ill., a corporation of Illinois
Application March 13, 1950, Serial No. 149,292
2 Claims. (Cl. 339—64)



1. A hermetically sealed socket comprising, in combination, an airtight sealing member consisting of a relatively thin metal cup having a bottom wall, side walls, and a marginal mounting flange; at least one contact aperture in said bottom wall, with a conductor comprising a metallic pin extending through said aperture and projecting upwardly into said cup; an insulating seal surrounding said pin bonded to the surface of the pin and sealed to the bottom wall of the metal cup, so that the insulating seal supports said pin; together with a socket body comprising a bottom section and a top section, said bottom section having an aperture in alignment with said contact pin and of greater diameter than said pin so that the pin extends through said aperture of the body but is spaced therefrom at all points, at least one pin aperture in the top section of the socket body in substantial alignment with said aperture in the bottom section thereof, together with an enlarged contact cavity between said apertures, said cavity having oppositely disposed shoulders to retain a metal contact therein; a free floating metal contact member confined within said cavity and comprising an upper spring sleeve disposed at a contact pin aperture of the top section and a lower spring sleeve in frictional engagement with the upwardly projecting portion of said metallic conductor pin.

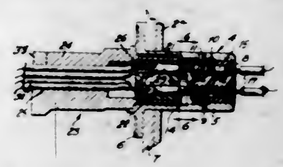
2,658,184
ELECTRICAL CONNECTOR
Arthur Greenbaum, Bronx, N. Y., assignor to Academy Electrical Products Corp., New York, N. Y., a corporation of New York
Application October 19, 1946, Serial No. 704,339
8 Claims. (Cl. 339—99)



8. An electrical quick-disconnect terminal comprising, in combination, a first member having an elongated recess adapted to receive and closely fit the end of an insulation-covered conductor therein, a second member having a pair of barbs; hinge means, which has its hinge axis transverse to the length of said elongated recess, and which has a disengageable-trunnion and bearing-socket means integrally formed with said member, pivotally connecting them together, to swing said barbs into the recess of said first member, and thus into insulation-piercing and electrical connection with said conductor in said recess; said second member having a pair of spaced-apart electrical-disconnect contact portions integral, respectively, with said barbs; shoulder means formed on said first member, said shoulder means being forced between the spaced-apart contact portions, to expand and latch said shoulder means against said contact portions, for permanently holding the disengageable-trunnion and bearing-socket means pivotally together on said hinge axis; and locking means engageable with said two members to lock them in said insulation-piercing and electrical-connecting position.

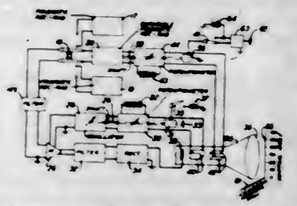
2,658,185
ELECTRICAL CONNECTOR
George W. Hatcher, Sr., Richmond, Va.
Application May 22, 1950, Serial No. 163,370
1 Claim. (Cl. 339—188)

In a separable connector for electric cables, a metallic tubular receptacle, a first dielectric plug fixed within and closing a first end of said receptacle, there being a plurality of axially-extending, equally circumferentially spaced holes through said plug, a metallic contact slidably mounted in each hole, means yieldingly urging each contact axially toward the second end of said receptacle, there being a pair of diametrically-opposite L-shaped grooves in the internal wall of the second end of said receptacle, each said groove comprising an axially-extending portion and a communicating circumferentially-extending portion, said circumferentially-extending portions lying in respective transverse axially-spaced planes along said axis, a metallic insert comprising a tubular end portion insertable into the second end of said receptacle, a pair of diametrically opposite projections fixed externally on said tubular end and axially spaced to correspond with the axial spacing of the circumferentially-extending portions of said grooves, whereby said



tubular end portion can be properly inserted into the second end of said receptacle and turned to cause each said projection to ride along to the end of its said circumferentially-extending grooves, for one rotational relation of said portion and receptacle only, to determine a final operative position, a second dielectric plug closing and fixed in the tubular end portion of said insert, there being a plurality of axially-extending circumferentially-spaced holes in said second plug each axially aligned with a respective hole in said first plug when said plugs are in said operative relation, a plurality of metallic rods each fixed in a respective one of the holes in said second plug, the ends of said end portion, second plug and rods being substantially flush, whereby each said metallic contact is urged against its respective rod, when said portion and receptacle are in said final operative position, and means adapting each contact and rod for securement thereto of a respective one of a plurality of electrical conductors.

2,658,186
PRISMATIC DIRECTIONAL AND OBJECT LOCATING SYSTEM
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 12, 1942, Serial No. 434,396
14 Claims. (Cl. 340—6)



1. In a compressional wave system for the detection and location of noise emitting sources within a predetermined area, a compressional-wave prismatic receiving device adapted to directively receive from said area any frequency of a substantial band of frequencies within the fre-

quency spectrum of the noise sources to be detected, each frequency within the said band being efficiently received by said receiving device only if it approaches said receiving device from a particular angle, frequency analyzing means for determining the frequencies received and means for indicating which frequencies within the said band are being received whereby the number and angular direction of noise sources within said area can readily be determined.

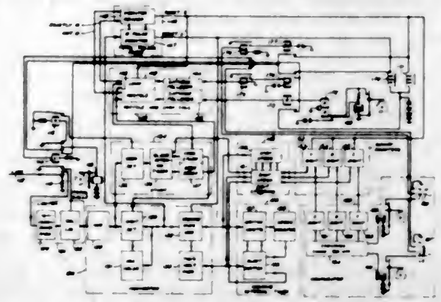
2,658,187
TRAFFIC CONTROL INDICATOR OF THE CLOCK TYPE
Simon Haskin, North Carlton, Victoria, Australia
Application August 28, 1951, Serial No. 244,040
10 Claims. (Cl. 340—43)



1. In a traffic control indicator of the clock type, two discs co-acting to form a dial, an indicator arm adapted to rotate in front of the dial, and electric light globe carried on said arm, a cylindrical transparent screen around said globe formed with different coloured sections, and interengaging means mounted on the arm and on one of the discs adapted to rotate the screen and produce different coloured lighting effects as the arm rotates in front of the dial, each disc being slotted along portion of the circumference of a circle of smaller diameter than that of the disc and concentric with the disc, the arcuate slot in each disc being connected with a radial slot extending from one end of the arcuate slot outwardly to the periphery of the disc, the discs being arranged co-axially and reversed relatively to each other, the free end of the annular portion of the rear disc defined by the arcuate slot being disposed on the front side of the front disc and the free end of the annular portion of the front disc defined by the arcuate slot being disposed on the rear side of the rear disc.

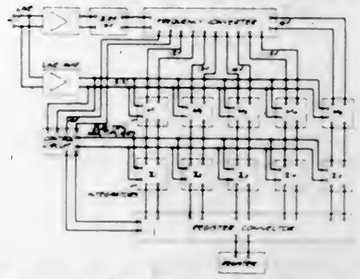
2,658,188
PULSE POSITION DIALING SYSTEM WITH DIRECT TIME MEASURING APPARATUS
William A. Malthaner, Summit, Neal D. Newby, Leonia, and Henry E. Vaughan, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 29, 1948, Serial No. 35,924
25 Claims. (Cl. 340—168)

1. A signal receiver for responding to signals variably spaced in time comprising apparatus responsive to received signals, pulse generating equipment, means responsive to a received signal for initiating operation of said pulse generating equipment, other apparatus responsive to the next succeeding similar signal for stopping the operation of said pulse generating equipment, means for counting the number of pulses generated by said pulse generating equipment between said signals, other apparatus for counting the total number of signals and apparatus responsive to more than a predetermined number



of said signals for preventing the utilization of the number of counted pulses.

2,658,189
SIGNALING SYSTEM BASED ON ORTHOGONAL FUNCTIONS
Clarence A. Lovell, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 9, 1948, Serial No. 1,471
23 Claims. (Cl. 340—171)

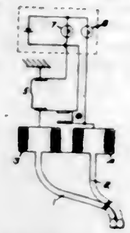


3. An electrical signaling circuit comprising a transmitter including a generator for generating a plurality of damped sine waves of different frequencies, a receiver comprising a plurality of dissipative series resonant circuits each having different impulsive admittances corresponding individually to said waves, a channel interconnecting said transmitter and receiver for impressing said waves on said receiver, and means including a time controlled detector in said receiver for testing the magnitude of the respective voltages across corresponding terminals of said resonant circuits at a particular instant so to provide discrimination between said damped waves, said instant at the end of a predetermined interval after the beginning of the cycles of said waves, said interval depending upon the frequencies of said waves.

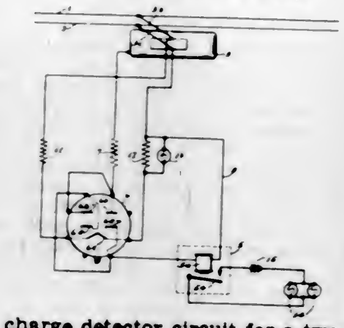
2,658,190
LIQUID-VAPOR PHASE DIFFERENTIAL FIRE AND OVERHEAT DETECTOR AND CONTROL AND SYSTEM
Edward J. Poitras, Holliston, Mass.
Application June 14, 1952, Serial No. 293,691
18 Claims. (Cl. 340—229)

1. For overheat and fire detection and temperature control, a plurality of pressure-tight chambers of variable volume in closed communication respectively with closely parallel enclosed channels defining a continuous temperature sensing element, filling quantities of liquids in the channels and chambers differentiated as to boiling

point, and a circuit and contact means operatively related to the chambers to effect an operation only under differential chamber distention attendant on heating of some portion of the sensing element above the boiling point of a lower-boiling liquid.



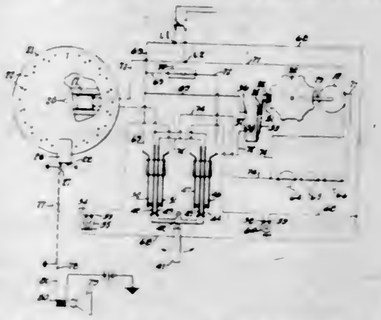
2,658,191
ELECTRIC SIGNAL FOR TRACKLESS TROLLEY COACHES
Samuel S. Stolp, Louisville, Ky., assignor to Cheatham Electric Switching Device Co., Incorporated, Louisville, Ky., a corporation of Kentucky
Application July 5, 1951, Serial No. 235,155
2 Claims. (Cl. 340—248)



1. A charge detector circuit for a two collector coach on a trackless trolley system in which one trolley wire is grounded, said circuit comprising a unilateral conductive device comprising an electron tube having an anode, a cathode, and a heater for the cathode, a high-resistance connection for energizing said heater from the two collectors of said coach, a connection from said anode to the frame of said coach, a resistance element inserted in the connection between the anode and the frame of the coach and having a resistance value of the order of 30,000 ohms, a connection from said cathode to the collector which normally engages the grounded trolley wire, a voltage-sensitive electromagnetic relay having an operating winding included in the last mentioned connection, and a signal device controlled by said relay.

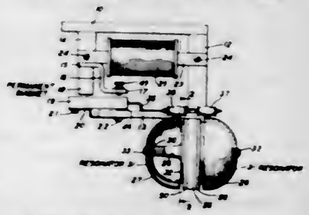
2,658,192
AIR RAID ALARM
Walter O. Spoon and Jack Dressel, Jr., Goldendale, Wash.
Application April 18, 1951, Serial No. 221,691
2 Claims. (Cl. 340—345)

1. An air raid signal producing mechanism adapted to be controlled by a double throw switch to give an audible steady alarm responsive to one throw of said double throw switch and an interrupted audible alarm responsive to the other throw of said double throw switch, said mechanism comprising in combination a source of electric power, a disk of non-magnetic material, a first electric motor adapted to rotate said disk, a plurality of magnetic inserts in said disk, means forming a magnetic circuit, said magnetic circuit being adapted to include said insert once at each revolution of said disk, an electromagnetic loud speaker, electric circuit means adapted to couple said magnetic circuit with said loud speaker, means for energizing said magnetic circuit and said loud speaker, an electric switch, a rotatable



cam, a second electric motor adapted to rotate said cam, said cam being adapted to close and open said switch as said cam is rotated, a double throw switch, and circuit means adapting said double throw switch in one of its throw positions to energize said first motor from said source of power, and in the other of its throw positions to energize said first motor from said source of power through said electric switch and to energize said second motor from said power source.

2,658,193
CLAPPER AND GONG ASSEMBLY FOR TELEPHONE RINGERS
Reginald T. Jenkins, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 13, 1950, Serial No. 184,581
5 Claims. (Cl. 340—402)

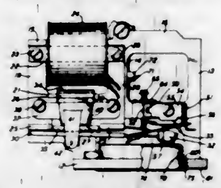


1. In a telephone ringer, a pair of gongs mounted in opposed rim-to-rim alignment, a clapper rod, a pair of clappers mounted in tandem on said clapper rod, and means for mounting both said gongs on the same side of said clapper rod with each thereof adjacent to a different one of said clappers.

2,658,194
AUDIBLE SIGNAL FOR FIELD TELEPHONE SETS
Walter Kalin, Morristown, and James R. Power, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 14, 1952, Serial No. 287,768
9 Claims. (Cl. 340—402)

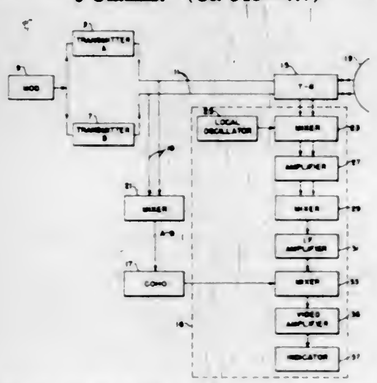
1. In an electromagnet, a coil, a pole-piece, an armature pivotally mounted with respect to said

pole-piece so that one end thereof approaches said pole-piece upon energization of said coil, and means for biasing said armature comprising a spring secured to one end of said armature and



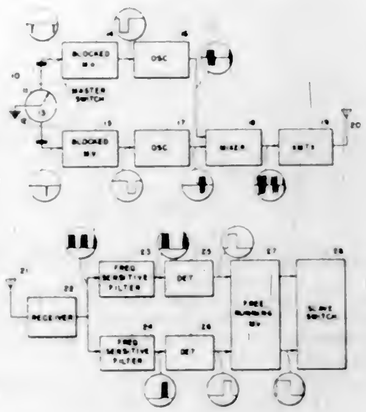
a stop for the free end of said spring having an arcuate bearing surface over which said spring rides as said armature approaches said pole-piece.

2,658,195
MOVING TARGET INDICATING RADAR SYSTEM
Robert A. McConnell, Cambridge, Mass., assignor, by mesne assignments, to the Government of the United States of America as represented by the Secretary of War
Application October 19, 1945, Serial No. 623,395
6 Claims. (Cl. 343—7.7)



4. In a pulse-echo radio object-locating system, means for simultaneously generating and radiating at different carrier frequencies short-duration high carrier frequency pulses of radiant energy, means for receiving object-returned echo pulses, means for deriving beat frequency pulse signals from said echo pulses, means synchronized by said generated pulses for obtaining reference oscillations, and means for combining said reference oscillations and said beat frequency pulse signals to obtain video pulses.

2,658,196
SYNCHRONIZING SYSTEM
Thomas Robert Burnight, Washington, D. C., and Robert A. Emmett, Jr., United States Navy
Application November 19, 1945, Serial No. 629,687
4 Claims. (Cl. 343—225)
(Granted under Title 35, U. S. Code (1952), sec. 266)

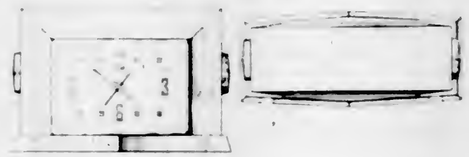


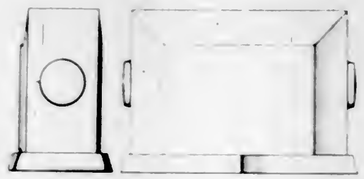
1. In a switch synchronizing system, the combination of a two position master switching means which is continuously operated between said two positions at a fixed switching rate, transmitter means, transmitter modulator means connected between said switch and said transmitter for alternately modulating said transmitter with either of two frequencies in response to the position of said switching means, receiving means responsive to said transmitter, a pair of frequency selective means coupled to said receiving means for separating the received signals according to said modulation frequencies, a free running multivibrator having a pair of trigger terminals and a pair of output terminals, said trigger terminals being connected to opposite sides of said multivibrator, detector means connecting each of said trigger terminals to a different one of said frequency selective means, said detector producing pulses synchronized with said alternate modulations, the alternation of said multivibrator being controlled by the leading edges of said detector pulses and producing synchronously therewith a square wave across said output terminals, and a slave switching means connected to said output terminals to be operated in response to said square valve.

DESIGNS

NOVEMBER 3, 1953

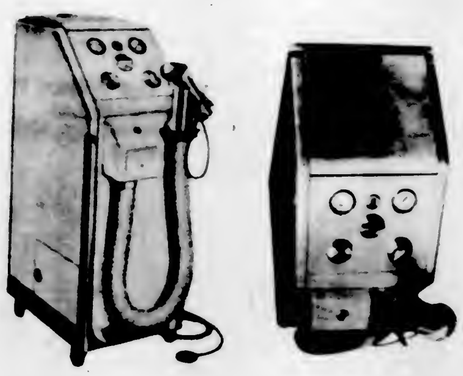
170,738
COMBINATION RADIO, CLOCK, AND PEN SET
Samuel E. Adler, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application May 1, 1953, Serial No. 24,784
Term of patent 14 years
(Cl. D56—4)





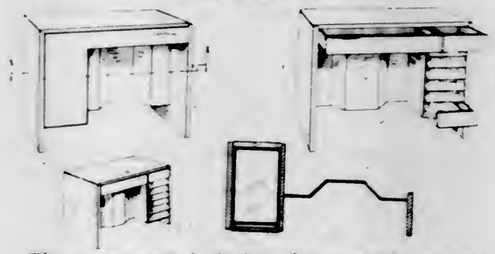
The ornamental design for a combination radio, clock and pen set, as shown and described.

170,739
DENTAL ABRADING UNIT
Robert Corson Angell, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania
Application January 26, 1951, Serial No. 13,992
Term of patent 14 years
(Cl. D24—1)



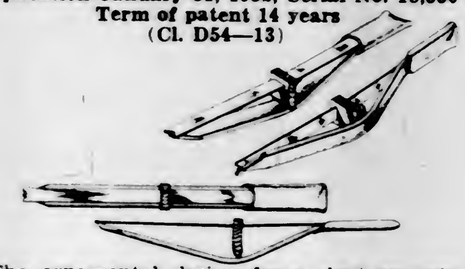
The ornamental design for a dental abrading unit as shown and described.

170,740
DESK
John T. Armbruster, Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 15, 1952, Serial No. 22,313
Term of patent 14 years
(Cl. D33—7)



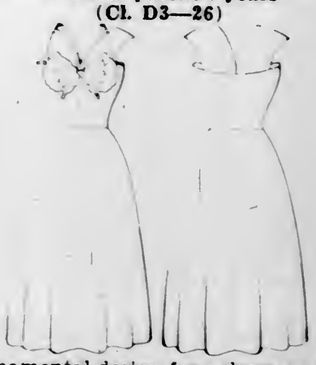
The ornamental design for a desk, substantially as shown.

170,741
DENT-REMOVING TOOL
Laurel M. Back, San Lorenzo, Calif.
Application January 31, 1952, Serial No. 18,330
Term of patent 14 years
(Cl. D54—13)



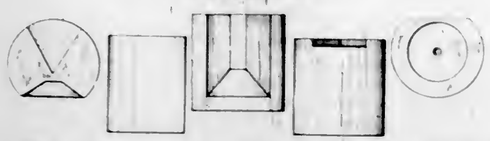
The ornamental design for a dent-removing tool, substantially as shown.

170,742
DRESS
Edward T. Bekeschus, Cincinnati, Ohio
Application August 10, 1953, Serial No. 26,360
Term of patent 7 years
(Cl. D3—26)



The ornamental design for a dress, as shown.

170,743
HEAD OF AN AEROSOL VALVE
Ralph K. Boyer, Cleveland, and Henry W. Krohn, Jr., North Olmsted, Ohio, assignors to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application May 8, 1953, Serial No. 24,917
Term of patent 14 years
(Cl. D62—2)



The ornamental design for a head of an aerosol valve, substantially as shown.

170,744
DIAGNOSTIC INSTRUMENT HEAD
Melvin C. Burrett, Whittier, Calif., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application July 24, 1953, Serial No. 26,125
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a diagnostic instrument head, substantially as shown and described.

170,745
SPECTACLE FRAME OR THE LIKE
Walter C. Carmichael, Winthrop, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application June 10, 1953, Serial No. 25,431
Term of patent 14 years
(Cl. D57—1)



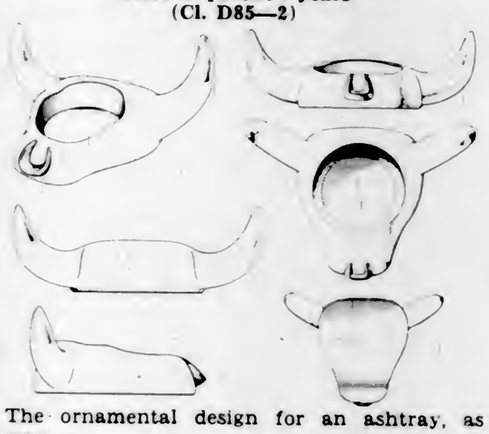
The ornamental design for a spectacle frame or the like, substantially as shown and described.

170,746
SPECTACLE FRAME OR THE LIKE
Walter C. Carmichael, Lexington, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application June 16, 1953, Serial No. 25,516
Term of patent 14 years
(Cl. D57—1)



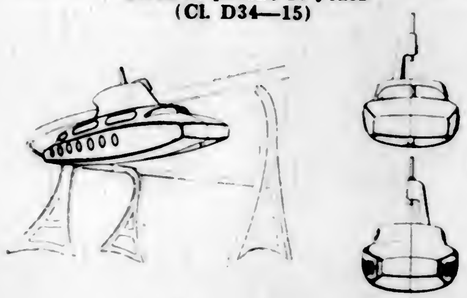
The ornamental design for a spectacle frame or the like, substantially as shown and described.

170,747
ASH TRAY
Joseph L. Chandler, Chicago, Ill.
Application April 13, 1953, Serial No. 24,459
Term of patent 7 years
(Cl. D85—2)

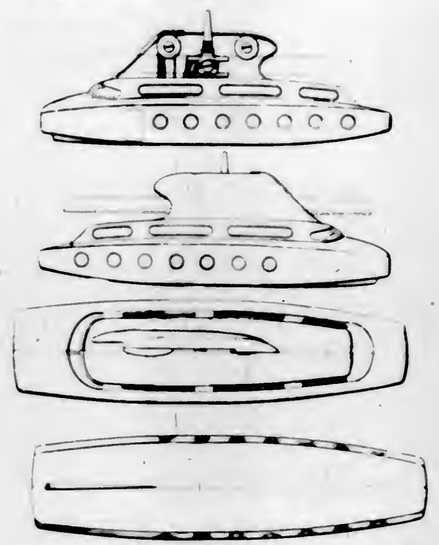


The ornamental design for an ashtray, as shown.

170,748
MONORAIL TOY
Lester Cohen, Spring Valley, and Willard H. Reineking, San Diego, Calif.
Application January 12, 1953, Serial No. 23,104
Term of patent 14 years
(Cl. D34—15)

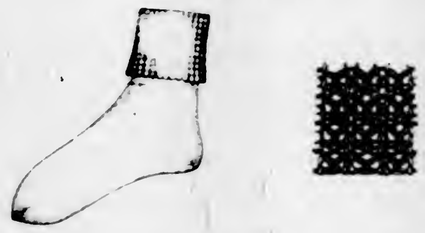


170,748—Continued



The ornamental design for a monorail toy, as shown and described.

170,749
BOBBY SOCK
Clifton T. Collins, Winston-Salem, N. C., assignor to Rosebud Morse Garriott
Application September 8, 1952, Serial No. 21,381
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a bobby sock, substantially as shown.

170,750
COMPACT
Christy M. Del Mas, New York, N. Y.
Application July 22, 1953, Serial No. 26,091
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a compact, as shown and described.

170,751
AIRPLANE
Melvin S. Emery, Oakland, Calif.
Application November 1, 1952, Serial No. 22,103
Term of patent 3½ years
(Cl. D71—1)



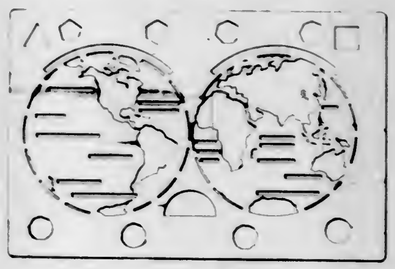
The ornamental design for an airplane, substantially as shown and described.

170,752
PORCH COLUMN
Winford L. Enghauser, Cincinnati, Ohio
Application April 15, 1953, Serial No. 24,525
Term of patent 14 years
(Cl. D54—2)



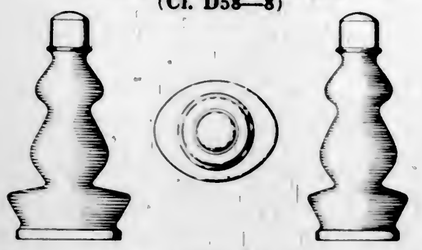
The ornamental design for a porch column, substantially as shown.

170,753
EDUCATIONAL TOY
Alfred F. Fukal, Houston, Tex., assignor to Gulf Coast Manufacturing Co., Inc., Houston, Tex., a corporation of Texas
Application May 5, 1953, Serial No. 24,855
Term of patent 14 years
(Cl. D25—1)



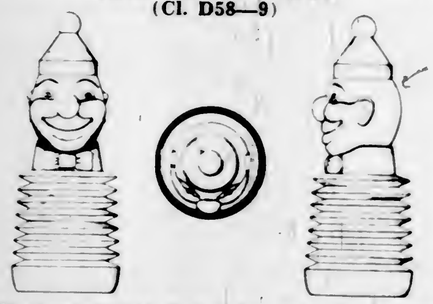
The ornamental design for an educational toy, as shown.

170,754
BOTTLE
Leopold J. Hexel, Detroit, Mich.
Application May 15, 1953, Serial No. 25,027
Term of patent 14 years
(Cl. D58—8)



The ornamental design for a bottle, substantially as shown.

170,755
BOTTLE
David G. Hills, Hartford, Conn., assignor to Plax Corporation, West Hartford, Conn., a corporation of Delaware
Application August 19, 1953, Serial No. 26,510
Term of patent 14 years
(Cl. D58—9)



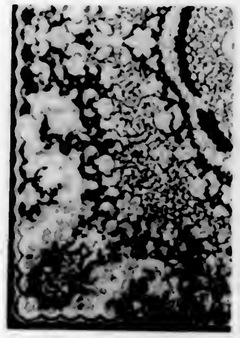
The ornamental design for a bottle, substantially as shown.

170,756
LADY'S STOCKING
Frank Hoffecker, Charlotte, N. C., assignor to Chadbourn Hosiery Mills, Inc., Charlotte, N. C., a corporation of North Carolina
Application October 3, 1952, Serial No. 21,684
Term of patent 14 years
(Cl. D47—7)



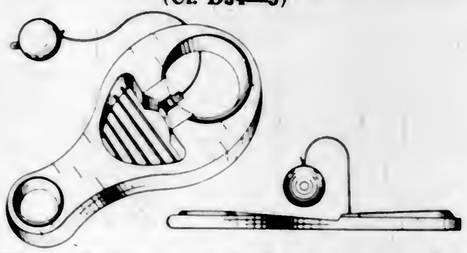
The ornamental design for a lady's stocking, as shown.

170,757
TABLECLOTH
Howard D. Hooven, deceased, late of Doylestown, Pa., by Florence S. Hooven, executrix, Doylestown, Pa., assignor to Quaker Lace Company, Philadelphia, Pa.
Application June 17, 1953, Serial No. 25,545
Term of patent 7 years
(Cl. D92—26)



The ornamental design for a tablecloth, substantially as shown and described.

170,758
TETHERED BALL GAME APPARATUS
Alfred Katherton, also known as Alfred C. Kather, San Francisco, Calif.
Application September 15, 1952, Serial No. 21,453
Term of patent 7 years
(Cl. D34—5)



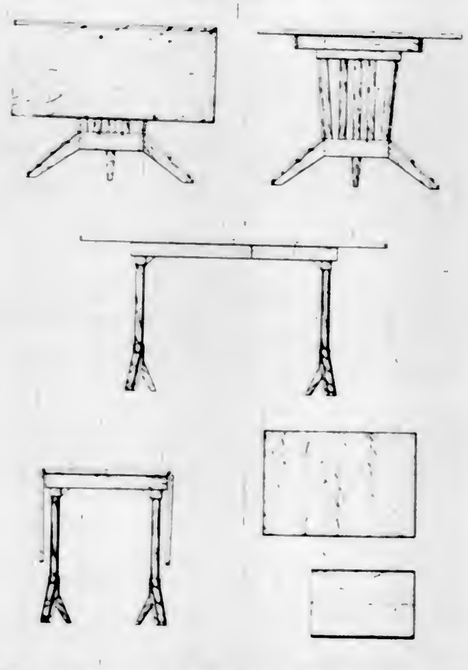
The ornamental design for a tethered ball game apparatus, as shown.

170,759
TOY SHOPPING CART OR SIMILAR ARTICLE
Herman Kesler, Jenkintown, Pa.
Application May 4, 1953, Serial No. 24,826
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy shopping cart or similar article, substantially as shown.

170,760
DROP-LEAF DINING TABLE
Rennold J. Luger, Minneapolis, Minn., assignor to Luger Furniture Company, Minneapolis, Minn., a corporation of Delaware
Application May 27, 1953, Serial No. 25,206
Term of patent 14 years
(Cl. D33—14)



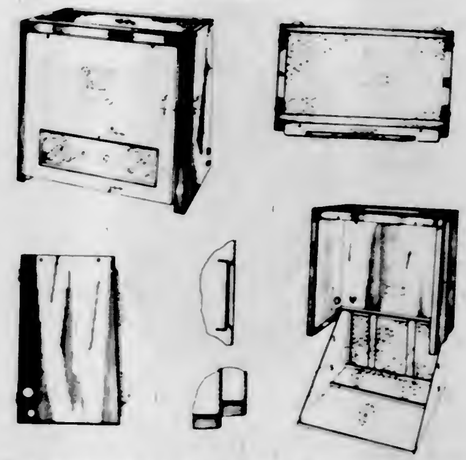
The ornamental design for a drop-leaf dining table, substantially as shown.

170,761
AUTOMOBILE STONE SHIELD
Melvin C. Mawhinney, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 12, 1953, Serial No. 24,973
Term of patent 7 years
(Cl. D14—6)



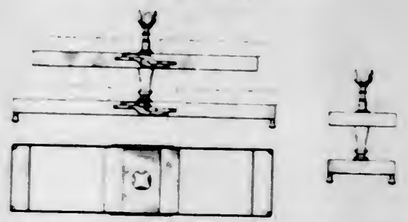
The ornamental design for an automobile stone shield, substantially as shown.

170,762
BATTERY CHARGER CASING
Lewis A. Medlar, Oreland, and Clyde Shuler, Media, Pa., assignors to Fox Products Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 23, 1953, Serial No. 24,635
Term of patent 14 years
(Cl. D26—5)



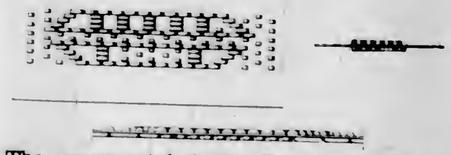
The ornamental design for a battery charger casing, substantially as shown and described.

170,763
LAZY SUSAN
Daniel Meepos, Los Angeles, Calif.
Application April 13, 1953, Serial No. 24,467
Term of patent 14 years
(Cl. D44—10)



The ornamental design for a Lazy Susan, substantially as shown and described.

170,764
WAISTBAND
John Hampson Morgan, Old Southgate, London, England, assignor to Dunlop Rubber Company Limited, Birmingham, England, a British corporation
Application November 25, 1952, Serial No. 22,449
Term of patent 14 years
(Cl. D3—32)



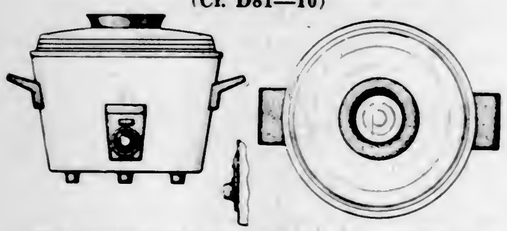
The ornamental design for a waist band, as shown and described.

170,765
TIRE
James F. Newman, St. Clair Shores, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application June 17, 1953, Serial No. 25,538
Term of patent 7 years
(Cl. D90—20)



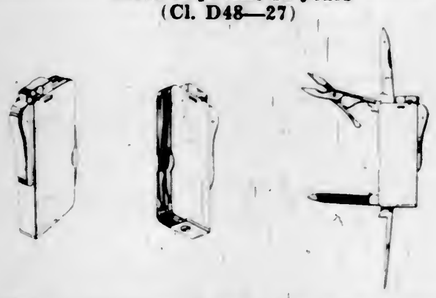
The ornamental design for a tire, as shown.

170,766
FRENCH FRYER
Victor A. Petertil, Oak Park, Ill., assignor to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application March 26, 1953, Serial No. 24,202
Term of patent 14 years
(Cl. D81—10)



The ornamental design for a French fryer, as shown and described.

170,767
COMBINATION POCKETKNIFE AND LIGHTER
Emil S. Polk, New York, N. Y., assignor to Latama Cutlery, Inc., a corporation of New York
Application January 14, 1953, Serial No. 23,131
Term of patent 14 years
(Cl. D48—27)



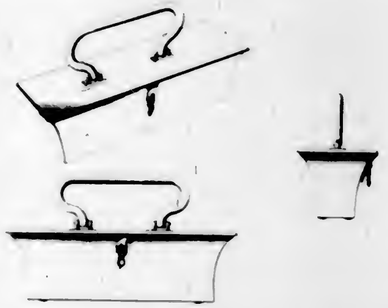
The ornamental design for a combination pocketknife and lighter, as shown.

170,768
SHOE OR SIMILAR ARTICLE
Giuseppe Preti, Ferrara, Italy, assignor to Jacob B. Berland, Los Angeles, Calif.
Application March 3, 1953, Serial No. 23,893
Term of patent 7 years
(Cl. D7—7)



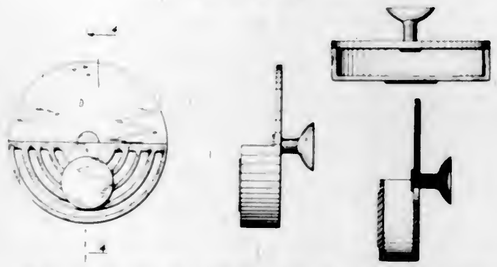
The ornamental design for a shoe or similar article, as shown.

170,769
HANDBAG
Theodore Rosenberg, New Rochelle, and Harry T. Silverman, Forest Hills, N. Y.
Application August 12, 1953, Serial No. 26,418
Term of patent 7 years
(Cl. D87—3)



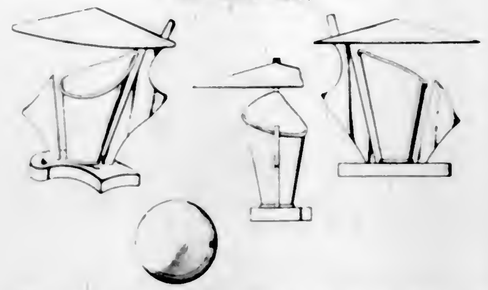
The ornamental design for a handbag, substantially as shown and described.

170,770
CONTAINER UNIT FOR DISINFECTANTS, DEODORANTS, INSECTICIDES, AND THE LIKE
Harry Rosenthal, Peekskill, N. Y., assignor to Van Brode Milling Co., Inc., Clinton, Mass., a corporation of Massachusetts
Application June 1, 1953, Serial No. 25,281
Term of patent 14 years
(Cl. D16—2)



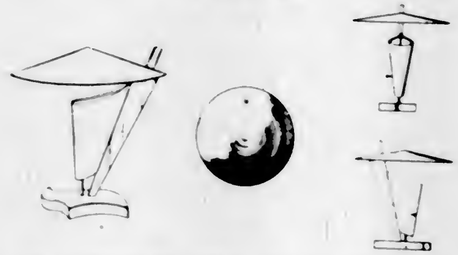
The ornamental design for a container unit for disinfectants, deodorants, insecticides, and the like, as shown.

170,771
TABLE LAMP
William Rosenthal, Culver City, Calif., assignor to Lynard of California, Inc., Culver City, Calif., a corporation of California
Application January 21, 1953, Serial No. 23,237
Term of patent 7 years
(Cl. D48—20)



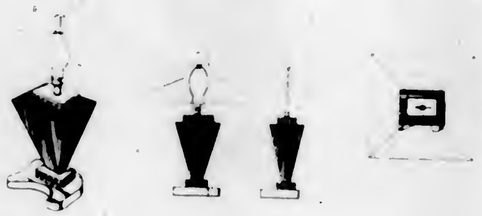
The ornamental design for a table lamp, as shown.

170,772
TABLE LAMP
William Rosenthal, Culver City, Calif., assignor to Lynard of California, Inc., Culver City, Calif., a corporation of California
Application January 21, 1953, Serial No. 23,238
Term of patent 7 years
(Cl. D48—20)



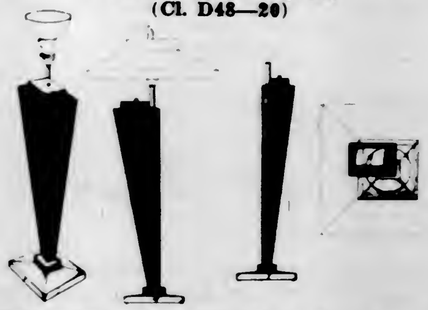
The ornamental design for a table lamp, as shown.

170,773
TABLE LAMP
William Rosenthal, Culver City, Calif., assignor to Lynard of California, Inc., Culver City, Calif., a corporation of California
Application January 21, 1953, Serial No. 23,239
Term of patent 7 years
(Cl. D48—20)



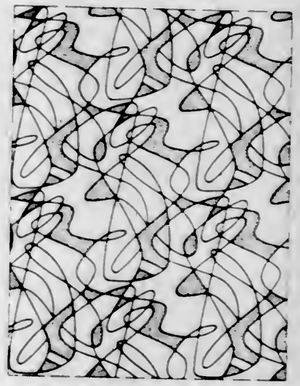
The ornamental design for a table lamp, as shown and described.

170,774
FLOOR LAMP
William Rosenthal, Culver City, Calif., assignor to Lynard of California, Inc., Culver City, Calif., a corporation of California
Application January 21, 1953, Serial No. 23,240
Term of patent 7 years
(Cl. D48—20)



The ornamental design for a floor lamp, as shown and described.

170,775
PLASTIC COATED FABRIC OR SIMILAR ARTICLE
Dominic A. Saporito, Royal Oak, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application April 24, 1953, Serial No. 24,653
Term of patent 14 years
(Cl. D87—3)



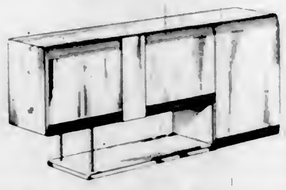
The ornamental design for a plastic coated fabric or similar article, as shown.

170,776
COMBINED FILTER AND MANIFOLD FOR INTERNAL-COMBUSTION ENGINES
Harold R. Sobeck, Novelty, Ohio, assignor to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware
Application May 7, 1953, Serial No. 24,900
Term of patent 14 years
(Cl. D77—1)



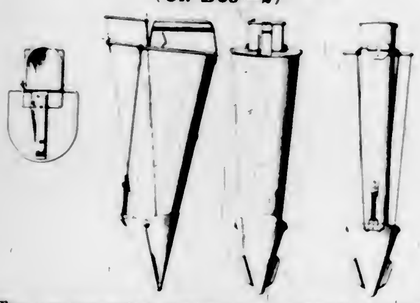
The ornamental design for a combined filter and manifold for internal combustion engines, as shown.

170,777
COMBINED CABINET AND HANGING SHELF UNIT
Harry R. Trout and Frederick M. Hill, Pittsburgh, Pa., assignors to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa., a corporation of Delaware
Application January 6, 1953, Serial No. 23,031
Term of patent 14 years
(Cl. D33—19)



The ornamental design for a combined cabinet and hanging shelf unit, substantially as shown.

170,778
HAND PLANTER
George W. Turner, Lynchburg, Va., assignor to Lynchburg Planter Manufacturing Company, Lynchburg, Va., a corporation of Virginia
Application August 19, 1952, Serial No. 21,099
Term of patent 14 years
(Cl. D35—2)



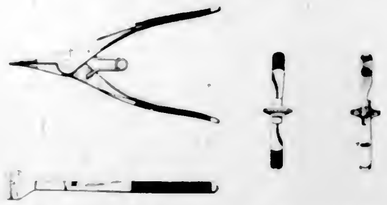
The ornamental design for a hand planter, as shown.

170,779
DRESS
Mamie Verrand, New York, N. Y.
Application July 7, 1953, Serial No. 25,835
Term of patent 3½ years
(Cl. D3—26)



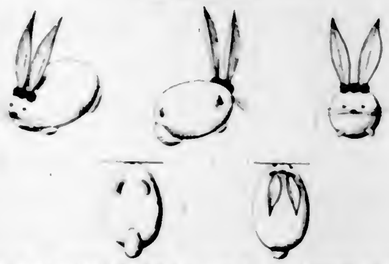
The ornamental design for a dress, substantially as shown.

170,780
PLASTER CAST SPREADING TOOL
Thomas C. Ward, Waco, Tex.
Application August 1, 1952, Serial No. 20,879
Term of patent 14 years
(Cl. D54—13)



The ornamental design for a plaster cast spreading tool, as shown.

170,781
TOY FIGURE OR SIMILAR ARTICLE
Velma G. Weaver, Oklahoma City, Okla.
Application April 24, 1953, Serial No. 24,649
Term of patent 14 years
(Cl. D34—2)



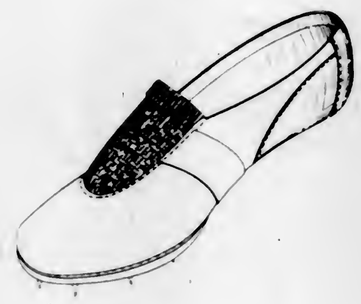
The ornamental design for a toy figure or similar article, as shown.

170,782
SHOE
Theodore Oscar Wegner, London, England
Application October 10, 1952, Serial No. 21,778
Claims priority, application Great Britain May 16, 1952
Term of patent 14 years
(Cl. D7—7)



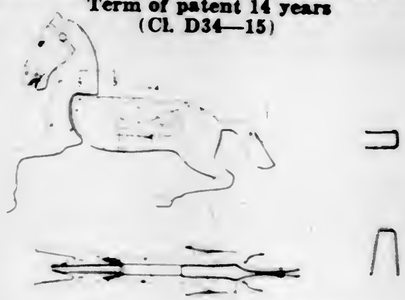
The ornamental design for a shoe, as shown and described

170,783
SHOE
Theodore Oscar Wegner, London, England
Application October 23, 1952, Serial No. 21,947
Claims priority, application Great Britain April 24, 1952
Term of patent 14 years
(Cl. D7—7)



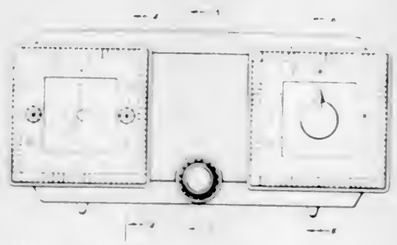
The ornamental design for a shoe, as shown and described.

170,784
ATTACHMENT FOR BICYCLES IN REPRESENTATION OF A PONY
Brennan B. West, Jr., Cleveland Heights, Ohio
Application November 28, 1952, Serial No. 22,468
Term of patent 14 years
(Cl. D34—15)



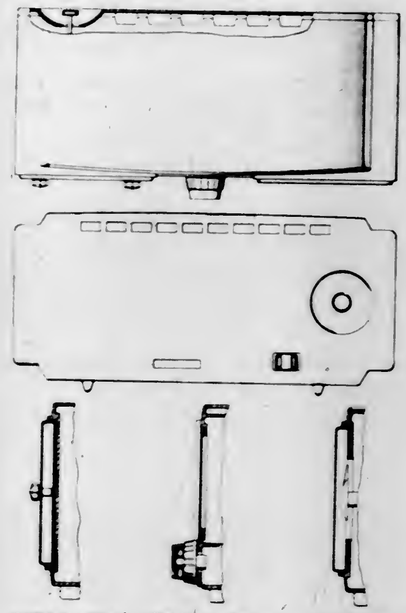
The ornamental design for an attachment for bicycles in representation of a pony, substantially as shown.

170,785
COMBINATION CLOCK AND RADIO CABINET
Lawrence H. Wilson, Grosse Pointe, Mich., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application July 17, 1953, Serial No. 26,031
Term of patent 14 years
(Cl. D56—4)



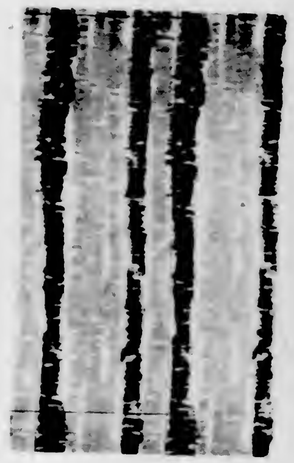
676 O. G. 20

170,785—Continued



The ornamental design for a combination clock and radio cabinet, as shown and described.

170,786
WRAPPING PAPER OR SIMILAR ARTICLE
Walter L. Wolf, Rydal, Pa., assignor to Wolf Brothers, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application March 12, 1953, Serial No. 23,998
Term of patent 14 years
(Cl. D59—2)



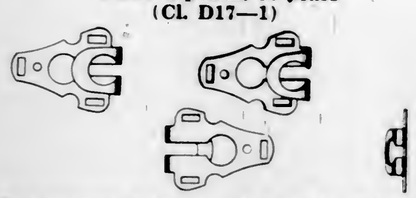
The ornamental design for wrapping paper or similar article, as shown and described.

170,787

HOOK FOR A TROUSER WAISTBAND

Herbert Howard Wood, Birmingham, England, assignor to Thomas Walker Limited, Birmingham, England

Application January 27, 1953, Serial No. 23,307
Claims priority, application Great Britain August 1, 1952
Term of patent 14 years
(Cl. D17—1)



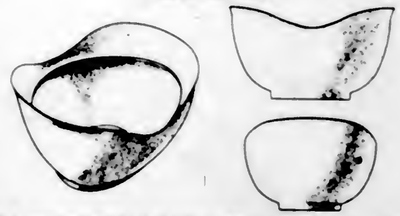
The ornamental design for a hook for a trouser waistband.

170,788

DISH OR THE LIKE

Eva Zeisel, New York, N. Y., assignor to Midhurst China Company, Inc., New York, N. Y., a corporation of Ohio

Application August 29, 1952, Serial No. 21,230
Term of patent 14 years
(Cl. D44—10)



The ornamental design for a dish or the like, substantially as shown.

November 10, 1953 Volume 676 Number 2

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business Oct. 23, 1953

Total number of patent applications awaiting action, 103,000. Date of oldest new application, December 24, 1952; date of oldest amended application, December 18, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows, Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	2-16-53	2-17-53	1313
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	2-10-53	2-6-53	1239
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating, Coating or Plastic Composition (part).	3-2-53	3-2-53	1902
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	2-2-53	2-2-53	1518
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part), Bee Culture; Dairy, Butchering, Animal Husbandry; Fences; Gates	1-16-53	1-6-53	1346
6. SURLE, H., Carbon Chemistry (part)	12-27-52	12-24-52	2861
7. GONSALVES, J. E., Optics; Photography (part):	1-28-53	1-27-53	1746
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	2-24-53	2-24-53	1495
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	2-10-53	2-3-53	1221
10. REYNOLDS, E. R. (NEFF, P. R., Acting): Barrage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	2-24-53	2-25-53	1297
11. BENHAM, E. V., Boots, Shoes and Leggings, Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery, Cleaning and Liquid Treatment of Solids.	2-19-53	2-20-53	1177
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake	2-5-53	2-3-53	1281
13. BEALL, T. E., Gear Cutting, Milling, Planing, Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	1-23-53	1-26-53	1202
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	2-16-53	2-12-53	1462
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass.	1-23-53	1-22-52	1712
16. LOVEWELL, N. N., Television; Telephony; Recorders	1-7-53	1-8-53	1783
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	2-4-53	2-3-53	1494
18. KURZ, J. A., Power Plants; Speed Responsive Devices	2-16-53	2-2-53	734
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-19-53	1-21-53	1104
20. BROWN, L. M., Miscellaneous Hardware, Closure Fasteners; Locks; Undertaking, Bread, Pastry, and Confection Making, Banking Protection; Safes; Canopies, Umbrellas and Canes.	2-24-53	2-24-53	1256
21. MADER, R. C., Textiles	2-2-53	1-28-53	1329
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships, Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	2-13-53	2-13-53	1024
23. ANDRUS, L. M., Cash Registers; Calculators and Counters, Education.	1-30-53	1-22-53	1010
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines, Textiles, Ironing or Smoothing	3-27-53	4-1-53	1113
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors, Distillation.	1-6-53	1-18-53	1423
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	2-10-53	2-16-53	1980
27. JAMES, S., Brushing, Scrubbing and General Cleaning, Brush, Broom and Mop Making	2-9-53	2-9-53	1270
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes, Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service	2-26-53	2-18-53	1149
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	2-2-53	2-9-53	1059
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration, Illuminating Burners.	4-14-53	4-14-53	1414
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	1-21-53	1-6-53	2539
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	3-2-53	3-2-53	1362
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-21-53	1-23-53	1953
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	1-21-53	1-16-53	1284
35. BROMLEY, E. D., Dispensing, Filing and Closing Receptacles	3-2-53	2-6-53	1389
36. McFADYEN, A. D., Measuring and Testing	2-6-53	2-12-53	1091
37. LEVY, M. L., Electricity-Switches, Welding, Heating	2-25-53	2-26-53	1716
38. MARMELSTEIN, N., Coating Processes and Apparatus; Preserving Apparatus (part), Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-23-53	1-23-53	547
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handing (part)	3-10-53	3-12-53	1560
40. DRUMMOND, E. J., Receptacles (part); Packages	5-6-53	5-4-53	910
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	2-18-53	2-17-53	1707

*Commissioner's Examiners' Division

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MAKANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	1-23-53	1-23-53	2234
43. ARNOLD, D., Medicines, Poisons, Cosmetics, Sugar and Starch; Bleaching, Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	1-26-53	1-26-53	1891
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	2-11-53	2-9-53	1325
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	1-27-53	1-8-53	1206
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	2-6-53	2-6-53	1598
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters, Card and Picture Exhibiting.	1-19-53	1-23-53	2270
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation, Wells; Earth Boring	2-9-53	2-6-53	1445
50. BENGEL, W. G., Synthetic Resins; Rubber	4-14-53	4-14-53	1796
51. YAFFEE, S., Radio Signaling, Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	2-16-53	2-16-53	1706
52. WHITNEY, F. I., Supports, Joint Packing, Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	3-2-53	2-26-53	1976
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making, Manifolding, Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	3-4-53	2-24-53	983
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	2-4-53	2-6-53	1893
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-7-53	1-2-53	1542
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	3-10-53	3-10-53	1323
57. MILLER, A. B., Cutting and Punching, Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making, Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	2-18-53	2-18-53	1820
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	1-30-53	2-2-53	1371
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	2-9-53	2-2-53	1481
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery	3-19-53	3-18-53	994
62. SHAPIRO, A., Games; Toys, Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	2-20-53	2-9-53	1830
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	1-19-53	1-14-53	1986
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	2-6-53	2-4-53	1735
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, L., Geometrical Instruments, Automatic Weighers; Weighing Scales	2-24-53	2-18-53	842
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	2-19-53	2-17-53	1605
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-24-53	2-9-53	1539
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	2-9-53	2-9-53	1115
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-24-52	12-18-52	3656
DESIGNS A—BREHM, G. L., Industrial Arts	5-26-53	6-4-53	1100
DESIGNS B—GRAY, M. A., Household, Personal and Fine Arts	5-27-53	6-3-53	856

Number of new applications received week ending October 2, 1953

PATENTS 1,436 DESIGNS 106 REISSUES 2 TOTAL 1,544

Total number of trade-mark applications awaiting action (including renewals and republications), 11,341. Date of oldest new application, May 23, 1953; date of oldest amended application, May 20, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS, AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	5-26-53	5-26-53	2756
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	5-23-53	5-20-53	2913
Renewals (All Classes)	8-21-53	9-23-53	302
Republications (All Classes)	8-18-53	9-24-53	219
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	6-5-53	6-8-53	2508
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	6-1-53	5-26-52	2643

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE MEAKIN

No. 5977. Decided June 3, 1953

[205 F.2d 168; 98 USPQ 159]

1. DIVISION—REQUIREMENT BETWEEN LUBRICATING SUBCOMBINATION AND PELLET MILL HELD PROPER.

Held that the action of the Office in requiring division as to certain claims directed to a lubricating subcombination was proper since the claimed subject matter had attained a status in the art separate from the pellet mill combination and was adapted for practical use independently of the mill.

2. PATENTABILITY—PARTICULAR SUBJECT MATTER—PELLET MILL.

Certain claims directed to a pellet mill *Held* to be structurally fully met, and not inventive over the cited prior art.

APPEAL from Patent Office. Serial No. 612,078.

AFFIRMED.

Charles O. Bruce and *Edward Brosler* for appellant.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

Appellant, having been allowed 11 claims for a pellet mill described in the specification of his application for a patent, appeals here from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in rejecting, as unpatentable over the disclosures of the prior art of record, claims 2, 3, 12, 15, 16, 17, and 19 of the same application.

The references relied upon are: Wallace, 299,883, June 3, 1884; Meakin, 2,065,141, December 22, 1936; Meakin, 2,075,450, March 30, 1937; Gits, 2,077,880, April 20, 1937.

Appealed claims 2, 12, and 15 are illustrative of the involved subject matter. They read:

2. In a pellet mill, a housing; an assembly within said housing and including an extrusion element, a spider for holding said extrusion element in cooperative pressure engagement with a die; and a bowl of inverted frusto-conical shape supported from said housing and surrounding said assembly, said bowl including an upper portion and a removably attached lower portion and a die associated therewith in such cooperative pressure engagement with said extrusion element, said upper portion having its smallest inside diameter slightly in excess of the largest horizontal dimension of said assembly, to permit lowering of said assembly through the portion of said bowl remaining upon removal of said lower portion.

12. In a pellet mill, a gear casing, a gear rotatively supported in such gear casing, a pinion, said gear including a hub and a rim removably secured to said hub and in mesh with said pinion, and a roller assembly including a drive shaft in drive engagement with said gear.

15. In a machine, a chamber, a thrust bearing in said chamber, a shaft extending through said bearing into said chamber and terminating therein in a thrust nut carried on said bearing, and means for maintaining a minimum level of lubricant in said chamber for lubrication of said thrush bearing, said means comprising a wall having an oil sealing connection with the floor of said chamber and extending upwardly about said shaft in slight spaced relationship thereto and to the desired minimum level of lubricant in said chamber.

Appellant makes the following pertinent statement in his specification providing the background upon which the rejected claims were based:

Mills for the manufacture of pellet must, by reason of the heavy extrusion pressures involved, be construed to withstand the large stresses and strains set up during the pelleting process. These machines, therefore, must of necessity be heavy and rugged. The wear on component parts, through mechanical action of the moving parts, or the abrasive and chemical action of the ingredients employed in the pellet mixture, requires occasional servicing and replacement of parts. To preclude wear on other components necessitates sufficient lubrication between all moving surfaces, except between the compression members and the die, from which, of course, all lubricating oil must be excluded.

The solicitor for the Patent Office makes the following additional and pertinent statement in his brief, numerical references to the record being here omitted:

The application in issue relates to improvements for mills which produce pellets by forcing material through a perforated die by rollers, the issuing strands of material being cut into pellets by revolving knives. The claims now in issue relate to three different alleged improvements on prior structures. In order to afford improved access to the roller assembly for repair and the like, the appellant provides for the removal of the die and a portion of the associated conical bowl, in order that the roller assembly may be lowered without further disassembly of the machine.

As a second improvement the main drive gear of the mill is made in two parts, so that, when the gear teeth have become worn, the outer portion may be unbolted from the hub and reversed in position to extend its life.

The third feature is an improvement in the conventional lubrication system to provide a dam-like member which will retain a residual pool of lubricant about a thrust bearing in the event of the failure of the oil seals.

The prior patents to Meakin, Nos. 2,075,450 and 2,065,141, show pellet mills of the general character as that described and claimed in the present application. No. 2,075,450 shows a perforated die plate removably secured in place by means of a split ring, the ends of each section of which are provided with lugs to receive bolts. The perforated die discloses, in conjunction with the upper face of the die plate, a substantially concave bowl with an upper separate extension or access aperture. No. 2,065,141 describes, among other elements of the mill, a main vertical shaft driven by a large gear meshing with a pinion supported by a thrust bearing within a casing.

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The patent to Wallace, 1884, relates to a velocipede and wheels by which driving power is transmitted. The sprocket is made in two parts, a central hub and a detachable outer member, thereby providing for the ready replacement or change of the outer member, consisting of a removable crown, the periphery of which may bear teeth for gearing as well as sprockets.

Details of the structure of the patent to Gits are not in issue and the reference was cited merely to show that lubricating systems have acquired a separate status in the art. On that ground the requirement for division was invoked by the Examiner with respect to claims 15, 16, and 17, who found that in those three claims, appellant merely defined the lubricating subcombination as a part of the claimed machine, and as an element of allowed claim 8. The Examiner quoted and applied the law to the following effect:

We think, however, that where a sub-combination has acquired a separate status in the art, as evidenced by patents being granted for the subject matter of such sub-combinations, and a separate examining division in the Patent Office is set up for its consideration, and where the subject matter of such combination is a matter of common understanding and is adapted for substantial, practical uses other than in, and independent of, the general combination, it would ordinarily not be regarded as so related to the general combination as to entitle it to be claimed in the same application with the combination to which it belonged.

[1] The Board of Appeals approved the action of the Examiner for the stated reason that the bearing lubrication subcombination defined by claims 15, 16, and 17 had attained a status in the art separate from the mill combination and was adapted or adaptable for practical use independently thereof. We agree that such disposition of the point in issue by the tribunals of the Patent Office was in accordance with law. *In re Coulter*, 33 CCPA (Patents) 1088, 155 F.2d 271, 69 USPQ 531; *In re Ferenci*, 23 CCPA (Patents) 1023, 83 F.2d 279, 29 USPQ 162.

Claims 2, 3, and 19 call for a pellet mill having a split die bowl construction comprising an upper half and a removable lower half. The Examiner noted that Meakin No. 2,075,450 had separable sections associated with the flange construction, and held that no invention would be required in the modification thereof, as in the instant application, to provide a removable bottom to the previously disclosed top flange. The Board held not only that the structural limitations of the claims were so broad as to be fully met in the structure of the reference, but also that the claimed structure modification in the instant application was otherwise merely an obvious expedient involving no invention and leading to no unexpected result. The record fully supports the following assertion by the solicitor for the Patent Office:

The claims, thus, read directly on the reference insofar as the structure is concerned, and there would appear to be no question that there is proper basis for the Board's decision. It is undoubtedly true that the 2,075,450 structure does not provide for the lowering of the roller assembly through the bottom of the bowl, but this feature is included in the claims on appeal merely as a final functional clause describing the end to be accomplished. It is rudimentary that the functional statement of a desired result cannot lend patentability to an otherwise non-inventive claim. *In re Dalton et al.*, 38 CCPA 953.

The Board held with respect to its rejection of claim 12 that there would be nothing inventive in making the gear of Meakin 2,065,141 in two pieces, so that the outer portion thereof could be removed without disturbing the hub.

[2] The brief for appellant has many vigorous contentions asserting the alleged fallacies and incongruities of the respective decisions by the tribunals of the Patent Office. A careful analysis thereof and of the facts presented by the record fails to convince the court however that there is any meritorious reason advanced by appellant which would cause us to withhold our approval of the action taken by the Patent Office with respect to the appealed claims. Accordingly, the decision of the Board of Appeals is affirmed.

AFFIRMED.

JACKSON, *J.*, retired, was recalled to participate in this case in place of GARRETT, *C. J.*

U. S. Court of Customs and Patent Appeals

IN RE BARRETT

No. 5932. Decided June 3, 1953

[— F.2d —; 98 USPQ 142]

PATENTABILITY. PARTICULAR SUBJECT MATTER. METHOD OF PREPARING A STARCH-MINERAL PIGMENT COMPOSITION.

Certain claims to a method of preparing a starch-mineral pigment composition *Held* properly rejected as failing to define invention over the cited prior art.

APPEAL from the Patent Office. Serial No. 5932.

AFFIRMED.

H. F. Woodward for appellant.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

WORLEY, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office Affirming the decision of the Examiner in finally rejecting as unpatentable over the prior art all of the claims, 6, 7, 10, 11, 12, 13, 15, 18, and 20 to 23, inclusive, in appellant's application for a patent for "Continuous Preparation of Coating Color."

Claims 6 and 10 are illustrative of the subject matter. They read as follows:

6. A method of preparing a starch-mineral pigment composition comprising, mixing starch, mineral pigment and water to form a slurry, subjecting the slurry to a centrifugal motion to produce high shearing action thereon, heating the mineral in a thin stream to a cooking temperature in a period of 8 to 15 seconds, holding the matreial at this temperature for a time to complete the conversion and then dispersing the cooked material.

10. A method of preparing a coating composition comprising mixing starch, mineral pigment, and water, to form a slurry, continuously flowing a constant volume of the slurry with a centrifugal motion to apply a high shearing action to the material, flowing a thin stream of the material through a cooking step to raise the temperature to within the range of about 170° F. to about 200° F. in about 8.5 seconds to about 10 seconds, holding the cooked material at a temperature within said range for a period of about 10 minutes to about 15 minutes, and then dispersing the cooked material.

The prior art references are: Ruff, 2,140,394, December 13, 1938; Jones et al., 2,210,835, August 6, 1940; Perry—"Chemical Engineer's Handbook"—2nd Edition, pp. 1917 to 1920.

The subject matter of the involved claims relates to the preparation of "a starch-mineral pigment composition," the method of the preparation being sufficiently set out in the quoted claims.

The patent to Ruff relates to a method of preparing a starch enveloped mineral material. It recites the steps of adding two parts of cold water to one part starch "in a vessel preferably equipped with high speed stirring or other agitating device." The vessel is provided with steam coils, or other heating means, in order to heat the water suspension of materials. The slurry which is formed is stirred, three to four parts of finely divided mineral filler being added during the stirring process until all the ingredients are thoroughly admixed, at which stage it is heated to 185° F. until the starch granules burst, thereby coating the mineral particles with a starch film. Thereafter, the material is allowed to cool and gel.

The patent to Jones et al. relates to a paper coating composition which is composed of calcium carbonate and an adhesive. A very fine grinding of the carbonate results in a reduction of the amount of adhesive required over that which is required when the grinding is not so fine. The grinding step is accomplished by passing the carbonate between adjacent rotating discs. Thus the carbonate is freshly precipitated and dried after which it is mixed with casein, ballmilled for two hours and then passed between the face of a rapidly rotating alundum disc and the face of a stationary disc which is pressed against the alundum disc.

The Perry reference was cited merely to illustrate what is commonly known to chemical engineers and those skilled in the art of fine grinding.

Although the Examiner rejected the claims as devoid of invention over Jones et al. in view of Ruff, the Board of Appeals, in affirming such action, relied solely on the Ruff reference as the basis of rejection. An examination of the cited art brings us to the conclusion that the action of the Board was correct, therefore, we limit our consideration of the appealed claims to the disclosures in the patent to Ruff.

It is contended by appellant that his alleged invention is patentably distinct over the patent to Ruff in that the slurry (pigment, water, and starch) is blended together in the initial stages and then caused to flow in a thin stream through a heating step with the temperature in a range of 170° to 200° F. for a period of approximately two minutes and thereafter the hot material is "flown" with centrifugal motion to obtain a shearing action; that the production of such a coating contains an adhesive value of starch which is greater than that produced by any known process; that while it is admittedly old to pass material through heating coils to raise the temperature thereof, it is new with him to pass a starch-pigment-water material through heating coils to quickly attain a cooking temperature thereof; that excessive cooking or excessive heating of the starch at any stage during the operation tends to destroy the colloidal properties of the starch, which is avoided by utilizing the process embodied in the instant application.

In its decision, the Board of Appeals cited claim 6 as illustrative of the claims on appeal and properly stated that all the steps recited in that claim were anticipated in the Ruff reference with the exception of "heating the material in a thin stream to a cooking temperature in a period of 8 to 15 seconds," and that no patentable merit is found in that limitation because it is old and well known to pass material in a thin stream through a heating coil and that there is no showing of unobvious results being obtained in raising the temperature in a period of 8 to 15 seconds.

In answer to appellant's petition for reconsideration, the Board added, with reference to the novelty on the part of appellant of passing a mixture of starch, clay and water through a heating coil, that although that practice might be new with appellant, novelty alone is not sufficient to impart patentability to a claim but that invention must also be present.

The Board then added:

We have given careful consideration to all of the limitations directed to our attention by appellant, and particularly to the limitation in claim 18 that the cooked material is dispersed while it is hot, and to the limitations in claims 20 and 22 to the effect that the solid content of the coating composition is in excess of 50% and in excess of 65 to 70%, respectively, but we find no patentable merit therein because the appellant has failed to show that any unobvious results are produced by dispersing the cooked material while hot, and it is evident from the fact of the solid content of the coating composition is not specified in most of the claims that it is not of critical significance. • • •

We have found nothing in the record nor in the brief of appellant to justify our reversing the decision of the Board. We believe the Board was correct in holding that since appellant failed to show that his method produced any unobvious or unexpected results over those of the prior art, invention was not present.

The decision of the Board of Appeals is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,135,114, E. A. Rockwell, Vacuum brake booster; 2,244,317, same, Hydraulic power system; 2,305,638, same, Hydraulic brake trailer system; 2,372,013, same, Amplifying fluid pressure device; 2,372,014, same, Travel control actuating apparatus; Re. 20,600, E. G. Staude, Fluid power controlling mechanism; 2,467,273, E. A. Rockwell, Power apparatus with travel control; 2,383,618, same, Power unit system; 2,405,852, same, Power unit; 2,418,666, same, Power unit system for applying brakes; 2,434,588, same, Power system; Re. 20,910, same, Fluid pressure brake, D. C. Del., Doc. 1199. *Bendix Aviation Corp. v. Electrofio Corp. et al.* Consent decree holding 2,135,114, 2,305,638, 2,372,013, 2,383,618, 2,405,852, 2,418,666, 2,434,588, Re. 20,910 valid and infringed; complaint and counterclaim dismissed with prejudice Aug. 7, 1953.

2,198,425, 2,279,435. E. Berg. Hair net, filed Aug. 6, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1706, *Regal Mfg. Co.* v. *Bonnie Mfg. Co. et al.*

2,237,567. E. H. Land. Light polarizer and process of manufacturing same; 2,454,515, same, Light-polarizing sheet, etc.; 2,238,219, E. V. Fineran, Temperature controlling device, filed Aug. 7, 1953, D. C. Mass. (Boston), Doc. 53/797, *Polaroid Corp.* v. *Loew's, Inc.*

2,238,219. (See 2,237,567.) 2,243,999. (See 2,593,134.)

2,244,317. (See 2,135,114.) 2,279,435. (See 2,198,425.)

2,305,638. (See 2,135,114.)

2,329,314. (See Des. 137,071.)

2,372,013. (See 2,135,114.) 2,372,014. (See 2,135,114.)

2,383,618. (See 2,135,114.)

2,390,485. (See Des. 137,071.)

2,399,086. (See Des. 137,071.)

2,405,852. (See 2,135,114.) 2,418,666. (See 2,135,114.)

2,434,588. (See 2,135,114.)

2,438,095. (See Des. 137,071.)

2,448,165. (See Des. 137,071.)

2,454,515. (See 2,237,567.) 2,467,273. (See 2,135,114.)

2,509,972. (See Des. 158,041.)

2,512,995. (See Des. 158,041.)

2,516,774. (See Des. 158,041.)

2,563,638. (See Des. 137,071.)

2,575,783. (See Des. 137,071.)

2,593,134. S. Y. Gibbons. Apparatus for treatment of croup; 2,624,337, same, Equipment for treatment of respiratory ailments; 2,598,532, same, Baby incubator; 2,243,999, C. C. Chapple, same; 2,600,240, B. C. Griebe, Construction of incubators for infants, filed Aug. 11, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30463, *Air-Shields, Inc., et al.* v. *The Gordon Armstrong Co., Inc.*

2,598,532. (See 2,593,134.) 2,600,240. (See 2,593,134.)

2,624,337. (See 2,593,134.)

2,630,295, 2,630,296, M. B. Lucker, Automobile jack, filed Aug. 5, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30445, *Auto Specialties Mfg. Co.* v. *Caster Mold & Machine Co. et al.*

2,630,296. (See 2,630,295.)

Re. 20,600. (See 2,135,114.)

Re. 20,910. (See 2,135,114.)

Des. 137,071. Des. 141,974, 2,329,314, 2,399,086, 2,448,165, W. C. Wright, Shoe welt; 2,390,485, same, Shoe and welt therefor; Des. 142,739, Des. 142,740, W. E. Phinney, Welting; 2,438,095, same, Seam-filling shoe welt; Des. 161,674, Batchelder & Withington, same; Des. 163,559, Des. 163,560, C. F. Batchelder, Jr., Prestitched beaded shoe welting; 2,563,638, Batchelder & Withington, Right-angled welt; 2,575,783, same, Beaded mock welting for McKay type footwear, filed Aug. 5, 1953, D. C. Del., Doc. 1557, *Lawrence Process Co.* v. *Shoe Patents Corp.*

Des. 141,974. (See Des. 137,071.)

Des. 142,739. (See Des. 137,071.)

Des. 142,740. (See Des. 137,071.)

Des. 158,041, J. Berger, Stroller; 2,512,995, same, Stroller having removable chair; Des. 158,069, L. Gottfried, Combined high chair and table; 2,509,972, same, Chair and base therefor releasably secured thereto; 2,516,774, same, Convertible high chair, D. C. Mass. (Boston), Doc. 50/875, *The Stroll-O-Chair Corp.* v. *Worcester Chrome Furniture Mfg. Co.* Stipulation of dismissal July 29, 1953.

Des. 158,069. (See Des. 158,041.)

Des. 161,674. (See Des. 137,071.)

Des. 163,559. (See Des. 137,071.)

Des. 163,560. (See Des. 137,071.)

NOTICES

Disclaimer

2,639,677.—*Swan F. Anderson*, Rockford, Ill. SANDWICH MACHINE. Patent dated May 26, 1953. Disclaimer filed Sept. 30, 1953, by the inventor and the assignee, *Ralph F. Anderson*.

Hereby disclaim claims 1 and 2 of said patent.

Cancellation Notices

[6119]

George W. Stimpson, his assigns or legal representatives, take notice:

The Post Printing and Publishing Company, of 650 Fifteenth Street, Denver, Colorado, has filed a petition for cancellation of Trade-Mark Registration No. 418,797 of George W. Stimpson, 726 National Press Building, Washington, D. C., registered January 8, 1946, and notice of such proceeding has been sent by registered mail to the said George W. Stimpson at the said address and has been returned by the post office as undeliverable.

Since this Office has been informed that the registrant is now deceased, notice is hereby given that unless the assigns or legal representatives shall enter an appearance in the aforesaid cancellation proceeding within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Nov. 3.)

DAPHNE LEEDS,
Assistant Commissioner of Patents.

Oct. 6, 1953.

[6120]

Ben B. Krasnow, his assigns or legal representatives, take notice:

The Deerfield Groves Company of Wabasso, Indian River County, Florida, has filed a petition for cancellation of Trade-Mark Registration No. 319,292 of Ben B. Krasnow of California Fruit Building, Sacramento, California, registered November 20, 1934, and notice of such proceeding has been sent by registered mail to the said Ben B. Krasnow at the said address and has been returned by the post office as undeliverable.

Since this Office has been informed that the registrant is now deceased, notice is hereby given that unless the assigns or legal representatives shall enter an appearance in the aforementioned cancellation proceeding within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Nov. 3.)

DAPHNE LEEDS,
Assistant Commissioner of Patents.

Oct. 12, 1953.

[6127]

Charles E. Newman, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Gould Novelties, Inc., 1657 Broadway, New York, New York, to effect the cancellation of trade-mark registration of Charles E. Newman, 3619 Broadway, Kansas City, Missouri; No. 316,849, dated September 4, 1934, and the notice of such proceeding sent by registered mail to the said Charles E. Newman, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Charles E. Newman, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published for three consecutive weeks in the OFFICIAL GAZETTE. (Date of first publication—Nov. 3.)

DAPHNE LEEDS,
Assistant Commissioner of Patents.

Oct. 12, 1953.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A. I. T. Diamond Tool Company, Chicago, Ill. Diamond abrasive wheels. Serial No. 643,453, Nov. 10. Class 4.

Air-Shields, Inc., Hatboro, Pa. Resuscitators. Serial No. 636,672, Nov. 10. Class 44.

Aktiebolaget Tetra Pak, Lund, Sweden. Cartons. Serial No. 623,383, Nov. 10. Class 2.

Aktiebolaget Tetra Pak, Lund, Sweden. Cartons. Serial No. 623,385, Nov. 10. Class 2.

Aktieselskabet Danisco, also trading as Danisco, Ltd., and as Aktieselskabet Dansk Handels- Og Industri Compagni (Danisco), Copenhagen, Denmark. Alcoholic punch. Serial No. 622,914, Nov. 10. Class 49.

Aktieselskabet Dansk Handels- Og Industri Compagni (Danisco): *See*—
Aktieselskabet Danisco.

Alatol, Incorporated, Philadelphia, Pa. Abrasive black board scrub block. Serial No. 627,917, Nov. 10. Class 4.

Alexandria Shoe Machinery Co.: *See*—
Silberman, Benjamin.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power operated industrial sifters and power operated vibrating screens. Serial No. 603,142, Nov. 10. Class 23.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power operated vibrating screens. Serial No. 631,594, Nov. 10. Class 23.

American Grease Stick Company, Muskegon and Muskegon Heights, Mich. Lubricating oils. Serial No. 647,468, Nov. 10. Class 15.

American Thread Company, The, New York, N. Y. Thread. Serial No. 647,829, Nov. 10. Class 43.

American Thread Company, The, New York, N. Y. Thread. Serial No. 648,277, Nov. 10. Class 43.

American Tractor Corporation, Churubusco, Ind. Power operated lift trucks. Serial No. 638,389, Nov. 10. Class 23.

Amston Silver Company, Inc., Amston, Conn. Sterling silver flatware. Serial No. 573,700, Nov. 10. Class 28.

Andresen Corporation, Chicago, Ill. Cold tar product. Serial No. 645,282, Nov. 10. Class 12.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Hairdressing. Serial No. 644,951, Nov. 10. Class 51.

Aridor Company, The, assignee: *See*—
Jaques Manufacturing Company.

Arizona Chemical Company, New York, N. Y. Crude tall oil, tall oil pitch and tall oil rosin. Serial No. 646,919, Nov. 10. Class 1.

Arliss, Charles, doing business as Premier Plastics Co., Brooklyn, N. Y. Doll. Serial No. 651,381, Nov. 10. Class 22.

Armour & Company, Chicago, Ill. Synthetic detergent. Serial No. 548,469, Nov. 10. Class 52.

Armstrong Rubber Company, The, West Haven, Conn. Sponge and foam rubber. Serial No. 623,330, Nov. 10. Class 1.

Aseptic-Thermo Indicator Co., Los Angeles, Calif. Chemically treated paper indicators. Serial No. 646,349, Nov. 10. Class 6.

Associated Brand, Inc., Brooklyn, N. Y. Bubble producing bath preparation, cologne, bath powder, etc. Serial No. 643,136, Nov. 10. Class 51.

Athey Products Corporation, Chicago, Ill. Loaders—namely, self-propelled and tow-type loading machines, tractor-supported loading machines, etc. Serial No. 631,528, Nov. 10. Class 23.

Automatic Liquid Meter Co.: *See*—
Gulbert, Francis W.

Avion Instrument Corporation, Paramus, N. J. Power amplifiers, electrical gyroscopes, servomotors, etc. Serial No. 622,099, Nov. 10. Class 21.

B & L Tool and Machine Co., The, Plainville, Conn. Electrically heated paint, putty, and wallpaper removers. Serial No. 623,531, Nov. 10. Class 21.

Becken, A. C., Co., Chicago, Ill. Pearls and pearl necklaces. Serial No. 645,770, Nov. 10. Class 28.

Bellinson, L. & D., Inc., New York, N. Y. Women's, misses', and juniors' dresses, suits, blouses, etc. Serial No. 644,824, Nov. 10. Class 39.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Picnic jugs, vacuum bottles, lunch boxes, etc. Serial No. 630,696, Nov. 10. Class 2.

Berjon Company, Memphis, Tenn. Alkalinized analgesic compound. Serial No. 621,353, Nov. 10. Class 18.

Berkowitz, Michael, Co., Inc., New York, N. Y. Women's, misses' and children's pajamas. Serial No. 638,131, Nov. 10. Class 39.

Better Brushes, Incorporated, Palmer, Mass. Paste cleaner for hands; paste cleaner for woodwork, etc. Serial No. 639,413, Nov. 10. Class 52.

Blair Corset Co., Inc., Chicago, Ill. Corselettes. Serial No. 647,753, Nov. 10. Class 39.

Bonekemper, Arthur P., doing business as Bonekemper Machine Service, Norristown, Pa. Racks for storage of typed magazines. Serial No. 645,284, Nov. 10. Class 32.

Bonekemper Machine Service: *See*—
Bonekemper, Arthur P.

Borden Company, The, New York, N. Y. Frozen uncooked chicken, frozen vegetables, and frozen fruits. Serial No. 621,253, Nov. 10. Class 46.

Borg-Warner Corporation, Chicago, Ill. Machines for drying textiles and similar fabrics and parts thereof. Serial No. 647,755, Nov. 10. Class 24.

Botany Mills, Inc., Passaic, N. J. Shaving cream. Serial No. 646,984, Nov. 10. Class 51.

Bourjois, Inc., New York, N. Y. Perfume, cologne, and dusting powder. Serial No. 644,891, Nov. 10. Class 51.

Boza F. Gonzalo, New York, N. Y. Agricultural machetes and knives. Serial No. 613,156, Nov. 10. Class 23.

Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Services rendered manufacturers of all kinds of fabrics. Serial No. 648,364, Nov. 10. Class 106.

Braun, Robert H., Company, Los Angeles, Calif. Materials handling machines. Serial No. 638,933, Nov. 10. Class 23.

Buckeye Products Company, The, Cincinnati, Ohio. Liquid parting agent. Serial No. 638,688, Nov. 10. Class 1.

Bücking, Hans J., Alsfeld (Hessen), Germany. Men's, women's, and children's topcoats and overcoats; men's and women's suits; sport coats, etc. Serial No. 639,206, Nov. 10. Class 39.

Buckman, Louis J., doing business as Namkub Products Co., South Boston, Mass. Semi-rigid plastic seam and edge binding for flooring. Serial No. 636,114, Nov. 10. Class 12.

Burns, E. Reed, Mfg. Corp., Brooklyn, N. Y. Buffing and polishing compounds. Serial No. 646,454, Nov. 10. Class 4.

Burwood Products Company, Traverse City, Mich. Brush handles and backs of brushes. Serial No. 636,202, Nov. 10. Class 29.

Calumet and Hecla Consolidated Copper Company, Calumet, Mich. Condenser tube. Serial No. 605,296, Nov. 10. Class 34.

Carney Company, Inc., The, Mankato, Minn. Rockwool batts. Serial No. 625,336, Nov. 10. Class 12.

Carpenter Steel Company, The, Reading, Pa. Steel. Serial No. 644,664, Nov. 10. Class 14.

Central Compounding Company, Chicago, Ill. Additive for flexographic aniline inks. Serial No. 646,522, Nov. 10. Class 11.

Chicago Roller Skate Company, Chicago, Ill. Roller skates. Serial No. 631,048, Nov. 10. Class 22.

Cloth Laying Appliances Corp., Woodside, N. Y. Laying and spreading machines, pin bar tools, and tools consisting of metal slabs, etc. Serial No. 504,034, Nov. 10. Class 23.

Columbus Dental Manufacturing Co., The, Columbus, Ohio. Prepared porcelain for use by the dental profession. Serial No. 640,499, Nov. 10. Class 44.

Comer Produce Company, Phoenix, Ariz. Fresh vegetables and melons. Serial No. 642,949, Nov. 10. Class 46.

Comet Model Hobbycraft, Inc., Chicago, Ill. Model airplanes kits and parts thereof. Serial No. 606,852, Nov. 10. Class 22.

Compagnie Generale des Conduites d'Eau, Les Vennes, Liege, Belgium. Refractory substances for use in lining furnaces, cupolas and the like, etc. Serial No. 629,232, Nov. 10. Class 12.

Consolidated Vultee Aircraft Corporation, San Diego, Calif. Cathode-ray tubes. Serial No. 626,312, Nov. 10. Class 21.

Container Corporation of America, Chicago, Ill. Paper board boxes and cartons. Serial No. 637,536, Nov. 10. Class 2.

Cream-O-Chocolate Co.: *See*—
Hoag, Paul B.

Crossett Chemical Company, Crossett, Ark. Tall oil. Serial No. 646,924, Nov. 10. Class 1.

Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses, skirts, coats, etc. Serial No. 647,834, Nov. 10. Class 39.

Cutler, Jess & C. A., Inc., Columbus, Ga. Pellets for feeding chinchillas. Serial No. 646,535, Nov. 10. Class 46.

Danisco, Ltd.: *See*—
Aktieselskabet Danisco.

Dannen Mills, Inc., St. Joseph, Mo. Feeds. Serial No. 543,902, Nov. 10. Class 46.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. Serial No. 621,951, Nov. 10. Class 42.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. Serial No. 634,301, Nov. 10. Class 42.

Dargue Brothers, Limited, Halifax, England. Set squares, adjustable set squares, protractors, etc. Serial No. 619,457, Nov. 10. Class 26.

Dearborn Company, Inc., Providence, R. I. Jewelry. Serial No. 644,901, Nov. 10. Class 28.

Delta Gamma Fraternity, Columbus, Ohio. Fraternity badges, lapel buttons; scarf, lapel and breast pins, etc. Serial No. 635,905, Nov. 10. Class 28.

Dickey, W. S., Clay Manufacturing Co., Kansas City, Mo. Roof flashing. Serial No. 643,823, Nov. 10. Class 12.

Dickson Fuel Corporation, Philadelphia, Pa. Coal. Serial No. 638,950, Nov. 10. Class 1.

Dore, Lucien, doing business as Plast-O-Bright Products, assignor to Du Verger-Dennis Corporation, Miami, Fla. Polish. Serial No. 628,851, Nov. 10. Class 4.

Doro Designs Inc., New York, N. Y. Scarfs. Serial No. 643,299, Nov. 10. Class 39.

Dow Chemical Company, The, Midland, Mich. Composition for adding to antifreeze solutions. Serial No. 645,969, Nov. 10. Class 6.

Drew, C., & Company, Inc., Kingston, Mass. Hand tools. Serial No. 639,418, Nov. 10. Class 23.

Dunn, W. E., Manufacturing Company, The, Holland, Mich. Machine for the manufacture of concrete brick, tile and slabs. Serial No. 612,593, Nov. 10. Class 23.

Dupli-Color Products Co., Inc., Chicago, Ill. Decalcomania color tones in the nature of paints or lacquers. Serial No. 632,420, Nov. 10. Class 16.

Du Verger-Dennis Corporation: *See*—
Dore, Lucien.

Dyckerhoff Portland-Zementwerke A.-G., Wiesbaden, Germany. Portland cement. Serial No. 628,927, Nov. 10. Class 12.

Eastmor Leather Trading Corp., Gloversville, N. Y. Water repellent hides, skins, and suedes. Serial No. 644,833, Nov. 10. Class 1.

Eberhardt Manufacturing Co., St. Louis, Mo. Trousers creasers. Serial No. 649,136, Nov. 10. Class 24.

Edmund Scientific Corporation, Barrington, N. J. Binoculars and microscopes. Serial No. 637,706, Class 26.

Electric & Musical Industries Limited, Hayes, England. Apparatus for the recording on magnetic tape, etc. Serial No. 637,764, Nov. 10. Class 21.

Emco Porcelain Enamel Co., Inc., Port Chester, N. Y. Assembly of food storage bins. Serial No. 643,670, Nov. 10. Class 2.

Enterprise Aluminum Company, The, Massillon, Ohio. Base metal cooking hollow ware. Serial No. 631,856, Nov. 10. Class 13.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing reels. Serial Nos. 651,096–7, Nov. 10. Class 22.

Eureka Manufacturing Company, Inc., Taunton, Mass. Fabric lined cases. Serial No. 644,105, Nov. 10. Class 2.

Eutectic Welding Alloys Corporation, Flushing, N. Y. Covered metal electrode. Serial No. 645,558, Nov. 10. Class 21.

Fabrique d'Horlogerie Sindaco S. A., Muralto, Switzerland. Watches, alarm clocks, and parts thereof and watch and alarm clock cases. Serial No. 636,068, Nov. 10. Class 27.

Fairfield Glove Co., Fairfield, Iowa. Work gloves. Serial No. 646,210, Nov. 10. Class 39.

Fearn Foods Inc., Franklin Park, Ill. Curing and preserving compounds, seasoning compounds, gum and cereal binders, etc. Serial No. 634,974, Nov. 10. Class 46.

Feder, Jack, Forest Hills, N. Y. Sewing machine and sewing machine parts. Serial No. 646,857, Nov. 10. Class 23.

Federal Malleable Company, Milwaukee, Wis. Electric space heaters. Serial No. 645,560, Nov. 10. Class 21.

Felton Beauty Supply Company Inc., Atlanta, Ga. Cosmetics. Serial No. 633,974, Nov. 10. Class 51.

Ferguson, Dorothy, Greeley, Colo., Frozen cookie dough. Serial No. 636,227, Nov. 10. Class 46.

Fine, Max, & Sons, Inc., New York, N. Y. Finger rings. Serial No. 644,023, Nov. 10. Class 28.

First Texas Chemical Mfg. Co., Dallas, Tex. Preparation for the temporary relief to essential hypertension. Serial No. 647,406, Nov. 10. Class 18.

First Texas Chemical Mfg. Co., Dallas, Tex. Suspension of sulfadiazine and sulfamethazine. Serial No. 647,408, Nov. 10. Class 18.

Forschmidt Celery Company: *See*—
Forschmiedt, Henry.

Forschmiedt, Henry, doing business as Forschmidt Celery Company, Dallas, Tex. Fresh celery and fresh carrots. Serial No. 644,406, Nov. 10. Class 46.

Foster-Milburn Company, doing business under the name and style of Westwood Pharmaceuticals, Buffalo, N. Y. Skin protective cream. Serial No. 635,878, Nov. 10. Class 51.

Freudmann, M., Co.: *See*—
Freudmann, Marcel.

Freudmann, Marcel, doing business as M. Freudmann Co., New York, N. Y. Diamond rings, and diamonds. Serial No. 639,423, Nov. 10. Class 28.

Garcia, Charles, & Co., Inc., New York, N. Y. Spinning reel. Serial No. 651,653, Nov. 10. Class 22.

General Paint Corporation, San Francisco, Calif. Interior wall paint. Serial No. 622,649, Nov. 10. Class 16.

Gilbert Beautician Supply Company, Charlotte, N. C. Cream neutralizer, waving solution, cream fixative, etc. Serial No. 626,990, Nov. 10. Class 51.

Green, Ira, Inc., New York, N. Y. Gold plated insignia. Serial No. 633,055, Nov. 10. Class 28.

Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Dry cleaning preparation. Serial No. 643,953, Nov. 10. Class 52.

Grossman, Ralph E., doing business as Picture Craft Company, Decatur, Ill. Toy painting kits. Serial No. 633,978, Nov. 10. Class 22.

Guibert, Francis W., doing business as Automatic Liquid Meter Co., Los Angeles, Calif. Meters for measuring the flow of liquids. Serial No. 618,579, Nov. 10. Class 26.

Hanse, Wilbert W., Co., Broadview, Ill. Materials and supplies used in the manufacture of burial vaults. Serial No. 626,567, Nov. 10. Class 12.

Hagerstown Shoe Company, The, Hagerstown, Md. Men's, women's, and children's shoes and shoe soles. Serial No. 644,300, Nov. 10. Class 39.

Hal-Hen Company, Woodside, N. Y. Hearing aids. Serial No. 647,415, Nov. 10. Class 44.

Handcraft Company, Inc., The, Princeton, Wis. Combined socks and slippers. Serial No. 611,842, Nov. 10. Class 39.

Heller Hostess-Ware, Inc., White Plains, N. Y. Beverage sets all made of anodized aluminum. Serial No. 639,115, Nov. 10. Class 13.

Hercules Powder Company, Wilmington, Del. Cotton fibers. Serial No. 647,006, Nov. 10. Class 1.

Hirsh, S. A., Manufacturing Co., Skokie, Ill. Shelf molding price tag holder. Serial No. 636,358, Nov. 10. Class 13.

Hoag, Paul B., doing business as Cream-O-Chocolate Co., Kansas City, Mo. Malted milk powder. Serial No. 638,798, Nov. 10. Class 46.

Holtzinger, C. M., Fruit Co., Inc., Yakima, Wash. Fresh deciduous fruits. Serial No. 640,859, Nov. 10. Class 46.

Home Accessories Manufacturing Company, Jacksonville, Ill. Portable electrically heated steam baths. Serial No. 622,937, Nov. 10. Class 21.

Home Improvement Company: *See*—
Mann, Sydney.

Hoover Company, The, North Canton, Ohio. Electric motors. Serial No. 638,260, Nov. 10. Class 21.

Hopp Press, Inc., The, New York, N. Y. Plastic price numerals and plastic holders. Serial No. 609,299, Nov. 10. Class 50.

Inertol Co., Inc., Newark, N. J. Water-resistant and protective paint or enamel coating. Serial No. 646,943, Nov. 10. Class 16.

Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Electrotypers' wax, bayberry wax, ceresine wax, etc. Serial Nos. 621,016–17, Nov. 10. Class 15.

International Minerals & Chemical Corporation: *See*
Innis, Speiden & Co., Inc.

International Paper Company, New York, N. Y. Paper bags. Serial No. 648,673, Nov. 10. Class 2.

Iowa Soap Company, Burlington, Iowa. Soap. Serial No. 646,475, Nov. 10. Class 52.

Jaques Manufacturing Company, assignor to The Aridor Company, Chicago, Ill. Closure caps for cans, jars and bottles. Serial No. 632,427, Nov. 10. Class 50.

Johns-Manville Corporation, New York, N. Y. Asbestos-cement flue pipe. Serial No. 646,398, Nov. 10. Class 12.

Kahn and Feldman, Inc., New York, N. Y. Yarns. Serial No. 646,071 Nov. 10. Class 43.

Kaye, John, & Son (Huddersfield) Limited, Huddersfield, England. Piece goods and blankets, travel rugs, etc. Serial No. 639 649, Nov. 10. Class 42.

Kellogg, James W., doing business as James W. Kellogg Co., Chicago, Ill. Mineral nutrient tablets. Serial No. 606,977, Nov. 10. Class 18.

Kellogg, James W., Co.: *See*—
Kellogg, James W.

Koerber, Ernest F., doing business as Steel Products Fabricators, Chicago, Ill. Machines, namely, continuous-belt conveyors, etc. Serial No. 614,557, Nov. 10. Class 23.

Kress, S. H., and Company, New York, N. Y. Cotton piece goods. Serial No. 647,781, Nov. 10. Class 42.

Lakeside Central Company, Chicago, Ill. Mailing envelopes. Serial No. 638,934, Nov. 10. Class 37.

Lentheric, Incorporated, New York, N. Y. Perfume. Serial Nos. 644 557–8, Nov. 10. Class 51.

Les Parfums de Jacques Griffe, Paris, France. Perfumes. Serial No. 631,212, Nov. 10. Class 51.

Lieber & Lerner, New York, N. Y. Watches. Serial No. 643,966, Nov. 10. Class 27.

Lindemann, A. J., & Hoverson, Company, The, Milwaukee, Wis. Electric oven cooking units. Serial No. 645,247, Nov. 10. Class 21.

Lufkin Rule Company, The, Saginaw, Mich. Tape measures. Serial No. 642,232, Nov. 10. Class 26.

Made-Rite Potato Chip Co. Inc., Fall River, Mass. Potato chips, pretzels, popcorn, etc. Serial No. 640,404, Nov. 10. Class 46.

Malton Tool Corporation, New York, N. Y. Ratcheting box wrenches, screw drivers, pipe wrenches, etc. Serial No. 606,023, Nov. 10. Class 23.

Mann, Sydney, doing business as Home Improvement Company, Kansas City, Mo. Siding and wallboard. Serial No. 639,230, Nov. 10. Class 12.

Martin Fabrics Corporation, New York, N. Y. Webbing. Serial No. 647 864, Nov. 10. Class 42.

Massengill, S. E., Company, The, Bristol, Tenn. Sedative. Serial No. 647,361, Nov. 10. Class 18.

Mathieson Chemical Corporation, New York, N. Y. Antihypertensive agent. Serial No. 647,212, Nov. 10. Class 18.

Merlino, Angelo & Sons, Seattle, Wash. Olive oil. Serial No. 571,448, Nov. 10. Class 46.

Metal Mending Products, Inc., Milwaukee, Wis. All-metal fluxes for soldering. Serial No. 644,510, Nov. 10. Class 6.

Metro-Atlantic Inc., Centredale, R. I. Textile resin finishes. Serial Nos. 646,786–7, Nov. 10. Class 6.

Meyer Chemical Company, Detroit, Mich. Preparation for relief of allergic conditions. Serial No. 630,196, Nov. 10. Class 18.

Miller, Florence: *See*—
Miller, Florence O.

Miller, Florence O., doing business as Florence Miller, Dallas, Tex. Newspaper features. Serial No. 623,974, Nov. 10. Class 38.

Millville Manufacturing Company, The, Philadelphia, Pa. Piece goods. Serial No. 647,793, Nov. 10. Class 42.

Minnesota and Ontario Paper Company, Minneapolis, Minn. Water proofed vegetable fibed board. Serial No. 634,050, Nov. 10. Class 12.

Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Textile, woven, woolen rugs and carpets. Serial No. 647,794, Nov. 10. Class 42.

Monsanto Chemical Company, St. Louis, Mo. Chemical preservatives for use in livestock feeds. Serial No. 645,504, Nov. 10. Class 46.

Moore Business Forms, Inc., Niagara Falls, N. Y. Machines for feeding paper in relation to recording machines. Serial No. 630,281, Nov. 10. Class 23.

Morszeck, Richard, Koln-Junkersdorf, Germany. Trunks. Serial No. 634,020, Nov. 10. Class 3.

Mountain Home Smart Apparel, Chicago, Ill. Knit fabrics. Serial No. 623,063, Nov. 10. Class 42

Namkub Products Co.: *See*—
Buckman, Louis J.

National Silk Company, Incorporated, The, South Coventry, Conn. Threads, yarns, and novelty yarns. Serial No. 643,178, Nov. 10. Class 43.

National Society for Crippled Children and Adults, Inc., The, Chicago, Ill. Providing consultation services for crippled persons Serial No. 644,248, Nov. 10. Class 100.

National Welding Equipment Company, San Francisco, Calif. Equipment and apparatus used in the handling and administering of medicinal gases, etc. Serial No. 620,618, Nov. 10. Class 44.

Nesco Corporation, doing business under the name and style New England Sales Co., Waterbury, Conn. Windows, doors, screens and metal and wooden awnings. Serial No. 641,321, Nov. 10. Class 12.

Nestle Company, Inc., The, New York, N. Y., and Colorado Springs, Colo. Bouillon cubes. Serial No. 605,673, Nov. 10. Class 46.

New England Sales Co.: *See*—
Nesco Corporation.

New Jersey Zinc Company, The, New York, N. Y. Slab zinc. Serial No. 638,776, Nov. 10. Class 14.

New York Herald Tribune Inc., New York, N. Y. Cartoons or newspaper feature. Serial Nos. 647,085–92, Nov. 10. Class 38.

North American Creameries, Inc., Minneapolis, Minn. Dairy products; margarine and frozen dessert products. Serial No. 636,247, Nov. 10. Class 46.

O P W Corporation, Cincinnati, Ohio. Sight glass flow gages or indicators. Serial No. 630,018, Nov. 10. Class 26.

Ohlsson & Rice Inc., Los Angeles, Calif. Internal combustion engine fuels. Serial No. 647,947, Nov. 10. Class 15.

Ohlsson & Rice Inc., Los Angeles, Calif. Internal combustion engine fuels. Serial No. 647,949, Nov. 10. Class 15.

Overly Manufacturing Company, Greensburg, Pa. Doors. Serial No. 647,126, Nov. 10. Class 12.

Paragon-Revolute Corporation, Rochester, N. Y. Machines for exposing and developing white prints, brown-line prints, etc. Serial No. 637,667, Nov. 10. Class 26.

Paramount Garment Company, Chicago, Ill. Vinyl or other plastic coated fabrics simulating leather. Serial No. 645,254, Nov. 10. Class 50.

Payne Trailer Company, Gardena, Calif. Trailers. Serial No. 649,178, Nov. 10. Class 19.

Peerless Machinery Company, The, Boston, Mass. Eyelet setting machines. Serial No. 646,310, Nov. 10. Class 23.

Philipp Brothers Chemicals, Inc., New York, N. Y. Industrial synthetic soap compositions, skin cleaning compositions. Serial No. 634,483, Nov. 10. Class 52.

Phoenix Fuel Company, Louisville, Ky. Bituminous coal. Serial No. 644,781, Nov. 10. Class 1.

Picture Craft Company: *See*—
Grossman, Ralph E.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Horticultural spray. Serial No. 637,944, Nov. 10. Class 6.

Plast-O-Bright Products: *See*—
Dore, Lucien.

Platt Luggage, Inc., Chicago, Ill. Men's hand luggage, women's hand luggage. Serial No. 647,367, Nov. 10. Class 3.

Pneumafil Corporation, Charlotte, N. C. Automatic electrical controls. Serial No. 632,899, Nov. 10. Class 21.

Pneumatic Scale Corporation, Limited, Quincy, Mass. Weighing machines, combined weighing and filling machines, etc. Serial No. 628,778–9, Nov. 10. Class 26.

Podbielniak, Inc., Chicago, Ill. Indicators. Serial No. 646,311, Nov. 10. Class 26.

Polly Prim Laundries of America, Inc., New York, N. Y. Commercial laundry and dry cleaning services. Serial No. 637,147, Nov. 10. Class 103.

Pope, Marion R., Eagletown, Okla. Tonic. Serial No. 647,316, Nov. 10. Class 18.

Poulsen, A. E., & Company, Los Angeles, Calif. Compounding plants for mixing, grinding, and blending materials. Serial No. 639,833, Nov. 10. Class 23.

Premier Plastics Co.: *See*—
Arliss, Charles.

Prentis Clothes Corp., New York, N. Y. Boys' outerwear and girls' outerwear. Serial No. 638,914, Nov. 10. Class 39

Protex Products Company, Inc., New York, N. Y. Dress bags, suit bags, comforter bags, etc. Serial No. 646,627, Nov. 10. Class 2.

Quinn, Eloise, New York, N. Y. Stocking wash. Serial No. 635,612, Nov. 10. Class 52.

Rapid Electric Company: *See*—
Viola, James A.

Rathgeber Laboratories, New Haven, Conn. Wax polish Serial No. 646,166, Nov. 10. Class 4.

Ratner, Walter, doing business as Rentar, Chicago, Ill. Medicated cream. Serial No. 647,371, Nov. 10. Class 18.

Remington Arms Company, Inc., Bridgeport, Conn. Tools. Serial No. 612,353, Nov. 10. Class 23.

Rentar: *See*—
Ratner, Walter.

Rilling-Dermetics Company, The, New York, N. Y. Cold wave solution. Serial No. 632,798, Nov. 10. Class 51.

Ritzenthaler, John, New York, N. Y. Ironing board covers. Serial No. 644,519, Nov. 10. Class 24

Rival Manufacturing Company, Kansas City, Mo. Cooking apparatus. Serial No. 646,313, Nov. 10. Class 13.

Rivero, Tomas y Hermanos S. L., Cadiz, Spain. Wines. Serial No. 608,771, Nov. 10. Class 47.

Rol-Gard Corp.: *See*—
"Rol-Gard," Inc.

"Rol-Gard," Inc., doing business as Rol-Gard Corp., Fargo, N. Dak. Automatic mercury-operated power cut-off. Serial No. 607,869, Nov. 10. Class 21.

Rosback, F. P., Company, Benton Harbor, Mich. Printers' and bookbinders' machinery. Serial No. 626,960, Nov. 10. Class 23.

Rubinstein, Helena, Inc., New York, N. Y. Toilet soap, face soap, hand soap, etc. Serial No. 614,723, Nov. 10. Class 52.

Rubinstein, Helena, Inc., New York, N. Y. Facial masks used in connection with cosmetic treatments. Serial No. 632,746, Nov. 10. Class 44.

Rubinstein, Helena, Inc., New York, N. Y. Perfume. Serial No. 645,918, Nov. 10. Class 51.

Sandoz Chemical Works, Inc., New York, N. Y. Dyestuffs. Serial No. 635,197, Nov. 10. Class 6.

Schering Corporation, Bloomfield, N. J. Choleocystrographic medium. Serial No. 642,373, Nov. 10. Class 18.

Schieffelin & Co., New York, N. Y. Rum and cola beverage. Serial No. 632,394, Nov. 10. Class 49.

Schwartz, L. N., & Sons, Inc., Philadelphia, Pa. Leather shoes, leather moccasions, and athletic footwear. Serial No 643,727, Nov. 10. Class 39.

Schwob, Theodore H., doing business under the firm name and style Schwob Watch Company, New York, N. Y. Watches, watch cases, and watch movements. Serial No. 642,443, Nov. 10. Class 27

Schwob Watch Company: *See*—
Schwob, Theodore H.

Seamprufe Incorporated, New York, N. Y. Women's apparel. Serial No. 647,814–15, Nov. 10. Class 39.

Service Industries, Philadelphia, Pa. Non-poisonous metal hardening compound. Serial No. 614,574, Nov. 10. Class 6.

Signode Steel Strapping Company, Chicago, Ill. Stretching or tensioning tools, sealing tools, etc. Serial No. 646,327, Nov. 10. Class 23.

Silberman, Benjamin, doing business under the name of Alexandria Shoe Machinery Co., Philadephia, Pa. Machine needles and awls. Serial No. 624,059, Nov. 10. Class 23.

Simoniz Company, Chicago, Ill. Furniture polish. Serial No. 645,078, Nov. 10. Class 4.

Sondra Undergarments Co. Inc., New York, N. Y. Ladies' and girls' undergarments and intimate wear. Serial No. 627,708, Nov. 10. Class 39.

Southeastern Rubber Manufacturing Company, Inc., Atlanta, Ga. Camelback. Serial No. 623,629, Nov. 10. Class 35.

Sta-Dri, Inc., Odenton, Md. Mineral powder compounded for use as a plaster or mortar, etc. Serial No. 643,799, Nov. 10. Class 12.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Embossing and printing machines. Serial No. 643,862, Nov. 10. Class 23.

Steel Products Fabricators: *See*—
Koerber, Ernest F.

Stefan, Helen: *See*—
Stefan, Helen F.

Stefan, Helen F., doing business as Helen Stefan, St. Paul, Minn. Hoods for the head for protecting coiffures, face make-up, etc. Serial No. 629,866, Nov. 10. Class 40.

Stern Brothers, New York, N. Y. Paper bags, baskets, bird baths, etc. Serial No. 639,402, Nov. 10. Class 2.

Stern Brothers, New York, N. Y., Paper bags, baskets, bird baths, etc. Serial No. 639,509, Nov. 10. Class 2.

Stillman Company, The, Aurora, Ill. Medicated douche powder, antiseptic and hygienic jelly, etc. Serial No. 647,377, Nov. 10. Class 18.

Strauss, Levi, & Company, San Francisco, Calif. Men's, women's, and children's jackets and slacks. Serial No. 622,631, Nov. 10. Class 39.

Sturtevant, P. A., Co., Addison, Ill. Valve and clutch spring testers, torque testers, and torque measuring gauges. Serial No. 589,346, Nov. 10. Class 26.

Sunnyside Oil Co., Chicago, Ill. All purpose paint thinner and cleaning solvent. Serial No. 633,226, Nov. 10. Class 52.

Swissair Transport Co., Ltd., New York, N. Y. Adjustable reclining chairs for use on transportation equipment. Serial No. 627,285, Nov. 10. Class 19.

Tampax Incorporated, New York, N. Y. Deodorant powder. Serial No. 610,766, Nov. 10. Class 51.

Tanqueray, Charles, & Co. Limited, London, England. Gin. Serial No. 622,366, Nov. 10. Class 49.

Teal Corporation, Irvington, N. J. Electrical fixtures and fittings. Serial No. 643,195, Nov. 10. Class 21.

Technical Instrument Co.: *See*—
Yonkers, John L.,

Tecnifax Corporation, Holyoke, Mass. Technical facsimile materials. Serial No. 630,227, Nov. 10. Class 26.

Toledo Desk and Fixture Company, The, Maumee, Ohio, assignor to Toledo Desk & Fixture Corporation. Combination sinks and cabinets. Serial No. 618,328, Nov. 10. Class 13.

Toledo Desk & Fixture Corporation, assignee: *See*—
Toledo Desk and Fixture Company, The.

Traveler's Equipment Company, Washington, D. C. Drawing instrument. Serial No. 594,412, Nov. 10. Class 26.

Triangle Finishing Corp., Johnstown, N. Y. Finishing fabrics of others. Serial No. 625,499, Nov. 10. Class 106.

Turbo-Ray, Inc., New Rochelle, N. Y. Radiant base panel heating units. Serial No. 608,723, Nov. 10. Class 34.

Ultra Chemical Works Inc., Paterson, N. J. Synthetic detergents. Serial No. 644,144, Nov. 10. Class 52.

Underwood Corporation, New York, N. Y. Rebuilding, altering, repair and maintenance of business machines. Serial No. 645,084, Nov. 10. Class 103.

United Elastic Corporation, Easthampton, Mass. Narrow elastic webbing. Serial No. 633,279, Nov. 10. Class 42.

United States Plywood Corporation, New York, N. Y. Plywood. Serial No. 645,847, Nov. 10. Class 12.

United States Plywood Corporation, New York, N. Y. Structural and insulating material. Serial No. 645,848, Nov. 10. Class 12.

Universal Form Clamp Co., Chicago, Ill. Form clamps for reinforcing concrete. Serial No. 637,803, Nov. 10. Class 12.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 647,328, Nov. 10. Class 18.

Valliere Drapery and Slipcover Studio, Rochester, N. Y. Slipcover material and upholstering material, and for upholstered furniture. Serial No. 623,927, Nov. 10. Class 32.

Van Horn, Karl R., Memphis, Tenn. Ladies' and men's wrist watches. Serial No. 646,908, Nov. 10. Class 27.

Viola, James A., doing business as Rapid Electric Company, New York, N. Y. Direct current electrical apparatus. Serial No. 644,202, Nov. 10. Class 21.

Virginia-Carolina Chemical Corporation, Richmond, Va. Protein fiber. Serial No. 646,701, Nov. 10. Class 1.

Virginia Welding Supply Company, Charleston, W. Va. Welding equipment. Serial No. 646,702, Nov. 10. Class 26.

Wallace & Tiernan Company, Inc., Belleville, N. J. Apparatus for the measuring and applying of a chemical solution, etc. Serial No. 646,703, Nov. 10. Class 26.

Wasco Flashing Co., Cambridge, Mass. Skylights. Serial Nos. 642,434–5, Nov. 10. Class 12.

Washington Steel Products, Inc., Tacoma, Wash. Vegetable storage bins, fruit storage bins, fruit and vegetable storage bins, etc. Serial No. 614,593, Nov. 10. Class 2.

Waterman Pen Company, Inc., Seymour, Conn. Ball point pens. Serial No. 646,588, Nov. 10. Class 37.

Welch Nurseries, Inc., The, Shenandoah, Iowa. Flower plants. Serial No. 635,208, Nov. 10. Class 1.

Wella Corporation, The, New York, N. Y. Scissors, razors, and shears. Serial No. 608,580, Nov. 10. Class 23.

Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Electric meters and measuring instruments. Serial No. 637,025, Nov. 10. Class 26.

Westwood Pharmaceuticals: *See*—
Foster-Milburn Company.

White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Abrading unit for use in industry. Serial No. 629,405, Nov. 10. Class 23.

Wickston Laboratories, Berkeley, Calif. Protein, wheat germ, and liver concentrate. Serial No. 647,252, Nov. 10. Class 18.

Williamson, T. D., Inc., Tulsa, Okla. Insulating device. Serial No. 636,503, Nov. 10. Class 13.

Wilson, A. L., Chemical Company, Kearny, N. J. Protein digester for albuminous stains. Serial No. 641,408, Nov. 10. Class 52.

Winter, Charlotte D., Paramus, N. J. Jewelry. Serial No. 631,188, Nov. 10. Class 28.

Winter, Charlotte D., Paramus, N. J. Crockery, earthenware of porcelain articles. Serial No. 631,189, Nov. 10. Class 30.

Winter, Charlotte D., Paramus, N. J. Glassware. Serial No. 631,190, Nov. 10. Class 33.

Winthrop-Stearns Inc., New York, N. Y. Decongestant and vasoconstrictor preparation. Serial No. 641,755, Nov. 10. Class 18.

Wisconsin Door Company, Livonia, Mich. Birch flush doors. Serial No. 640,988, Nov. 10. Class 12.

Wollensak Optical Company, Rochester, N. Y. Camera lenses. Serial No. 638,028, Nov. 10. Class 26.

Wood-Treating Corporation, Cleveland, Ohio. Frangible capsules to be inserted in spike holes. Serial No. 640,828, Nov. 10. Class 12.

Xenoteck, Inc., Van Nuys, Calif. Calcium, phosphorus, and vitamin C and D preparation. Serial No. 621,190, Nov. 10. Class 18.

Yonkers, John L., doing business as Technical Instrument Co., Chicago, Ill. Hypodermic needles. Serial No. 645,024, Nov. 10. Class 44.

Zeller-Churgin, Harry, Corp., New York, N. Y. Fabrics. Serial No. 636,398, Nov. 10. Class 42.

Zurn, J. A., Mfg. Co., Erie, Pa. Cleanout fittings for gaining access in cleaning out horizontal and/or vertical piping. Serial No. 624,376, Nov. 10. Class 13.

Zurn, J. A., Mfg. Co., Erie, Pa. Cleanout fittings for gaining access in cleaning out horizontal and/or vertical piping. Serial No. 624,378, Nov. 10. Class 13.

LIST OF REGISTRANTS OF TRADE-MARKS

A & A Manufacturing Company, Milwaukee, Wis. Protective sleeves, boots, and covers, which goods are sewn and otherwise fabricated from a neoprene base material, etc. 582,258, Nov. 10; Serial No. 635,866, published Aug. 4, 1953. Class 35.

Abel & Bach Inc., Milwaukee, Wis. Hand luggage. 582,260, Nov. 10; Serial No. 636,106, published Aug. 4, 1953. Class 3.

Absentee Automatic Water Control Company: *See*—
Hendry, David W.

Adams, Frederick C., doing business under the name of Wild Acres Turkey Farm, Steep Falls, Maine. Eviscerated oven-ready stuffed and unstuffed turkeys. 582,365, Nov. 10; Serial No. 643,258. Class 46.

Advertising Publications, Incorporated, Chicago, Ill. Periodical publications. 582,347, Nov. 10; Serial No. 643,527, published Aug. 11, 1953. Class 38.

Adweyt Company, Chicago, Ill. Oral lipid emulsion. 582,337, Nov. 10; Serial No. 642,925, published Aug. 11, 1953. Class 18.

Affiliated Retailers, Inc., New York, N. Y. Bathroom scales. 582,182, Nov. 10; Serial No. 614,680, published Aug. 11, 1953. Class 26.

Air Reduction Company, Incorporated, New York, N. Y. Electric control unit. 582,205, Nov. 10; Serial No. 625,385, published July 14, 1953. Class 21.

Ajax Metal Company, The, Philadelphia, Pa. Electric furnaces. 416,392, Sept. 11, 1945. Amended. O. G. Nov. 10. Class 21.

Ambory Corporation, The, Hazel Park, Mich. Electrical heating elements and electrical immersion water heaters. 582,275, Nov. 10; Serial No. 638,513, published July 14, 1953. Class 21.

American Pad & Textile Company, The, Greenfield, Ohio. Seat cushions, chair cushions, camping and sleeping equipment, etc. 309,727, renewed Jan. 30, 1954. O. G. Nov. 10. Class 32.

American Paper Goods Company, The, Montclair, N. J., and Kensington, Berlin, Conn., to The American Paper Goods Company, Kensington, Conn. Paper bags and drinking cups. 307,540, renewed Oct. 31, 1953. O. G. Nov. 10. Class 2.

American Tile and Rubber Company, Trenton, N. J. Rubber tile flooring. 385,013, Feb. 11, 1941. Republished Nov. 10. Class 12.

American Vacuum Company: *See*—
Persons, Ralph H.

Ames, Butler, Lowell, Mass. Outer and under shirts. 582,231, Nov. 10; Serial No. 631,775, published Aug. 4, 1953. Class 39.

Ampco Twist Drill Company, Jackson, Mich., by Greenfield Tap and Die Corporation, Greenfield, Mass. Twist drills, reamers, milling cutters, etc. 419,078, Feb. 5, 1946. Republished Nov. 10. Class 23.

Ankiam, William E., Chicago, Ill., assignor to Cal-Acetyl Company, to Sterling Drug Inc., New York, N. Y. Acetyl salicylic acid combined with calcium salts. 305,993, renewed Aug. 29, 1953. O. G. Nov. 10. Class 18.

Aristocrat Leather Products, Inc., New York, N. Y. Wallets, billfolds, purses, etc. 582,286, Nov. 10; Serial No. 639,547, published Aug. 4, 1953. Class 3.

Armsby, J. K., Co., The, Chicago, Ill., and San Francisco, Calif., to California Packing Corporation, San Francisco, Calif. Canned fruits, dried fruits, and raisins. 93,410, re-renewed Sept. 16, 1953. O. G. Nov. 10. Class 46.

Armsby, J. K., Co., The, Chicago, Ill., and San Francisco, Calif., to California Packing Corporation, San Francisco, Calif. Canned fruits. 93,806, re-renewed Oct. 21, 1953. O. G. Nov. 10. Class 46.

Armsby, J. K., Company, The, to California Packing Corporation, San Francisco, Calif. Canned fruits, dried fruits, and raisins. 94,581, re-renewed Dec. 23, 1953. O. G. Nov. 10. Class 46.

Armsby, J. K., Co., The, to California Packing Corporation, San Francisco, Calif. Dried fruits. 94,858, re-renewed Jan. 13, 1954. O. G. Nov. 10. Class 46.

Armstrong Company, The, Chicago, Ill. Plastic caulking and sealing composition. 582,364, Nov. 10; Serial No. 641,116. Class 12.

Army and Navy Journal, Inc., Washington, D. C. Periodical. 582,164, Nov. 10; Serial No. 599,481, published Aug. 4, 1953. Class 38.

Atlas Supply Company, Newark, N. J. Rubber tires. 582,355, Nov. 10; Serial No. 645,945, published Aug. 11, 1953. Class 35.

Barclay, Robert, & Company Limited, Manchester, England. Piece goods. 582,296, Nov. 10; Serial No. 640,142, published Aug. 4, 1953. Class 42.

Barrell, Wm. L., Co. Inc., New York, N. Y. Cotton piece goods. 308,261, renewed Nov. 28, 1953. O. G. Nov. 10. Class 42.

Barwick, E. T., Mills: *See*—
Barwick, Eugene T.

Barwick, Eugene T., doing business as E. T. Barwick Mills, Chamblee, Ga. Cotton rugs and carpeting. 582,338, Nov. 10; Serial No. 642,930, published Aug. 4, 1953. Class 42.

Bedford Shirt Corp., New York, N. Y. Men's and boys' sport shirts, sport jackets, and sport slacks. 582,305, Nov. 10; Serial No. 641,001, published July 21, 1953. Class 39.

Beepers Novelty Corp., New York, N. Y. Toy. 582,363, Nov. 10; Serial No. 632,645. Class 22.

Bendix Aviation Corporation: *See*—
Rich-Roth Laboratories.

Bert Mills Corporation, The, Lombard, Ill. Coffee vending machine. 582,169, Nov. 10; Serial No. 605,250, published July 7, 1953. Class 23.

Better Brands Food Products, New York, N. Y. Food emulsifier. 582,297, Nov. 10; Serial No. 640,323, published Aug. 11, 1953. Class 46.

Blaich, Adolph, Incorporated, San Francisco, Calif. Athletic clothing, hunting and fishing clothing. 582,270, Nov. 10; Serial No. 638,059, published July 21, 1953. Class 39.

Bonanno, John, Flushing, N. Y. Partially printed marking paper. 582,366, Nov. 10; Serial No. 643,274. Class 37.

Borg-Warner Corporation, Chicago, Ill. Earth cutting and pulverizing discs. 582,281, Nov. 10; Serial No. 639,011, published June 9, 1953. Class 23.

Boston Woven Hose and Rubber Company, Cambridge, Mass. Garden hose. 582,354, Nov. 10; Serial No. 645,773, published Aug. 11, 1953. Class 35.

Bourjois, Inc.: *See*—
Chanel, Inc.

Bourjois, Inc., to Barbara Gould, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 309,501, renewed Jan. 16, 1954. O. G. Nov. 10. Class 51.

Brand & Oppenheimer Incorporated, New York, N. Y. Textile fabrics. 582,229, Nov. 10; Serial No. 630,983, published Aug. 4, 1953. Class 42.

Brewster, E. Franklin, to Veteran Foods Sales Co., Rochester, N. Y. Canned vegetables, canned pork and beans, and canned salmon. 91,845, re-renewed June 3, 1953. O. G. Nov. 10. Class 46.

Brown, David, & Son Limited, Donaghmore, Ireland. Soap. 58,438, Dec. 18, 1906. Corrected. O. G. Nov. 10. Class 52. (Formerly Class 4.)

Burlington Mills Corporation, Greensboro, N. C. Ribbons for use in tying and ornamenting packages, etc. 582,257, Nov. 10; Serial No. 635,398, published July 14, 1953. Class 7.

Burrell Corporation, Pittsburgh, Pa. Catalyst heater for use with laboratory research apparatus. 582,168, Nov. 10; Serial No. 603,473, published Aug. 11, 1953. Class 26.

Butler Brothers, Chicago, Ill. Inside and outside ready-mixed house paint and varnish, polish and wax. 582,148, Nov. 10; Serial No. 567,493, published July 28, 1953. Class 4.

Cal-Acetyl Company, assignee: *See*—
Ankiam, William E.

California Marine Curing & Packing Co., Terminal Island, Calif. Canned tuna fish. 582,211, Nov. 10; Serial No. 626,558, published July 14, 1953. Class 46.

California Packing Corporation: *See*—
Armsby, J. K., Co., The.

California Packing Corporation: *See*—
Armsby, J. K., Company, The.

Caltex of California, Inc.: *See*—
Caltex Sportswear, Inc.

Caltex Sportswear, Inc., to Caltex of California, Inc., Los Angeles, Calif. Women's knitted sportwear. 306,400, renewed Sept. 19, 1953. O. G. Nov. 10. Class 39.

Calvital Company, Inc., Mount Vernon, N. Y. Medicinal preparation. 582,152, Nov. 10; Serial No. 582,815, published Dec. 5, 1950. Class 18.

Camillus Cutlery Company, Camillus, N. Y. Pocket knives. 582,282, Nov. 10; Serial No. 639,014, published June 9, 1953. Class 23.

Carmel Oil Co., New York, by Carmel Oil Co. Inc., Bronx, N. Y. Edible white oil. 300,404, Jan. 17, 1933. Republished Nov. 10. Class 46.

Carmel Oil Co. Inc.: *See*—
Carmel Oil Co.

Carwood Manufacturing Company, Winder, Ga. Men's and boys' work pants, work shirts, overalls, etc. 582,226, Nov. 10; Serial No. 630,577, published Aug. 4, 1953. Class 39.

Cater Frock Company, New Braunfels, Tex. Girls' dresses, suits, sun suits, etc. 443,998, May 23, 1950. Republished Nov. 10. Class 39.

Champ Products Corporation, Union City, Ind. Ladies' hand bags and pocketbooks. 582,300, Nov. 10; Serial No. 640,498, published Aug. 4, 1953. Class 3.

Chanel, Inc., to Bourjois, Inc., New York, N. Y. Perfume. 309,503, renewed Jan. 16, 1954. O. G. Nov. 10. Class 51.

Charleston Electrical Supply Company, Charleston, W. Va. Printed publications. 582,344, Nov. 10; Serial No. 643,289, published Aug. 4, 1953. Class 38.

Chemische Werke Albert, Amoneburg, Germany. Therapeutic products. 582,219, Nov. 10; Serial No. 628,919, published Aug. 4, 1953. Class 18.

Chevette, Inc., by Circe Foundations, Inc., New York, N. Y. Panties, panty girdles, girdles, etc. 377,758, May 14, 1940. Republished Nov. 10. Class 39.

Chicago Printed String Company: *See*—
Chicago Printed String Co.

Chicago Printed String Co., to Chicago Printed String Company, Chicago, Ill. Cordage. 305,447, renewed Aug. 15, 1953. O. G. Nov. 10. Class 7.

Chicopee Manufacturing Corporation, New Brunswick, N. J. Textile diapers. 385,620, Mar. 11, 1941. Amended. O. G. Nov. 10. Class 39.

Circe Foundations, Inc.: *See*—
Chevette, Inc.

Circuitron, Inc., Hoboken, N. J. Printed electrical and electronic circuits. 582,341, Nov. 10; Serial No. 643,075, published Aug. 11, 1953. Class 21.

City Stores Company, assignee: *See*—
Landsburgh & Bro.

Clicquot Club Company, Millis, Mass. Carbonated non-alcoholic, noncereal, maltless beverages. 309,223, renewed Jan. 9, 1954. O. G. Nov. 10. Class 45.

Cocanower, Clair D., Phoenix, Ariz. Playing cards. 582,276, Nov. 10; Serial No. 638,520, published Aug. 11, 1953. Class 22.

Cohen, Benjamin, New York, N. Y. Nurses' and maids' uniforms, caps, capes, etc. 335,906, June 16, 1936. Republished Nov. 10. Class 39.

Collectron (Proprietary) Limited, Johannesburg, Union of South Africa. Electrostatic dust precipitating equipment. 582,265, Nov. 10; Serial No. 636,877, published July 21, 1953. Class 21.

Colorado Milling & Elevator Co., The, doing business under the style names of The Hungarian Flour Mills and The Denver Flour Mills Co., Denver, Colo., and elsewhere. Wheat flour. 582,146, Nov. 10; Serial No. 552,123, published Aug. 4, 1953. Class 46.

Columbia Engineering Service Co.: *See*—
Stem, Donald E.

Comly-Flanigen Co.: *See*—
Comly Flanigen Company.

Comly Flanigen Company to Comly-Flanigen Co., Philadelphia, Pa. Canned fruit, canned vegetables, olive oil, etc. 305,238, renewed Aug. 8, 1953. O. G. Nov. 10. Class 46.

Continental Can Company Inc.: *See*—
Owens-Illinois Can Company.

Continental Motors Corporation, Muskegon, Mich. Gearing and transmissions and parts thereof. 582,210, Nov. 10; Serial No. 626,152, published June 9, 1953. Class 23.

Cooper, Joseph B., doing business under the name and style of Travel Auto Bag Co., New York, N. Y. Traveling bags. 582,361, Nov. 10; Serial No. 624,447. Class 3.

Crown Chemical Corporation, Providence, R. I. Chemical water repellent. 582,248, Nov. 10; Serial No. 634,075, published Aug. 11, 1953. Class 6.

Curtis Manufacturing Company, St. Louis, Mo. Automobile washing outfits, rotating automobile lifts, single post and two post automobile lifts, etc. 582,247, Nov. 10; Serial No. 633,970, published June 9, 1953. Class 23.

Dana Perfumes, Inc., Chicago, assignor to N. J. Phelps, Palatine, Ill. Lipstick. 582,356, Nov. 10; Serial No. 612,963. Class 51.

Daralaun Corporation: *See*—
Wilson Brothers.

Daubmeyer, Dewey C., doing business as Riviera Lamps, Fort Lauderdale, Fla. Electric lamps. 582,279, Nov. 10; Serial No. 638,901, published July 14, 1953. Class 21.

Day's Tailor-D Clothing, Inc., doing business as WPL 7997, Tacoma, Wash. Men's slacks. 582,310, Nov. 10; Serial No. 641,277, published Aug. 4, 1953. Class 39.

Dell Products Corporation, East Orange, N. J. Concentrated emulsion of citrous flavors such as lemon, lime, and orange for flavoring baked goods, etc. 415,214, July 31, 1945. Republished Nov. 10. Class 46.

Dell Products Corporation, East Orange, N. J. Fruit flavored non-alcoholic sirups, concentrates, etc. 417,449, Oct. 30, 1945. Republished Nov. 10. Class 45.

Denver Flour Mills Co., The: *See*—
Colorado Milling & Elevator Co., The.

Dexter Press, Inc., West Nyack, N. Y. Colored pictorial post cards and colored pictures. 582,317, Nov. 10; Serial No. 641,672, published Aug. 4, 1953. Class 38.

Diamond Hosiery Corp., High Point, N. C., and New York, N. Y. Women's and girls' hosiery. 582,204, Nov. 10; Serial No. 624,634, published July 28, 1953. Class 39.

Diamond, Jack, Brooklyn, N. Y. Men's and boys' wearing apparel. 389,392, Aug. 5, 1941. Republished Nov. 10. Class 39.

Dick, A. B., Company, Niles, Ill. Materials used in lithographic printing, namely, inks, etc. 582,176, Nov. 10, Serial No. 610,422, published July 28, 1953. Class 11.

Dickey Manufacturing Co., The, Toledo, Ohio. Awnings, banners, flags, etc. 582,193, Nov. 10; Serial No. 621,547, published July 14, 1953. Class 50.

Dickey Manufacturing Co., The, Toledo, Ohio. Awnings, banners, flags, etc. 582,194, Nov. 10; Serial No. 621,548, published July 21, 1953. Class 50.

Dixie Cup Company: *See*—
Vortex Cup Company.

Dow Chemical Company, The, Midland, Mich. Insecticide. 582,155, Nov. 10; Serial No. 591,226, published Nov. 7, 1950. Class 6.

Doyle Packing Company, Los Angeles, Calif. Canned cat food. 582,367, Nov. 10; Serial No. 643,411. Class 46.

E Z Paintr Corporation, assignee: *See*—
E-Z Paintr Corporation.

E-Z Paintr Corporation, Butler, assignor to E Z Paintr Corporation, Milwaukee, Wis. Paint rollers and paint roller covers. 582,171, Nov. 10; Serial No. 607,492, published Aug. 4, 1953. Class 29.

Easy-Eye Lighting, Inc., doing business as Fluorescent Fabricators, St Louis, Mo. Electrical lighting fixtures. 582,254, Nov. 10; Serial No. 634,683, published July 28, 1953. Class 21.

Ecker, Will & Co., St. Louis, Mo. Printed calling cards. 582,252, Nov. 10; Serial No. 634,637, published Aug. 4, 1953. Class 38.

Ehniger Mills, Inc., New York, N. Y. Textile fabrics. 582,225, Nov. 10; Serial No. 630,317, published Aug. 4, 1953. Class 42.

Engineering Manufacturing Company, Sheboygan, Wis. Drafting room equipment. 582,233, Nov. 10; Serial No. 631,854, published Aug. 4, 1953. Class 26.

Essex Wire Corporation, Detroit, Mich. Electrical plugs. 582,167, Nov. 10; Serial No. 601,204, published July 14, 1953. Class 21.

Ettinger Manufacturing Company, Chicago, Ill. Electric sleeping pads. 582,173, Nov. 10; Serial No. 608,304, published Oct. 9, 1951. Class 21.

Eureka Williams Corporation, Bloomington, Ill. Electric vacuum cleaners. 582,298, Nov. 10; Serial No. 640,447, published July 28, 1953. Class 21.

Expanded Metal Company Limited, The, to The Expanded Metal Company Limited, London, England. Expanded metal. 92,204, re-renewed June 24, 1953. O. G. Nov. 10. Class 14.

Federal Tool Engineering, Inc., Newark, N. J. Condenser power units and electric welding apparatus. 582,172, Nov. 10; Serial No. 607,543, published Aug. 4, 1953. Class 21.

Federated Department Stores, Inc., Cincinnati, Ohio. Men's suits and coats. 582,322, Nov. 10; Serial No. 642,071, published July 28, 1953. Class 39.

Ferro Electric Products Inc., Kirkland, assignor, by mesne assignments, to Skysweeper, Inc., Johnsburg, Ill. Television antennae. 582,201, Nov. 10; Serial No. 623,597, published July 14, 1953. Class 21.

Fitzpatrick, Milton J., doing business under the fictitious firm name and style of Seal Plate Company, Hollywood, Calif. Automobile polish. 582,362, Nov. 10; Serial No. 629,563. Class 4.

Flint, Eaton and Company, Decatur, Ill. Therapeutic iron compound. 582,306, Nov. 10; Serial No. 641,036, published July 21, 1953. Class 18.

Fluorescent Fabricators: *See*—
Easy-Eye Lighting, Inc.

Forrest Knitting Mills, also trading as Highland Knitting Mills, Philadelphia, Pa. Men's, women's, boys', and girls' bathing suits, bathing trunks, shirts, etc. 582,157, Nov. 10; Serial No. 592,561, published July 21, 1953. Class 39.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 582,331, Nov. 10; Serial No. 642,539, published Aug. 4, 1953. Class 42.

Fox River Paper Corporation, Appleton, Wis. Bond and ledger paper. 582,147, Nov. 10; Serial No. 565,766, published Nov. 13, 1951. Class 37.

Franklin & Lasoff, Inc., Boston, Mass. Men's and boys' caps and hats. 582,299, Nov. 10; Serial No. 640,451, published Aug. 4, 1953. Class 39.

Freeman Clothing Company, Chicago, Ill. Men's clothing. 582,215, Nov. 10; Serial No. 627,430, published July 14, 1953. Class 39.

Freeman, Frederick R., doing business as Freeman Publishing Co., Kansas City, Mo. Educational game. 582,349, Nov. 10; Serial No. 644,026, published Aug. 4, 1953. Class 22.

Freeman Publishing Co.: *See*—
Freeman, Frederick R.

French Sardine Company of California, The, Terminal Island, Calif. Canned tuna fish. 582,212, Nov. 10; Serial No. 626,565, published Apr. 21, 1953. Class 46.

G. G. G. Corporation, The: *See*—
Workshop Associates, Incorporated, The.

Gabriel Company, The, assignee: *See*—
Workshop Associates, Incorporated, The.

Gabriel Company, The, Cleveland, Ohio. Television antenna. 582,316, Nov. 10; Serial No. 641,616, published July 21, 1953. Class 21.

Geigy Company, Inc., New York, N. Y. Chemical preparation. 582,352, Nov. 10; Serial No. 645,140, published Aug. 25, 1953. Class 6.

General Electric Company, Schenectady, N. Y. Electrical sectional switchboards and the sections therefor. 582,198, Nov. 10; Serial No. 622,331, published Aug. 11, 1953. Class 21.

General Precision Laboratory Incorporated, Pleasantville, N. Y. Electrical generators, television cameras, television camera control units, etc. 582,259, Nov. 10; Serial No. 635,960, published July 14, 1953. Class 21.

Globe-Union Inc., Milwaukee, Wis. Electronic filter and by-pass units. 582,272, Nov. 10; Serial No. 638,300, published July 14, 1953. Class 21.

Goldberg, Herman R., Rochester, N. Y. Apparatus to teach speach to deaf and hard of hearing students. 582,165, Nov. 10; Serial No. 600,662, published Mar. 24, 1953. Class 21.

Gold Mark Hosiery Co., Inc.: *See*—
Reingold Hosiery Co.

Goodall-Sanford, Inc., Sanford, Maine. Piece goods. 582,287, Nov. 10; Serial No. 639,562, published Aug. 4, 1953. Class 42.

Gospel Trumpet Company, Anderson, Ind. Greeting cards. 582,251, Nov. 10; Serial No. 634,590, published Aug. 4, 1953. Class 38.

Gould, Barbara, Inc.: *See*—
Bourjois, Inc.

Gould-National Batteries, Inc., St. Paul, Minn. Separators for storage batteries. 582,242, Nov. 10; Serial No. 632,783, published July 28, 1953. Class 21.

Grandma Moses Properties, Inc., New York, N. Y. Fabrics-in-the-piece. 582,312, Nov. 10; Serial No. 641,447, published Aug. 4, 1953. Class 42.

Greenfield Tap and Die Corporation: *See*—
Ampco Twist Drill Company.

Hampshire Paper Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Writing and printing paper. 291,297, Feb. 9, 1932. Republished Nov. 10. Class 37.

Hancock Oil Company: *See*—
Hancock Oil Company of California.

Hancock Oil Company of California, to Hancock Oil Company, Long Beach, Calif. Gasoline. 303,972–3, renewed June 13, 1953. O. G. Nov. 10. Class 15.

Hausman, M., & Sons, Inc., New York, N. Y. Piece goods. 582,350, Nov. 10; Serial No. 644,113, published Aug. 4, 1953. Class 42.

Hawaiian Canneries Company, Limited, Kapaa, Hawaii. Non-alcoholic, maltless fruit juice. 321,595, Feb. 5, 1935. Republished Nov. 10. Class 45.

Hawley Products Company, St. Charles, Ill. Fibrous molded caps. 582,158, Nov. 10; Serial No. 593,349, published Aug. 4, 1953. Class 39.

Hawthorne Watch Company, San Francisco, Calif. Watches. 582,359, Nov. 10; Serial No. 630,328. Class 27.

Hendry, David W., doing business under the fictitious name and style of Absentee Automatic Water Control Company, Stockton, Calif. Electric time switch units. 582,170, Nov. 10; Serial No. 605,306, published Aug. 4, 1953. Class 26.

Heyden Chemical Corporation, New York, N. Y. Antibiotic mixtures. 582,332, Nov. 10; Serial No. 642,638, published Aug. 11, 1953. Class 18.

Hickok Manufacturing Co. Inc., Rochester, N. Y. Braces. 582,145, Nov. 10; Serial No. 549,251, published July 14, 1953. Class 39.

Highland Knitting Mills: *See*—
Forrest Knitting Mills.

Hirschman-Pohle Company, Inc.: *See*—
Hirschman, W. F., Inc.

Hirschman, W. F., Inc., Buffalo, by Hirschman-Pohle Company, Inc., Le Roy, N. Y. Ventilators. 154,053, Apr. 4, 1922. Republished Nov. 10. Class 34.

Horne, J. Leslie, Oklahoma City, Okla. Photographs, reprints of photographs and pictures, and the like. 582,313, Nov. 10; Serial No. 641,508, published Aug. 4, 1953. Class 38.

Hub Vacuum Stores: *See*—
Kahn, Rudolph.

Hudson, H. D., Manufacturing Company: *See*—
Hudson Manufacturing Company, The.
Hudson Mfg. Company.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Hog waterers. 398,261, Oct. 20, 1942. Republished Nov. 10. Class 50.

Hudson Manufacturing Company, The, Minneapolis, Minn., by H. D. Hudson Manufacturing Company, Chicago, Ill. Sprayers and parts thereof. 179,965, Feb. 19, 1924. Republished Nov. 10. Class 23.

Hudson Manufacturing Company, The, Minneapolis, Minn., by H. D. Hudson Manufacturing Company, Chicago, Ill. Sprayers and parts thereof. 181,403, Mar. 18, 1924. Republished Nov. 10. Class 23.

Hudson Manufacturing Company, The, Minneapolis, Minn., by H. D. Hudson Manufacturing Company, Chicago, Ill. Portable and hand-operated sprayers and parts thereof. 200,461, June 30, 1925. Republished Nov. 10. Class 23.

Hudson Mfg. Company, Minneapolis, Minn., by H. D. Hudson Manufacturing Company, Chicago, Ill. Portable and hand-operated sprayers and parts thereof. 218,858, Oct. 5, 1926. Republished Nov. 10. Class 23.

Hudson Mfg. Company, Minneapolis, Minn., by H. D. Hudson Manufacturing Company, Chicago, Ill. Portable and hand-operated sprayers and parts thereof. 219,937, Oct. 26, 1926. Republished Nov. 10. Class 23.

Hungarian Flour Mills, The: *See*—
Colorado Milling & Elevator Co., The.

I-T-E Circuit Breaker Company, assignee: *See*—
Railway & Industrial Engineering Co.

Industrial Condenser Corporation, Chicago, Ill. Electrical condensers or capacitors. 582,192, Nov. 10; Serial No. 621,065, published Aug. 11, 1953. Class 21.

Industrial Electrical Works: *See*—
Stahmer, Bernhardt.

Industrial Instrument Corp., Odessa, Tex. Pressure, recording, and indicating gauges, controllers and meters and parts thereof. 582,234, Nov. 10; Serial No. 632,032, published Aug. 11, 1953. Class 26.

Industrial Rayon Corporation, Cleveland, Ohio. Rayon piece goods. 305,226, renewed Aug. 8, 1953. O. G. Nov. 10. Class 42.

Infilco Incorporated, Tucson, Ariz. Gas diffusers. 582,244, Nov. 10; Serial No. 633,108, published June 9, 1953. Class 23.

Installment Retailing, Inc., New York, N. Y. Magazines. 582,267, Nov. 10; Serial No. 637,379, published Aug. 4, 1953. Class 38.

Interstate Bakeries Corporation, Kansas City, Mo., doing business as Schulze Baking Company, Chicago, Ill., Weber Baking Co., Los Angeles, Calif., Mrs. Karl's Bakeries, Inc., Milwaukee, Wis., and O'Rourke Baking Co., Buffalo, N. Y. Bread. 582,221, Nov. 10; Serial No. 629,303, published Aug. 4, 1953. Class 46.

Investment Casting Co., The: *See*—
Levine, Joseph.

Ionics, Inc., San Francisco, Calif. Electrical apparatus. 582,196–7, Nov. 10; Serial Nos. 622,213–14, published Aug. 11, 1953. Class 21.

Ionics, Inc., San Francisco, Calif. Electrical apparatus and electrical units. 582,235, Nov. 10; Serial No. 632,033, published Aug. 11, 1953. Class 21.

Jackson Industries, Inc., Chicago, Ill. Video receivers, radio receiving apparatus, electric phonograph apparatus, etc. 582,159, Nov. 10; Serial No. 594,841, published July 21, 1953. Class 21.

Jacobson Machine Works, Minneapolis, Minn. Beater blade. 582,214, Nov. 10; Serial No. 627,067, published June 9, 1953. Class 23.

Johnnor Company, The, Linden, N. J. Men's jackets and sport jackets. 582,318, Nov. 10; Serial No. 641,682, published July 28, 1953. Class 39.

Joy Manufacturing Company, Pittsburgh, Pa. Electric lighting assemblies. 582,186, Nov. 10; Serial No. 617,253, published Aug. 11, 1953. Class 21.

K. C. Boyswear Mfg. Co., Kansas City, Mo. Boys' outer clothing. 582,289, Nov. 10; Serial No. 639,688, published Aug. 4, 1953. Class 39.

Kahn, Rudolph, doing business as Hub Vacuum Stores, New York, N. Y. Electric domestic vacuum cleaners. 582,357, Nov. 10; Serial No. 615,493. Class 21.

Karl's, Mrs., Bakeries, Inc.: *See*—
Interstate Bakeries Corporation.

Katz, Jacobson & Paris, Inc., New York, N. Y. Textile fabrics. 582,346, Nov. 10; Serial No. 643,427, published Aug. 11, 1953. Class 42.

Kaye-Halbert Corporation, Culver City, Calif. Television receiving sets. 582,280, Nov. 10; Serial No. 638,958, published July 14, 1953. Class 21.

Keelavite Rotary Pumps & Motors Limited, Allesley, Coventry, England. Hydraulic pumps, motors and rams and parts thereof, etc. 582,183, Nov. 10; Serial No. 616,233, published June 30, 1953. Class 23.

Kemberling, Lottie, Dutch Pantry, Monroe Township, Snyder County, Pa. Potato salad, macaroni salad, vegetable salad, etc. 582,150, Nov. 10; Serial No. 580,247, published June 30, 1953. Class 46.

Kerfoot, Thos., & Co., Ashton-Under-Lyne, by Thomas Kerfoot & Co., Limited, Bardsley, England. Perfumed lozenges. 37,298, Nov. 12, 1901. Republished Nov. 10. Class 46.

Kerfoot, Thomas, & Co., Limited: *See*—
Kerfoot, Thos., & Co.

Keuffel & Esser Company, Hoboken, N. J. Sensitized photographic papers and cloths. 582,329, Nov. 10; Serial No. 642,478, published Aug. 4, 1953. Class 26.

Keystone Steel & Wire Company, Peoria, Ill. Metallic fence posts. 308,004, renewed Nov. 14, 1953. O. G. Nov. 10. Class 13.

King Research, Inc., Brooklyn, N. Y. Disinfectant and fungicide. 582,345, Nov. 10; Serial No. 643,340, published Aug. 4, 1953. Class 6.

Kirkwood Industries, Inc., Los Angeles, Calif. Electric lighting fixtures. 582,239, Nov. 10; Serial No. 632,432, published Aug. 4, 1953. Class 21.

Knox Company, The, Kansas City, Mo., to The Knox Company, Los Angeles, Calif. Laxative and diuretic medicinal tea. 305,358, renewed Aug. 15, 1953. O. G. Nov. 10. Class 18.

Ladd Hosiery Mills, Inc., Reading, Pa. Ladies' hosiery. 582,324, Nov. 10; Serial No. 642,231, published Aug. 11, 1953. Class 39.

Lansburgh & Bro., Washington, D. C., assignor to City Stores Company. Men's and boys' overcoats, coats, raincoats, etc. 582,301, Nov. 10; Serial No. 640,372, published Aug. 4, 1953. Class 39.

La Pointe-Plascomold Corporation, The, Windsor Locks, Conn. Antennas. 582,208, Nov. 10; Serial No. 625,535, published July 14, 1953. Class 21.

Lazarus, F. & R., & Co., The, Columbus, Ohio. Men's and women's hosiery. 90,645, Mar. 11, 1913. Amended. O. G. Nov. 10. Class 39.

Leeds Associates Inc., New York, N. Y. Wool fabrics. 582,342, Nov. 10; Serial No. 643,105, published Aug. 4, 1953. Class 42.

Leeds and Northrup Company, Philadelphia, Pa. Electrical analyzing apparatus for polarographic analysis. 582,330, Nov. 10; Serial No. 642,480, published Aug. 4, 1953. Class 26.

Leitz, Ernst, G. m. b. H., Wetzlar, Germany. Measuring microscopes, comparison microscopes, toolmakers' microscopes, etc. 582,200, Nov. 10; Serial No. 623,574, published Aug. 4, 1953. Class 26.

Les Laboratoires Albert Rolland, Société Anonyme, Paris, France. Medicine in ampule form for physical or mental depression, etc. 582,307, Nov. 10; Serial No. 641,062, published July 21, 1953. Class 18.

Les Laboratoires Albert Rolland, Société Anonyme, Paris, France. Sedative. 582,308, Nov. 10; Serial No. 641,063, published July 21, 1953. Class 18.

Levine, Joseph, trading and doing business as The Investment Casting Co., Newark, N. J. Ferrous and non-ferrous castings. 582,253, Nov. 10; Serial No. 634,647, published May 12, 1953. Class 14.

Lincoln Fabrics Co. Inc., New York, N. Y. Textile fabrics. 582,327, Nov. 10; Serial No. 642,360, published Aug. 4, 1953. Class 42.

Lloyd, E. E., Paper Company, Chicago, Ill. Writing paper. 304,765, July 18, 1933. Republished Nov. 10. Class 37.

MacLachlan Hats, Incorporated, Norwalk, Conn. Men's fur felt hats. 582,174, Nov. 10; Serial No. 608,425, published Aug. 11, 1953. Class 39.

Mallory Electric Corporation, Detroit, Mich. Ignition coils and ignition distributors. 582,309, Nov. 10; Serial No. 641,193, published July 14, 1953. Class 21.

Marin, Francisco C. T., Valencia, Spain. Sweet capsicum, fresh tomatoes, canned tomato puree, etc. 582,156, Nov. 10; Serial No. 591,828, published July 14, 1953. Class 46.

Markel, L. Frank, & Sons, Norristown, Pa. Extruded plastic tubings, used as electrical insulation. 582,151, Nov. 10; Serial No. 581,199, published July 28, 1953. Class 21.

Maspeth Telephone & Radio Corporation, Brooklyn, N. Y. Telephone, telegraph, and teletype apparatus. 582,269, Nov. 10; Serial No. 637,661, published July 14, 1953. Class 21.

Mayer, Jacob, Easton, Pa. Men's and boys' hats, suits, sport coats, etc. 582,262, Nov. 10; Serial No. 636,532, published July 21, 1953. Class 39.

McGraw Electric Company, assignee: *See*—
Pennsylvania Transformer Company.

Merck & Co., Inc., Rahway, N. J. Vitamins. 582,261, Nov. 10; Serial No. 636,139, published July 21, 1953. Class 18.

Millen, James, Manufacturing Company, Inc., Malden, Mass. Radio receivers; radio receiver accessories, radio transmitters and radio transmitter accessories. 582,178, Nov. 10; Serial No. 611,034, published Aug. 11, 1953. Class 21.

Munsingwear, Inc., Minneapolis, Minn. Women's hosiery. 582,325, Nov. 10; Serial No. 642,296, published Aug. 11, 1953. Class 39.

National Poultry Equipment Company, Seattle, Wash. Electrically driven egg cleaners, and egg candling lights. 582,163, Nov. 10; Serial No. 599,384, published July 28, 1953. Class 21.

National Rubber Machinery Company, Akron, Ohio. Vulcanizing machines. 582,271, Nov. 10; Serial No. 638,153, published June 9, 1953. Class 23.

National Stationery and Office Equipment Association, Washington, D. C. Furnishing to its members information relative to governmental laws and regulations, etc. 582,369, Nov. 10; Serial No. 630,851. Class 100.

Nelson, Jimmy, Enterprises, Inc., Chicago, Ill. Ventriloquist dummies. 582,284–5, Nov. 10; Serial Nos. 639,436–7, published Aug. 11, 1953. Class 22.

Newport Finishing Corporation, Fall River, Mass. Metal insulated lining fabric. 582,319, Nov. 10; Serial No. 641,792, published Aug. 4, 1953. Class 42.

New York Herald Tribune Inc., New York, N. Y. Column heading. 582,348, Nov. 10; Serial No. 643,603, published Aug. 11, 1953. Class 38.

Nuclear Products Company, Costa Mesa, Calif. Probes and brushes with ionizing means for causing the dissipation of static electric charges. 582,209, Nov. 10; Serial No. 625,862, published July 28, 1953. Class 21.

Nu-Grain Corporation, Chicago, Ill., successor to Sol Taplin. Refinishing and regraining furniture. 582,368, Nov. 10; Serial No. 583,716. Class 103.

Ohmite Manufacturing Company, Chicago, Ill. Electrical circuit control elements. 582,206, Nov. 10; Serial No. 625,434, published July 14, 1953. Class 21.

O'Rourke Baking Co.: *See*—
Interstate Bakeries Corporation.

Osborne Company, The, Clifton, N. J. Wallets, billfolds, key holders, and portfollos. 582,246, Nov. 10; Serial No. 633,859, published Aug. 11, 1953. Class 3.

Owens-Illinois Can Company, Toledo, Ohio, by Continental Can Company Inc., New York, N. Y. Metal boxes, cans, and receptacles. 391,885, Nov. 25, 1941. Republished Nov. 10. Class 2.

Paine, W. F., Ltd., Godalming, England. Men's and women's sweaters and men's and children's sport shirts and leisure jackets, etc. 582,232, Nov. 10; Serial No. 631,839, published Aug. 4, 1953. Class 39.

Paragon-Revolute Corporation, Rochester, N. Y. Machines for exposing and developing white prints, brown-line prints, etc. 582,339, Nov. 10; Serial No. 642,988, published Aug. 11, 1953. Class 26.

Parents' Institute, Inc., The, New York, N. Y. Magazine. 582,290–1, Nov. 10; Serial Nos. 639,708–9, published Aug. 11, 1953. Class 38.

Parfumerie Violet, Societe Anonyme: *See*
Veolay, Inc.

Parke, Davis & Company, Detroit, Mich. Multiple antibiotic preparation. 582,335, Nov. 10; Serial No. 642,896, published Aug. 11, 1953. Class 18.

Pennsylvania Transformer Company, Canonsburg, Pa., assignor to McGraw Electric Company. Distribution transformers. 582,184, Nov. 10; Serial No. 616,445, published Aug. 11, 1953. Class 21.

Perey Manufacturing Company, Inc., New York, N. Y. Turnstiles and like passage controlling gates. 309,247, renewed Jan 9, 1954. O. G. Nov. 10. Class 23.

Perry, Fernande, doing business as Sta-Tuk Industries, Eustis, Fla. Belts. 582,213, Nov. 10; Serial No. 626,955, published Aug. 4, 1953. Class 39.

Persons, Ralph H., doing business as American Vacuum Company, Chicago, Ill. Electrically operated vacuum cleaners. 582,216, Nov. 10; Serial No. 628,050, published July 14, 1953. Class 21.

Peters & Russell, Inc., Springfield, Ohio. Automobile headlight shields. 582,227, Nov. 10; Serial No. 630,613, published July 28, 1953. Class 21.

Phelps, Norman J., assignee: *See*—
Dana Perfumes, Inc.

Philadelphia Girl Coat Company, Philadelphia, Pa. Children's coats, leggings, and snow suits. 582,222, Nov. 10; Serial No. 629,513, published July 21, 1953. Class 39.

Piggly Wiggly Corporation, Jacksonville, Fla. Coffee, tea, fresh eggs, etc. 582,187, Nov. 10; Serial No. 618,006, published Aug. 11, 1953. Class 46.

Pillow-Pal Radios, Inc., Malden, Mass. Portable radio speakers. 582,185, Nov. 10; Serial No. 616,867, published July 21, 1953. Class 21.

Pioneer Suspender Company, Darby, Pa. Men's and boys' pajamas. 582,189, Nov. 10; Serial No. 618,713, published Apr. 22, 1952. Class 39.

Plasco Safety Products Company, The: *See*—
Rittoff, David.

Procter & Gamble Company, The, Cincinnati, Ohio. Bulk vegetable shortening. 308,251, renewed Nov. 28, 1953. O. G. Nov. 10. Class 46.

Puritan Company, Incorporated: *See*—
Puritan Soap Company.

Puritan Soap Company, to Puritan Company, Incorporated, Rochester, N. Y. Brake fluid. 305,721, renewed Aug. 22, 1953. O. G. Nov. 10. Class 6.

Puritan Soap Company, to Puritan Company, Incorporated, Rochester, N. Y. Liquid cement prepared especially as an adhesive, etc. 305,972, renewed Aug. 29, 1953. O. G. Nov. 10. Class 5.

Puritan Soap Company, to Puritan Company, Incorporated, Rochester, N. Y. Automobile polish. 306,053, renewed Sept. 5, 1953. O. G. Nov. 10. Class 4.

Quick Charge, Inc., Oklahoma City, Okla. Cleaning compound. 582,238, Nov. 10; Serial No. 632,387, published Aug. 4, 1953. Class 52.

Radiant Manufacturing Corporation, Chicago, Ill. Translucent to transparent fabrics for use in the manufacture of picture projection screens. 582,236, Nov. 10; Serial No. 632,101, published Aug. 4, 1953. Class 26.

Radio-Television Manufacturers Association, Washington, D. C. Publications. 582,175, Nov. 10; Serial No. 610,187, published Aug. 4, 1953. Class 38.

Railway & Industrial Engineering Co., Greensburg, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Electrical apparatus and switch gear, switch gear operating devices, etc. 582,166, Nov. 10; Serial No. 600,915, published July 14, 1953. Class 21.

Randolph, John, Tomball, Tex. Booklets, maps, and printed post cards. 582,220, Nov. 10; Serial No. 629,216, published Aug. 4, 1953. Class 38.

Raybestos-Manhattan, Inc., Passaic, N. J. Electrical insulation. 582,218, Nov. 10; Serial No. 628,713, published Aug. 11, 1953. Class 21.

Reflectone Corporation, The, Stamford, Conn. Target course generators, vector component integrators, analog computing devices, etc. 582,266, Nov. 10; Serial No. 637,086, published Aug. 4, 1953. Class 26.

Reingold Hosiery Co., to Gold Mark Hosiery Co., Inc., New York, N. Y. Ladies' and children's hosiery, and men's hosiery. 307,173, renewed Oct. 17, 1953. O. G. Nov. 10. Class 39.

Rich Guild Shirt Company, New York, N. Y. Men's sport shirts and dress shirts. 582,303, Nov. 10; Serial No. 640,807, published July 21, 1953. Class 29.

Rich-Roth Laboratories, East Hartford, Conn., to Bendix Aviation Corporation, New York, N. Y. Instrument comprising a probe and electronic computer, etc. 572,031, Mar. 17, 1953. New certificate. O. G. Nov. 10. Class 26.

Riki of California, Inc., Jersey City, N. J. Men's top coats, overcoats, storm coats, etc. 582,273, Nov. 10; Serial No. 638,313, published July 28, 1953. Class 39.

Rittoff, David, doing business as The Plasco Safety Products Company, Springfield, Ohio. Protective apparel. 582,223, Nov. 10; Serial No. 629,915, published July 21, 1953. Class 39.

Riviera Lamps: *See*—
Daubmeyer, Dewey G.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Electrically operated indicating and controlling instruments, etc. 582,245, Nov. 10; Serial No. 633,378, published Aug. 11, 1953. Class 26.

Root Manufacturing Co.: *See*—
Root Manufacturing Company, The.

Root Manufacturing Company, The, Cleveland, Ohio, by Root Manufacturing Co., Chicago, Ill. Machines and devices for applying insecticides. 393,306, Feb. 3, 1942. Republished Nov 10. Class 23.

Rosecrest Manufacturing Company, Boston, Mass. Rayon fabric. 582,333, Nov. 10; Serial No. 642,693, published Aug. 4, 1953. Class 42.

Ross, Will, Inc., Milwaukee, Wis. Curtains; curtain materials; sheets, etc. 307,620, renewed Oct. 31, 1953. O. G. Nov. 10. Class 42.

Ross, Will, Inc., Milwaukee, Wis. Paper sterilizing bags and paper tubing specially designed to contain catheters and surgical instruments. 582,263, Nov. 10; Serial No. 636,573, published Aug. 11, 1953. Class 44.

San-ei Sangyo Co., Ltd., Tokyo, Japan. Cameras. 582,334, Nov. 10; Serial No. 642,773, published Aug. 11, 1953. Class 26.

Sawitsky, E., & Bro. Inc., New York, N. Y. Men's and boys' clothing. 582,228, Nov. 10; Serial No. 630,734, published Jan. 20, 1953. Class 39.

Scarves by Vera, Inc., New York, N. Y. Scarves. 582,224, Nov. 10; Serial No. 630,031, published July 21, 1953. Class 39.

Schering Corporation, New York, N. Y., to Schering Corporation, Bloomfield, N. J. Laxative preparation. 308,722, renewed Dec. 19, 1953. O. G. Nov. 10. Class 18.

Schulze Baking Company: *See*—
Interstate Bakeries Corporation.

Seal Plate Company: *See*—
Fitzpatrick, Milton J.

Seiberling Rubber Company, Barberton, Ohio. Pneumatic rubber tires. 582,353, Nov. 10; Serial No. 645,265, published Aug. 11, 1953. Class 35.

Sewing Supplies, Inc., Chicago, Ill. Electric sewing machine motors and electric sewing machine lights. 582,230, Nov. 10; Serial No. 631,258, published July 14, 1953. Class 21.

Shattuck, Frank G., Company: *See*—
Shattuck, Frank G., Co.

Shattuck, Frank G., Co., to Frank G. Shattuck Company, New York, N. Y. Bakery product. 306,568, renewed Sept. 26, 1953. O. G. Nov. 10. Class 46.

Siegel Fabrics, Inc., Commack, N. Y. Piece goods. 582,323, Nov. 10; Serial No. 642,172, published Aug. 4, 1953. Class 42.

Simplex Piston Ring Co. of America, Inc., The, to Simplex Piston Ring Mfg. Company, Cleveland, Ohio. Piston pins. 305,248, renewed Aug. 8, 1953. O. G. Nov. 10. Class 23.

Simplex Piston Ring Mfg. Company: *See*—
Simplex Piston Ring Co. of America, Inc., The.

Siris, A. J., Products Corp., New York, N. Y. Plastic tablecloths. 582,302, Nov. 10; Serial No. 640,698, published Aug. 4, 1953. Class 42.

Skysweeper, Inc., assignee: *See*
Ferro Electric Products Inc.

Smith, Lawrence H., Washington, D. C. Newsletter. 582,343, Nov. 10; Serial No. 643,257, published Aug. 18, 1953. Class 38.

Smith, Lee S., & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Filling and cementing material for dental use. 582,277, Nov. 10; Serial No. 638,880, published Aug. 4, 1953. Class 44.

Société Anonyme de la Fabrique d'horlogerie Le Coultre & Cie, Le Sentier, Switzerland. Watches, watch movements, and parts thereof. 304,606–7, July 11, 1933. Republished Nov. 10. Class 27.

Societe Rhodiaceta, Paris, France. Textile ribbons and textile fabrics. 582,250, Nov. 10; Serial No. 634,509, published Aug. 11, 1953. Class 42.

South Texas Cotton Oil Company, Houston, Tex. Linseed oil. 383,979, Dec. 31, 1940. Republished Nov. 10. Class 6.

South Texas Cotton Oil Company, Houston, Tex. Salad and cooking oils. 420,307, Apr. 2, 1946. Republished Nov. 10. Class 46.

South Texas Cotton Oil Company, Houston, Tex. Turpentine. 423,245, Aug. 27, 1946. Republished Nov. 10. Class 6.

South Texas Cotton Oil Company, Houston, Tex. Oleaginous compound constituting a shortening and a substitue for lard. 426,103, Dec 17, 1946. Republished Nov. 10. Class 46.

Sprout, Waldron & Co., to Sprout Waldron & Company, Inc., Muncy, Pa. Machines for the manufacture of flour, cornmeal, and feed, etc. 91,615, re-renewed May 13, 1953. O. G. Nov. 10. Class 23.

Sprout, Waldron & Company, Inc.: *See*—
Sprout, Waldran & Co.

Stahmer, Bernhardt, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr. Potato chips. 582,149, Nov. 10; Serial No. 657,886, published Aug. 4, 1953. Class 46.

Stahmer, Bernhardt, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr. Potato chips. 582,160, Nov. 10; Serial No. 596,813, published July 28, 1953. Class 46.

Stahmer, Bernhardt, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr. Potato chips. 582,161, Nov. 10; Serial No. 596,877, published July 28, 1953. Class 46.

Stahmer, Bernhardt, doing business as Industrial Electrical Works, Omaha, Nebr. Automatic take up reels for electric cords and cables. 582,278, Nov. 10; Serial No. 638,882, published Aug. 11, 1953. Class 21.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Starting fuel. 582,314, Nov. 10; Serial No. 641,578, published July 28, 1953. Class 15.

Stanley Works, The, New Britain, Conn. Electric door controlling apparatus. 582,154, Nov. 10; Serial No. 587,832, published Aug. 11, 1953. Class 21

Sta-Tuk Industries: *See*—
Perry, Fernande.

Stem, Donald E., doing business under the name of Columbia Engineering Service Co., San Francisco, Calif. Magnets, permanent magnets and magnetic traps, etc. 582,190, Nov. 10; Serial No. 619,315, published July 28, 1953. Class 21

Stenor Limited, Richmond, England. Electrically heated vulcanizing machines, apparatus, and parts therefor. 582,240, Nov. 10; Serial No. 632,452, published July 28, 1953. Class 21.

Stenor Limited, Richmond, England. Electr. ally heated vulcanizing machines, apparatus, and parts therefor. 582,241, Nov. 10; Serial No. 632,653, published Aug. 11, 1953. Class 21.

Steralon Products, Incorporated, Dover, Del., and Philadelphia, Pa. Non-woven fabric. 582,293–5, Nov. 10; Serial Nos. 640,084–6, published Aug. 4, 1953. Class 42.

Sterling Drug Inc.: *See*—
Anklam, William E.
Sterling Products (Incorporated).

Sterling Products (Incorporated), Wheeling, W. Va., to Sterling Drug Inc., New York, N. Y. Preparation used in the treatment of colds. 305,344, renewed Aug. 15, 1953. O. G. Nov. 10. Class 18.

Stevens, Don, Classics, Inc., New York, N. Y. Men's top coats, suits, sport coats, and slacks. 582,292, Nov. 10; Serial No. 640,037, published Aug. 4, 1953. Class 39.

Stone, Bob, Cordage Company, The, Charlton, Iowa. Binder twine and baler twine. 582,326, Nov. 10; Serial No. 642,319, published July 14, 1953. Class 7.

Strahmer Corporation, Sioux Falls, S. Dak. Record book. 582,358, Nov. 10; Serial No. 623,262. Class 37.

Studio Guild Products Company, Chicago, Ill. Strips of sponge rubber. 582,188, Nov. 10; Serial No. 618,517, published July 28, 1953. Class 50.

Sun Chemical Corporation: *See*—
Warwick Chemical Company.

Superior Sewing Machine and Supply Corp., New York, N. Y. Tailor and household shears, folding shears, thread clipping shears, etc. 582,274, Nov. 10; Serial No. 638,501, published June 9, 1953. Class 23.

Sweet-Orr & Co., Inc., Wappingers Falls and New York, N. Y. Men's pants and outer shirts. 582,283, Nov. 10; Serial No. 639,294, published Aug. 4, 1953. Class 39.

Swivelier Company, Inc., New York, N. Y. Electrical lighting fixtures and parts thereof. 582,288, Nov. 10; Serial No. 639,596, published July 28, 1953. Class 21.

Taplin, Sol: *See*—
Nu-Grain Corporation.

Texas Company, The, New York, N. Y. Gasoline. 308,574, Dec 12, 1933. Amended. O. G. Nov. 10. Class 15.

Texas Company, The, Dover, Del., and New York, N. Y. Mineral oils used for rust-proofing purposes. 582,328, Nov. 10; Serial No. 642,378, published July 21, 1953. Class 15.

Texas Harvest Hat Company, Laredo, Tex. Men's, ladies' and children's hats. 582,195, Nov. 10; Serial No. 622,182, published Aug. 4, 1953. Class 39.

Textile Engineering Corporation, Whitman, Mass. Textile spinning machinery. 582,255, Nov. 10; Serial No. 635,070, published June 9, 1953. Class 23.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil. 582,243, Nov. 10; Serial No. 633,005, published July 28, 1953. Class 15.

Timely Clothes, Inc., Rochester, N. Y. Men's and young men's suits, topcoats, overcoats, etc. 582,153, Nov. 10; Serial No. 583,455, published Aug. 4, 1953. Class 39.

Times Facsimile Corporation, New York, N. Y. Machines for duplicating written, printed, graphic or pictorial subject matter, etc. 582,181, Nov. 10; Serial No 614,224, published Aug. 11, 1953. Class 21.

Tollemache's Breweries Limited, Ipswich, England. Ales. 307,496, renewed Oct. 24, 1953. O G. Nov. 10. Class 48.

Travel Auto Bag Co.: *See*—
Cooper, Joseph B.

Uncle Johnny Mills, Houston, Tex. Baby livestock feed. 582,199, Nov. 10; Serial No. 623,217, published July 1, 1952. Class 46.

United Elastic Corporation, Easthampton, Mass. Woven elastic webbing. 582,340, Nov. 10; Serial No. 643,054, published Aug. 4, 1953. Class 42.

United Hosiery Mills Corporation, Chattanooga, Tenn., assignor to United Sales Corporation, Wilmington, Del. Polo shirts, cardigans, shorts, etc. 582,321, Nov. 10; Serial No. 642,055, published July 28, 1953. Class 39.

United Sales Corporation, assignee: *See*—
United Hosiery Mills Corporation.

U. S. Diamond Ring Corp., New York, N. Y. Bracelets. 582,360, Nov. 10; Serial No. 630,816. Class 28.

U. S. Handbag Corporation, New York, N. Y. Ladies' handbags. 582,304, Nov. 10; Serial No. 640,980, published Aug. 4, 1953. Class 3.

United States Travelware Corporation, Fitchburg, Mass., to United States Travelware Corporation, Manchester, N. H. Suitcases. 307,924, renewed Nov. 14, 1953. O. G. Nov. 10. Class 3.

Valette, J. L. J., et Cie., Paris, France. Prism binoculars, opera, field, and marine glasses, and reading glasses. 582,180, Nov. 10; Serial No. 613,007, published Aug. 11, 1953. Class 26.

Valley Paper Company: *See*—
Hampshire Paper Company.

Varian Associates, Palo Alto, Calif. Thermionic tubes and tube circuits; and traveling wave tubes and tube circuits. 582,256, Nov. 10; Serial No. 635,205, published Aug 4, 1953. Class 21.

Vaughan Crane Company Limited, The, West Gorton, Manchester, England. Electric controls. 582,179, Nov. 10; Serial No. 611,624, published July 14, 1953. Class 21.

Vegetable Oil Products Company, Inc., Wilmington, Calif. Coconut oil popcorn seasoning. 582,311, Nov. 10; Serial No. 641,358, published Aug. 4, 1953. Class 46.

Veolay, Inc., New York, N. Y., to Parfumerie Violet, Societe Anonyme, Paris, France. Perfumes. 302,934, renewed May 2, 1953. O. G. Nov. 10. Class 51.

Veteran Foods Sales Co.: *See*—
Brewster, E. Franklin.

Victory Optical Manufacturing Co., Newark, N. J. Spectacle frames. 582,203, Nov. 10; Serial No. 624,114, published Aug. 4, 1953. Class 26.

Vindobona Importing Co.: *See*—
Zelinka, Hans G.

Vortex Cup Company, Chicago, Ill., to Dixie Cup Company, Easton, Pa. Paper cups. 305,217, renewed Aug. 8, 1953. O. G. Nov. 10. Class 2.

WPL 7997: *See*—
Day's Tailor-D Clothing, Inc.

Waldron, John, Corporation, Highland Park, N. J. Web fed, rotary, offset printing presses. 582,315, Nov. 10; Serial No. 641,587, published June 9, 1953. Class 23.

Wallach's, Inc., New York, N. Y., and elsewhere. Hats. 582,268, Nov. 10; Serial No. 637,468, published July 14, 1953. Class 39.
Ward Leonard Electric Company, Mount Vernon, N. Y. Electrical resistors. 582,249, Nov. 10; Serial No. 634,503, published July 28, 1953. Class 21.
Ward-Stilson Company, The, Anderson, Ind. Collars. 582,207, Nov. 10; Serial No. 625,506, published July 14, 1953. Class 39.
Warwick Chemical Company, West Warwick, R. I., to Sun Chemical Corporation, Long Island City, N. Y. Chemical materials. 307,769, renewed Oct. 31, 1953. O. G. Nov. 10. Class 6.
Weber Baking Co.: *See*—
Interstate Bakeries Corporation.
Weiger Weed & Company, Detroit, Mich. Non-consumable resistance welding tips or electrodes, spot welding tips, seam welding wheels, etc. 582,336, Nov. 10; Serial No. 642,916, published Aug. 11, 1953. Class 21.
Western Auto Supply Company: *See*—
Wizard, Inc.
Western Auto Supply Company, Kansas City, Mo. Non-metallic automobile tires. 309,354, renewed Jan. 9, 1954. O. G. Nov. 10. Class 35.
Wigler, Albert L., Newark, N. J. Oil for the treatment of the skin, tissues, scalp, face, etc. 306,310, renewed Sept. 12, 1953. O. G. Nov. 10. Class 18.
Wild, Henry, Surveying Instruments Supply Company of America, Inc., Brooklyn, N. Y. Microscopes, telescopes, chronographs, etc. 582,191, Nov. 10; Serial No. 620,705, published July 28, 1953. Class 26.
Wild Acres Turkey Farm: *See*—
Adams, Frederick C.
Williams, Dwight S., Company, Inc., New York, N. Y. Socks. 582,320, Nov. 10; Serial No. 642,001, published Aug. 11, 1953. Class 39.
Willow Shirt Corporation, The, New Haven, Conn. Men's and boys' dress shirts. 582,264, Nov. 10; Serial No. 636,832, published July 14, 1953. Class 39.
Wilson Brothers, Chicago, Ill., to Duralaun Corporation, New York, N. Y. Men's negligee shirts. 308,923, renewed Dec. 26, 1953. O. G. Nov. 10. Class 39.
Windsor-Lloyd Products, Inc., Wilmington, Del. Adhesive liquid cement. 440,412, Aug. 31, 1948. Republished Nov. 10. Class 5.
Winne, Frank W., & Son, Inc., Philadelphia, Pa. Cordage items. 582,202, Nov. 10; Serial No. 623,863, published Mar. 3, 1953. Class 7.
Wizard, Inc., Chicago, Ill., to Western Auto Supply Company, Kansas City, Mo. Touch-up paint enamel. 309,617, renewed Jan. 23, 1954. O. G. Nov. 10. Class 16.
Workshop Associates, Incorporated, The, Needham Heights, Mass., now by change of name The G. G. G. Corporation, assignor to The Gabriel Company, Cleveland, Ohio. Antennas, coaxial and wave-guide transmission lines, and impedance adapters, etc. 582,162, Nov. 10; Serial No. 597,246, published Aug. 4, 1953. Class 21.
Worthington Ball Company, The, Elyria, Ohio. Covers for golf balls. 582,351, Nov. 10; Serial No. 644,367, published Aug. 11, 1953. Class 22.
Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing gum. 304,150, June 20, 1933. Republished Nov. 10. Class 46.
Zelinka, Hans G., doing business as Vindobona Importing Co., New York, N. Y. Trowels. 582,217, Nov. 10; Serial No. 628,076, published June 9, 1953. Class 23.
Zellwood Fruit Distributors, Inc., Zellwood, Fla. Fresh citrus fruit and watermelons. 582,177, Nov. 10; Serial No. 610,535, published July 14, 1953. Class 46.
Zylite Products Co. Inc., New York, N. Y. Eyeglass frames. 582,237, Nov. 10; Serial No. 632,191, published Aug. 4, 1953. Class 26.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 2

Bags, Paper, and drinking cups. The American Paper Goods Company. 307,540, renewed Oct. 31, 1953. O. G. Nov. 10.
Boxes, cans and receptacles, Metal. Owens-Illinois Can Company. 391,885, Nov. 25, 1941. Republished Nov. 10.
Cups, Paper. Vortex Cup Company. 305,217, renewed Aug. 8, 1953. O. G. Nov. 10.

CLASS 3

Hand bags and pocketbooks, Ladies'. Champ Products Corporation. 582,300, Nov. 10; Serial No. 640,498, published Aug. 4, 1953.
Handbags, Ladies'. U. S. Handbag Corporation. 582,304, Nov. 10; Serial No. 640,989, published Aug. 4, 1953.
Luggage, Hand. Abel & Bach Inc. 582,260, Nov. 10; Serial No. 636,106, published Aug. 4, 1953.
Suitcases. United States Travelware Corporation. 307,924, renewed Nov. 14, 1953. O. G. Nov. 10.
Traveling bags. J. B. Cooper. 582,361, Nov. 10; Serial No. 624,447.
Wallets, billfolds, key holders, and portfolios. The Osborne Company. 582,246, Nov. 10; Serial No. 633,859, published Aug. 11, 1953.
Wallets, billfolds, purses, etc. Aristocrat Leather Products, Inc. 582,286, Nov. 10; Serial No. 639,547, published Aug. 4, 1953.

CLASS 4

Paint and varnish, polish and wax, Inside and outside ready-mixed house. Butler Brothers. 582,148, Nov. 10; Serial No. 567,493, published July 28, 1953.
Polish, Automobile. M. J. Fitzpatrick. 582,362, Nov. 10; Serial No. 629,563.
Polish, Automobile. Puritan Soap Company. 306,053, renewed Sept. 5, 1953. O. G. Nov. 10.

CLASS 5

Adhesive liquid cement. Windsor-Lloyd Products, Inc. 440,412, Aug. 31, 1948. Republished Nov. 10.
Cement prepared especially as an adhesive, etc., Liquid. Puritan Soap Company. 305,972, renewed Aug. 29, 1953. O. G. Nov. 10.

CLASS 6

Brake fluid. Puritan Soap Company. 305,721, renewed Aug. 22, 1953. O. G. Nov. 10.
Chemical materials. Warwick Chemical Company. 307,769, renewed Oct. 31, 1953. O. G. Nov. 10.
Chemical preparation. Geigy Company, Inc. 582,352, Nov. 10; Serial No. 645,140, published Aug. 25, 1953.
Chemical water repellent. Crown Chemical Corporation. 582,248, Nov. 10; Serial No. 634,075, published Aug. 11, 1953.
Disinfectant and fungicide. King Research, Inc. 582,345, Nov. 10; Serial No. 643,340, published Aug. 4, 1953.
Insecticide. The Dow Chemical Company. 582,155, Nov. 10; Serial No. 591,226, published Nov. 7, 1950.
Linseed oil. South Texas Cotton Oil Company. 383,979, Dec. 31, 1940. Republished Nov. 10.
Turpentine. South Texas Cotton Oil Company. 423,245, Aug. 27, 1946. Republished Nov. 10.

CLASS 7

Cordage. Chicago Printed String Co. 305,447, renewed Aug. 15, 1953. O. G. Nov. 10.
Cordage items. Frank W. Winne & Son, Inc. 582,202, Nov. 10; Serial No. 623,863, published Mar. 3, 1953.
Ribbons for use in tying and ornamenting packages, etc. Burlington Mills Corporation. 582,257, Nov. 10; Serial No. 635,398, published July 14, 1953.
Twine, Binder, and baler twine. The Bob Stone Cordage Company. 582,326, Nov. 10; Serial No. 642,319, published July 14, 1953.

CLASS 11

Materials used in lithographic printing, namely, inks, etc. A. B. Dick Company. 582,176, Nov. 10; Serial No. 610,422, published July 28, 1953.

CLASS 12

Caulking and sealing composition, Plastic. The Armstrong Company. 582,364, Nov. 10; Serial No. 641,116.
Flooring, Rubber tile. American Tile and Rubber Company. 385,013, Feb. 11, 1941. Republished Nov. 10.

CLASS 13

Fence posts, Metallic. Keystone Steel & Wire Company. 308,004, renewed Nov. 14, 1953. O. G. Nov. 10.

CLASS 14

Ferrous and non-ferrous castings. J. Levine. 582,253, Nov. 10; Serial No. 634,647, published May 12, 1953.
Metal, Expanded. The Expanded Metal Company Limited. 92,204, re-renewed June 24, 1953. O. G. Nov. 10.

CLASS 15

Fuel, Starting. Standard Oil Company of California. 582,314, Nov. 10; Serial No. 641,578, published July 28, 1953.
Gasoline. Hancock Oil Company of California. 303,972–3, renewed June 13, 1953. O. G. Nov. 10.
Gasoline. The Texas Company. 308,574, Dec. 12, 1933. Amended. O. G. Nov. 10.
Mineral oils used for rust-proofing purposes. The Texas Company. 582,328, Nov. 10; Serial No. 642,378, published July 21, 1953.
Oil, Lubricating. Tide Water Associated Oil Company. 582,243, Nov. 10; Serial No. 633,005, published July 28, 1953.

CLASS 16

Paint enamel, Touch-up. Wizard, Inc. 309,617, renewed Jan. 23, 1954. O. G. Nov. 10.

CLASS 18

Acetyl salicyclic acid combined with calcium salts. W. E. Anklam. 305,993, renewed Aug. 29, 1953. O. G. Nov. 10.
Antibiotic mixtures. Heyden Chemical Corporation. 582,332, Nov. 10; Serial No. 642,638, published Aug. 11, 1953.
Antibiotic preparation, Multiple. Parke, Davis & Company. 582,335, Nov. 10; Serial No. 642,896, published Aug. 11, 1953.
Laxative and diuretic medicinal tea. The Knox Company. 305,358, renewed Aug. 15, 1953. O. G. Nov. 10.
Laxative preparation. Schering Corporation. 308,722, renewed Dec. 19, 1953. O. G. Nov. 10.
Medicinal preparation. Calvital Company, Inc. 582,152, Nov. 10; Serial No. 582,815, published Dec. 5, 1950.
Medicine in ampule form for physical or mental depression, etc. Les Laboratoires Albert Rolland, Société Anonyme. 582,307, Nov. 10; Serial No. 641,062, published July 21, 1953.
Oil for the treatment of the skin, tissues, scalp, face, etc. A. I. Wigler. 306,310, renewed Sept. 12, 1953. O. G. Nov. 10.
Oral lipid emulsion. Adweyt Company. 582,337, Nov. 10; Serial No. 642,925, published Aug. 11, 1953.
Preparation used in the treatment of colds. Sterling Products (Incorporated). 305,344, renewed Aug. 15, 1953. O. G. Nov. 10.
Sedative. Les Laboratoires Albert Rolland, Société Anonyme. 582,308, Nov. 10; Serial No. 641,063, published July 21, 1953.
Therapeutic iron compound. Flint, Eaton and Company. 582,306, Nov. 10; Serial No. 641,036, published July 21, 1953.
Therapeutic products. Chemische Werke Albert. 582,219, Nov. 10; Serial No. 628,919, published Aug 4, 1953.
Vitamins. Merck & Co., Inc. 582,261, Nov. 10; Serial No. 636,139, published July 21, 1953.

CLASS 21

Antenna, Television. The Gabriel Company. 582,316, Nov. 10, Serial No. 641,616, published July 21, 1953.
Antennae, Television. Ferro Electric Products Inc. 582,201, Nov. 10; Serial No. 623,597, published July 14, 1953.
Antennas. The La Pointe-Plascomold Corporation. 582,208, Nov. 10; Serial No. 625,535, published July 14, 1953.
Antennas, coaxial and wave-guide transmission lines, and impedance adapters, etc. The Workshop Associates, Incorporated. 582,162, Nov. 10; Serial No. 597,246, published Aug. 4, 1953.
Apparatus to teach speech to deaf and hard of hearing students. H. R. Goldberg. 582,165, Nov. 10, Serial No. 600,662, published Mar. 24, 1953.
Automatic take up reels for electric cords and cables. B. Stahmer. 582,278, Nov. 10; Serial No. 638,882, published Aug. 11, 1953.
Circuit control elements, Electrical. Ohmite Manufacturing Company. 582,206, Nov. 10; Serial No. 625,434, published July 14, 1953.
Condenser power units and electric welding apparatus. Federal Tool Engineering, Inc. 582,172, Nov. 10; Serial No. 607,543, published Aug. 4, 1953.
Condensers or capacitors, Electrical. Industrial Condenser Corporation. 582,192, Nov. 10; Serial No. 621,065, published Aug. 11, 1953.
Distribution transformers. Pennsylvania Transformer Company. 582,184, Nov. 10; Serial No. 616,445, published Aug. 11, 1953.
Electric control unit. Air Reduction Company, Incorporated. 582,205, Nov. 10; Serial No. 625,385, published July 14, 1953.
Electric controls. The Vaughan Crane Company Limited. 582,179, Nov. 10; Serial No. 611,624, published July 14, 1953.
Electric domestic vacuum cleaners. R. Kahn. 582,357, Nov. 10; Serial No. 615,493.
Electric door controlling apparatus. The Stanley Works. 582,154, Nov. 10; Serial No. 587,832, published Aug. 11, 1953.
Electric furnaces. The Ajax Metal Company. 416,392, Sept. 11, 1945. Amended. O. G. Nov. 10.
Electric sewing machine motors and electric sewing machine lights. Sewing Supplies, Inc. 582,230, Nov. 10; Serial No. 631,258, published July 14, 1953.
Electric sleeping pads. Ettinger Manufacturing Company. 582,173, Nov. 10; Serial No. 608,304, published Oct. 9, 1951.
Electric vacuum cleaners. Eureka Williams Corporation. 582,298, Nov. 10; Serial No. 640,447, published July 28, 1953.
Electrical and electronic circuits, Printed. Circuitron, Inc. 582,341, Nov. 10; Serial No. 643,075, published Aug. 11, 1953.
Electrical apparatus. Ionics, Inc. 582,196–7, Nov. 10; Serial Nos. 622,213–14, published Aug. 11, 1953.
Electrical apparatus and electrical units. Ionics, Inc. 582,235, Nov. 10; Serial No. 632,033, published Aug. 11, 1953.
Electrical apparatus and switch gear, switch gear operating devices, etc. Railway & Industrial Engineering Co. 582,166, Nov. 10; Serial No. 600,915, published July 14, 1953.
Electrical generators, television cameras, television camera control units, etc. General Precision Laboratory Incorporated. 582,259, Nov. 10; Serial No. 635,960, published July 14, 1953.
Electrical heating elements and electrical immersion water heaters. The Ambory Corporation. 582,275, Nov. 10; Serial No. 638,513, published July 14, 1953.
Electrical insulation. Raybestos-Manhattan, Inc. 582,218, Nov. 10; Serial No. 628,713, published Aug. 11, 1953.
Electrical plugs. Essex Wire Corporation. 582,167, Nov. 10; Serial No. 601,204, published July 14, 1953.
Electrical resistors. Ward Leonard Electric Company. 582,249, Nov. 10; Serial No. 634,503, published July 28, 1953.
Electrically driven egg cleaners, and egg candling lights. National Poultry Equipment Company. 582,163, Nov. 10; Serial No. 599,384, published July 28, 1953.
Electrically heated vulcanizing machines, apparatus, and parts therefor. Stenor Limited. 582,240, Nov. 10; Serial No. 632,452, published July 28, 1953.
Electrically heated vulcanizing machines, apparatus, and parts therefor. Stenor Limited. 582,241, Nov. 10; Serial No. 632,653, published Aug. 11, 1953.
Electronic filter and by-pass units. Globe-Union Inc. 582,272, Nov. 10; Serial No. 638,300, published July 14, 1953.
Electrostatic dust precipitating equipment. Collectron (Proprietary) Limited. 582,265, Nov. 10; Serial No. 636,877, published July 21, 1953.
Extruded plastic tubings, used as electrical insulation. L. Frank Markel & Sons. 582,151, Nov. 10; Serial No. 581,199, published July 28, 1953.
Headlight shields, Automobile. Peters & Russell, Inc. 582,227, Nov. 10; Serial No. 630,613, published July 28, 1953.
Ignition coils and ignition distributors. Mallory Electric Corporation. 582,309, Nov. 10; Serial No. 641,193, published July 14, 1953.
Lamps, Electric. D. C. Daubmeyer. 582,279, Nov. 10; Serial No. 638,901, published July 14, 1953.
Lighting assemblies, Electric. Joy Manufacturing Company. 582,186, Nov. 10; Serial No. 617,253, published Aug. 11, 1953.
Lighting fixtures and parts thereof, Electrical. Swivelier Company, Inc. 582,288, Nov. 10; Serial No. 639,596, published July 28, 1953.
Lighting fixtures, Electric. Kirkwood Industries, Inc. 582,239, Nov. 10; Serial No. 632,432, published Aug. 4, 1953.
Lighting fixtures, Electrical. Easy-Eye Lighting, Inc. 582,254, Nov. 10; Serial No. 634,683, published July 28, 1953.
Machines for duplicating written, printed, graphic or pictorial subject matter, etc. Times Facsimile Corporation. 582,181, Nov. 10; Serial No. 614,224, published Aug. 11, 1953.
Magnets, permanent magnets and magnetic traps, etc. D. E. Stem. 582,190, Nov. 10; Serial No. 619,315, published July 28, 1953.
Probes and brushes with ionizing means for causing the dissipation of static electric charges. Nuclear Products Company. 582,209, Nov. 10; Serial No. 625,862, published July 28, 1953.
Radio receivers; radio receiver accessories, radio transmitters and radio transmitter accessories. James Millen Manufacturing Company, Inc. 582,178, Nov. 10; Serial No. 611,034, published Aug. 11, 1953.
Radio speakers, Portable. Pillow-Pal Radios, Inc. 582,185, Nov. 10; Serial No. 616,867, published July 21, 1953.
Resistance welding tips or electrodes, Non-consumable, spot welding tips, seam welding wheels, etc. Weiger Weed & Company. 582,336, Nov. 10; Serial No. 642,916, published Aug. 11, 1953.
Separators for storage batteries. Gould-National Batteries, Inc. 582,242, Nov. 10; Serial No. 632,783, published July 28, 1953.
Switchboards and the sections therefor, Electrical sectional. General Electric Company. 582,198, Nov. 10; Serial No. 622,331, published Aug. 11, 1953.
Telephone, telegraph, and teletype apparatus. Maspeth Telephone & Radio Corporation. 582,269, Nov. 10; Serial No. 637,661, published July 14, 1953.
Television receiving sets. Kaye-Halbert Corporation. 582,280, Nov. 10; Serial No. 638,958, published July 14, 1953.
Tubes, Thermionic, and tube circuits; and traveling wave tubes and tube circuits. Varian Associates. 582,256, Nov. 10; Serial No. 635,205, published Aug. 4, 1953.
Vacuum cleaners, Electrically operated. R. H. Persons. 582,216, Nov. 10; Serial No. 628,050, published July 14, 1953.
Video receivers, radio receiving apparatus, electric phonograph apparatus, etc. Jackson Industries, Inc. 582,159, Nov. 10; Serial No. 594,841, published July 21, 1953.

Wallach's, Inc., New York, N. Y., and elsewhere. Hats. 582,268, Nov. 10; Serial No. 637,468, published July 14, 1953. Class 39.
Ward Leonard Electric Company, Mount Vernon, N. Y. Electrical resistors. 582,249, Nov. 10; Serial No. 634,503, published July 28, 1953. Class 21.
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Western Auto Supply Company: *See*—
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Windsor-Lloyd Products, Inc., Wilmington, Del. Adhesive liquid cement. 440,412, Aug. 31, 1948. Republished Nov. 10. Class 5.
Winne, Frank W., & Son, Inc., Philadelphia, Pa. Cordage items. 582,202, Nov. 10; Serial No. 623,863, published Mar. 3, 1953. Class 7.
Wizard, Inc., Chicago, Ill., to Western Auto Supply Company, Kansas City, Mo. Touch-up paint enamel. 309,617, renewed Jan. 23, 1954. O. G. Nov. 10. Class 16.
Workshop Associates, Incorporated, The, Needham Heights, Mass., now by change of name The G. G. G. Corporation, assignor to The Gabriel Company, Cleveland, Ohio. Antennas, coaxial and wave-guide transmission lines, and impedance adapters, etc. 582,162, Nov. 10; Serial No. 597,246, published Aug. 4, 1953. Class 21.
Worthington Ball Company, The, Elyria, Ohio. Covers for golf balls. 582,351, Nov. 10; Serial No. 644,367, published Aug. 11, 1953. Class 22.
Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing gum. 304,150, June 20, 1933. Republished Nov. 10. Class 46.
Zellnka, Hans G., doing business as Vindobona Importing Co., New York, N. Y. Trowels. 582,217, Nov. 10; Serial No. 628,076, published June 9, 1953. Class 23.
Zellwood Fruit Distributors, Inc., Zellwood, Fla. Fresh citrus fruit and watermelons. 582,177, Nov. 10; Serial No. 610,535, published July 14, 1953. Class 46.
Zylite Products Co. Inc., New York, N. Y. Eyeglass frames. 582,237, Nov. 10; Serial No. 632,191, published Aug. 4, 1953. Class 26.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 2

Bags, Paper, and drinking cups. The American Paper Goods Company. 307,540, renewed Oct. 31, 1953. O. G. Nov. 10.
Boxes, cans and receptacles, Metal. Owens-Illinois Can Company. 391,885, Nov. 25, 1941. Republished Nov. 10.
Cups, Paper. Vortex Cup Company. 305,217, renewed Aug. 8, 1953. O. G. Nov. 10.

CLASS 3

Hand bags and pocketbooks, Ladies'. Champ Products Corporation. 582,300, Nov. 10; Serial No. 640,498, published Aug. 4, 1953.
Handbags, Ladies'. U. S. Handbag Corporation. 582,304, Nov. 10; Serial No. 640,980, published Aug. 4, 1953.
Luggage, Hand. Abel & Bach Inc. 582,260, Nov. 10; Serial No. 636,106, published Aug. 4, 1953.
Suitcases. United States Travelware Corporation. 307,924, renewed Nov. 14, 1953. O. G. Nov. 10.
Traveling bags. J. B. Cooper. 582,361, Nov. 10; Serial No. 624,447.
Wallets, billfolds, key holders, and portfolios. The Osborne Company. 582,246, Nov. 10; Serial No. 633,859, published Aug. 11, 1953.
Wallets, billfolds, purses, etc. Aristocrat Leather Products, Inc. 582,286, Nov. 10; Serial No. 639,547, published Aug. 4, 1953.

CLASS 4

Paint and varnish, polish and wax, Inside and outside ready-mixed house. Butler Brothers. 582,148, Nov. 10; Serial No. 567,493, published July 28, 1953.
Polish, Automobile. M. J. Fitzpatrick. 582,362, Nov. 10; Serial No. 629,563.
Polish, Automobile. Puritan Soap Company. 306,053, renewed Sept. 5, 1953. O. G. Nov. 10.

CLASS 5

Adhesive liquid cement. Windsor-Lloyd Products, Inc. 440,412, Aug. 31, 1948. Republished Nov. 10.
Cement prepared especially as an adhesive, etc., Liquid. Puritan Soap Company. 305,972, renewed Aug. 29, 1953. O. G. Nov. 10.

CLASS 6

Brake fluid. Puritan Soap Company. 305,721, renewed Aug. 22, 1953. O. G. Nov. 10.
Chemical materials. Warwick Chemical Company. 307,769, renewed Oct. 31, 1953. O. G. Nov. 10.
Chemical preparation. Geigy Company, Inc. 582,352, Nov. 10; Serial No. 645,140, published Aug. 25, 1953.
Chemical water repellent. Crown Chemical Corporation. 582,248, Nov. 10; Serial No. 634,075, published Aug. 11, 1953.
Disinfectant and fungicide. King Research, Inc. 582,345, Nov. 10; Serial No. 643,340, published Aug. 4, 1953.
Insecticide. The Dow Chemical Company. 582,155, Nov. 10; Serial No. 591,226, published Nov. 7, 1950.
Linseed oil. South Texas Cotton Oil Company. 383,979, Dec. 31, 1940. Republished Nov. 10.
Turpentine. South Texas Cotton Oil Company. 423,245, Aug. 27, 1946. Republished Nov. 10.

CLASS 7

Cordage. Chicago Printed String Co. 305,447, renewed Aug. 15, 1953. O. G. Nov. 10.
Cordage items. Frank W. Winne & Son, Inc. 582,202, Nov. 10; Serial No. 623,863, published Mar. 3, 1953.
Ribbons for use in tying and ornamenting packages, etc. Burlington Mills Corporation. 582,257, Nov. 10; Serial No. 635,398, published July 14, 1953.
Twine, Binder, and baler twine. The Bob Stone Cordage Company. 582,326, Nov. 10; Serial No. 642,319, published July 14, 1953.

CLASS 11

Materials used in lithographic printing, namely, inks, etc. A. B. Dick Company. 582,176, Nov. 10; Serial No. 610,422, published July 28, 1953.

CLASS 12

Caulking and sealing composition, Plastic. The Armstrong Company. 582,364, Nov. 10; Serial No. 641,116.
Flooring, Rubber tile. American Tile and Rubber Company. 385,013, Feb. 11, 1941. Republished Nov. 10.

CLASS 13

Fence posts, Metallic. Keystone Steel & Wire Company. 308,004, renewed Nov. 14, 1953. O. G. Nov. 10.

CLASS 14

Ferrous and non-ferrous castings. J. Levine. 582,253, Nov. 10; Serial No. 634,647, published May 12, 1953.
Metal, Expanded. The Expanded Metal Company Limited. 92,204, re-renewed June 24, 1953. O. G. Nov. 10.

CLASS 15

Fuel, Starting. Standard Oil Company of California. 582,314, Nov. 10; Serial No. 641,578, published July 28, 1953.
Gasoline. Hancock Oil Company of California. 303,972–3, renewed June 13, 1953. O. G. Nov. 10.
Gasoline. The Texas Company. 308,574, Dec. 12, 1933. Amended. O. G. Nov. 10.
Mineral oils used for rust-proofing purposes. The Texas Company. 582,328, Nov. 10; Serial No. 642,378, published July 21, 1953.
Oil, Lubricating. Tide Water Associated Oil Company. 582,243, Nov. 10; Serial No. 633,005, published July 28, 1953.

CLASS 16

Paint enamel, Touch-up. Wizard, Inc. 309,617, renewed Jan. 23, 1954. O. G. Nov. 10.

CLASS 18

Acetyl salicyclic acid combined with calcium salts. W. E. Anklam. 305,993, renewed Aug. 29, 1953. O. G. Nov. 10.
Antibiotic mixtures. Heyden Chemical Corporation. 582,332, Nov. 10; Serial No. 642,638, published Aug. 11, 1953.
Antibiotic preparation, Multiple. Parke, Davis & Company. 582,335, Nov. 10; Serial No. 642,896, published Aug. 11, 1953.
Laxative and diuretic medicinal tea. The Knox Company. 305,358, renewed Aug. 15, 1953. O. G. Nov. 10.
Laxative preparation. Schering Corporation. 308,722, renewed Dec. 19, 1953. O. G. Nov. 10.
Medicinal preparation. Calvital Company, Inc. 582,152, Nov. 10; Serial No. 582,815, published Dec. 5, 1950.
Medicine in ampule form for physical or mental depression, etc. Les Laboratoires Albert Rolland, Société Anonyme. 582,307, Nov. 10; Serial No. 641,062, published July 21, 1953.
Oil for the treatment of the skin, tissues, scalp, face, etc. A. I. Wigler. 306,310, renewed Sept. 12, 1953. O. G. Nov. 10.
Oral lipid emulsion. Adweyt Company. 582,337, Nov. 10; Serial No. 642,925, published Aug. 11, 1953.
Preparation used in the treatment of colds. Sterling Products (Incorporated). 305,344, renewed Aug. 15, 1953. O. G. Nov. 10.
Sedative. Les Laboratoires Albert Rolland, Société Anonyme. 582,308, Nov. 10; Serial No. 641,063, published July 21, 1953.
Therapeutic iron compound. Flint, Eaton and Company. 582,306, Nov. 10; Serial No. 641,036, published July 21, 1953.
Therapeutic products. Chemische Werke Albert. 582,219, Nov. 10; Serial No. 628,919, published Aug. 4, 1953.
Vitamins. Merck & Co., Inc. 582,261, Nov. 10; Serial No. 636,139, published July 21, 1953.

CLASS 21

Antenna, Television. The Gabriel Company. 582,316, Nov. 10; Serial No. 641,616, published July 21, 1953.
Antennae, Television. Ferro Electric Products Inc. 582,201, Nov. 10; Serial No. 623,597, published July 14, 1953.
Antennas. The La Pointe-Plascomold Corporation. 582,208, Nov. 10; Serial No. 625,535, published July 14, 1953.
Antennas, coaxial and wave-guide transmission lines, and impedance adapters, etc. The Workshop Associates, Incorporated. 582,162, Nov. 10; Serial No. 597,246, published Aug. 4, 1953.
Apparatus to teach speech to deaf and hard of hearing students. H. R. Goldberg. 582,165, Nov. 10; Serial No. 600,662, published Mar. 24, 1953.
Automatic take up reels for electric cords and cables. B. Stahmer. 582,278, Nov. 10; Serial No. 638,882, published Aug. 11, 1953.
Circuit control elements, Electrical. Ohmite Manufacturing Company. 582,206, Nov. 10; Serial No. 625,434, published July 14, 1953.
Condenser power units and electric welding apparatus. Federal Tool Engineering, Inc. 582,172, Nov. 10; Serial No. 607,543, published Aug. 4, 1953.
Condensers or capacitors, Electrical. Industrial Condenser Corporation. 582,192, Nov. 10; Serial No. 621,065, published Aug. 11, 1953.
Distribution transformers. Pennsylvania Transformer Company. 582,184, Nov. 10; Serial No. 616,445, published Aug. 11, 1953.
Electric control unit. Air Reduction Company, Incorporated. 582,205, Nov. 10; Serial No. 625,385, published July 14, 1953.
Electric controls. The Vaughan Crane Company Limited. 582,179, Nov. 10; Serial No. 611,624, published July 14, 1953.
Electric domestic vacuum cleaners. R. Kahn. 582,357, Nov. 10; Serial No. 615,493.
Electric door controlling apparatus. The Stanley Works. 582,154, Nov. 10; Serial No. 587,832, published Aug. 11, 1953.
Electric furnaces. The Ajax Metal Company. 416,392, Sept. 11, 1945. Amended. O. G. Nov. 10.
Electric sewing machine motors and electric sewing machine lights. Sewing Supplies, Inc. 582,230, Nov. 10; Serial No. 631,258, published July 14, 1953.
Electric sleeping pads. Ettinger Manufacturing Company. 582,173, Nov. 10; Serial No. 608,304, published Oct. 9, 1951.
Electric vacuum cleaners. Eureka Williams Corporation. 582,298, Nov. 10; Serial No. 640,447, published July 28, 1953.
Electrical and electronic circuits, Printed. Circuitron, Inc. 582,341, Nov. 10; Serial No. 643,075, published Aug. 11, 1953.
Electrical apparatus. Ionics, Inc. 582,196–7, Nov. 10; Serial Nos. 622,213–14, published Aug. 11, 1953.
Electrical apparatus and electrical units. Ionics, Inc. 582,235, Nov. 10; Serial No. 632,033, published Aug. 11, 1953.
Electrical apparatus and switch gear, switch gear operating devices, etc. Railway & Industrial Engineering Co. 582,166, Nov. 10; Serial No. 600,915, published July 14, 1953.
Electrical generators, television cameras, television camera control units, etc. General Precision Laboratory Incorporated. 582,259, Nov. 10; Serial No. 635,960, published July 14, 1953.
Electrical heating elements and electrical immersion water heaters. The Ambory Corporation. 582,275, Nov. 10; Serial No. 638,513, published July 14, 1953.
Electrical insulation. Raybestos-Manhattan, Inc. 582,218, Nov. 10; Serial No. 628,713, published Aug. 11, 1953.
Electrical plugs. Essex Wire Corporation. 582,167, Nov. 10; Serial No. 601,204, published July 14, 1953.
Electrical resistors. Ward Leonard Electric Company. 582,249, Nov. 10; Serial No. 634,503, published July 28, 1953.
Electrically driven egg cleaners, and egg candling lights. National Poultry Equipment Company. 582,163, Nov. 10; Serial No. 599,384, published July 28, 1953.
Electrically heated vulcanizing machines, apparatus, and parts therefor. Stenor Limited. 582,240, Nov. 10; Serial No. 632,452, published July 28, 1953.
Electrically heated vulcanizing machines, apparatus, and parts therefor. Stenor Limited. 582,241, Nov. 10; Serial No. 632,653, published Aug. 11, 1953.
Electronic filter and by-pass units. Globe-Union Inc. 582,272, Nov. 10; Serial No. 638,300, published July 14, 1953.
Electrostatic dust precipitating equipment. Collectron (Proprietary) Limited. 582,265, Nov. 10; Serial No. 636,877, published July 21, 1953.
Extruded plastic tubings, used as electrical insulation. L. Frank Markel & Sons. 582,151, Nov. 10; Serial No. 581,199, published July 28, 1953.
Headlight shields, Automobile. Peters & Russell, Inc. 582,227, Nov. 10; Serial No. 630,613, published July 28, 1953.
Ignition coils and ignition distributors. Mallory Electric Corporation. 582,309, Nov. 10; Serial No. 641,193, published July 14, 1953.
Lamps, Electric. D. C. Daubmeyer. 582,279, Nov. 10; Serial No. 638,901, published July 14, 1953.
Lighting assemblies, Electric. Joy Manufacturing Company. 582,186, Nov. 10; Serial No. 617,253, published Aug. 11, 1953.
Lighting fixtures and parts thereof, Electrical. Swivelier Company, Inc. 582,288, Nov. 10; Serial No. 639,596, published July 28, 1953.
Lighting fixtures, Electric. Kirkwood Industries, Inc. 582,239, Nov. 10; Serial No. 632,432, published Aug. 4, 1953.
Lighting fixtures, Electrical. Easy-Eye Lighting, Inc. 582,254, Nov. 10; Serial No. 634,683, published July 28, 1953.
Machines for duplicating written, printed, graphic or pictorial subject matter, etc. Times Facsimile Corporation. 582,181, Nov. 10; Serial No. 614,224, published Aug. 11, 1953.
Magnets, permanent magnets and magnetic traps, etc. D. E. Stem. 582,190, Nov. 10; Serial No. 619,315, published July 28, 1953.
Probes and brushes with ionizing means for causing the dissipation of static electric charges. Nuclear Products Company. 582,209, Nov. 10; Serial No. 625,862, published July 28, 1953.
Radio receivers; radio receiver accessories, radio transmitters and radio transmitter accessories. James Millen Manufacturing Company, Inc. 582,178, Nov. 10; Serial No. 611,034, published Aug. 11, 1953.
Radio speakers, Portable. Pillow-Pal Radios, Inc. 582,185, Nov. 10; Serial No. 616,867, published July 21, 1953.
Resistance welding tips or electrodes, Non-consumable, spot welding tips, seam welding wheels, etc. Weiger Weed & Company. 582,336, Nov. 10; Serial No. 642,916, published Aug. 11, 1953.
Separators for storage batteries. Gould-National Batteries, Inc. 582,242, Nov. 10; Serial No. 632,783, published July 28, 1953.
Switchboards and the sections therefor, Electrical sectional. General Electric Company. 582,198, Nov. 10; Serial No. 622,331, published Aug. 11, 1953.
Telephone, telegraph, and teletype apparatus. Maspeth Telephone & Radio Corporation. 582,269, Nov. 10; Serial No. 637,661, published July 14, 1953.
Television receiving sets. Kaye-Halbert Corporation. 582,280, Nov. 10; Serial No. 638,938, published July 14, 1953.
Tubes, Thermionic, and tube circuits; and traveling wave tubes and tube circuits. Varian Associates. 582,256, Nov. 10; Serial No. 635,205, published Aug. 4, 1953.
Vacuum cleaners, Electrically operated. R. H. Persons. 582,216, Nov. 10; Serial No. 628,050, published July 14, 1953.
Video receivers, radio receiving apparatus, electric phonograph apparatus, etc. Jackson Industries, Inc. 582,159, Nov. 10; Serial No. 594,841, published July 21, 1953.

CLASS 22

Covers for golf balls. The Worthington Ball Company. 582,351, Nov. 10; Serial No. 644,367, published Aug. 11, 1953.
Game, Educational. F. R. Freeman. 582,349, Nov. 10; Serial No. 644,026, published Aug. 4, 1953.
Playing cards. C. D. Cocanower. 582,276, Nov. 10; Serial No. 638,520, published Aug. 11, 1953.
Toy. Beepers Novelty Corp. 582,363, Nov. 10; Serial No. 632,645.
Ventriloquist dummies. Jimmy Nelson Enterprises, Inc. 582,284–5, Nov. 10; Serial Nos. 639,436–7, published Aug. 11, 1953.

CLASS 23

Automobile washing outfits, rotating automobile lifts, single post and two post automobile lifts, etc. Curtis Manufacturing Company. 582,247, Nov. 10; Serial No. 633,970, published June 9, 1953.
Beater blade. Jacobson Machine Works. 582,214, Nov. 10; Serial No. 627,067, published June 9, 1953.
Earth cutting and pulverizing discs. Borg-Warner Corporation. 582,281, Nov. 10; Serial No. 639,011, published June 9, 1953.
Gas diffusers. Infilco Incorporated. 582,244, Nov. 10; Serial No. 633,108, published June 9, 1953.
Gearing and transmissions and parts thereof. Continental Motors Corporation. 582,210, Nov. 10; Serial No. 626,152, published June 9, 1953.
Hydraulic pumps, motors and rams and parts thereof, etc. Keelavite Rotary Pumps & Motors Limited. 582,185, Nov. 10; Serial No. 616,233, published June 30, 1953.
Knives, Pocket. Camillus Cutlery Company. 582,282, Nov. 10; Serial No. 639,014, published June 9, 1953.
Machines and devices for applying insecticides. The Root Manufacturing Company. 393,306, Feb. 3, 1942. Republished Nov. 10.
Machines for the manufacture of flour, cornmeal, and feed, etc. Sprout, Waldron & Co. 91,615, re-renewed May 13, 1953. O. G. Nov. 10.
Piston pins. The Simplex Piston Ring Co. of America, Inc. 305,248, renewed Aug. 8, 1953. O. G. Nov. 10.
Printing presses, Web fed, rotary, offset. John Waldron Corporation. 582,315, Nov. 10; Serial No. 641,587, published June 9, 1953.
Shears, Tailor and household, folding shears, thread clipping shears, etc. Superior Sewing Machine and Supply Corp. 582,274, Nov. 10; Serial No. 638,501, published June 9, 1953.
Sprayers and parts thereof. The Hudson Manufacturing Company. 179,965, Feb. 19, 1924. Republished Nov. 10.
Sprayers and parts thereof. The Hudson Manufacturing Company. 181,403, Mar. 18, 1924. Republished Nov. 10.
Sprayers and parts thereof, Portable and hand-operated. The Hudson Manufacturing Company. 200,461, June 30, 1925. Republished Nov. 10.
Sprayers and parts thereof, Portable and hand-operated. Hudson Mfg. Company. 218,858, Oct. 5, 1926. Republished Nov. 10.
Sprayers and parts thereof, Portable and hand-operated. Hudson Mfg. Company. 219,937, Oct. 26, 1926. Republished Nov. 10.
Textile spinning machinery. Textile Engineering Corporation. 582,255, Nov. 10; Serial No. 635,070, published June 9, 1953.
Trowels. H. G. Zelinka. 582,217, Nov. 10; Serial No. 628,076, published June 9, 1953.
Turnstiles and like passage-controlling gates. Perey Manufacturing Company, Inc. 309,247, renewed Jan. 9, 1954. O. G. Nov. 10.
Twist drills, reamers, milling cutters, etc. Ampco Twist Drill Company. 419,078, Feb. 5, 1946. Republished Nov. 10.
Vending machine, Coffee. The Bert Mills Corporation. 582,169, Nov. 10; Serial No. 605,250, published July 7, 1953.
Vulcanizing machines. National Rubber Machinery Company. 582,271, Nov. 10; Serial No. 638,153, published June 9, 1953.

CLASS 26

Analyzing apparatus for polarographic analysis, Electrical. Leeds and Northrup Company. 582,330, Nov. 10; Serial No. 642,480, published Aug. 4, 1953.
Binoculars, Prism, opera, field, and marine glasses, and reading glasses. J. L. J. Valette. 582,180, Nov. 10; Serial No. 613,007, published Aug. 11, 1953.
Cameras. San-ei Sangyo Co., Ltd. 582,334, Nov. 10; Serial No. 642,773, published Aug. 11, 1953.
Catalyst heater for use with laboratory research apparatus. Burrell Corporation. 582,168, Nov. 10; Serial No. 603,473, published Aug. 11, 1953.
Drafting room equipment. Engineering Manufacturing Company. 582,233, Nov. 10; Serial No. 631,854, published Aug. 4, 1953.
Electric time switch units. D. W. Hendry. 582,170, Nov. 10; Serial No. 605,306, published Aug. 4, 1953.
Electrically operated indicating and controlling instruments, etc. Robertshaw-Fulton Controls Company. 582,245, Nov. 10; Serial No. 633,378, published Aug. 11, 1953.
Eyeglass frames. Zylite Products Co. Inc. 582,237, Nov. 10; Serial No. 632,191, published Aug. 4, 1953.
Instrument comprising a probe and electronic computer, etc. Rich-Roth Laboratories. 572,031, Mar. 17, 1953. New certificate. O. G. Nov. 10.
Machines for exposing and developing white prints, brown-line prints, etc. Paragon-Revolute Corporation. 582,339, Nov. 10; Serial No. 642,988, published Aug. 11, 1953.
Microscopes, Measuring, comparison microscopes, toolmakers' microscopes, etc. Ernst Leitz, G. m. b. H. 582,200, Nov. 10; Serial No. 623,574, published Aug. 4, 1953.
Microscopes, telescopes, chronographs, etc. Henry Wild Surveying Instruments Supply Company of America, Inc. 582,191, Nov. 10; Serial No. 620,705, published July 28, 1953.
Photographic papers and cloths, Sensitized. Keuffel & Esser Company. 582,329, Nov. 10; Serial No. 642,478, published Aug. 4, 1953.
Pressure, recording, and indicating gauges, controllers and meters and parts thereof. Industrial Instrument Corp. 582,234, Nov. 10; Serial No. 632,032, published Aug. 11, 1953.
Scales, Bathroom. Affiliated Retailers, Inc. 582,182, Nov. 10; Serial No. 614,680, published Aug. 11, 1953.
Spectacle frames. Victory Optical Manufacturing Co. 582,203, Nov. 10; Serial No. 624,114, published Aug. 4, 1953.
Target course generators, vector component integrators, analog computing devices, etc. The Reflectone Corporation. 582,266, Nov. 10; Serial No. 637,086, published Aug. 4, 1953.
Translucent to transparent fabrics for use in the manufacture of picture projection screens. Radiant Manufacturing Corporation. 582,236, Nov. 10; Serial No. 632,101, published Aug. 4, 1953.

CLASS 27

Watches. Hawthorne Watch Company. 582,359, Nov. 10; Serial No. 630,328.
Watches, watch movements, and parts thereof. Société Anonyme de la Fabrique d'horlogerie Le Coultre & Cie. 304,606–7, July 11, 1933. Republished Nov. 10.

CLASS 28

Bracelets. U. S. Diamond Ring Corp. 582,360, Nov. 10; Serial No. 630,816.

CLASS 29

Paint rollers and paint roller covers. E-Z Paintr Corporation. 582,171, Nov. 10; Serial No. 607,492, published Aug. 4, 1953.
Shirts and dress shirts, Men's sport. Rich Guild Shirt Company. 582,303, Nov. 10; Serial No. 640,807, published July 21, 1953.

CLASS 32

Seat cushions, chair cushions, camping and sleeping equipment, etc. The American Pad & Textile Company. 309,727, renewed Jan. 30, 1954. O. G. Nov. 10.

CLASS 34

Ventilators. W. F. Hirschman, Inc. 154,053, Apr. 4, 1922. Republished Nov. 10.

CLASS 35

Hose, Garden. Boston Woven Hose and Rubber Company. 582,354, Nov. 10; Serial No. 645,773, published Aug. 11, 1953
Protective sleeves, boots, and covers, which goods are sewn and otherwise fabricated from a neoprene base material, etc. A & A Manufacturing Company. 582,258, Nov. 10; Serial No. 635,866, published Aug. 4, 1953.
Tires, Non-metallic automobile. Western Auto Supply Company. 309,354, renewed Jan 9, 1954. O. G. Nov. 10.
Tires, Pneumatic rubber. Seiberling Rubber Company. 582,353, Nov. 10; Serial No. 645,265, published Aug. 11, 1953.
Tires, Rubber. Atlas Supply Company. 582,355, Nov. 10; Serial No. 645,945, published Aug. 11, 1953.

CLASS 37

Paper, Bond and ledger. Fox River Paper Corporation. 582,147, Nov. 10; Serial No. 565,766, published Nov. 13, 1951.
Paper, Partially printed marking. J. Bonanno. 582,366, Nov. 10; Serial No. 643,274.
Paper, Writing. E. E. Lloyd Paper Company. 304,765, July 18, 1933. Republished Nov. 10.
Paper, Writing and printing. Hampshire Paper Company. 291,297, Feb. 9, 1932. Republished Nov. 10.
Record book. Strahnier Corporation. 582,358, Nov. 10; Serial No. 623,262.

CLASS 38

Booklets, maps, and printed post cards. J. Randolph. 582,220, Nov. 10; Serial No. 629,216, published Aug. 4, 1953.
Column heading. New York Herald Tribune, Inc. 582,348, Nov. 10; Serial No. 643,603, published Aug. 11, 1953.
Greeting cards. Gospel Trumpet Company. 582,251, Nov. 10; Serial No. 634,590, published Aug. 4, 1953.

Magazine. The Parents' Institute, Inc. 582,290–1, Nov. 10; Serial Nos. 639,708–9, published Aug. 11, 1953.
Magazines. Installment Retailing, Inc. 582,267, Nov. 10; Serial No. 637,379, published Aug. 4, 1953.
Newsletter. L. H. Smith. 582,343, Nov. 10; Serial No. 643,257, published Aug. 18, 1953.
Periodical. Army and Navy Journal, Inc. 582,164, Nov. 10; Serial No. 599,481, published Aug. 4, 1953.
Photographs, reprints of photographs and pictures, and the like. J. L. Horne. 582,313, Nov. 10; Serial No. 641,508, published Aug. 4, 1953.
Pictorial post cards, Colored, and colored pictures. Dexter Press, Inc. 582,317, Nov. 10; Serial No. 641,672, published Aug. 4, 1953.
Printed calling cards. Will Ecker & Co. 582,252, Nov. 10; Serial No. 634,637, published Aug. 4, 1953.
Publications. Radio-Television Manufacturers Association. 582,175, Nov. 10; Serial No. 610,187, published Aug. 4, 1953.
Publications, Periodical. Advertising Publications, Incorporated. 582,347, Nov. 10; Serial No. 643,527, published Aug. 11, 1953.
Publications, Printed. Charleston Electrical Supply Company. 582,344, Nov. 10; Serial No. 643,289, published Aug. 4, 1953.

CLASS 39

Apparel, Protective. D. Rittoff. 582,223, Nov. 10; Serial No. 629,915, published July 21, 1953.
Bathing suits, bathing trunks, shirts, etc., Men's, women's, boys', and girls'. Forrest Knitting Mills. 582,157, Nov. 10; Serial No. 592,561, published July 21, 1953.
Belts. F. Perry. 582,213, Nov. 10; Serial No. 626,955, published Aug. 4, 1953.
Braces. Hickok Manufacturing Co. Inc. 582,145, Nov. 10; Serial No. 549,251, published July 14, 1953.
Caps and hats, Men's and boys'. Franklin & Lasoff, Inc. 582,299, Nov. 10; Serial No. 640,451, published Aug. 4, 1953.
Caps, Fibrous molded. Hawley Products Company. 582,158, Nov. 10; Serial No. 593,349, published Aug. 4, 1953.
Clothing, Athletic, hunting and fishing clothing. Adolph Blaich, Incorporated. 582,270, Nov. 10; Serial No. 638,059, published July 21, 1953.
Clothing, Boys' outer. K. C. Boyswear Mfg. Co. 582,289, Nov. 10; Serial No. 639,688, published Aug. 4, 1953.
Clothing, Men's. Freeman Clothing Company. 582,215, Nov. 10; Serial No. 627,430, published July 14, 1953.
Clothing, Men's and boys'. E. Sawitsky & Bro. Inc. 582,228, Nov. 10; Serial No. 630,734, published Jan. 20, 1953.
Coats, leggings, and snow suits, Children's. Philadelphia Girl Coat Company. 582,222, Nov. 10; Serial No. 629,513, published July 21, 1953.
Coats, overcoats, storm coats, etc., Men's top. Riki of California, Inc. 582,273, Nov. 10; Serial No. 638,313, published July 28, 1953.
Coats, suits, sport coats and slacks, Men's top. Don Stevens Classics, Inc. 582,292, Nov. 10; Serial No. 640,037, published Aug. 4, 1953.
Collars. The Ward-Stilson Company. 582,207, Nov. 10; Serial No. 625,506, published July 14, 1953.
Diapers, Textile. Chicopee Manufacturing Corporation. 385,620, Mar. 11, 1941. Amended. O. G. Nov. 10.
Dresses, suits, sun suits, etc., Girls'. Cater Frock Company. 443,998, May 23, 1950. Republished Nov. 10.
Hats. Wallach's, Inc. 582,268, Nov. 10; Serial No. 637,468, published July 14, 1953.
Hats, Men's fur felt. MacLachlan Hats, Incorporated. 582,174, Nov. 10; Serial No. 608,425, published Aug. 11, 1953.
Hats, Men's, ladies' and children's. Texas Harvest Hat Company. 582,195, Nov. 10; Serial No. 622,182, published Aug. 4, 1953.
Hats, suits, sport coats, etc., Men's and boys'. J. Mayer. 582,262, Nov. 10; Serial No. 636,532, published July 21, 1953.
Hosiery, Ladies'. Ladd Hosiery Mills, Inc. 582,324, Nov. 10; Serial No. 642,231, published Aug. 11, 1953.
Hosiery, Ladies' and children's, and men's hosiery. Reingold Hosiery Co. 307,173, renewed Oct. 17, 1953. O. G. Nov. 10.
Hosiery, Men's and women's. The F. & R. Lazarus & Co. 90,645, Mar. 11, 1913. Amended. O. G. Nov. 10.
Hosiery, Women's. Munsingwear, Inc. 582,325, Nov. 10; Serial No. 642,296, published Aug. 11, 1953.
Hosiery, Women's and girls'. Diamond Hosiery Corp. 582,204, Nov. 10; Serial No. 624,634, published July 28, 1953.
Jackets and sport jackets, Men's. The Johnnor Company. 582,318, Nov. 10; Serial No. 641,682, published July 28, 1953.
Overcoats, coats, raincoats, etc., Men's and boys'. Lansburgh & Bro. 582,301, Nov. 10; Serial No. 640,572, published Aug. 4, 1953.
Pajamas, Men's and boys'. Pioneer Suspender Company. 582,189, Nov. 10; Serial No. 618,713, published Apr. 22, 1952.
Panties, panty girdles, girdles, etc. Chevette, Inc. 377,758, May 14, 1940. Republished Nov. 10.
Pants and outer shirts, Men's. Sweet-Orr & Co., Inc. 582,283, Nov. 10; Serial No. 639,294, published Aug. 4, 1953.
Pants, work shirts, overalls, etc., Men's and boys' work. Carwood Manufacturing Company. 582,226, Nov. 10; Serial No. 630,577, published Aug. 4, 1953.
Scarves. Scarves by Vera, Inc. 582,224, Nov. 10; Serial No. 630,031, published July 21, 1953.
Shirts, Men's and boys' dress. The Willow Shirt Corporation. 582,264, Nov. 10; Serial No. 636,832, published July 14, 1953.
Shirts, Men's negligee. Wilson Brothers. 308,923, renewed Dec. 26, 1953. O. G. Nov. 10.
Shirts, Outer and under. B. Ames. 582,231, Nov. 10; Serial No. 631,775, published Aug. 4, 1953.
Shirts, Polo, cardigans, shorts, etc. United Hosiery Mills Corporation. 582,321, Nov. 10; Serial No. 642,055, published July 28, 1953.
Shirts, sport jackets and sport slacks, Men's and boys' sport. Bedford Shirt Corp. 582,305, Nov. 10; Serial No. 641,001, published July 21, 1953.
Slacks, Men's. Day's Tailor-D Clothing, Inc. 582,310, Nov. 10; Serial No. 641,277, published Aug. 4, 1953.
Socks. Dwight S. Williams Company, Inc. 582,320, Nov. 10; Serial No. 642,001, published Aug. 11, 1953.
Sportwear, Women's knitted. Caltex Sportswear, Inc. 306,400, renewed Sept. 19, 1953. O. G. Nov. 10.
Suits and coats, Men's. Federated Department Stores, Inc. 582,322, Nov. 10; Serial No. 642,071, published July 28, 1953.
Suits, topcoats, overcoats, etc., Men's and young men's. Timely Clothes, Inc. 582,153, Nov. 10; Serial No. 583,455, published Aug. 4, 1953.
Sweaters, Men's and women's, and men's and children's sport shirts and leisure jackets, etc. W. F. Paine, Ltd. 582,232, Nov. 10; Serial No. 631,839, published Aug. 4, 1953.
Uniforms, caps, capes, etc., Nurses' and maids'. B. Cohen. 335,906, June 16, 1936. Republished Nov. 10.
Wearing apparel, Men's and boys'. J. Diamond. 389,392, Aug. 5, 1941. Republished Nov. 10.

CLASS 42

Curtains; curtain materials; sheets, etc. Will Ross, Inc. 307,620, renewed Oct. 31, 1953. O. G. Nov. 10.
Fabric, Metal insulated lining. Newport Finishing Corporation. 582,319, Nov. 10; Serial No. 641,792, published Aug. 4, 1953.
Fabric, Non-woven. Steralon Products, Incorporated. 582,293–5, Nov. 10; Serial Nos. 640,084–6, published Aug. 4, 1953.
Fabric, Rayon. Rosecrest Manufacturing Company. 582,333, Nov. 10; Serial No. 642,693, published Aug. 4, 1953
Fabrics-in-the-piece. Grandma Moses Properties, Inc. 582,312, Nov. 10; Serial No. 641,447, published Aug. 4, 1953.
Fabrics, Textile. Brand & Oppenheimer Incorporated. 582,229, Nov. 10; Serial No. 630,983, published Aug. 4, 1953.
Fabrics, Textile. Ehniger Mills, Inc. 582,225, Nov. 10; Serial No. 630,317, published Aug. 4, 1953.
Fabrics, Textile. Katz, Jacobson & Paris, Inc. 582,346, Nov. 10; Serial No. 643,427, published Aug. 11, 1953.
Fabrics, Textile. Lincoln Fabrics Co. Inc. 582,327, Nov. 10; Serial No. 642,360, published Aug. 4, 1953.
Fabrics, Wool. Leeds Associates Inc. 582,342, Nov. 10; Serial No. 643,105, published Aug. 4, 1953.
Piece goods. Robert Barclay & Company Limited. 582,296, Nov. 10; Serial No. 640,142, published Aug. 4, 1953
Piece goods. Goodall-Sanford, Inc. 582,287, Nov. 10; Serial No. 639,562, published Aug. 4, 1953.
Piece goods. M. Hausman & Sons, Inc. 582,350, Nov. 10; Serial No. 644,113, published Aug. 4, 1953.
Piece goods. Siegel Fabrics, Inc. 582,323, Nov. 10; Serial No. 642,172, published Aug. 4, 1953.
Piece goods, Cotton. Wm. L. Barrell Co. Inc. 308,261, renewed Nov. 28, 1953. O. G. Nov. 10.
Piece goods, Rayon. Industrial Rayon Corporation. 305,226, renewed Aug. 8, 1953. O. G. Nov. 10.
Piece goods, Woolen. Forstmann Woolen Co. 582,331, Nov. 10; Serial No. 642,539, published Aug. 4, 1953.
Rugs, Cotton, and carpeting. E. T. Barwick. 582,338, Nov. 10; Serial No. 642,930, published Aug. 4, 1953.
Tablecloths, Plastic. A. J. Siris Products Corp. 582,302, Nov. 10; Serial No. 640,698, published Aug. 4, 1953.
Textile ribbons and textile fabrics. Societe Rhodiaceta. 582,250, Nov. 10; Serial No. 634,509, published Aug. 11, 1953.
Webbing, Woven elastic. United Elastic Corporation. 582,340, Nov. 10; Serial No. 643,054, published Aug. 4, 1953.

CLASS 44

Filling and cementing material for dental use. Lee S. Smith & Son Manufacturing Company. 582,277, Nov. 10; Serial No. 638,880, published Aug. 4, 1953.
Sterilizing bags, Paper, and paper tubing specially designed to contain catheters and surgical instruments. Will Ross, Inc. 582,263, Nov. 10; Serial No. 636,573, published Aug. 11, 1953.

CLASS 45

Beverages, Carbonated nonalcoholic, noncereal, maltless. Clicquot Club Company. 309,223, renewed Jan. 9, 1954. O. G. Nov. 10.

Fruit juice, Non-alcoholic, maltless. Hawaiian Canneries Company, Limited. 321,595, Feb. 5, 1935. Republished Nov. 10.
Sirups, concentrates, etc., Fruit flavored non-alcoholic. Dell Products Corporation. 417,449, Oct. 30, 1945. Republished Nov. 10.

CLASS 46

Bakery product. Frank G. Shattuck Co. 306,568, renewed Sept. 26, 1953. O. G. Nov. 10.
Bread. Interstate Bakeries Corporation. 582,221, Nov. 10; Serial No. 629,303, published Aug. 4, 1953.
Canned cat food. Doyle Packing Company. 582,367, Nov. 10; Serial No. 643,411.
Canned fruit, canned vegetables, olive oil, etc. Comly Flanigen Company. 305,238, renewed Aug. 8, 1953. O. G. Nov. 10.
Canned fruits. The J. K. Armsby Co. 93,806, re-renewed Oct. 21, 1953. O. G. Nov. 10.
Canned fruits, dried fruits and raisins. The J. K. Armsby Co. 93,410, re-renewed Sept. 16, 1953. O. G. Nov. 10.
Canned fruits, dried fruits, and raisins. The J. K. Armsby Company. 94,581, re-renewed Dec. 23, 1953. O. G. Nov. 10.
Canned vegetables, canned pork and beans, and canned salmon. E. F. Brewster. 91,845, re-renewed June 3, 1953. O. G. Nov. 10.
Canned tuna fish. California Marine Curing & Packing Co. 582,211, Nov. 10; Serial No. 626,558, published July 14, 1953.
Canned tuna fish. The French Sardine Company of California. 582,212, Nov. 10; Serial No. 626,565, published Apr. 21, 1953.
Capsicum, Sweet, fresh tomatoes, canned tomato puree, etc. F. C. T. Marin. 582,156, Nov. 10; Serial No. 591,828, published July 14, 1953.
Chewing gum. Wm. Wrigley, Jr., Company. 304,150, June 20, 1933. Republished Nov. 10.
Coffee, tea, fresh eggs, etc. Piggly Wiggly Corporation. 582,187, Nov. 10; Serial No. 618,006, published Aug. 11, 1953.
Concentrated emulsion of citrous flavors such as lemon, lime, and orange for flavoring baked goods, etc. Dell Products Corporation. 415,214, July 31, 1945. Republished Nov. 10.
Edible white oil. Carmel Oil Co. 300,404, Jan. 17, 1933. Republished Nov. 10.
Feed, Baby livestock. Uncle Johnny Mills. 582,199, Nov. 10; Serial No. 623,217, published July 1, 1952.
Flour, Wheat. The Colorado Milling & Elevator Co. 582,146, Nov. 10; Serial No. 552,123, published Aug. 4, 1953.
Food emulsifier. Better Brands Food Products. 582,297, Nov. 10; Serial No. 640,323, published Aug. 11, 1953.
Fruit, Fresh citrus, and watermelons. Zellwood Fruit Distributors, Inc. 582,177, Nov. 10; Serial No. 610,535, published July 14, 1953.
Fruits, Dried. The J. K. Armsby Co. 94,858, re-renewed Jan. 13, 1954. O. G. Nov. 10.
Oleaginous compound constituting a shortening and a substitute for lard. South Texas Cotton Oil Company. 426,103, Dec. 17, 1946. Republished Nov. 10.
Perfumed lozenges. Thos. Kerfoot & Co. 37,298, Nov. 12, 1901. Republished Nov. 10.
Potato chips. B. Stahmer. 582,149, Nov. 10; Serial No. 567,886, published Aug. 4, 1953.
Potato chips. B. Stahmer. 582,160, Nov. 10; Serial No. 596,813, published July 28, 1953.
Potato chips. B. Stahmer. 582,161, Nov. 10; Serial No. 596,877, published July 28, 1953.
Potato salad, macaroni salad, vegetable salad, etc. Lottie Kemberling Dutch Pantry. 582,150, Nov. 10; Serial No. 580,247, published June 30, 1953.
Salad and cooking oils. South Texas Cotton Oil Company. 420,307, Apr. 2, 1946. Republished Nov. 10.
Seasoning, Coconut oil popcorn. Vegetable Oil Products Company, Inc. 582,311, Nov. 10; Serial No. 641,358, published Aug. 4, 1953.
Shortening, Bulk vegetable. The Procter & Gamble Company. 308,251, renewed Nov. 28, 1953. O. G. Nov. 10.
Turkeys, Eviscerated oven-ready stuffed and unstuffed. F. C. Adams. 582,365, Nov. 10; Serial No. 643,258.

CLASS 48

Ales. Tollemache's Breweries Limited. 307,496, renewed Oct. 24, 1953. O. G. Nov. 10.

CLASS 50

Awnings, banners, flags, etc. The Dickey Manufacturing Co. 582,193, Nov. 10; Serial No. 621,547, published July 14, 1953.
Awnings, banners, flags, etc. The Dickey Manufacturing Co. 582,194, Nov. 10; Serial No. 621,548, published July 21, 1953.
Hog waterers. H. D. Hudson Manufacturing Company. 398,261, Oct. 20, 1942. Republished Nov. 10.
Strips of sponge rubber. Studio Guild Products Company. 582,188, Nov. 10; Serial No. 618,517, published July 28, 1953.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. Bourjois, Inc. 309,501, renewed Jan. 16, 1954. O. G. Nov. 10.
Lipstick. Dana Perfumes, Inc. 582,356, Nov. 10; Serial No. 612,963.
Perfume. Chanel, Inc. 309,503, renewed Jan. 16, 1954. O. G. Nov. 10.
Perfumes. Veolay, Inc. 302,934, renewed May 2, 1953. O. G. Nov. 10.

CLASS 52

Cleaning compound. Quick Charge, Inc. 582,238, Nov. 10; Serial No. 632,387, published Aug. 4, 1953.
Soap. David Brown & Son Limited. 58,438, Dec. 18, 1906. Corrected. O. G. Nov. 10. (Formerly Class 4.)

CLASS 100

Furnishing to its members information relative to governmental laws and regulations, etc. National Stationery and Office Equipment Association. 582,369, Nov. 10; Serial No. 630,851.

CLASS 103

Refinishing and regraining furniture. Nu-Grain Corporation. 582,368, Nov. 10; Serial No. 583,716.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 10TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Belpedio, Jobby, Bridgeport, Conn. Crown cap removing and retaining implement. Re. 23,731, Nov. 10.
Cleveland, Donald M., Geneva, N. Y., assignor, by mesne assignments, to Sundstrand Machine Tool Co., Rockford, Ill. Work holder. Re. 23,732, Nov. 10.
Farris, Riley F., Houston, Tex., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Fracturing formations in wells. Re. 23,733, Nov. 10.
Harrison, Meyer: *See*—
Korman, Samuel B., and Harrison.
Koolvent Metal Awning Corporation of America, assignee: *See*—
Korman, Samuel B., and Harrison.
Korman, Samuel B., and M. Harrison, assignors, by mesne assignments, to Koolvent Metal Awning Corporation of America, Pittsburgh, Pa. Canopy construction. Re. 23,734, Nov. 10.
Olson, Raymond G., Niles, assignor of one-half to K. T. Snow, Oak Park, Ill. Grid mounting for color television picture tubes. Re. 23,735, Nov. 10.
Snow, Kenneth T., assignee: *See*—
Olson, Raymond G.
Stanolind Oil and Gas Company, assignee: *See*—
Farris, Riley F.
Sundstrand Machine Tool Co., assignee: *See*—
Cleveland, Donald M.

LIST OF PLANT PATENTEES

Byrum, Roy L., assignor to Joseph H. Hill Company, Richmond, Ind. Rose plant. 1,227, Nov. 10.
Hill, Joseph H., Company, assignee: *See*—
Byrum, Roy L.
Krebs, Alfred, Montebello, assignor of one-half to E. E. Marsh, Pasadena, Calif. Rose plant. 1,226, Nov. 10.
Marsh, Edward E., assignee: *See*—
Krebs, Alfred.
Peterson, Howard C., Reedley, Calif. Peach tree. 1,228, Nov. 10.

LIST OF DESIGN PATENTEES

Adler, Samuel E., assignor to Admiral Corporation, Chicago, Ill. Radio-phonograph cabinet panel. 170,789, Nov. 10.
Admiral Corporation, assignee: *See*—
Adler, Samuel E.
American Radiator & Standard Sanitary Corporation, assignee: *See*—
Trout, Harry R., and Hill.
Bertoia, Harry, Pennsburg, Pa., assignor to Knoll Associates Inc., New York, N. Y. Chair. 170,790, Nov. 10.
Bertoia, Harry, Pennsburg, Pa., assignor to Knoll Associates Inc., New York, N. Y. Chair. 170,791, Nov. 10.
Boehm, Roland F., Short Hills, assignor to Gemex Company, Union, N. J. Expansible wrist watch bracelet 170,792, Nov. 10.
Boucher et Cie, Marcel, assignee: *See*—
Semensohn, Raymonde.
Bunny Bear Inc., assignee: *See*—
Mover, Elliot S.
Callahan, Albert B., Jr.: *See*—
Hines, Vernon C., and Callahan
Chrysler Corporation, assignee: *See*—
Pilkey, Harold W.
Voss, Clifford C.
Coro, Inc., assignee: *See*—
Katz, Adolph.
De Fazio, Fulvio, Cleveland, Ohio. Adjustable handle for tools. 170,793, Nov. 10.
De Kolb, Eric, assignor to Helena Rubinstein, Inc., New York, N. Y. Combined bottle and display carton therefor. 170,794, Nov. 10
Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Plaque. 170,795, Nov. 10
Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Combined coin holder and clip. 170,796, Nov. 10.
Del Mas, Christy M., New York, N. Y. Rosary bead. 170,797, Nov. 10.
Design Center Inc., assignee: *See*—
Pfohl, Louis H.
Dundon, Burton W. and L. O., Kalamazoo, Mich. Toolholder. 170,798, Nov. 10.
Dundon, Leo O.: *See*—
Dundon, Burton W. and L. O.
Evans Case Co., assignee: *See*—
Speers, Samuel F.
Gemex Company, assignee: *See*—
Boehm, Roland F.
General Electric Company, assignee: *See*—
Sandin, Ray C.
Glorklint, Astrid, Los Angeles, Calif. Christmas tree ornament. 170,799. Nov. 10.
Grace, Michael P., assignee: *See*—
Del Mas, Christy M.
Greer, Ray F., San Diego, Calif. Shirt. 170,800, Nov. 10.
Griffiths, Clifford B., Sutton Coldfield, assignor to Porterprint Limited, Leeds, England. Set of playing cards. 170,801, Nov. 10.
Handler, Elliot, Los Angeles, Calif. Automotive toy. 170,802, Nov. 10.
Henfield, Martin, Long Island City, N. Y. Wall plaque or similar article. 170,803, Nov. 10.
Hill Frederick M.: *See*—
Trout, Harry R., and Hill.
Hines, Vernon C., and A. B. Callahan, Jr., assignors to The International Manufacturing Co., Denver, Colo. Portable heater. 170,804, Nov. 10.
Hummert, Robert H., assignor to Standard-Thomson Corporation, Dayton, Ohio. Window-actuator. 170,805, Nov. 10.
Inman, Walter A., assignor to Waukegan Baby Seat Co. Inc., Waukegan, Ill. Corner toilet seat or similar article. 170,806, Nov. 10
International Manufacturing Co., The, assignee: *See*—
Hines, Vernon C., and Callahan.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,807, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,808, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,809, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,810, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,811, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,812, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,813, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,814, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,815, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like 170,816, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,817, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y Earring or the like. 170,818, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,819, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,820, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,821, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,822, Nov. 10.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,823, Nov. 10.
Knitcraft Foundations, Inc., assignee: *See*—
Melnick, Louis.
Knoll Associates Inc., assignee: *See*—
Bertoia, Harry.
Kundikoff, George J., San Pedro, Calif. Throwing dagger. 170,824, Nov. 10.

Kwikset Locks, Inc., assignee: *See*—
Schoepe, Adolf.
Lovasz, Elmer S., Chicago, Ill. Combined razor and shaving cream dispenser. 170,825, Nov. 10.
McLean, Robert C., Washington, D. C. Candleholder. 170,827, Nov. 10.
Melnick, Louis, assignor to Knitcraft Foundations, Inc., New York, N. Y. Girdle. 170,826, Nov. 10.
Morris, Alice M., Beverly Hills, and F. L. Schaeffer, assignors to Bert M. Morris Company, Los Angeles, Calif. Inkwell. 170,828, Nov. 10.
Morris, Bert M. Company, assignee: *See*—
Morris, Alice M., and Schaeffer.
Mover, Eliot S., Brighton, assignor to Bunny Bear Inc., Everett, Mass. Plastic sheeting or the like. 170,829, Nov. 10.
Parrish, Montez, Blountstown, Fla. Combined vase and fruit bowl. 170,830, Nov. 10.
Pfohl, Louis H., Forest Hills, assignor to Design Center Inc., Long Island City, N. Y. Helmet. 170,831, Nov. 10.
Pilkey, Harold W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Automobile stone shield. 170,832, Nov. 10.
Porterprint Limited, assignee: *See*—
Griffiths, Clifford B.
Rebora, Stephen F., Chicago, Ill. Birdhouse. 170,833, Nov. 10.
Regant, Humbert R., Willoughby, Ohio. Vehicle for golfers and the like. 170,834, Nov. 10.
Rubinstein, Helena, Inc., assignee: *See*—
De Kolb, Eric.
Sandlin, Ray C., Northbrook, Ill., assignor to General Electric Company. Fryer unit or the like. 170,835, Nov. 10.
Schaeffer, Fred L.: *See*—
Morris, Alice M., and Schaeffer.
Schoepe, Adolf, Fullerton, assignor to Kwikset Locks, Inc., Anaheim, Calif. Instrument for locating holes for door locks. 170,836, Nov. 10.
Semensohn, Raymonde, assignor to Marcel Boucher et Cie, New York, N. Y. Necklace or similar article. 170,837, Nov. 10.
Spears, Samuel F., Providence, R. I., assignor to Evans Case Co., North Attleboro, Mass. Table lighter. 170,838, Nov. 10.
Standard-Thomson Corporation, assignee: *See*—
Hummert, Robert H.
Trout, Harry R., and F. M. Hill, assignors to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa. Base cabinet. 170,839, Nov. 10.
Tupper, Earl S., Upton, Mass. Shaker. 170,840, Nov. 10.
Vigon, Jule, Los Angeles, Calif. Table lamp. 170,841, Nov. 10.
Voss, Clifford C., Clawson, assignor to Chrysler Corporation, Highland Park, Mich. Automobile stone shield. 170,842, Nov. 10.
Waukegan Baby Seat Co. Inc., assignee: *See*—
Inman, Walter A.
White, Charles S., Dearborn, Mich. Awning or similar article. 170,843, Nov. 10.
Wiswell, Grant A., Burlingame, Calif. Traffic bar. 170,844, Nov. 10.
Wolf, Samuel, Brooklyn, N. Y. Cigarette holder 170,845, Nov. 10.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 10TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A and T Development Corporation, assignee: *See*—
Avril, Arthur C.
Abels, Harvey E.: *See*—
Long, Charles F., and Abels.
Abrams, Stanley T.: *See*—
Stross, Fred H., Abrams, and Peterson.
Ackley, Richard E., Westmont, N. J., assignor to Henry Disston and Sons, Inc., Philadelphia, Pa. Saw chain. 2,658,537, Nov. 10.
Acosta, Ivan J., assignor to Crane Co., Chicago, Ill. Valve actuating and latching mechanism. 2,658,717, Nov. 10.
Adams, John R., Jr., Summit, and V. S. Salvin, Irvington, N. J., assignors to Celanese Corporation of America, New York, N. Y. Anthraquinone dyestuffs. 2,658,898, Nov. 10.
Adams, Simpson J., Abbeville, S. C. Stop motion for roving frames. 2,658,326, Nov. 10.
Aeroquip Corporation, assignee: *See*—
Kaiser, Rudolf.
Aertker, John J., Jr., assignee: *See*—
Trapani, August G., Jr.
Aetna-Standard Engineering Company, The, assignee: *See*—
Matteson, Elwin A.
Agrashell, Inc., assignee: *See*—
Perry, Joseph C.
Agule, George J., Stamford, assignor to Machlett Laboratories, Incorporated, Springdale, Conn. Filament structure. 2,659,023, Nov. 10.
Ajdukovich, George, St. Louis, Mo. Hernial truss 2,658,509, Nov. 10
Aktiebolaget Svetsmekano, assignee: *See*—
Slettengren, Anders I. K.
Aktiengesellschaft Fuer Technische Studien, assignee: *See*—
Keller, Curt.
Albee, Arthur C., Hollywood, and H. C. Ward, Los Angeles, Calif., assignors to Radio Corporation of America. Magnetic sound system. 2,658,951, Nov. 10.
Alderfer, Sterling W., assignor of three-tenths to E. D. Andrews, Akron, Ohio. Apparatus for the manufacture of foamed products. 2,658,736, Nov. 10.
Aldino, Charles J., Franklin Square, and J. J. Ryan, New York, N. Y. Apparatus for finishing gears. 2,658,259, Nov. 10.
Alexander, Lowell M., and E. H. Bladh, assignors to Nutone, Inc., Cincinnati, Ohio. Double-acting solenoid for chime signals. 2,659,074, Nov. 10.
Alford, Andrew, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Transformer for connecting a wave guide to a coaxial line. 2,659,054, Nov. 10.
Alhéritière, Louis, Beau-Soleil, Melle, assignor to Les Usines de Melle (Societe Anonyme), Saint-Leger-les-Melle, France. Manufacturing butyraldehyde. 2,658,921, Nov. 10.
Allais, Julien M. A., Boulogne-sur-Seine, France. Disk slide rule with decimal point indicator. 2,658,671, Nov. 10.
Allen, Edwin L., and A. R. de Vito, Cleveland Heights, Ohio, and H. B. Muster, Bluffton, Ind., assignors to R. I. Schonitzer, Cleveland, Ohio. Lock means for door control mechanism. 2,658,375, Nov. 10.
Allen, Edwin L., Cleveland Heights, assignor, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Door control mechanism. 2,658,781, Nov. 10.
Allen, Edwin L., Cleveland Heights, assignor, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Lock means for door control mechanism. 2,658,782, Nov. 10.
Allen, Edwin L., Cleveland Heights, assignor, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Door control mechanism. 2,658,783, Nov. 10.
Allen, Frank R., Roxbury, Mass. Portable brick wall. 2,658,379, Nov. 10.
Allen, Richard C., Carthage, Mo., and J. Millman, Brookline, Mass., assignor to the United States of America as represented by the Secretary of War. Multiple channel radio system. 2,659,081, Nov. 10.
Alletto, Alexander J., Chicago, Ill. Adjustable overload spring device. 2,658,749, Nov. 10.
Alliance Ware, Inc., assignee: *See*—
Bowden, William H.
Allied Chemical & Dye Corporation, assignee: *See*—
Fooshee, Irb H.
Ogilvie, James.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Halter, Allan C.
Kenney, Clarence E.
Knudsen, Thomas C.
Altenpohl, Paul J., Philadelphia, Pa. Poultry shackle. 2,658,236, Nov. 10.
Alter, Fritz: *See*—
Rutledge, Carl M., and Alter.
Altorfer Bros. Company, assignee: *See*—
Castricone, John A.
Alumni Research Foundation of The College of Medical Evangelists, assignee: *See*—
Neufeld, Alonzo J.
Ambrose, Henry A., Penn Township, Allegheny County, and O. L. Brandes, Gibsonia, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Cutting oil composition. 2,658,870, Nov. 10.
American Can Company, assignee: *See*—
Pechy, William.
Reese, Garland W.
Whitman, Elmore F.
American Cyanamid Company, assignee: *See*—
Ebel, Robert H.
Kaiser, Donald W., and Hechenbleikner.
Kaiser, Donald W., and Roemer.
Mackay, Johnstone S.
Marsh, Nat H.
Merrill, Wallace D.
Paden, Joseph H., and Mackay.
Roemer, John J., and Kaiser.
Vingee, Raymond A., and Lento.
American Cystoscope Makers, Inc., assignee: *See*—
Galler, William.
American Machine and Metals, Inc., assignee: *See*—
Harland, Philip W., and Johnson.
American Machinery Company, assignee: *See*—
Barowsky, Nathan.
American Seating Company, assignee: *See*—
Nordmark, Walter E.
Nordmark, Walter E., and Huhta.
American Steel Box Corporation, assignee: *See*—
Rutledge, Carl M., and Alter.
American Tool Works Co., The, assignee: *See*—
Hoelscher, William G.
American Viscose Corporation, assignee: *See*—
Brillhart, William O.
Wymbs, Roy P.
Ammann, Herman L., Madison, N. J. Apparatus for producing carbon black. 2,658,821, Nov. 10.
Amundsen, Roy E., Portland, Oreg. Self-contained drafting instrument. 2,658,279, Nov. 10.
Anaconda Wire and Cable Company, assignee: *See*—
Greenfield, Eugene W., and Connell.
Andersen, Charles M., Los Angeles, assignor to F. R. Honn, Arcadia, Calif. Machine for attaching artificial stems to blossoms. 2,658,296, Nov. 10.
Andersen, Charles M., assignor to F. R. Honn, Los Angeles, Calif. Blossom stemming machine. 2,658,536, Nov. 10.
Andersen Laboratories, Inc., assignee: *See*—
Johnson, Sven J.
Anderson, Elmer G., Portland, Oreg. Self-protecting valve. 2,658,711, Nov. 10.
Anderson, Emil W., and V. D. Anderson, Rugby, N. Dak. Booster battery carting and emergency servicing equipment. 2,659,042, Nov. 10.
Anderson, John F., Oakland, Calif. No-draft, arm signaling vehicle window. 2,658,791, Nov. 10.
Anderson, Virgil D.: *See*—
Anderson, Emil W., and V. D. Anderson.
Andre Rubber Company Limited, assignee: *See*—
Clements, Henry.
Andress, Harry J., Jr., Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Fuel oil composition. 2,658,823, Nov. 10.
Andrews, Edward D., assignee: *See*—
Alderfer, Sterling W.
Andrews, Michael Z., Chula Vista, Calif. Tool handle connection. 2,658,804, Nov. 10.
Androsiglio, Lucio, Hoboken, N. J. Folding chair. 2,658,562, Nov. 10.
Anemostat Corporation of America, assignee: *See*—
Lange, Adolf H.
Anker-Werke, A. G., assignee: *See*—
Aurbach, Kurt, and Schaper.
Apex Electrical Manufacturing Company, The, trustee, assignee: *See*—
Kirby, James B.

Aquino, Salvatore A., Teaneck, N. J., and C. D. Welshenbach, assignors to The Hinde & Dauch Paper Company, Sandusky, Ohio. Paperboard box of the suitcase type. 2,658,661, Nov. 10.

Archambault, Jean M., Asnieres, France. Fluid pressure engaged and released clutch. 2,658,596, Nov. 10.

Arma Corporation, assignee: *See*—
Davis, Arthur P., and Macomber.

Armour and Company, assignee: *See*—
Marcoux, Melvin W.

Armstrong-Blum Manufacturing Company, assignee: *See*—
Heuneman, Fred.

Armstrong-Carson Manufacturing Company, assignee: *See*—
Armstrong, Hugh.

Armstrong, Hugh, assignor to Armstrong-Carson Manufacturing Company, Maryville, Mo. Grass seed harvester. 2,658,321, Nov. 10.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Chubb, Melvin F.
De Rosa, John A., and Snell.
Honey, John F.
Tonks, Lewi, and Hull.

Arnold, George B.: *See*—
Pevere, Ernest F., Hess, and Arnold.

Arnold, George B., Glenham, J. K. Truitt, and H. V. Hess, Beacon, assignors to The Texas Company, New York, N. Y. Forming urea complexes. 2,658,887, Nov. 10.

Arnolt Corporation, assignee: *See*—
Harrison, Charles W.

Aronson, Theodore F.: *See*—
Halahan, John, Aronson, and Lyon.

Arps, Jan J., Tulsa, Okla. Continuous directional drilling. 2,658,284, Nov. 10.

Arps, Jan J., Tulsa, Okla. Warning system for controlled rotary drilling. 2,658,724, Nov. 10.

Arps, Jan J., Tulsa, Okla. Signal transmission system for use in logging drill hole formations. 2,658,725, Nov. 10.

Arps, Jan J., Tulsa, Okla. Geophysical exploration using radioactive material. 2,659,046, Nov. 10.

Arsenault, George R., Webster, Mass. Tie rack. 2,658,626, Nov. 10.

ArtKraft Manufacturing Corporation, assignee: *See*—
Money, Roland H.

Ashton, Albert A., Houston, Tex., assignor to Emsco Manufacturing Company, Los Angeles, Calif. Air brake for drawworks. 2,658,589, Nov. 10.

Atchason, Stanley, Somerville, Mass., assignor to The Gillette Company. Process and apparatus for manufacturing articles from strip stock. 2,658,695, Nov. 10.

Atlantic Refining Company, The, assignee: *See*—
Clarke, Edgar W.
Clarke, Edgar W., Doan, and Keenan.
Davis, Louis F.

Atlas Powder Company, assignee: *See*—
Lew, Bakk W.

Aue, Johann, Vienna, Austria. Closet. 2,658,203, Nov. 10.

Aurbach, Kurt, and H. Schaper, assignors to Anker-Werke, A. G., Bielefeld, Germany. Indicating apparatus for cash registers or other business machines. 2,658,668, Nov. 10.

Aurora Equipment Company, assignee: *See*—
Hilgen, Theodore J.

Automatic Poultry Feeder Company, assignee: *See*—
De Witt, Richard A.

Automotive Spring Corporation, assignee: *See*—
Heuer, Lawrence H.

Avril, Arthur C., Cincinnati, assignor to A and T Development Corporation, St. Bernard, Ohio. Form for molding openings in concrete structures. 2,658,252, Nov. 10.

Ayers, William T. H., Indianapolis, Ind. Screw feeder and holder. 2,658,199, Nov. 10.

Babcock & Wilcox Company, The, assignee: *See*—
Ebersole, George B.

Bahnson, Agnew H., Jr., Winston-Salem, N. C. Apparatus for cleaning filter screens. 2,658,621, Nov. 10.

Bailey, Art, Philadelphia, Pa. Golf ball retriever. 2,658,637, Nov. 10.

Bailey Meter Company, assignee: *See*—
Luppold, George E., Jr., and Shannon.
Shannon, Jack F.

Bailly, Randolph M.: *See*—
Perry, Stephen F., and Bailly.

Ballard, Seaver A., and R. R. Whetstone, Orinda, assignors to Shell Development Company, Emeryville, Calif. 2-alkylphenyl-3,4,5,6-tetrahydropyrimidines. 2,658,895, Nov. 10.

Banister, Guy, and L. S. Burns, assignors to Barber-Greene Company, Aurora, Ill. Hydraulic drive system. 2,658,342, Nov. 10.

Bankauf, William F., East Paterson, N. J., assignor to Hewitt-Robins Incorporated, Buffalo, N. Y. Return idler for cord conveyer belts. 2,658,606, Nov. 10.

Bannister, Bryant, Pittsburgh, Pa., assignor to United States Steel Corporation. Pipe cooling arrangement for high-speed continuous mills. 2,658,257, Nov. 10.

Bantar, Incorporated, assignee: *See*—
McBride, John W.

Barber-Greene Company, assignee: *See*—
Banister, Guy, and Burns.

Barfod, Frederik: *See*—
Wirth, Emil O., and Barfod.

Barker, Lawrence J., Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif. Heat treatment of aluminum alloys. 2,658,845, Nov. 10.

Barker, Paul L., Detroit, Mich. Spring chair construction. 2,658,555, Nov. 10.

Barowsky, Nathan Holyoke, assignor to American Machinery Company, Willimansett, Mass. Clamping device for irregularly shaped workpieces. 2,658,415, Nov. 10.

Barry-Wehmiller Machinery Company, assignee: *See*—
Wehmiller, Frederick W.

Bartow Beacons Inc., assignee: *See*—
Bartow, John B.

Bartow, John B., assignor to Bartow Beacons Inc., Bine Bell, Pa. Ray directing device. 2,659,017, Nov. 10.

Basabe, Nicolás L., Cadiz, Spain. Two-stroke internal-combustion engine. 2,658,487, Nov. 10.

Bascom, Henry, St. Louis, Mo. Shoeshine stand. 2,658,225, Nov. 10.

Bashor, Harold T., and C. T. Lutz, Columbus, Ohio. Sealing apparatus for open-topped liquid receptacles. 2,658,377, Nov. 10.

Bath, Wilmer H.: *See*—
Davis, Walter C., and Bath.

Batten, Percy H., trustee, assignee: *See*—
Mudersbach, Ernst H.

Baume, Frank J., Bakersfield, Calif. Mechanical auto park. 2,658,632, Nov. 10.

Baumgartner, John R., Milwaukee, Wis. Paper decurling apparatus. 2,658,432, Nov. 10.

Bayles, Donald C., Adams, assignor of forty-nine per cent to R. H. Soucek, Friendship, Wis. Children's hamper with steps combined. 2,658,640, Nov. 10.

Bazzoli, Leo, Brockway, Pa. Welt shoe having a removable welt. 2,658,287, Nov. 10.

Beaman, Ralph G., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Acrylonitrile polymers dissolved in solvent mixtures comprising nitromethane and water. 2,658,879, Nov. 10.

Beauchamp, Wilfred A., Chicago, Ill., assignor to Youngstown Steel Door Company, Cleveland, Ohio. Laterally movable door. 2,658,243, Nov. 10.

Beebe, Nathan S., Kansas City, Mo. Armrest for motor vehicles. 2,658,559, Nov. 10.

Begun, Semi J., Cleveland Heights, assignor, by mesne assignments, to Clevite Corporation, Cleveland, Ohio. Magnetic record transducing system and guide structure. 2,658,762, Nov. 10.

Begun, Semi J., assignor, by mesne assignments, to Clevite Corporation, Cleveland, Ohio. Magnetic recording and reproducing. 2,658,956, Nov. 10.

Behrens, Herbert C., assignor to Diebold, Incorporated, Canton, Ohio. Combination lock. 2,658,374, Nov. 10.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Carbrey, Robert L., Cutler, and Feldman.
Darlington, Sidney.
Darlington, Sidney, and Lundstrom.
Doherty, William H.
Holbrook, Bernard D., and Lundstrom.
Holbrook, Bernard D., Lundstrom, and Malthaner.
Legg, Victor E., and Owens.
Lundstrom, Alexis A.
Lundstrom, Alexis A., and Malthaner.

Benak, George R., assignor to R. T. Moloney, Chicago, Ill. Shiftable ball rolling board and control therefor. 2,658,755, Nov. 10.

Bender, Harry, Lawrence, assignor to Home Curtain Corp., Far Rockaway, N. Y. Apparatus for making pleated curtains. 2,658,551, Nov. 10.

Bendersky, Sadie, South Orange, N. J. Armrest for beds. 2,658,211, Nov. 10.

Bendix Aviation Corporation, assignee: *See*—
Clayton, Joseph F.
Halpin, Eugene P.
Johnson, Thomas W.
Livers, Carlos B.
MacNeil, Charles I.
Sagady, Calman S.
Spengler, Walter J.
Wirth, Emil O., and Barfod.

Benfield, Adalbert E., Sudbury, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Self-synchronous moving target indication system. 2,659,080, Nov. 10.

Berezny, Mischa N.: *See*—
Shusett, David R., and Berezny.

Berglund, Sven G.: *See*—
Karp, Edward C. and Berglund.

Bernier, Jean, and J. Brossart, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil. Velocity modulated tube of the reflex type. 2,659,024, Nov. 10.

Bess, Leon, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Transmission line delay network. 2,659,052, Nov. 10.

Bevan, Lloyd D.: *See*—
Chapman, James E., and Bevan.

Bevis, William A., Pinner, and P. Cusack, Chiswick, London, assignors to C. A. V. Limited, London, England. Means for supplying auxiliary fuel to internal-combustion engines. 2,658,490, Nov. 10.

Bianco, Peter J., assignor to General Motors Corporation, Detroit, Mich. Spring winding machine. 2,658,267, Nov. 10.

Blackman, Seymour N., Teaneck, assignor to Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J. Marking hypodermic syringes. 2,658,837, Nov. 10.

Bladh, Elmer H.: *See*—
Alexander, Lowell M., and Baldh.

Bledsoe, Ophard, Akron, Ohio. Apparatus for applying paste to wallpaper. 2,658,471, Nov. 10.

Block & Anderson Limited, assignee: *See*—
Brown, Roland, and Watton.

Bloxham, Ralph H., near Theodore, Ala. Ice-cream stick dispensing machine. 2,658,652, Nov. 10.

Bokhove, Karel H. J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Magnetron of the cavity resonator type. 2,659,031, Nov. 10.

Boldebuck, Edith M., J. R. Elliott, and G. F. Roedel, Schenectady, N. Y., assignors to General Electric Company. Preparation of diborane. 2,658,815, Nov. 10.

Boldebuck, Edith M., J. R. Elliott, and G. F. Roedel, Schenectady, N. Y., assignors to General Electric Company. Pressure method of preparing diborane. 2,658,816, Nov. 10.

Boling, Cecil, assignor to The Heat-X-Changer Co., Inc., Brewster, N. Y. Refrigeration system with multiple fluid heat transfer. 2,658,358, Nov. 10.

Boller, Henry A., Pontiac, Mich., assignor to Carter Carburetor Corporation, St. Louis, Mo. Accelerating pump control for carburetors. 2,658,733, Nov. 10.

Bonanno, Joseph L., Madison, and A. D. Gash, Jr., Irvington, N. J., assignors to The Lionel Corporation, New York, N. Y. Toy car loader. 2,658,602, Nov. 10.

Bonsall, William, Burnley, assignor to Joseph Lucas Limited, Birmingham, England. Sheet metal combustion chamber, flame tube, and the like. 2,658,339, Nov. 10.

Borg, George W., Corporation, The, assignee: *See*—
Johnston, Samuel A., and Wickham.
Lee, William M.
Richardson, Rodney G., and Fink.

Borg-Warner Corporation, assignee: *See*—
Harrison, William V.
Kelbel, Donald W.
Orr, Palmer, and Swift.
Polomski, John B., Jr.

Bossard, François J.: *See*—
Brandenberger, Jacques E., and Bossard.

Bourgonnier, Claude, M. Jouguet, and A. Bunodiere, Flers, France, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Capacitative potentiometer comprising at least two series-connected capacities. 2,659,039, Nov. 10.

Bourne, William G., Acton, London, assignor to Rotax Limited, London, England. Electric switch. 2,658,962, Nov. 10.

Bowden, William H., assignor to Alliance Ware, Inc., Alliance, Ohio. Drainboard. 2,658,205, Nov. 10.

Bowditch, Hoel L., assignor to The Foxboro Company, Foxboro, Mass. Adjustable index arm for measuring instruments. 2,658,469, Nov. 10.

Bowen, Alfred J., Beloit, Wis. Grinding machine. 2,658,313, Nov. 10.

Bowers, Charles E., Sr., Moylan, assignor to The Fibre Metal Products Company, Chester, Pa. Adjustable stop for pivotally mounted head protective equipment. 2,658,200, Nov. 10.

Bowman, Hyman D., Raleigh, N. C. Washing machine. 2,658,371, Nov. 10.

Bowser, Inc., assignee: *See*—
Talmage, Homer R.

Boye Needle Company, The, assignee: *See*—
Carlson, Gustav A.

Boykin, Robert O.: *See*—
Osborne, Raymond G., and Boykin.

Boyle, James C., assignee: *See*—
Medlar, Lewis A., and Naab.

Brace, George A., Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio. Electric toaster. 2,658,442, Nov. 10.

Brace, George A., Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio. Electric toaster. 2,658,443, Nov. 10.

Bradley, Robert L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Cord clamp for shoe upper lacing machines. 2,658,214, Nov. 10.

Brainard, Frank S., Jr., assignee: *See*—
Kountnik, Ludwig W.

Bramhall, Fay B., Ridgewood, E. L. Newell, and P. H. Wells, Chatham, N. J., and C. H. Cramer, Great Neck, assignors to The Western Union Telegraph Company, New York, N. Y. Repeater switching system. 2,658,945, Nov. 10.

Brandenberger, Jacques E., Neuilly-sur-Seine, and F. J. Bossard, Paris, France. Salt dentifrice. 2,658,851, Nov. 10.

Brandes, Oliver L.: *See*—
Ambrose, Henry A., and Brandes.

Branchler, Chandis H.: *See*—
Brauchler, Charles A. and C. H.

Brauchler, Charles A. and C. H., Canton, Ohio. Making propeller blades. 2,658,265, Nov. 10.

Braun, Karl J., Glenbrook, Conn., assignor to Remington Rand Inc., New York, N. Y. Positive cam operated print mechanism. 2,658,447, Nov. 10.

Braun, Philip N., assignor to Textile Marking Machine Co. Inc., Syracuse, N. Y. Combination tag and textile printing machine. 2,658,448, Nov. 10.

Brice, Thomas J.: *See*—
Simons, Joseph H., Brice, and Pearlson.

Brillhart, William O., Fredericksburg, Va., assignor to American Viscose Corporation, Wilmington, Del. Rendering regenerated cellulose resistant to sticking and article produced. 2,658,843, Nov. 10.

Brink, Raymond J., St. Paul, and C. W. Tunstead, Minneapolis, assignors to Brinktun Company, St. Paul, Minn. Outboard motor stand. 2,658,703, Nov. 10.

Brinktun Company, assignee: *See*—
Brink, Raymond J., and Tunstead.

Bristol Aeroplane Company Limited, The, assignee: *See*—
Marchant, Francis C. I.

Broady, Paul A., Greenville, S. C. Pan type oil burner. 2,658,568, Nov. 10.

Bromberg, Robert, and W. L. Martin, Los Angeles, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission. X-ray densitomer. 2,659,012, Nov. 10.

Bronish, Arthur H., assignor of fifty per cent to C. C. Holland, Van Nuys, Calif. Safety razor with extra blade. 2,658,271, Nov. 10.

Brooks, Richard E., and M. A. Smook, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of chlorosulfonated polymers. 2,658,883, Nov. 10.

Brossart, Jean: *See*—
Bernier, Jean, and Brossart.

Brost, Andrew J., Chicago, Ill. Horse racing game apparatus. 2,658,760, Nov. 10.

Brown, Boveri & Cie., Aktiengesellschaft, assignee: *See*—
Katzenberger, Bernhard.

Brown, Edgar A., Aldan, Pa., assignor to Burroughs Adding Machine Company, Detroit, Mich. Mechanical bistable device. 2,658,972, Nov. 10.

Brown, Robert H., Pulaski, Tenn. Torque converter. 2,658,594, Nov. 10.

Brown, Roger W., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Mechanism for adjustably correlating tool feed with rate of cutting of machine tools. 2,659,020, Nov. 10.

Brown, Roland, London, and L. H. N. Watton, New Malden, assignors to Block & Anderson Limited, London, England. Sheet delivery arrangement for hectographic copying machines. 2,658,450, Nov. 10.

Brown, Roland K., Dalhart, Tex. Vacuum cleaner cart. 2,658,224, Nov. 10.

Bruder Eisert Aktiengesellschaft, assignee: *See*—
Kohn, Maximilian.

Bryn Mawr Smokers Novelty Co., assignee: *See*—
Siegel, Morris B.

Budnick, Frank O., Chicago, Ill. Making handbags and products. 2,658,543, Nov. 10.

Buffalo Electro-Chemical Company, Inc., assignee: *See*—
Shanley, Edward S., and Kauffmann.

Bunodiere, Andre: *See*—
Bourgonnier, Claude, Jouguet, and Bunodiere.

Burgess-Manning Company, assignee: *See*—
Chipley, Alfred S.

Burns, Leonard S.: *See*—
Banister, Guy, and Burns.

Burroughs Adding Machine Company, assignee: *See*—
Brown, Edgar A.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—
Hitchings, George H., and Falco.

Butsch, William G., Fort Thomas, Ky. Roof construction for trucks or trailers. 2,658,794, Nov. 10.

Byrne, John F., Wellesley Hills, Mass., assignor to the United States of America as represented by the Secretary of War. Single side band jamming system. 2,658,992, Nov. 10.

C. A. V. Limited, assignee: *See*—
Bevis, William A., and Cusack.
Nicolls, Wilfrid E. W.

Cabrera R, Gabriel, Caracas, Venezuela. Copying apparatus. 2,658,449, Nov. 10.

Cadorette, George, assignor to Draper Corporation, Hopedale, Mass. Shuttle ejector. 2,658,531, Nov. 10.

Caldemeyer, Daniel F., and H. M. Quakenbush, assignors to National Furniture Manufacturing Company, Inc., Evansville, Ind. Chair construction. 2,658,561, Nov. 10.

Camp, Samuel C.: *See*—
Stevens, Donald R., and Camp.

Canfora, Arthur E., Brooklyn, N. Y., assignor to Radio Corporation of America. Reproducer for magnetically recorded signals. 2,658,950, Nov. 10.

Caparone, Michael J., Arcadia, and C. M. Vaughn, Los Angeles, Calif., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa. Combined thermostat and automatic pilot control. 2,658,686, Nov. 10.

Carborundum Company, The, assignee: *See*—
Nicholson, Kenneth C.

Carbrey, Robert L., Summit, C. C. Cutler, Gillette, and C. B. H. Feldman, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse regenerator. 2,658,997, Nov. 10.

Carey, Frederick H., assignor to Dowty Equipment Limited, Cheltenham, England. Liquid fuel supply system for internal-combustion turbines with afterburners. 2,658,330, Nov. 10.

Carlson, Gustaf W., Woburn, Mass. Folding chair. 2,658,558, Nov. 10.

Carlson, Gustav A., Des Plaines, assignor to The Boye Needle Company, Chicago, Ill. Tubular knitting device. 2,658,364, Nov. 10.

Carnegie Institution of Washington, assignee: *See*— Cook, Paul M.

Carr, L. J., & Co., assignee: *See*— Sears, Joseph N.

Carreiro, Eugenio C. Cambridge, Mass. Fountain-type surface washing and wiping sponge. 2,658,218, Nov. 10.

Carson, Robert H., Arlington, Mass., assignor to the United States of America as represented by the Executive Secretary of the Office of Scientific Research and Development. Tape recorder feed mechanism. 2,658,955, Nov. 10.

Carter Carburetor Corporation, assignee: *See*— Boller, Henry A. Henning, Otto.

Casals Duran, Cristobal, assignor to Telares Casals Duran, S. A., Sabadell, Spain. Shuttle brake mechanism for looms. 2,658,532, Nov. 10.

Casals Duran, Telares, S. A., assignee: *See*— Casals Duran, Cristobal.

Case, J. I., Company, assignee: *See*— Hansen, Charles W. Russell, Stanley D.

Casella, Horacio R., Buenos Aires, Argentina. Receptacle and support therefor. 2,658,642, Nov. 10.

Casey, Robert T., Bristol, Conn., assignor, by mesne assignments, to General Electric Company. Electric circuit breaker. 2,659,973, Nov. 10.

Caston, Ralph H.: *See*— Zabel, Lowell W., Schmidt, and Caston.

Castricone, John A., assignor to Altorfer Bros. Company, Peoria, Ill. Automatic ironing shoe release. 2,658,291, Nov. 10.

Cawthon, Frank W., Weirsdale, Fla. Armrest. 2,685,560, Nov. 10.

Celanese Corporation of America, assignee: *See*— Adams, John R., Jr., and Salvin, Swerdloff, Jack, and McFarlane.

Cenker, Moses, Wyandotte, and W. K. Langdon, Grosse Ile, assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich. Higher alkylphenyl nitrogen compounds. 2,658,925, Nov. 10.

Central Commercial Company, assignee: *See*— Teetor, Paul, Grove, and Heller.

Centre National de la Recherche Scientifique, assignee: *See*— Epelboin, Israël.

Chance, A. B., Company, assignee: *See*— Hollander, William L.

Chapman, Edward S., Dagenham Dock, assignor to The Chloride Electrical Storage Company Limited, Clifton Junction, England. Electrical storage battery. 2,658,937, Nov. 10.

Chapman, James E., Los Angeles, and L. D. Bevan, Van Nuys, assignors to The Garrett Corporation, Los Angeles, Calif. Non jamming stop for linear actuators. 2,658,407, Nov. 10.

Chapman, Laura L., Patten, Maine. Dish mop. 2,658,220, Nov. 10.

Chappell, Donald E., Detroit, Mich. Linear scale with micrometer attachment. 2,658,281, Nov. 10.

Chase-Shawmut Company, The, assignee: *See*— Kozacka, Frederick J.

Chefford Master Manufacturing Co. Inc., assignee: *See*— Porter, Howard C.

Chemical Foundation, Incorporated, The, assignee: *See*— Miller, Benjamin.

Chemloch Corporation, assignee: *See*— Pattilloch, Donald K.

Chempatents, Inc., assignee: *See*— Landau, Ralph.

Cherry, Robert H., Glenside, A. J. Williams, Jr., and R. E. Tarpley, Philadelphia, and W. McAdam, Ambler, assignors to Leeds and Northrup Company, Philadelphia, Pa. Current-measuring system. 2,659,047, Nov. 10.

Chicago Aerial Survey Company, assignee: *See*— Miles, John R.

Chicago Pneumatic Tool Company, assignee: *See*— Fischer, Howard R., and Roberts.

Chipley, Alfred S., Mundelein, assignor to Burgess-Manning Company, Libertyville, Ill. Freezing point tester. 2,658,383, Nov. 10.

Chloride Electrical Storage Company Limited, The, assignee: *See*— Chapman, Edward S.

Christensen, John W., Cedar City, Utah, J. V. Granger, Cambridge, Mass., and J. J. Wedel, Seattle, Wash., assignors to the United States of America as represented by the Secretary of War. Autodyne converter. 2,658,995, Nov. 10.

Christiance, Harry C., West Brooklyn, Ill. Cam and lever actuating mechanism. 2,658,396, Nov. 10.

Chubb, Melvin F., Joplin, Mo., assignor to the United States of America as represented by the Secretary of the Army. Cuprous chloride electrodes. 2,658,935, Nov. 10.

Ciba Pharmaceutical Products, Inc., assignee: *See*— Hoffmann, Karl, and Spillmann.

Ciccone, Nino, New York, assignor of one-half to S. Lusick, Brooklyn, N. Y. Measuring block device for tool lathes. 2,658,283, Nov. 10.

Cincinnati Mine Machinery Co., The, assignee: *See*— Dann, John D.

Cislak, Francis E., assignor to Reilly Tar and Chemical Corporation, Indianapolis, Ind. 4-octyl- and nonylpyridines for controlling fungous attacks in organic materials. 2,658,850, Nov. 10.

Cissell, W. M., Mfg. Company, Incorporated, assignee: *See*— Richterkessing, Frank H., and Cissell.

Cissell, William M.: *See*— Richterkessing, Frank H., and Cissell.

Claff, Clarence L., and C. A. Moeller, assignors to Norfolk Paper Company, Inc., Randolph, Mass. Box setting-up machine. 2,658,433, Nov. 10.

Clark Equipment Company, assignee: *See*— Marco, George P.

Clark Manufacturing Company, The, assignee: *See*— Goff, William S.

Clarke, Edgar W., Laurel Springs, N. J., R. B. Doan, Drexel Hill, and V. J. Keenan, Ardmore, assignors to The Atlantic Refining Company, Philadelphia, Pa. Plant defoliant. 2,658,826, Nov. 10.

Clarke, Edgar W., Laurel Springs, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa. Solvent fractionation of wax-containing mixtures. 2,658,853, Nov. 10.

Clarke, John S., and A. Huyton, Burnley, assignors to Joseph Lucas Limited, Birmingham, England. Combustion chamber for prime movers. 2,658,337, Nov. 10.

Claude, André, Paris, France. Device for the ignition and the operation of a gas filled electric discharge apparatus. 2,659,037, Nov. 10.

Clauser, Raymond M., and P. A. Petersen, Fort Worth, Tex. Tube type boiler for steamships. 2,658,988, Nov. 10.

Clay, John P., and H. B. Elkins, U. S. Army, assignors to the United States of America as represented by the Secretary of War. Smoke agent. 2,658,874, Nov. 10.

Clayton, Everett H. W., Long Island City, N. Y. Bass drum with rhythm beaters and pedal. 2,658,421, Nov. 10.

Clayton, Joseph F., assignor to Bendix Aviation Corporation, Detroit, Mich. Pulse generator. 2,659,019, Nov. 10.

Clements, Henry, assignor to Andre Rubber Company Limited, Surbiton, England. Rubber roller. 2,658,262, Nov. 10.

Clevite Corporation, assignee: *See*— Begun, Semi J. Harsant, Henry J., and Deucher.

Clogston, Albert M., Melrose, and W. V. Smith, Medford, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Tunable magnetron circuit. 2,659,029, Nov. 10.

Clough, Chauncey C.: *See* Clough, Jerome L. and C. C.

Clough, Jerome L. and C. C., Milwaukee, Wis. Automatic selection control for drum-type storage files. 2,658,513, Nov. 10.

Coales, John F., Radlett, W. S. Elliott, Boreham Wood, N. D. Hill, Watford, S. E. Hersom, Thorpe Bay, and J. Tindale, Edgware, England. Data transmission system for digital calculating machines or the like. 2,659,072, Nov. 10

Coates, Vincent J., South Norwalk, assignor to The Perkin-Elmer Corporation, Norwalk, Conn. Differential knob device. 2,658,395, Nov 10.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Flow metering device. 2,658,522, Nov. 10.

Cochrane, Andrew R., trustee, assignee: *See*— Field, Lloyd M.

Coffeen, William W., Union, and H. W. Richter, Rahway, N. J., assignors to Metal & Thermit Corporation, New York, N. Y. Bismuth stannate and compositions employing same. 2,658,833, Nov. 10.

Coffing, Fredrick W., assignor to Coffing Hoist Company, Danville, Ill. Tensioning and pulling device. 2,658,720, Nov. 10.

Coffing, Fredrick W., assignor to Coffing Hoist Company, Danville, Ill. Automatic hoist and binder. 2,658,721, Nov. 10.

Coffing, Fredrick W., assignor to Coffing Hoist Company, Danville, Ill. Automatic hoist and binder. 2,658,722, Nov. 10.

Coffing, Fredrick W., assignor to Coffing Hoist Company, Danville, Ill. Full automatic hoist. 2,658,723, Nov. 10.

Coffing Hoist Company, assignee: *See*— Coffing, Fredrick W.

Cohane, David B., Flushing, N. Y. Multiple electric plug tap with means to secure additional taps thereto. 2,659,060, Nov. 10.

Cohen, Charles A., Roselle Park, and C. W. Muessig, Roselle, N. J., assignors to Standard Oil Development Company. Treatment of copolymer olefins for oxonation. 2,658,932, Nov. 10.

Cohen, Henry, Cove, near Farnborough, assignor to Power Jets (Research & Development) Limited, London, England. Apparatus for igniting fuel in fast-moving hot gas streams. 2,658,340, Nov. 10.

Cohn, Seymour B., Cambridge, Mass., assignor to United States of America as represented by the Secretary of War. Dielectric wave guide to coaxial line junction. 2,659,055, Nov. 10.

Cole, E. K., Limited, assignee: *See*— Collins, Bernard F., Cox, and Martin.

Colgate-Palmolive-Peet Company, assignee: *See*— Krems, Irving J.

Collins, Bernard F., Eastwood, V. J. Cox, Malmesbury, and A. W. Martin, Thundersley, assignors to E. K. Cole Limited, Southend-on-Sea, England. Radio ground control equipment for aircraft. 2,659,075, Nov. 10.

Collins Radio Company, assignee: *See*— Salisbury, Winfield W.

Collinson, Eric S., Higher Brunshaw, Burnley, assignor to Joseph Lucas Limited, Birmingham, England. Liquid fuel injection nozzle. 2,658,800, Nov. 10.

Collison, Roy G., Los Angeles, Calif. Ozone generator. 2,658,868, Nov. 10.

Colonna, Angelo, Philadelphia, Pa. Detachable leaf hinge. 2,658,232, Nov. 10.

Compagnie Auxiliaire des Mines, assignee: *See*— Robillard, André A.

Compagnie Generale de Telegraphie Sans Fil, assignee: *See*— Bernier, Jean, and Brossart.

Cone Automatic Machine Company Inc., assignee: *See*— Brown, Roger W.

Connell, Amos C.: *See*— Greenfield, Eugene W., and Connell.

Continental Specialties Company, Ltd., assignee: *See*— Soule, Arthur H.

Control Instrument Company, Inc., assignee: *See*— Lehde, Henry C.

Cook, Paul M., Palo Alto, Calif., assignor to Carnegie Institution of Washington, Washington, D. C. Apparatus and process for the production of photosynthetic microorganisms, particularly algae. 2,658,310, Nov. 10.

Cooper, Roy L., assignor of one-half to A. Larsen, Waterman, Ill. Antibacklash fishing reel. 2,658,696, Nov. 10.

Cordell, Ralph L., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Seismometer. 2,659,065, Nov. 10.

Corning Glass Works, assignee: *See*— Southworth, George H.

Cottrell, Herbert T., Vancouver, British Columbia, Canada. Joint for steering parts on automobiles having independent front wheel suspension. 2,658,772, Nov. 10.

Courtaulds Limited, assignee: *See*— Givens, John H., Rose, and Whyte.

Courtney, William F., New York, N. Y. Foldable exercising and resting table. 2,658,754, Nov. 10.

Cowles Company, The, assignee: *See*— Cowles, Edwin.

Cowles, Edwin, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J. Machine for pulping paper stock. 2,658,426, Nov. 10.

Cox, Victor J.: *See*— Collins, Bernard F., Cox, and Martin.

Cramer, Clifford H.: *See*— Bramhall, Fay B., Newell, Wells, and Cramer.

Crandall, Howard W., Berkeley, Calif., and D. C. Stewart, Park Forest, Ill., assignors to the United States of America as represented by the United States Atomic Energy Commission. Separation and purification of alkyl phosphoric acids. 2,658,909, Nov. 10.

Crane Co., assignee: *See*— Acosta, Ivan J.

Crawford, Franzo H., Williamstown, Mass., assignor to the United States of America as represented by the Secretary of War. Tunable magnetron. 2,659,032, Nov. 10.

Crehan, William J.: *See*— Talney, Paul, and Crehan.

Cremer, Gottfried M. J., Frechen, near Cologne, Germany. Process and apparatus for the drying of ceramic goods. 2,658,285, Nov. 10.

Crich, Frank O., Toronto, Ontario, Canada. Pot lifter 2,658,788, Nov. 10.

Crowther, Edmond C., Philadelphia, Pa., assignor to Illinois Tool Works, Chicago, Ill. Nut and retainer assembly. 2,658,546, Nov. 10.

Croxall, Willard J., Elkhart, Ind., and C. Lo, assignors to Rohm & Haas Company, Philadelphia, Pa. 5-alkoxymethylene rhodanines. 2,658,890, Nov. 10.

Cunningham, Frederic, Jr., Belmar, N. J., assignor to the United States of America as represented by the Secretary of War. Moving target radar system. 2,659,079, Nov. 10.

Cuppett, Charles H., Packanack, N. J., and J. Taylor, Bronxville, assignors to Hydraulic Molds Corporation, New York, N. Y. Injection molding apparatus. 2,658,237, Nov. 10.

Curtis Mfg. Company, assignee: *See*— Hecker, Harvard K.

Curtiss-Wright Corporation, assignee: *See*— Osborne, Wilbur W.

Cusack, Patrick: *See*— Bevis, William A., and Cusack.

Cutler, Cassius C.: *See*— Carbrey, Robert L., Cutler, and Feldman.

Cutler-Hammer, Inc., assignee: *See*— Meuer, George J.

D'Alelio, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc. Method and apparatus for storing and advancing thread. 2,658,255, Nov. 10.

D'Alelio, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc. Polymeric compositions from a chlorophenol, an aldehyde, and a chloroepoxyalkane. 2,658,884, Nov. 10.

D'Alelio, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc. Polymeric compositions from a hydrocarbon substituted phenol, an aldehyde, and a chloroepoxyalkane. 2,658,885, Nov. 10.

Dall, Edward D., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Deck latch. 2,658,778, Nov. 10.

Dall, Edward D., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Latch mechanism. 2,658,779, Nov. 10.

Dall, Edward D., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Door latch. 2,658,780, Nov. 10.

Dalzell, Vernon W., Alliance, Ohio. Computing instrument for making elbows. 2,658,672, Nov. 10.

D'Amore, Michael J., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Manual operator for power-operated valves. 2,658,524, Nov. 10.

Dana Corporation, assignee: *See*— Thelander, W. Vincent.

Danish, Abe A.: *See*— Hyman, Julius, and Danish.

Dann, John D., assignor to The Cincinnati Mine Machinery Co., Cincinnati, Ohio. Bit and bit clamp. 2,658,740, Nov. 10.

Darlington, Sidney, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ballistic computer having range extending adjustable scale factor means. 2,658,673, Nov. 10.

Darlington, Sidney, New York, N. Y., and A. A. Lundstrom, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Artillery computer having deck tilt and gun parallax correction factors. 2,658,674, Nov. 10.

Darlington, Sidney, New York, N. Y., and A. A. Lundstrom, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Tilt corrector for fire control computers. 2,658,675, Nov. 10.

Dart, Jack C., Moylan, assignor to Houdry Process Corporation, Philadelphia, Pa. Catalytic conversion of hydrocarbons. 2,658,859, Nov. 10.

Bath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway car trucks. 2,658,747, Nov. 10.

Davies, Joseph R., Chicago, Ill. Method and apparatus for cooling buffs and polishing wheels. 2,658,316, Nov. 10.

Davis, Arthur P., Stamford, Conn., and J. K. Macomber, Rockville Centre, N. Y., assignors to Arma Corporation. Gun fire control apparatus. 2,658,277, Nov. 10.

Davis, Clade D., Bisbee, Ariz. Safety device for high chairs or the like. 2,658,564, Nov. 10.

Davis, Doyle M., Corryton, and J. C. Hart, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission. Badge meter. 2,659,013, Nov. 10.

Davis, Louis F., Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa. Electrically operated gas lift valve. 2,658,460, Nov. 10.

Davis, Walter C., Tredyffrin Township, Chester County, and W. H. Bath, West Conshohocken, Pa., assignors to The Sharples Corporation. Separation of liquid from solids. 2,658,620, Nov. 10.

Dawbarn, Waring L., Winchester, assignor to Arthur D. Little, Inc., Cambridge, Mass. Controlling pressure between bells of blast furnaces. 2,658,636, Nov. 10.

Dawson, John H., assignor of one-half of H. C. McCabe, Rockville, Md. Airplane toy. 2,658,753, Nov. 10

Day, Dewey D., assignor to The Murray Company of Texas, Inc., Dallas, Tex. Cotton gin. 2,658,239, Nov. 10.

Debs, Victor S., New York, N. Y. Multiple precision instrument and tool. 2,658,278, Nov. 10.

De Kam, William G., assignor to Kent-Moore Organization, Inc., Detroit, Mich. Flywheel turning tool. 2,658,417, Nov. 10.

De Laval Steam Turbine Company, assignee: *See*— Seinfeld, Ludwik R.

Del Valle, Guillermo A., Merchantville, and A. S. Jones, Palmyra, N. J., assignors to Radio Corporation of America. Motion-picture film handling apparatus. 2,658,954, Nov. 10.

De Ment, Jack, Portland, Oreg. Dental cement. 2,658,832, Nov. 10.

Dennison & Sons, assignee: *See*— Kraemer, Fred J., Jr.

Denton, William I.: *See*— Lukasiewicz, Sigmund J., Denton, and Plank.

De Rosa, John A., Brooklyn, and C. A. Snell, New York, N. Y., assignors to the United States of America as represented by the Secretary of the Army. Soldering flux. 2,658,846, Nov. 10.

Deucher, Theodore F.: *See*— Harsant, Henry J., and Deucher.

Deutch, Siegfried : *See*—
Ferda, Julius, and Deutsch.

De Vito, Angelo R. : *See*—
Allen, Edwin L., de Vito, and Muster.

De Waide, Hal, Seattle, Wash. Engine for transmitting forces developed therein. 2,658,486, Nov. 10.

De Witt, Richard A., assignor to Automatic Poultry Feeder Company, Zeeland, Mich. Conveyer. 2,658,605, Nov. 10.

De Ybarrondo, Vincent C., San Fernando, Calif. Gas-liquid contact apparatus for removing contaminants from gases. 2,658,735, Nov. 10.

Diamond Alkali Company, assignee : *See*—
Hirsch, Alfred.

Dickenson, Ralph W., Anaheim, Calif. Soil conditioning agents of desert plant origin and their use. 2,658,824, Nov. 10.

Diebold, Incorporated, assignee : *See*—
Behrens, Herbert C.

Disston, Henry, and Sons, Inc., assignee : *See*—
Ackley, Richard E.

Doan, Robert B. : *See*—
Clarke, Edgar W., Doan, and Keenan.

Dodegge, Carl, Maywood, Ill. Power-operated hedge trimmer. 2,658,273, Nov. 10.

Dodge, Adiel Y., Rockford, Ill. Variable fan drive. 2,658,400, Nov. 10.

Dodge, Adiel Y., Rockford, Ill. Selective gear transmission. 2,658,405, Nov. 10.

Doebeli, Albert, Le Locle, Switzerland. Electromagnetically actuated mechanical double-friction coupling. 2,658,593, Nov. 10.

Doherty, William H., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High efficiency radio frequency power amplifier. 2,658,959, Nov. 10.

Dohm, James, Trail, British Columbia, Canada. Audible signal apparatus. 2,659,071, Nov. 10.

Donelian, Khatchik O., Fairlawn, N. J., assignor to the United States of America as represented by the United State Atomic Energy Commission. Electromagnetic pump. 2,658,452, Nov. 10.

Donoghue, Florence F., Worcester, and H. N. Thibault, assignors to Draper Corporation, Hopedale, Mass. Loom knockoff means. 2,658,534, Nov. 10.

Dorne, Arthur, Mineola, N. Y., D. Lazarus, Chicago, Ill., and H. P. Minot, Belmont, Mass., assignors to United States of America as represented by the Secretary of War. Antenna mountable in small spaces. 2,659,003, Nov. 10.

Doughboy Industries, Inc., assignee : *See*—
Grevich, John J.

Dow Chemical Company, The, assignee : *See*—
Dreisbach, Robert R., and Sterling.

Dow Corning Corporation, assignee : *See*—
Maneri, Remo R.

Dowty Equipment Limited, assignee : *See*—
Carey, Frederick H.

Drake, Leonard C., Wenonah, and R. L. Smith, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Reforming catalyst and preparing the same. 2,658,931, Nov. 10.

Draper Corporation, assignee : *See*—
Cadorette, George.
Donoghue, Florence F., and Thibault.

Dreisbach, Robert R., and G. B. Sterling, assignors to The Dow Chemical Company, Midland, Mich. Self-extinguishing alkenylbenzene copolymer composition. 2,658,877, Nov. 10.

Dresser Equipment Company, assignee : *See*—
Coberly, Clarence J.

Dreyer, Theodore F., Newark, N. J. Piston actuated valve for fluid motors. 2,658,485, Nov. 10.

Dualex Corporation, assignee : *See*—
Durkee, James D.

Duerksen, Abraham J., Bridgeport, assignor of one-half to G. A. Duerksen, Alliance, Nebr. Ratchet wrench device for use on nuts or bolts in normally inaccessible locations. 2,658,416, Nov. 10.

Duerksen, George A., assignee : *See*—
Duerksen, Abraham J.

Duke, Harvie J., Butler, assignor to Monroe Calculating Machine Company, Orange, N. J. Automatic balance scheduling means for listing calculating machines. 2,658,669, Nov. 10.

Du Pont, E. I., de Nemours & Company, assignee : *See*—
Beaman, Ralph G.
Brooks, Richard E., and Smook.
Ellis, Howard, and Wilson.

Durfee, Benjamin M. : *See*—
Lake, Clair D., Wilson, Platt, and Durfee.

Durkee, James D., Fairlington, Va., assignor to Dualex Corporation. Printing telegraph system. 2,658,941, Nov. 10.

Durkee, James D., Fairlington, Va., assignor to Dualex Corporation. Printing telegraph system. 2,658,942, Nov. 10.

Durkee, Jame D., Fairlington, Va., assignor to Dualex Corporation. Printing telegraph system. 2,658,943, Nov. 10.

Du Rose, Arthur H., Euclid, and J. D. Little, Bay Village, assignors to The Harshaw Chemical Company, Cleveland, Ohio. Laminated coating. 2,658,266, Nov. 10.

Du Rostu, Georges L., assignor to Societe Anonyme Andre Citroen, Paris, France. Cooling and lubricating arrangement for valve guides and stems of thermal engines. 2,658,491, Nov. 10.

Dynamatic Corporation, assignee : *See*—
Jaeschke, Ralph L.

E. R. A. Patents Ltd., assignee : *See*—
Needham, James C., and Orton.

Eames, Walter R., Jr., Hazel Park, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Hydraulic power system. 2,658,341, Nov. 10.

Eaton Manufacturing Company, assignee : *See*—
Eames, Walter R., Jr.

Ebel, Robert H., Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Purification of mercaptothiazoles. 2,658,864, Nov. 10.

Eberman, Joseph W. : *See*—
Martin, Arthur E., and Eberman.

Ebersole, George B., Westfield, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Separator drying method and apparatus for moisture carrying material. 2,658,615, Nov. 10.

Eby, Ivan D., New York, N. Y. Pressure responsive device for determining the depth of liquids. 2,658,389, Nov. 10.

Eck, Floyd R., Des Plaines, Ill., assignor to Motors Products Corporation, Detroit, Mich. Shelf and container for refrigerator cabinets. 2,658,727, Nov. 10.

Eck, Floyd R., Des Plaines, Ill., assignor to Motor Products Corporation, Detroit, Mich. Swinging refrigerator shelf. 2,658,811, Nov. 10.

Eiffert, Otto H., and H. S. Thomas, Jr., Rochester, N. Y., assignors, by mesne assignments, to H. C. Miller, Fairfax, Va. Combination padlock. 2,658,373, Nov. 10.

Elder, John C., Penn Township, Allegheny County, Pa. Game piece moving means. 2,658,757, Nov. 10.

Electrical Engineers Equipment Co., assignee : *See*—
Hoye, Peder B.

Electronics Enterprises, assignee : *See*—
Hall, Willard C.

Elersich, Frank E., North Hollywood, Calif. Mechanically operated cue. 2,658,756, Nov. 10.

Elkins, Hervey B. : *See*—
Clay, John P., and Elkins.

Elliott, John R. : *See*—
Boldebuck, Edith M., Elliott, and Roedel.

Elliott, William J., Sr., assignor of fifty per cent to E. L. McNeely, Baltimore, Md. Projector for simulated basket ball games. 2,658,495, Nov. 10.

Elliott, William S. : *See*—
Coales, John F., Elliott, Hill, Hersom, and Tindale.

Ellis, Howard, Greenville, and A. K. Wilson, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. 2,658,810, Nov. 10.

Emery, Charles W. : *See*—
Parker, Charles L. Y., Emery, and Smith.

Empire Box Corporation, assignee : *See*—
Hall, Maynard G.

Emsco Manufacturing Company, assignee : *See*—
Ashton, Albert A.

Emshwiller, John P., Riverdale, Md. Mechanism for interlocking pile tubes to submerged structures from above the surface. 2,658,550, Nov. 10.

Emslie, Alfred G., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Electronic oscillator synchronizing circuit. 2,659,009, Nov. 10.

Emslie, Alfred G., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Moving object radio pulse-echo system. 2,659,076, Nov. 10.

Emslie, Alfred G., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Moving target radio pulse echo system. 2,659,077, Nov. 10.

Enfield, John W., Chico, Calif. Pocket container for cigarettes. 2,658,468, Nov. 10.

Engel, David, Uniontown, Pa. Combined vacuum sealed window and Venetian blind housing. 2,658,570, Nov. 10.

Enochian, Samuel H., Kenmore, assignor to Trico Products Corporation, Buffalo, N. Y. Wiper blade for curved windshields. 2,658,223, Nov. 10.

Epelboin, Israël, assignor of one-half to Centre National de la Recherche Scientifique, Paris, France. Manufacturing laminated cores for electromagnets. 2,658,264, Nov. 10.

Epstein, David W., Princeton, N. J., assignor to Radio Corporation of America. Cathode-ray tube of the masked target variety. 2,659,026, Nov. 10.

Erdman, Charles A., Jr. : *See*—
Knauf, Harry V., Jr., and Erdman.

Erdmenger, Rudolf, Bergisch-Gladbach, and P. Gassen, Koln-Buchforst, assignors to Farbenfabriken Bayer, Leverkusen, Germany. Worm feeder. 2,658,604, Nov. 10.

Erickson, Arleigh R., and W. P. Johnson, Aurora, Ill. System responsive to liquid level. 2,659,068, Nov. 10.

Eserkaln, Theodore F., Wauwatosa, and F. Steinbrecker, assignors to George Gorton Machine Co., Racine, Wis. Adjustable ram for machine tools. 2,658,425, Nov. 10.

Essex Wire Corporation, assignee : *See*—
Webb, George L., and Loro.

Estand, Inc., assignee : *See*—
Johnson, Roy W.

Estes, Charles L. : *See*—
Grieg, Donald D., Levine, and Estes.

Eureka Williams Corporation, assignee : *See*—
Witherell, Robert R.

Evans, George W., Jr., Teaneck, N. J., assignor to The Lummus Company, New York, N. Y. Detecting leakage between heat transfer fluids. 2,658,728, Nov. 10.

Evans, Vincent J., Lakewood, Ohio. Calibrator for thermostats. 2,658,380, Nov. 10.

Eversman, Carl A., Lorain, Ohio. Auxiliary foot accelerator device. 2,658,411, Nov. 10.

FKG Fritz Kesselring Geratebau, Aktiengesellschaft, assignee : *See*—
Wettstein, Erwin.

Falco, Elvira A. : *See*—
Hitchings, George H., and Falco.

Farbenfabriken Bayer, assignee : *See*—
Erdmenger, Rudolf, and Gassen.

Farbenfabriken Bayer Aktiengesellschaft, assignee : *See*—
Kwasnik, Walter.

Farbwerke Hoechst A. G. vormals Meister Lucius und Brüning, assignee : *See*—
Fischer, Ernst.

Farly, George M., Berkeley, Calif., assignor to The United States of America as represented by the United States Atomic Energy Commission. Bevatron acceleration regulation. 2,658,999, Nov. 10.

Fechheimer, Paul R., assignor to The Karl Kiefer Machine Company Cincinnati, Ohio. Machine for filling containers. 2,658,657, Nov. 10.

Federal Telecommunication Laboratories, Inc., assignee : *See*—
Grieg, Donald D., Levine, and Estes.

Feine, Erich, Ravensburg, Germany. Orthopedic balancing apparatus for leg amputees. 2,658,388, Nov. 10.

Feldkamp, Rolland F. : *See*—
Tullar, Benjamin F., and Feldkamp.

Feldman, Carl B. H. : *See*—
Carbrey, Robert L., Cutler, and Feldman.

Ferda, Julius, and S. Deutsch, Cincinnati, Ohio. Work object and support securing device. 2,658,765, Nov. 10.

Ferguson, Harry, Inc., assignee : *See*—
Nelson, Noral A.

Fernald, Russell G., Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for handling granular material. 2,658,603, Nov. 10.

Fernekees, James E. : *See*—
Palmer, Ralph L., Fernekees, Haddad, Phelps and Williams.

Ferrell, George W., assignee : *See*—
Hill, Earl J.

Ferrier, Joseph G., Riverdale Heights, Md. Animated display placard. 2,658,304, Nov. 10.

Ferro Stamping Company, assignee : *See*—
Fish, Carl C., and Haberstrump.

Fessenden, George R., Baltimore, Md. Preserving plant and animal tissues. 2,658,836, Nov. 10.

Fibre Metal Products Company, The, assignee : *See*—
Bowers, Charles E., Sr.

Field, Lloyd M., deceased, New London, Ohio; F. J. F. Karcher, Pueblo, Colo., executrix, assignor, by mesne assignments to A. R. Cochrane, trustee, Pittsburgh, Pa. Spark plug. 2,658,934, Nov. 10.

Fink, Jean : *See*—
Richardson, Rodney G., and Fink.

Fiordelisi, Ernesto, New York, N. Y. Concrete block construction. 2,658,378, Nov. 10.

Fischer, Ernst, Offenbach (Main), assignor to Farbwerke Hoechst A. G. vormals Meister Lucius und Brüning, Frankfurt am Main-Hochst, Germany. Heterocyclic monoazodyestuffs. 2,658,888, Nov. 10.

Fischer, Howard R., and J. A. Roberts, Utica, assignors to Chicago Pneumatic Tool Company, New York, N. Y. Compression riveter switch. 2,658,966, Nov. 10.

Fischer, Wilbur F., Roselle Park, N. J., assignor to Standard Oil Development Company. Stabilized oxo alcohols. 2,658,923, Nov. 10.

Fish, Carl C., and A. H. Haberstrump, Detroit, Mich., assignors to Ferro Stamping Company. Vehicle door construction. 2,658,790, Nov. 10.

Fisher, Clarence E., Culver City, Calif. Relay device. 2,658,961, Nov. 10.

Fitzgerald, Albert J., Syracuse, N. Y., assignor to General Electric Company. Structural member for grilles and air filters. 2,658,583, Nov. 10.

Fleisher, Harry, Staten Island, and J. Homer, Grasmere, N. Y. Child's seat. 2,658,556, Nov. 10.

Fleming, Howard M., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Paper guide for accounting machines. 2,658,600, Nov. 10.

Flory, Leslie E. : *See*—
Morton, George A., Flory, and Snyder.

Flory, Lucien J. T., Rocheville, France. Moving target apparatus. 2,658,759, Nov. 10.

Floyd, Raymond H., Redondo Beach, Calif., assignor to General Electric Company. Electronic control circuit. 2,659,008, Nov. 10.

Food Machinery and Chemical Corporation, assignee : *See*—
Woodward, Teynham.

Fooshee, Irb H., Tenafly, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Dispenser valve assembly. 2,658,714, Nov. 10.

Formwalt, John M., Newport, R. I. Apparatus for measuring chemical activity, particularly of catalysts. 2,658,819, Nov. 10.

Forney, Harold R., Surprise, Nebr. Telescoping trailer hitch. 2,658,769 Nov. 10.

Fort Howard Paper Company, assignee : *See*—
Ver Doot, Henry, Jr.

Fowler, William R., Jr., and B. R. McGill, Selma, Calif., said McGill assignor to said Fowler, Jr. Crop heating device for preventing frost damage. 2,658,308, Nov. 10.

Foxboro Company The, assignee : *See*—
Bowditch, Hoel L.
Vannah, William E.

Fral Manufacturing Co., assignee : *See*—
Perlman, Alfred H.

France Manufacturing Co., The, assignee : *See*—
Ranney, Percival K., and Kazebee.

Fraser, James, assignor to Speakman Company, Wilmington, Del. Shower head with volume control. 2,658,799, Nov. 10.

Fried, Mendel, Brooklyn, N. Y. Fountain pen cap having an ink container therein. 2,658,479, Nov. 10.

Frielinghaus, Ferdinand : *See*—
Schmidt, Job and Frielinghaus.

Fuller, Alfred J. : *See*—
Potter, William W., and Fuller.

Furnell, Dale Q., St. Paul, Minn. Hypodermic syringe. 2,658,511, Nov. 10.

Futter, Homer, Spokane, Wash. All weather salt block. 2,658,476, Nov. 10.

Galler, William, Valley Stream, assignor to American Cystoscope Makers, Inc., New York, N. Y. Halothenoylglycines. 2,658,904, Nov. 10.

Gallo, Paul P., assignor of twenty-five percent to E. A. Renner, Youngstown, Ohio. Gauge and warning light combination. 2,659,070, Nov. 10.

Gang, Herman, Livingston, assignor to Monroe Calculating Machine Company, Orange, N. J. Factor entering means. 2,658,684, Nov. 10.

Garrett Corporation, The, assignee : *See*—
Chapman, James E., and Bevan.

Gash, Abram D., Jr. : *See*—
Bonnano, Joseph L., and Gash.

Gassen, Peter : *See*—
Erdmenger, Rudolf, and Gassen.

Gatti, Ubaldo, Leghorn, Italy. Rotary plow. 2,658,436, Nov. 10.

Gelinas, Maurice, L'Abord a Plouffe, Quebec, Canada. Disk type lawn mower. 2,658,320, Nov. 10.

Gemmink, John, assignee : *See*—
Howard, Henry F.

General American Transportation Corporation, assignee : *See*—
Gutzeit, Gregoire, and Krieg.
Gutzeit, Gregoire, and Ramirez.
Talmey, Paul, and Crehan.

General Dry Batteries, Inc., assignee : *See*—
Rock, Arthur F.

General Electric Company, assignee : *See*—
Boldebuck, Edith M., Elliott, and Roedel.
Casey, Robert T.
Fitzgerald, Albert J.
Floyd, Raymond H.
Janos, Alfred G.
Kalikow, Irving.
Mendelsohn, Lewis I.
Weeks, Walter R.

General Filters, Inc., assignee : *See*—
Redner, Arthur D.

General Motors Corporation, assignee : *See*—
Blanco, Peter J.
Harada, Henry H.

General Radiological Limited, assignee : *See*—
Quittner, Victor

General Register Corporation, assignee : *See*—
Helsel, Reuben H.

Geovision Incorporated, assignee : *See*—
Rieber, Frank.

Gerwick, Ben C., Inc., assignee : *See*—
Trexel, Carl A.

Gibson, Robert B., Ponca City, Okla. Bone fracture splint. 2,658,508, Nov. 10.

Gilbert & Barker Manufacturing Company, assignee : *See*—
Plossl, George W., and Neef.

Gillette Company, The, assignee : *See*—
Atchinson, Stanley.

Girard, Theodore A. : *See*—
Klein, David N., Girard, and Johnson.

Givens, John H., Meriden, and L. Rose and E. J. Whyte, Coventry, assignors to Courtaulds Limited, London, England. Rayon spinning machinery. 2,658,254, Nov. 10.

Glass Fibers, Inc., assignee : *See*—
Labino, Dominick.

Goddard, Charles H., Newburyport, Mass. Producing glass plaques. 2,658,311, Nov. 10.

Goff, William S., assignor to The Clark Manufacturing Company, Cleveland, Ohio. Vapor trap. 2,658,517, Nov. 10.

Goldberg, Moses W., Upper Montclair, and A. I. Rachlin, Maywood, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Substituted phenylazomalononitriles. 2,658,889, Nov. 10.

Goldberg, Walter, Jersey City, N. J. Wallpaper hanger. 2,658,639, Nov. 10.

Goldberger, Charles R., Brooklyn, N. Y. Making paintbrushes. 2,658,801, Nov. 10.

Goldsmith, Philip H., assignor to The Pusey & Jones Corporation, Wilmington, Del. Adjustable cylinder papermaking machine. 2,658,428, Nov. 10.

Gorton, George, Machine Co., assignee: *See*—
Eserkaln, Theodore F., and Steinbrecker.
Stuart, Robert J., and Gunderson.

Gossard, Thomas F., North Hollywood, assignor to Standard Coil Products Co. Inc., Los Angeles, Calif. Tuner. 2,658,394, Nov. 10.

Gosselin, Wilfrid J., Methuen, assignor to U. S. Bobbin & Shuttle Company, Lawrence, Mass. Weaving shuttle of molded material having embedded tip-anchoring means. 2,658,533, Nov. 10.

Govan, Jack F., assignee: *See*—
Rex, Carl A. M.

Govan, Roy H., assignee: *See*—
Rex, Carl A. M.

Graham, Marion E.: *See*—
Whitehouse, Irving P., and Graham.

Granger, John V.: *See*—
Christensen, John W., Granger, and Wedel.

Grant, Charles R. A., London, England, assignor of one-half to Pressure Gauges Limited, Dublin, Eire. Piston and cylinder type fluid pressure gauge connecting device. 2,658,391, Nov. 10.

Great Lakes Manufacturing Corporation, assignee: *See*—
Kanuch, John A.

Greco, Anthony, Hasbrouck Heights, N. J. Blind stitch machine. 2,658,464, Nov. 10.

Green, Donald W., trustee, assignee: *See*—
McGill, Daniel F.

Green, Harold J., West Branch, Mich. Universal trailer sleeping unit. 2,658,212, Nov. 10.

Green, Marvin T., Chicago, Ill. Lint remover. 2,658,217, Nov. 10.

Greene, Otto W., Rochester, N. Y., assignor to The Pfaudler Company. Glass-lined pump. 2,658,454, Nov. 10.

Greenfield, Eugene W., and A. C. Connell, Hastings on Hudson, N. Y., assignors to Anaconda Wire and Cable Company. Power cable containing fluid under pressure. 2,658,939, Nov. 10.

Grevich, John J., assignor to Doughboy Industries, Inc., New Richmond, Wis. Power hand band sealer. 2,658,552, Nov. 10.

Grieg, Donald D., North Caldwell, and A. M. Levine, River Edge, N. J., and C. L. Estes, Scottsdale, Ariz., assignors to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Electrical signal translating system. 2,659,049, Nov. 10.

Groniund, Ernst H., Algonac, Mich. Electrically heated lunch box. 2,658,986, Nov. 10.

Grosse, Fred, Williamsville, N. Y. Stand for flatirons. 2,658,708, Nov. 10.

Grove, Clinton: *See*—
Teetor, Paul, Grove, and Heller.

Gruenberg, Harry, assignor to National Research Council, Ottawa, Ontario, Canada. Microwave antenna. 2,659,005, Nov. 10.

Guala, John R., Bywood, Upper Darby, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Process and apparatus for increasing vacuum tower production. 2,658,863, Nov. 10.

Guichard, Roger H., Walnut Creek, Calif. Hydrostatic test unit. 2,658,386, Nov. 10.

Gulf Oil Corporation, assignee: *See*—
Guala, John R.

Gulf Research & Development Company, assignee: *See*—
Ambrose, Henry A., and Brandes.
Stevens, Donald R., and Camp.

Gunderson, Allen D.: *See*—
Stuart, Robert J., and Gunderson.

Guth, Frederick A., Waverly, Ohio, and H. F. Guth, Memphis, Tenn. Folding door construction for wide doorways. 2,658,571, Nov. 10.

Guth, Harold F.: *See*—
Guth, Frederick A. and H. F.

Guttormsen, Joseph P., Kenosha, Wis. Door check. 2,658,231, Nov. 10.

Gutzeit, Carlos L.: *See*—
Lang, William H., and Gutzeit.

Gutzeit, Gregoire, Highland, and A. Krieg, Gary, Ind., assignors to General American Transportation Corporation, Chicago, Ill. Chemical nickel plating and bath therefor. 2,658,841, Nov. 10.

Gutzeit, Gregoire, Highland, Ind., and E. J. Ramirez, Forest Park, assignors to General American Transportation Corporation, Chicago, Ill. Chemical nickel plating and bath therefor. 2,658,842, Nov. 10.

Haberstrump, Alfred H.: *See*—
Fish, Carl C., and Haberstrump.

Hacker, Stanley R.: *See*—
Specter, Sanford L., and Hacker.

Haddad, Jerrier A.: *See*—
Palmer, Ralph L., Fernekees, Haddad, Phelps, and Williams.

Haeg, Robert J., and C. C. Miller, Minneapolis, Minn. Device for installing cesspools in a single operation. 2,658,352, Nov. 10.

Hage, Albert, Toledo, Ohio. Milling cutter. 2,658,260, Nov. 10.

Haighton, Thomas: *See*—
Haythornthwaite, James J., and Haighton.

Halahan, John, Jackson Heights, T. F. Aronson, Valley Stream, and F. A. Lyon, Upper Brookville, N. Y. Dispensing machine. 2,658,656, Nov. 10.

Hall, Maynard G., Rutherford, assignor to Empire Box Corporation, Garfield, N. J. Bottle carrier. 2,658,659, Nov. 10.

Hall, Rolland G., Yalesville, assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Apparatus for removing excess solder from soldered articles. 2,658,466, Nov. 10.

Hall, Willard C., assignor to Electronics Enterprises, Los Angeles, Calif. Circuit for space discharge lamps. 2,659,034, Nov. 10.

Hallum, Odean T., Denver, Colo. Automatic livestock feeder. 2,658,477, Nov. 10.

Halpin, Eugene P., South Bend, Ind., assignor to Bendix Aviation Corporation, Detroit, Mich. Pulse rectifier circuit. 2,659,007, Nov. 10.

Halter, Allan C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric control system for dynamoelectric machines with reversible current. 2,659,040, Nov. 10.

Hampton, Zackariah T., assignee: *See*—
Hill, Earl J.

Hansburg, George B., Walker Valley, N. Y. Bathtub. 2,658,204, Nov. 10.

Hansen, Charles W., assignor to J. I. Case Company, Racine, Wis. Field or row crop forage harvester. 2,658,319, Nov. 10.

Hansen, Louis H., San Mateo, Calif. Pencil attached adjustable eraser. 2,658,480, Nov. 10.

Harada, Henry H., Grand Blanc, assignor to General Motors Corporation, Detroit, Mich. Quick reset odometer. 2,658,685, Nov. 10.

Harbaugh, Willis E., Bareville, Pa., assignor to Radio Corporation of America. Carburizing. 2,658,844, Nov. 10.

Harbison, Dixon T., Fort Worth, Tex. Well pump. 2,658,457, Nov. 10.

Hardenberg, Jan J. C., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. X-ray device. 2,659,010, Nov. 10.

Hare, Milton D., Chicago, Ill., and V. Leonard, Arlington, Mass., assignors to United States of America as represented by the Secretary of War. Tunable squirrel cage magnetron. 2,659,033, Nov. 10.

Harland, Philip W., Quakertown, and L. D. Johnson, Sellersville, Pa., assignors to American Machine and Metals, Inc., New York, N. Y. Air release for water tanks. 2,658,518, Nov. 10.

Harris, Doris C., trustee, assignee: *See*—
Harris, George S., Jr.

Harris, George S., Jr., Newton, assignor of fifty per cent to E. M. Thomas, Milton, and twenty-five per cent to J. N. Muldoon, and twenty-five per cent to D. C. Harris, trustee, Newton, Mass. Dispensing machine for beverages having plural ingredients. 2,658,645, Nov. 10.

Harris, John L., Whitefish Bay, Wis. Control device. 2,658,573, Nov. 10.

Harris, Thomas A., Edgbaston, Birmingham, assignor to Joseph Lucas Limited, Birmingham, England. Means for controlling a liquid-operated servo mechanism. 2,658,482, Nov. 10.

Harris, Thomas A., Edgbaston, Birmingham, assignor to Joseph Lucas Limited, Birmingham, England. Fluid operated servo mechanism. 2,658,483, Nov. 10.

Harrison, Charles W., assignor to Arnolt Corporation, Warsaw, Ind. Formation of welding projections on tubes. 2,658,548, Nov. 10.

Harrison, William V., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Engine starter control system. 2,659,018, Nov. 10.

Harsant, Henry J., Lakewood, and T. F. Deucher, Parma, assignors, by mesne assignments, to Clevite Corporation, Cleveland, Ohio. Magnetic recording and reproducing device. 2,658,952, Nov. 10.

Harshaw Chemical Company, The, assignee: *See*—
Du Rose, Arthur H., and Little.
Little, John D.

Hart, George T., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. High-frequency sole attaching. 2,658,213, Nov. 10.

Hart, James C.: *See*—
Davis, Doyle M., and Hart.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Bokhove, Karel H. J.
Bourgonnier, Claude, Jouguet, and Bunodiere.
Hardenberg, Jan J. C.
Verweel, Jan.

Haskell, William E., Springfield, Mass. Head traction device. 2,658,506, Nov. 10.

Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire buffing band. 2,658,258, Nov. 10.

Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Paul E.

Hayes, Luther, Bellflower, Calif. Tethered toy airplane control. 2,658,305, Nov. 10.

Hays Corporation, The, assignee: *See*—
Richardson, Robert D.

Haythornthwaite, James J., and T. Haighton, Accrington, assignors to T. M. M. (Research) Limited, Rossendale, England. Donning mechanism for ring spinning, doubling, and twisting machines. 2,658,325, Nov. 10.

Hazlett, William A.: *See*—
Wolman, Abel, and Hazlett.

Heat-X-Changer Co., Inc., The, assignee: *See*—
Boling, Cecil.

Heberlein, Gustave E., Bryn Mawr, assignor, by mesne assignments, to I-T-E Circuit Breaker Company, Philadelphia, Pa. Blade assembly for disconnect switches. 2,658,964, Nov. 10.

Hechenbleikner, Ingenuin: *See*—
Kaiser, Donald W., and Hechenbleikner.

Hecker, Harvard K., University City, assignor to Curtis Mfg. Company, St. Louis, Mo. Lifting device. 2,658,586, Nov. 10.

Heller, Charles W.: *See*—
Teetor, Paul, Grove, and Heller.

Helsel, Reuben H., assignor to General Register Corporation, Long Island City, N. Y. Ticket issuing machine. 2,658,446, Nov. 10.

Henderson, William H., Santa Rosa, Calif. Adjustable dispensing closure for containers. 2,658,658, Nov. 10.

Hengstebeck, Robert J., Valparaiso, Ind., assignor to Standard Oil Company, Chicago, Ill. Fluidized solids system. 2,658,822, Nov. 10.

Hennessey, Russell J., assignor to Waldorf Paper Products Company, St. Paul, Minn. Reclosable carton. 2,658,664, Nov. 10.

Hennessy, James J., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa. Railway journal lubricator. 2,658,806, Nov. 10.

Hennessy Lubricator Company, Inc., assignee: *See*—
Hennessy, James J.

Henning, Otto, assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor de-icing means. 2,658,734, Nov. 10.

Hensley, Charles A. E., Winnipeg, Manitoba, Canada. Fluid flow restrictor. 2,658,529, Nov. 10.

Heraeus Quarzschmelze G. m. b. H., assignee: *See*—
Mohn, Heinrich.

Herb, Raymond G., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Radar system and antenna therefor. 2,659,006, Nov. 10.

Hercules Powder Company, assignee: *See*—
Horne, Charles F.
Sartin, Jarvis G.

Hersom, Samuel E.: *See*—
Coales, John F., Elliott, Hill, Hersom, and Tindale.

Herzfeld, Louis M., Beverly Hills, Calif. Upper engine lubricating device. 2,658,494, Nov. 10.

Hess, Howard V.: *See*—
Arnold, George B., Truitt, and Hess.
Pevere, Ernest F., Hess, and Arnold.

Heuer, Henry B., Flint, Mich. Utensil holder. 2,658,707, Nov. 10.

Heuer, Lawrence H., assignor to Automotive Spring Corporation, Detroit, Mich. Snap-in deformable clip holder. 2,658,247, Nov. 10.

Heuneman, Fred, Livingston, N. J., assignor to Armstrong-Blum Manufacturing Company, Chicago, Ill. Hacksaw frame with spare blade storage chamber. 2,658,541, Nov. 10.

Hewitt, Ellis E.: *See*—
May, Harry C., and Hewitt.

Hewitt-Robins Incorporated, assignee: *See*—
Bankauf, William F.

Heyden Chemical Corporation, assignee: *See*—
Klein, David X., Girard, and Johnson.

Heyer, Eric H., Los Angeles, Calif. Automatic illumination system. 2,659,038, Nov. 10.

Hilgen, Theodore J., assignor to Aurora Equipment Company, Aurora, Ill. Adjustable shelf divider. 2,658,628, Nov. 10.

Hill, William T., administrator: *See*—
Smith, Victor W.

Hill, Norman D.: *See*—
Coales, John F., Elliott, Hill, Hersom, and Tindale.

Hill, Earl J., deceased, North Durham, N. C.: W. T. Hill, administrator of said E. J. Hill, assignor of one-half to G. W. Ferrell and one-half to Z. T. Hampton, Durham, N. C. Toilet paper holder. 2,658,690, Nov. 10.

Hill, Raymond A., San Marino, Calif. Water channel control gate. 2,658,351, Nov. 10.

Hill, William T., administrator: *See*—
Hill, Earl J.

Hilton, Joyce J., St. Louis, Mo. Protective covering for feet or hands. 2,658,510, Nov. 10.

Hinde & Dauch Paper Company, The, assignee: *See*—
Aquino, Salvatore A., and Welshenbach.

Hinrichs, Herman A., Tacoma, Wash. Holder for tube dispensers having automatically operable closures. 2,658,646, Nov. 10.

Hirsch, Alfred, Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Moldable material comprising asbestos and a cohydrolyzate of phenyl silicon trihalide and ethyl silicon trihalide. 2,658,881, Nov. 10.

Hirtz, John F.: *See*—
Jaye, Richard C., and Hirtz.

Hitchings, George H., Tuckahoe, and E. A. Falco, New Rochelle, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. 2,4-diamino-5-benzyl pyrimidines. 2,658,897, Nov. 10.

Hobbs, Howard H., assignor to The Oakes Manufacturing Company, Tipton, Ind. Laying nest. 2,658,475, Nov. 10.

Hoelscher, William G., assignor to The American Tool Works Co., Cincinnati, Ohio. Support for cutting tools. 2,658,418, Nov. 10.

Hoffmann, Karl, Binningen, and M. Spillmann, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. 2-(N-arylethyl-alkylaminomethyl)-furanes. 2,658,905, Nov. 10.

Hoffmann-La Roche Inc., assignee: *See*—
Goldberg, Moses W., and Rachlin.
Kimel, Walter.
Kirchensteiner, Hans, Klaeui, and Lindlar.

Hoglund, Nils, Union, N. J. Wheel dressing apparatus. 2,658,496, Nov. 10.

Hoglund, Nils, Union, N. J. Wheel dressing apparatus. 2,658,497, Nov. 10.

Hoglund, Nils, Union, N. J. Grinding wheel dressing mechanism. 2,658,498, Nov. 10.

Hoglund, Nils, Union, N. J. Grinding wheel dressing mechanism. 2,658,499, Nov. 10.

Hoglund, Nils, Summit, N. J. Grinding wheel dressing apparatus. 2,658,500, Nov. 10.

Hoglund, Nils, Summit, N. J. Grinding wheel dressing apparatus. 2,658,501, Nov. 10.

Holbrook, Bernard D., Madison, and A. A. Lundstrom, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sight order computer. 2,658,678, Nov. 10.

Holbrook, Bernard D., Madison, and A. A. Lundstrom, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Computer control device. 2,658,679, Nov. 10.

Holbrook, Bernard D., Madison, A. A. Lundstrom, East Orange, and W. A. Malthaner, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wind and spot computer. 2,658,680, Nov. 10.

Holcroft & Company, assignee: *See*—
Holcroft, Walter H.

Holcroft, Walter H., assignor to Holcroft & Company, Detroit, Mich. Work conveyer for heat-treating furnaces. 2,658,633, Nov. 10.

Holl, James W. F., Temple City, Calif. Fuel carburetion system. 2,658,732, Nov. 10.

Holland, Cecil C., assignee: *See*—
Bronish, Arthur H.

Hollander, William L., assignor to A. B. Chance Company, Centralia, Mo. Expanding earth anchor. 2,658,590, Nov. 10.

Hollinshead, William H., St. Paul, Minn. Control switch. 2,658,397, Nov. 10.

Hollyday, William C., Jr., Fanwood, and M. H. Mahan, Roselle, N. J., assignors to Standard Oil Development Company. Modified copolymers and preparation and uses thereof. 2,658,872, Nov. 10.

Holt, William J., Jr., Garland, Tex. Climbing toy. 2,658,306, Nov. 10.

Home Curtain Corp., assignee: *See*—
Bender, Harry.

Homer, Jacob: *See*—
Fleisher, Harry, and Homer.

Honey, John F., Menlo Park, Calif., assignor to the United States of America as represented by the Secretary of the Army. Alignment indicator. 2,659,050, Nov. 10.

Honey, John F., Menlo Park, Calif., assignor to the United States of America as represented by the Secretary of the Army. Carrier insertion. 2,659,051, Nov. 10.

Honn, Floyd R., assignee: *See*—
Andersen, Charles M.

Hoover Company, The, assignee: *See*—
Brace, George A.
La Briere, Nelson W.
Smellie, Donald G.
Sutton, Otis B.
Tschudy, Donald B.
White, Harry B.
Wilson, Herbert W.

Horne, Charles F., Kingston, N. Y., assignor to Hercules Powder Company, Wilmington, Del. Static resistant electric initiator. 2,658,451, Nov. 10.

Horner, Harold R., assignor to Reilly Tar & Chemical Corporation, Indianapolis, Ind. Defluidization and fixed-bed coking of a preheated fluidized coal. 2,658,862, Nov. 10.

Horwitz, Saul, Jersey City, N. J. Preheater-type heat exchanger. 2,658,729, Nov. 10.

Houdaille-Hershey Corporation, assignee: *See*—
Dall, Edward D.

Houdry Process Corporation, assignee: *See*—
Dart, Jack C.

Houghton, Dale B.: *See*—
Houghton, Dale B., Jr., and D. B.

Houghton, Dale B., Jr., Frankfort, and D. B. Houghton, Beulah, Mich. Bridging. 2,658,241, Nov. 10.

Houseman, George A.: *See*—
Young, Don H., and Houseman.

Howard, Henry F., assignor of one-fourth to A. W. Vibber, and five percent to J. Gemmink, Paterson, N. J. Clothes scale for washing machines. 2,658,745, Nov. 10.
Howell, Alun R., Neath, Wales, assignor to Power Jets (Research and Development) Ltd., London, England. Turbocompressor power plant for aircraft. 2,658,700, Nov. 10.
Hoye, Peder B., Maywood, assignor to Electrical Engineers Equipment Co., Melrose Park, Ill. Air circuit interrupter. 2,658,976, Nov. 10.
Hoye, Peder B., Maywood, assignor to Electrical Engineers Equipment Co., Melrose Park, Ill. Electrical load break switch. 2,658,977, Nov. 10.
Huck Co., assignee: *See*—
Huck, William F.
Huck, William F., Forest Hills, assignor to Huck Co., New York, N. Y. Milling machine. 2,658,424, Nov. 10.
Huggins, William H., and P. I. Richards, Cambridge, Mass., assignors to the United States of America as represented by the Secretary of War. Panoramic frequency indicator. 2,658,994, Nov. 10.
Huggins, William H., Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Reflex klystron oscillator. 2,659,025, Nov. 10.
Hughes, George E., and E. Saurborn, Columbus, assignors to Surface Combustion Corporation, Toledo, Ohio. Burner mounting for warm air heaters. 2,658,569, Nov. 10.
Hughes, Harry W., River Forest, Ill. Control mechanism for vehicles. 2,658,409, Nov. 10.
Huhta, Donald S.: *See*—
Nordmark, Walter E., and Huhta.
Hull, Joseph F.: *See*—
Tonks, Lewi, and Hull.
Hull, Matthew R., Connersville, Ind. Ironing board mounting structure. 2,658,294, Nov. 10.
Hunt Foods, Inc., assignee: *See*—
Stryker, Garrett B.
Hunt, J. Harold, assignor to Motor Wheel Corporation, Lansing, Mich. Nonsquealing sheet metal brake shoe. 2,658,473, Nov. 10.
Hurley, Earl H., assignor of ten percent to J. L. Lansberry, Corry, Pa. Liquid level actuated switch. 2,658,970, Nov. 10.
Huyton, Alfred: *See*—
Clarke, John S., and Huyton.
Hydraulic Molds Corporation, assignee: *See*—
Cuppett, Charles H., and Taylor.
Hyman, Abraham, New York, N. Y. Means for comparing two voltages. 2,658,998, Nov. 10.
Hyman, Julius, and M. Silverman, Denver, Colo., assignors, by mesne assignments, to Shell Development Company, Emeryville, Calif. Process for the production of naphthalene and related derivatives, and derivatives highly chlorinated, partially hydrogenated triphenylene. 2,658,913, Nov. 10.
Hyman, Julius, and A. A. Danish, Denver, Colo., assignors, by mesne assignments, to Shell Development Company, Emeryville, Calif. Chlorinated polycyclic compounds. 2,658,926, Nov. 10.
I-T-E Circuit Breaker Company, assignee: *See*—
Heberlein, Gustave E.
Ifield, Richard J., Dural, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England. Means for providing a restricted passage in a fluid conduit. 2,658,528, Nov. 10.
Illinois Tool Works, assignee: *See*—
Crowther, Edmond C.
Imperial Tobacco Company of Canada, Limited, assignee: *See*—
Rowell, Lorne A.
Ingersoll-Rand Company, assignee: *See*—
McClay, Gordon F.
International Business Machines Corporation, assignee: *See*—
Lake, Clair D., Wilson, Platt, and Durfee.
Luhn, Hans P.
Palmer, Ralph L., Fernekees, Haddad, Phelps, and Williams.
Rabenda, Edward J.
Ipsen, Harold N., Rockford, Ill. Muffle furnace. 2,658,744, Nov. 10.
Ireland, John, assignee: *See*—
Parkinson, Norman.
Issartial, Claude, St-Rambert-l'Ile-Barbe, assignor to Societe Rhodiaceta, Paris, France. Producing spinnerets for the production of threads. 2,658,414, Nov. 10.
Itzkowitz, Myer, assignee: *See*—
Pepe, Pasquale.
Ivers-Lee Company, assignee: *See*—
Volckening, Lloyd I.
Jackson, Wilbur F., Compton, Calif., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa. Safety reset valve device for burners. 2,658,515, Nov. 10.
Jaeger, Wayne E., Imperial, Nebr. Drill tooth. 2,658,463, Nov. 10.
Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Tension feed control. 2,658,751, Nov. 10.
Janos, Alfred G., Erie, Pa., assignor to General Electric Company. Combined illumination and minimum temperature control for refrigerators. 2,658,968, Nov. 10.
Jansen, Howard, Chicago, Ill. Ski binding. 2,658,767, Nov. 10.
Jasper, Herman H., Bloomington, Ill. Fishing rod holder. 2,658,650, Nov. 10.
Jaye, Richard C., and J. F. Hirtz, assignors to Synchromatic Corporation, Watertown, Wis. Gas fired forced air flow air heating furnace. 2,658,504, Nov. 10.
Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Cam released clutch. 2,658,597, Nov. 10.
Johannsen, Hans C.: *See*—
Johannsen, Solvej and H. C.
Johannsen, Solvej and H. C., Battenberg an der Eder, Germany. Automatic target. 2,658,758, Nov. 10.
Johanson, Knut, Montigny-les-Cormeilles, assignor, by mesne assignments, to Société Anonyme so-called: Compagnie Electro-Mecanique, Paris, France. Mounting and fixing of turbo-machine fixed blades. 2,658,719, Nov. 10.
Johns-Manville Corporation, assignee: *See*—
Spell, Sidney, and Powell.
Johnson, Frederick H., Pleasant Ridge, Mich. Valve structure. 2,658,523, Nov. 10.
Johnson, George C., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Pinyl thiophene. 2,658,901, Nov. 10.
Johnson, George C., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Thiophene polymers. 2,658,902, Nov. 10.
Johnson, Hilding R.: *See*—
Klein, David X., Girard, and Johnson.
Johnson, James B., assignor to The W. B. Marvin Manufacturing Company, Urbana, Ohio. Room ventilating device. 2,658,441, Nov. 10.
Johnson, Kenneth M., Ashland, Ky. Retainer for electrical attachment plugs. 2,659,059, Nov. 10.
Johnson, Leon D.: *See*—
Harland, Philip W., and Johnson.
Johnson, Roy W., Woodland, assignor, by mesne assignments, to Estand, Inc., San Francisco, Calif. Suspension for side delivery rakes. 2,658,324, Nov. 10.
Johnson, Sven J., Higganum, assignor to Andersen Laboratories, Inc., West Hartford, Conn. Adjustable delay line. 2,659,053, Nov. 10.
Johnson, Thomas W., Troy Hills, assignor to Bendix Aviation Corporation, Teterboro, N. J. Ram-jet launching sequence fuel flow control valve. 2,658,331, Nov. 10.
Johnson, Walter P.: *See*—
Erickson, Arleigh R., and Johnson.
Johnson, William S., Madison, Wis., and D. L. Turner, Philadelphia, Pa., assignors to Wisconsin Alumini Research Foundation, Madison, Wis. Preparing 1,2,3,4-tetrahydrophenanthrenes. 2,658,910, Nov. 10.
Johnston, Samuel A., Walworth, and P. B. Wickham, Delavan, Wis., assignors to The George W. Borg Corporation, Chicago, Ill. Apparatus for timing a balance wheel assembly. 2,658,381, Nov. 10.
Jones, Alan S.: *See*—
Del Valle, Guillermo A., and Jones.
Jones, Laurence W., Longwood, Fla. Dog muzzle. 2,658,478, Nov. 10.
Jones, Llewellyn, Coos Bay, Oreg. Golf ball retriever. 2,658,785, Nov. 10.
Jouget, Marc: *See*—
Bourgonnier, Claude, Jouguet, and Bunodiere.
Jungholm, Karl J., Stockholm, Sweden. Remote control switch actuating device. 2,658,979, Nov. 10.
Junker, Otto, assignor to O. Junker, Lammersdorf, near Aachen, Germany. Rotary cutter. 2,658,261, Nov. 10.
Kaiser Aluminum & Chemical Corporation, assignee: *See*—
Barker, Lawrence J.
Kaiser, Donald W.: *See*—
Roemer, John J., and Kaiser.
Kaiser, Donald W., Old Greenwich, and I. Hechenbleikner, Norwalk, Conn., assignors to American Cyanamid Company, New York, N. Y. N-alkyl-N-vinyl cyanamide preparation. 2,658,915, Nov. 10.
Kaiser, Donald W., Old Greenwich, and J. J. Roemer, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Formoguanamines and their preparation. 2,658,894, Nov. 10.
Kaiser, Edward W., Chicago, Ill. Conduit system. 2,658,527, Nov. 10.
Kaiser, Edward W., Chicago, Ill. Combined support and turbulence effecting device. 2,658,530, Nov. 10.
Kaiser, Rudolf, Ettlingen, Baden, Germany, assignor to Aeroquip Corporation, Jackson, Mich. Sealing structure. 2,658,808, Nov. 10.
Kalikow, Irving, Swampscott, Mass., assignor to General Electric Company. Driving mechanism. 2,658,361, Nov. 10.
Kane, Edward, and E. L. Whitlock, New York, N. Y. Pinking shears. 2,658,274, Nov. 10.
Kanuch, John A., South Euclid, assignor to Great Lakes Manufacturing Corporation, Cleveland, Ohio. Adjustable hydraulic connecting member. 2,658,588, Nov. 10.
Kaplan, Sol, University City, and B. Platts, St. Louis, Mo. Cheese cutter. 2,658,275, Nov. 10.
Karcher, Floyd E. J. F., executrix: *See*—
Field, Lloyd M.
Karp, Edward C., Belvidere, and S. G. Berglund, Rockford, assignors to Sanitary Scale Company, Belvidere, Ill. Tare adjustment device. 2,658,746, Nov. 10.
Katz, Jacob R., University City, Mo. Base materials for frozen desserts. 2,658,831, Nov. 10.

Katzenberger, Bernhard, Heidelberg, assignor to Brown, Boveri & Cie., Aktiengesellschaft, Mannheim-Kafertal, Germany. Refrigerator and deep freezer system. 2,658,355, Nov. 10.
Kauffmann, Hans O.: *See*—
Shanley, Edward S., and Kauffmann.
Kaye, John, Banning, Calif. Code keying system. 2,658,946, Nov. 10.
Kazebee, Charles R.: *See*—
Ranney, Percival K., and Kazebee.
Kearney, James R., Corporation, assignee: *See*—
Runde, Kenneth R.
Keeler, Price M., Hempstead, N. Y., assignor to United States of America as represented by the Secretary of War. Split truncated cone antenna. 2,659,002, Nov. 10.
Keenan, Vincent J.: *See*—
Clarke, Edgar W., Doan, and Keenan.
Kelbel, Donald W., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,658,412, Nov. 10.
Keller, Clifford M., Chicago, Ill. Folding box. 2,658,660, Nov. 10.
Keller, Curt, Kusnacht, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland. Plant for the recovery of waste heat from combustible gases derived from chemical processes. 2,658,349, Nov. 10.
Kellogg, M. W., Company, The, assignee: *See*—
Palmer, George H.
Kendall, Frank A., Belgium, Wis. Feeder cup support. 2,658,709, Nov. 10.
Kenney, Clarence E., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Throttle valve operating mechanism. 2,658,484, Nov. 10.
Kent-Moore Organization, Inc., assignee: *See*—
De Kam, William G.
Keyser, Johann J., Aarau, Switzerland, assignor to Schiess Aktiengesellschaft, Dusseldorf-Oberkassel, Germany. Spinning machine drive. 2,658,327, Nov. 10.
Kiefer, Karl, Machine Company, The, assignee: *See*—
Fechheimer, Paul R.
Kimel, Walter, Highland Park, assignor to Hoffmann-La Roche Inc., Nutley, N. J. 1,1,2-trimethyl-propen-2-YL 3-oxobutanoate and its preparation. 2,658,911, Nov. 10.
Kimmel, Irvine, Miami Beach, Fla. Hinge, including a detachable leaf. 2,658,233, Nov. 10.
Kingsley, David G., Mountain Lakes, assignor to Stapling Machines Co., Rockaway, N. J. Apparatus for feeding cleats to boxmaking machines. 2,658,631, Nov. 10.
Kinsella, Howard R., St. Louis, Mo., assignor to Magic Chef, Inc. Operating signal for electric ranges. 2,659,069, Nov. 10.
Kirby, James B., West Richfield, assignor to The Apex Electrical Manufacturing Company, as trustee, Cleveland, Ohio. Washing machine. 2,658,372, Nov. 10.
Kirchensteiner, Hans, Basel, H. Klaeui, Riehen, near Basel, and H. Lindlar, Basel, Switzerland, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Reductive process for preparing pteroylglutamic acid. 2,658,896, Nov. 10.
Kistner, Herman H., Glen Ridge, N. J. Valve replacement unit. 2,658,715, Nov. 10.
Kitterman, Donald M., Kansas City, Kans. Screw-retaining clamp for power-driven screw drivers. 2,658,538, Nov. 10.
Klaeui, Heinrich: *See*—
Kirchensteiner, Hans, Klaeui, and Lindlar.
Klein, David X., Upper Montclair, T. A. Girard, Clifton, and H. R. Johnson, Glen Rock, N. J., assignors to Heyden Chemical Corporation, New York, N. Y. Manufacture of benzil. 2,658,920, Nov. 10.
Klein, Victor G., Defiance, and P. Walls, assignors to Lincoln Engineering Company, St. Louis, Mo. Lubricating apparatus. 2,658,585, Nov. 10.
Klockner-Humboldt-Deutz A. G., assignee: *See*—
Kloss, Richard.
Kloss, Richard, Koln-Buchforst, assignor to Klockner-Humboldt-Deutz A. G., Koln, Germany. Cylinder head for diesel engines. 2,658,493, Nov. 10.
Knauf, Harry V., Jr., Oaklyn, and C. A. Erdman, Jr., Haddon Heights, N. J., assignors to Radio Corporation of America. Apparatus for stacking transformer laminations within a coil window. 2,658,268, Nov. 10.
Knudsen, Thomas C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Adjustable pitch sheave. 2,658,401, Nov. 10.
Koch, Frederick, Sparta, assignor to C. Todd, Rutherford, N. J., as trustee. Stock reel. 2,658,694, Nov. 10.
Koenig, John C., Van Nuys, Calif. Farm implement hitch. 2,658,770, Nov. 10.
Kohn, Maximilian, Heidenreichstein, assignor to Bruder Eisert Aktiengesellschaft, Vienna, Austria. Friction wheel lighter. 2,658,369, Nov. 10.
Koppers Company, Inc., assignee: *See*—
D'Alello, Gaetano F.
Kopperschmidt, Wilhelm, Hamburg, Germany. Hot-spraying method and apparatus. 2,658,796, Nov. 10.
Kost, Harold W., assignor to Prestole Corporation, Toledo, Ohio. Coil form fastener. 2,658,248, Nov. 10.
Koutnik, Ludwig W., West Babylon, N. Y., assignor to F. S. Brainard, Jr., Hartford, Conn. Slide fastener of the extruded type. 2,658,250, Nov. 10.
Kozacka, Frederick J., Amesbury, Mass., assignor to The Chase-Shawmut Company. High current carrying capacity current-limiting fuses. 2,658,974, Nov. 10.
Kraemer, Fred J., Jr., Tarrytown, assignor to Dennison & Sons, Long Island City, N. Y. Triple entry posting board. 2,658,774, Nov. 10.
Krahulec, Fred, Skokie, assignor to A. C. Nielsen Company, Chicago, Ill. Rotary multpile contact switch. 2,658,963, Nov. 10.
Krems, Irving J., Bronx, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Preparation and purification of higher alkyl aryl sulfonamides and their salts. 2,658,916, Nov. 10.
Krieg, Abraham: *See*—
Gutzeit, Gregoire, and Krieg.
Kroehler Mfg. Co., assignee: *See*—
Stauffer, Edward J.
Krzesiewski, Walter, Manville, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Fan guard. 2,658,666, Nov. 10.
Kuehn, Walter L., executor: *See*—
Sengbusch, Gustav J.
Kutzler, Robert J., St. Louis Park, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Automatic steering mechanism. 2,659,041, Nov. 10.
Kwasnik, Walter, Leverkusen-Bayerwerk, assignor to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Fluorination of chlorine containing derivatives of paraffin hydrocarbons. 2,658,927, Nov. 10.
Kyhl, Robert L., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Tunable magnetron circuit. 2,659,028, Nov. 10.
Labino, Dominick, Waterville, assignor to Glass Fibers, Inc., Toledo, Ohio. Making glass paper. 2,658,848, Nov. 10.
La Briere, Nelson W., Canton, assignor to The Hoover Company, North Canton, Ohio. Floor polishing attachment for suction cleaners. 2,658,226, Nov. 10.
Ladd, Elbert C., Passaic, and H. Sargent, Glen Rock, N. J., assignors to United States Rubber Company, New York, N. Y. 1,1,6,6-tetrachloro-1,5-hexadiene. 2,658,929, Nov. 10.
Lagin, Herbert, New York, N. Y. Means for mounting lamp shades on lamp harps. 2,658,990, Nov. 10.
Lake, Clair D., Binghamton, L. A. Wilson, Vestal, D. R. Platt, Endicott, and B. M. Durfee, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Record controlled machine. 2,658,682, Nov. 10.
Lakin, Hubert W.: *See*—
Stevens, Rollin E., Lakin, and Mullins.
Landau, Ralph, Brooklyn, assignor to Chempatents, Inc., New York, N. Y. Composition for coating fabrics. 2,658,880, Nov. 10.
Lang, William H., W. A. Stover, and C. L. Gutzeit, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Aromatization reforming and catalysts for effecting the same. 2,658,858, Nov. 10.
Langdon, William K.: *See*—
Cenker, Moses, and Langdon.
Lange, Adolf H., Hyattsville, Md., assignor to Anemostat Corporation of America, New York, N. Y. Mixing and diffusing device. 2,658,440, Nov. 10.
Lansberry, Jerrold L., assignee: *See*—
Hurley, Earl H.
Lapidovsky, Piotr F., now by judicial change of name P. T. Stone, Wilmington, Del. Helicopter rotor. 2,658,575, Nov. 10.
Larsen, Arthur, assignee: *See*—
Cooper, Roy L.
Lawson, Robert H., assignor to Scott & Williams, Incorporated, Laconia, N. H. Circular multifeed hosiery knitting machine and operating same. 2,658,365, Nov. 10.
Lawton, Oscar S., New Bedford, Mass., assignor to Phillips-Jones Corporation, New York, N. Y. Folding multiply fabric construction. 2,658,535, Nov. 10.
Lazarus, David: *See*—
Dorne, Arthur, Lazarus, and Minot.
Lazna, James J., assignee: *See*—
Rizzo, Anthony A.
Leanza, William J.: *See*—
Pfister, Karl, III, and Leanza.
Leduc, René, Toulouse, France. Gas turbine housing. 2,658,338, Nov. 10.
Lee, Donovan A., Suttons Bay, Mich. Portable boat launching and beaching apparatus. 2,658,354, Nov. 10.
Lee, William M., Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. X-ray apparatus. 2,659,015, Nov. 10.
Leeds and Northrup Company, assignee: *See*—
Cherry, Robert H., Williams, and Tarpley.
Machler, Raymond C.
Legg, Victor E., Maplewood, and C. D. Owens, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Inductance coil. 2,659,057, Nov. 10.
Lehde, Henry C., Brooklyn, assignor to Control Instrument Company, Inc., New York, N. Y. Bidirectional rectifier and phase detector. 2,658,996, Nov. 10.
Lento, Louis L., Jr.: *See*—
Vingee, Raymond A., and Lento.

Leonard, Virginia: *See*—
Hare, Milton D., and Leonard.

Leroy, Louis, Altadena assignor to McCaffrey-Ruddock Tagline Corporation, Los Angeles, Calif. Dual spring take-up reel. 2,658,698, Nov. 10.

Les Usines de Melle (Societe Anonyme), assignee: *See*—
Alhéritière, Louis.
Rigon, Lino.

Levine, Arnold M.: *See*—
Grieg, Donald D., Levine, and Estes.

Lew, Baak, W., Arden, assignor to Atlas Powder Company, Wilmington, Del. Fiber bonding resin and bonded product. 2,658,849, Nov. 10.

Lewyt Corporation, assignee: *See*—
Meyerhoefer, Carl E.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Morgan, Willard L.

Liberman, Arie, Chicago, Ill. Intercommunication apparatus. 2,658,947, Nov. 10.

Lillard, William W., Beaumont, Calif. Pocket knife handle. 2,658,272, Nov. 10.

Lincoln Engineering Company, assignee: *See*—
Klein, Victor G., and Walls.

Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Nonresonant directive antenna. 2,659,004, Nov. 10.

Lindlar, Herbert: *See*—
Kirchensteiner, Hans, Klaeui, and Lindlar.

Lionel Corporation, The, assignee: *See*—
Bonanno, Joseph L., and Gash.
Pettit, Frank.

Litchfield, Anthony F., and W. B. Welsh, Manchester, England. Lidding machine. 2,658,655, Nov. 10.

Little, Arthur D., Inc., assignee: *See*—
Dawbarn, Waring L.

Little, John D.: *See*—
Du Rose, Arthur H., and Little.

Little, John D., Bay Village, assignor to The Harshaw Chemical Company, Cleveland, Ohio. Electrodeposition of nickel. 2,658,867, Nov. 10.

Livers, Carlos B., assignor to Bendix Aviation Corporation, North Hollywood, Calif. Releasable detent mechanism. 2,658,410, Nov. 10.

Lo, Chien-Pen: *See*—
Croxall, Willard J., and Lo.

Long, Charles F., and H. E. Abels, Washington, D. C. Scaffold. 2,658,803, Nov. 10.

Lorillard, P. Company, assignee: *See*—
Necas, Joseph V.

Loro, Eugene: *See*—
Webb, George L., and Loro.

Lowe, Rudy, Cranston, R. I., assignor to Proportioneers, Inc. Apparatus for proportioning materials. 2,658,644, Nov. 10.

Lucas, Joseph, Limited, assignee: *See*—
Bonsall, William.
Clarke, John S., and Huyton.
Collinson, Eric S.
Harris, Thomas A.
Ifield, Richard J.
Righton, Joseph J.

Luce, Homer J., Chicago, Ill. Shingle. 2,658,461, Nov. 10.

Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Clutching mechanism. 2,658,599, Nov. 10.

Lukasiewicz, Sigmund J., W. I. Denton, and C. J. Plank, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Catalytic hydration of olefins. 2,658,924, Nov. 10.

Lummus Company, The, assignee: *See*—
Evans, George W., Jr.

Lundstrom, Alexis A.: *See*—
Darlington, Sidney, and Lundstrom.
Holbrook, Bernard D., and Lundstrom.
Holbrook, Bernard D., Lundstrom, and Malthaner.

Lundstrom, Alexis A., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Fuze setting order computer. 2,658,676, Nov. 10.

Lundstrom, Alexis A., East Orange, and W. A. Malthaner, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regenerative tracking apparatus. 2,658,677, Nov. 10.

Luppold, George E., Jr., Los Angeles, Calif., and J. F. Shannon, Euclid, Ohio, assignors to Bailey Meter Company. Fluid relay mechanism. 2,658,516, Nov. 10.

Lusick, Stephen, assignee: *See*—
Ciccone, Nino.

Lustwerk, Ferdinand: *See*—
Neumann, Ernest P., and Lustwerk.

Lutz, Carroll T.: *See*—
Bashor, Harold T., and Lutz.

Lyon, Floyd A.: *See*—
Halahan, John, Aronson, and Lyon.

Lyon, William L., South Norwalk, Conn. Pressure responsive cutoff valve. 2,658,521, Nov. 10.

M. & W. Patents Limited, assignee: *See*—
Miller, Albert A.

MacDonald, Mortimer D., Corvallis, Oreg., assignor to State of Oregon, acting by and through the Oregon State Board of Forestry. Making composite, consolidated products and apparatus therefor. 2,658,847, Nov. 10.

MacDonough, John V., Watertown, Mass. Clarifying and stabilizing beer. 2,658,829, Nov. 10.

Machler, Raymond C., assignor to Leeds and Northrup Company, Philadelphia, Pa. Radiation pyrometry. 2,658,390, Nov. 10.

Machlett Laboratories, Incorporated, assignee: *See*—
Agule, George J.

Mackay, Johnstone S.: *See*—
Paden, Joseph H., and Mackay.

Mackay, Johnstone S., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of melamine and/or guanidine. 2,658,891, Nov. 10.

Mackert, John J., Detroit, Mich. Yieldable wiping implement. 2,658,222, Nov. 10.

MacNeil, Charles I., Shada, Cap Haitien, Haiti, West Indies, assignor to Bendix Aviation Corporation, Teterboro, N. J. Electrical apparatus. 2,659,044, Nov. 10.

Macomber, James K.: *See*—
Davis, Arthur P., and Macomber.

Madland, Gabriel, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Laterally movable door. 2,658,244, Nov. 10.

Madland, Thorvald, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Railway car construction. 2,658,245, Nov. 10.

Magic Chef, Inc., assignee: *See*—
Kinsella, Howard R.

Magill, John W., Chicago, Ill. Portable floating type breakwater unit for effecting wave energy dissipation. 2,658,350, Nov. 10.

Magnuson, A., assignee: *See*—
Magnuson, Raymond A.

Magnuson, R. A., assignee: *See*—
Magnuson, Raymond A.

Magnuson, Raymond A., assignor to R. A. Magnuson and A. Magnuson, copartners doing business as Vogel-Peterson Co., Chicago, Ill. Garment rack with hanger retaining means. 2,658,627, Nov. 10.

Mahan, Frank, Portsmouth, N. H. Battery watering gun. 2,658,653, Nov. 10.

Mahan, Marvin H.: *See*—
Holyday, William C., Jr., and Mahan.

Mahler, Harry H., Brookline, Mass. Adhesive means for attaching articles. 2,658,246, Nov. 10.

Maitland, Francis A., Pawtucket, R. I. Seal cutter. 2,658,270, Nov. 10.

Malkin, Bernard A., Lachine, Quebec, Canada. Paperboard forming machine. 2,658,429, Nov. 10.

Mallory, Edwin E., Cuyahoga Falls, assignor to National Rubber Machinery Company, Akron, Ohio. Ply stock magazine. 2,658,691, Nov. 10.

Malthaner, William A.: *See*—
Holbrook, Bernard D., Lundstrom, and Malthaner.
Lundstrom, Alexis A., and Malthaner.

Maneri, Remo R., assignor to Dow Corning Corporation, Midland, Mich. Stabilization of silicone rubber. 2,658,882, Nov. 10.

Marble, Jarvis C., trustee, assignee: *See*—
Mudersbach, Ernst H.

Marchant, Francis C. I., assignor to The Bristol Aeroplane Company Limited, Bristol, England. Braking aircraft. 2,658,334, Nov. 10.

Marco, George P., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Control system for transmissions. 2,658,403, Nov. 10.

Marcoux, Melvin W., assignor to Armour and Company, Chicago, Ill. Germicidal detergent composition. 2,658,873, Nov. 10.

Marschat, Arthur G., Whitestone, N. Y. Writing board lamp and paper holder. 2,658,989, Nov. 10.

Marsh, Nat H., Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of guanidine thiocyanate. 2,658,917, Nov. 10.

Martin, Anthony W.: *See*—
Collins, Bernard F., Cox, and Martin.

Martin, Arthur E., Concord, Calif., and J. W. Eberman, Houston, Tex., assignors to Shell Development Company, San Francisco, Calif. Corrosion inhibitor. 2,658,817, Nov. 10.

Martin, David C., Worthington, Ohio, assignor to the United States of America as represented by the United States Atomic Energy Commission. Welding beryllium and beryllium alloys. 2,658,981, Nov. 10.

Martin, William L.: *See*—
Bromberg, Robert, and Martin.

Martinez, José R., Miami, Fla. Toilet bowl flush tank deodorizer. 2,658,206, Nov. 10.

Marvin, W. B., Manufacturing Company, The, assignee: *See*—
Johnson, James B.

Master Appliance Mfg. Co., assignee: *See*—
Meltzer, Rudolph L., and H. E., and Warner.

Masterson, Earl E., Palmyra, N. J., assignor to Radio Corporation of America. Magnetic sound-recording and reproducing machine. 2,658,398, Nov. 10.

Matheson, George L.: *See*—
May, Walter G., and Matheson.

Matschke, Arthur L., Jr., Chicago, Ill. Vehicle warning device. 2,658,967, Nov. 10.

Matteson, Elwin A., assignor to The Aetna-Standard Engineering Company, Youngstown, Ohio. Sheet handling apparatus. 2,658,752, Nov. 10.

Maxfield, Harold E., Laramie, Wyo. Hook-setting device. 2,658,299, Nov. 10.

Maxwell, Earl G., St. Louis, Mo. Cooking stove. 2,658,985, Nov. 10.

May, Harry C., East McKeesport, and E. E. Hewitt, Pittsburgh, Pa., assignors to Westinghouse Air Brake Company. Combustion apparatus. 2,658,462, Nov. 10.

May, Walter G., Roselle, and G. L. Matheson, Summit, N. J., assignors to Standard Oil Development Company. Slurry polymerization process. 2,658,933, Nov. 10.

McAdam, Will: *See*—
Cherry, Robert H., Williams, Tarpley, and McAdam.

McAllaster, George R., Rochester, N. Y. Mechanism for marking and cutting trousers. 2,658,276, Nov. 10.

McBee, Earl T., and J. S. Newcomer, assignors to Purdue Research Foundation, West Lafayette, Ind. Chlorodiketone. 2,658,918, Nov. 10.

McBride, John W., assignor to Bantar, Incorporated, Burbank, Calif. Stringed musical instrument having angularly adjustable string contacting mechanisms. 2,658,419, Nov. 10.

McCabe, Helen C., assignee: *See*—
Dawson, John H.

McCaffrey-Ruddock Tagline Corporation, assignee: *See*—
Leroy, Louis.

McClay, Gordon F., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, New York, N. Y. Water seal for log barking drums. 2,658,539, Nov. 10.

McFarlane, Samuel B.: *See*—
Swerdloff, Jack, and McFarlane.

McGill, Bobby R.: *See*—
Fowler, William R., Jr., and McGill.

McGill, Daniel F., assignor to D. W. Green, Portland, Oreg., as trustee. Rotary pump and motor hydraulic transmission. 2,658,343, Nov. 10.

McGrath, John B.: *See*—
Tiedje, John L., and McGrath.

McIlvain, John G., Jr., East Caln Township, Chester County, Pa. Variable speed feed mechanism. 2,658,406, Nov. 10.

McIlvried, Edwin J., Stow, assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Wire drawing block and stripper assembly. 2,658,611, Nov. 10.

McNeely, Ernest L., assignee: *See*—
Elliott, William J., Sr.

McPherson, James B., Jr.: *See*—
Smith, Paul V., Jr., and McPherson.

Medlar, Lewis A., Oreland, and G. A. Naab, Philadelphia, Pa., assignors to J. C. Boyle, deceased, Toledo, Ohio; C. S. Thompson, administrator, assignor to C. S. Thompson, as trustee. Throttle control for automotive vehicles. 2,658,591, Nov. 10.

Melin, Thomas N., Los Angeles, Calif. Lumber stacking device. 2,658,630, Nov. 10.

Mellor Bromley & Co. Limited, assignee: *See*—
Shortland, Arthur.

Meltzer, Henry E.: *See*—
Meltzer, Rudolph L., and H. E., and Warner.

Meltzer, Rudolph L., H. E., and W. D. Warner, assignors to Master Appliance Mfg. Co., Racine, Wis. Electric drying unit. 2,658,798, Nov. 10.

Melvin, William J., Jr., Tar Heel, N. C. Frame attachment for supporting workers in planting. 2,658,768, Nov. 10.

Mendelsohn, Lewis I., Lynn, Mass., assignor to General Electric Company. Repulsion type magnetic suspension. 2,658,805, Nov. 10.

Mercier, Robert M., Paris, France. Automatic speed variator device. 2,658,399, Nov. 10.

Merck & Co., Inc., assignee: *See*—
Pfister, Karl, III, and Leanza.

Merrill, Leslie M., trustee, assignee: *See*—
Mudersbach, Ernst H.

Merrill, Wallace D., Monrovia, Calif., assignor to American Cyanamid Company, New York, N. Y. Manually operated pump duster. 2,658,301, Nov. 10.

Metal & Thermit Corporation, assignee: *See*—
Coffeen, William W., and Richter.

Meuer, George J., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,658,978, Nov. 10.

Meusy, Eugene E., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Gas valve. 2,658,514, Nov. 10.

Meyerhoefer, Carl E., assignor to Lewyt Corporation, Brooklyn, N. Y. Vacuum cleaner nozzle. 2,658,228, Nov. 10.

Mignolet, Jean, Denver, Colo. Serving, mixing, and cooking utensil. 2,658,730, Nov. 10.

Miles, John R., Des Plaines, assignor to Chicago Aerial Survey Company, Chicago, Ill. Optical system for binocular viewing devices. 2,658,422, Nov. 10.

Miller, Albert A., assignor to M. & W. Patents Limited, Coventry, England. Electrical control means for change-speed gearing. 2,658,408, Nov. 10.

Miller, Benjamin, Ozone Park, N. Y., assignor to The Chemical Foundation, Incorporated. Transportation of natural gas. 2,658,360, Nov. 10.

Miller, Carlton C.: *See*—
Haeg, Robert J., and Miller.

Miller, Donald B., Wheaton, Ill. Gas leakage test box. 2,658,434, Nov. 10.

Miller, Harry C., assignee: *See*—
Eifert, Otto H., and Thomas.

Miller, Howard J.: *See*—
Miller, Marie B. and H. J.

Miller, Marie B. and H. J., Pasadena, Calif. Cooking appliance. 2,658,643, Nov. 10.

Miller, Oliver C., Cincinnati, Ohio. Suction leaf pickup and pulverizing device. 2,658,318, Nov. 10.

Milliman, Jacob: *See*—
Allen, Richard C., and Milliman.

Milwaukee Gas Specialty Company, assignee: *See*—
D'Amore, Michael J.
Meusy, Eugene E.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.

Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Parker, Charles L. Y., Emery, and Smith.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Kutzler, Robert J.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Simons, Joseph H., Brice, and Pearlson.

Minot, Herbert P.: *See*—
Dorne, Arthur, Lazarus, and Minot.

Mirabella, Frank D., Staten Island, N. Y. Adapter for miniature tubes. 2,659,061, Nov. 10.

Mirkin, Sholem L., Johannesburg, Transvaal, Union of South Africa. Hotel guest mail and message box. 2,658,667, Nov. 10.

Moeller, Carl A.: *See*—
Claff, Clarence L., and Moeller.

Mohn, Heinrich, Haller, Kreis Gelnhausen, assignor to Heraeus Quarzschmelze G. m. b. H., Hanau (Main), Germany. Optical radiator. 2,658,984, Nov. 10.

Moloney, Raymond T., assignee: *See*—
Benak, George R.

Monaghan, Ralph: *See*—
Youmans, Arthur H., and Monaghan.

Money, Roland H., Mount Healthy, assignor to Artkraft Manufacturing Corporation, Lima, Ohio. Evaporator. 2,658,359, Nov. 10.

Monroe Auto Equipment Company, assignee: *See*—
Redding, George L.
Stoner, Frank H.

Monroe Calculating Machine Company, assignee: *See*—
Duke, Harrie J.
Fleming, Howard M.
Gang, Herman.

Montenier, Jules B., Chicago, Ill. Unitary container for atomizing. 2,658,797, Nov. 10.

Morawski, London T.: *See*—
Parker, John J., and Morawski.

Morgan, Willard L., Pittsburgh, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Working glass. 2,658,317, Nov. 10.

Morris, Reginald, Manchester, England. Sound reproducing machine. 2,658,761, Nov. 10.

Morton, George A., and L. E. Flory, Princeton, and R. L. Snyder, Jr., Glassboro, N. J., assignors to Radio Corporation of America. Rate determining device. 2,658,670, Nov. 10.

Mosher, Roland R., Jackson, Mich. Reversible turbine type fluid coupling. 2,658,345, Nov. 10.

Mosinskis, Vytautas S., Philadelphia, Pa., assignor to Piasecki Helicopter Corporation, Morton, Del. Blade pitch control mechanism. 2,658,576, Nov. 10.

Motor Products Corporation, assignee: *See*—
Eck, Floyd R.

Motor Wheel Corporation, assignee: *See*—
Hunt, J. Harold.

Motors Products Corporation, assignee: *See*—
Eck, Floyd R.

Moynihan, John J., Chicago, Ill., assignor to Stavineer Corporation. Conveyer belt. 2,658,607, Nov. 10.

Mudersbach, Ernst H., Heidelberg, Germany, assignor, by mesne assignments, to J. C. Marble, New York, N. Y., L. M. Merrill, Westfield, N. J., and P. H. Batten, Racine, Wis., trustees. Oil circulation device. 2,658,584, Nov. 10.

Muessig, Clifford W.: *See*—
Cohen, Charles A., and Muessig.

Muldoon, James N., assignee: *See*—
Harris, George S., Jr.

Mullins, Joseph F.: *See*—
Stevens, Rollin E., Lakin, and Mullins.

Murphy, Daniel, New Castle, Pa. Seal. 2,658,775, Nov. 10.

Murray Company of Texas, Inc., The, assignee: *See*—
Day, Dewey D.

Muster, Harold B.: *See*—
Allen, Edwin L., de Vito, and Muster.

Myers, Harold C., and A. O. Pukkila, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Gravity dewaxing of wax-bearing hydrocarbon fractions. 2,658,854, Nov. 10.

Naab, Gerard A.: *See*—
Medlar, Lewis A., and Naab.

Nathan Manufacturing Corp., assignee: *See*—
Swanson, Robert E.

National Furniture Manufacturing Company, Inc., assignee: *See*—
Caldemeyer, Daniel F., and Quakenbush.

National Research Council, assignee: *See*—
Gruenberg, Harry.
Smialowski, Antoni J.

National Rubber Machinery Company, assignee: *See*—
Mallory, Edwin E.

Necas, Joseph V., Tuckahoe, assignor to P. Lorillard Company, New York, N. Y. Multiple-unit packaging assembly. 2,658,612, Nov. 10.

Neef, Frederick E., Jr.: *See*—
Plossl, George W., and Neef.

Needham, James C., and L. H. H. Orton, Greenford, England, assignors to E. R. A. Patents Ltd. Alternating current arc welding equipment. 2,659,036, Nov. 10.

Nelson, Anton R., Burlingame, Calif. Electrically wound and set watch. 2,658,329, Nov. 10.

Nelson, Noral A., Royal Oak, assignor to Harry Ferguson, Inc., Detroit, Mich. Load lifter attachment for tractors. 2,658,635, Nov. 10.

Německý, Miroslav, Nove Mesto na Morave, Czechoslovakia. Dial indicator. 2,658,282, Nov. 10.

Neufeld, Alonzo J., Los Angeles, assignor to Alumni Research Foundation of The College of Medical Evangelists, Loma Linda, Calif. Fracture table. 2,658,507, Nov. 10.

Neumann, Ernest P., Lincoln, and F. Lustwerk, West Roxbury, assignors to Ultra-Mechanisms, Inc., Cambridge, Mass. Jet pump refrigeration system. 2,658,356, Nov. 10.

Newcomer, Jack S.: *See*—
McBee, Earl T., and Newcomer.

Newell, Earl L.: *See*—
Bramhall, Fay B., Newell, Wells, and Cramer.

Nicholson, James A., Toledo, Ohio. Dump truck body. 2,658,795, Nov. 10.

Nicholson, Kenneth C., assignor to The Carborundum Company, Niagara Falls, N. Y. Fluid cooled, refractory, ceramic lined rocket structure. 2,658,332, Nov. 10.

Nicoli, Ida J., Framingham, Mass. Device for manual cleaning of Venetian blind slats. 2,658,221, Nov. 10.

Nicolls, Wilfrid E. W., Pinner, assignor to C. A. V. Limited, London, England. Lubrication system for reciprocatory plunger pump. 2,658,458, Nov. 10.

Nielsen, A. C., Company, assignee: *See*—
Krahulec, Fred.

Niles-Bement-Pond Company, assignee: *See*—
Potter, William W., and Fuller.

Nitzsche, Siegfried, and E. Pirson, Burghausen, Upper Bavaria, assignors, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany. Production of hydrolyzable siloxanes. 2,658,908, Nov. 10.

Nobles, Warren H., St. Paul, Minn. Centrifugal drier. 2,658,619, Nov. 10.

Norden Laboratories Corporation, The, assignee: *See*—
Taylor, James E.

Nordmark, Walter E., and D. S. Huhta, assignors to American Seating Company, Grand Rapids, Mich. Seat support. 2,658,557, Nov. 10.

Nordmark, Walter E., assignor to American Seating Company, Grand Rapids, Mich. Chair structure. 2,658,563, Nov. 10.

Norfolk Paper Company, Inc., assignee: *See*—
Claff, Clarence L., and Moeller.

Norman, Kelso, assignee: *See*—
Talbot, Harry W.

Nutone, Inc., assignee: *See*—
Alexander, Lowell M., and Baldh.

Nutter, Irvin E., Amarillo, Tex. Means for flow control in bubble towers. 2,658,737, Nov. 10.

Oakes Manufacturing Company, The, assignee: *See*—
Hobbs, Howard H.

Oberfell, George G., Bartlesville, Okla. Shotgun barrel and choke. 2,658,298, Nov. 10.

O'Brien, Richard S., Tarrytown, and J. H. Woodruff, Auburn, N. Y., assignors to United States of America as represented by the Secretary of War. Antijamming radar system. 2,658,991, Nov. 10.

Oestreicher, Warren J., Brooklyn, N. Y., assignor to Tele King Corporation. Electrostatic deflection system. 2,659,022, Nov. 10.

Office of Scientific Research and Development, United States of America as represented by the Executive Secretary of the, assignee: *See*—
Carson, Robert H.

Ogden, Wilbert H., Fort Myers, Fla. Combined electric and gas operated range or stove. 2,658,987, Nov. 10.

Ogilvie, James, Buffalo, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Sulfonated anthraquinone naphthocarbazole dyestuffs and preparing them. 2,658,899, Nov. 10.

Ograbisz, Stephen J., Hamburg, N. Y. Cutting tool for dressing poultry. 2,658,235, Nov. 10.

Ohio Knitting Mills, Inc., assignee: *See*—
Rovas, Tobias.

Olin Industries, Inc., assignee: *See*—
Stutzman, Milo J.

Oliphant, Charles W., Tulsa, Okla. Seismic prospecting. 2,658,578, Nov. 10.

Olney, Eugene C., Bellingham, Wash. Combined micrometer device and scale. 2,658,280, Nov. 10.

Orr, Palmer, and C. L. Swift, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,658,413, Nov. 10.

Orton, Leonard H. H.: *See*—
Needham, James C., and Orton.

Osaka, Rikijiro, New York, N. Y. Combination holder. 2,658,544, Nov. 10.

Osborn Manufacturing Company, The, assignee: *See*—
Peterson, Ruben O.

Osborne, Howard S., assignee: *See*—
Osborne, Raymond G., and Boykin.

Osborne, Philip S., assignee: *See*—
Osborne, Raymond G., and Boykin.

Osborne, Raymond G., Los Angeles, and R. O. Boykin, Glendale, Calif., assignors of one-fourth to said R. G. Osborne, one-fourth to R. G. Osborne, Jr., one-fourth to H. S. Osborne, and one-fourth to P. S. Osborne. Recording device for concrete mixing drums. 2,658,731, Nov. 10.

Osborne, Raymond G., Jr., assignee: *See*—
Osborne, Raymond G., and Boykin.

Osborne, Wilbur W., Glen Rock, N. J., assignor to Curtiss-Wright Corporation. Emergency exit means for aircraft. 2,658,702, Nov. 10.

Osten, Fred C., Sr., Detroit, Mich. Window construction. 2,658,242, Nov. 10.

Owens, Conrad D.: *See*—
Legg, Victor E., and Owens.

Pace, Benjamin S., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Removal of iron contaminants from hydrocarbon synthesis products. 2,658,906, Nov. 10.

Pacific Electric Manufacturing Corp, assignee: *See*—
Umphrey, Donald M.

Pacific Pumps, Inc., assignee: *See*—
Walters, Michael E.

Paden, Joseph H., Stamford, and J. S. Mackay, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of melamine from biuret. 2,658,892, Nov. 10.

Page, John S., assignor to Page Oil Tools Inc., Long Beach, Calif. Anchor for well equipment. 2,658,459, Nov. 10.

Page Oil Tools Inc., assignee: *See*—
Page, John S.

Palmer, George H., Fanwood, assignor to The M. W. Kellogg Company, Jersey City, N. J. Refining fatty oils. 2,658,907, Nov. 10.

Palmer, Ralph L., Poughkeepsie, J. E. Fernekees, Wappingers Falls, J. A. Haddad, Fishkill, B. E. Phelps, Wappingers Falls, and J. V. Williams, Jr., Poughkeepsie, assignors to International Business Machines Corporation, New York, N. Y. Electronic calculator. 2,658,681, Nov. 10.

Pankonin, William G., Chicago, Ill. Stapling machine. 2,658,197, Nov. 10.

Paper Patents Company, assignee: *See*—
Zabel, Lowell W., Schmidt, and Caston.

Parker, Charles L. Y., Crowborough, C. W. Emery, Surbiton, and T. B. Smith, Petts Wood, England, assignors to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Apparatus for making drawings. 2,658,302, Nov. 10.

Parker, John J., and L. T. Morawski, Detroit, Mich. Chuck for holding splined workpieces. 2,658,764, Nov. 10.

Parkinson, Norman, Hayes, assignor to J. Ireland, Middlesex, England. Electrodeposition of tin-nickel alloy. 2,658,866, Nov. 10.

Pattilloch, Donald K., New York, N. Y., assignor to Chemlock Corporation, Springfield, Mass. Combining synthetic resins and other materials with cellulose. 2,658,828, Nov. 10.

Paulsen, Neal I., Minneapolis, Minn., assignor to Reynolds Metals Company, Richmond, Va. Moistureproof container. 2,658,662, Nov. 10.

Payne, Grady L., Mickleton, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Deoiling wax. 2,658,855, Nov. 10.

Pearlson, Wilbur H.: *See*—
Simons, Joseph H., Brice, and Pearlson.

Pearsall, Luther D., Fayetteville, N. C. Dust cover for automatic telephone switches. 2,658,960, Nov. 10.

Pearson, Paul A., Seattle, Wash., assignor to United States of America as represented by the Secretary of War. Radio direction finder. 2,659,082, Nov. 10.

Pechy, William, Belmar, N. J., assignor to American Can Company, New York, N. Y. Container reducing mechanism with continuous jaw faces. 2,658,549, Nov. 10.

Pellerin Milnor Corporation, assignee: *See*—
Pellerin, Willis A.

Pellerin, Willis A., assignor to Pellerin Milnor Corporation, New Orleans, La. Laundry handling receptacle. 2,658,641, Nov. 10.

Pepe, Pasquale, Everett, assignor of one-half to M. Itzkowitz, Malden, Mass. Method and apparatus for lasting open-toe shoes. 2,658,215, Nov. 10.

Perforating Guns Atlas Corporation, assignee: *See*—
Scherbatskoy, Serge A.

Perkin-Elmer Corporation, The, assignee: *See*—
Coates, Vincent J.

Perlman, Alfred H., assignor to Fral Manufacturing Co., Chicago, Ill. Tire chain cross-link and anchor assembly. 2,658,547, Nov. 10.

Perry, Joseph C., assignor to Agrashell, Inc., Los Angeles, Calif. Manufacture of laminates. 2,658,840, Nov. 10.

Perry, Stephen F., Westfield, and R. M. Bailly, Little Silver, N. J., assignors to Standard Oil Development Company. Refining and stabilizing waxes. 2,658,856, Nov. 10.

Petcar Trust, assignee: *See*—
Peters, Melville F.

Peters, Byron M., Lathrop, Calif. Cultivating implement. 2,658,437, Nov. 10.

Peters, Melville F., East Orange, N. J., assignor, by mesne assignments, to S. Scrivener, Jr., trustee of the Petcar Trust. Fire detection system. 2,659,067, Nov. 10.

Petersen, Peter A.: *See*—
Clauser, Raymond M., and Petersen.

Peterson, Adolphe C., Minneapolis, Minn. Gas turbine system of intermittent combustion type. 2,658,335, Nov. 10.

Peterson, Ruben O., University Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Buff and making same. 2,658,315, Nov. 10.

Peterson, Walter H.: *See*—
Stross, Fred H., Abrams, and Peterson.

Pettit, Frank, Union, N. J., assignor to The Lionel Corporation, New York, N. Y. Toy smoke-producing apparatus. 2,658,303, Nov. 10.

Pettit, Frank, Union, N. J., assignor to The Lionel Corporation, New York, N. Y. Merchandise unloading toy car. 2,658,307, Nov. 10.

Pettit, Frank, Union, N. J., assignor to The Lionel Corporation, New York, N. Y. Combined truck and coupler for toy railroads. 2,658,629, Nov. 10.

Pevere, Ernest F., and H. V. Hess, Beacon, and G. B. Arnold, Glenham, assignors to The Texas Company, New York, N. Y. Hydrogenation of coal. 2,658,861, Nov. 10.

Pfaudler Company, The, assignee: *See*—
Greene, Otto W.

Pfister, Karl, III, Westfield, N. J., and W. J. Leanza, Staten Island, N. Y., assignors to Merck & Co., Inc., Rahway, N. J. Alpha-methyl glutamic acid and salts and preparation. 2,658,912, Nov. 10.

Pharis, William W., Rochester, N. Y., assignor to Stromberg-Carlson Company. Telephone selector circuit. 2,658,949, Nov. 10.

Phelps, Byron E.: *See*—
Palmer, Ralph L., Fernekees, Haddad, Phelps, and Williams.

Phillips-Jones Corporation, assignee: *See*—
Lawton, Oscar S.

Phillips Petroleum Company, assignee: *See*—
Piety, Raymond G.
Reynolds, William B.

Piasecki Helicopter Corporation, assignee: *See*—
Mosinskis, Vytautas S.

Platt, Donald R.: *See*—
Lake, Clair D., Wilson, Platt, and Durfee.

Pierce, Frederick E., Hanover, N. H. Peat milling and handling machine. 2,658,290, Nov. 10.

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Rotational seismometer. 2,659,064, Nov. 10.

Pirson, Ewald: *See*—
Nitzsche, Siegfried, and Pirson.

Place, Charles L., Norfolk, Conn. Flexible endless belt construction. 2,658,402, Nov. 10.

Plank, Charles J.: *See*—
Lukasiewicz, Sigmund J., Denton, and Plank.

Platts, Benjamin: *See*—
Kaplan, Sol, and Platts.

Plossl, George W., West Springfield, and F. E. Neef, Jr., Longmeadow, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Holding device for bubble caps. 2,658,738, Nov. 10.

Poliansky, Alejandro, Buenos Aires, Argentina. Brake and clutch device. 2,659,021, Nov. 10.

Polomski, John B., Jr., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Braking system. 2,658,592, Nov. 10.

Pompili, Wilson W., Cleveland, Ohio. Sound chamber for accordion pickup. 2,658,420, Nov. 10.

Porter, Howard C., Fairfield, Ill., assignor to Chefford Master Manufacturing Co. Inc. Diaphragm for pumps. 2,658,526, Nov. 10.

Potter, William W., and A. J. Fuller, Pawtucket, R. I., assignors to Niles-Bement-Pond Company, West Hartford, Conn. Machine tool drive. 2,658,404, Nov. 10.

Powell, Edward R.: *See*—
Speil, Sidney, and Powell.

Power Jets (Research and Development) Ltd., assignee: *See*—
Howell, Alun R.

Power Jets (Research & Development) Limited, assignee: *See*—
Cohen, Henry.
Walker, Daniel N.

Premo Pharmaceutical Laboratories, Inc., assignee: *See*—
Blackman, Seymour N.

Premoli, Luigi, Milan, Italy. Vehicle spring suspension system. 2,658,748, Nov. 10.

Pressure Gauges Limited, assignee: *See*—
Grant, Charles R. A.

Prestole Corporation, assignee: *See*—
Kost, Harold W.

Proportioneers, Inc., assignee: *See*—
Lowe, Rudy.

Pukkila, Arnold O.: *See*—
Myers, Harold C., and Pukkila.

Purdue Research Foundation, assignee: *See*—
McBee, Earl T., and Newcomer.

Pusey & Jones Corporation, The, assignee: *See*—
Goldsmith, Philip H.

Putt, J Lewis, Huntington Station, N. Y. Internal-combustion engine. 2,658,489, Nov. 10.

Putzrath, Franz L., Pennsauken, N. J., assignor to Radio Corporation of America. Magnetic recording art. 2,658,953, Nov. 10.

Quakenbush, Howard M.: *See*—
Caldemeyer, Daniel F., and Quakenbush.

Quittner, Victor, assignor to General Radiological Limited, London, England. Operation of X-ray tubes. 2,659,016, Nov. 10.

Quoniam, Jean M., Heinitz Sarre, assignor to Regie des Mines de la Sarre, Sarrebruck, France. Coal cutting or loading machine. 2,658,739, Nov. 10.

Rabenda, Edward J., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Accounting machine for handling nondecimal entries. 2,658,683, Nov. 10.

Rachlin, Albert I.: *See*—
Goldberg, Moses W., and Rachlin.

Radio Corporation of America, assignee: *See*—
Albee, Arthur C., and Ward.
Canfora, Arthur E.
Del Valle, Guillermo A., and Jones.
Epstein, David W.
Harbaugh, Willis E.
Knauf, Harry V., Jr., and Erdman.
Lindenblad, Nils E.
Masterson, Earl E.
Morton, George A., Flory, and Snyder.
Putzrath, Franz L.
Roys, Henry E.
Seeley, Stuart W.
Uselman, George L.

Rafferty, Arthur W., Sacramento, Calif. Header strainer for liquid lines. 2,658,625, Nov. 10.

Ramirez, Ernest J.: *See*—
Gutzeit, Gregoire, and Ramirez.

Ranney, Percival K., Lakewood, and C. R. Kazebee, assignors to The France Manufacturing Co., Cleveland, Ohio. Apparatus for operating gaseous discharge tube devices. 2,659,035, Nov. 10.

Ransburg, Edwin M., assignor to Ransburg Electro-Coating Corp., Indianapolis, Ind. Electrostatic coating apparatus. 2,658,472, Nov. 10.

Ransburg Electro-Coating Corp., assignee: *See*—
Ransburg, Edwin M.

Rauglas, Gerard, Minneola, Fla. Locking device. 2,658,777, Nov. 10.

Redding, George L., assignor to Monroe Auto Equipment Company, Monroe, Mich. Sway bar bushing applying machine. 2,658,269, Nov. 10.

Redner, Arthur D., Farmington, assignor to General Filters, Inc., Detroit, Mich. Filter. 2,658,624, Nov. 10.

Reed Roller Bit Company, assignee: *See*—
Stokes, John C.

Reese, Garland W., Chappaqua, assignor to American Can Company, New York, N. Y. Fiber container. 2,658,663, Nov. 10.

Regie des Mines de la Sarre, assignee: *See*—
Quoniam, Jean M.

Reilly Tar and Chemical Corporation, assignee: *See*—
Cislak, Francis E.
Horner, Harold R.

Remington Rand Inc., assignee: *See*—
Braun, Karl J.

Rendel, George H., Pittsburgh, Pa., assignor to United States Steel Corporation. Heating circuit and method. 2,658,982, Nov. 10.

Renner, E. A., assignee: *See*—
Gallo, Paul P.

Republic Steel Corporation, assignee: *See*—
Whitehouse, Irving P., and Graham.

Research Corporation, assignee: *See*—
Wintermute, Harry A.

Resina Automatic Machinery Company Inc., assignee: *See*—
Schweizer, Max N.

Rex, Carl A. M., assignor of one-half to J. F. Govan and one-half to R. H. Govan, Hoboken, N. J. Protecting metal surfaces, composition therefor, and article resulting therefrom. 2,658,834, Nov. 10.

Reynolds Metals Company, assignee: *See*—
Paulsen, Neal I.

Reynolds, William B., Bartlesville, Okla., assignor to Phillips Petroleum Company. Diazo thioethers as blowing agents in production of sponge rubber and the like. 2,658,876, Nov. 10.

Ribeiro, Walter G., Camden, N. J. Water-reservoir construction. 2,658,520, Nov. 10.

Richards, Paul I.: *See*—
Huggins, William H., and Richards.

Richardson, Henry D., East Providence, R. I. Burial vault construction. 2,658,253, Nov. 10.

Richardson, Robert D., assignor to The Hays Corporation, Michigan City, Ind. Gas measuring device. 2,658,384, Nov. 10.

Richardson, Robert D., assignor to The Hays Corporation, Michigan City, Ind. Gas measuring device. 2,658,385, Nov. 10.

Richardson, Rodney G., deceased, and J. Fink, Delavan, Wis.; said Fink assignor to The George W. Borg Corporation, Delavan, Wis.; Rodney G. Richardson, Jr., administrator of said R. G. Richardson. Automobile clock. 2,658,328, Nov. 10.

Richardson, Rodney G., Jr., administrator: *See*—
Richardson, Rodney G., and Fink.
Richter, Hartmut W.: *See*—
Coffeen, William W., and Richter.
Richterkessing, Frank H., Louisville, and W. M. Cissell, St. Matthews, assignors to W. M. Cissell Mfg. Company, Incorporated, Louisville, Ky. Steam finishing board. 2,658,370, Nov. 10.
Rider, Paul M., Wewoka, Okla. Oil trap for vacuum lines of wells. 2,658,581, Nov. 10.
Ridings, Garvice H.: *See*—
Wise, Raleigh J., and Ridings.
Rieber, Frank, deceased, New York, N. Y., by L. Rieber, executrix, New York, N. Y., assignor to Geovision Incorporated. Geophysical display system. 2,658,579, Nov. 10.
Rieber, L., executrix: *See*—
Rieber, Frank.
Riepka, Hellmuth C.: *See*—
Welides, Erich, Riepka, and Uebelmann.
Righton, Joseph J., Acocks Green, Birmingham, assignor to Joseph Lucas, Limited, Birmingham, England. Liquid fuel supply system for prime movers or furnaces. 2,658,565, Nov. 10.
Rigon, Lino, Melle, assignor to Les Usines de Melle (Societe Anonyme), Saint-Leger-les-Melle, France. Making anhydrides. 2,658,914, Nov. 10.
Rizo-Patrón R., Alfonso, San Isidro, Lima, Peru. Recovering precious and base metals. 2,658,827, Nov. 10.
Rizzo, Anthony A., East Cleveland, assignor of one-fifth to J. J. Lazna, Cleveland Heights, Ohio. Method and apparatus for molding heel lifts. 2,658,238, Nov. 10.
Robbins, Jesse J., Glendale, Calif., assignor to Stylofede Corporation. Baby crib mattress elevator. 2,658,207, Nov. 10.
Roberts, James A.: *See*—
Fischer, Howard R., and Roberts.
Robertshaw-Fulton Controls Company, assignee: *See*—
Caparone, Michael J., and Vaughn.
Jackson, Wilbur F.
Robertson, Frank H., Carisbrooke, Isle-of-Wight, assignor to Saunders-Roe Limited, Isle-of-Wight, England. Flying control for aircraft. 2,658,701, Nov. 10.
Robillard, André A., assignor to Compagnie Auxiliaire des Mines, Douai, France. Accumulator battery. 2,658,938, Nov. 10.
Robinson Aviation, Inc., assignee: *See*—
Titus, Elwin S.
Rock, Arthur F., assignor to General Dry Batteries, Inc., Lakewood, Ohio. Dry cell battery. 2,658,936, Nov. 10.
Rock, George L. Jonesville, Mich., assignor to Vaco Products Company, Chicago, Ill. Screw driver construction. 2,658,766, Nov. 10.
Rockwell Manufacturing Company, assignee: *See*—
Scherer, George F.
Roedel, George F.: *See*—
Boldebuck, Edith M., Elliott, and Roedel.
Roediger, Joseph C., Staten Island, N. Y., assignor to Standard Oil Development Company. Bituminous saturant. 2,658,857, Nov. 10.
Roemer, John J.: *See*—
Kaiser, Donald W., and Roemer.
Roemer, John J., Stamford, and D. W. Kaiser, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of halodiaminotriazines. 2,658,893, Nov. 10.
Rohm & Haas Company, assignee: *See*—
Croxall, Willard J., and Lo.
Urban, Richard S.
Rona, Emil, Ingolstadt, Germany. Self-regulating alternating current generator with self-excited exciter. 2,659,045, Nov. 10.
Rose, Leslie: *See*—
Givens, John H., Rose, and Whyte.
Rosenthal, Samuel, Cleveland, Ohio. Pants pressing machine. 2,658,649, Nov. 10.
Rotax Limited, assignee: *See*—
Bourne, William G.
Rovas, Tobias, assignor of forty percent to Ohio Knitting Mills, Inc., Cleveland, Ohio. Guide for warp beams. 2,658,699, Nov. 10.
Rowell, Lorne A., Lachine, Quebec, assignor to Imperial Tobacco Company of Canada, Limited, Montreal, Quebec, Canada. Tobacco cleaner and classifier. 2,658,617, Nov. 10.
Royl, Charles E., Lockhart, Tex. Air conditioning of parked vehicles. 2,658,439, Nov. 10.
Roys, Henry E., Haddon Heights, N. J., assignor to Radio Corporation of America. Phonograph pickup device and the like. 2,658,763, Nov. 10.
Ruff, Richard J.: *See*—
Suter, Harold R., and Ruff.
Runde, Kenneth R., Lemay, assignor to James R. Kearney Corporation, St. Louis, Mo. Clamp stick. 2,658,784, Nov. 10.
Russell, Norman C., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Fluorescent light socket. 2,659,058, Nov. 10.
Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Baler conveying and feeding means. 2,658,323, Nov. 10.
Rutledge, Carl M., Ringwood, and F. Alter, Pistauqua Heights, assignors to American Steel Box Corporation, Chicago, Ill. Foldable golf bag carrier. 2,658,771, Nov. 10.
Ryan, John J.: *See*—
Aldino, Charles J., and Ryan.
Sagady, Calman S., Ecorse, assignor to Bendix Aviation Corporation, Detroit, Mich. Leak valve. 2,658,519, Nov. 10.
St. Thomas Inc., assignee: *See*—
Weydener, Otto, and St. Thomas.
St. Thomas, William H.: *See*—
Weydener, Otto, and St. Thomas.
Salisbury, Winfield W., assignor to Collins Radio Company, Cedar Rapids, Iowa. Variable frequency cyclotron. 2,659,000. Nov. 10.
Salvin, Victor S.: *See*—
Adams, John R., Jr., and Salvin.
Sanitary Seale Company, assignee: *See*—
Karp, Edward C., and Berglund.
Sargent, Herbert: *See*—
Ladd, Elbert C., and Sargent.
Sartin, Jarvis G., Hattiesburg, Miss., assignor to Hercules Powder Company, Wilmington, Del. Wood gathering apparatus. 2,658,638, Nov. 10.
Sarvoy, Elmer, Miami, Fla. Camera belt support. 2,548,435, Nov. 10.
Sattler, Edward J., Mineral City, Ohio. Fruit gathering ladder. 2,658,601, Nov. 10.
Saunders-Roe Limited, assignee: *See*—.
Robertson, Frank H.
Saurborn, Edward: *See*—
Hughes, George E., and Saurborn.
Savage Arms Corporation, assignee: *See*—
Sullivan, William E.
Sayer, Laurence R., San Leandro, Calif. Indicator device. 2,659,066, Nov. 10.
Schaper, Hans: *See*—
Aurbach, Kurt, and Schaper.
Scherbatskoy, Serge A., Tulsa, assignor to Perforating Guns Atlas Corporation, Houston, Tex. Radioactiyity well logging system. 2,659,014, Nov. 10.
Scherer, George F., Oakland, Calif., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa. Automatic lubrication. 2,658,713, Nov. 10.
Scheurer, Paul P., Wichita Falls, Tex. Air heating furnace for above and below floor mounting. 2,658,503, Nov. 10.
Schiess Aktiengesellschaft, assignee: *See*—
Keyser, Johann J.
Schlitt, William M., Bay City, Mich. Plant basket removing implement. 2,658,309, Nov. 10.
Schmerling, Louis, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Production of ketones. 2,658,919, Nov. 10.
Schmidt, Job, and F. Frielinghaus, assignors to Westfalenhutte, Dortmund Aktiengesellschaft, Dortmund, Germany. Rolling mill for rolling strips or bands and sheets of steel and nonferrous metals. 2,658,741, Nov. 10.
Schmidt, Robert W.: *See*—
Zabel, Lowell W., Schmidt, and Caston.
Scholl, William M., Chicago, Ill. Molded and tapering latex insole for footwear. 2,658,288, Nov. 10.
Schonitzer, Rudolph L., assignee: *See*—
Allen, Edwin L.
Schonitzer, Rudolph L., assignee: *See*—
Allen, Edwin L., de Vito, and Muster.
Schrieber, Herbert S., Sleepy Eye, Minn. Footwear calk assembly. 2,658,289, Nov. 10.
Schuit, George C. A., and J. J. B. V. van Voorthuysen, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Nickel catalyst and preparation thereof. 2,658,875, Nov. 10.
Schultz, Edward H., Milwaukee, Wis. Hydraulic fluid seal. 2,658,809, Nov. 10.
Schultz, Paul E., Wichita, Kans. Making confections. 2,658,830, Nov. 10.
Schweizer, Max N., New York, assignor to Resina Automatic Machinery Company Inc., Brooklyn, N. Y. High-speed capping machine. 2,658,654, Nov. 10.
Scott, Benjamin B., Jr., Schenectady, N. Y. Winding and packaging coils. 2,658,263, Nov. 10.
Scott, Clifford O., Fort Mitchell, Ky. Sliding door construction for vehicle bodies. 2,658,792, Nov. 10.
Scott & Williams, Incorporated, assignee: *See*—
Lawson, Robert H.
Shelmire, Stanley R.
Scovill Manufacturing Company, assignee: *See*—
Simpson, Richard W.
Scrivener, Samuel, Jr., trustee, assignee: *See*—
Peters, Melville F.
Sears, Joseph N., assignor to L. J. Carr & Co., Sacramento, Calif. Structural board from wood waste, extracted flour of soya beans and melamine-urea formaldehyde resin. 2,658,878, Nov. 10.
Seeley, Stuart W., Roslyn Heights, N. Y., assignor to Radio Corporation of America. Loran transmitter. 2,658,993, Nov. 10.
Seinfeld, Ludwik R., New Providence Townshin, Union County, assignor to De Laval Steam Turbine Company, Trenton, N. J. Impeller with center intake. 2,658,455, Nov. 10.
Seng, James H. Salina, Kans. Tractor mounting for agricultural implements. 2,658,438. Nov. 10.
Sengbusch, Frederick G., executor: *See*—
Sengbusch, Gustav J.

Sengbusch, Gustav J., deceased, Milwaukee, Wis.; W. L. Kuehn, and F. G. Sengbusch, executors, assignors to Sengbusch Self-Closing Inkstand Company, Milwaukee, Wis. Sponge cup. 2,658,474, Nov. 10.
Sengbusch Self-Closing Inkstand Company, assignee: *See*—
Sengbusch, Gustav J.
Severance, Harley L., Madison, Wis. Combination water and room heater. 2,658,502, Nov. 10.
Seybold, Frederick W., Westfield, N. J. Rotary, turbine-type fluid coupling. 2,658,346, Nov. 10.
Shank, Ray M., Goshen, Ind. Automobile door lock protector. 2,658,376, Nov. 10.
Shanley, Edward S., Grand Island, and H. O. Kauffmann, Eggertsville, assignors to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y. Stabilized hydrogen peroxide and making same. 2,658,818, Nov. 10.
Shannon, Jack F.: *See*—
Luppold, George E., Jr., and Shannon.
Shannon, Jack F., Euclid, Ohio, assignor to Bailey Meter Company. Diaphragm type expansible chamber operator. 2,658,525, Nov. 10.
Sharples Corporation, The, assignee: *See*—
Davis, Walter C., and Bath.
Sheer, Charles, New York, N. Y. Arterial pulse wave velocity meter. 2,658,505, Nov. 10.
Shell Development Company, assignee: *See*—
Ballard, Seaver A., and Whetstone.
Hyman, Julius, and Danish.
Hyman, Julius, and Silverman.
Martin, Arthur E., and Eberman.
Schuit, George C. A., and van Voorthuysen.
Stross, Fred H., Abrams, and Peterson.
Van Dijck, Willem J. D.
Shelmire, Stanley R., assignor to Scott & Williams, Incorporated, Laconia, N. H. Knitting machine. 2,658,366, Nov. 10.
Sherr, Rubby, Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Moving object pulse echo detection system. 2,659,078, Nov. 10.
Sherwood, Yorke, Los Angeles, Calif. Fixture casing. 2,658,201, Nov. 10.
Shortland, Arthur, assignor to Mellor Bromley & Co. Limited, Leicester, England. Means for feeding yarns in knitting machines. 2,658,367, Nov. 10.
Shusett, David R., Beverly Hills, and M. N. Berezny, Huntington Park, Calif., said Berezny assignor to said Shusett. Automatic car washer. 2,658,216, Nov 10.
Siegel, Morris B., assignor to Bryn Mawr Smokers Novelty Co., Chicago, Ill. Cigarette lighter. 2,658,368, Nov. 10.
Silverman, Milton: *See*—
Hyman, Julius, and Silverman.
Simmons Company, assignee: *See*—
Travis, Don C.
Simmons, Luella A., Los Angeles, Calif. Cooking spoon holder for attachment to cooking vessels. 2,658,363, Nov. 10.
Simons, Abraham, Monsey, N. Y. Lapping tool. 2,658,314; Nov. 10.
Simons, Joseph H., T. J. Brice, and W. H. Pearlson, State College, Pa., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Making fluorocarbon chlorides and bromides by thermal chlorination and bromination of fluorocarbon hydrides. 2,658,928, Nov. 10.
Simpson, Richard W., Cheshire, assignor to Scovill Manufacturing Company, Waterbury, Conn. Tape end for quick-release zippers. 2,658,251, Nov. 10.
Sinclair, Kenneth C., Detroit, Mich. Automobile draft control deflector. 2,658,793, Nov. 10.
Singer Manufacturing Company, The, assignee: *See*—
Krzesiewski, Walter.
Slettengren, Anders I. K., assignor, by mesne assignments, to Aktiebolaget Svetsmekano, Goteborg, Sweden. Tool holder, particularly for sheet-metal working machines. 2,658,574, Nov. 10.
Smellie, Donald G., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaning tool having an air pressure actuated nozzle area varying means. 2,658,229, Nov. 10.
Smialowski, Antoni J., assignor to National Research Council, Ottawa, Ontario, Canada. Variable area discharge nozzle for jet engines. 2,658,333, Nov. 10.
Smith, Delbert F., Shawnee, Okla. Connector clip. 2 658,965, Nov. 10.
Smith, Hamilton, Clifton, N. J. Outlet box holder. 2,658,704, Nov. 10.
Smith, Leonard C., Berea, Ohio. Valve lift recorder. 2,658,812, Nov. 10.
Smith, Leslie W., Berkley, Mich. Spray gun nozzle for spraying buffing compounds. 2,658,312, Nov. 10.
Smith, Paul V., Jr., Westfield, and J. B. McPherson, Jr., Roselle, N. J., assignors to Standard Oil Development Company. Lubricating composition. 2,658,871, Nov. 10.
Smith, Robert L.: *See*—
Drake, Leonard C., and Smith.
Smith, Tom B.: *See*—
Parker, Charles L. Y., Emery, and Smith.
Smith, Victor W., assignor to C. V. Hill & Company, Inc., Trenton, N. J. Refrigerating system. 2,658,357, Nov. 10.
Smith, William V.: *See*—
Clogston, Albert M., and Smith.
Smook, Malcolm A.: *See*—
Brooks, Richard E., and Smook.
Snell, Chester A.: *See*—
De Rosa, John A., and Snell.
Snyder, Harold R., Perkasie, Pa. Holder for fishing line leaders. 2,658,300, Nov. 10.
Snyder, Richard L., Jr.: *See*—
Morton, George A., Flory, and Snyder.
Sobaski, Genevieve, assignee: *See*—
Sobaski, Walter J.
Sobaski, Walter J., assignor to G. Sobaski, Chicago, Ill. Quick-acting hold-down clamp. 2,658,540, Nov. 10.
Societe Anonyme Andre Citroen, assignee: *See*—
Du Rostu, Georges L.
Société Anonyme so-called: Compagnie Electro-Mecanique, assignee: *See*—
Johanson, Knut.
Societe de Recherches Techniques et d'Exploitations Industrielles, assignee: *See*—
Trembley, Fernand.
Societe Rhodiaceta, assignee: *See*—
Issartial, Claude.
Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Andress, Harry J., Jr.
Drake, Leonard C., and Smith.
Johnson, George C.
Lang, William H., Stover, and Gutzeit.
Lukasiewicz, Sigmund J., Denton, and Plank.
Myers, Harold C., and Pukkila.
Payne, Grady L.
Soucek, Robert H., assignee: *See*—
Bayles, Donald C.
Soule, Arthur H., San Marino, assignor to Continental Specialties Company, Ltd., Los Angeles, Calif. Awning type window. 2,658,750, Nov. 10.
Southworth, George H., assignor to Corning Glass Works, Corning, N. Y. Glass working implement temperature control. 2,658,687, Nov. 10.
Speakman Company, assignee: *See*—
Fraser, James.
Specter, Sanford L., Lynbrook, and S. R. Hacker, Forest Hills, N. Y. Convertible table chair. 2,658,554, Nov. 10.
Spell, Sidney, Somerville, and E. R. Powell, North Plainfield, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Melting furnace. 2,658,743, Nov. 10.
Spengler, Walter J., Sidney, assignor to Bendix Aviation Corporation, New York, N. Y. Coupling. 2,658,362, Nov. 10.
Spillman, Max: *See*—
Hoffmann, Karl, and Spillmann.
Sprouse, Verner E., Columbus, Ind. Composite fan hub 2,658,577, Nov. 10.
Spurlin, William V., Indiana, assignor to Syntron Company, Homer City, Pa. Helical vibratory conveyer. 2,658,286, Nov. 10.
Staatsbedrijf der Posterijen, Telegrafie en Telefonie, assignee: *See*—
Van Duuren, Hendrik C. A.
Stahel, Hermann, Zurich, Switzerland. Making polishing disks. 2,658,802, Nov. 10.
Standard Coil Products Co. Inc., assignee: *See*—
Gossard, Thomas F.
Standard Oil Company, assignee: *See*—
Hengstebeck, Robert J.
Standard Oil Development Company, assignee: *See*—
Cohen, Charles A., and Muessig.
Fischer, Wilbur F.
Hollyday, William C., Jr., and Mahan.
May, Walter G., and Matheson.
Perry, Stephen F., and Bailly.
Roediger, Joseph C.
Smith, Paul V., Jr., and McPherson.
Tiedje, John L., and McGrath.
Welty, Albert B., Jr.
Stanolind Oil and Gas Company, assignee: *See*—
Cordell, Ralph L.
Pace, Benjamin S.
Stapling Machines Co., assignee: *See*—
Kingsley, David G.
State of Oregon, acting by and through the Oregon State Board of Forestry, assignee: *See*—
MacDonald, Mortimer D.
Stauffer, Edward J., assignor to Kroehler Mfg. Co., Naperville, Ill. Couch-bed construction. 2,658,208, Nov. 10.
Stavineer Corporation, assignee: *See*—
Moynihan, John J.
Stehr, Georg, Kappeln-Schlei, Germany. Sewing machine housing. 2,658,465, Nov. 10.
Steinbaugh, Clara E., executrix, assignee: *See*—
Steinbaugh, John F.
Steinbaugh, John F., deceased, by C. E. Steinbaugh, executrix, Newark, Ohio. Fishing reel. 2,658,697, Nov. 10.
Steinbrecker, Freddy: *See*—
Eserkaln, Theodore F., and Steinbrecker.
Stelzer, William, Summit, N. J. Hydraulic booster brake system. 2,658,347, Nov. 10.
Stelzer, William, Summit, N. J. Booster brake mechanism. 2,658,348, Nov. 10.

Sterling Drug Inc., assignee : *See*—
Tullar, Benjamin F., and Feldkamp.

Sterling, George B. : *See*—
Dreisbach, Robert R., and Sterling.

Stevens, Donald R., Wilkinsburg, and S. C. Camp, Gibsonia, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Sulfurization of di-isobutylene. 2,658,900, Nov. 10.

Stevens, J. P., & Co., Inc., assignee : *See*—
Waldrop, Morris M.

Stevens, Rollin E., Vienna, Va., H. W. Lakin, Silver Spring, Md., and J. F. Mullins, Washington, D. C. Apparatus for carrying out spot test analyses. 2,658,820, Nov. 10.

Stevens, Samuel S., Plattsburg, N. Y. Papermaking machine. 2,658,430, Nov. 10.

Stevens, Samuel S., Plattsburg, N. Y. Papermaking machine. 2,658,431, Nov. 10.

Stewart, Donald C. : *See*—
Crandall, Howard W., and Stewart.

Stewart, Mary A., Canandaigua, N. Y. Chair for group photography. 2,658,353, Nov. 10.

Stockland Road Machinery Co., assignee : *See*—
Waller, Ralph D.

Stokes, John C., assignor to Reed Roller Bit Company, Houston, Tex. Core taking apparatus. 2,658,726, Nov. 10.

Stone, Peter T. : *See*—
Lapidovsky, Piotr F.

Stoner, Frank H., Monroe, Mich., assignor to Monroe Auto Equipment Company. Collapsible dumping box. 2,658,647, Nov. 10.

Stover, William A. : *See*—
Lang, William H., Stover, and Gutzeit.

Stradtmann, Friedrich H., Dusseldorf, Germany. Gate valve. 2,658,712, Nov. 10.

Stroh, Walter J., Franklin Park, Ill., assignor to Zenith Radio Corporation. Coupling device. 2,659,056, Nov. 10.

Stromberg-Carlson Company, assignee : *See*—
Pharis, William W.

Stross, Fred H., and S. T. Abrams, Berkeley, and W. H. Peterson, Richmond, assignors to Shell Development Company, San Francisco, Calif. Grease compositions. 2,658,869, Nov. 10.

Stryker, Garrett B., Fullerton, assignor to Hunt Foods, Inc., Los Angeles, Calif. Retort basket loader. 2,658,651, Nov. 10.

Stuart, Robert J., Waukegan, Ill., and A. D. Gunderson, assignors to George Gorton Machine Co., Racine, Wis. Cutter spindle and feed mechanism therefor. 2,658,423, Nov. 10.

Stutzman, Milo J., Kansas City, Mo., assignor to Olin Industries, Inc., East Alton, Ill. Classifying iron shot. 2,658,616, Nov. 10.

Stylofede Corporation, assignee : *See*—
Robbins, Jesse J.

Sullivan, William E., Springfield, Mass., assignor to Savage Arms Corporation, Utica, N. Y. Adjustable lawn mower handle bracket construction. 2,658,322, Nov. 10.

Sulzer Frères, Societe Anonyme, assignee : *See*—
Traupel, Walter.

Sunbeam Corporation, assignee : *See*—
Jepson, Ivar.

Surface Combustion Corporation, assignee : *See*—
Hughes, George E., and Saurborn.

Suter, Harold R., Wyandotte, and R. J. Ruff, Detroit, Mich. Catalytic fume incineration. 2,658,742, Nov. 10.

Sutton, Otis B., Canton, assignor to The Hoover Company, North Canton, Ohio. Nozzle structure for suction cleaning apparatus. 2,658,230, Nov. 10.

Swanson, Bernard A., Seattle, Wash. Pneumatic hammer. 2,658,481, Nov. 10.

Swanson, Robert E., Vancouver, British Columbia, Canada, assignor, by mesne assignments, to Nathan Manufacturing Corp. Sound producing device. 2,658,470, Nov. 10.

Swerdloff, Jack, Bloomfield, and S. B. McFarlane, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y. Production of polyurethanes by a continuous process. 2,658,886, Nov. 10.

Swift, Clifford L. : *See*—
Orr, Palmer, and Swift.

Synchromatic Corporation, assignee : *See*—
Jaye, Richard C., and Hirtz.

Syntron Company, assignee : *See*—
Spurlin, William V.

T. M. M. (Research) Limited, assignee : *See*—
Haythornthwaite, James J., and Haighton.

Talbot, Harry W., assignor to K. Norman, San Francisco, Calif. Electric soldering iron. 2,658,983, Nov. 10.

Talmage, Homer R., assignor to Bowser, Inc., Fort Wayne, Ind. Dispensing apparatus. 2,658,240, Nov. 10.

Talmey, Paul, Barrington, and W. J. Crehan, Hinsdale, assignors to General American Transportation Corporation, Chicago, Ill. Chemical nickel plating. 2,658,839, Nov. 10.

Tarpley, Raymond E. : *See*—
Cherry, Robert H., Williams, and Tarpley.

Tarris, Joseph, Lincoln Park, Mich. Golf score cardholder. 2,658,773, Nov. 10.

Taub, Alex, assignor to Taub Engineering Company, Washington, D. C. Internal-combustion engine. 2,658,488, Nov. 10.

Taub Engineering Company, assignee : *See*—
Taub, Alex.

Taylor, James E., New York, assignor to The Norden Laboratories Corporation, White Plains, N. Y. Apparatus for converting direct current into alternating current. 2,659,043, Nov. 10.

Taylor, John : *See*—
Cuppett, Charles H., and Taylor.

Taylor, William H., Mentor-on-the-Lake, Ohio. Poppet valve. 2,658,492, Nov. 10.

Tcheong, Joana d'A. Y. H., Bangkok, Siam. Washing apparatus with cushion and drainage facilities. 2,658,512, Nov. 10.

Teetor, Paul, Somerville, C. Grove, Basking Ridge, and C. W. Heller, Bound Brook, N. J., assignors to Central Commercial Company, Chicago, Ill. Coating mineral granules. 2,658,838, Nov. 10.

Tele King Corporation, assignee : *See*—
Oestreicher, Warren J.

Tellier, Andries W., Hilversum, Netherlands, Suction box. 2,658,789, Nov. 10.

Texas Company, The, assignee : *See*—
Arnold, George B., Truitt, and Hess.
Pevere, Ernest F., Hess, and Arnold.

Textile Marking Machine Co. Inc., assignee : *See*—
Braun, Philip N.

Thelander, W. Vincent, Auburn, Ind., assignor to Dana Corporation, Toledo, Ohio. Friction clutch plate. 2,658,598, Nov. 10.

Thibault, Harrison N. : *See*—
Donoghue, Florence F., and Thibault.

Thomas, Edwin M., assignee : *See*—
Harris, George S., Jr.

Thomas, Howard S., Jr. : *See*—
Eiffert, Otto H., and Thomas.

Thomas Hydraulic Speed Controls, Inc., assignee : *See*—
Thomas, John R.

Thomas, John R., assignor to Thomas Hydraulic Speed Controls, Inc., Wichita, Kans. Variable speed hydraulic clutch. 2,658,595, Nov. 10.

Thompson, Charles S., administrator, trustee, assignee : *See*—
Medlar, Lewis A., and Naab.

Thompson, Ralph B., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Production of polyhaloalkanes. 2,658,930, Nov. 10.

Thorne, Edwin D., Dayton, Ohio. Selective electrical switching means for combined radio and television receivers. 2,659,001, Nov. 10.

Thornhill-Craver Co., Inc., assignee : *See*—
Thornhill, Homer E.

Thornhill-Craver Company, assignee : *See*—
Thornhill, Homer E.

Thornhill, Homer E., assignor to Thornhill-Craver Company, Houston, Tex. Fluid cleaning apparatus. 2,658,622, Nov. 10.

Thornhill, Homer E., assignor to Thornhill-Craver Co., Inc., Houston, Tex. Fluid cleaning apparatus. 2,658,623, Nov. 10.

Thresh, Frank R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening inserting machine. 2,658,198, Nov. 10.

Tibbetts, Otto S., Chicago, Ill. Detachable coupling for electrical cables. 2,659,062, Nov. 10.

Tiedje, John L., and J. B. McGrath, Sarnia, Lambton, Ontario, Canada, assignors to Standard Oil Development Company. Manufacturing low melting point plastic waxes. 2,658,852, Nov. 10.

Tindale, John : *See*—
Coales, John F., Elliott, Hill, Hersom, and Tindale.

Titus, Elwin S., Ridgewood, assignor to Robinson Aviation, Inc., Teterboro, N. J. Vibration isolation unit. 2,658,710, Nov. 10.

Todd, C., trustee, assignee : *See*—
Koch, Frederick.

Tonks, Lewi, Scotia, N. Y., and J. F. Hull, Asbury Park, N. J., assignors to the United States of America as represented by the Secretary of the Army. Output connection for magnetron. 2,659,027, Nov. 10.

Torbert, Charles W., Oklahoma City, Okla. Finger controlled sponge covered spray head. 2,658,219, Nov. 10.

Trammell, Earl M., Jr. : *See*—
Trammell, Earl M., Sr., and E. M. Trammell, Jr.

Trammell, Earl M., Sr., and E. M. Trammell, Jr., St. Louis, Mo. Window balance-tape retainer. 2,658,234, Nov. 10.

Trapani, August G., Jr., Covington, assignor of one-half to J. J. Aertker, Jr., Baton Rouge, La. Warning bulb. 2,658,467, Nov. 10.

Traupel, Walter, assignor to Sulzer Frères, Societe Anonyme, Winterthur, Switzerland. Pressure control system for gas turbine plants. 2,658,336, Nov. 10.

Travis, Don C., assignor to Simmons Company, Kenosha, Wis. Self-tilting bed. 2,658,209, Nov. 10.

Travis, Don C., assignor to Simmons Company, Kenosha, Wis. Stop mechanism for sectionally adjustable beds. 2,658,210, Nov. 10.

Trembley, Fernand, Bellerive, Geneva, assignor to Societe de Recherches Techniques et d'Exploitations Industrielles, Geneva, Switzerland. Silencer for internal-combustion engines. 2,658,580, Nov. 10.

Trexel, Carl A., assignor to Ben C. Gerwick, Inc., San Francisco, Calif. Apparatus and method for the placement of caissons. 2,658,353, Nov. 10.

Tribbitt, Frank, Chicago, Ill. Dispensing valve for dispensing measured quantities. 2,658,648, Nov. 10.

Trico Products Corporation, assignee : *See*—
Enochian, Samuel H.

Truitt, James K. : *See*—
Arnold, George B., Truitt, and Hess.

Trylińska, Beata : *See*—
Tryliński, Wladyslaw, Sr. and W. Tryliński, Jr., and Trylińska.

Tryliński, Wladyslaw, Jr. : *See*—
Tryliński, Wladyslaw, Sr. and W. Tryliński, Jr., and Trylińska.

Tryliński, Wladyslaw, Sr., Milanówek, W. Tryliński, Jr., and B. Trylińska, Warsaw, Poland. Improvement in railway tracks. 2,658,688, Nov. 10.

Tschudy, Donald B., Canton, assignor to The Hoover Company, North Canton, Ohio. Multistage fan for suction cleaners. 2,658,665, Nov. 10.

Tullar, Benjamin F., East Greenbush, and R. F. Feldkamp, Troy, assignors to Sterling Drug Inc., New York, N. Y. Preparation of thiophene and alkylated thiophenes. 2,658,903, Nov. 10.

Tunstead, Charles W. : *See*—
Brink, Raymond J., and Tunstead.

Turner, Daniel L. : *See*—
Johnson, William S., and Turner.

Turner, Donald B., Petaluma, assignor to Western Condensing Company, San Francisco, Calif. Sediment testing apparatus. 2,658,387, Nov. 10.

Twin Disc Clutch Company, assignee : *See*—
Wolf, Lloyd J.

Uebelmann, Otto : *See*—
Weides, Erich, Riepka, and Uebelmann.

Ultra-Mechanisms, Inc., assignee : *See*—
Neumann, Ernest P., and Lustwerk.

Umphrey, Donald M., Palo Alto, Calif., assignor to Pacific Electric Manufacturing Corp. Hydraulic circuit breaker actuating mechanism. 2,658,969, Nov. 10.

United Shoe Machinery Corporation, assignee : *See*—
Bradley, Robert L.
Hart, George T.
Thresh, Frank R.

United States Atomic Energy Commission, United States of America as represented by the, assignee : *See*—
Bromberg, Robert, and Martin.
Crandall, Howard W., and Stewart.
Davis, Doyle M., and Hart.
Donelian, Khatchik O.
Farly, George M.
Martin, Dav'd C.

U. S. Bobbin & Shuttle Company, assignee : *See*—
Gosselin, Wilfrid J.

United States Rubber Company, assignee : *See*—
Ladd, Elbert C., and Sargent.

United States Steel Corporation, assignee : *See*—
Bannister, Bryant.
Rendel, George H.

Universal Oil Products Company, assignee : *See*—
Schmerling, Louis.
Thompson, Ralph B.

Urban, Richard S., assignor to Rohm & Haas Company, Philadelphia, Pa. Preparing dimethoxydecadienes. 2,658,922, Nov. 10.

Urschel, Joe R., Valparaiso, Ind. Sectionalizing machine for extrudable cuttable material. 2,658,542, Nov. 10.

Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Degeneratively stabilized amplifier circuit. 2,658,957, Nov. 10.

Vaco Products Company, assignee : *See*—
Rock, George L.

Vallen, Earl J., Akron, Ohio. Curtain carrier designed to operate on curved track. 2,658,572, Nov. 10.

Vanderkamp, John, West Orange, N. J. Melting point apparatus. 2,658,382, Nov. 10.

Van Dijck, Willem J. D., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Self-winding and self-transporting reel. 2,658,256, Nov. 10.

Van Duuren, Hendrik C. A., Wassenaar, assignor to Staatsbedrijf der Posterijen, Telegrafie en Telefonie, The Hague, Netherlands. Telegraph signal regenerator apparatus. 2,658,944, Nov. 10.

Vannah, William E., assignor to The Foxboro Company, Foxboro, Mass. Pressure indicating pneumatic transmission system. 2,658,392, Nov. 10.

Van Patten, Ernest W., McLean, Va. Banded package and forming the same. 2,658,614, Nov. 10.

Van Voorthuysen, Jan J. B. V. : *See*—
Schmit, George C. A., and van Voorthuysen.

Vaughn, Charles M. : *See*—
Caparone, Michael J., and Vaughn.

Vaughn Machinery Company, The, assignee : *See*—
McIlvried, Edwin J.

Velazquez, Edmundo D., Mexico City, Mexico. Sliding device combined with automatic brakes for automotive vehicles. 2,658,587, Nov. 10.

Ver Doot, Henry, Jr., assignor to Fort Howard Paper Company, Green Bay, Wis. Removing dry paper trim. 2,658,427, Nov. 10.

Verweel, Jan, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Magnetron. 2,659,030, Nov. 10.

Vibber, Alfred W., assignee : *See*—
Howard, Henry F.

Vingee, Raymond A., Stamford, and L. L. Lento, Jr., Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of product containing sodium acid cyanamide. 2,658,825, Nov. 10.

Vogel-Peterson Co., assignee : *See*—
Magnuson, Raymond A.

Vogel, Walter, London, England. Separation of solid materials of different specific gravities. 2,658,618, Nov. 10.

Volckening, Lloyd I., Glen Ridge, assignor to Ivers-Lee Company, Newark, N. J. Nose or eye drop package. 2,658,613, Nov. 10.

Wacker-Chemie G. m. b. H., assignee : *See*—
Nitzsche, Siegfried, and Pirson.

Wahlmark, Gunnar A., Rockford, Ill. Fluid displacement device. 2,658,456, Nov. 10.

Waldorf Paper Products Company, assignee : *See*—
Hennessey, Russell J.

Waldrop, Morris M., Greenville, S. C., assignor to J. P. Stevens & Co., Inc. Traverse motion for yarn winding machines and the like. 2,658,689, Nov. 10.

Walker, Daniel N., Manorcroft, Ashby Parva, near Rugby, assignor to Power Jets (Research & Development) Limited, London, England. Manufacture and attachment of turbine and like blading. 2,658,718, Nov. 10.

Wallace, R., & Sons Manufacturing Company, assignee : *See*—
Hall, Rolland G.

Waller, Ralph D., Macomb, Ill., assignor to Stockland Road Machinery Co., Minneapolis, Minn. Scoop for tractors. 2,658,634, Nov. 10.

Wallgren, August G. F., Stockholm, Sweden. Double row roller bearing. 2,658,807, Nov. 10.

Walls, Paul : *See*—
Klein, Victor G., and Walls.

Walters, Michael E., assignor to Pacific Pumps, Inc., Huntington Park, Calif. Nonclogging pumping device. 2,658,453, Nov. 10.

War, United States of America as represented by the Secretary of, assignee : *See*—
Alford, Andrew.
Allen, Richard C., and Milliman.
Benfield, Adalbert E.
Bess, Leon.
Byrne, John F.
Christensen, John W., Granger, and Wedel.
Clay, John P., and Elkins.
Clogston, Albert M., and Smith.
Cohn, Seymour B.
Crawford, Franzo H.
Cunningham, Frederic, Jr.
Dorne, Arthur, Lazarus, and Minot.
Emslie, Alfred G.
Hare, Milton D., and Leonard.
Herb, Raymond G.
Huggins, William H.
Huggins, William H., and Richards.
Keeler, Price M.
Kyhl, Robert L.
O'Brien, Richard S., and Woodruff.
Pearson, Paul A.
Sherr, Rubby.
Woods, John P.

Ward, Hugh C. : *See*—
Albee, Arthur C., and Ward.

Warner, William D. : *See*—
Meltzer, Rudolph L. and H. E., and Warner.

Watton, Leonard H. N. : *See*—
Brown, Roland, and Watton.

Webb, George L., Logansport, Ind., and E. Loro, Lancaster, Ohio, assignors to Essex Wire Corporation, Logansport, Ind. Fuse clip. 2,659,063, Nov. 10.

Wedel, John J. : *See*—
Christensen, John W., Granger, and Wedel.

Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Stand for travel irons. 2,658,293, Nov. 10.

Wehmiller, Frederick W., Ladue, assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Conveying apparatus. 2,658,608, Nov. 10.

Weides, Erich, Langel, near Porz (Rhine), H. C. Riepka, Porz (Rhine), and O. Uebelmann, Langel, near Porz (Rhine), Germany. Electric resistance. 2,658,980, Nov. 10.

Welch, Clinton M., Sault Sainte Marie, Mich. Rotary pump and motor hydraulic transmission. 2,658,344, Nov. 10.

Well Surveys, Incorporated, assignee : *See*—
Youmans, Arthur H., and Monaghan.

Wells, Lawrence V., assignor to Wilcox-Gay Corporation, Charlotte, Mich. Negative feedback frequency response compensation amplifier system. 2,658,958, Nov. 10.

Wells, Philip H. : *See*—
Bramhall, Fay B., Newell, Wells, and Cramer.

Welsh, William B. : *See*—
Litchfield, Anthony F., and Welsh.

Welshenbach, Charles D. : *See*—
Aquino, Salvatore A., and Welshenbach.

Welty, Albert B., Jr., Deer Path, Mountainside, N. J., assignor to Standard Oil Development Company. Separation of contaminated catalyst particles in a hydrocarbon conversion process. 2,658,860, Nov. 10.

Western Condensing Company, assignee : *See*—
Turner, Donald B.

Western Electric Company, Incorporated, assignee: *See*—
Fernald, Russell G.
Russell, Norman C.
Western Union Telegraph Company, The, assignee: *See*—
Bramhall, Fay B., Newell, Wells, and Cramer.
Wise, Raleigh J., and Ridings.
Westfalenhutte Dortmund Aktiengesellschaft, assignee: *See*—
Schmidt, Job, and Frielinghaus.
Westinghouse Air Brake Company, assignee: *See*—
May, Harry C., and Hewitt.
Wettstein, Erwin, Zurich, assignor to FKG Fritz Kesselring Geratebau, Aktiengesellschaft, Bachtobel-Weinfelden, Switzerland. Electric contact device. 2,658,971, Nov. 10.
Weyandt, Carl S., Homer City, Pa. Dual motor material handling device. 2,658,609, Nov. 10.
Weydener, Otto, and W. H. St. Thomas, assignors to St. Thomas Inc., Gloversville, N. Y. Pocket case for paper currency. 2,658,545, Nov. 10.
Wheeler, William O., Indianapolis, Ind. Food container for deep fat frying. 2,658,444, Nov. 10.
Whetstone, Richard R.: *See*—
Ballard, Seaver A., and Whetstone.
White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Nozzle adjustment for suction cleaners. 2,658,227, Nov. 10.
Whitehouse, Irving P., South Euclid, and M. E. Graham, Parma, assignors, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio. Selectively chloridizing manganese in the treatment of materials containing iron and manganese. 2,658,813, Nov. 10.
Whitlock, Edwin L.: *See*—
Kane, Edward, and Whitlock.
Whitman, Elmore F., Maywood, Ill., assignor to American Can Company, New York, N. Y. Tray hanger. 2,658,705, Nov. 10.
Whyte, Eric J.: *See*—
Givens, John H., Rose, and Whyte.
Wickham, Parker B.: *See*—
Johnston, Samuel A., and Wickham.
Wiemer, Kurt F. G., Bad Toelz, Germany. Method of and apparatus for transmitting audio messages. 2,658,948, Nov. 10.
Wiesman, Frank H., Mount Healthy, Ohio. Device for inducing sleep and rest. 2,659,073, Nov. 10.
Wiklund, Hendrik S.: *See*—
Wilén, Rolf K. E., and Wiklund.
Wilcox, Burr C., Dayton, Ohio. Structural rod joint. 2,658,776, Nov. 10.
Wilcox-Gay Corporation, assignee: *See*—
Wells, Lawrence V.
Wilén, Rolf K. E., and H. S. Wiklund, Helsingfors, Finland. Arrangement in a screw press for squeezing out water. 2,658,445, Nov. 10.
Williams, Albert J., Jr.: *See*—
Cherry, Robert H., Williams, and Tarpley.
Williams, James V., Jr.: *See*—
Palmer, Ralph L., Fernekees, Haddad, Phelps, and Williams.
Wilson, Albert K.: *See*—
Ellis, Howard, and Wilson.
Wilson, Herbert W., assignor to The Hoover Company, North Canton, Ohio. Support for electric irons. 2,658,292, Nov. 10.
Wilson, Lawrence A.: *See*—
Lake, Clair D., Wilson, Platt, and Durfee.
Wilson, Robert O., Rockford, Ill. Cuff link. 2,658,249, Nov. 10.
Winfree, Robert N., Lynchburg, Va. Manual and automatic valve. 2,658,716, Nov. 10.
Winslow, Raymond M., assignor to Winston and Newell Company, Minneapolis, Minn. Conveyer for banana bunches. 2,658,610, Nov. 10.
Winston and Newell Company, assignee. *See*—
Winslow, Raymond M.
Wintermute, Harry A., Plainfield, N. J., assignor to Research Corporation, New York, N. Y. Liquid washed electrical precipitator. 2,658,582, Nov. 10.
Wirth, Emil O., and F. Barfod, assignors to Bendix Aviation Corporation, South Bend, Ind. Fuel feed and power control device for gas turbines. 2,658,566, Nov. 10.
Wisconsin Alumni Research Foundation, assignee: *See*—
Johnson, William S., and Turner.
Wise, Raleigh J., Arlington, and G. H. Ridings, Summit, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Optical scanning device. 2,658,940, Nov. 10.
Witherell, Robert R., assignor to Eureka Williams Corporation, Bloomington, Ill. Oil burner. 2,658,567, Nov. 10.
Wolf, Lloyd J., assignor to Twin Disc Clutch Company, Racine, Wis. Winding mechanism. 2,658,692, Nov. 10.
Wolf, Lloyd J., assignor to Twin Disc Clutch Company, Racine, Wis. Winding mechanism. 2,658,693, Nov. 10.
Wolff, Ernst, Bochum-Linden, Germany. Coke oven door frame. 2,658,865, Nov. 10.
Wolman, Abel, and W. A. Hazlett, Baltimore, Md. Sanitary waste treatment and disposal for vehicles. 2,658,202, Nov. 10.
Woodruff, John H.: *See*—
O'Brien, Richard S., and Woodruff.
Woods, John P., Dallas, Tex., assignor to the United States of America as represented by the Secretary of War. Mechanical tuning device. 2,658,393, Nov. 10.
Woodward, Teynham, Los Altos, Calif., assignor to Food Machinery and Chemical Corporation, New York, N. Y. Producing active magnesium oxide. 2,658,814, Nov. 10.
Woolsey, Phyllis A., Indianola, Iowa. Cake plate and decorating device. 2,658,297, Nov. 10.
Wright, Clayton B., Malden, Mass. Supporting pipe clamp. 2,658,706, Nov. 10.
Wyandotte Chemicals Corporation, assignee: *See*—
Cenker, Moses, and Langdon.
Wymbs, Roy P., Fredericksburg, Va., assignor to American Viscose Corporation, Wilmington, Del. Sizing medium and film sized therewith. 2,658,835, Nov. 10.
Youmans, Arthur H., and R. Monaghan, assignors to Well Surveys, Incorporated, Tulsa, Okla. Method and apparatus for compensation for the effects of temperature and voltage fluctuations on scintillation counters. 2,659,011, Nov. 10.
Young, Don H., and G. A. Houseman, Phoenix, Ariz. Luminous sign. 2,658,295, Nov. 10.
Youngstown Steel Door Company, assignee: *See*—
Beauchamp, Wilfred A.
Youngstown Steel Door Company, The, assignee: *See*—
Madland, Gabriel.
Madland, Thorvald.
Zabel, Lowell W., and R. W. Schmidt, Neenah, and R. H. Caston, Appleton, assignors to Paper Patents Company, Neenah, Wis. Indicating and recording equipment. 2,659,048, Nov. 10.
Zenith Radio Corporation, assignee: *See*—
Stroh, Walter J.
Ziese, Carl H., Oklahoma City, Okla. Tool for changing fluorescent lamp tubes. 2,658,786, Nov. 10.
Ziese, Carl H., Oklahoma City, Okla. Tool for changing fluorescent lamp tubes. 2,658,787, Nov. 10.
Zuckerman, Milton, Brooklyn, N. Y. Delay switch. 2,658,975, Nov. 10.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 10TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Canopy construction. S. B. Korman and M. Harrison. Re. 23,734, Nov. 10.
Crown cap removing and retaining implement. J. Belpedio. Re. 23,731, Nov. 10.
Fracturing formations in wells. R. F. Farris. Re. 23,733, Nov. 10.
Grid mounting for color television picture tubes. R. G. Olson. Re. 23,735, Nov. 10.
Work holder. D. M. Cleveland. Re. 23,732, Nov. 10.

LIST OF PLANT INVENTIONS

Peach tree. H. C. Peterson. 1,228, Nov. 10.
Rose plant. R. L. Byrum. 1,227, Nov. 10.
Rose plant. A. Krebs. 1,226, Nov. 10.

LIST OF DESIGN INVENTIONS

Awning or similar article. C. S. White. 170,843, Nov. 10.
Bar, Traffic. G. A. Wiswell. 170,844, Nov. 10.
Birdhouse. S. F. Rebora. 170,833, Nov. 10.
Bottle and display carton therefor, Combined. E. de Kolb. 170,794, Nov. 10.
Brooch or the like. A. Katz. 170,807–8, Nov. 10.
Brooch or the like. A. Katz. 170,811, Nov. 10.
Brooch or the like. A. Katz. 170,813–14, Nov. 10.
Brooch or the like. A. Katz. 170,816, Nov. 10.
Brooch or the like. A. Katz. 170,820, Nov. 10.
Cabinet, Base. H. R. Trout and F. M. Hill. 170,839, Nov. 10.
Candleholder. R. C. McLean. 170,827, Nov. 10.
Chair. H. Bertoia. 170,790–1, Nov. 10.
Christmas tree ornament. A. Glorklint. 170,799, Nov. 10.
Coin holder and clip, Combined. C. M. Del Mas. 170,796, Nov. 10.
Dagger, Throwing. G. J. Kundikoff. 170,824, Nov. 10.
Earring or the like. A. Katz. 170,809–10, Nov. 10.
Earring or the like. A. Katz. 170,812, Nov. 10.
Earring or the like. A. Katz. 170,815, Nov. 10.
Earring or the like. A. Katz. 170,817–19, Nov. 10.
Earring or the like. A. Katz. 170,821–3, Nov. 10.
Fryer unit or the like. R. C. Sandin. 170,835, Nov. 10.
Girdle. L. Melnick. 170,826, Nov. 10.
Handle for tools, Adjustable. F. De Fazi. 170,793, Nov. 10.
Heater, Portable. V. C. Hines and A. B. Callahan, Jr. 170,804, Nov. 10.
Helmet. L. H. Pfohl. 170,831, Nov. 10.
Holder, Cigarette. S. Wolf. 170,845, Nov. 10.
Inkwell. A. M. Morris and F. L. Schaeffer. 170,828, Nov. 10.
Instrument for locating holes for door locks. A. Schoepe. 170,836, Nov. 10.
Lamp, Table. J. Vigon. 170,841, Nov. 10.
Lighter, Table. S. F. Speers. 170,838, Nov. 10.
Necklace or similar article. R. Semensohn. 170,837, Nov. 10.
Plaque. C. M. Del Mas. 170,795, Nov. 10.
Plaque or similar article, Wall. M. Henfield. 170,803, Nov. 10.
Plastic sheeting or the like. E. S. Mover. 170,829, Nov. 10.
Playing cards, Set of. C. B. Griffiths. 170,801, Nov. 10.
Radio-phonograph cabinet panel. S. E. Adler. 170,789, Nov. 10.
Razor and shaving cream dispenser, Combined. E. S. Lovasz. 170,825, Nov. 10.
Rosary bead. C. M. Del Mas. 170,797, Nov. 10.
Shaker. E. S. Tupper. 170,840, Nov. 10.
Shirt. R. F. Greer. 170,800, Nov. 10.
Stone shield, Automobile. H. W. Pilkey. 170,832, Nov. 10.
Stone shield, Automobile. C. C. Voss. 170,842, Nov. 10.
Toilet seat or similar article, Corner. W. A. Inman. 170,806, Nov. 10.
Toolholder. B. W. and L. O. Dundon. 170,798, Nov. 10.
Toy, Automotive. E. Handler. 170,802, Nov. 10.
Vase and fruit bowl, Combined. M. Parrish. 170,830, Nov. 10.
Vehicle for golfers and the like. H. R. Rogant. 170,834, Nov. 10.
Watch bracelet, Expansible wrist. R. F. Boehm. 170,792, Nov. 10.
Window actuator. R. H. Hummert. 170,805, Nov. 10.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 10TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerator device, Auxiliary foot. C. A. Eversman. 2,658,411, Nov. 10.
Accounting machine for handling nondecimal entries. E. J. Rabenda. 2,658,683, Nov. 10.
Acrylonitrile polymers dissolved in solvent mixtures comprising nitromethane and water. R. G. Beaman. 2,658,879, Nov. 10.
Active magnesium oxide, Producing. T. Woodward. 2,658,814, Nov. 10.
Adapter for miniature tubes. F. D. Mirabella. 2,659,061, Nov. 10.
Adhesive means for attaching articles together. H. H. Mahler. 2,658,246, Nov. 10.
Air conditioning of parked vehicles. C. E. Royal. 2,658,439, Nov. 10.
Air release for water tanks. P. W. Harland and L. D. Johnson. 2,658,518, Nov. 10.
Alignment indicator. J. F. Honey. 2,659,050, Nov. 10.
All weather salt block. H. Futter. 2,658,476, Nov. 10.
Alpha-methyl glutamic acid and salts and preparation. K. Pfister, III and W. J. Leanza. 2,658,912, Nov. 10.
Amplifier, High efficiency radio-frequency power. W. H. Doherty. 2,658,959, Nov. 10.
Anchor, Expanding earth. W. L. Hollander. 2,658,590, Nov. 10.
Anchor for well equipment. J. S. Page. 2,658,459, Nov. 10.
Anhydrides, Making. L. Rigon. 2,658,914, Nov. 10.
Antenna, Microwave. H. Gruenberg. 2,659,005, Nov. 10.
Antenna mountable in small spaces. A. Dorne, D. Lazarus, and H. P. Minot. 2,659,003, Nov. 10.
Antenna, Nonresonant directive. N. E. Lindenblad. 2,659,004, Nov. 10.
Antenna, Split truncated cone. P. M. Keeler. 2,659,002, Nov. 10.
Anthraquinone dyestuffs. J. R. Adams, Jr. and V. S. Salvin. 2,658,898, Nov. 10.
Antibacklash fishing reel. R. L. Cooper. 2,658,696, Nov. 10.
Apparatus and method for the placement of caissons. C. A. Trexel. 2,658,353, Nov. 10.
Apparatus and process for the production of photosynthetic microorganisms, particularly algae. P. M. Cook. 2,658,310, Nov. 10.
Apparatus for applying paste to wallpaper. O. Bledsoe. 2,658,471, Nov. 10.
Apparatus for carrying out spot test analyses. R. E. Stevens, H. W. Lakin, and J. F. Mullins. 2,658,820, Nov. 10.
Apparatus for cleaning filter screens. A. H. Bahnson, Jr. 2,658,621, Nov. 10.
Apparatus for converting direct current into alternating current. J. E. Taylor. 2,659,043, Nov. 10.
Apparatus for feeding cleats to boxmaking machines. D. G. Kingsley. 2,658,631, Nov. 10.
Apparatus for finishing gears. C. J. Aldino and J. J. Ryan. 2,658,259, Nov. 10.
Apparatus for handling granular material. R. G. Fernald. 2,658,603, Nov. 10.
Apparatus for igniting fuel in fast-moving hot gas streams. H. Cohen. 2,658,340, Nov. 10.
Apparatus for making drawings. C. L. Y. Parker, C. W. Emery, and T. B. Smith. 2,658,302, Nov. 10.
Apparatus for making pleated curtains. H. Bender. 2,658,551, Nov. 10.
Apparatus for measuring chemical activity, particularly of catalysts. J. M. Fornwalt. 2,658,819, Nov. 10.
Apparatus for operating gaseous discharge tube device. P. K. Ranney and C. R. Kazebee. 2,659,035, Nov. 10.
Apparatus for producing carbon black. H. L. Ammann. 2,658,821, Nov. 10.
Apparatus for proportioning materials. R. Lowe. 2,658,644, Nov. 10.
Apparatus for removing excess solder from soldered articles. R. G. Hall. 2,658,466, Nov. 10.
Apparatus for stacking transformer laminations within a coil window. H. V. Knauf, Jr. and C. A. Erdman, Jr. 2,658,268, Nov. 10.
Apparatus for the manufacture of foamed products. S. W. Alderfer. 2,658,736, Nov. 10.
Apparatus for timing a balance wheel assembly. S. A. Johnston and P. B. Wickham. 2,658,381, Nov. 10.
Arc welding equipment, Alternating current. J. C. Needham and L. H. H. Orton. 2,659,036, Nov. 10.
Armrest. F. W. Cawthon. 2,658,560, Nov. 10.
Armrest for beds. S. Bendersky. 2,658,211, Nov. 10.
Armrest for motor vehicles. N. S. Beebe. 2,658,559, Nov. 10.
Aromatization reforming and catalysts for effecting the same. W. H. Lang, W. A. Stover, and C. L. Gutzeit. 2,658,858, Nov. 10.
Arrangement in a screw press for squeezing out water. R. K. E. Wilén and H. S. Wiklund. 2,658,445, Nov. 10.
Arterial pulse wave velocity meter. C. Sheer. 2,658,505, Nov. 10.
Auto park, Mechanical. F. J. Baume. 2,658,632, Nov. 10.
Autodyne converter. J. W. Christensen, J. V. Granger, and J. J. Wedel. 2,658,995, Nov. 10.
Automatic car washer. D. R. Shusett and M. N. Berezny. 2,658,216, Nov. 10.
Automatic livestock feeder. O. T. Hallum. 2,658,477, Nov. 10.
Automatic lubrication. G. F. Scherer. 2,658,713, Nov. 10.
Automatic selection control for drum-type storage files. J. L. and C. C. Clough. 2,658,513, Nov. 10.
Automobile door lock protector. R. M. Shank. 2,658,376, Nov. 10.
Automobile draft control deflector. K. C. Sinclair. 2,658,793, Nov. 10.
Badge meter. D. M. Davis and J. C. Hart. 2,659,013, Nov. 10.
Balance scheduling means for listing calculating machines, Automatic. H. J. Duke. 2,658,669, Nov. 10.
Baler conveying and feeding means. S. D. Russell. 2,658,323, Nov. 10.
Ball rolling board and control therefor, Shiftable. G. R. Benak. 2,658,755, Nov. 10.
Base materials for frozen desserts. J. R. Katz. 2,658,831, Nov. 10.
Basket loader, Retort. G. B. Stryker. 2,658,651, Nov. 10.
Bathtub. G. B. Hansburg. 2,658,204, Nov. 10.
Battery, Accumulator. A. A. Robillard. 2,658,938, Nov. 10.
Battery, Dry cell. A. F. Rock. 2,658,936, Nov. 10.
Battery, Electrical storage. E. S. Chapman. 2,658,937, Nov. 10.
Battery watering gun. F. Mahan. 2,658,653, Nov. 10.
Bearing: *See*—
Double row roller bearing.
Bed, Self-tilting. D. C. Travis. 2,658,209, Nov. 10.
Belt construction, Flexible endless. C. I. Place. 2,658,402, Nov. 10.
Benzil, Manufacture of. D. X. Klein, T. A. Girard, and H. R. Johnson. 2,658,920, Nov. 10.
Bevatron acceleration regulation. G. M. Farly. 2,658,999, Nov. 10.
Bismuth stannate and compositions employing same. W. W. Coffeen and H. W. Richter. 2,658,833, Nov. 10.
Bit and bit clamp. J. D. Dann. 2,658,740, Nov. 10.
Bituminous saturant. J. C. Roediger. 2,658,857, Nov. 10.
Blade assembly for disconnect switches. G. E. Heberlein. 2,658,964, Nov. 10.
Blade pitch control mechanism. V. S. Mosinskis. 2,658,576, Nov. 10.
Blind stitch machine. A. Greco. 2,658,464, Nov. 10.
Block: *See*—
All weather salt block.
Board: *See*—
Steam finishing board. Triple entry posting board.
Boat launching and beaching apparatus, Portable. D. A. Lee. 2,658,354, Nov. 10.
Boiler for steamships, Tube type. R. M. Clauser and P. A. Petersen. 2,658,988, Nov. 10.
Booster battery carting and emergency servicing equipment. E. W. and V. D. Anderson. 2,659,042, Nov. 10.
Bottle carrier. M. G. Hall. 2,658,659, Nov. 10.
Box: *See*—
Collapsible dumping box. Gas leakage test box.
Electrically heated lunch box. Hotel guest mail and message box.
Folding box. Suction box.
Box of the suitcase type, Paperboard. S. A. Aquino and C. D. Welshenbach. 2,658,661, Nov. 10.
Box setting-up machine. C. L. Claff and C. A. Moeller. 2,658,433, Nov. 10.
Brake and clutch device. A. Pollansky. 2,659,021, Nov. 10.
Brake for drawworks, Air. A. A. Ashton. 2,658,589, Nov. 10.
Brake mechanism, Booster. W. Stelzer. 2,658,348, Nov. 10.

Brake mechanism for looms, Shuttle. D. Casals. 2,658,532, Nov. 10.
Brake shoe, Nonsquealing sheet metal. J. H. Hunt. 2,658,473, Nov. 10.
Brake system, Hydraulic booster. W. Stelzer. 2,658,347, Nov. 10.
Braking aircraft. F. C. I. Marchant. 2,658,334, Nov. 10.
Braking system. J. B. Polomski, Jr. 2,658,592, Nov. 10.
Breakwater unit for effecting wave energy dissipation, Portable floating type. J. W. Magill. 2,658,350, Nov. 10.
Brick wall, Portable. F. R. Allen. 2,658,379, Nov. 10.
Bridging. D. B. Houghton, Jr. 2,658,241, Nov. 10.
Buff and making same. R. O. Peterson. 2,658,315, Nov. 10.
Burner: *See*—
Oil burner. Pan type oil burner.
Burner mounting for warm air heaters. G. E. Hughes and E. Saurborn. 2,658,569, Nov. 10.
Butyraldehyde, Manufacturing. L. Alhéritière. 2,658,921, Nov. 10.
Cable containing fluid under pressure, Power. E. W. Greenfield and A. C. Connell. 2,658,939, Nov. 10.
Cake plate and decorating device. P. A. Woolsey. 2,658,297, Nov. 10.
Calculator, Electronic. R. L. Palmer, J. E. Fernekees, J. A. Haddad, B. E. Phelps, and J. V. Williams, Jr. 2,658,681, Nov. 10.
Calibrator for thermostats. V. J. Evans. 2,658,380, Nov. 10.
Cam and lever actuating mechanism. H. C. Christiance. 2,658,896, Nov. 10.
Cam released clutch. I. Jepson. 2,658,597, Nov. 10.
Camera belt support. E. Sarvoy. 2,548,435, Nov. 10.
Capping machine, High-speed. M. N. Schweizer. 2,658,654, Nov. 10.
Car: *See*—
Merchandise unloading toy car.
Car construction, Railway. T. Madland. 2,658,245, Nov. 10.
Carburetor de-icing means. O. Henning. 2,658,734, Nov. 10.
Carburizing. W. E. Harbaugh. 2,658,844, Nov. 10.
Cardholder, Golf score. J. Tarris. 2,658,773, Nov. 10.
Carrier: *See*—
Bottle carrier. Foldable golf bag carrier.
Carrier insertion. J. F. Honey. 2,659,051, Nov. 10.
Cart, Vacuum cleaner. R. K. Brown. 2,658,224, Nov. 10.
Carton, Reclosable. R. J. Hennessey. 2,658,664, Nov. 10.
Case for paper currency, Pocket. O. Weydener and W. H. St. Thomas. 2,658,545, Nov. 10.
Catalytic conversion of hydrocarbons. J. C. Dart. 2,658,859, Nov. 10.
Catalytic fume incineration. H. R. Suter and R. J. Ruff. 2,658,742, Nov. 10.
Catalytic hydration of olefins. S. J. Lukasiewicz, W. I. Denton, and C. J. Plank. 2,658,924, Nov. 10.
Centrifugal drier. W. H. Nobles. 2,658,619, Nov. 10.
Chain: *See*—
Saw chain.
Chair: *See*—
Convertible table chair. Folding chair.
Chair construction. D. F. Caldemeyer and H. M. Quakenbush. 2,658,561, Nov. 10.
Chair construction, Spring. P. L. Barker. 2,658,555, Nov. 10.
Chair for group photography. M. A. Stewart. 2,658,553, Nov. 10.
Chair structure. W. E. Nordmark. 2,658,563, Nov. 10.
Cheese cutter. S. Kaplan and B. Platts. 2,658,275, Nov. 10.
Chemical nickel plating. P. Talmey and W. J. Crehan. 2,658,839, Nov. 10.
Chemical nickel plating and bath therefor. G. Gutzeit and A. Krieg. 2,658,841, Nov. 10.
Chemical nickel plating and bath therefor. G. Gutzeit and E. J. Ramirez. 2,658,842, Nov. 10.
Child's seat. H. Fleisher and J. Homer. 2,658,556, Nov. 10.
Chlorinated polycyclic compounds. J. Hyman and A. A. Danish. 2,658,926, Nov. 10.
Chlorodiketone. E. T. McBee and J. S. Newcomer. 2,658,918, Nov. 10.
Chuck for holding splined workpieces. J. J. Parker and L. T. Morawski. 2,658,764, Nov. 10.
Circuit: *See*—
Degeneratively stabilized amplifier circuit. Pulse rectifier circuit.
Electronic control circuit. Telephone selector circuit.
Electronic oscillator synchronizing circuit. Tunable magnetron circuit.
Circuit and method, Heating. G. H. Rendel. 2,658,982, Nov. 10.
Circuit breaker actuating mechanism, Hydraulic. D. M. Umphrey. 2,658,969, Nov. 10.
Circuit breaker, Electric. R. T. Casey. 2,658,973, Nov. 10.
Circuit for space discharge lamps. W. C. Hall. 2,659,034, Nov. 10.
Circuit interrupter, Air. P. B. Hoye. 2,658,976, Nov. 10.
Clamp: *See*—
Quick-acting hold-down clamp. Supporting pipe clamp.
Clamp for power-driven screw drivers, Screw-retaining. D. M. Kitterman. 2,658,538, Nov. 10.
Clamp for shoe upper lacing machines, Cord. R. L. Bradley. 2,658,214, Nov. 10.
Clamp stick. K. R. Runde. 2,658,784, Nov. 10.
Clamping device for irregularly shaped workpieces. N. Barowsky. 2,658,415, Nov. 10.
Clarifying and stabilizing beer. J. V. MacDonough. 2,658,829, Nov. 10.
Classifying iron shot. M. J. Stutzman. 2,658,616, Nov. 10.
Clip: *See*—.
Connector clip. Fuse clip.
Clock, Automobile. R. G. Richardson and J. Fink. 2,658,328, Nov. 10.
Closet. J. Aue. 2,658,203, Nov. 10.
Clutch: *See*—
Cam released clutch. Variable speed hydraulic clutch.
Fluid pressure engaged and released clutch.
Clutch plates, Friction. W. V. Thelander. 2,658,598, Nov. 10.
Clutching mechanism. H. P. Luhn. 2,658,599, Nov. 10.
Coal cutting or loading machine. J. M. Quoniam. 2,658,739, Nov. 10.
Coating apparatus, Electrostatic. E. M. Ransburg. 2,658,472, Nov. 10.
Coating mineral granules. P. Teetor and C. W. Heller. 2,658,838, Nov. 10.
Code keying system. J. Kaye. 2,658,946, Nov. 10.
Coil form fastener. H. W. Kost. 2,658,248, Nov. 10.
Coil, Inductance. V. E. Legg and C. D. Owens. 2,659,057, Nov. 10.
Coke oven door frame. E. Wolff. 2,658,865, Nov. 10.
Collapsible dumping box. F. H. Stoner. 2,658,647, Nov. 10.
Combination holder. R. Osaka. 2,658,544, Nov. 10.
Combination lock. H. C. Behrens. 2,658,374, Nov. 10.
Combination water and room heater. H. L. Severance. 2,658,502, Nov. 10.
Combining synthetic resins and other materials with cellulose. D. K. Pattilloch. 2,658,828, Nov. 10.
Combustion apparatus. H. C. May and E. E. Hewitt. 2,658,462, Nov. 10.
Combustion chamber, flame tube, and the like, Sheet metal. W. Bonsall. 2,658,339, Nov. 10.
Combustion chamber for prime movers. J. S. Clarke and A. Huyton. 2,658,337, Nov. 10.
Comparing two voltages, Means for. A. Hyman. 2,658,998, Nov. 10.
Compensation for the effects of temperature and voltage fluctuations on scintillation counters, Method and apparatus for. A. H. Youmans and R. Monaghan. 2,659,011, Nov. 10.
Composite, consolidated products and apparatus therefor, Making. M. D. MacDonald. 2,658,847, Nov. 10.
Composition for coating fabrics. R. Landau. 2,658,880, Nov. 10.
Compression riveter switch. H. R. Fischer and J. A. Roberts. 2,658,966, Nov. 10.
Computer control device. B. D. Holbrook and A. A. Lundstrom. 2,658,679, Nov. 10.
Computer, Fuze setting order. A. A. Lundstrom. 2,658,676, Nov. 10.
Computer having deck tilt and gun parallax correction factors, Artillery. S. Darlington and A. A. Lundstrom. 2,658,674, Nov. 10.
Computer having range extending adjustable scale factor means, Ballistic. S. Darlington. 2,658,673, Nov. 10.
Computer, Sight order. B. D. Holbrook and A. A. Lundstrom. 2,658,678, Nov. 10.
Computer, Wind and spot. B. D. Holbrook, A. A. Lundstrom, and W. A. Malthaner. 2,658,680, Nov. 10.
Computing instrument for making elbows. V. W. Dalzell. 2,658,672, Nov. 10.
Concrete block construction. E. Fiordelisi. 2,658,378, Nov. 10.
Conduit system. E. W. Kaiser. 2,658,527, Nov. 10.
Confections, Making. P. E. Schultz. 2,658,830, Nov. 10.
Connector clip. D. F. Smith. 2,658,965, Nov. 10.
Container: *See*—
Fiber container. Moisturenroof container.
Container for atomizing, Unitary. J. B. Montenier. 2,658,797, Nov. 10.
Container for cigarettes, Pocket. J. W. Enfield. 2,658,468, Nov. 10.
Container for deep fat frying, Food. W. O. Wheeler. 2,658,444, Nov. 10.
Container reducing mechanism with continuous jaw faces. W. Pechy. 2,658,549 Nov. 10.
Continuous directional drilling. J. J. Arps. 2,658,284, Nov. 10.
Control device. J. L. Harris. 2,658,573, Nov. 10.
Control mechanism for vehicles. H. W. Hughes. 2,658,409, Nov. 10.
Control switch. W. H. Hollinshead. 2,658,397, Nov. 10.
Control system for transmissions. G. P. Marco. 2,658,403, Nov. 10.
Controlling a liquid-operated servo mechanism, Means for. T. A. Harris. 2,658,482, Nov. 10.
Controlling pressure between bells of blast furnaces. W. L. Dawbarn. 2,658,636, Nov. 10.

Convertible table chair. S. L. Specter and S. R. Hacker. 2,658,554, Nov. 10.
Conveyer. R. A. De Witt. 2,658,605, Nov. 10.
Conveyer belt. J. J. Moynihan. 2,658,607, Nov. 10.
Conveyer for banana bunches. R. M. Winslow. 2,658,610, Nov. 10.
Conveyer for heat-treating furnaces, Work. W. H. Holcroft. 2,658,633, Nov. 10.
Conveyer, Helical vibratory. W. V. Spurlin. 2,658,286, Nov. 10.
Conveying apparatus. F. W. Wehmiller. 2,658,608, Nov. 10.
Cooking appliance. M. B. and H. J. Miller. 2,658,643, Nov. 10.
Cooling and lubricating arrangement for valve guides and stems of thermal engines. G. L. Du Rostu. 2,658,491, Nov. 10.
Cooling buffs and polishing wheels, Method and apparatus for. J. R. Davies. 2,658,316, Nov. 10.
Copying apparatus. G. Cabrera R. 2,658,449, Nov. 10.
Core taking apparatus. J. C. Stokes. 2,658,726, Nov. 10.
Corrosion inhibitor. A. E. Martin and J. W. Eberman. 2,658,817, Nov. 10.
Cotton gin. D. D. Day. 2,658,239, Nov. 10.
Couch-bed construction. E. J. Stauffer. 2,658,208, Nov. 10.
Coupling: *See*—
  Electromagnetically actuated mechanical double-friction coupling.
  Reversible turbine type fluid coupling.
  Rotary, turbine-type fluid coupling.
Coupling. W. J. Spengler. 2,658,362, Nov. 10.
Coupling device. W. J. Stroh. 2,659,056, Nov. 10.
Coupling for electrical cables, Detachable. O. S. Tibbetts. 2,659,062, Nov. 10.
Covering for feet or hands, Protective. J. J. Hilton. 2,658,510, Nov. 10.
Cue, Mechanically operated. F. E. Elersich. 2,658,756, Nov. 10.
Cuff link. R. O. Wilson. 2,658,249, Nov. 10.
Cultivating implement. B. M. Peters. 2,658,437, Nov. 10.
Cuprous chloride electrode. M. F. Chubb. 2,658,935, Nov. 10.
Current-measuring system. R. H. Cherry, A. J. Williams, Jr., R. E. Tarpley, and W. McAdam. 2,659,047, Nov. 10.
Curtain carrier designed to operate on curved track. E. J. Vallen. 2,658,572, Nov. 10.
Cutter: *See*—
  Cheese cutter.
  Milling cutter.
  Rotary cutter.
  Seal cutter.
Cutter spindle and feed mechanism therefor. R. J. Stuart and A. D. Gunderson. 2,658,423, Nov. 10.
Cutting oil composition. H. A. Ambrose and O. L. Brandes. 2,658,870, Nov. 10.
Cyclotron, Variable frequency. W. W. Salisbury. 2,659,000, Nov. 10.
Cylinder head for diesel engines. R. Kloss. 2,658,493, Nov. 10.
Data transmission system for digital calculating machines or the like. J. F. Coales, W. S. Elliott, N. D. Hill, S. E. Hersom, and J. Tindale. 2,659,072, Nov. 10.
Deck latch. E. D. Dall. 2,658,778, Nov. 10.
Defluidization and fixed-bed coking of a preheated fluidized coal. H. R. Horner. 2,658,862, Nov. 10.
Degeneratively stabilized amplifier circuit. G. L. Usselman. 2,658,957, Nov. 10.
Delay line, Adjustable. S. J. Johnson. 2,659,053, Nov. 10.
Delay switch. M. Zuckerman. 2,658,973, Nov. 10.
Dental cement. J. De Ment. 2,658,832, Nov. 10.
Deodorizer, Toilet bowl flush tank. J. R. Martinez. 2,658,206, Nov. 10.
Deoiling wax. G. L. Payne. 2,658,855, Nov. 10.
Detecting leakage between heat transfer fluids. G. W. Evans, Jr. 2,658,728, Nov. 10.
Device for inducing sleep and rest. F. H. Wiesman. 2,659,073, Nov. 10.
Device for installing cesspools in a single operation. R. J. Haeg and C. C. Miller. 2,658,352, Nov. 10.
Device for manual cleaning of Venetian blind slats. I. J. Nicoll. 2,658,221, Nov. 10.
Device for the ignition and the operation of a gas filled electric discharge apparatus. A. Claude. 2,659,037, Nov. 10.
Dial indicator. M. Německý. 2,658,282, Nov. 10.
Diaphragm for pumps. H. C. Porter. 2,658,526, Nov. 10.
Diaphragm type expansible chamber operator. J. F. Shannon. 2,658,525, Nov. 10.
Diazo thioethers as blowing agents in production of sponge rubber and the like. W. B. Reynolds. 2,658,876, Nov. 10.
Diborane, Preparation of. E. M. Boldebuck, J. R. Elliott, and G. F. Roedel. 2,658,815, Nov. 10.
Dielectric wave guide to coaxial line junction. S. B. Cohn. 2,659,055, Nov. 10.
Dimethoxydecadienes, Preparing. R. S. Urban. 2,658,922, Nov. 10.
Dispensing apparatus. H. R. Talmage. 2,658,240, Nov. 10.
Dispensing closure for containers, Adjustable. W. H. Henderson. 2,658,658, Nov. 10.
Dispensing machine. J. Halahan, T. F. Aronson, and F. A. Lyon. 2,658,656, Nov. 10.
Dispensing machine for beverages having plural ingredients. G. S. Harris, Jr. 2,658,645, Nov. 10.
Dispensing machine, Ice-cream stick. R. H. Bloxham. 2,658,652, Nov. 10.
Display placard, Animated. J. G. Ferrier. 2,658,304, Nov. 10.
Donning mechanism for ring spinning, doubling, and twisting machines. J. J. Haythornthwaite and T. Haighton. 2,658,325, Nov. 10.
Door: *See*—
  Laterally movable door.
Door check. J. P. Guttormsen. 2,658,231, Nov. 10.
Door construction for vehicle bodies, Sliding. C. O. Scott. 2,658,792, Nov. 10.
Door construction for wide doorways, Folding. F. A. and H. F. Guth. 2,658,571, Nov. 10.
Door construction, Vehicle. C. C. Fish and A. H. Haberstrump. 2,658,790, Nov. 10.
Door control mechanism. E. L. Allen. 2,658,781, Nov. 10.
Door control mechanism. E. L. Allen. 2,658,783, Nov. 10.
Door latch. E. D. Dall. 2,658,780, Nov. 10.
Double row roller bearing. A. G. F. Wallgren. 2,658,807, Nov. 10.
Drainboard. W. H. Bowden. 2,658,205, Nov. 10.
Drier: *See*—
  Centrifugal drier.
Drill tooth. W. E. Jaeger. 2,658,463, Nov. 10.
Driving mechanism. I. Kalikow. 2,658,361, Nov. 10.
Drum with rhythm beaters and pedal, Bass. E. H. W. Clayton. 2,658,421, Nov. 10.
Drying of ceramic goods, Process and apparatus for the. G. M. J. Cremer. 2,658,285, Nov. 10.
Dual spring take-up reel. L. Leroy. 2,658,698, Nov. 10.
Dust cover for automatic telephone switches. L. D. Pearsall. 2,658,960, Nov. 10.
Electric contact device. E. Wettstein. 2,658,971, Nov. 10.
Electric control system for dynamoelectric machines with reversible current. A. C. Halter. 2,659,040, Nov. 10.
Electric drying unit. R. L. and H. E. Meltzer and W. D. Warner. 2,658,798, Nov. 10.
Electric initiator, Static resistant. C. F. Horne. 2,658,451, Nov. 10.
Electric plug tap with means to secure additional taps thereto, Multiple. D. B. Cohane. 2,659,060, Nov. 10.
Electric resistance. E. Weides, H. C. Riepka, and O. Uebelmann. 2,658,980, Nov. 10.
Electric soldering iron. H. W. Talbot. 2,658,983, Nov. 10.
Electric switch. W. G. Bourne. 2,658,962, Nov. 10.
Electric switch. G. J. Meuer. 2,658,978, Nov. 10.
Electrical apparatus. C. I. MacNeil. 2,659,044, Nov. 10.
Electrical control means for change-speed gearing. A. A. Miller. 2,658,408, Nov. 10.
Electrical load break switch. P. B. Hoye. 2,658,977, Nov. 10.
Electrical precipitator, Liquid washed. H. A. Wintermute. 2,658,582, Nov. 10.
Electrically heated lunch box. E. H. Gronlund. 2,658,986, Nov. 10.
Electrically operated gas lift valve. L. F. Davis. 2,658,460, Nov. 10.
Electrodeposition of nickel. J. D. Little. 2,658,867, Nov. 10.
Electrodeposition of tin-nickel alloy. N. Parkinson. 2,658,866, Nov. 10.
Electromagnetic pump. K. O. Donelian. 2,658,452, Nov. 10.
Electromagnetically actuated mechanical double-friction coupling. A. Doebell. 2,658,593, Nov. 10.
Electronic control circuit. R. H. Floyd. 2,659,008, Nov. 10.
Electronic oscillator synchronizing circuit. A. G. Emslie. 2,659,009, Nov. 10.
Electrostatic deflection system. W. J. Oestreicher. 2,659,022, Nov. 10.
Emergency exit means for aircraft. W. W. Osborne. 2,658,702, Nov. 10.
Engine: *See*—
  Internal-combustion engine.
  Two-stroke internal-combustion engine.
Engine for transmitting forces developed therein. H. De Waide. 2,658,486, Nov. 10.
Engine starter control system. W. V. Harrison. 2,659,018, Nov. 10.
Eraser, Pencil attached adjustable. L. H. Hansen. 2,658,480, Nov. 10.
Evaporator. R. H. Money. 2,658,359, Nov. 10.
Factor entering means. H. Gang. 2,658,684, Nov. 10.
Fan drive, Variable. A. Y. Dodge. 2,658,400, Nov. 10.
Fan for suction cleaners, Multistage. D. B. Tschudy. 2,658,665, Nov. 10.
Fan guard. W. Krzesiewski. 2,658,666, Nov. 10.
Fan hub, Composite. V. E. Sprouse. 2,658,577, Nov. 10.
Farm implement hitch. J. C. Koenig. 2,658,770, Nov. 10.
Fastener: *See*—
  Coil form fastener.
Fastener of the extruded type, Slide. L. W. Koutnik. 2,658,250, Nov. 10.
Fastening inserting machine. F. R. Thresh. 2,658,198, Nov. 10.
Feed mechanism, Variable speed. J. G. McIlvain, Jr. 2,658,406, Nov. 10.

Feeder: *See*—
  Automatic livestock feeder.
  Worm feeder.
Feeder and holder, Screw. W. T. H. Ayers. 2,658,199, Nov. 10.
Feeder cup support. F. A. Kendall. 2,658,700, Nov. 10.
Feeding yarns in knitting machines, Means for. A. Shortland. 2,6548,367, Nov. 10.
Fiber bonding resin and bonded product. B. W. Lew. 2,658,849, Nov. 10.
Fiber container. G. W. Reese. 2,658,663, Nov. 10.
Filament structure. G. J. Agule. 2,659,023, Nov. 10.
Filter. A. D. Redner. 2,658,624, Nov. 10.
Fire detection system. M. F. Peters. 2,659,067, Nov. 10.
Fishing reel. J. F. Steinbaugh. 2,658,697, Nov. 10.
Fishing rod holder. H. H. Jasper. 2,658,650, Nov. 10.
5-alkoxymethylene rhodanines. W. J. Croxall and C. Lo. 2,658,890, Nov. 10.
Fixture casing. Y. Sherwood. 2,658,201, Nov. 10.
Flow control in bubble towers, Means for. I. E. Nutter. 2,658,737, Nov. 10.
Flow metering device. C. J. Coberly. 2,658,522, Nov. 10.
Fluid cleaning apparatus. H. E. Thornhill. 2,658,622–3, Nov. 10.
Fluid cooled, refractory, ceramic lined rocket structure. K. C. Nicholson. 2,658,332, Nov. 10.
Fluid displacement device. G. A. Wahlmark. 2,658,456, Nov. 10.
Fluid flow restrictor. C. A. E. Hensley. 2,658,529. Nov. 10.
Fluid operated servo mechanism. T. A. Harris. 2,658,483, Nov. 10.
Fluid pressure engaged and released clutch. J. M. Archambault. 2,658,596, Nov. 10.
Fluid relay mechanism. G. E. Luppold, Jr., and J. F. Shannon. 2,658,516, Nov. 10.
Fluidized solids system. R. J. Hengstebeck. 2,658,822, Nov. 10.
Fluorination of chlorine containing derivatives of paraffin hydrocarbons. W. Kwasnik. 2,658,927, Nov. 10.
Fluorocarbon chlorides and bromides by thermal chlorination and bromination of fluorocarbon hydrides, Making. J. H. Simons, T. J. Brice, and W. H. Pearlson. 2,658,928, Nov. 10.
Flying control for aircraft. F. H. Robertson. 2,658,701, Nov. 10.
Flywheel turning tool. W. G. De Kam. 2,658,417, Nov. 10.
Foldable exercising and resting table. W. F. Courtney. 2,658,754, Nov. 10.
Foldable golf bag carrier. C. M. Rutledge and F. Alter. 2,658,771, Nov. 10.
Folding box. C. M. Keller. 2,658,660, Nov. 10.
Folding chair. L. Androsiglio. 2,658,562, Nov. 10.
Folding chair. G. W. Carlson. 2,658,558, Nov. 10.
Folding multiply fabric construction. O. S. Lawton. 2,658,535, Nov. 10.
Footwear calk assembly. H. S. Schrieber. 2,658,289, Nov. 10.
Form for molding openings in concrete. A. C. Avril. 2,658,252, Nov. 10.
Formation of welding projections on tubes. C. W. Harrison. 2,658,548, Nov. 10.
Forming urea complexes. G. B. Arnold, J. K. Truitt, and H. V. Hess. 2,658,887, Nov. 10.
Formoguanamines and their preparation. D. W. Kaiser and J. J. Roemer. 2,658,894, Nov. 10.
4-octyl- and nonyl-pyridines for controlling fungous attacks in organic materials. F. E. Cislak. 2,658,850, Nov. 10.
Fracture splint, Bone. R. B. Gibson. 2,658,508, Nov. 10.
Fracture table. A. J. Neufeld. 2,658,507, Nov. 10.
Frame: *See*—
  Coke oven door frame.
Frame attachment for supporting workers in planting. W. J. Melvin, Jr. 2,658,768, Nov. 10.
Freezing point tester. A. S. Chipley. 2,658,383, Nov. 10.
Fuel carburetion system. J. W. F. Holl. 2,658,732, Nov. 10.
Fuel feed and power control device for gas turbines. E. O. Wirth and F. Barfod. 2,658,566, Nov. 10.
Fuel Oil Composition. H. J. Andress, Jr. 2,658,823, Nov. 10.
Furnace: *See*—
  Gas fired forced air flow air heating furnace.
  Melting furnace.
  Muffle furnace.
Furnace for above and below floor mounting, Air heating. P. P. Scheurer. 2,658,503, Nov. 10.
Fuse clip. G. L. Webb and E. Loro. 2,659,063, Nov. 10.
Fuses, High current carrying capacity current-limiting. F. J. Kozacka. 2,658,974, Nov. 10.
Game apparatus, Horse racing. A. J. Brost. 2,658,760, Nov. 10.
Game piece moving means. J. C. Elder. 2,658,757, Nov. 10.
Gas fired forced air flow air heating furnace. R. C. Jaye and J. F. Hirtz. 2,658,504, Nov. 10.
Gas leakage test box. D. B. Miller. 2,658,434, Nov. 10.
Gas-liquid contact apparatus for removing contaminants from gases. V. C. de Ybarrondo. 2,658,735, Nov. 10.
Gas measuring device. R. D. Richardson. 2,658,384–5, Nov. 10.
Gas turbine housing. R. Leduc. 2,658,338, Nov. 10.
Gas turbine system of intermittent combustion type. A. C. Peterson. 2,658,335, Nov. 10.
Gas valve. E. E. Meusy. 2,658,514, Nov. 10.
Gate: *See*—
  Water channel control gate.
Gate valve. F. H. Stradtmann. 2,658,712, Nov. 10.
Gauge and warning light combination. P. P. Gallo. 2,659,070, Nov. 10.
Gauge connecting device, Piston and cylinder type fluid pressure. C. R. A. Grant. 2,658,391, Nov. 10.
Gear transmission, Selective. A. Y. Dodge. 2,658,405, Nov. 10.
Generator: *See*—
  Ozone generator.
  Pulse generator.
Generator with self-excited exciter, Self-regulating alternating current. E. Rona. 2,659,045, Nov. 10.
Geophysical display system. F. Rieber. 2,658,579, Nov. 10.
Geophysical exploration using radioactive material. J. J. Arps. 2,659,046, Nov. 10.
Germicidal detergent composition. M. W. Marcoux. 2,658,873, Nov. 10.
Glass paper, Making. D. Labino. 2,658,848, Nov. 10.
Glass-lined pump. O. W. Greene. 2,658,454, Nov. 10.
Glass plaques, Producing. C. H. Goddard. 2,658,311, Nov. 10.
Golf ball retriever. A. Bailey. 2,658,637, Nov. 10.
Golf ball retriever. L. Jones. 2,658,785, Nov. 10.
Gravity dewaxing of wax-bearing hydrocarbon fractions. H. C. Myers and A. O. Pukkila. 2,658,854, Nov 10.
Grease compositions. F. H. Stross, S. T. Abrams, and W. H. Peterson. 2,658,869, Nov. 10.
Grinding machine. A. J. Bowen. 2,658,313, Nov. 10.
Grinding wheel dressing apparatus. N. Hoglund. 2,658,500–1, Nov. 10.
Grinding wheel dressing mechanism. N. Hoglund. 2,658,498–9, Nov. 10.
Guanidine thiocyanate, Preparation of. N. H. Marsh. 2,658,917, Nov. 10.
Guide for warp beams. T. Rovas. 2,658,699, Nov. 10.
Gun fire control apparatus. A. P. Davis and J. K. Macomber. 2,658,277, Nov. 10.
Hacksaw frame with spare blade storage chamber. F. Heuneman. 2,658,541, Nov. 10.
Halodiaminotriazines, Preparation of. J. J. Roemer and D. W. Kaiser. 2,658,893, Nov. 10.
Halothenoylglycines. W. Galler. 2,658,904, Nov. 10.
Hammer, Pneumatic. B. A. Swanson. 2,658,481, Nov. 10.
Hamper with steps combined, Children's. D. C. Bayles. 2,658,640, Nov. 10.
Handbags and products, Making. F. O. Budnick. 2,658,543, Nov. 10.
Handle: *See*—
  Pocket knife handle.
Hanger: *See*—
  Tray hanger.
  Wallpaper hanger.
Harvester, Field or row crop forage. C. W. Hansen. 2,658,319, Nov. 10.
Harvester, Grass seed. H. Armstrong. 2,658,321, Nov. 10.
Heat ex hanger, Preheater-type. S. Horwitz. 2,658,729, Nov. 10.
Heat treatment of aluminum alloys. L. J. Barker. 2,658,845, Nov. 10.
Heater: *See*—
  Combination water and room heater.
Heating device for preventing frost damage, Crop. W. R. Fowler, Jr., and B. R. McGill. 2,658,308, Nov. 10.
Hedge trimmer, Power-operated. C. Dodegge. 2,658,273, Nov. 10.
Helicopter rotor. P. F. Lapidovsky. 2,658,575, Nov. 10.
Heterocyclic monoazodyestuffs. E. Fischer. 2,658,888, Nov. 10.
High-frequency sole attaching. G. T. Hart. 2,658,213, Nov. 10.
Higher alkylphenyl nitrogen compounds. M. Cenker and W. K. Langdon. 2,658,925, Nov. 10.
Hinge, Detachable leaf. A. Colonna. 2,658,232, Nov. 10.
Hinge, Including a detachable leaf. I. Kimmel. 2,658,233, Nov. 10.
Hoist and binder, Automatic. F. W. Coffing. 2,658,721–2, Nov. 10.
Hoist, Full automatic. F. W. Coffing. 2,658,723, Nov. 10.
Holder: *See*—
  Combination holder.
  Fishing rod holder.
  Outlet box holder.
  Snap-in deformable clip holder.
  Toilet paper holder.
  Utensil holder.
  Work holder.
  Writing board lamp and paper holder.
Holder for attachment to cooking vessels, Cooking spoon. L. A. Simmons. 2,658,363, Nov. 10.
Holder for fishing line leaders. H. R. Snyder. 2,658,300, Nov. 10.
Holder for tube dispensers having automatically operable closures. H. A. Hinrichs. 2,658,646, Nov. 10.
Holding device for bubble caps. G. W. Plossl and F. E. Neef, Jr. 2,658,738, Nov. 10.
Hook-setting device. H. E. Maxfield. 2,658,299, Nov. 10.
Hot-spraying method and apparatus. W. Kopperschmidt. 2,658,796, Nov. 10.
Hotel guest mail and message box. S. I. Mirkin. 2,658,667, Nov. 10.
Hydraulic connecting member, Adjustable. J. A. Kanuch. 2,658,588, Nov. 10.

Hydraulic drive system. G. Banister and L. S. Burns. 2,658,342, Nov. 10.
Hydraulic fluid seal. E. H. Schultz. 2,658,809, Nov. 10.
Hydraulic power system. W. R. Eames, Jr. 2,658,341, Nov. 10.
Hydrogen peroxide and making same, Stabilized. E. S. Shanley and H. O. Kauffmann. 2,658,818, Nov. 10.
Hydrogenation of coal. E. F. Pevere, H. V. Hess, and G. B. Arnold. 2,658,861, Nov. 10.
Hydrolyzable siloxanes, Production of. S. Nitzsche and E. Pirson. 2,658,908, Nov. 10.
Hydrostatic test unit. R. H. Guichard. 2,658,386, Nov. 10.
Illumination system, Automatic. E. H. Heyer. 2,659,038, Nov. 10.
Impeller with center intake. L. R. Seinfeld. 2,658,455, Nov. 10.
Implement temperature control, Glass working. G. H. Southworth. 2,658,687, Nov. 10.
Improvement in railway tracks. W. Tryliński, Sr., W. Tryliński, Jr., and B. Trylińska. 2,658,688, Nov. 10.
Increasing vacuum tower production, Process and apparatus for. J. R. Guala. 2,658,863, Nov. 10.
Index arm for measuring instruments, Adjustable. H. L. Bowditch. 2,658,469, Nov. 10.
Indicating and recording equipment. L. W. Zabel, R. W. Schmidt, and R. H. Caston. 2,659,048, Nov. 10.
Indicating apparatus for cash registers or other business machines. K. Aurbach and H. Schaper. 2,658,668, Nov. 10.
Indicator: *See*—
Alignment indicator. Panoramic frequency indicator.
Dial indicator.
Indicator device. L. R. Sayer. 2,659,066, Nov. 10.
Insole for footwear, Molded and tapering latex. W. M. Scholl. 2,658,288, Nov. 10.
Instrument, Self-contained drafting. R. E. Amundsen. 2,658,279, Nov. 10.
Intercommunication apparatus. A. Liberman. 2,658,947, Nov. 10.
Internal-combustion engine. J. L. Putt. 2,658,489, Nov. 10.
Internal-combustion engine. A. Taub. 2,658,488, Nov. 10.
Iron: *See*—
Electric soldering iron.
Ironing board mounting structure. M. R. Hull. 2,658,294, Nov. 10.
Joint: *See*—
Structural rod joint.
Joint for steering parts on automobiles having independent front wheel suspension. H. T. Cottrell. 2,658,772, Nov. 10.
Ketones, Production of. L. Schmerling. 2,658,919, Nov. 10.
Knitting device, Tubular. G. A. Carlson. 2,658,364, Nov. 10.
Knitting machine. S. R. Shelmire. 2,658,366, Nov. 10.
Knitting machine and operating same, Circular multifeed hosiery. R. H. Lawson. 2,658,365, Nov. 10.
Knob device, Differential. V. J. Coates. 2,658,395, Nov. 10.
Ladder, Fruit gathering. E. J. Sattler. 2,658,601, Nov. 10.
Laminated coating. A. H. Du Rose and J. D. Little. 2,658,266, Nov. 10.
Laminates, Manufacture of. J. C. Perry. 2,658,840, Nov. 10.
Lapping tool. A. Simons. 2,658,314, Nov. 10.
Lasting open-toe shoes, Method and apparatus for. P. Pepe. 2,658,215, Nov. 10.
Latch: *See*—
Deck latch. Door latch.
Latch mechanism. E. D. Dall. 2,658,779, Nov. 10.
Laterally movable door. W. A. Beauchamp. 2,658,243, Nov. 10.
Laterally movable door. G. Madland. 2,658,244, Nov. 10.
Laundry handling receptacle. W. A. Pellerin. 2,658,641, Nov. 10.
Lawn mower, Disk type. M. Gelinas. 2,658,320, Nov. 10.
Lawn mower handle bracket construction, Adjustable. W. E. Sullivan. 2,658,322, Nov. 10.
Laying nest. H. H. Hobbs. 2,658,475, Nov. 10.
Leak valve. C. S. Sagady. 2,658,519, Nov. 10.
Lidding machine. A. F. Litchfield and W. B. Welsh. 2,658,655, Nov. 10.
Lifter attachment for tractors, Load. N. A. Nelson. 2,658,635, Nov. 10.
Lifter: *See*—
Pot lifter.
Lifting device. H. K. Hecker. 2,658,586, Nov. 10.
Light socket, Fluorescent. N. C. Russell. 2,659,058, Nov. 10.
Lighter, Cigarette. M. B. Siegel. 2,658,368, Nov. 10.
Lighter, Friction wheel. M. Kohn. 2,658,369, Nov. 10.
Lint remover. M. T. Green. 2,658,217, Nov. 10.
Liquid fuel supply system for internal-combustion turbines with afterburners. F. H. Carey. 2,658,330, Nov. 10.
Liquid fuel supply system for prime movers or furnaces. J. J. Righton. 2,658,565, Nov. 10.
Liquid level actuated switch. E. H. Hurley. 2,658,970, Nov. 10.
Lock: *See*—
Combination lock.
Lock means for door control mechanism. E. L. Allen, A. R. de Vito, and H. B. Muster. 2,658,375, Nov. 10.
Lock means for door control mechanism. E. L. Allen. 2,658,782, Nov. 10.
Locking device. G. Rauglas. 2,658,777, Nov. 10.
Loom knockoff means. F. F. Donoghue and H. N. Thibault. 2,658,534, Nov. 10.
Low melting point plastic waxes, Manufacturing. J. L. Tiedje and J. B. McGrath. 2,658,852, Nov. 10.
Lubricating apparatus. V. G. Klein and P. Walls. 2,658,585, Nov. 10.
Lubricating composition. P. V. Smith, Jr., and J. B. McPherson, Jr. 2,658,871, Nov. 10.
Lubricating device, Upper engine. L. M. Herzfeld. 2,658,494, Nov. 10.
Lubrication system for reciprocatory plunger pump. W. E. W. Nicolls. 2,658,458, Nov. 10.
Lubricator: *See*—
Railway journal lubricator.
Luminous sign. D. H. Young and G. A. Houseman. 2,658,295, Nov. 10.
Machine for attaching artificial stems to blossoms. C. M. Andersen. 2,658,296, Nov. 10.
Machine for filling containers. P. R. Fechheimer. 2,658,657, Nov. 10.
Machine for pulping paper stock. E. Cowles. 2,658,426, Nov. 10.
Magnetic recording and reproducing. S. J. Begun. 2,658,956, Nov. 10.
Magnetic recording art. F. L. Putzrath. 2,658,953, Nov. 10.
Magnetic sound system. A. C. Albee and H. C. Ward. 2,658,951, Nov. 10.
Magnetron. J. Verweel. 2,659,030, Nov. 10.
Magnetron of the cavity resonator type. K. H. J. Bokhove. 2,659,031, Nov. 10.
Magnetron, Tunable. F. H. Crawford. 2,659,032, Nov. 10.
Magnetron, Tunable squirrel cage. M. D. Hare and V. Leonard. 2,659,033, Nov. 10.
Manual and automatic valve. R. N. Winfree. 2,658,716, Nov. 10.
Manual operator for power-operated valves. M. J. D'Amore. 2,658,524, Nov. 10.
Manufacture and attachment of turbine and like blading. D. N. Walker. 2,658,718, Nov. 10.
Manufacturing articles from strip stock, Process and apparatus for. S. Atchason. 2,658,695, Nov. 10.
Manufacturing laminated cores for electromagnets. I. Epelboin. 2,658,264, Nov. 10.
Marking hypodermic syringes. S. N. Blackman. 2,658,837, Nov. 10.
Mattress elevator, Baby crib. J. J. Robbins. 2,658,207, Nov. 10.
Measuring block device for tool lathes. N. Ciccone. 2,658,283, Nov. 10.
Mechanical bi-stable device. E. A. Brown. 2,658,972, Nov. 10.
Mechanism for adjustably correlating tool feed with rate of cutting of machine tools. R. W. Brown. 2,659,020, Nov. 10.
Mechanism for interlocking pile tubes to submerged structures from above the surface. J. P. Emshwiller. 2,658,550, Nov. 10.
Mechanism for marking and cutting trousers. G. R. McAllaster. 2,658,276, Nov. 10.
Melamine and/or guanidine, Preparation of. J. S. Mackay. 2,658,891, Nov. 10.
Melamine from biuret, Preparation of. J. H. Paden and J. S. Mackay. 2,658,892, Nov. 10.
Melting furnace. S. Spell and E. R. Powell. 2,658,743, Nov. 10.
Melting point apparatus. J. Vanderkamp. 2,658,382, Nov. 10.
Merchandise unloading toy car. F. Pettit. 2,658,307, Nov. 10.
Meter: *See*—
Arterial pulse wave velocity meter. Badge meter.
Micrometer device and scale, Combined. E. C. Olney. 2,658,280, Nov. 10.
Milling cutter. A. Hage. 2,658,260, Nov. 10.
Milling machine. W. F. Huck. 2,658,424, Nov. 10.
Mixing and diffusing device. A. H. Lange. 2,658,440, Nov. 10.
Modified copolymers and preparation and uses thereof. W. C. Hollyday, Jr., and M. H. Mahan. 2,658,872, Nov. 10.
Moistureproof container. N. I. Paulsen. 2,658,662, Nov. 10.
Moldable material comprising asbestos and a cohydrolyzate of phenyl silicon trihalide and ethyl silicon trihalide. A. Hirsch. 2,658,881, Nov. 10.
Molding apparatus, Injection. C. H. Cuppett and J. Taylor. 2,658,237, Nov. 10.
Molding heel lifts, Method and apparatus for. A. A. Rizzo. 2,658,238, Nov. 10.
Mop, Dish. L. I. Chapman. 2,658,220, Nov. 10.
Motion-picture film handling apparatus. G. A. Del Valle and A. S. Jones. 2,658,954, Nov. 10.
Motor material handling device, Dual. C. S. Weyandt. 2,658,609, Nov. 10.

Mounting and fixing of turbo-machine fixed blades. K. Johanson. 2,658,719, Nov. 10.
Mounting lamp shades on lamp harps, Means for. H. Lagin. 2,658,990, Nov. 10.
Moving object pulse echo detection system. R. Sherr. 2,659,078, Nov. 10.
Muffle furnace. H. N. Ipsen. 2,658,744, Nov. 10.
Multiple precision instrument and tool. V. S. Deba. 2,658,278, Nov. 10.
Musical instrument having angularly adjustable string contacting mechanisms, Stringed. J. W. McBride. 2,658,419, Nov. 10.
Muzzle, Dog. L. W. Jones. 2,658,478, Nov. 10.
N-alkyl-N-vinyl cyanamide preparation. D. W. Kaiser and I. Hechenbleikner. 2,658,915, Nov. 10.
Negative feedback frequency response compensation amplifier system. L. V. Wells. 2,658,958, Nov. 10.
Nickel catalyst and preparation thereof. G. C. A. Schuit and J. J. B. V. van Voorthuysen. 2,658,875, Nov. 10.
Nose or eye drop package. L. I. Volckening. 2,658,613, Nov. 10.
Nozzle adjustment for suction cleaners. H. B. White. 2,658,227, Nov. 10.
Nozzle for jet engines, Variable area discharge. A. J. Smialowski. 2,658,333, Nov. 10.
Nozzle for spraying buffing compounds, Spray gun. L. W. Smith. 2,658,312, Nov. 10.
Nozzle, Liquid fuel injection. E. S. Collinson. 2,658,800, Nov. 10.
Nozzle structure for suction cleaning apparatus. O. B. Sutton. 2,658,230, Nov. 10.
Nozzle, Vacuum cleaner. C. E. Meyerhoefer. 2,658,228, Nov. 10.
Nut and retainer assembly. E. C. Crowther. 2,658,546, Nov. 10.
Odometer, Quick reset. H. H. Harada. 2,658,685, Nov. 10.
Oil burner. R. R. Witherell. 2,658,567, Nov. 10.
Oil circulation device. E. H. Mudersbach. 2,658,584, Nov. 10.
Oil trap for vacuum lines of wells. P. M. Rider. 2,658,581, Nov. 10.
1,1,6,6-tetrachloro-1,5-hexadiene. E. C. Ladd and H. Sargent. 2,658,929, Nov. 10.
1,1,2-trimethyl-propen-2-YL 3-oxobutanoate and its preparation. W. Kimel. 2,658,911, Nov. 10.
1,2,3,4-tetrahydrophenanthrenes, Preparing. W. S. Johnson and D. L. Turner. 2,658,910, Nov. 10.
Operation of X-ray tubes. V. Quittner. 2,659,016, Nov. 10.
Optical system for binocular viewing devices. J. R. Miles. 2,658,422, Nov. 10.
Orthopedic balancing apparatus for leg amputees. E. Feine. 2,658,388, Nov. 10.
Oscillator, Reflex klystron. W. H. Huggins. 2,659,025, Nov. 10.
Outboard motor stand. R. J. Brink and C. W. Tunstead. 2,658,703, Nov. 10.
Outlet box holder. H. Smith. 2,658,704, Nov. 10.
Output connection for magnetron. L. Tonks and J. F. Hull. 2,659,027, Nov. 10.
Ozone generator. R. G. Collison. 2,658,868, Nov. 10.
Package and forming the same, banded. E. W. Van Patten. 2,658,614, Nov. 10.
Packaging assembly, Multiple-unit. J. V. Necas. 2,658,612, Nov. 10.
Padlock, Combination. O. H. Elfert and H. S. Thomas, Jr. 2,658,373, Nov. 10.
Paintbrushes, Making. C. R. Goldberger. 2,658,801, Nov. 10.
Pan type oil burner. P. A. Broady. 2,658,568, Nov. 10.
Panoramic frequency indicator. W. H. Huggins and P. I. Richards. 2,658,904, Nov. 10.
Paperboard forming machine. B. A. Malkin. 2,658,429, Nov. 10.
Paper decurling apparatus. J. R. Baumgartner. 2,658,432, Nov. 10.
Paper guide for accounting machines. H. M. Fleming. 2,658,600, Nov. 10.
Papermaking machine. S. S. Stevens. 2,658,430–1, Nov. 10.
Papermaking machine, Adjustable cylinder. P. H. Goldsmith. 2,658,428, Nov. 10.
Peat milling and handling machine. F. E. Pierce. 2,658,290, Nov. 10.
Pen cap having an ink container therein, Fountain. M. Fried. 2,658,479, Nov. 10.
Phenylazomalononitriles, Substituted. M. W. Goldberg and A. I. Rachlin. 2,658,889, Nov. 10.
Phonograph pickup device and the like. H. E. Roys. 2,658,763, Nov. 10.
Pinyl thiophene. G. C. Johnson. 2,658,901, Nov. 10.
Pipe cooling arrangement for high-speed continuous mills. B. Bannister. 2,658,257, Nov. 10.
Pitch sheave, Adjustable. T. C. Knudsen. 2,658,401, Nov. 10.
Plant basket removing implement. W. M. Schlitt. 2,658,309, Nov. 10.
Plant defoliant. E. W. Clarke, R. B. Doan, and V. J. Keenan. 2,658,826, Nov. 10.
Plant for the recovery of waste heat from combustible gases derived from chemical processes. C. Keller. 2,658,349, Nov. 10.
Plow, Rotary. U. Gatti. 2,658,436, Nov. 10.
Plug: *See*—
Spark plug.
Ply stock magazine. E. E. Mallory. 2,658,691, Nov. 10.
Pocket knife handle. W. W. Lillard. 2,658,272, Nov. 10.
Polishing attachment for suction cleaners, Floor. N. W. La Briere. 2,658,226, Nov. 10.
Polishing disks, Making. H. Stahel. 2,658,802, Nov. 10.
Polyhaloalkanes, Production of. R. B. Thompson. 2,658,930, Nov. 10.
Polymeric compositions from a chlorophenol, an aldehyde, and a chloroepoxyalkane. G. F. D'Alelio. 2,658,884, Nov. 10.
Polymeric compositions from a hydrocarbon substituted phenol, an aldehyde, and a chloroepoxyalkane. G. F. D'Alelio. 2,658,885, Nov. 10.
Polymerization process, Slurry. W. G. May and G. L. Matheson. 2,658,933, Nov. 10.
Polyurethanes by a continuous process, Production of. J. Swerdloff and S. B. McFarlane. 2,658,886, Nov. 10.
Poppet valve. W. H. Taylor. 2,658,492, Nov. 10.
Pot lifter. F. O. Crich. 2,658,788, Nov. 10.
Potentiometer comprising at least two series-connected capacities, Capacitative. C. Bourgonnier, M. Jouguet, and A. Bunodiere. 2,659,039, Nov. 10.
Poultry shackle. P. J. Altenpohl. 2,658,236, Nov. 10.
Power hand band sealer. J. J. Grevich. 2,658,552, Nov. 10.
Preparation and purification of higher alkyl aryl sulfonamides and their salts. I. J. Krems. 2,658,916, Nov. 10.
Preparation of thiophene and alkylated thiophenes. B. F. Tullar and R. F. Feldkamp. 2,658,903, Nov. 10.
Preserving plant and animal tissues. G. R. Fessenden. 2,658,836, Nov. 10.
Pressing machine, Pants. S. Rosenthal. 2,658,649, Nov. 10.
Pressure control system for gas turbine plants. W. Traupel. 2,658,336, Nov. 10.
Pressure indicating pneumatic transmission system. W. E. Vannah. 2,658,392, Nov. 10.
Pressure method of preparing diborane. E. M. Boldebuck, J. R. Elliott, and G. F. Roedel. 2,658,816, Nov. 10.
Pressure responsive cutoff valve. W. L. Lyon. 2,658,521, Nov. 10.
Pressure responsive device for determining the depth of liquids. I. D. Eby. 2,658,389, Nov. 10.
Process for the production of naphthalene and related derivatives, and derivatives highly chlorinated, partially hydrogenated triphenylene. J. Hyman and M. Silverman. 2,658,913, Nov. 10.
Print mechanism, Positive cam operated. K. J. Braun. 2,658,447, Nov. 10.
Printing machine, Combination tag and textile. P. N. Braun. 2,658,448, Nov. 10.
Producing spinnerets for the production of threads. C. Issartial. 2,658,414, Nov. 10.
Product containing sodium acid cyanamide, Preparation of. R. A. Vingee and L. L. Lento, Jr. 2,658,825, Nov. 10.
Projector for simulated basket ball games. W. J. Elliott, Sr. 2,658,495, Nov. 10.
Propeller blades, Making. C. A. and C. H. Brauchler. 2,658,265, Nov. 10.
Protecting metal surfaces, composition therefor, and article resulting therefrom. C. A. M. Rex. 2,658,834, Nov. 10.
Protector: *See*—
Automobile door lock protector.
Providing a restricted passage in a fluid conduit, Means for. R. J. Ifield. 2,658,528, Nov. 10.
Pulse generator. J. F. Clayton. 2,659,019, Nov. 10.
Pulse rectifier circuit. E. P. Halpin. 2,659,007, Nov. 10.
Pulse regenerator. R. L. Carbrey, C. C. Cutler, and C. B. H. Feldman. 2,658,997, Nov. 10.
Pump: *See*—
Electromagnetic pump. Well pump.
Glass-lined pump.
Pump and motor hydraulic transmission, Rotary. D. F. McGill. 2,658,343, Nov. 10.
Pump and motor hydraulic transmission, Rotary. C. M. Welch. 2,658,344, Nov. 10.
Pump control for carburetors, Accelerating. H. A. Boller. 2,658,733, Nov. 10.
Pump duster, Manually operated. W. D. Merrill. 2,658,301, Nov. 10.
Pumping device, Nonclogging. M. E. Walters. 2,658,453, Nov. 10.
Purification of mercaptothiazoles. R. H. Ebel. 2,658,864, Nov. 10.
Quick-acting hold-down clamp. W. J. Sobaski. 2,658,540, Nov. 10.
Rack: *See*—
Tie rack.
Rack with hanger retaining means, Garment. R. A. Magnuson. 2,658,627, Nov. 10.
Radar system and antenna therefor. R. G. Herb. 2,659,006, Nov. 10.
Radar system, Antijamming. R. S. O'Brien and J. H. Woodruff. 2,658,991, Nov. 10.
Radar system, Moving target. F. Cunningham, Jr. 2,659,079, Nov. 10.
Radiation pyrometry. R. C. Machler. 2,658,390, Nov. 10.
Radiator, Optical. H. Mohn. 2,658,984, Nov. 10.
Radio direction finder. P. A. Pearson. 2,659,082, Nov. 10.

Radio ground control equipment for aircraft. B. F. Collins, V. J. Cox, and A. W. Martin. 2,659,075, Nov. 10.
Radio pulse-echo system, Moving object. A. G. Emslie. 2,659,076, Nov. 10.
Radio pulse echo system, Moving target. A. G. Emslie. 2,659,077, Nov. 10.
Radio system, Multiple channel. R. C. Allen and J. Millman. 2,659,081, Nov. 10.
Railway journal lubricator. J. J. Hennessy. 2,658,806, Nov. 10.
Ram for machine tools, Adjustable. T. F. Eserkaln and F. Steinbrecker. 2,658,425, Nov. 10.
Ram-jet launching sequence fuel flow control valve. T. W. Johnson. 2,658,331, Nov. 10.
Range or stove, Combined electric and gas operated. W. H. Ogden. 2,658,987, Nov. 10.
Rate determining device. G. A. Morton, L. E. Flory, and R. L. Snyder, Jr. 2,658,670, Nov. 10.
Ray directing device. J. B. Bartow. 2,659,017, Nov. 10.
Rayon spinning machinery. J. H. Givens, L. Rose, and E. J. Whyte. 2,658,254, Nov. 10.
Razor with extra blade, Safety. A. H. Bronish. 2,658,271, Nov. 10.
Receptacle: *See*—
  Laundry handling receptacle.
Receptacle and support therefor. H. R. Casella. 2,658,642, Nov. 10.
Record controlled machine. C. D. Lake, L. A. Wilson, D. R. Platt, and B. M. Durfee. 2,658,682, Nov. 10.
Record transducing system and guide structure, Magnetic. S. J. Begun. 2,658,762, Nov. 10.
Recorder, Valve lift. L. C. Smith. 2,658,812, Nov. 10.
Recording and reproducing device, Magnetic. H. J. Harsant and T. F. Deucher. 2,658,952, Nov. 10.
Recording device for concrete mixing drums. R. G. Osborne and R. O. Boykin. 2,658,731, Nov. 10.
Recovering precious and base metals. A. Rizo-Patrón R. 2,658,827, Nov. 10.
Rectifier and phase detector, Bidirectional. H. C. Lehde. 2,658,996, Nov. 10.
Reductive process for preparing pteroyl-glutamic acid. H. Kirchensteiner, H. Klaeui, and H. Lindlar. 2,658,896, Nov. 10.
Reel: *See*—
  Antibacklash fishing reel.
  Dual spring take-up reel.
  Fishing reel.
  Self-winding and self-transporting reel.
  Stock reel.
Refining and stabilizing waxes. S. F. Perry and R. M. Bailly. 2,658,856, Nov. 10.
Refining fatty oils. G. H. Palmer. 2,658,907, Nov. 10.
Reforming catalyst and preparing the same. L. C. Drake and R. L. Smith. 2,658,931, Nov. 10.
Refrigerating system. V. W. Smith. 2,658,357, Nov. 10.
Refrigeration system, Jet pump. E. P. Neumann and F. Lustwerk. 2,658,356, Nov. 10.
Refrigeration system with multiple fluid heat transfer. C. Boling. 2,658,358, Nov. 10.
Refrigerator and deep freezer system. B. Katzenberger. 2,658,355, Nov. 10.
Regenerative tracking apparatus. A. A. Lundstrom and W. A. Malthaner. 2,658,677, Nov. 10.
Relay device. C. E. Fisher. 2,658,961, Nov. 10.
Releasable detent mechanism. C. B. Livers. 2,658,410, Nov. 10.
Removal of iron contaminants from hydrocarbon synthesis products. B. S. Pace. 2,658,906, Nov. 10.
Removing dry paper trim. H. Ver Doot, Jr. 2,658,427, Nov. 10.
Rendering regenerated cellulose resistant to sticking and article produced. W. O. Brillhart. 2,658,843, Nov. 10.
Reproducer for magnetically recorded signals. A. E. Canfora. 2,658,950, Nov. 10.
Repulsion type magnetic suspension. L. I. Mendelsohn. 2,658,805, Nov. 10.
Retainer for electrical attachment plugs. K. M. Johnson. 2,659,059, Nov. 10.
Return idler for cord conveyer belts. W. F. Bankauf. 2,658,606, Nov. 10.
Reversible turbine type fluid coupling. R. R. Mosher. 2,658,345, Nov. 10.
Rolling mill for rolling strips or bands and sheets of steel and nonferrous metals. J. Schmidt and F. Frielinghaus. 2,658,741, Nov. 10.
Roof construction for trucks or trailers. W. G. Butsch. 2,658,794, Nov. 10.
Rotary cutter. O. Junker. 2,658,261, Nov. 10.
Rotary multiple contact switch. F. Krahulec. 2,658,963, Nov. 10.
Rotary, turbine-type fluid coupling. F. W. Seybold. 2,658,346, Nov. 10.
Rubber roller. H. Clements. 2,658,262, Nov. 10.
Rule with decimal point indicator, Disk slide. J. M. A. Allais. 2,658,671, Nov. 10.
Safety device for high chairs or the like. C. D. Davis. 2,658,564, Nov. 10.
Salt dentifrice. J. E. Brandenberger. 2,658,851, Nov. 10.
Saw chain. R. E. Ackley. 2,658,537, Nov. 10.
Scaffold. C. F. Long and H. E. Abels. 2,658,803, Nov. 10.
Scale for washing machines, Clothes. H. F. Howard. 2,658,745, Nov. 10.
Scale with micrometer attachment, Linear. D. E. Chappell. 2,658,281, Nov. 10.
Scanning device, Optical. R. J. Wise and G. H. Ridings. 2,658,940, Nov. 10.
Scoop for tractors. R. D. Waller. 2,658,634, Nov. 10.
Screw driver construction. G. L. Rock. 2,658,766, Nov. 10.
Seal. D. Murphy. 2,658,775, Nov. 10.
Seal cutter. F. A. Maitland. 2,658,270, Nov. 10.
Sealing apparatus for open-topped liquid receptacles. H. T. Bashor and C. T. Lutz. 2,658,377, Nov. 10.
Sealing structure. R. Kaiser. 2,658,808, Nov. 10.
Seat: *See*—
  Child's seat.
Seat support. W. E. Nordmark and D. S. Huhta. 2,658,557, Nov. 10.
Sectionalizing machine for extrudable cuttable material. J. R. Urschel. 2,658,542, Nov. 10.
Sediment testing apparatus. D. B. Turner. 2,658,387, Nov. 10.
Seismic prospecting. C. W. Oliphant. 2,658,578, Nov. 10.
Seismometer. R. L. Cordell. 2,659,065, Nov. 10.
Seismometer, Rotational. R. G. Piety. 2,659,064, Nov. 10.
Selectively chloridizing manganese in the treatment of materials containing iron and manganese. I. P. Whitehouse and M. E. Graham. 2,658,813, Nov. 10.
Self-extinguishing alkenylbenzene copolymer composition. R. R. Dreisbach and G. B. Sterling. 2,658,877, Nov. 10.
Self-protecting valve. E. G. Anderson. 2,658,711, Nov. 10.
Self-winding and self-transporting reel. W. J. D. van Dijck. 2,658,256, Nov. 10.
Separation and purification of alkyl phosphoric acids. H. W. Crandall and D. C. Stewart. 2,658,909, Nov. 10.
Separation of contaminated catalyst particles in a hydrocarbon conversion process. A. B. Welty, Jr. 2,658,860, Nov. 10.
Separation of liquid from solids. W. C. Davis and W. H. Bath. 2,658,620, Nov. 10.
Separation of solid materials of different specific gravities. W. Vogel. 2,658,618, Nov. 10.
Separator drying method and apparatus for moisture carrying material. G. B. Ebersole. 2,658,615, Nov. 10.
Serving, mixing, and cooking utensil. J. Mignolet. 2,658,730, Nov. 10.
Sewing machine housing. G. Stehr. 2,658,465, Nov. 10.
Shears, Pinking. E. Kane and E. L. Whitlock. 2,658,274, Nov. 10.
Sheet delivery arrangement for hectographic copying machines. R. Brown and L. H. N. Watton. 2,658,450, Nov. 10.
Sheet handling apparatus. E. A. Matteson. 2,658,752, Nov. 10.
Shelf and container for refrigerator cabinets. F. R. Eck. 2,658,727, Nov. 10.
Shelf divider, Adjustable. T. J. Hilgen. 2,658,628, Nov. 10.
Shelf Swinging refrigerator. F. R. Eck. 2,658,811, Nov. 10.
Shingle. H. J. Luce. 2,658,461, Nov. 10.
Shock absorber for railway car trucks. Friction. G. E. Dath. 2,658,747, Nov. 10.
Shoe having a removable welt, Welt. L. Bazzoli. 2,658,287, Nov. 10.
Shoe release, Automatic Ironing. J. A. Castricone. 2,658,291, Nov. 10.
Shoeshine stand. H. Bascom. 2,658,225, Nov. 10.
Shotgun barrel and choke. G. G. Oberfell. 2,658,298, Nov. 10.
Shower head with volume control. J. Fraser. 2,658,799, Nov. 10.
Shuttle ejector. G. Cadorette. 2,658,531, Nov. 10.
Sign: *See*—
  Luminous sign.
Signal apparatus, Audible. J. Dohm. 2,659,071, Nov. 10.
Signal for electric ranges, Operating. H. R. Kinsella. 2,659,069, Nov. 10.
Signal translating system, Electrical. D. D. Grieg, A. M. Levine, and C. L. Estes. 2,659,049, Nov. 10.
Signal transmission system for use in logging drill hole formations. J. J. Arps. 2,658,725, Nov. 10.
Silencer for internal-combustion engines. F. Trembley. 2,658,580, Nov. 10.
Single side band jamming system. J. F. Byrne. 2,658,992, Nov. 10.
Sizing medium and film sized therewith. R. P. Wymbs. 2,658,835, Nov. 10.
Ski binding. H. Jansen. 2,658,767, Nov. 10.
Sliding device combined with automatic brakes for automotive vehicles. E. D. Velazquez. 2,658,587, Nov. 10.
Smoke agent. J. P. Clay and H. B. Elkins. 2,658,874, Nov. 10.
Snap-in deformable clip holder. L. H. Heuer. 2,658,247, Nov. 10.
Soil conditioning agents of desert plant origin and their use. R. W. Dickenson. 2,658,824, Nov. 10.
Soldering flux. J. A. De Rosa and C. A. Snell. 2,658,846, Nov. 10.
Solenoid for chime signals, Double-acting. L. M. Alexander and E. H. Bladh. 2,659,074, Nov. 10.
Solvent fractionation of wax-containing mixtures. E. W. Clarke. 2,658,853, Nov. 10.
Sound chamber for accordion pickup. W. W. Pompilli. 2,658,420, Nov. 10.
Sound producing device. R. E. Swanson. 2,658,470, Nov. 10.

Sound-recording and reproducing machine, Magnetic. E. E. Masterson. 2,658,398, Nov. 10.
Sound reproducing machine. R. Morris. 2,658,761, Nov. 10.
Spark plug. L. M. Field. 2,658,934, Nov. 10.
Speed variator device, Automatic. R. M. Mercier. 2,658,399, Nov. 10.
Spinning machine drive. J. J. Keyser. 2,658,327, Nov. 10.
Sponge covered spray head, Finger controlled. C. W. Torbert. 2,658,219, Nov. 10.
Sponge cup. G. J. Sengbusch. 2,658,474, Nov. 10.
Sponge, Fountain-type surface washing and wiping. E. C. Carreiro. 2,658,218, Nov. 10.
Spring device, Adjustable overload. A. J. Alletto. 2,658,749, Nov. 10.
Spring suspension system, Vehicle. L. Premoli. 2,658,748, Nov. 10.
Stabilization of chlorosulfonated polymers. R. E. Brooks and M. A. Smook. 2,658,883, Nov. 10.
Stabilization of silicone rubber. R. R. Maneri. 2,658,882, Nov. 10.
Stabilized oxo alcohols. W. F. Fischer. 2,658,923, Nov. 10.
Stacking device, Lumber. T. N. Melin. 2,658,630, Nov. 10.
Stand: *See*—
  Outboard motor stand.
  Shoeshine stand.
Stand for flatirons. F. Grosse. 2,658,708, Nov. 10.
Stand for travel irons. W. R. Weeks. 2,658,293, Nov. 10.
Stapling machine. W. G. Pankonin. 2,658,197, Nov. 10.
Steam finishing board. F. H. Richterkessing and W. M. Cissell. 2,658,370, Nov. 10.
Steering mechanism, Automatic. R. J. Kutzler. 2,659,041, Nov. 10.
Stemming machine, Blossom. C. M. Andersen. 2,658,536, Nov. 10.
Stock reel. F. Koch. 2,658,694, Nov. 10.
Stop for linear actuators, Nonjamming. J. E. Chapman and L. D. Bevan. 2,658,407, Nov. 10.
Stop for pivotally mounted head protective equipment, Adjustable. C. E. Bowers, Sr. 2,658,200, Nov. 10.
Stop mechanism for sectionally adjustable beds. D. C. Travis. 2,658,210, Nov. 10.
Stop motion for roving frames. S. J. Adams. 2,658,326, Nov. 10.
Storing and advancing thread, Method and apparatus for. G. F. D'Alelio. 2,658,255, Nov. 10.
Stove, Cooking. E. G. Maxwell. 2,658,985, Nov. 10.
Strainer for liquid lines, Header. A. W. Rafferty. 2,658,625, Nov. 10.
Structural board from wood waste, extracted flour of soya beans and melamine-urea formaldehyde resin. J. N. Sears. 2,658,878, Nov. 10.
Structural member for grilles and air filters. A. J. Fitzgerald. 2,658,583, Nov. 10.
Structural rod joint. B. C. Wilcox. 2,658,776, Nov. 10.
Suction box. A. W. Tellier. 2,658,789, Nov. 10.
Suction leaf pickup and pulverizing device. O. C. Miller. 2,658,318, Nov. 10.
Sulfontaed anthraquinone naphthocarbazole dyestuffs and preparing them. J. Ogilvie. 2,658,899, Nov. 10.
Sulfurization of di-isobutylene. D. R. Stevens and S. C. Camp. 2,658,900, Nov. 10.
Supplying auxiliary fuel to internal-combustion engines, Means for. W. A. Bevis and P. Cusack. 2,658,490, Nov. 10.
Support: *See*—
  Camera belt support.
  Feeder cup support.
  Seat support.
Support and turbulence effecting device, Combined. E. W. Kaiser. 2,658,530, Nov. 10.
Support for cutting tools. W. G. Hoelscher. 2,658,418, Nov. 10.
Support for electric irons. H. W. Wilson. 2,658,292, Nov. 10.
Supporting pipe clamp. C. B. Wright. 2,658,706, Nov. 10.
Suspension for side delivery rakes. R. W. Johnson. 2,658,324, Nov. 10.
Sway bar bushing applying machine. G. L. Redding. 2,658,269, Nov. 10.
Switch: *See*—
  Compression riveter switch.
  Control switch.
  Delay switch.
  Electric switch.
  Electrical load break switch.
  Liquid level actuated switch.
  Rotary multiple contact switch.
Switch actuating device, Remote control. K. J. Jungholm. 2,658,979, Nov. 10.
Switching means for combined radio and television receivers, Selective electrical. E. D. Thorne. 2,659,001, Nov. 10.
Switching system, Repeater. F. B. Bramhall, E. L. Newell, P. H. Wells and C. H. Cramer. 2,658,945, Nov. 10.
Syringe, Hypodermic. D. O. Furnell. 2,658,511, Nov. 10.
System responsive to liquid level. A. R. Erickson and W. P. Johnson. 2,659,068, Nov. 10.
Table: *See*—
  Foldable exercising and resting table.
  Fracture table.
Tape end for quick-release zippers. R. W. Simpson. 2,658,251, Nov. 10.
Tape recorder feed mechanism. R. H. Carson. 2,658,955, Nov. 10.
Tare adjustment device. E. C. Karp and S. G. Berglund. 2,658,746, Nov. 10.
Target apparatus, Moving. L. J. T. Flory. 2,658,759, Nov. 10.
Target, Automatic. S. and H. C. Johannsen. 2,658,758, Nov. 10.
Target indication system, Self-synchronous moving. A. E. Benfield. 2,659,080, Nov. 10.
Telegraph signal regenerator apparatus. H. C. A. van Duuren. 2,658,944, Nov. 10.
Telegraph system, Printing. J. D. Durkee. 2,658,941–3, Nov. 10.
Telephone selector circuit. W. W. Pharis. 2,658,949, Nov. 10.
Temperature control for refrigerators, Combined illumination and minimum. A. G. Janos. 2,658,968, Nov. 10.
Tension feed control. R. L. Jaeschke. 2,658,751, Nov. 10.
Tensioning and pulling device. F. W. Coffing. 2,658,720, Nov. 10.
Thermostat and automatic pilot control, Combined. M. J. Caparone and C. M. Vaughn. 2,658,686, Nov. 10.
Thiophene polymers. G. C. Johnson. 2,658,902, Nov. 10.
Throttle control for automotive vehicles. L. A. Medlar and G. A. Naab. 2,658,591, Nov. 10.
Ticket issuing machine. R. H. Heisel. 2,658,446, Nov. 10.
Tie rack. G. R. Arseneault. 2,658,626, Nov. 10.
Tilt corrector for fire control computers. S. Darlington and A. A. Lundstrom. 2,658,675, Nov. 10.
Tire buffing band. P. E. Hawkinson. 2,658,258, Nov. 10.
Tire chain cross-link and anchor assembly. A. H. Perlman. 2,658,547, Nov. 10.
Toaster, Electric. G. A. Brace. 2,658,442–3, Nov. 10.
Tobacco cleaner and classifier. L. A. Rowell. 2,658,617, Nov. 10.
Toilet paper holder. E. J. Hill. 2,658,690, Nov. 10.
Tool: *See*—
  Flywheel turning tool.
  Lapping tool.
Tool drive, Machine. W. W. Potter and A. J. Fuller. 2,658,404, Nov. 10.
Tool for changing fluorescent lamp tubes. C. H. Ziese. 2,658,786–7, Nov. 10.
Tool for dressing poultry, Cutting. S. J. Ograbisz. 2,658,235, Nov. 10.
Tool handle connection. M. Z. Andrews. 2,658,804, Nov. 10.
Tool having an air pressure actuated nozzle area varying means, Suction cleaning. D. G. Smellie. 2,658,229, Nov. 10.
Tool holder, particularly for sheet-metal working machines. A. I. K. Slettengren. 2,658,574, Nov. 10.
Torque converter. R. H. Brown. 2,658,594, Nov. 10.
Toy, Airplane. J. H Dawson. 2,658,753, Nov. 10.
Toy airplane control, Tethered. L. Hayes. 2,658,305, Nov. 10.
Toy car loader. J. L. Bonanno and A. D. Gash, Jr. 2,658,602, Nov. 10.
Toy, Climbing. W. J. Holt, Jr. 2,658,306, Nov. 10.
Toy smoke-producing apparatus. F. Pettit. 2,658,303, Nov. 10.
Traction device, Head. W. E. Haskell. 2,658,506, Nov. 10.
Tractor mounting for agricultural implements. J. H. Seng. 2,658,438, Nov. 10.
Trailer hitch, Telescoping. H. R. Forney. 2,658,769, Nov. 10.
Trailer sleeping unit, Universal. H. J. Green. 2,658,212, Nov. 10.
Transformer for connecting a wave guide to a coaxial line. A. Alford. 2,659,054, Nov. 10.
Transmission. D. W. Kelbel. 2,658,412, Nov. 10.
Transmission. P. Orr and C. L. Swift. 2,658,413, Nov. 10.
Transmission line delay network. L. Bess. 2,659,052, Nov. 10.
Transmitter, Loran. S. W. Seeley. 2,658,993, Nov. 10.
Transmitting audio messages, Method of and apparatus for. K. F. G. Wiemer. 2,658,948, Nov. 10.
Transportation of natural gas. B. Miller. 2,658,360, Nov. 10.
Trap: *See*—
  Vapor trap.
Traverse motion for yarn winding machines and the like. M. M. Waldron. 2,658,689, Nov. 10.
Tray hanger. E. F. Whitman. 2,658,705, Nov. 10.
Treatment of copolymer olefins for oxonation. C. A. Cohen and C. W. Muessig. 2,658,932, Nov. 10.
Triple entry posting board. F. J. Kraemer, Jr. 2,658,774, Nov. 10.
Truck and coupler for toy railroads, Combined. F. Pettit. 2,658,629, Nov. 10.
Truck body, Dump. J. A. Nicholson. 2,658,795, Nov. 10.
Truss, Hernial. G. Ajdukovich. 2,658,509, Nov. 10.
Tube of the masked target variety, Cathode-ray. D. W. Epstein. 2,659,026, Nov. 10.
Tube of the reflex type, Velocity modulated. J. Bernier and J. Brossart. 2,659,024, Nov. 10.
Tunable magnetron circuit. A. M. Clogston and W. V. Smith. 2,659,029, Nov. 10.
Tunable magnetron circuit. R. L. Kyhl. 2,659,028, Nov. 10.
Tuner. T. F. Gossard. 2,658,394, Nov. 10.
Turbocompressor power plant for aircraft. A. R. Howell. 2,658,700, Nov. 10.

Tuning device, Mechanical. J. P. Woods. 2,658,393, Nov. 10.
2-alkylphenyl-3,4,5,6-tetrahydropyrimidines. S. A. Ballard and R. R. Whetstone. 2,658,895, Nov. 10.
2,4-diamino-5-benzyl pyrimidines. G. H. Hitchings and E. A. Falco. 2,658,897, Nov. 10.
2-(N-arylethyl-alkylaminomethyl)-furanes. K. Hoffmann and M. Spillmann. 2,658,905, Nov. 10.
Two-stroke internal-combustion engine. N. I. Basabe. 2,658,487, Nov. 10.
Utensil holder. H. B. Heuer. 2,658,707, Nov. 10.
Valve: *See*—
- Electrically operated gas lift valve.
- Gas valve.
- Gate valve.
- Leak valve.
- Manual and automatic valve.
- Poppet valve.
- Pressure responsive cut-off valve.
- Ram-jet launching sequence fuel flow control valve.
- Self-protecting valve.

Valve actuating and latching mechanism. I. J. Acosta. 2,658,717, Nov. 10.
Valve assembly, Dispenser. I. H. Fooshee. 2,658,714, Nov. 10.
Valve device for burners, Safety reset. W. F. Jackson. 2,658,515, Nov. 10.
Valve for dispensing measured quantities, Dispensing. F. Tribbitt. 2,658,648, Nov. 10.
Valve for fluid motors, Piston actuated. T. F. Dreyer. 2,658,485, Nov. 10.
Valve operating mechanism, Throttle. C. E. Kenney. 2,658,484, Nov. 10.
Valve replacement unit. H. H. Kistner. 2,658,715, Nov. 10.
Valve structure. F. H. Johnson. 2,658,523, Nov. 10.
Vapor trap. W. S. Goff. 2,658,517, Nov. 10.
Variable speed hydraulic clutch. J. R. Thomas. 2,658,595, Nov. 10.
Vault construction, Burial. H. D. Richardson. 2,658,253, Nov. 10.
Vehicle window, No-draft, arm signaling. J. F. Anderson. 2,658,791, Nov. 10.
Ventilating device, Room. J. B. Johnson. 2,658,441, Nov. 10.
Vibration isolation unit. E. S. Titus. 2,658,710, Nov. 10.
Wallpaper hanger. W. Goldberg. 2,658,639, Nov. 10.
Warning bulb. A. G. Trapani, Jr. 2,658,467, Nov. 10.
Warning device, Vehicle. A. L. Matschke, Jr. 2,658,967, Nov. 10.
Warning system for controlled rotary drilling. J. J. Arps. 2,658,724, Nov. 10.
Washer: *See*—
- Automatic car washer.

Washing apparatus with cushion and drainage facilities. J. d'A. Y. H. Tcheong. 2,658,512, Nov. 10.
Washing machine. H. D. Bowman. 2,658,371, Nov. 10.
Washing machine. J. B. Kirby. 2,658,372, Nov. 10.
Waste treatment and disposal for vehicles, Sanitary. A. Wolman and W. A. Hablett. 2,658,202, Nov. 10.
Watch, Electrically wound and set. A. R. Nelson. 2,658,329, Nov. 10.
Water channel control gate. R. A. Hill. 2,658,351, Nov. 10.
Water-reservoir construction. W. G. Ribeiro. 2,658,520, Nov. 10.
Water seal for log barking drums. G. F. McClay. 2,658,539, Nov. 10.
Weaving shuttle of molded material having embedded tip-anchoring means. W. J. Gosselin. 2,658,533, Nov. 10.
Welding beryllium and beryllium alloys. D. C. Martin. 2,658,981, Nov. 10.
Well logging system, Radioactivity. S. A. Scherbatskoy. 2,659,014, Nov. 10.
Well pump. D. T. Harbison. 2,658,457, Nov. 10.
Wheel dressing apparatus. N. Hoglund. 2,658,496–7, Nov. 10.
Winding and packaging coils. B. B. Scott, Jr. 2,658,263, Nov. 10.
Winding machine, Spring. P. J. Blanco. 2,658,267, Nov. 10.
Winding mechanism. L. J. Wolf. 2,658,692–3, Nov. 10.
Window and Venetian blind housing, Combined vacuum sealed. D. Engel. 2,658,570, Nov. 10.
Window, Awning type. A. H. Soule. 2,658,750, Nov. 10.
Window balance-tape retainer. E. M. Trammell, Sr., and E. M. Trammell, Jr. 2,658,234, Nov. 10.
Window construction. F. C. Osten, Sr. 2,658,242, Nov. 10.
Wiper blade for curved windshields. S. H. Enochian. 2,658,223, Nov. 10.
Wiping implement, Yieldable. J. J. Mackert. 2,658,222, Nov. 10.
Wire drawing block and stripper assembly. E. J. McIlvried. 2,658,611, Nov. 10.
Wood gathering apparatus. J. G. Sartin. 2,658,638, Nov. 10.
Work object and support securing device. J. Ferda and S. Deutsch. 2,658,765, Nov. 10.
Work unit. H. Ellis and A. K. Wilson. 2,658,810, Nov. 10.
Working glass. W. L. Morgan. 2,658,317, Nov. 10.
Worm feeder. R. Erdmenger and P. Gassen. 2,658,604, Nov. 10.
Wrench device for use on nuts or bolts in normally inaccessible locations, Ratchet. A. J. Duerksen. 2,658,416, Nov. 10.
Writing board lamp and paper holder. A. G. Marschat. 2,658,989, Nov. 10.
X-ray apparatus. W. M. Lee. 2,659,015, Nov. 10.
X-ray densitometer. R. Bromberg and W. L. Martin. 2,659,012, Nov. 10.
X-ray device. J. J. C. Hardenberg. 2,659,010, Nov. 10.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 10, 1953

NOTE.—First number = class, second number = subclass, third number = patent number.

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332.2: 2,658,904
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120: 2,659,082
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Classification of Designs

D 2— 3: Des. 170,840
D 3—13: Des. 170,831
25: Des. 170,800
D 4— 5: Des. 170,806
D10—10: Des. 170,805
D14— 6: Des. 170,832
Des. 170,842
D15— 8: Des. 170,790
Des. 170,791
D17— 3: Des. 170,796

D20— 2: Des. 170,826
D21— 6: Des. 170,843
D22— 3: Des. 170,824
Des. 170,825
D29— 1: Des. 170,799
23: Des. 170,803
D31— 2: Des. 170,833
D33—19: Des. 170,839
D34—13: Des. 170,801
15: Des. 170,802

D44— 1: Des. 170,795
19: Des. 170,830
D45— 4: Des. 170,792
9: Des. 170,809
Des. 170,810
Des. 170,812
Des. 170,815
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D58—12: Des. 170,794
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D72— 1: Des. 170,844
D74— 1: Des. 170,828
D81—10: Des. 170,804
Des. 170,835
D85— 8: Des. 170,845
D90— 8: Des. 170,834
D92— 1: Des. 170,829

U. S. GOVERNMENT PRINTING OFFICE: 0—1953

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I. Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,639,945. Car, Floor, and Wall Washer. Patented May 26, 1953. Spray nozzle for washing motor vehicles, floors, outside walls, etc., includes means for injecting small quantities of soap or the like into the stream of water flowing through the nozzle. The cleaning fluid is injected only as desired, and may be cut off when the water is used for rinsing. The device includes a hollow cylindrical jacket with a tube having threaded ends extending therethrough. A nozzle is connected to one of the threaded ends and a water supply hose is connected to the opposite threaded end. The jacket has an extension in the form of a pistol grip with a trigger for actuating a pump in the extension to inject a small quantity of soapy fluid from the jacket into the stream of water flowing through the tube. (Owner) Allen H. Rowlett, 3385 Stephenson Place, N. W., Washington 15, D. C. Group 35—61. Reg. No. 52,050.

Pat. 2,598,995. Food Carrier Assembly. Patented June 3, 1952. Pail for storing and transporting two or more meals on dinner plates is insulated to keep food thereon warm. A double-wall cylindrical pail has a pivoted bail and an over-hanging flat lid. The lid has an inner and an outer wall for thermal insulation, and carries a gasket which seals the air space between the outer and the lining wall of the pail. Slidable pins on the bail retain the lid in place, and the bail pivots to allow stacking of pails. A tiered tray having shelves welded to posts in vertical spaced relation to accommodate a plate and banquet cover between shelves is easily removable and fits snugly in the pail, with the top shelf abutting the lid when in sealing position. A thin heated soapstone in a metal casing fits within the under rim of a plate. Carrier may be inexpensively made of aluminum or plastic and easily cleaned. (Owner) Christian F. Graff, 106 Norway St., Mechanicsburg, Pa. Groups 33—59; 34—41; 39—81. Reg. No. 52,051.

Pat. 2,633,845. Combined Applicator and Scalp Massager and Container Therefor. Patented Apr. 7, 1953. Container for hair oil or other scalp preparation, and an associated applicator-massager. A transparent container has an annular U-shape well surrounding an opening in the top, with screw threads in the outer surface of the inner wall of the well. An applicator-massager, comprising a handle, body, and depending medium-hard rubber massaging fingers, has an inverted L-shape flange extending around the body and threaded to screw onto the threads on the inner wall of the well, forming a cap closure for the container. The fingers extend into the oil. After use for applying and massaging the oil into the scalp, drippings from the applicator-massager are conveniently caught in the well. One applicator-massager may be used for successively purchased containers. (Owner) Leonard G. Peretti, 2239 North Karlov Ave., Chicago 39, Ill. Groups 30—32; 39—81; 40. Reg. No. 52,052.

Pat. 2,643,001. Window Drapery Support. Patented June 23, 1953. Slidable window curtain and drapery support may be raised and lowered to facilitate mounting curtains and drapes on and removing them from the support without use of a chair or ladder. The support, consisting of a pair of separate rod-like structures, includes a pair of guides to be secured in vertical position to the window trim at opposite sides of the window so that the guides extend downwardly from the top of the window to a point just below the top of the lower sash. A pair of legs slidably mounted on the guides are provided with head formations at the upper ends for slidably and removably receiving the ends of a pair of rods for curtains and drapes. Hooks at the lower ends of the legs may be releasably latched to the guides to hold the legs in raised position. The legs may be unlatched and slid downwardly so that a person standing inside the room may conveniently reach the rods to remove and replace them. (Owner) Leonard G. Peretti, 2239 North Karlov Ave., Chicago 39, Ill. Group 25—62. Reg. No. 52,053.

Pat. 2,592,546. Photoengraving. Patented Apr. 15, 1952. Process for re-etching or gradually lightening the tones of a half-tone photo-engraved plate. A hard waxy material containing candelilla wax as the essential ingredient is spread over the half-tone plate; a portion of such waxy material is removed to expose the high light areas; and the plate is placed in an acidic etching bath to effect reduction in the size of the high light dots. Such removal and etching procedure is repeated until the desired lightening effect is attained. The disadvantages of conventional staging are avoided. (Owner) Agnes Marie Dirkman. Correspondence to Mrs. Dirkman, % Rolf E. Schneider, 128 Hornby Drive, Painted Post, N. Y. Group 27—92—93. Reg. No. 52,054.

Pat. 2,635,764. Rotatable Garment Support. Patented Apr. 21, 1953. Portable clothes hanger rack is adjustable to fit closets of different widths to provide greater hanging space and permit rotation of the clothing, so any article may be easily removed. A rotary unit has a pair of crossed arched members with downwardly directed ends and an open horizontal frame secured to the ends. A fixed unit has a pair of parallel arms with flat overlapping ends, each with a series of adjustment apertures with an aperture of one end aligned with an aperture of the other end. A third, rearward arm on the fixed unit has a flat apertured tongue above the apertures of the overlapping ends of the arms of the fixed unit to receive a pivot bolt to support the rotary unit. The three arms have apertured feet to receive mounting screws for fastening in a closet. (Owner) John C. Mattocks, 153 South Knox Court, Denver 19, Colo. Groups 25—99; 33—59. Reg. No. 52,055.

Pat. 2,191,440. Water Clarifier for Automobiles. Patented Feb. 27, 1940. Water clarifier to be united to the back of an automobile radiator near the upper end in communication with the engine block and the upper chamber of the radiator is adapted to remove oily, foamy sludge and most of the sediment from the cooling water before the water enters the radiator. Alcohol and water vapors rising from the water passing through the clarifier enter the upper chamber of the radiator and are condensed to prevent waste. As the water from the engine block enters the clarifier, the sludge and other light materials are skimmed off and discharged through an overflow pipe connected to the clarifier. Most of the water including the sediment-bearing portion flows downwardly into a sediment chamber in the clarifier. The water from the sediment chamber flows upwardly through a cylindrical screen inside the clarifier into the upper chamber of the radiator. A drain pipe provided with a stop cock is connected to the bottom of the clarifier and to the overflow pipe. (Owner) A. G. Bush, % Bush & Bush, 708 Kahl Building, Davenport, Iowa. Group 38—31. Reg. No. 52,056.

Pat. 2,420,930. Reciprocating Blade Type Slicing Machine. Patented May 20, 1947. Machine for cutting sliced loaves of bread into small cubes for toasting, etc., includes convenient means for interchanging blades to cut cubes of different sizes. The machine comprises a sectional tubular body mounted on a suitable base with upper and lower pairs of rectangular blade-holding frames surrounding the body. Each pair of frames consists of an inner and an outer frame having blades alternately arranged to travel in opposite directions through slots in the tubular sections. The frames of each pair are simultaneously reciprocated in opposite directions with the lower pair traveling at right angles to the upper pair. Bread being cut by the upper sets of blades will reach and be contacted by the cutting edges of the lower sets of blades before passing entirely through the upper sets. A shield prevents the operative mechanism from becoming clogged with bread crumbs or foreign matter. (Owner) A. G. Bush, % Bush & Bush, 708 Kahl Building, Davenport, Iowa. Group 35—51. Reg. No. 52,057.

The following 10 patents are available for licensing on reasonable terms. Applications for license may be addressed to: Manager Patent Dept., California Research Corporation, 200 Bush St., San Francisco 4, Calif.

The patents listed relate generally to: Metallic frictional surfaces pretreated to facilitate wearing-in; and methods of so pretreating such surfaces. Groups 28—34; 35—66.

Pat. 2,263,905. Treatment of Machine Elements To Facilitate Breaking In. Patented Nov. 25, 1941. Reg. No. 52,058.

Pat. 2,266,377. Pretreated Bearing Surface and Method of Producing the Same. Patented Dec. 16, 1941. Reg. No. 52,059.

Pat. 2,266,378. Treatment of Metallic Frictional Surfaces. Patented Dec. 16, 1941. Reg. No. 52,060.

Pat. 2,266,379. Extreme Pressure Lubrication. Patented Dec. 16, 1941. Reg. No. 52,061.

Pat. 2,266,380. Pretreatment of Metal Bearing Surfaces. Patented Dec. 16, 1941. Reg. No. 52,062.

Pat. 2,297,909. Method of Lubrication and of Treating Gears. Patented Oct. 6, 1942. Reg. No. 52,063.

Pat. 2,311,653. Treatment of Frictional Surfaces To Facilitate Wearing-In. Patented Feb. 23, 1943. Reg. No. 52,064.

Pat. 2,315,798. Packing Ring or Bearing Element. Patented Apr. 6, 1943. Reg. No. 52,065.

Pat. 2,343,569. Pretreated Bearing Surface and Method of Producing the Same. Patented Mar. 7, 1944. Reg. No. 52,066.

Pat. 2,414,293. Treatment of Frictional Surfaces To Facilitate Wearing-In. Patented Jan. 14, 1947. Reg. No. 52,067.

Pat. 2,633,887. Punctureproof Steel Inner Tube. Patented Apr. 7, 1953. Inner tube for a vehicle tire is composed of flexible spring steel bands and is designed to eliminate punctures since there is no rubber or compressed air. The tube comprises four sections arranged in a circle, each section being made up of a series of tapering metallic bands in circumferentially spaced relation and connected to each other by two arcuate braces bearing against and joined to the inner surface of all bands in a section. Each band is constructed in substantially circular U-shape, with the free out-turned ends centrally directed and adjustably connected by threaded means arranged transversely thereof for regulating the pressure. Each of the braces connecting the bands within a section has its ends out-turned. A bolt with stationary head and with locking nuts is threaded through the out-turned ends of adjacent sections whereby the sections, assembled within a tire, may be adjusted and locked with respect to each other for proper fit and pressure. (Owner) John E. Hatula, P. O. Box 453, Painesdale, Mich. Groups 30—11; 33—59. Reg. No. 52,068.

Pat. 2,638,382. Portable Shower Attachment. Patented May 12, 1953. Shower spray may be removably attached to a faucet in a bathtub for use without a shower curtain. A substantially rigid tube having a spray head on the upper end and a U-shape portion on the lower end is vertically supported by a bracket attached to the faucet so that the spray head directs the shower within the tub to a person sitting therein. The bracket has an internally threaded ring on one end which is threaded on a threaded boss on the tube just above or below the level of the faucet pipe. The other end of the bracket is fastened to the faucet pipe by means of an open ring with radially disposed thumb screws. A flexible coupling member connects the end of the U, which is spaced below the threaded boss, with the end of the faucet spout. By the bracket and the coupling, two points of suspension are provided whereby the overhung load of the spray is counteracted and the device rigidly supported. (Owners) Ray Evans and John L. Essary, 311 Morgan St., Knoxville, Tenn. Groups 30—32; 33—61; 34—41. Reg. No. 52,069.

Pat. 2,575,848. Grapefruit Cutting Implement. Patented Nov. 20, 1951. Implement for quick and sanitary cutting out of grapefruit sections and core. A pair of scissors-like tong levers are pivoted together at the middle. At the operating end of each lever a bar-like cutter extends downward at right angles, and a half frusto-conical cutter extends upward. Manipulating the tongs by ears at the other ends, the user pierces the bar-like cutters in closed position into the flesh of a half grapefruit at the point of a sector and pulls the cutter backward along the pulp walls, simultaneously spreading the ears apart. At the rind, the ears are brought together again, drawing the cutters along the rind until they meet. To remove the core, the user reverses the implement, piercing the half conical cutters around the core and rotating the fruit with the other hand. (Owner) Frank R. Stemp, Poplar Hall, 208 Norwood Road, Annapolis, Md. Group 33—49—51. Reg. No. 52,070.

Pat. 2,520,066. Linoleum and Asphalt Tile Remover. Patented Aug. 22, 1950. Reg. No. 52,071.

Pat. 2,642,272. Blade Mounting Structure for Linoleum and Asphalt Tile Remover. Patented June 16, 1953. Reg. No. 52,072.

These two patents disclose a surface scraper for removing linoleum, asphalt tiles, etc., which is constructed for yielding of the blades when an obstacle is encountered. The scraper is supported on a mobile base resembling an ordinary sander, with an electric motor for driving scraper blades. Extending from the front of the base are a pair of transversely spaced parallel supporting brackets, between which a rotor shaft is journaled. Pairs of radially extending axially spaced arms are secured at even angular intervals around the rotor shaft. In Pat. 2,520,066 the arms are welded to the shaft. In Pat. 2,642,272 the rotor shaft has a drum, through slots in which the arms, in the form of metal straps, are resiliently mounted on the shaft for rotation therewith. Between each pair of arms is pivotally mounted a triangular scraper blade, having a knife edge at its apex, and its center of gravity offset from the radius of the pivot shaft. The arrangement is such that during rotation of the shaft centrifugal force urges the blades for radially extending the knife edges to their greatest extent, limited by a stop, but upon striking an obstruction the blades are pivoted in a reverse direction. (Owner) Thomas C. Rush, Route 1, Mansfield, Mo. Group 36—21.

Pat. 2,636,184. Flushing Valve Mechanism. Patented Apr. 28, 1953. To conserve water, this simple attachment may be easily added to the ordinary floatable-valve assembly in a toilet flush tank, so that a "short flush" or a "full flush" may be selectively accomplished. The attachment is a finger arm clamped to the interior wall of the tank and fitting over the bushing in which the ordinary crankpin is journaled. The crankpin is turned by an outer crank arm to raise the lever which lifts the buoyant valve ball from the valve seat. The attached finger arm carries an outstanding ear on which is a downwardly bowed spring-pressed finger blade disposed in the path of the lifting lever to form a resilient stop. The tension of this blade may be so adjusted that if the user, feeling the contact of the blade with the rising lever, holds the crankpin at that point, the valve ball is raised from the valve seat only enough to allow a partial flush. For a full flush, the blade pressure may be easily overridden by further depressing the lever. (Owners) Ralph W. Skutt and Cornelius R. Skutt, P. O. Box 202, Olympia, Wash. Groups 32—61; 33—61. Reg. No. 52,073.

Pat. 2,633,883. Coconut Shredder. Patented Apr. 7, 1953. Utensil for shredding the meat from a coconut part clamped in a gripper is fastened to a table edge and actuated by a hand crank. A table-clamped supporting frame comprises an upright post with an arcuate section extending from its upper end and curved downward parallel to and spaced from the post. A threaded shaft, provided with fingers on the end for forcing through the meat of a coconut part, is journaled in a bearing in the post, extending horizontally toward the lower end of the arcuate portion. The shaft is rotated by a hand crank journaled lower on the post. An adjusting screw is threaded in the arcuate portion and has a gripper journaled in its inner end which is positioned to coact with the finger end of the horizontal shaft for clamping a coconut part therebetween in shredding position. Two spring-held shredding knives are eccentrically pivoted on arms extending from a sliding base. The base is advanced by means on the rotating shaft so that one knife cuts the center of the coconut and the other cuts around the edges. (Co-owner) Angel E. Hernandez, Catarman, Samar, Philippines. Groups 33—51; 34—99. Reg. No. 52,074.

Pat. 2,625,989. Rolling Stool Having Means To Lock It Against Rolling. Patented Jan. 20, 1953. Rollable stool, having a base member operated by a movement of user's foot to lock stool in desired position on a floor, is particularly useful for dentists, physicians, or like workers. An upstanding post having a seat mounted on top is reciprocable vertically through a horizontal support mounted on casters. A base member with a rubber sheeting to prevent slipping is fixed on the lower end of the post to bear on the floor. When stool is unoccupied, the base member and post are urged upward by a spring and held away from the floor by a latch mechanism. When a person sits on the stool, he may roll it to a desired position, and by a movement of his foot on a circular release member tiltably supported on the post he may tilt this member to release the latch mechanism. His weight then lowers the post and pushes the base member to the floor, preventing the stool from moving. To move the stool, he rises momentarily so the post is moved upward by a spring, and the latch is moved into latching position again. (Owners) Kenneth H. Pond and Frederick Rogers, Correspondence to Ross & Ross, 1387 Main St., Springfield, Mass. Group 25—11—14—22—32. Reg. No. 52,075.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 10, 1953

[VOL. 676. NO. 2]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 623,330. The Armstrong Rubber Company, West Haven, Conn. Filed Jan. 9, 1952. (Sec. 2f.)

ARMSTRONG

PURE FOAM

The words "Pure Foam" are disclaimed apart from the mark shown. Applicant claims ownership of Registration No. 427,794.

For Sponge and Foam Rubber.

Claims use since on or about Dec. 20, 1951, as to the mark shown; and since on or about Jan. 1, 1917, as to the mark "Armstrong."

Ser. No. 635,208. The Welch Nurseries, Inc., Shenandoah, Iowa. Filed Sept. 12, 1952.

FLAME

For Flower Plants—Namely, Violets (*Episcia Coccinea*)

Claims use since February 1952.

Ser. No. 638,688. The Buckeye Products Company, Cincinnati, Ohio. Filed Nov. 28, 1952.

SLINGER-SLICK

No claim being made to the exclusive right to the use of the word "Slick," separate and apart from the mark as shown.

For Liquid Parting Agent for Foundry Patterns.

Claims use since Dec. 15, 1951.

Ser. No. 638,950. Dickson Fuel Corporation, Philadelphia, Pa. Filed Dec. 4, 1952.



No claim is made with respect to the words "Black," "The Finest," or "Anthracite," apart from the mark as shown in the drawing.

For Coal.

Claims use since Nov. 3, 1952.

Ser. No. 644,781. Phoenix Fuel Company, Louisville, Ky. Filed Apr. 6, 1953.



The drawing is lined to indicate the color blue.

For Bituminous Coal.

Claims use since June 11, 1951.

Ser. No. 644,833. Eastmor Leather Trading Corp., Gloversville, N. Y. Filed Apr. 7, 1953.

EASTGLO-PEL *Suede*

No claim is made to the word "Suede." Applicant claims ownership of Registration No. 516,517.

For Water Repellent Hides, Skins, and Suedes.

Claims use since Feb. 10, 1953.

Ser. No. 646,701. Virginia-Carolina Chemical Corporation, Richmond, Va. Filed May 8, 1953.

Vicara

Applicant claims ownership of Registration No. 501,832.

For Protein Fiber for Use in Making Textile Yarns and Fabrics.

Claims use since Feb. 9, 1949, as to the mark shown; and since July 22, 1947, as to the name "Vicara."

Ser. No. 646,919. Arizona Chemical Company, New York, N. Y. Filed May 13, 1953.

ACINTOL

Applicant claims ownership of Registration No. 546,338.
For Crude Tall Oil, Tall Oil Pitch, and Tall Oil Rosin.
Claims use since Apr. 8, 1950.

Ser. No. 646,924. Crossett Chemical Company, Crossett, Ark. Filed May 13, 1953.

SEECOTOL

For Tall Oil.
Claims use since Apr. 18, 1953.

Ser. No. 647,006. Hercules Powder Company, Wilmington, Del. Filed May 14, 1953.

FABCEL

For Cotton Fibers Modified by Acetylation or Other Chemical Treatment.
Claims use since Apr. 13, 1953.

CLASS 2

RECEPTACLES

Ser. No. 614,593. Washington Steel Products, Inc., Tacoma, Wash. Filed May 31, 1951.

WASHINGTON LINE

The words "Washington Line" are disclaimed apart from the mark as shown in the drawing.
For Vegetable Storage Bins, Fruit Storage Bins, Fruit and Vegetable Storage Bins, and Multiple Unit Fruit and Vegetable Storage Bins Constructed of Metal.
Claims use since Apr. 1, 1950.

Ser. No. 623,383. Aktiebolaget Tetra Pak, Lund, Sweden. Filed Jan. 10, 1952.

TETRA PAK

No claim is made to the exclusive use of the word "Pak" apart from and except in association with the rest of the mark. Applicant claims ownership of Swedish Registration No. 71,196, dated Dec. 14, 1951.
For Cartons Made of Non-Vitreous, Non-Metallic Flexible Sheet Material, Which Cartons Have the Shape of a Substantially Regular Tetrahedron, Each of the Four Sides of Which Is a Substantially Regular Triangle; and Shipping and Storage Containers Having a Horizontal Cross-Section of Hexagonal Form for Use With the Aforesaid Cartons.
Claims use since on or about the latter part of March 1951; and first used in commerce between Sweden and the United States on or about the end of March 1951.

Ser. No. 623,385. Aktiebolaget Tetra Pak, Lund, Sweden. Filed Jan. 10, 1952.

TETRA PAK

No claim is made to the exclusive use of the word "Pak" apart from and except in association with the rest of the mark. Applicant claims ownership of Swedish Registration No. 71,204, dated Dec. 14, 1951.
For Cartons Made of Non-Vitreous, Non-Metallic Flexible Sheet Material, Which Cartons Have the Shape of a Substantially Regular Tetrahedron, Each of the Four Sides of Which Is a Substantially Regular Triangle; and Shipping and Storage Containers Having a Horizontal Cross-Section of Hexagonal Form for Use With the Aforesaid Cartons.
Claims use since on or about the latter part of March 1951; and first used in commerce between Sweden and the United States on or about the end of March 1951.

Ser. No. 630,696. Belknap Hardware and Manufacturing Company, Louisville, Ky. Filed June 4, 1952

BLUE GRASS

For Picnic Jugs, Vacuum Bottles, Lunch Boxes, Garbage Cans, Buckets, and Pails.
Claims use since 1946.

Ser. No. 637,536. Container Corporation of America, Chicago, Ill. Filed Nov. 3, 1952.

SHAINWOOD

For Paper Board Boxes and Cartons.
Claims use since on or about Aug. 1, 1949.

Ser. No. 639,492. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Paper Bags, Baskets, Bird Baths, Garbage and Waste Cans, Jewel Boxes Made of Material Other Than Metal or Glass, Trays, Powder Puff Boxes, Bread Boxes, Vanity Cases Sold Empty, Compact Cases Sold Empty, Lipstick Holders Sold Empty, Garment Storage Bags, Shoe Storage Bags, Hat Storage Boxes, Salad Bowls Made of Material Other Than Metal or Glass, Salt and Pepper Holders, Plastic Perfume Dispenser Bottles, Clothes Hampers, Plastic Hair Receiving Trays.
Claims use since 1867.

Ser. No. 639,509. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Paper Bags, Baskets, Bird Baths, Garbage and Waste Cans, Jewel Boxes Made of Material Other Than Metal or Glass, Trays, Powder Puff Boxes, Bread Boxes, Vanity Cases Sold Empty, Compact Cases Sold Empty, Lipstick Holders Sold Empty, Garment Storage Bags, Shoe Storage Bags, Hat Storage Boxes, Salad Bowls Made of Material Other Than Metal or Glass, Salt and Pepper Holders, Plastic Perfume Dispenser Bottles, Clothes Hampers, Plastic Hair Receiving Trays.
Claims use since 1932.

Ser. No. 643,670. Emco Porcelain Enamel Co., Inc., Port Chester, N. Y. Filed Mar. 16, 1953.

Binister

For Assembly of Food Storage Bins Formed of Metal.
Claims use since Feb. 18, 1953.

Ser. No. 644,105. Eureka Manufacturing Company, Inc., Taunton, Mass. Filed Mar. 24, 1953.

EMCO

For Fabric Lined Cases of Wood Covered With Real or Artificial Leather or Similar Material for Household Storage of Silverware.
Claims use since May 14, 1952.

Ser. No. 646,627. Protex Products Company, Inc., New York, N. Y. Filed May 7, 1953.

PARA-JET

For Dress Bags, Suit Bags, Comforter Bags, Bags With Shelves, Gown Bags, Shoe Bags, Rug Bags, Coat Bags, All Used for Storage Purposes.
Claims use since Jan. 15, 1953.

Ser. No. 648,673. International Paper Company, New York, N. Y. Filed June 12, 1953.

BON TON

For Paper Bags.
Claims use since approximately Aug. 15, 1930.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 634,020. Richard Morszeck, Koln-Junkersdorf, Germany. Filed Aug. 6, 1952.

RIMOWA

Applicant claims ownership of German Registration No. 440,439, dated July 28, 1931.
For Trunks.

Ser. No. 647,367. Platt Luggage, Inc., Chicago, Ill. Filed May 20, 1953.

Checkmate

For Men's Hand Luggage—Namely, Companion or Overnight Cases, One Suiters, Two Suiters, and Three Suiters or Oversize Cases; and Women's Hand Luggage—Namely, Victoria Cases, Hat and Shoe Cases, Overnight Cases, Wardrobe Cases, Pullman Cases, Tray Pullman Cases, and Fortnighters or Jackknife Cases.
Claims use since January 1951.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 627,917. Alatol, Incorporated, Philadelphia, Pa. Filed Apr. 11, 1952.

Alatol

For Abrasive Black Board Scrub Block Made of Vitrified and Absorbent Aluminum Oxide and Clay.
Claims use since May 15, 1931.

Ser. No. 628,851. Lucien Dore, doing business as Plast-O-Bright Products, Miami, Fla., assignor to Du Verger-Dennis Corporation, Miami, Fla., a corporation of Florida. Filed Apr. 29, 1952.

PLAST-O-BRIGHT

The word "Bright" is disclaimed apart from the mark as shown in the drawing.
For Polish for Cars and for Household Use.
Claims use since Apr. 1, 1952.

Ser. No. 643,453. A. I. T. Diamond Tool Company, Chicago, Ill. Filed Mar. 11, 1953.

AL-ALOID

For Diamond Abrasive Wheels.
Claims use since Jan. 27, 1953.

Ser. No. 645,078. Simoniz Company, Chicago, Ill. Filed Apr. 10, 1953.

HiLite

Applicant claims ownership of Registration No. 312,583.
For Furniture Polish.
Claims use since 1932.

Ser. No. 646,166. Rathgeber Laboratories, New Haven, Conn. Filed Apr. 29, 1953.

RAYFLEX

For Wax Polish for Furniture and Automobiles.
Claims use since August 1938.

Ser. No. 646,454. E. Reed Burns Mfg. Corp., Brooklyn, N. Y. Filed May 5, 1953.

EMERITE

For Buffing and Polishing Compounds.
Claims use since Nov. 6, 1928.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 614,574. Service Industries, Philadelphia, Pa. Filed May 31, 1951.

R-MOR-PLATE

For Non-Poisonous Metal Hardening Compound.
Claims use since May 22, 1951.

Ser. No. 635,197. Sandoz Chemical Works, Inc., New York, N. Y. Filed Sept. 12, 1952.

LANASYN

For Dyestuffs in Powder Form.
Claims use since May 8, 1952.

Ser. No. 637,944. Pittsburgh Plate Glass Company, Pittsburgh, Pa. Filed Nov. 12, 1952.

Coro-p.e.p.s.

Applicant claims ownership of Registrations Nos. 533,213, 533,212, and others.
For Horticultural Spray.
Claims use since Mar. 27, 1952.

Ser. No. 644,510. Metal Mending Products, Inc., Milwaukee, Wis. Filed Mar. 31, 1953.

GREEN STREAK
TRADE MARK 1936

The words and year "Trade mark 1936" are disclaimed.
For All-Metal Fluxes for Soldering.
Claims use since Oct. 9, 1936.

Ser. No. 645,969. The Dow Chemical Company, Midland, Mich. Filed Apr. 27, 1953.

TRI-PRO

For Composition for Adding to Antifreeze Solutions To Inhibit Attack Thereof on Metals.
Claims use since Apr. 8, 1953.

Ser. No. 646,349. Aseptic-Thermo Indicator Co., Los Angeles, Calif. Filed May 4, 1953.

ATI

For Chemically Treated Paper Indicators Which Are Adapted To Change Color When Subjected to a Predetermined Time-Temperature Exposure.
Claims use since August 1932.

Ser. No. 646,786. Metro-Atlantic Inc., Centredale, R. I. Filed May 11, 1953.

EMBO

For Textile Resin Finishes.
Claims use since Mar. 15, 1953.

Ser. No. 646,787. Metro-Atlantic Inc., Centredale, R. I. Filed May 11, 1953.

EMBO-SET

For Textile Resin Finishes.
Claims use since Mar. 15, 1953.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 646,522. Central Compounding Company, Chicago, Ill. Filed May 6, 1953.

BYTANEUM

For Additive for Flexographic Aniline Inks.
Claims use since Apr. 21, 1953.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 625,336. The Carney Company, Inc., Mankato, Minn. Filed Feb. 21, 1952.

Spun-Lite

The term "Lite" is disclaimed apart from the mark as shown.
For Rockwool Batts.
Claims use since Dec. 15, 1951.

Ser. No. 626,567. Wilbert W. Haase Co., Broadview, Ill. Filed Mar. 17, 1952.

Wilbert

For Materials and Supplies Used in the Manufacture of Burial Vaults—Namely, Hard Asphalt, Asphaltic Sealing Compositions, Volatile Hydrocarbon Solvents Used in Bonding Hard Asphalt to Concrete, Asphaltic Coating Compositions for Coating and Sealing Burial Vault Surfaces and Rendering Them Water-Resistant.
Claims use since on or about Feb. 2, 1951, in the form shown; and since January 1945, in a different form.

Ser. No. 628,927. Dyckerhoff Portland-Zementwerke A.-G., Wiesbaden, Germany. Filed Apr. 30, 1952.



Applicant claims ownership of German Registration No. 554,557, dated Feb. 22, 1943.
For Portland Cement.
Claims use since 1936; and first used in commerce with the United States in March 1937.

Ser. No. 629,232. Compagnie Generale Des Conduites D'Eau, Les Vennes, Liege, Belgium. Filed May 6, 1952.

NEUTROMELT

Priority is claimed under Sec. 44(d). Belgian application filed Dec. 1, 1951, Registration No. 6,838, dated Dec. 1, 1951.
For Refractory Substances in Powder or Plastic Form for Use in Lining Furnaces, Cupolas and the Like, and in Manufacturing Bricks, Slabs, and the Like.

Ser. No. 634,050. Minnesota and Ontario Paper Company, Minneapolis, Minn. Filed Aug. 16, 1952.

HARDLAP

For Water Proofed Vegetable Fiber Board Used for Siding.
Claims use since Aug. 8, 1952.

Ser. No. 636,114. Louis J. Buckman, doing business as Namkub Products Co., South Boston, Mass. Filed Oct. 3, 1952.

PERMASEAM

For Semi-Rigid Plastic Seam and Edge Binding for Flooring.
Claims use since Sept. 15, 1948.

Ser. No. 637,803. Universal Form Clamp Co., Chicago, Ill. Filed Nov. 7, 1952. (Sec. 2f.)

TWISTYE

Applicant claims ownership of Registration No. 353,881.
For Form Clamps for Reinforcing Concrete.
Claims use since Sept. 8, 1933.

Ser. No. 639,230. Sydney Mann, doing business as Home Improvement Company, Kansas City, Mo. Filed Dec. 9, 1952.

SUPER WALL

No claim is made to the words "Super" and "Wall" apart from the mark as shown on the drawing.
For Siding and Wallboard.
Claims use since Mar. 1, 1950.

Ser. No. 640,828. Wood-Treating Corporation, Cleveland, Ohio. Filed Jan. 15, 1953.

TYLIFE

For Frangible Capsules To Be Inserted in Spike Holes of Railroad Ties and Containing a Compound Which Is Released by the Breaking of the Capsule Upon the Insertion of Another Spike, Said Compound Flowing Into the Fibers of the Tie To Seal, Fill, and Preserve the Same and Assist in Holding the Fastening in the Tie.
Claims use since December 1952.

Ser. No. 640,988. Wisconsin Door Company, Livonia, Mich. Filed Jan. 19, 1953.

SPARTAN

For Birch Flush Doors.
Claims use since Dec. 1, 1952.

Ser. No. 641,321. Nesco Corporation, doing business under the name and style New England Sales Co., Waterbury, Conn. Filed Jan. 26, 1953.



The stippling shown on the drawing indicates shading only.
For Windows, Doors, Screens, and Metal and Wooden Awnings.
Claims use since Jan. 3, 1953.

Ser. No. 642,434. Wasco Flashing Co., Cambridge, Mass. Filed Feb. 18, 1953.

Wascolite Ceiling Dome

The words "Ceiling Dome" are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 335,851, 550,045, and others.
For Skylights.
Claims use since Sept. 1, 1951.

Ser. No. 642,435. Wasco Flashing Co., Cambridge, Mass. Filed Feb. 18, 1953.

Wascolite Skyshade

Applicant claims ownership of Registrations Nos. 335,851, 550,045, and others.
For Skylights.
Claims use since July 30, 1952.

Ser. No. 643,799. Sta-Dri, Inc., Odenton, Md. Filed Mar. 17, 1953. (Sec. 2f.)

Sta-Dri

Applicant claims ownership of Registrations Nos. 543,169 and 536,034.
For Mineral Powder Compound To Be Mixed With Water or With Water and Sand for Use as a Plaster or Mortar To Render Porous Masonry Water Resistant.
Claims use since Feb. 14, 1947.

Ser. No. 643,823. W. S. Dickey Clay Manufacturing Co., Kansas City, Mo. Filed Mar. 18, 1953. (Sec. 2f.)

FLASH-LOK

Applicant claims ownership of Registration No. 303,140.
For Roof Flashing.
Claims use since Mar. 17, 1932.

Ser. No. 645,282. Andresen Corporation, Chicago, Ill. Filed Apr. 15, 1953.

BLAXEAL

For Cold Tar Product Used for Sealing Black Top Roads.
Claims use since Aug. 21, 1952.

Ser. No. 645,847. United States Plywood Corporation, New York, N. Y. Filed Apr. 23, 1953.

L-1R

For Plywood.
Claims use since Dec. 28, 1951.

Ser. No. 645,848. United States Plywood Corporation, New York, N. Y. Filed Apr. 23, 1953.

ZEPREX

For Structural and Insulating Material of Light Weight Concrete Formed Into Building Slabs, Roofing, Floor and Wall Slabs, Beams, Blocks, Insulating Slabs, and as a Fire Resistant Core Material for Doors, Partition Panels, and Building Panels Over Which Decorative Faces Are Applied.
Claims use since Mar. 9, 1953.

Ser. No. 646,398. Johns-Manville Corporation, New York, N. Y. Filed May 4, 1953.

ECONOVENT

For Asbestos-Cement Flue Pipe.
Claims use since on or about Mar. 27, 1953.

Ser. No. 647,126. Overly Manufacturing Company, Greensburg, Pa. Filed Apr. 22, 1953.

Overline

For Doors.
Claims use since January 1953.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 618,328. The Toledo Desk and Fixture Company, Maumee, Ohio, assignor to Toledo Desk & Fixture Corporation, a corporation of Ohio. Filed Sept. 1, 1951.

Beauty Queen

For Combination Sinks and Cabinets.
Claims use since February 1949.

Ser. No. 624,376. J. A. Zurn Mfg. Co., Erie, Pa. Filed Jan. 31, 1952.

DURA-CHROME

The word "Chrome" as shown in the drawing is disclaimed apart from the mark.
For Cleanout Fittings for Gaining Access in Cleaning Out Horizontal and/or Vertical Piping Through Walls and Floors, Access Fittings for Gaining Access to Enclosed Piping, Cleanout and Access Fitting Frames and Covers and Cleanout and Access Fitting Plugs, Access Boxes, and Shower Heads and Fittings.
Claims use since Sept. 1, 1948.

Ser. No. 624,378. J. A. Zurn Mfg. Co., Erie, Pa. Filed Jan. 31, 1952.

DURA-PLATE

The word "Plate" is disclaimed from the mark as shown.
For Cleanout Fittings for Gaining Access in Cleaning Out Horizontal and/or Vertical Piping Through Walls and Floors, Access Fittings for Gaining Access to Enclosed Piping, Cleanout and Access Fitting Frames and Covers, Cleanout and Access Fitting Plugs, Access Boxes, and Shower Heads and Fittings.
Claims use since Mar. 1, 1949.

Ser. No. 631,856. The Enterprise Aluminum Company, Massillon, Ohio. Filed June 27, 1952.

Rapid Chef

For Base Metal Cooking Hollow Ware—Namely, Cooking Pots, Drip Coffee Makers, Percolators, Combination Cookers and French Fryers, Lipped Sauce Pans, Covered Sauce Pans, Covered Sauce Pots, Double Boilers, Egg Poachers, Fry Pans, Chicken Fryers, Twin Fryers, Colanders, Steamers, Water Pitchers, Dish Pans, Roasters, Roaster Racks, Dutch Ovens, Trivets, Roaster Pans, Universal Pans, Utility Pans, Cake Pans, Cooky Sheets, Sauce Pan Strainers, Coffee Brewers, Pressure Cookers, Covered Sauce Pans With Egg Poachers and Racks, Casseroles, Baby Food Warmers, Baby Bottle Warmers, Three-Way Cookers, and Open Sauce Pans.
Claims use since Dec. 20, 1945.

Ser. No. 636,358. S. A. Hirsh Manufacturing Co., Skokie, Ill. Filed Oct. 8, 1952.

HIRSHLOK

Applicant claims ownership of Registration No. 522,311
For Shelf Molding Price Tag Holder.
Claims use since October 1949.

Ser. No. 636,503. T. D. Williamson, Inc., Tulsa, Okla. Filed Oct. 10, 1952.

INSULATION

The representation of the goods per se as shown in the drawing is disclaimed apart from the mark shown in the drawing.
For Insulating Device Comprising Spacer Bars Mounted Upon a Suitable Support to Space, Support, and Insulate a First Pipe Passing Through a Second Pipe, Such as in a Pipe Line Crossing One Pipe Inside Another.
Claims use since Apr. 2, 1952.

Ser. No. 639,115. Heller Hostess-Ware, Inc., White Plains, N. Y. Filed Dec. 6, 1952.

COLORAMA

For Beverage Sets Comprising Tumblers and Pitcher; Serving Tray; Coasters; Stein Set; Tea Kettle; All Made of Anodized Aluminum.
Claims use since January 1950.

Ser. No. 646,313. Rival Manufacturing Company, Kansas City, Mo. Filed May 1, 1953.

Whirl-A-Gig

For Cooking Apparatus—Namely, Racks for Holding Food During Broiling or Barbecuing Thereof.
Claims use since Apr. 1, 1953.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 638,776. The New Jersey Zinc Company, New York, N. Y. Filed Nov. 29, 1952. (Sec. 2f.)

LEHIGH

Applicant claims ownership of Registration No. 530,544.
For Slab Zinc.
Claims use since Nov. 4, 1952.

Ser. No. 644,664. The Carpenter Steel Company, Reading, Pa. Filed Apr. 3, 1953.

TGS

For Steel in the Form of Wire, Strips, Bars, and Billets.
Claims use since Feb. 20, 1953.

CLASS 15

OILS AND GREASES

Ser. No. 621,016. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Filed Nov. 8, 1951.

ISCO

Applicant claims ownership of Registrations Nos. 156,307 and 331,999.
For Electrotypers' Wax, Bayberry Wax, Ceresine Wax, Montan Wax, Ozokerite Wax, and Blended Wax Compositions.
Claims use since Jan. 9, 1951.

Ser. No. 621,017. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Filed Nov. 8, 1951.

ISCO

Applicant claims ownership of Registrations Nos. 156,307 and 331,999.
For Electrotypers' Wax, Bayberry Wax, Ceresine Wax, Montan Wax, Ozokerite Wax, and Blended Wax Compositions.
Claims use since Jan. 9, 1951.

Ser. No. 647,468. American Grease Stick Company, Muskegon and Muskegon Heights, Mich. Filed May 22, 1953. (Sec. 2f.)

LOCK-EASE

Applicant claims ownership of Registration No. 509,981.
For Lubricating Oils.
Claims use since Feb. 26, 1947.

Ser. No. 647,947. Ohlsson & Rice Inc., Los Angeles, Calif. Filed May 29, 1953. (Sec. 2f.)

Ohlsson & Rice

For Internal Combustion Engine Fuels.
Claims use since November 1947.

Ser. No. 647,949. Ohlsson & Rice Inc., Los Angeles, Calif. Filed May 29, 1953.



For Internal Combustion Combustion Engine Fuels.
Claims use since November 1947.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 622,649. General Paint Corporation, San Francisco, Calif. Filed Dec. 18, 1951.

Velva-cote

No claim is made to the word "Cote" apart from the mark as shown.
For Interior Wall Paint.
Claims use since 1910.

Ser. No. 632,420. Dupli-Color Products Co., Inc., Chicago, Ill. Filed July 11, 1952.

BRIGHT BEAUTY

No registration rights are claimed for the word "Bright" apart from the mark as shown in the drawing.
For Decalcomania Color Tones in the Nature of Paints or Lacquers.
Claims use since June 18, 1952.

Ser. No. 646,943. Inertol Co., Inc., Newark, N. J. Filed May 13, 1953.

FLORWEAR

For Water-Resistant and Protective Paint or Enamel Coating for Concrete, Steel, Wood, Plaster, Masonry, and Metal Surfaces in General (in the Nature of a Paint, and Applicable by Brush or Spray).
Claims use since Apr. 24, 1953.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 606,977. James W. Kellogg, doing business as James W. Kellogg Co., Chicago, Ill. Filed Nov. 27, 1950.

Kellmin

For Mineral Nutrient Tablets for Human Dietary Supplement.
Claims use since Nov. 10, 1950.

Ser. No. 621,190. Xenoteck, Inc., Van Nuys, Calif. Filed Nov. 13, 1951.

ORGANI-CAL

For Calcium, Phosphorus, and Vitamin C and D Preparation in Wafer Form.
Claims use since June 19, 1946.

Ser. No. 621,353. Berjon Company, Memphis, Tenn. Filed Nov. 17, 1951.

ACT-ON

Applicant claims ownership of Registration No. 333,670.
For Alkalinized Analgesic Compound for the Relief of Pain.
Claims use since Feb. 1, 1951.

Ser. No. 630,196. Meyer Chemical Company, Detroit, Mich. Filed May 24, 1952.

ALMEHIST

Applicant claims ownership of Registrations Nos. 514,885, 522,657, and others.
For Preparation for Relief of Allergic Conditions in Capsule Form.
Claims use since Jan. 2, 1952.

Ser. No. 641,755. Winthrop-Stearns Inc., New York, N. Y. Filed Feb. 4, 1953.

LÉVOPHINE

Applicant claims ownership of Registration No. 434,232.
For Decongestant and Vasoconstrictor Preparation.
Claims use since Dec. 1, 1952.

Ser. No. 642,373. Schering Corporation, Bloomfield, N. J. Filed Feb. 17, 1953.

PENTIODAX

For Choleocystographic Medium.
Claims use since Dec. 2, 1952.

Ser. No. 647,212. Mathieson Chemical Corporation, New York, N. Y. Filed May 18, 1953.

RAUDIXIN

For Antihypertensive Agent.
Claims use since May 4, 1953.

Ser. No. 647,252. Wickston Laboratories, Berkeley, Calif. Filed May 18, 1953.

WICKSTON

For Protein, Wheat Germ, and Liver Concentrate Adapted as a Dietary Supplement for Human Consumption.
Claims use since Apr. 27, 1952.

Ser. No. 647,316. Marion R. Pope, Eagletown, Okla. Filed May 19, 1953.

SILVER BAR

For Tonic for Treatment of the Hair and Scalp.
Claims use since May 1, 1952.

Ser. No. 647,328. The Upjohn Company, Kalamazoo, Mich. Filed May 19, 1953.

Depo - Testadiol

Applicant claims ownership of Registration No. 515,760.
For Medicinal Preparation for the Treatment of Hormonal Insufficiencies and Dysfunctions.
Claims use since Mar. 5, 1953.

Ser. No. 647,361. The S. E. Massengill Company, Bristol, Tenn. Filed May 20, 1953.

BRONIACIN

For Sedative.
Claims use since May 8, 1953.

Ser. No. 647,371. Walter Ratner, doing business as Rentar, Chicago, Ill. Filed May 20, 1953.

RENTAR

For Medicated Cream for the Feet.
Claims use since May 15, 1953.

Ser. No. 647,377. The Stillman Company, Aurora, Ill. Filed May 20, 1953. (Sec. 2f.)

STILLMAN'S

Applicant claims ownership of Registration No. 305,830.
For Medicated Douche Powder, Antiseptic and Hygienic Jelly, and Antiseptic Hygienic Suppositories.
Claims use since May 21, 1931.

Ser. No. 647,406. First Texas Chemical Mfg. Co., Dallas, Tex. Filed May 21, 1953.

MATRITE

For Preparation for the Temporary Relief to Essential Hypertension.
Claims use since June 1, 1950.

Ser. No. 647,408. First Texas Chemical Mfg. Co., Dallas, Tex. Filed May 21, 1953.

SO-DI-ZOLE

For Suspension of Sulfadiazine and Sulfamethazine Used in the Oral Administration of Sulfa Therapy.
Claims use since June 1, 1945.

CLASS 19

VEHICLES

Ser. No. 627,285. Swissair Transport Co., Ltd., New York, N. Y. Filed Mar. 29, 1952.

Slumberette

For Adjustable Reclining Chairs for Use on Transportation Equipment, Particularly Aeroplanes.
Claims use since Oct. 12, 1951.

Ser. No. 649,178. Payne Trailer Company, Gardena, Calif. Filed June 22, 1953.

Flamingo

For Trailers of the House Variety.
Claims use since on or about Apr. 9, 1953.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 607,869. "Rol-Gard," Inc., doing business as Rol-Gard Corp., Fargo, N. Dak. Filed Dec. 19, 1950.

ROL-GARD

No claim is made to the word "Gard" apart from the mark as shown in the drawing.
For Automatic Mercury-Operated Power Cut-Off Adapted for Attachment to Tractor Ignition Systems.
Claims use since June 1, 1949.

Ser. No. 622,099. Avion Instrument Corporation, Paramus, N. J. Filed Dec. 5, 1951.

AVION

The word "Avion" is disclaimed apart from the mark as shown. The drawing is lined for red.

For Power Amplifiers, Electrical Gyroscopes, Servomotors, Magnetic Brakes, Voltage Dividing Potentiometers.

Claims use since October 1946.

Ser. No. 622,937. Home Accessories Manufacturing Company, Jacksonville, Ill. Filed Dec. 28, 1951.

SaunaEtte

For Portable Electrically Heated Steam Baths for Use by Human Beings in Bathing.

Claims use since Nov. 16, 1951.

Ser. No. 623,531. The B & L Tool and Machine Co., Plainville, Conn. Filed Jan. 14, 1952.

"MR. BLISTER"

The word "Blister" is disclaimed apart from the mark as shown on the drawing.

For Electrically Heated Paint, Putty, and Wallpaper Removers.

Claims use since Nov. 30, 1951.

Ser. No. 626,312. Consolidated Vultee Aircraft Corporation, San Diego, Calif. Filed Mar. 12, 1952.

CHARACTRON

The representation of the goods is disclaimed apart from the mark as shown.

For Cathode-Ray Tubes.

Claims use since December 1950.

Ser. No. 632,899. Pneumafil Corporation, Charlotte, N. C. Filed July 22, 1952.

PNEUMASTOP

For Automatic Electrical Controls for Indicating Broken Ends and for Stopping Textile Machinery Upon the Occurrence of Broken Ends.

Claims use since Nov. 29, 1951.

Ser. No. 637,764. Electric & Musical Industries Limited, Hayes, England. Filed Nov. 7, 1952.

Emicorda

Applicant claims ownership of British Registration No. 694,532, dated Dec. 9, 1950.

For Apparatus for the Recording on Magnetic Tape and the Reproduction Therefrom of Sound.

Ser. No. 638,260. The Hoover Company, North Canton, Ohio. Filed Nov. 18, 1952.

HOOVER

Applicant claims ownership of Registration No. 506,590.

For Electric Motors.

Claims use since September 1946.

Ser. No. 643,195. Teal Corporation, Irvington, N. J. Filed Mar. 5, 1953.

TEAL

For Electrical Fixtures and Fittings—Namely, Splice Boxes, Cable Connectors, Explosion Boxes, and Switches.

Claims use since on or about Feb. 4, 1953.

Ser. No. 644,202. James A. Viola, doing business as Rapid Electric Company, New York, N. Y. Filed Mar. 25, 1953.

RAPID ELECTRIC CO.

The words "Electric Co." are disclaimed apart from the mark as shown in the drawing.

For Direct Current Electrical Apparatus—Namely, Selenium Rectifier Power Supplies, Controls, and Regulators.

Claims use since Oct. 1, 1945.

Ser. No. 645,247. The A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Filed Apr. 14, 1953.

Holiday

For Electric Oven Cooking Units.

Claims use since Mar. 12, 1953.

Ser. No. 645,558. Eutectic Welding Alloys Corporation, Flushing, N. Y. Filed Apr. 20, 1953.

THERMOTRODE

The word "Thermo" is disclaimed apart from the mark as shown.

For Covered Metal Electrode for Use as a Heating Tool in the Thermic Treatment of Metals.

Claims use since Mar. 3, 1953.

Ser. No. 645,560. Federal Malleable Company, Milwaukee, Wis. Filed Apr. 20, 1953.

Tel Aire

For Electric Space Heaters.

Claims use since Apr. 16, 1953.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 606,852. Comet Model Hobbycraft, Inc., Chicago, Ill. Filed Nov. 24, 1950.

STRUCT-O-SPEED

For Model Airplane Kits and Parts Thereof for Assembly Into Model Airplanes for Use as a Hobby.

Claims use since Mar. 18, 1949.

Ser. No. 631,048. Chicago Roller Skate Company, Chicago, Ill. Filed June 11, 1952.

PRECISIONETTE

For Roller Skates.

Claims use since Mar. 19, 1952.

Ser. No. 633,978. Ralph E. Grossman, doing business as Picture Craft Company, Decatur, Ill. Original filed, act of 1946, Supplemental Register, Aug. 15, 1952; amended to application, Principal Register, Sept. 10, 1953.

Craft Master

The word "Craft" is disclaimed apart from the mark except as shown in the drawing.

For Toy Painting Kits, Said Kits Comprising Canvases, Brushes, Palettes, and Tubes of Paints in Various Colors.

Claims use since July 2, 1951.

Ser. No. 651,381. Charles Arliss, doing business as Premier Plastics Co., Brooklyn, N. Y. Filed Aug. 5, 1953.

CAPTAIN Haaaff

For Doll.

Claims use since January 1953.

Ser. No. 651,653. Charles Garcia & Co., Inc., New York, N. Y. Filed Aug. 11, 1953.

SPINETTE

For Spinning Reel.

Claims use since Mar. 15, 1953.

Ser. No. 651,696. The Enterprise Manufacturing Company, Akron, Ohio. Filed Aug. 12, 1953.

OCEANIC

Applicant claims ownership of Registration No. 182,364.

For Fishing Reels.

Claims use since July 23, 1953.

Ser. No. 651,697. The Enterprise Manufacturing Company, Akron, Ohio. Filed Aug. 12, 1953.

SEA KING

Applicant claims ownership of Registration No. 210,875.

For Fishing Reels.

Claims use since July 23, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 504,034. Cloth Laying Appliances Corp., Woodside, N. Y. Original filed, act of 1905, June 17, 1946; amended to application under act of 1946, Principal Register, Feb. 10, 1948.

CRA

For Laying and Spreading Machines, Pin Bar Tools Used in Holding Material on a Cutting Table, and Tools Consisting of Metal Slabs Used in Holding Down Material and Keeping Layers of Material in Place, and Marking Apparatus for Making Multiple Copies of Patterns for Clothing Manufacture.

Claims use since 1913.

Ser. No. 603,142. Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed Sept. 5, 1950. (Sec. 2f.)

LOW-HEAD

For Power Operated Industrial Sifters and Power Operated Vibrating Screens.
Claims use since Mar. 14, 1936.

Ser. No. 606,023. Malton Tool Corporation, New York, N. Y. Filed Nov. 7, 1950.



The mark is lined for shading.
For Ratcheting Box Wrenches, Screw Drivers, Pipe Wrenches, Adjustable Wrenches, Drills, Chisels, Punches, Files, Tappet Wrenches, Hammers, Reamers, Socket Wrenches and Parts, Box Wrenches, Flare Nut Wrenches, Angle Wrenches, Taps, Dies, and Screwplates, Hacksaw Blades, Hole Saws, Ring Compressors, Valve Lifters, Snips, Hacksaw Frames, File Handles, Valve and Valve Seat Grinders, Flaring Tools and Cutters, Grinders, Carbon Scrapers, Letter and Number Punch Sets, C Clamps, Gasket Cutters, Soldering Irons, Sanders, Buffers, Vises; Also Mechanic's Hand Tools for Automobiles—Namely, Wheel Aligners, Screw Starters, Special Wrenches, Body and Fender Dolly Hammers, Pullers, Torque Wrenches, Stud Pullers, Valve Compressors and Lifters, Threading Taps, Dies, and Files, Clutch Aligning Tools, Tire Irons, Hammers and Bead Breakers, Bushing Drivers, Battery Pliers, Battery Lifters, and Battery Carriers, Chassis Wrenches, Ignition Wrenches, Pliers and Screw Drivers, and Screw and Bolt Extractors.
Claims use since Aug. 1, 1949.

Ser. No. 608,580. The Wella Corporation, New York, N. Y. Filed Jan. 9, 1951.

WELLA

For Scissors for Cutting Hair; Scissors for Thinning Hair; Razors; and Shears for Barbers, Dress-Makers, and Household Purposes.
Claims use since June 7, 1950.

Ser. No. 612,353. Remington Arms Company, Inc., Bridgeport, Conn. Filed Apr. 6, 1951. (Sec. 2f.)

Remington

Applicant claims ownership of Registrations Nos. 60,248, 90,304, and others.
For Tools—Particularly Tools Arranged To Drive or Propel a Penetrating or Other Element by the Combustion of a Propellent Charge, Driving and Driven Elements for Use in and Parts of and Accessories for Such Tools.
Claims use since on or about Mar. 28, 1951.

Ser. No. 612,593. The W. E. Dunn Manufacturing Company, Holland, Mich. Original filed, act of 1946, Supplemental Register, Apr. 13, 1951; amended to application, Principal Register, Apr. 17, 1952.

CAVITEX

Applicant claims ownership of Registration No. 231,318.
For Machine for the Manufacture of Concrete Brick, Tile, and Slabs.
Claims use since Nov. 1, 1949.

Ser. No. 613,156. Gonzalo Boza F., New York, N. Y. Filed Apr. 26, 1951.



For Agricultural Machetes and Knives.
Claims use since May 30, 1923.

Ser. No. 614,557. Ernest F. Koerber, doing business as Steel Products Fabricators, Chicago, Ill. Filed May 31, 1951.

ERKO

For Machines—Namely, Continuous-Belt Conveyors; Spray-Type Cabinet Washers Suitable for Bakeries, Hospitals, Packing Houses, and the Like for Washing Racks, Rack-Trucks, Bowls, Etc.; and Spray-Type Greasing Machines for Greasing Bakery Bread and Cake Pans.
Claims use since Apr. 7, 1950.

Ser. No. 624,059. Benjamin Silberman, doing business under the name of Alexandria Shoe Machinery Co., Philadelphia, Pa. Filed Jan. 24, 1952.

ASMC

For Machine Needles and Awls.
Claims use since 1942.

Ser. No. 626,960. F. P. Rosback Company, Benton Harbor, Mich. Filed Mar. 24, 1952. (Sec. 2f.)

Rosback

For Printers' and Bookbinders' Machinery—Namely, Punching Machines, Perforators, Stitching Machine, Gang Stitchers, Creasing and Crimping Machines, Cutting Machines, and Stacking and Packing Machines.
Claims use since in the year 1881.

Ser. No. 629,405. The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Filed May 8, 1952.

AIRBRASIVE

For Abrading Unit for Use in Industry, Which Consists of a Cabinet in Which Is Housed Mechanism for Controlling and Dispensing Abrasive Laden Gas to Implements Mounted on Said Cabinet for Directing and Controlling Said Abrasive Laden Gas by Specially Designed Devices for Uses in the Industrial Arts Including Cutting, Polishing, Removal of Surface Coatings, Etching Operations, Drilling Holes in Thin Sections, Light Deburring Operations, on Products of Metal, Metalized Films, Glass, Ceramics, Cutting of Extremely Hard and/or Brittle Materials, Jewelry, and Electronics.
Claims use since Jan. 4, 1952.

Ser. No. 630,281. Moore Business Forms, Inc., Niagara Falls, N. Y. Filed May 26, 1952. (Sec. 2f.)

FORMALINER

Applicant claims ownership of Registration No. 373,412.
For Machines for Feeding Paper in Relation to Recording Machines, Such as, Tabulating Machines, Billing Machines, and Typewriting Machines, and Parts of Said Feeding Machines—Namely, Guides, Slitters, Brackets, Drives, and Form Holders; Autographic Registers.
Claims use since Aug. 5, 1936.

Ser. No. 631,528. Athey Products Corporation, Chicago, Ill. Filed June 21, 1952. (Sec. 2f.)

ATHEY

Applicant claims ownership of Registrations Nos. 240,535 and 438,362.
For Loaders—Namely, Self-Propelled and Tow-Type Loading Machines Which With Mechanical Conveyors Pick Up Windrows and Other Accumulations of Material To Be Deposited in Accompanying Vehicles or To Form Windrows, Tractor-Supported Loading Machines Provided With Boom-Carried Buckets, and Self-Propelled Track Cleaners; Grading and Material Handling and Loading Attachments for Tractors; Portable Crushing Units for the Reduction of Concrete, Rock, and Similar Substances; Ballast Cleaning Mechanisms for Attachment to Tractors; and Track-Laying or Crawler Wheel Units.
Claims use since Jan. 26, 1940.

Ser. No. 631,594. Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed June 23, 1952.

AERO-VIBE

For Power Operated Vibrating Screens.
Claims use since on or about Aug. 3, 1933.

Ser. No. 638,389. American Tractor Corporation, Churubusco, Ind. Filed Nov. 21, 1952.

TERRA-LIFT

No claim is made to the word "Lift" apart from the mark as shown. Applicant claims ownership of Registration No. 539,691.
For Power Operated Lift Trucks.
Claims use since June 2, 1952.

Ser. No. 638,933. Robert H. Braun Company, Los Angeles, Calif. Filed Nov. 12, 1952. (Sec. 2f.)



Applicant disclaims the words "Handling" and "Methods" apart from the mark as shown.
For Materials Handling Machines—Namely, Fork Trucks, Tractors, Conveyors, Hoists, and Mobile Yard Cranes.
Claims use since Mar. 28, 1946.

Ser. No. 639,418. C. Drew & Company, Inc., Kingston, Mass. Filed Dec. 13, 1952.

CAT'S PAW

For Hand Tools for Pulling Nails and Spikes.
Claims use since August 1949.

Ser. No. 639,833. A. E. Poulsen & Company, Los Angeles, Calif. Filed Dec. 20, 1952.

R.T.R.

For Compounding Plants for Mixing, Grinding, and Blending Materials in Semi-Fluid State.
Claims use since Nov. 14, 1951.

Ser. No. 643,862. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Filed Mar. 18, 1953.

Chevron-matic

Applicant claims ownership of Registrations Nos. 521,271 and 440,691
For Embossing and Printing Machines.
Claims use since Feb. 16, 1953.

Ser. No. 646,310. The Peerless Machinery Company, Boston, Mass. Filed May 1, 1953.



Applicant claims ownership of Registration No. 84,673.
For Eyelet Setting Machines for Use in Setting Eyelets in Boots, Shoes, Tents, Mattresses, Sporting Goods, and Electrical Goods.
Claims use since Dec. 1, 1907.

Ser. No. 646,327. Signode Steel Strapping Company, Chicago, Ill. Filed May 1, 1953.



Applicant claims ownership of Registrations Nos. 116,691, 116,692, and others.

For Stretching or Tensioning Tools, Sealing Tools, Combination Tensioning and Sealing Tools Also Known as Strapping Machines, Reels, Holders, and Coil Boxes for Package, Bundle, and Load Binding Strapping; Cutters for Strapping; Automatic and Semi-Automatic Machines for Binding Packages, Bundles, and the Like With Strapping; and Stapling Tools.

Claims use since Jan. 4, 1952.

Ser. No. 646,857. Jack Feder, Forest Hills, N. Y. Filed May 12, 1953.

HARTEX

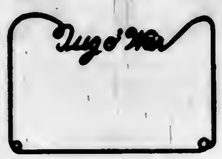
For Sewing Machine and Sewing Machine Parts.

Claims use since 1947.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 644,519. John Ritzenthaler, New York, N. Y. Filed Mar. 31, 1953.



For Ironing Board Covers.

Claims use since January 1942.

Ser. No. 647,755. Borg-Warner Corporation, Chicago, Ill. Filed May 27, 1953.

Time-Line

Applicant claims ownership of Registration No. 558,094.

For Machines for Drying Textiles and Similar Fabrics and Parts Thereof for Replacement and Repair.

Claims use since Apr. 15, 1953.

Ser. No. 649,136. Eberhardt Manufacturing Co., St. Louis, Mo. Filed June 22, 1953. (Sec. 2f.)

Snap-Lock

Applicant claims ownership of Registration No. 500,458.

For Trousers Creasers.

Claims use since September 1945.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 589,346. P. A. Sturtevant Co., Addison, Ill. Filed Dec. 14, 1949. (Sec. 2f.)

P.A. STURTEVANT CO

For Valve and Clutch Spring Testers, Torque Testers, and Torque Measuring Gauges.

Claims use since as early as April 1940.

Ser. No. 594,412. Traveler's Equipment Company, Washington, D. C. Filed Mar. 22, 1950.

LINEOSITE

For Drawing Instrument Comprising a Framed Transparency and Spaced Sight Opening With Which an Object Set Up Behind the Transparency and Viewed Through the Opening May Be Drawn on the Transparency.

Claims use since Dec. 5, 1949.

Ser. No. 618,579. Francis Walter Guibert, doing business as Automatic Liquid Meter Co., Los Angeles, Calif. Filed Sept. 10, 1951.

REPEAT-O-MATIC

For Meters for Measuring the Flow of Liquids and Utilizing Rotary Vanes.

Claims use since June 28, 1944.

Ser. No. 619,457. Dargue Brothers, Limited, Halifax, England. Filed Oct. 1, 1951.

SIMPLON

Applicant claims ownership of British Registration No. B685,251, dated Jan. 4, 1950.

For Set Squares, Adjustable Set Squares, Protractors, French Curves, Slide Rules, Drafting Machines, Drawing Boards, and T Squares.

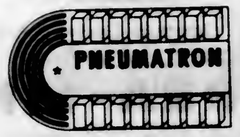
Ser. No. 628,778. Pneumatic Scale Corporation, Limited, Quincy, Mass. Filed Apr. 26, 1952.

PNEUMATRON

For Weighing Machines, Combined Weighing and Filling Machines, and Check-Weighing Machines for Checking the Weights of Filled Containers.

Claims use since Apr. 23, 1952.

Ser. No. 628,779. Pneumatic Scale Corporation, Limited, Quincy, Mass. Filed Apr. 26, 1952.



For Weighing Machines, Combined Weighing and Filling Machines, and Check-Weighing Machines for Checking the Weight of Filled Containers.

Claims use since Apr. 23, 1952.

Ser. No. 630,018. O P W Corporation, Cincinnati, Ohio. Filed May 21, 1952.

VISI-FLO

For Sight Glass Flow Gages or Indicators.

Claims use since sometime in the early part of 1930.

Ser. No. 630,227. Tecnifax Corporation, Holyoke, Mass. Filed May 24, 1952.

TECNIFAX

For Technical Facsimile Materials—Namely, Sensitized Papers and Fabrics for Making Diazotype Prints, Both Positive and Negative.

Claims use since Apr. 15, 1949.

Ser. No. 637,025. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 22, 1952. (Sec. 2f.)

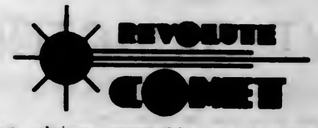
Westinghouse

Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.

For Electric Meters and Measuring Instruments—Namely, Electrostatic Volt-Meters; Electrostatic Ground Detectors; Portable and Switchboard Graphic Ammeters; Voltmeters; Wattmeters; Power-Factor Meters and Frequency-Meters; Switchboard Graphic Totalizing-Wattmeters; Kilo-Volt Ampere Meters and Totalizing Kilo-Volt Ampere Meters; Portable and Switchboard Indicating Ammeters, Voltmeters, Wattmeters, Frequency-Meters, Power-Factor Meters, and Reactive-Factor Meters; Shunts for Direct-Current Meters; Fault-Localizers; Iron-Loss Voltmeters; Maximum-Demand Meters; Kelvin Balances; Potentiometers; Synchroscopes; Integrating Watt-Hour Meters; Indicating Voltmeter-Compensators; Ampere-Hour Meters; Portable Precision-Voltmeter, Ammeters, Wattmeters, and Watt-Hour Meters; Portable Lamp-Testing Meters; Wheatstone Bridges; Watt-Hour Demand Meters; Spring-Testing Instruments; Average Value Voltmeters; Discharge Gaps for Voltage-Measuring; Mean-Square-Value Ammeters; Steam-Flow Meters; Harmonic Analyzers; Oscillographs; Ohmmeters; Polarity-Indicators; Temperature-Indicating Instruments; Apparent-Power Wattmeters; Maximum-Voltage Meters; Polyphase Power-Factor Meters; Differential Galvanometers; Galvanometers; Dynamometers; Recording Dynamometers; Thermocouple Potentiometers; Cycle-Recorders; Speed-Counters; Speedometers; Cyclometers; Tachometers; Precision Resistors for the Measurement of Impedance; Thermocouples; Permeometers; Thermostats; Tape Testing Machines; Mica-Gaging Machines; Pyrometers; Fluid-Flow Indicators; Multipliers for Potentiometers; Conductivity-Bridges; Vacuum Gages; Time Counters; Aircraft Volt and Ammeters; Meter Bases; Wind-Indicating Devices; Calculating Equipments for Power Systems; Vibrometers; Vibrographs; Dynamic Balancing Units and Machines; Accelerometers; Vibration Fatigue Apparatus; High Temperature Fatigue Machines; Shaft Eccentricity Recorders; Spindle Position Recorders; Spindle Vibration Recorders; Vibration Analyzing Apparatus; X-Ray Gages; X-Ray Apparatus for Making Miniature Photofluoroscopic Film; X-Ray Apparatus for Recording Images on Miniature Film; Instruments for Measuring and Recording Voltage Surges; Flaw Detecting Apparatus; Thickness Measuring Apparatus; Strain Gages; Network Analyzers; Analog Computers; Ballistics Computers; Torque Indicating Meters; Photoflood Lamps; Photoflash Lamps; Navigational, Search, and Control Radar Transmitters and Receivers; X-Ray Screens; Gyroscopes for Stabilization and Control Purposes, Such as Torpedo Controls, Stabilized Siding Stations, Tank and Gun Stabilizers, and Automatic Pilots, and Electrical Thermometers.

Claims use since during or about 1888.

Ser. No. 637,667. Paragon-Revolute Corporation, Rochester, N. Y. Filed Nov. 5, 1952.



Applicant claims ownership of Registrations Nos. 505,207 and 505,208.

For Machines for Exposing and Developing White Prints, Brown-Line Prints, and Similar Types of Reproductions.

Claims use since Aug. 10, 1948.

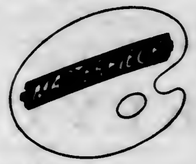
Ser. No. 637,706. Edmund Scientific Corporation, Barrington, N. J. Filed Nov. 6, 1952.

EDSCORP

For Binoculars and Microscopes.

Claims use since Aug. 7, 1952.

Ser. No. 638,028. Wollensak Optical Company, Rochester, N. Y. Filed Nov. 13, 1952.



For Camera Lenses.

Claims use since June 5, 1952.

Ser. No. 642,232. The Lufkin Rule Company, Saginaw, Mich. Filed Feb. 13, 1953. (Sec. 2f.)

CHROME CLAD

Applicant claims ownership of Registration No. 400,035.

For Tape Measures.

Claims use since Apr. 21, 1941.

Ser. No. 646,311. Podbielniak, Inc., Chicago, Ill. Filed May 1, 1953.

SLIMSITE

For Indicators in the Nature of Windowed Pipe Members for Indicating the Flow and Approximate Rate of Flow of Fluids Therethrough.

Claims use since on or about Aug. 12, 1952.

Ser. No. 646,702. Virginia Welding Supply Company, Charleston, W. Va. Filed May 8, 1953.

VAWELD

For Welding Equipment—Namely, Safety Goggles, Goggle Lens, Welders' Helmets, and Arc Shield Lens.
Claims use since in the year 1922.

Ser. No. 646,703. Wallace & Tiernan Company, Inc., Belleville, N. J. Filed May 8, 1953.

WT SILACTOR

For Apparatus for the Measuring and Applying of a Chemical Solution as a Coagulant Aid to Water, Liquids, and Chemical Solutions, Sewage, Trade Wastes, and Other Matter.
Claims use since Apr. 21, 1953.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 636,068. Fabrique D'Horlogerie Sindaco S. A., Muralto, Switzerland. Filed Oct. 2, 1952.

SINDACO

Applicant claims ownership of Swiss Registration No. 136,362, dated Dec. 27, 1950.
For Watches, Alarm Clocks, and Parts Thereof; and Watch and Alarm Clock Cases.

Ser. No. 642,443. Theodore H. Schwob, doing business under the firm name and style Schwob Watch Company, New York, N. Y. Filed Feb. 5, 1953.

JOCKEY CLUB

Applicant claims ownership of Registration No. 284,866.
For Watches, Watch Cases, and Watch Movements.
Claims use since in the year 1893.

Ser. No. 643,966. Lieber & Lerner, New York, N. Y. Filed Mar. 20, 1953.

Melda
SYMPHONY IN DIAMONDS

No claim is made to the words "Symphony in Diamonds" apart from the mark shown on the drawing.
For Watches.
Claims use since Feb. 7, 1951.

Ser. No. 646,908. Karl R. Van Horn, Memphis, Tenn. Filed May 12, 1953.

CARLOS

For Ladies' and Men's Wrist Watches.
Claims use since Jan. 15, 1953.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 573,700. Amston Silver Company, Inc., Amston, Conn. Filed Feb. 11, 1949. (Sec. 2f.)

AMERICAN COLONIAL

For Sterling Silver Flatware.
Claims use since Jan. 21, 1949.

Ser. No. 631,188. Charlotte D. Winter, Paramus, N. J. Filed June 13, 1952.

Thousand Treasures

For Jewelry, Made Wholly or Partly of or Plated With Precious Metal—Namely, Bracelets, Finger Rings, Necklaces, Tie Clips, Cuff Links, Money Clips, Pins, Key Chains, and Earrings.
Claims use since July 26, 1951.

Ser. No. 633,055. Ira Green, Inc., New York, N. Y. Filed July 25, 1952.

SIGNA-PHOTO

The word "Photo" apart from the mark as a whole is disclaimed.
For Gold Plated Insignia With Combined Locket.
Claims use since July 14, 1952.

Ser. No. 635,905. Delta Gamma Fraternity, Columbus, Ohio. Filed Sept. 29, 1952.

ΔΓ

Applicant claims ownership of Registration No. 224,691.
For Fraternity Badges; Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links; Tie Clasps; Charms; Finger Rings; Belt Buckles; and Ornamental Shields, All of Precious Metal.
Claims use since Jan. 1, 1922.

Ser. No. 639,423. Marcel Freudmann, doing business as M. Freudmann Co., New York, N. Y. Filed Dec. 13, 1952.

Dominion
DIAMONDS

The word "Diamonds" is disclaimed apart from the mark as shown.
For Diamond Rings and Diamonds.
Claims use since Nov. 20, 1952.

Ser. No. 644,023. Max Fine & Sons, Inc., New York, N. Y. Filed Mar. 23, 1953.

Mona Lisa

For Finger Rings.
Claims use since Mar. 4, 1953.

Ser. No. 644,901. Dearborn Company, Inc., Providence, R. I. Filed Apr. 8, 1953.

Bellex

No claim is made to the representation of a gem apart from the mark as shown.
For Jewelry, Not Including Watches—Namely, Necklaces, Pendants, Neck Chains, and Earrings.
Claims use since Dec. 3, 1951.

Ser. No. 645,770. A. C. Becken Co., Chicago, Ill. Filed Apr. 23, 1953.

Treasureland

Applicant claims ownership of Registrations Nos. 270,042, 274,664, and others.
For Pearls and Pearl Necklaces.
Claims use since July 31, 1952.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 636,202. Burwood Products Company, Traverse City, Mich. Filed Oct. 6, 1952.

GENUINE BURWOOD

The word "Genuine" is hereby disclaimed apart from the mark.
For Brush Handles and Backs of Brushes of Various Types—Namely, Clothes Brushes, Hair Brushes, and Scrubbing Brushes All Formed of Cold Molded Wood Plastic.
Claims use since Feb. 1, 1925.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 631,189. Charlotte D. Winter, Paramus, N. J. Filed June 13, 1952.

Thousand Treasures

For Crockery, Earthenware of Porcelain Articles—Namely, Vases, Centerpieces for Table Displays, Trays, Dishes, and Flower Planters.
Claims use since July 26, 1951.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 623,927. Valliere Drapery and Slipcover Studio, Rochester, N. Y. Filed Jan. 22, 1952.

Ti-Cardé

For Slipcover Material and Upholstering Material Cut to Size for Slip-Covering or Upholstering of Chairs, Seats in the Nature of Furniture, Cushions, Ottomans, Tables, Kitchen Benches, and Cornice Boards; and for Upholstered Furniture—Namely, Chairs, Tables, Ottomans, Kitchen Benches, Upholstered Cornice Boards, and Upholstered Gliders.
Claims use since May 6, 1951.

Ser. No. 645,284. Arthur P. Bonekemper, doing business as Bonekemper Machine Service, Norristown, Pa. Filed Apr. 15, 1953.

B-K-rack

No claim is made to the words "Rack," "Manufactured," "By," "Bonekemper," "Machine," "Service," "Norristown" or "Penna.," apart from the mark as shown.
For Racks for Storage of Type Magazines.
Claims use since Mar. 7, 1953.

CLASS 33

GLASSWARE

Ser. No. 631,190. Charlotte D. Winter, Paramus, N. J. Filed June 13, 1952.

Thousand Treasures

For Glassware—Namely, Vases, Centerpieces for Table Displays, Trays, Dishes, Flower Planters, Drinking Glasses, Bottles, and Pitchers.
Claims use since July 26, 1951.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 605,296. Calumet and Hecla Consolidated Copper Company, Calumet, Mich. Filed Oct. 23, 1950.

WOLVERINE TUBE

The word "Tube" is disclaimed apart from the trademark as shown. Applicant claims ownership of Registration No. 401,966.
For Condenser Tube, Made of Copper and Aluminum and Integral Finned Tube.
Claims use since Apr. 24, 1944.

Ser. No. 608,723. Turbo-Ray, Inc., New Rochelle, N. Y. Filed Jan. 12, 1951.

TURBO Ray

For Radiant Base Panel Heating Units for Space Heating Systems and Parts Thereof.
Claims use since Sept. 7, 1950.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 623,629. Southeastern Rubber Manufacturing Company, Inc., Athens, Ga. Filed Dec. 10, 1951.

DIXIE-CAP

The drawing is lined to indicate shading.
For Camelback.
Claims use since Aug. 1, 1951.

CLASS 37

PAPER AND STATIONERY

Ser. No. 638,934. Lakeside Central Company, Chicago, Ill. Filed Nov. 17, 1952. (Sec. 2f.)

CLEAN STICK

Applicant claims ownership of Registration No. 358,355.
For Mailing Envelopes.
Claims use since Dec. 12, 1935.

Ser. No. 646,588. Waterman Pen Company, Inc., Seymour, Conn. Filed May 6, 1953.

Flair

For Ball Point Pens.
Claims use since Mar. 31, 1953.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 623,974. Florence Ormand Miller, doing business as Florence Miller, Dallas, Tex. Filed Jan. 23, 1952.

FASHION in FACES

For Newspaper Features.
Claims use since on or about July 1, 1948.

Ser. No. 647,085. New York Herald Tribune Inc., New York, N. Y. Filed May 15, 1953.

And Nothing Can Be Done About It

For Cartoons or Newspaper Feature.
Claims use since June 4, 1931.

Ser. No. 647,086. New York Herald Tribune Inc., New York, N. Y. Filed May 15, 1953.

Bridge

For Cartoons or Newspaper Feature.
Claims use since Mar. 13, 1931.

Ser. No. 647,087. New York Herald Tribune Inc., New York, N. Y. Filed May 15, 1953.

How to Torture Your Husband

For Cartoons or Newspaper Feature.
Claims use since Mar. 5, 1931.

Ser. No. 647,088. New York Herald Tribune Inc., New York, N. Y. Filed May 15, 1953.

How to Torture Your Wife

For Cartoons or Newspaper Feature.
Claims use since Apr. 1, 1931.

Ser. No. 647,089. New York Herald Tribune Inc., New York, N. Y. Filed May 15, 1953.

Life's Darkest Moment

For Cartoons or Newspaper Feature.
Claims use since Mar. 3, 1931.

Ser. No. 647,090. New York Herald Tribune Inc., New York, N. Y. Filed May 15, 1953.

The Thrill That Comes Once in a Lifetime

For Cartoons or Newspaper Feature.
Claims use since Mar. 7, 1931.

Ser. No. 647,091. New York Herald Tribune Inc., New York, N. Y. Filed May 15, 1953.

The Timid Soul

For Cartoons or Newspaper Feature.
Claims use since Mar. 2, 1931.

Ser. No. 647,092. New York Herald Tribune Inc., New York, N. Y. Filed May 15, 1953.

The Unseen Audience

For Cartoons or Newspaper Feature.
Claims use since Jan. 20, 1943.

CLASS 39

CLOTHING

Ser. No. 611,842. The Handcraft Company, Inc., Princeton, Wis. Filed Mar. 27, 1951.

MUK LUKS

For Combined Socks and Slippers for Men, Women, and Children.
Claims use since Feb. 26, 1943.

Ser. No. 622,631. Levi Strauss & Company, San Francisco, Calif. Filed Dec. 17, 1951.

LIGHTER



Applicant claims ownership of Registrations Nos. 250,265, 413,386, and 516,561.
For Men's, Women's, and Children's Jackets and Slacks.
Claims use since Oct. 31, 1951.

Ser. No. 627,708. Sondra Undergarments Co. Inc., New York, N. Y. Filed Apr. 7, 1952.

SONDRA

For Ladies' and Girls' Undergarments and Intimate Wear—Namely, Nightgowns, Panties, Slips, Chemises, Pajamas, Bathrobes, Foot and Stocking Protectors.
Claims use since Jan. 1, 1933.

Ser. No. 638,131. Michael Berkowitz Co., Inc., New York, N. Y. Filed Nov. 15, 1952.

MISS BERKLEIGH

Applicant claims ownership of Registration No. 353,199.
For Women's, Misses', and Children's Pajamas.
Claims use since Mar. 1, 1952.

Ser. No. 638,914. Prentis Clothes Corp., New York, N. Y. Filed Dec. 3, 1952.

JUNIOR RANGERS JR

For Boys' Outerwear—Namely, Coats, Suits, Jackets, Shirts, Slacks, Play Suits, Trousers, Belts, Hats and Caps, Sweaters, and Socks; and Girls' Outerwear—Namely, Coats, Suits, Jackets, Dresses, Blouses, Sweaters, Hosiery, Slacks, Play Suits, Belts, and Hats.
Claims use since July 30, 1951.

Ser. No. 639,206. Hans Jakob Bücking, Alsfeld (Hessen), Germany. Filed Dec. 9, 1952.

LODENETTE

Applicant claims ownership of German Registration No. 615,810, dated Jan. 22, 1952.
For Men's, Women's, and Children's Topcoats and Overcoats; Men's and Women's Suits; Sport Coats, Trousers, and Skirts.

Ser. No. 643,299. Doro Designs Inc., New York, N. Y. Filed Mar. 9, 1953.

folia by DORO

For Scarfs.
Claims use since Feb. 11, 1953.

Ser. No. 643,727. L. N. Schwartz & Sons, Inc., Philadelphia, Pa. Filed Mar. 16, 1953.

Score MASTER

For Leather Shoes, Leather Moccasins, and Athletic Footwear Made of Leather for Men, Women, and Chil-

dren—Namely, Roller and Ice Skating Shoes, and Shoes Worn by Baseball Players, Basketball Players, Bowlers, Boxers, Wrestlers, Football Players, and Runners.
Claims use since Aug. 8, 1952.

Ser. No. 644,300. The Hagerstown Shoe Company, Hagerstown, Md. Filed Mar. 27, 1953.

HAGERLITE

For Men's, Women's, and Children's Shoes Made of Leather, Cloth, Rubber, Plastic, Coated Fabric, and Combinations of These and Other Materials; and Shoe Soles Made of Synthetic Rubber-Like Material.
Claims use since Feb. 1, 1950.

Ser. No. 644,824. L. & D. Beilinson, Inc., New York, N. Y. Filed Apr. 7, 1953. (Sec. 2f.)

BEILINSON

For Women's, Misses', and Juniors' Dresses, Suits, Blouses, and Skirts.
Claims use since Jan. 10, 1920.

Ser. No. 646,210. Fairfield Glove Co., Fairfield, Iowa. Filed Apr. 30, 1953.

GRINDER'S PAL

For Work Gloves Made of Leather and Fabric Combined.
Claims use since on or about Feb. 1, 1953.

Ser. No. 647,753. Blair Corset Co., Inc., Chicago, Ill. Filed May 27, 1953.

Three-D

For Corselettes.
Claims use since May 19, 1953.

Ser. No. 647,814. Seamprufe Incorporated, New York, N. Y. Filed May 27, 1953.

DUAL-VIEW

For Women's Apparel, Comprising Slips, Bloomers, Petticoats, Nightgowns, Pajamas, Chemises, Step-Ins, and Panties.
Claims use since Feb. 10, 1953.

Ser. No. 647,815. Seamprufe Incorporated, New York, N. Y. Filed May 27, 1953.

TRICOOL

For Women's Apparel, Comprising Slips, Bloomers, Petticoats, Nightgowns, Pajamas, Chemises, Step-ins, Panties, and Hosiery.
Claims use since Feb. 10, 1953.

Ser. No. 647,834. David Crystal, Inc., New York, N. Y. Filed May 28, 1953.

CHARLES OF HAYMAKER

For Ladies' and Misses' Dresses, Skirts, Coats, Dress and Jacket Ensembles, Suits, Blouses, Slacks, Coveralls, and Jumpers.
Claims use since April 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 629,866. Helen F. Stefan, doing business as Helen Stefan, St. Paul, Minn. Filed May 17, 1952.

FACE-SAVER

For Hoods for the Head for Protecting Coiffures, Face Make-Up, and Clothes When Dressing.
Claims use since Jan. 16, 1950.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 621,951. Dan River Mills, Incorporated, Danville, Va. Filed Dec. 1, 1951.

DAPPER-DAN

Applicant claims ownership of Registrations Nos. 435,334 and 407,813.
For Textile Fabrics in the Piece of Cotton, Rayon, Acetate, Synthetic Fibers, and Blends Thereof.
Claims use since Oct. 31, 1951.

Ser. No. 623,063. Mountain Home Smart Apparel, Chicago, Ill. Filed Jan. 2, 1952.

Mountain Mist

For Knit Fabrics of Wool and Synthetic Fibers.
Claims use since January 1943.

Ser. No. 633,279. United Elastic Corporation, Easthampton, Mass. Filed July 30, 1952.

PERMOFLEX

Applicant claims ownership of Registrations Nos. 364,015, 389,096, and 390,422.
For Narrow Elastic Webbing.
Claims use since May 26, 1938.

Ser. No. 634,301. Dan River Mills, Incorporated, Danville, Va. Filed Aug. 22, 1952.

LION TWIST

Applicant disclaims the word "Twist" apart from the mark as shown in the drawing.
For Textile Fabrics in the Piece of Cotton, Rayon, Acetate, and Other Synthetic Fibers.
Claims use since July 16, 1952.

Ser. No. 636,398. Harry Zeller-Churgin Corp., New York, N. Y. Filed Oct. 8, 1952.

SMOOTHBLEND

For Fabrics Made of Cotton, Wool, and Synthetic Fibers.
Claims use since Sept. 24, 1952.

Ser. No. 639,649. John Kaye & Son (Huddersfield) Limited, Huddersfield, England. Filed Dec. 17, 1952.

Kayso

Applicant claims ownership of Registration No. 344,315.
For Piece Goods Composed of Wool, Worsted, Cashmere, Mohair, Camelhair, Cotton, Linen, Silk, Rayon, or Nylon, and Mixtures of Two or More of These Materials; and Blankets, Travel Rugs, Perambulator Rugs; Table Cloths, Bedspreads, and Window and/or Shower Curtains.
Claims use since Aug. 28, 1907, in Great Britain; and since Mar. 16, 1937, in commerce between Great Britain and the United States.

Ser. No. 647,781. S. H. Kress and Company, New York, N. Y. Filed May 27, 1953.

Queen Ellen

Applicant claims ownership of Registration No. 306,747.
For Cotton Piece Goods.
Claims use since Sept. 18, 1945, as shown; and since Feb. 1, 1933, in another form.

Ser. No. 647,793. The Millville Manufacturing Company, Philadelphia, Pa. Filed May 27, 1953.

BUCKBOARD

For Piece Goods of Cotton and Synthetic Fibers.
Claims use since Oct. 22, 1952.

Ser. No. 647,794. Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Filed May 27, 1953.

MOHAWK REMBRANDT

Applicant claims ownership of Registration No. 522,227.
For Textile, Woven, Woolen Rugs and Carpets.
Claims use since December 1951.

Ser. No. 647,864. Martin Fabrics Corporation, New York, N. Y. Filed May 28, 1953.

THRIFTIWEB

For Webbing Made of Wool, Silk, Cotton, Rayon, Artificial Fibers, and Mixtures Thereof.
Claims use since Dec. 23, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 643,178. The National Silk Company, Incorporated, South Coventry, Conn. Filed Mar. 5, 1953. (Sec. 2f.)

TIOGA

Applicant claims ownership of Registration No. 300,131.
For Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures.
Claims use since November 1927.

Ser. No. 646,071. Kahn and Feldman, Inc., New York, N. Y. Filed Apr. 28, 1953.

FLEX-CREPE

Applicant disclaims the word "Crepe" apart from the mark as shown in the drawing.
For Yarns.
Claims use since Oct. 24, 1952.

Ser. No. 647,829. The American Thread Company, New York, N. Y. Filed May 28, 1953.



The picture is fanciful. The representation of the thread is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 63,636.
For Thread.
Claims use since May 18, 1892.

Ser. No. 648,277. The American Thread Company, New York, N. Y. Filed June 5, 1953. (Sec. 2f.)

AMERICAN THREAD

For Thread.
Claims use since January 1900.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 620,618. National Welding Equipment Company, San Francisco, Calif. Filed Oct. 29, 1951.

National

For Equipment and Apparatus Used in the Handling and Administering of Medicinal Gases—Namely, Humidifiers for Oxygen and Other Gases, Therapy Gas Regulators, Inspiratory Valves, Breathing Hoods, Inspiratory Units (Comprising a Self-Contained Assembly Including the Gas Tank, Regulator, Gauges, Conduits, and Breathing Hoods); Alcohol Blowpipes and Torches for Dental Plate Work; and Orthodontic Blowpipes; and Parts Therefor.
Claims use since 1922.

Ser. No. 632,746. Helena Rubinstein, Inc., New York, N. Y. Filed July 18, 1952.

HELENA RUBINSTEIN

The name "Helena Rubinstein" is that of the founder and president of the applicant corporation, whose consent is of record.
For Facial Masks Used in Connection With Cosmetic Treatments.
Claims use since 1928.

Ser. No. 636,672. Air-Shields, Inc., Hatboro, Pa. Filed Oct. 16, 1952.

ROCKETTE

For Resuscitators of the Oscillating Bed Type.
Claims use since September 1952.

Ser. No. 640,499. The Columbus Dental Manufacturing Co., Columbus, Ohio. Filed Jan. 8, 1953. (Sec. 2f as to "Steele's.")

Steele's "24"

Applicant claims ownership of Registrations Nos. 98,365, 98,366, and others.
For Prepared Porcelain for Use by the Dental Profession in the Formation of Artificial Teeth and Repair and Restoration of Injured Teeth.
Claims use since August 1952, on the mark as shown; and since 1902, on "Steele's."

Ser. No. 645,024. John L. Yonkers, doing business as Technical Instrument Co., Chicago, Ill. Filed Apr. 9, 1953.

TICO

For Hypodermic Needles.
Claims use since Mar. 30, 1953.

Ser. No. 647,415. Hal-Hen Company, Woodside, N. Y. Filed May 21, 1953.

nuvox

For Hearing Aids.
Claims use since Mar. 10, 1953.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 543,902. Dannen Mills, Inc., St. Joseph, Mo. Filed Dec. 10, 1947. (Sec. 2f.)

DANNEN

For Feeds for Stock, Hogs, and Poultry.
Claims use since Aug. 15, 1939.

Ser. No. 571,448. Angelo Merlino & Sons, Seattle, Wash. Filed Dec. 31, 1948.

ANGELO

Applicant claims ownership of Registration No. 153,936.
For Olive Oil.
Claims use since February 1910.

Ser. No. 605,673. The Nestle Company, Inc., New York, N. Y., and Colorado Springs, Colo. Filed Oct. 31, 1950. (Sec. 2f.)

NESTLÉ'S

For Bouillon Cubes.
Claims use since Sept. 26, 1950.

Ser. No. 621,253. The Borden Company, New York, N. Y. Filed Nov. 15, 1951. (Sec. 2f.)

Borden's

For Frozen Uncooked Chicken; Frozen Vegetables—Namely, Succotash, Cut Corn, Peas, Spinach, Broccoli, Green Beans, Lima Beans, French Fried Potatoes; and Frozen Fruits—Namely, Strawberries.
Claims use since Aug. 29, 1951.

Ser. No. 634,974. Fearn Foods Inc., Franklin Park, Ill. Filed Sept. 8, 1952. (Sec. 2f as to "Fearn's.")

FEARN'S

Applicant claims ownership of Registrations Nos. 513,011, 553,321, and 562,473.
For Curing and Preserving Compounds for Meats and Meat Products and Containing Curing and/or Preserving Chemicals Including But Not Limited to Sodium Chloride, Sodium Nitrate, Sodium Nitrite, Propylene Glycol, and/or Benzoate of Soda (U. S. P.), or Combination of Such Chemicals; Seasoning Compounds in Powder, Liquid, and Paste Form; Gum and Cereal Binders for Food Products; Spices and Spice Extractives for Food Seasoning; and Antioxidants for Edible Fats.
Claims use since Feb. 26, 1952.

Ser. No. 636,227. Dorothy Ferguson, Greeley, Colo. Filed Oct. 6, 1952.

Dottie's

For Frozen Cookie Dough.
Claims use since Mar. 7, 1952.

Ser. No. 636,247. North American Creameries, Inc., Minneapolis, Minn. Filed Oct. 6, 1952. (Sec. 2f.)

NORTH AMERICAN

For Dairy Products—Namely, Fresh Milk, Fresh Cream, Eggs, Butter, and Cottage Cheese; Margarine and Frozen Dessert Products—Namely, Ice Cream, Ice Cream Cake Roll, and Frozen Confections on a Stick.
Claims use since Apr 1, 1901.

Ser. No. 638,798. Paul B. Hoag, doing business as Cream-O-Chocolate Co., Kansas City, Mo. Filed Dec. 1, 1952.

CREAMY WAY

For Malted Milk Powder Comprising Sugar, Dextrose, Cocoa, Malted Milk, and Flavoring Used in the Making of Drinks.
Claims use since January 1939.

Ser. No. 640,404. Made-Rite Potato Chip Co. Inc., Fall River, Mass. Filed Jan. 6, 1953. (Sec. 2f.)

MadeRite

For Potato Chips, Pretzels, Popcorn, Candied, Salted, and Buttered; Cheese-Flavored Corn Twists, and Nuts, Shelled, Salted, and Unsalted.
Claims use since Mar. 1, 1942.

Ser. No. 640,859. C. M. Holtzinger Fruit Co., Inc., Yakima, Wash. Filed Jan. 16, 1953.

Purple Cow

Applicant claims ownership of Registration No. 213,944.
For Fresh Deciduous Fruits.
Claims use since Dec. 18, 1952

Ser. No. 642,949. Comer Produce Company, Phoenix, Ariz. Filed Mar. 2, 1953.

TOP SALE

Applicant claims ownership of Registration No. 350,816.
For Fresh Vegetables and Melons.
Claims use since May 18, 1937.

Ser. No. 644,406. Henry Forschmiedt, doing business as Forschmidt Celery Company, Dallas, Tex. Filed Mar. 30, 1953.

Billie B BRAND

Applicant disclaims the word "Brand."
For Fresh Celery and Fresh Carrots.
Claims use since October 1949.

Ser. No. 645,504. Monsanto Chemical Company, St. Louis, Mo. Filed Apr. 17, 1953.

SANTOQUIN

Applicant claims ownership of Registration No. 501,027.
For Chemical Preservatives for Use in Livestock Feeds—Namely, Carotene Anti-Oxidants.
Claims use since Mar. 25, 1953.

Ser. No. 646,535. Jess & C. A. Cutler, Inc., Columbus, Ga. Filed May 6, 1953.

JESSCA

For Pellets for Feeding Chinchillas.
Claims use since Feb. 27, 1953.

CLASS 47

WINES

Ser. No. 608,771. Tomas Rivero y Hermanos S. L., Cadiz, Spain. Filed Jan. 13, 1951.

J. M. RIVERO CZ

The name "J. M. Rivero" is that of one of applicant's deceased predecessors in business. No claim is made to the exclusive use of the word "Rivero" apart from the mark as shown. No claim is made to the expression "Established 1750" apart from the trade-mark as used.

For Wines.

Claims use since January 1904, in Spain; and since June 10, 1950, in commerce between Spain and the United States.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 622,366. Charles Tanqueray & Co. Limited, London, England. Filed Dec. 11, 1951. (Sec. 2f.)

Tanqueray's

Applicant claims ownership of Registrations Nos. 120,024 and 35,465.

For Gin.

Claims use since Jan. 20, 1934; and since July 5, 1943, in commerce between Great Britain and the United States.

Ser. No. 622,914. Aktieselskabet Danisco, also trading as Danisco, Ltd. and as Aktieselskabet Dansk Handels- Og Industri Compagni (Danisco), Copenhagen, Denmark. Filed Dec. 28, 1951.

DOUBLEDEE

Applicant claims ownership of Danish Registration No. 50–1951, dated Jan. 20, 1951; and United States Registration No. 443,769.

For Alcoholic Punch.

Claims use since Nov. 23, 1950; and since Oct. 29, 1951, in commerce between Denmark and the United States.

Ser. No. 632,394. Schieffelin & Co., New York, N. Y. Filed July 10, 1952.

CLOKE & DAGGER



Applicant claims ownership of Registrations Nos. 311,775, 346,812, and others.

For Rum and Cola Beverage.

Claims use since June 10, 1952.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 609,299. The Hopp Press, Inc., New York, N. Y. Filed Jan. 26, 1951.

Jiffy Pricer

The word "Pricer" is disclaimed except in connection with the rest of the mark as shown.

For Plastic Price Numerals and Plastic Holders Sold in Conjunction Therewith.

Claims use since Jan. 10, 1950.

Ser. No. 632,427. Jaques Manufacturing Company, Chicago, Ill., assignor to The Aridor Company, Chicago, Ill., a corporation of Illinois. Filed July 11, 1952.



Applicant claims ownership of Registration No. 357,563.

For Closure Caps for Cans, Jars, and Bottles.

Claims use since about January 1952.

Ser. No. 645,254. Paramount Garment Company, Chicago, Ill. Filed Apr. 14, 1953.

KORSIDE

For Vinyl or Other Plastic Coated Fabrics Simulating Leather and Adapted To Be Used for Clothing, Upholstery, Draperies, Slip Covers, Automobile Seat Covers, and Leather Substitutes.

Claims use since Jan. 5, 1952.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 610,766. Tampax Incorporated, New York, N. Y. Filed Mar. 2, 1951.

Dellery

Shaded areas of the drawing indicate the color green.

For Deodorant Powder for the Preparation of Cleansing Solutions for Intimate Personal Use.

Claims use since June 12, 1950.

Ser. No. 626,990. Gilbert Beautician Supply Company, Charlotte, N. C. Filed Mar. 25, 1952.

Bob-Gene

The word "Bob" is disclaimed apart from the mark as shown.

For Cream Neutralizer, Waving Solution, Cream Fixative, Cream Oil Lotion, and Cream Rinse.

Claims use since 1946.

Ser. No. 631,212. Les Parfums de Jacques Griffe, Paris, France. Filed June 14, 1952.

MISTIGRI

Applicant claims ownership of French Registration No. 466,244, dated Feb. 6, 1950.

For Perfumes.

Ser. No. 632,798. The Rilling-Dermetics Company, New York, N. Y. Filed July 19, 1952.

Curl-Tone

Applicant disclaims the word "Curl" apart from the combination as shown.

For Cold Wave Solution.

Claims use since Feb. 28, 1952.

Ser. No. 633,974. Felton Beauty Supply Company Inc., Atlanta, Ga. Filed Aug. 15, 1952.

Bob-Gene

No claim is made to the word "Bob" except in the association shown.

For Cosmetics—Namely, a Waving Solution for the Hair.

Claims use since Apr. 10, 1951.

Ser. No. 635,878. Foster-Milburn Company, doing business under the name and style of Westwood Pharmaceuticals, Buffalo, N. Y. Filed Sept. 27, 1952.

PRO-DERMA

For Skin Protective Cream.

Claims use since Sept. 17, 1952.

Ser. No. 643,136. Associated Brands, Inc., Brooklyn, N. Y. Filed Mar. 5, 1953.

KIDMETICS

For Bubble Producing Bath Preparation, Cologne, Bath Powder, Skin Lotion, and Hair Trainer.

Claims use since June 25, 1945.

Ser. No. 644,557. Lentheric, Incorporated, New York, N. Y. Filed Apr. 1, 1953.

HIGH TENSION

For Perfume.

Claims use since Mar. 17, 1953.

Ser. No. 644,558. Lentheric, Incorporated, New York, N. Y. Filed Apr. 1, 1953.

GALAXY

For Perfume.

Claims use since Mar. 17, 1953.

Ser. No. 644,891. Bourjois, Inc., New York, N. Y. Filed Apr. 8, 1953.

Ga-Ga

For Perfume, Cologne, and Dusting Powder.

Claims use since Mar. 12, 1953.

Ser. No. 644,951. Elizabeth Arden Sales Corporation, New York, N. Y. Filed Apr. 9, 1953.

mille fleurs

Applicant claims ownership of Registrations Nos. 251,256, 391,307, and others.

For Hairdressing.

Claims use since Oct. 1, 1925.

Ser. No. 645,918. Helena Rubinstein, Inc., New York, N. Y. Filed Apr. 24, 1953.

Fourth Dimension

For Perfume.

Claims use since Apr. 15, 1953.

Ser. No. 646,984. Botany Mills, Inc., Passaic, N. J. Filed May 14, 1953.

BOTANAIRE

Applicant claims ownership of Registrations Nos. 339,982, 376,810, and others.

For Shaving Cream.

Claims use since May 1, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 548,469. Armour & Company, Chicago, Ill. Filed Jan. 31, 1948. (Sec. 2f as to "Armours.")

ARMOURS NO. 411

For Synthetic Detergent for General Industrial Use.
Claims use since Nov. 1, 1946, as to the mark shown; and since in the year 1896 as to the mark "Armours."

Ser. No. 614,723. Helena Rubinstein, Inc., New York, N. Y. Filed June 4, 1951.

helena rubinstein

The name "Helena Rubinstein" is that of the founder and president of the applicant corporation. Consent of record. Applicant claims ownership of Registration No. 533,839.
For Toilet Soap, Face Soap, Hand Soap, Deodorant Soap, and Toilet Soap in Granulated Form.
Claims use since 1928.

Ser. No. 633,226. Sunnyside Oil Co., Chicago, Ill. Filed July 29, 1952.

Specs

For All Purpose Paint Thinner and Cleaning Solvent.
Claims use since May 15, 1952.

Ser. No. 634,483. Philipp Brothers Chemicals, Inc., New York, N. Y. Filed Aug. 26, 1952.

Phibro

For Industrial Synthetic Soap Compositions, Skin Cleaning Compositions, Including Soap Compounds and Floor Cleansers, Including Solvents, Chlorinated and Aromatic Cleansers.
Claims use since Apr. 1, 1929.

Ser. No. 635,612. Eloise Quinn, New York, N. Y. Filed Sept. 22, 1952.

NYLO-AID

For Stocking Wash in Powder or Liquid Form.
Claims use since Aug. 1, 1952.

Ser. No. 639,413. Better Brushes, Incorporated, Palmer, Mass. Filed Dec. 13, 1952. (Sec. 2f.)

BETTER BRUSHES

Applicant claims ownership of Registration No. 206,542.
For Paste Cleaner for Hands; Paste Cleaner for Woodwork, Porcelain, Marble, Linoleum, Painted Walls and Tile; Toilet Bowl Cleaning Preparation; Liquid Glass Cleaner; Floor Cleaner; Saponaceous Material Having Water Softening and Cleaning Properties; Rug Shampoo; and Hair Shampoo.
Claims use since November 1930.

Ser. No. 641,408. A. L. Wilson Chemical Company, Kearny, N. J. Filed Jan. 27, 1953.

QwikGo

For Protein Digester for Albuminous Stains—Namely, Mustard, Milk, Ice Cream, Blood, Gravy, Discharge, Vomit, Ink, Glue, Coffee, Tea, Chocolate, Salad Dressing, Soft Drinks, Tannin, Etc.
Claims use since Jan. 2, 1953.

Ser. No. 643,953. Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Filed Mar. 20, 1953. (Sec. 2f as to "Griffin.")



No claim is made to the exclusive use of the words "Quick Cleaning Fluid" apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 135,250, 190,017, and others.
For Dry Cleaning Preparation for Fabric and Leather Wearing Apparel, Upholstery, Rugs, and Similar Items.
Claims use since May 26, 1930; and since February 1915 as to "Griffin."

Ser. No. 644,144. Ultra Chemical Works Inc., Paterson, N. J. Filed Mar. 24, 1953.

DIPPO

Applicant claims ownership of Registration No. 417,871.
For Synthetic Detergents.
Claims use since Sept. 30, 1951.

Ser. No. 646,475. Iowa Soap Company, Burlington, Iowa. Filed May 5, 1953. (Sec. 2f.)

PURITY

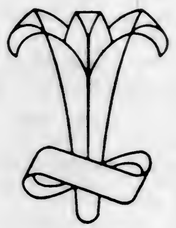
Applicant claims ownership of Registration No. 289,766.
For Soap.
Claims use since Oct. 15, 1930.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 644,248. The National Society for Crippled Children and Adults, Inc., Chicago, Ill. Filed Mar. 26, 1953.



For Providing Consultation Services for Crippled Persons in the Areas of Health, Welfare, Special Education, Recreation, Rehabilitation, and Employment.
Claims use since Sept. 1, 1952.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 637,147. Polly Prim Laundries of America, Inc., New York, N. Y. Filed Oct. 24, 1952. COLLECTIVE MARK.



The name "Polly Prim" is fanciful.
For Commercial Laundry and Dry Cleaning Services.
Claims use since 1940.

Ser. No. 645,084. Underwood Corporation, New York, N. Y. Filed Apr. 10, 1953. (Sec. 2f.)

UNDERWOOD

Applicant claims ownership of Registrations Nos. 131,645, 346,080, and others.
For Rebuilding, Altering, Repair, and Maintenance of Business Machines—Namely, Typewriting Machines, Computing Machines, and Machines Employed in Punch Card Systems.
Claims use since at least as early as 1897.

CLASS 106

MATERIAL TREATMENT

Ser. No. 625,499. Triangle Finishing Corp. Johnstown, N. Y. Filed Feb. 25, 1952.



TRIAPACT

The representation of the hand-press is disclaimed.
For Finishing Fabrics of Others—Namely, Compacting the Same, Increasing the Course and Wale Count, Increasing the Thickness, and Enhancing the Drape and Hand.
Claims use since Aug. 29, 1951.

Ser. No. 648,364. Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Filed June 8, 1953.

BRADNYLA

Applicant claims ownership of Registrations Nos. 188,786, 191,136, and others.
For Services Rendered Manufacturers of All Kinds of Fabrics Containing Nylon in Admixture With Other Fibers Both Natural and Synthetic—Namely, Bleaching, Dyeing, and Heat-Setting.
Claims use since Nov. 12, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

582,145. Braces. Hickok Manufacturing Co. Inc., Rochester, N. Y.
Filed Feb. 10, 1948, Serial No. 549,251. Published July 14, 1953. Class 39.

582,146 Wheat Flour. The Colorado Milling & Elevator Co., doing business under the style names of The Hungarian Flour Mills and The Denver Flour Mills Co., Denver, Colo., and elsewhere.
Filed Mar. 17, 1948, Serial No. 552,123. Published Aug. 4, 1953. Class 46.

582,147. Bond and Ledger Paper. Fox River Paper Corporation, Appleton, Wis.
Filed Sept. 24, 1948, Serial No. 565,766. Published Nov. 13, 1951. Class 37.

582,148. Inside and Outside Ready Mixed House Paint and Varnish, Polish and Wax Used on Furniture, Floors, and Automobiles. Butler Brothers, Chicago, Ill.
Filed Oct. 23, 1948, Serial No. 567,493. Published July 28, 1953. Class 4.

582,149. Potato Chips. Bernhardt Stahmer, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr.
Filed Oct. 29, 1948, Serial No. 567,886. Published Aug. 4, 1953. Class 46.

582,150. Potato Salad, Macaroni Salad, Vegetable Salad, Beet Salad, Rice Pudding, Baked Beans, Pickled Cabbage, Macaroni and Cheese. Lottie Kemberling Dutch Pantry, Monroe Township, Snyder County, Pa.
Filed June 10, 1949, Serial No. 580,247. Published June 30, 1953. Class 46.

582,151. Extruded Plastic Tubings, Used as Electrical Insulation on Wires and Conduits, on Apparatus and Equipment. L. Frank Markel & Sons, Norristown, Pa.
Filed June 28, 1949, Serial No. 581,199. Published July 28, 1953. Class 21.

582,152. Medicinal Preparation in Capsule Form for Use in the Treatment of Arthritis, Rheumatism, and Gout. Calvital Company, Inc., Mount Vernon, N. Y.
Filed Aug. 2, 1949, Serial No. 582,815. Published Dec. 5, 1950. Class 18.

582,153. Men's and Young Men's Suits, Topcoats, Overcoats, Sport Coats, Slacks, and Dress Suits. Timely Clothes, Inc., Rochester, N. Y.
Filed Aug. 13, 1949, Serial No. 583,455. Published Aug. 4, 1953. Class 39.

582,154. Electric Door Controlling Apparatus Consisting of a Floor Mat Contact Device, Transformer and Relays, for Complete Control of a Door Operator. The Stanley Works, New Britain, Conn.
Filed Nov. 15, 1949, Serial No. 587,832. Published Aug. 11, 1953. Class 21.

582,155. Insecticide. The Dow Chemical Company, Midland, Mich.
Filed Jan. 21, 1950, Serial No. 591,226. Published Nov. 7, 1950. Class 6.

582,156. Sweet Capsicum, Fresh Tomatoes, Canned Tomato Puree, Canned Artichokes, Canned Peas, Canned Grapes, Canned Peaches, and Canned Apricot Pulp. Francisco Celestino Trigo Marin, Valencia, Spain.
Filed Feb. 1, 1950, Serial No. 591,828. Published July 14, 1953. Class 46.

582,157. Men's, Women's, Boys', and Girls' Bathing Suits, Bathing Trunks, Shirts, Sweaters, and Knitted Wristlets. Forrest Knitting Mills, also trading as Highland Knitting Mills, Philadelphia, Pa.
Filed Feb. 16, 1950, Serial No. 592,561. Published July 21, 1953. Class 39.

582,158. Fibrous Molded Caps. Hawley Products Company, St. Charles, Ill.
Filed Mar. 3, 1950, Serial No. 593,349. Published Aug. 4, 1953. Class 39.

582,159. Video Receivers, Radio Receiving Apparatus, Electric Phonograph Apparatus, Etc. Jackson Industries, Inc., Chicago, Ill.
Filed Mar. 29, 1950, Serial No. 594,841. Published July 21, 1953. Class 21.

582,160. Potato Chips. Bernhardt Stahmer, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr.
Filed May 3, 1950, Serial No. 596,813. Published July 28, 1953. Class 46.

582,161. Potato Chips. Bernhardt Stahmer, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr.
Filed May 4, 1950, Serial No. 596,877. Published July 28, 1953. Class 46.

582,162. Antennas for Mobile and Fixed Transmitting and Receiving Stations, Etc. The Workshop Associates, Incorporated, Needham Heights, Mass., now by change of name The G. G. G. Corporation, assignor to The Gabriel Company, Cleveland, Ohio, a corporation of Ohio.
Filed May 10, 1950, Serial No. 597,246. Published Aug. 4, 1953. Class 21.

582,163. Electrically Driven Egg Cleaners—Namely, the Sander or Brush Type, the Manually Tended Type, and the Feed-Through Type; and Egg Candling Lights. National Poultry Equipment Company, Seattle, Wash.
Filed June 19, 1950, Serial No. 599,384. Published July 28, 1953. Class 21.

582,164. Periodical. Army and Navy Journal, Inc., Washington, D. C.
Filed June 21, 1950, Serial No. 599,481. Published Aug. 4, 1953. Class 38.

582,165. Apparatus To Teach Speech to Deaf and Hard of Hearing Students, Etc. Herman R. Goldberg, Rochester, N. Y.
Filed July 14, 1950, Serial No. 600,662. Published Mar. 24, 1953. Class 21.

582,166. Electrical Apparatus and Switch Gear, Etc. Railway & Industrial Engineering Co., Greensburg, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania.
Filed July 19, 1950, Serial No. 600,915. Published July 14, 1953. Class 21.

582,167. Electrical Plugs. Essex Wire Corporation, Detroit, Mich.
Filed July 25, 1950, Serial No. 601,204. Published July 14, 1953. Class 21.

582,168. Catalyst Heater for Use With Laboratory Research Apparatus. Burrell Corporation, Pittsburgh, Pa.
Filed Sept. 13, 1950, Serial No. 603,473. Published Aug. 11, 1953. Class 26.

582,169. Coffee Vending Machine. The Bert Mills Corporation, Lombard, Ill.
Filed Oct. 21, 1950, Serial No. 605,250. Published July 7, 1953. Class 23.

582,170. Electric Time Switch Units Adapted To Be Connected With and Operate Valves in Irrigation Pipes. David W. Hendry, doing business under the fictitious name and style of Absentee Automatic Water Control Company, Stockton, Calif.
Filed Oct. 23, 1950, Serial No. 605,306. Published Aug. 4, 1953. Class 26.

582,171. Paint Rollers and Paint Roller Covers. E-Z Paintr Corporation, Butler, Wis., assignor to E Z Paintr Corporation, Milwaukee, Wis., a corporation of Delaware.
Filed Dec. 9, 1950, Serial No. 607,492. Published Aug. 4, 1953. Class 29.

582,172. Condenser Power Units, and Electric Welding Apparatus. Federal Tool Engineering, Inc., Newark, N. J.
Filed Dec. 11, 1950, Serial No. 607,543. Published Aug. 4, 1953. Class 21.

582,173. Electric Sleeping Pads. Ettinger Manufacturing Company, Chicago, Ill.
Filed Jan. 3, 1951, Serial No. 608,304. Published Oct. 9, 1951. Class 21.

582,174. Men's Fur Felt Hats. MacLachlan Hats, Incorporated, Norwalk, Conn.
Filed Jan. 5, 1951, Serial No. 608,425. Published Aug. 11, 1953. Class 39.

582,175. Publications Issued From Time to Time Devoted to Radio Transmitting and Receiving Apparatus and Television Transmitting and Receiving Apparatus. Radio-Television Manufacturers Association, Washington, D. C.
Filed Feb. 16, 1951, Serial No. 610,187. Published Aug. 4, 1953. Class 38.

582,176. Materials Used in Lithographic Printing—Namely, Inks, Stamp Pads, Typewriter Ribbons, and Carbon Paper. A. B. Dick Company, Niles, Ill.
Filed Feb. 23, 1951, Serial No. 610,422. Published July 28, 1953. Class 11.

582,177. Fresh Citrus Fruit and Watermelons. Zellwood Fruit Distributors, Inc., Zellwood, Fla.
Filed Feb. 26, 1951, Serial No. 610,535. Published July 14, 1953. Class 46.

582,178. Radio Receivers; Radio Receiver Accessories, Etc. James Millen Manufacturing Company, Inc., Malden, Mass.
Filed Mar. 8, 1951, Serial No. 611,034. Published Aug. 11, 1953. Class 21.

582,179. Electric Controls—Namely, Electric Motion Regulators, Electric Starters, Electric Speed Regulators, and Electric Brakes for Cranes. The Vaughan Crane Company Limited, West Gorton, Manchester, England.
Filed Mar. 21, 1951, Serial No. 611,624. Published July 14, 1953. Class 21.

582,180. Prism Binoculars: Opera, Field, and Marine Glasses, and Reading Glasses. J. L. J. Valette et Cie., Paris, France.
Filed Apr. 23, 1951, Serial No. 613,007. Published Aug. 11, 1953. Class 26.

582,181. Machines for Duplicating Written, Printed, Graphic or Pictorial Subject Matter Under Control of Electric Signals; Etc. Times Facsimile Corporation, New York, N. Y.
Filed May 22, 1951, Serial No. 614,224. Published Aug. 11, 1953. Class 21.

582,182. Bathroom Scales. Affiliated Retailers, Inc., New York, N. Y.
Filed June 4, 1951, Serial No. 614,680. Published Aug. 11, 1953. Class 26.

582,183. Hydraulic Pumps, Motors, and Rams and Parts Thereof, Hydraulic Power Transmission Systems and Parts Thereof. Keelavite Rotary Pumps & Motors Limited, Allesley, Coventry, England.
Filed July 9, 1951, Serial No. 616,233. Published June 30, 1953. Class 23.

582,184. Distribution Transformers. Pennsylvania Transformer Company, Canonsburg, Pa., assignor to McGraw Electric Company, a corporation of Delaware.
Filed July 13, 1951, Serial No. 616,445. Published Aug. 11, 1953. Class 21.

582,185. Portable Radio Speakers for Use Under Pillow and Cushions for Individual Reception. Pillow-Pal Radios, Inc., Malden, Mass.
Filed July 24, 1951, Serial No. 616,867. Published July 21, 1953. Class 21.

582,186. Electric Lighting Assemblies Including Sections of Rubber-Covered Electric Cable Having Connectors and Lamp Sockets Associated Therewith. Joy Manufacturing Company, Pittsburgh, Pa.
Filed Aug. 2, 1951, Serial No. 617,253. Published Aug. 11, 1953. Class 21.

582,187. Coffee, Tea, Fresh Eggs, Dried and Canned Beans, Etc. Piggly Wiggly Corporation, Jacksonville, Fla.
Filed Aug. 23, 1951, Serial No. 618,006. Published Aug. 11, 1953. Class 46.

582,188. Strips of Sponge Rubber Adapted To Be Attached to the Backs of Wall-Mounted Picture Frames To Prevent Their Displacement. Studio Guild Products Company, Chicago, Ill.
Filed Sept. 7, 1951, Serial No. 618,517. Published July 28, 1953. Class 50.

582,189. Men's and Boys' Pajamas. Pioneer Suspender Company, Darby, Pa.
Filed Sept. 12, 1951, Serial No. 618,713. Published Apr. 22, 1952. Class 39.

582,190. Magnets, Permanent Magnets, and Magnetic Traps for Food Processing Lines and the Like, Magnetic Ducts, Magnetic Pulleys, Magnetic Light Can Eliminators, Magnetic Sweepers, Magnetic Plates. Donald E. Stem, doing business under the name of Columbia Engineering Service Co., San Francisco, Calif.
Filed Sept. 27, 1951, Serial No. 619,315. Published July 28, 1953. Class 21.

582,191. Microscopes, Telescopes, Chronographs, Etc. Henry Wild Surveying Instruments Supply Company of America, Inc., Brooklyn, N. Y.
Filed Oct. 30, 1951, Serial No. 620,705. Published July 28, 1953. Class 26.

582,192. Electrical Condensers or Capacitors. Industrial Condenser Corporation, Chicago, Ill.
Filed Nov. 9, 1951, Serial No. 621,065. Published Aug. 11, 1953. Class 21.

582,193. Awnings, Banners, Flags, Pennants, Furniture Covers in the Nature of Drop Cloths Used by Painters and Decorators To Protect Furniture, Furniture Pads, Tarpaulins, and Tents. The Dickey Manufacturing Co., Toledo, Ohio.
Filed Nov. 23, 1951, Serial No. 621,547. Published July 14, 1953. Class 50.

582,194. Awnings, Banners, Flags, Pennants, Furniture Covers, Etc. The Dickey Manufacturing Co., Toledo, Ohio.
Filed Nov. 23, 1951, Serial No. 621,548. Published July 21, 1953. Class 50.

582,195. Men's, Ladies', and Children's Hats. Texas Harvest Hat Company, Laredo, Tex.
Filed Dec. 6, 1951, Serial No. 622,182. Published Aug. 4, 1953. Class 39.

582,196. Electrical Apparatus for Generating Negative Ions in the Air for Alleviation of Respiratory Ailments, and Including One or More Generating Units and a Case, Etc. Ionics, Inc., San Francisco, Calif.
Filed Dec. 7, 1951, Serial No. 622,213. Published Aug. 11, 1953. Class 21.

582,197. Electrical Apparatus for Generating Negative Ions in the Air for Alleviation of Respiratory Ailments, Etc. Ionics, Inc., San Francisco, Calif.
Filed Dec. 7, 1951, Serial No. 622,214. Published Aug. 11, 1953. Class 21.

582,198. Electrical Sectional Switchboards and the Sections Therefor. General Electric Company, Schenectady, N. Y.
Filed Dec. 11, 1951, Serial No. 622,331. Published Aug. 11, 1953. Class 21.

582,199. Baby Livestock Feed, Such as Baby Colts, Baby Pigs, and Baby Cows. Uncle Johnny Mills, Houston, Tex.
Filed Jan. 4, 1952, Serial No. 623,217. Published July 1, 1952. Class 46.

582,200. Measuring Microscopes, Comparison Microscopes, Etc. Ernst Leitz, G. m. b. H., Wetzlar, Germany.
Filed Oct. 20, 1951, Serial No. 623,574. Published Aug. 4, 1953. Class 26.

582,201. Television Antennae. Ferro Electric Products Inc., Kirkland, Ill., assignor, by mesne assignments, to Skysweeper, Inc., Johnsburg, Ill., a corporation of Illinois.
Filed Jan. 15, 1952, Serial No. 623,597. Published July 14, 1953. Class 21.

582,202. Cordage Items—Namely, Binder Twine, Hay Baler Twine, Sausage Twine, Polished Cotton Twine, and Unpolished Cotton Twine. Frank W. Winne & Son, Inc., Philadelphia, Pa.
Filed Jan. 21, 1952, Serial No. 623,863. Published Mar. 3, 1953. Class 7.

582,203. Spectacle Frames. Victory Optical Manufacturing Co., Newark, N. J.
Filed Jan. 25, 1952, Serial No. 624,114. Published Aug. 4, 1953. Class 26.

582,204. Women's and Girls' Hosiery. Diamond Hosiery Corp., High Point, N. C., and New York, N. Y.
Filed Feb. 7, 1952, Serial No. 624,634. Published July 28, 1953. Class 39.

582,205. Electric Control Unit as an Accessory for Attachment to a Steam Pressure Sterilizer of the Type Used in Hospitals for Sterilizing Surgical Goods Such as Surgical Dressings and Surgical Instruments. Air Reduction Company, Incorporated, New York, N. Y.
Filed Feb. 23, 1952, Serial No. 625,385. Published July 14, 1953. Class 21.

582,206. Electrical Circuit Control Elements—Namely, Resistors. Ohmite Manufacturing Company, Chicago, Ill.
Filed Feb. 23, 1952, Serial No. 625,434. Published July 14, 1953. Class 21.

582,207. Collars for Shirts for Men and Boys. The Ward-Stilson Company, Anderson, Ind.
Filed Feb. 25, 1952, Serial No. 625,506. Published July 14, 1953. Class 39.

582,208. Antennas for Television Receivers. The La Pointe-Plascomold Corporation, Windsor Locks, Conn.
Filed Feb. 26, 1952, Serial No. 625,535. Published July 14, 1953. Class 21.

582,209. Probes and Brushes With Ionizing Means for Causing the Dissipation of Static Electric Charges. Nuclear Products Company, Costa Mesa, Calif.
Filed Mar. 3, 1952, Serial No. 625,862. Published July 28, 1953. Class 21.

582,210. Gearing and Transmissions and Parts Thereof. Continental Motors Corporation, Muskegon, Mich.
Filed Mar. 8, 1952, Serial No. 626,152. Published June 9, 1953. Class 23.

582,211. Canned Tuna Fish. California Marine Curing & Packing Co., Terminal Island, Calif.
Filed Mar. 17, 1952, Serial No. 626,558. Published July 14, 1953. Class 46.

582,212. Canned Tuna Fish. The French Sardine Company of California, Terminal Island, Calif.
Filed Mar. 17, 1952, Serial No. 626,565. Published Apr. 21, 1953. Class 46.

582,213. Belts Equipped With Slide-Fasteners and Used as a Connection Attachment for Blouses and Skirts; or Trousers and Shirts; or Skirts and Blouses With the Separable Slide-Fasteners Attached. Fernande Perry, doing business as Sta-Tuk Industries, Eustis, Fla.
Filed Mar. 24, 1952, Serial No. 626,955. Published Aug. 4, 1953. Class 39.

582,214. Beater Blade for a Hammer Mill. Jacobson Machine Works, Minneapolis, Minn.
Filed Mar. 26, 1952, Serial No. 627,067. Published June 9, 1953. Class 23.

582,215. Men's Clothing—Namely, Suits, Coats, Pants, and Overcoats. Freeman Clothing Company, Chicago, Ill.
Filed Apr. 2, 1952, Serial No. 627,430. Published July 14, 1953. Class 39.

582,216. Electrically Operated Vacuum Cleaners for Industrial Use. Ralph H. Persons, doing business as American Vacuum Company, Chicago, Ill.
Filed Apr. 14, 1952, Serial No. 628,050. Published July 14, 1953. Class 21.

582,217. Trowels. Hans G. Zelinka, doing business as Vindobona Importing Co., New York, N. Y.
Filed Apr. 14, 1952, Serial No. 628,076. Published June 9, 1953. Class 23.

582,218. Electrical Insulation—Namely, Asbestos Paper Containing Glass Fibers. Raybestos-Manhattan, Inc., Passaic, N. J.
Filed Apr. 25, 1952, Serial No. 628,713. Published Aug. 11, 1953. Class 21.

582,219. Therapeutic Products for the Treatment of Over-Fatigue, Asthenia, Anemia, Nervous Depression, Mental and Physical Exhaustion. Chemische Werke Albert, Amoneburg, Germany.
Filed Apr. 30, 1952, Serial No. 628,919. Published Aug. 4, 1953. Class 18.

582,220. Booklets, Maps, and Printed Post Cards. John Randolph, Tomball, Tex.
Filed May 5, 1952, Serial No. 629,216. Published Aug. 4, 1953. Class 38.

582,221. Bread. Interstate Bakeries Corporation, Kansas City, Mo., doing business as Schulze Baking Company, Chicago, Ill., and elsewhere; Weber Baking Co., Los Angeles, Calif., and elsewhere; Mrs. Karl's Bakeries, Inc., Milwaukee, Wis.; and O'Rourke Baking Co., Buffalo, N. Y.
Filed May 7, 1952, Serial No. 629,303. Published Aug. 4, 1953. Class 46.

582,222. Children's Coats, Leggings, and Snow Suits. Philadelphia Girl Coat Company, Philadelphia, Pa.
Filed May 10, 1952, Serial No. 629,513. Published July 21, 1953. Class 39.

582,223. Protective Apparel for Industrial Workers, Made of Leather, Plastic, or Fabric, Alone or in Combination—Namely, Aprons, Sleeves, Hand-Pads, Leggings, and Spats. David Rittoff, doing business as The Plasco Safety Products Company, Springfield, Ohio.
Filed May 19, 1952, Serial No. 629,915. Published July 21, 1953. Class 39.

582,224. Scarves for Women and Girls. Scarves by Vera, Inc., New York, N. Y.
Filed May 21, 1952, Serial No. 630,031. Published July 21, 1953. Class 39.

582,225. Textile Fabrics in the Piece Made of Wool or Wool and Cashmere. Einiger Mills, Inc., New York, N. Y.
Filed May 27, 1952, Serial No. 630,317. Published Aug. 4, 1953. Class 42.

582,226. Men's and Boys' Work Pants, Work Shirts, Overalls, Etc. Carwood Manufacturing Company, Winder, Ga.
Filed June 2, 1952, Serial No. 630,577. Published Aug. 4, 1953. Class 39.

582,227. Automobile Headlight Shields. Peters & Russell, Inc., Springfield, Ohio.
Filed June 2, 1952, Serial No. 630,613. Published July 28, 1953. Class 21.

582,228. Men's and Boys' Clothing—Namely, Suits, Sport Jackets, Slacks, Top Coats, and Overcoats. E. Sawitsky & Bro. Inc., New York, N. Y.
Filed June 4, 1952, Serial No. 630,734. Published Jan. 20, 1953. Class 39.

582,229. Textile Fabrics of Cotton, Wool, Synthetic Fibres, and Mixtures Thereof. Brand & Oppenheimer Incorporated, New York, N. Y.
Filed June 10, 1952, Serial No. 630,983. Published Aug. 4, 1953. Class 42.

582,230. Electric Sewing Machine Motors and Electric Sewing Machine Lights. Sewing Supplies, Inc., Chicago, Ill.
Filed June 16, 1952, Serial No. 631,258. Published July 14, 1953. Class 21.

582,231. Outer and Under Shirts for Men, Women, Boys, and Girls. Butler Ames, Lowell, Mass.
Filed June 26, 1952, Serial No. 631,775. Published Aug. 4, 1953. Class 39.

582,232. Men's and Women's Sweaters and Men's and Children's Sport Shirts and Leisure Jackets, and Men's Vests and Club Stripe Scarves. W. F. Paine, Ltd., Godalming, England.
Original filed, act of 1946, Supplemental Register, June 25, 1952; amended to application, Principal Register, Feb. 10, 1953, Serial No. 631,839. Published Aug. 4, 1953. Class 39.

582,233. Drafting Room Equipment—Namely, Drafting Boards, Drafting Tables, Etc. Engineering Manufacturing Company, Sheboygan, Wis.
Filed June 27, 1952, Serial No. 631,854. Published Aug. 4, 1953. Class 26.

582,234. Pressure, Recording, and Indicating Gauges, Controllers and Meters and Parts Thereof—Namely, Metering Orifice Plates, and Switches Sold as a Unit. Industrial Instrument Corp., Odessa, Tex.
Filed July 1, 1952, Serial No. 632,032. Published Aug. 11, 1953. Class 26.

582,235. Electrical Apparatus for Generating Negative Ions in the Air for Alleviation of Respiratory Ailments, Etc. Ionics, Inc., San Francisco, Calif.
Filed July 1, 1952, Serial No. 632,033. Published Aug. 11, 1953. Class 21.

582,236. Translucent to Transparent Fabrics Cut to Size for Use in the Manufacture of Picture Projection Screens of the Rear Projection Type. Radiant Manufacturing Corporation, Chicago, Ill.
Filed July 2, 1952, Serial No. 632,101. Published Aug. 4, 1953. Class 26.

582,237. Eyeglass Frames. Zylite Products Co. Inc., New York, N. Y.
Filed July 5, 1952, Serial No. 632,191. Published Aug. 4, 1953. Class 26.

582,238. Cleaning Compound for Use in Steam Cleaners. Quick Charge, Inc., Oklahoma City, Okla.
Filed July 10, 1952, Serial No. 632,387. Published Aug. 4, 1953. Class 52.

582,239. Electric Lighting Fixtures—Namely, Floor Lamps, Table Lamps, Floor Lamp Shades, Table Lamp Shades, Floor Lamp Bases, and Table Lamp Bases. Kirkwood Industries, Inc., Los Angeles, Calif.
Filed July 11, 1952, Serial No. 632,432. Published Aug. 4, 1953. Class 21.

582,240. Electrically Heated Vulcanizing Machines, Apparatus, and Parts Therefor. Stenor Limited, Richmond, England.
Filed July 11, 1952, Serial No. 632,452. Published July 28, 1953. Class 21.

582,241. Electrically Heated Vulcanizing Machines, Apparatus, and Parts Therefor. Stenor Limited, Richmond, England.
Priority claimed under Sec. 44(d). British Registration No. B–703,993, filed Jan. 14, 1952.
Filed July 11, 1952, Serial No. 632,653. Published Aug. 11, 1953. Class 21.

582,242. Separators for Storage Batteries. Gould-National Batteries, Inc., St. Paul, Minn.
Filed July 19, 1952, Serial No. 632,783. Published July 28, 1953. Class 21.

582,243. Lubricating Oil. Tide Water Associated Oil Company, New York, N. Y.
Filed July 24, 1952, Serial No. 633,005. Published July 28, 1953. Class 15.

582,244. Gas Diffusers for Submergedly Diffusing Gas Into Liquid. Infilco Incorporated, Tucson, Ariz.
Filed July 26, 1952, Serial No. 633,108. Published June 9, 1953. Class 23.

582,245. Electrically Operated Indicating and Controlling Instruments, Etc. Robertshaw-Fulton Controls Company, Greensburg, Pa.
Filed Aug. 1, 1952, Serial No. 633,378. Published Aug. 11, 1953. Class 26.

582,246. Wallets, Billfolds, Key Holders, and Portfolios. The Osborne Company, Clifton, N. J.
Filed Aug. 13, 1952, Serial No. 633,859. Published Aug. 11, 1953. Class 3.

582,247. Automobile Washing Outfits of the Hydraulic Type, Etc. Curtis Manufacturing Company, St. Louis, Mo.
Filed Aug. 15, 1952, Serial No. 633,970. Published June 9, 1953. Class 23.

582,248. Chemical Water Repellent for Fabric Treatment. Crown Chemical Corporation, Providence, R. I.
Filed Aug. 18, 1952, Serial No. 634,075. Published Aug. 11, 1953. Class 6.

582,249. Electrical Resistors. Ward Leonard Electric Company, Mount Vernon, N. Y.
Filed Aug. 26, 1952, Serial No. 634,503. Published July 28, 1953. Class 21.

582,250. Textile Ribbons and Textile Fabrics, Including Lace, of Synthetic Fibers. Societe Rhodiaceta, Paris, France.
Filed Aug. 13, 1952, Serial No. 634,509. Published Aug. 11, 1953. Class 42.

582,251. Greeting Cards. Gospel Trumpet Company, Anderson, Ind.
Filed Aug. 28, 1952, Serial No. 634,590. Published Aug. 4, 1953. Class 38.

582,252. Printed Calling Cards, Sold in Packets or Boxes. Will Ecker & Co., St. Louis, Mo.
Filed Aug. 29, 1952, Serial No. 634,637. Published Aug. 4, 1953. Class 38.

582,253. Ferrous and Non-Ferrous Castings, Made to Order. Joseph Levine, trading and doing business as The Investment Casting Co., Newark, N. J.
Filed Aug. 29, 1952, Serial No. 634,647. Published May 12, 1953. Class 14.

582,254. Electrical Lighting Fixtures. Easy-Eye Lighting, Inc., doing business as Fluorescent Fabricators, St. Louis, Mo.
Filed Aug. 30, 1952, Serial No. 634,683. Published July 28, 1953. Class 21.

582,255. Textile Spinning Machinery. Textile Engineering Corporation, Whitman, Mass.
Filed Sept. 9, 1952, Serial No. 635,070. Published June 9, 1953. Class 23.

582,256. Thermionic Tubes and Tube Circuits, Etc. Varian Associates, Palo Alto, Calif.
Filed Sept. 12, 1952, Serial No. 635,205. Published Aug. 4, 1953. Class 21.

582,257. Ribbons for Use in Tying and Ornamenting Packages, Boxes, Etc. Burlington Mills Corporation, Greensboro, N. C.
Filed Sept. 18, 1952, Serial No. 635,398. Published July 14, 1953. Class 7.

582,258. Protective Sleeves, Boots, and Covers, Etc. A & A Manufacturing Company, Milwaukee, Wis.
Filed Sept. 27, 1952, Serial No. 635,866. Published Aug. 4, 1953. Class 35.

582,259. Electrical Generators of Ultrasonic Waves, Television Cameras, Television Camera Control Units, Etc General Precision Laboratory Incorporated, Pleasantville, N. Y.
Filed Sept. 30, 1952, Serial No. 635,960. Published July 14, 1953. Class 21.

582,260. Hand Luggage. Abel & Bach Inc., Milwaukee, Wis.
Filed Oct. 3, 1952, Serial No. 636,106. Published Aug. 4, 1953. Class 3.

582,261. Vitamins. Merck & Co., Inc., Rahway, N. J.
Filed Oct. 3, 1952, Serial No. 636,139. Published July 21, 1953. Class 18.

582,262. Men's and Boys' Hats, Suits, Sport Coats, Top Coats, Overcoats, Trousers, Sweaters, Outer and Under Shirts, and Shorts. Jacob Mayer, Easton, Pa.
Filed Oct. 11, 1952, Serial No. 636,532. Published July 21, 1953. Class 39.

582,263. Paper Sterilizing Bags and Paper Tubing Specially Designed To Contain Catheters and Surgical Instruments for Sterilization. Will Ross, Inc., Milwaukee, Wis.
Filed Oct. 13, 1952, Serial No. 636,573. Published Aug. 11, 1953. Class 44.

582,264. Men's and Boys' Dress Shirts. The Willow Shirt Corporation, New Haven, Conn.
Filed Oct. 17, 1952, Serial No. 636,832. Published July 14, 1953. Class 39.

582,265. Electrostatic Dust Precipitating Equipment. Collectron (Proprietary) Limited, Johannesburg, Union of South Africa.
Filed Oct. 20, 1952, Serial No. 636,877. Published July 21, 1953. **Class 21.**

582,266. Target Course Generators for Simulating Moving Radar Targets, Vector Component Integrators, Analog Computing Devices and Parts Thereof, Resolvers, and Integrators. The Reflectone Corporation, Stamford, Conn.
Filed Oct. 23, 1952, Serial No. 637,086. Published Aug. 4, 1953. Class 26.

582,267. Magazines. Installment Retailing, Inc., New York, N. Y.
Filed Oct. 30, 1952, Serial No. 637,379. Published Aug. 4, 1953. Class 38.

582,268. Hats for Men and Boys. Wallach's, Inc., New York, N. Y., and elsewhere.
Filed Oct. 31, 1952, Serial No. 637,468. Published July 14, 1953. Class 39.

582,269. Telephone, Telegraph, and Teletype Apparatus—Namely, Carrier Terminals, Switchboards, Repeaters, Coding Devices, Transmitters, Recorders, Receivers, Monitoring Devices, Relays Including Polar Relays and Associated Apparatus Therefor. Masp'h Telephone & Radio Corporation, Brooklyn, N. Y.
Filed Nov. 5, 1952, Serial No. 637,661. Published July 14, 1953. Class 21.

582,270. Athletic Clothing—Namely, Uniforms for Baseball, Etc. Adolph Blaich, Incorporated, San Francisco, Calif.
Filed Nov. 14, 1952, Serial No. 638,059. Published July 21, 1953. Class 39.

582,271. Vulcanizing Machines for Tires. National Rubber Machinery Company, Akron, Ohio.
Filed Nov. 15, 1952, Serial No. 638,153. Published June 9, 1953. Class 23.

582,272. Electronic Filter and By-Pass Units for Radio and Television Circuit Applications, Etc. Globe-Union Inc., Milwaukee, Wis.
Filed Nov. 19, 1952, Serial No. 638,300. Published July 14, 1953. Class 21.

582,273. Men's Top Coats, Overcoats, Storm Coats, Sport Jackets, Men's Suits, Outer Shirts, and Ties. Riki of California, Inc., Jersey City, N. J.
Filed Nov. 19, 1952, Serial No. 638,313. Published July 28, 1953. Class 39.

582,274. Tailor and Household Shears, Folding Shears, Thread Clipping Shears, Pliers, and Cutting Tools for Cutting Notches in Patterns. Superior Sewing Machine and Supply Corp., New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,501. Published June 9, 1953. Class 23.

582,275. Electrical Heating Elements and Electrical Immersion Water Heaters. The Ambory Corporation, Hazel Park, Mich.
Filed Nov. 24, 1952, Serial No. 638,513. Published July 14, 1953. Class 21.

582,276. Playing Cards. Clair D. Cocanower, Phoenix, Ariz.
Filed Nov. 24, 1952, Serial No. 638,520. Published Aug. 11, 1953. Class 22.

582,277. Filling and Cementing Material in Powder and Liquid Form for Dental Use. Lee S. Smith & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill.
Filed Dec. 2, 1952, Serial No. 638,880. Published Aug. 4, 1953. Class 44.

582,278. Automatic Take Up Reels for Electric Cords and Cables. Bernhardt Stahmer, doing business as Industrial Electrical Works, Omaha, Nebr.
Filed Dec. 2, 1952, Serial No. 638,882. Published Aug. 11, 1953. Class 21.

582,279. Electric Lamps. Dewey C. Daubmeyer, doing business as Riviera Lamps, Fort Lauderdale, Fla.
Filed Dec. 3, 1952, Serial No. 638,901. Published July 14, 1953. Class 21.

582,280. Television Receiving Sets. Kaye-Halbert Corporation, Culver City, Calif.
Filed Dec. 4, 1952, Serial No. 638,958. Published July 14, 1953. Class 21.

582,281. Earth Cutting and Pulverizing Discs for Plows, Harrows, and Like Agricultural Implements and Machines. Borg-Warner Corporation, Chicago, Ill.
Filed Dec. 5, 1952, Serial No. 639,011. Published June 9, 1953. Class 23.

582,282. Pocket Knives. Camillus Cutlery Company, Camillus, N. Y.
Filed Dec. 5, 1952, Serial No. 639,014. Published June 9, 1953. Class 23.

582,283. Men's Pants and Outer Shirts. Sweet-Orr & Co., Inc., Wappingers Falls and New York, N. Y.
Filed Dec. 10, 1952, Serial No. 639,294. Published Aug. 4, 1953. Class 39.

582,284. Ventriloquist Dummies. Jimmy Nelson Enterprises, Inc., Chicago, Ill.
Filed Dec. 13, 1952, Serial No. 639,436. Published Aug. 11, 1953. Class 22.

582,285. Ventriloquist Dummies. Jimmy Nelson Enterprises, Inc., Chicago, Ill.
Filed Dec. 13, 1952, Serial No. 639,437. Published Aug. 11, 1953. Class 22.

582,286. Wallets, Billfolds, Purses, Pocketbooks, and Combination Purses and Billfolds. Aristocrat Leather Products, Inc., New York, N. Y.
Filed Dec. 16, 1952, Serial No. 639,547. Published Aug. 4, 1953. Class 3.

582,287. Piece Goods of Cotton, Mohair, and Wool, or Combinations Thereof. Goodall-Sanford, Inc., Sanford, Maine.
Filed Dec. 16, 1952, Serial No. 639,562. Published Aug. 4, 1953. Class 42.

582,288. Electrical Lighting Fixtures and Parts Thereof. Swivelier Company, Inc., New York, N. Y.
Filed Dec. 16, 1952, Serial No. 639,596. Published July 28, 1953. Class 21.

582,289. Boys' Outer Clothing, Specifically Bib Pants, Slacks, Knickers, Suits, Overcoats, Snow Suits, and Boot Pants. K. C. Boyswear Mfg. Co., Kansas City, Mo.
Filed Dec. 18, 1952, Serial No. 639,688. Published Aug. 4, 1953. Class 39.

582,290. Magazine Published Quarterly. The Parents' Institute, Inc., New York, N. Y.
Filed Dec. 18, 1952, Serial No. 639,708. Published Aug. 11, 1953. Class 38.

582,291. Magazine Published Quarterly. The Parents' Institute, Inc., New York, N. Y.
Filed Dec. 18, 1952, Serial No. 639,709. Published Aug. 11, 1953. Class 38.

582,292. Men's Top Coats, Suits, Sport Coats, and Slacks. Don Stevens Classics, Inc., New York, N. Y.
Filed Dec. 26, 1952, Serial No. 640,037. Published Aug. 4, 1953. Class 39.

582,293. Non-Woven Fabric in the Piece, Used as a Textile Substitute. Steralon Products, Incorporated, Dover, Del., and Philadelphia, Pa.
Filed Dec. 27, 1952, Serial No. 640,084. Published Aug. 4, 1953. Class 42.

582,294. Non-Woven Fabric in the Piece, Used as a Textile Substitute. Steralon Products, Incorporated, Dover, Del., and Philadelphia, Pa.
Filed Dec. 27, 1952, Serial No. 640,085. Published Aug. 4, 1953. Class 42.

582,295. Non-Woven Fabric in the Piece, Used as a Textile Substitute. Steralon Products, Incorporated, Dover, Del., and Philadelphia, Pa.
Filed Dec. 27, 1952, Serial No. 640,086. Published Aug. 4, 1953. Class 42.

582,296. Piece Goods of Cotton, Silk, Rayon, Nylon, Linen, Hemp, Wool, Worsted, or Hair, or Mixtures of Two or More of These Materials. Robert Barclay & Company Limited, Manchester, England.
Filed Dec. 30, 1952, Serial No. 640,142. Published Aug. 4, 1953. Class 42.

582,297. Food Emulsifier Consisting of Aqueous Dispersion of Super Glycerinated Oils, Etherified Oil Derivative and Sodium Propionate, and Used for the Preservation of Sweet Goods, Cakes, Bread, and Icings. Better Brands Food Products, New York, N. Y.
Filed Jan. 5, 1953, Serial No. 640,323. Published Aug. 11, 1953. Class 46.

582,298. Electric Vacuum Cleaners. Eureka Williams Corporation, Bloomington, Ill.
Filed Jan. 7, 1953, Serial No. 640,447. Published July 28, 1953. Class 21.

582,299. Men's and Boys' Caps and Hats. Franklin & Lasoff, Inc., Boston, Mass.
Filed Jan. 7, 1953, Serial No. 640,451. Published Aug. 4, 1953. Class 39.

582,300. Ladies' Hand Bags and Pocketbooks. Champ Products Corporation, Union City, Ind.
Filed Jan. 8, 1953, Serial No. 640,498. Published Aug. 4, 1953. Class 3.

582,301. Men's and Boys' Overcoats, Coats, Raincoats, Suits, Sweaters, Sport Shirts, and Sport Coats. Lansburgh & Bro., Washington, D. C., assignor to City Stores Company, a corporation of Delaware.
Filed Jan. 9, 1953, Serial No. 640,572. Published Aug. 4, 1953. Class 39.

582,302. Plastic Tablecloths. A. J. Siris Products Corp., New York, N. Y.
Filed Jan. 13, 1953, Serial No. 640,698. Published Aug. 4, 1953. Class 42.

582,303. Men's Sport Shirts and Dress Shirts. Rich Guild Shirt Company, New York, N. Y.
Filed Jan. 15, 1953, Serial No. 640,807. Published July 21, 1953. Class 39.

582,304. Ladies' Handbags of Leather, Imitation Leather, Plastic, Fabric, and Combinations Thereof. U. S. Handbag Corporation, New York, N. Y.
Filed Jan. 19, 1953, Serial No. 640,980. Published Aug. 4, 1953. Class 3.

582,305. Men's and Boys' Sport Shirts, Sport Jackets, and Sport Slacks. Bedford Shirt Corp., New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,001. Published July 21, 1953. Class 39.

582,306. Therapeutic Iron Compound To Supply Iron for Hemoglobin Regeneration. Flint, Eaton and Company, Decatur, Ill.
Filed Jan. 21, 1953, Serial No. 641,036. Published July 21, 1953. Class 18.

582,307. Medicine in Ampule Form for Physical or Mental Depression, for Fatigue and Secondary Anemia. Les Laboratoires Albert Rolland, Société Anonyme, Paris, France.
Filed Jan. 21, 1953, Serial No. 641,062. Published July 21, 1953. Class 18.

582,308. Sedative. Les Laboratoires Albert Rolland, Société Anonyme, Paris, France.
Filed Jan. 21, 1953, Serial No. 641,063. Published July 21, 1953. Class 18.

582,309. Ignition Coils and Ignition Distributors. Mallory Electric Corporation, Detroit, Mich.
Filed Jan. 23, 1953, Serial No. 641,193. Published July 14, 1953. Class 21.

582,310. Men's Slacks Made of Rayon Gabardine. Day's Tailor-D Clothing, Inc., doing business as WPL 7997, Tacoma, Wash.
Filed Jan. 26, 1953, Serial No. 641,277. Published Aug. 4, 1953. Class 39.

582,311. Coconut Oil Popcorn Seasoning. Vegetable Oil Products Company, Inc., Wilmington, Calif.
Filed Jan. 26, 1953, Serial No. 641,358. Published Aug. 4, 1953. Class 46.

582,312. Fabrics-in-the-Piece, Made of Wool and Synthetic Fibers. Grandma Moses Properties, Inc., New York, N. Y.
Filed Jan. 28, 1953, Serial No. 641,447. Published Aug. 4, 1953. Class 42.

582,313. Photographs, Reprints of Photographs and Pictures, and the Like. J. Leslie Horne, Oklahoma City, Okla.
Filed Jan. 29, 1953, Serial No. 641,508. Published Aug. 4, 1953. Class 38.

582,314. Starting Fuel for Compression-Ignited Engines Containing Volatile Organic Compounds Which Are Readily Ignitible by Compression at Low Temperatures. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif.
Filed Jan. 30, 1953, Serial No. 641,578. Published July 28, 1953. Class 15.

582,315. Web Fed, Rotary, Offset Printing Presses. John Waldron Corporation, Highland Park, N. J.
Filed Jan. 30, 1953, Serial No. 641,587. Published June 9, 1953. Class 23.

582,316. Television Antenna. The Gabriel Company, Cleveland, Ohio.
Filed Feb. 2, 1953, Serial No. 641,616. Published July 21, 1953. Class 21.

582,317. Colored Pictorial Post Cards and Colored Pictures. Dexter Press, Inc., West Nyack, N. Y.
Filed Feb. 3, 1953, Serial No. 641,672. Published Aug. 4, 1953. Class 38.

582,318. Men's Jackets and Sport Jackets. The Johnnor Company, Linden, N. J.
Filed Feb. 3, 1953, Serial No. 641,682. Published July 28, 1953. Class 39.

582,319. Metal Insulated Lining Fabric in a Roll or by the Yard, Made of Cotton, Wool, Rayon, or Silk and Nylon. Newport Finishing Corporation, Fall River, Mass.
Filed Feb. 5, 1953, Serial No. 641,792. Published Aug. 4, 1953. Class 42.

582,320. Socks for Men. Dwight S. Williams Company, Inc., New York, N. Y.
Filed Feb. 9, 1953, Serial No. 642,001. Published Aug. 11, 1953. Class 39.

582,321. Polo Shirts, Cardigans, Shorts for Outer Wear, and Socks for Boys and Girls. United Hosiery Mills Corporation, Chattanooga, Tenn., assignor to United Sales Corporation, Wilmington, Del., a corporation of Delaware.
Filed Feb. 10, 1953, Serial No. 642,055. Published July 28, 1953. Class 39.

582,322. Men's Suits and Coats. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Feb. 11, 1953, Serial No. 642,071. Published July 28, 1953. Class 39.

582,323. Piece Goods of Cotton, Wool, Silk, and Synthetic Fibers or Filaments. Siegel Fabrics, Inc., Commack, N. Y.
Filed Feb. 12, 1953, Serial No. 642,172. Published Aug. 4, 1953. Class 42.

582,324. Ladies' Hosiery. Ladd Hosiery Mills, Inc., Reading, Pa.
Filed Feb. 13, 1953, Serial No. 642,231. Published Aug. 11, 1953. Class 39.

582,325. Women's Hosiery. Munsingwear, Inc., Minneapolis, Minn.
Filed Feb. 16, 1953, Serial No. 642,296. Published Aug. 11, 1953. Class 39.

582,326. Binder Twine and Baler Twine. The Bob Stone Cordage Company, Chariton, Iowa.
Filed Feb. 16, 1953, Serial No. 642,319. Published July 14, 1953. Class 7.

582,327. Textile Fabrics Made of Cotton and Synthetic Fibres. Lincoln Fabrics Co. Inc., New York, N. Y.
Filed Feb. 17, 1953, Serial No. 642,360. Published Aug. 4, 1953. Class 42.

582,328. Mineral Oils Used for Rust-Proofing Purposes. The Texas Company, Dover, Del., and New York, N. Y.
Filed Feb. 17, 1953, Serial No. 642,378. Published July 21, 1953. Class 13.

582,329. Sensitized Photographic Papers and Cloths To Make Reproductions of Documents and Engineering Drawings, Including Those Sensitized With Diazo Compounds Which Can Be Developed by the Semi-Wet Process. Keuffel & Esser Company, Hoboken, N. J.
Filed Feb. 19, 1953, Serial No. 642,478. Published Aug. 4, 1953. Class 26.

582,330. Electrical Analyzing Apparatus for Polarographic Analysis, Etc. Leeds and Northrup Company, Philadelphia, Pa.
Filed Feb. 19, 1953, Serial No. 642,480. Published Aug. 4, 1953. Class 26.

582,331. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed Feb. 20, 1953, Serial No. 642,539. Published Aug. 4, 1953. Class 42.

582,332. Antibiotic Mixtures. Heyden Chemical Corporation, New York, N. Y.
Filed Feb. 24, 1953, Serial No. 642,638. Published Aug. 11, 1953. Class 18.

582,333. Rayon Fabric Woven To Simulate Linen and Used in the Manufacture of Ladies' Wearing Apparel. Rosecrest Manufacturing Company, Boston, Mass.
Filed Feb. 24, 1953, Serial No. 642,693. Published Aug. 4, 1953. Class 42.

582,334. Cameras. San-ei Sangyo Co., Ltd., Tokyo, Japan.
Filed Feb. 25, 1953, Serial No. 642,773. Published Aug. 11, 1953. Class 26.

582,335. Multiple Antibiotic Preparation. Parke, Davis & Company, Detroit, Mich.
Filed Feb. 27, 1953, Serial No. 642,896. Published Aug. 11, 1953. Class 18.

582,336. Non-Consumable Resistance Welding Tips or Electrodes, Spot Welding Tips, Seam Welding Wheels, Bushings for Seam Welder Shafts, Welding Dies, and Welding Electrode or Tip Holders. Weiger Weed & Company, Detroit, Mich.
Filed Feb. 27, 1953, Serial No. 642,916. Published Aug. 11, 1953. Class 21.

582,337. Oral Lipid Emulsion for Supplementing Caloric Intake and Aiding in Lipoid Absorption. Adweyt Company, Chicago, Ill.
Filed Mar. 2, 1953, Serial No. 642,925. Published Aug. 11, 1953. Class 18.

582,338. Cotton Rugs and Carpeting. Eugene T. Barwick, doing business as E. T. Barwick Mills, Chamblee, Ga.
Filed Mar. 2, 1953, Serial No. 642,930. Published Aug. 4, 1953. Class 42.

582,339. Machines for Exposing and Developing White Prints, Brown-Line Prints, and Similar Types of Reproductions. Paragon-Revolute Corporation, Rochester, N. Y.
Filed Mar. 2, 1953, Serial No. 642,988. Published Aug. 11, 1953. Class 26.

582,340. Woven Elastic Webbing With Non-Skid Ridges Woven Into the Webbing Surface, the Ridges Comprising Threads of Textile Material Which Have a Rubber Coating Adhering to Them, the Webbing Being Sold in Bulk to the Clothing Trade. United Elastic Corporation, Easthampton, Mass.
Filed Mar. 3, 1953, Serial No. 643,054. Published Aug. 4, 1953. Class 42.

582,341. Printed Electrical and Electronic Circuits. Circuitron, Inc., Hoboken, N. J.
Filed Mar. 4, 1953, Serial No. 643,075. Published Aug. 11, 1953. Class 21.

582,342. Wool Fabrics in the Piece. Leeds Associates Inc., New York, N. Y.
Filed Mar. 4, 1953, Serial No. 643,105. Published Aug. 4, 1953. Class 42.

582,343. Newsletter. Lawrence H. Smith, Washington, D. C.
Filed Mar. 13, 1953, Serial No. 643,257. Published Aug. 18, 1953. Class 38.

582,344. Printed Publications Issued Periodically or From Time to Time. Charleston Electrical Supply Company, Charleston, W. Va.
Filed Mar. 9, 1953, Serial No. 643,289. Published Aug. 4, 1953. Class 38.

582,345. Disinfectant and Fungicide. King Research, Inc., Brooklyn, N. Y.
Filed Mar. 9, 1953, Serial No. 643,340. Published Aug. 4, 1953. Class 6.

582,346. Textile Fabrics of Cotton, Wool, and Synthetic Fibres. Katz, Jacobson & Paris, Inc., New York, N. Y.
Filed Mar. 10, 1953, Serial No. 643,427. Published Aug. 11, 1953. Class 42.

582,347. Periodical Publications. Advertising Publications, Incorporated, Chicago, Ill.
Filed Mar. 12, 1953, Serial No. 643,527. Published Aug. 11, 1953. Class 38.

582,348. Column Heading. New York Herald Tribune Inc., New York, N. Y.
Filed Mar. 13, 1953, Serial No. 643,603. Published Aug. 11, 1953. Class 38.

582,349. Educational Game Based Upon a Fictitious Business Having Competitors, Etc. Frederick R. Freeman, doing business as Freeman Publishing Co., Kansas City, Mo.
Filed Mar. 23, 1953, Serial No. 644,026. Published Aug. 4, 1953. Class 22.

582,350. Piece Goods Made of Synthetic Fibers. M. Hausman & Sons, Inc., New York, N. Y.
Filed Mar. 24, 1953, Serial No. 644,113. Published Aug. 4, 1953. Class 42.

582,351. Covers for Golf Balls. The Worthington Ball Company, Elyria, Ohio.
Filed Mar. 27, 1953, Serial No. 644,367. Published Aug. 11, 1953. Class 22.

582,352. Chemical Preparation Used in the After Treatment of Dyed Fabrics as a Fixative for Dyestuffs. Geigy Company, Inc., New York, N. Y.
Filed Apr. 13, 1953, Serial No. 645,140. Published Aug. 25, 1953. Class 6.

582,353. Pneumatic Rubber Tires. Seiberling Rubber Company, Barberton, Ohio.
Filed Apr. 14, 1953, Serial No. 645,265. Published Aug. 11, 1953. Class 35.

582,354. Garden Hose. Boston Woven Hose and Rubber Company, Cambridge, Mass.
Filed Apr. 23, 1953, Serial No. 645,773. Published Aug. 11, 1953. Class 35.

582,355. Rubber Tires. Atlas Supply Company, Newark, N. J.
Filed Apr. 27, 1953, Serial No. 645,945. Published Aug. 11, 1953. Class 35.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

582,356. (Class 51. Cosmetics and Toilet Preparations.) Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill. Original filed, act of 1946, Principal Register, Apr. 21, 1951; amended to application, Supplemental Register, June 22, 1953, Serial No. 612,963.

ZURICH BLUE

Applicant makes no claim to the word "Blue" alone.
For Lipstick.
Claims use since Apr. 9, 1945.

582,357. (Class 21. Electrical Apparatus, Machines, and Supplies.) Rudolph Kahn, doing business as Hub Vacuum Stores, New York, N. Y. Original filed, act of 1946, Principal Register, June 21, 1951; amended to application, Supplemental Register, Mar. 13, 1952, Serial No. 615,493.

REMINGTON

The stippling on the drawing is not intended to represent color.
For Electric Domestic Vacuum Cleaners.
Claims use since Feb. 16, 1951.

582,358. (Class 37. Paper and Stationery.) Strahnier Corporation, Sioux Falls, S. Dak. Original filed, act of 1946, Principal Register, Jan. 5, 1952; amended to application, Supplemental Register, Aug. 27, 1953, Serial No. 623,262.

GIFTOLOG

For Record Book.
Claims use since Sept. 15, 1951.

582,359. (Class 27. Horological Instruments.) Hawthorne Watch Company, San Francisco, Calif. Original filed, act of 1946, Principal Register, May 27, 1952; amended to application, Supplemental Register, Aug. 17, 1953, Serial No. 630,328.

Hawthorne

For Watches.
Claims use since August 1950.

582,360. (Class 28. Jewelry and Precious-Metal Ware.) U. S. Diamond Ring Corp., New York, N. Y. Original filed, act of 1946, Principal Register, June 5, 1952; amended to application, Supplemental Register, Apr. 23, 1953, Serial No. 630,816.

Diamond Daisy Chain

For Bracelets.
Claims use since Apr. 15, 1952.

582,361. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Joseph B. Cooper, doing business under the name and style of Travel Auto Bag Co., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 2, 1952; amended to application, Supplemental Register, May 25, 1953, Serial No. 624,447.

NU-EASE

For Traveling Bags in the Nature of Luggage.
Claims use since Nov. 26, 1941.

582,362. (Class 4. Abrasives and Polishing Materials.) Milton J. Fitzpatrick, doing business under the fictitious firm name and style of Seal Plate Company, Hollywood, Calif. Original filed, act of 1946, Principal Register, May 12, 1952; amended to application, Supplemental Register, June 19, 1953, Serial No. 629,563.

SEAL PLATE

For Automobile Polish.
Claims use since Feb. 21, 1952.

582,363. (Class 22. Games, Toys, and Sporting Goods.) Beepers Novelty Corp., New York, N. Y. Original filed, act of 1946, Principal Register, June 11, 1952; amended to application, Supplemental Register, Sept. 1, 1953, Serial No. 632,645.

BEEPER

For Toy Constituting a Noise Maker, Specifically for Insertion Into Children's Garments.
Claims use since May 23, 1952.

582,364. (Class 12. Construction Materials.) The Armstrong Company, Chicago, Ill. Filed Jan. 22, 1953, Serial No. 641,116.

ARMSTRONG KWIK-SEAL

For Plastic, Caulking and Sealing Composition.
Claims use since February 1950.

582,365. (Class 46. Foods and Ingredients of Foods.) Frederick C. Adams, doing business under the name of Wild Acres Turkey Farm, Steep Falls, Maine. Filed Mar. 6, 1953, Serial No. 643,258.

Good to the last gobble!

For Eviscerated Oven-Ready Stuffed and Unstuffed Turkeys.
Claims use since Nov. 1, 1951.

582,366. (Class 37. Paper and Stationery.) John Bonanno, Flushing, N. Y. Original filed, act of 1946, Principal Register, Mar. 9, 1953; amended to application, Supplemental Register, Aug. 14, 1953, Serial No. 643,274.

One to Five

For Partially Printed Marking Paper for Patterns.
Claims use since Feb. 4, 1952.

582,367. (Class 46. Foods and Ingredients of Foods.) Doyle Packing Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Mar. 10, 1953; amended to application, Supplemental Register, July 27, 1953, Serial No. 643,411.

KIT KAT

For Canned Cat Food, Consisting of Fresh Fish, Cracked Wheat, Soya Bean Meal, and Salt.
Claims use since May 27, 1933.

Service Marks

582,368. (Class 103. Construction and Repair.) Nu-Grain Corporation, Chicago, Ill., successor to Sol Taplin. Original filed, act of 1946, Principal Register, Aug. 19, 1949; amended to application, Supplemental Register, Dec. 5, 1951, Serial No. 583,716.

nu-grain

For Refinishing and Regraining Furniture.
Claims use since Oct. 1, 1947.

582,369. (Class 100. Miscellaneous.) National Stationery and Office Equipment Association, Washington, D. C. Original filed, act of 1946, Principal Register, June 6, 1952; amended to application, Supplemental Register, Aug. 18, 1953, Serial No. 630,851.

NATIONAL STATIONERY and OFFICE EQUIPMENT ASSOCIATION

Applicant claims ownership of Registration No. 513,499.

For Furnishing to Its Members Information Relative to Governmental Laws and Regulations Affecting the Industry and Trade; Furnishing Trade Information and Promotional Ideas; Promoting a Friendly and Enlarged Intercourse Between Members of the Stationery, Office Equipment, and Office Supply Industry Generally; Advancing and Promoting Efficient Use of Office Equipment and Office Supplies by Means of Publicity and Exchange of Ideas.
Claims use since May 10, 1951.

TRADE-MARK REGISTRATIONS RENEWED

91,615. MONARCH. Registered May 13, 1913. Sprout, Waldron & Co. Re-renewed May 13, 1953, to Sprout, Waldron & Company, Inc., Muncy, Pa., a corporation of Pennsylvania. Machines for the Manufacture of Flour, Cornmeal, and Feed, Cleaning, Grinding, Etc. Class 23.

91,845. "VETERAN BRAND" AND DESIGN. Registered June 3, 1913. E. Franklin Brewster. Re-renewed June 3, 1953, to Veteran Foods Sales Co., Rochester, N. Y., a partnership. Canned Vegetables, Canned Pork and Beans, and Canned Salmon. Class 46.

92,204. EXMET. Registered June 24, 1913. The Expanded Metal Company Limited. Re-renewed June 24, 1953, to The Expanded Metal Company Limited, London, England, a company organized under the laws of Great Britain. Expanded Metal. Class 14.

93,410. GOODY GOODY. Registered Sept. 16, 1913. The J. K. Armsby Co., Chicago, Ill., and San Francisco, Calif. Re-renewed Sept. 16, 1953, to California Packing Corporation, San Francisco, Calif., a corporation of New York. Canned Fruits, Dried Fruits, and Raisins. Class 46.

93,806. RED DART. Registered Oct. 21, 1913. The J. K. Armsby Co., Chicago, Ill., and San Francisco, Calif. Re-renewed Oct. 21, 1953, to California Packing Corporation, San Francisco, Calif., a corporation of New York. Canned Fruits. Class 46.

94,581. ARGO. Registered Dec. 23, 1913. The J. K. Armsby Company. Re-renewed Dec. 23, 1953, to California Packing Corporation, San Francisco, Calif., a corporation of New York. Canned Fruits, Dried Fruits, and Raisins. Class 46.

94,858. "RED DART" AND REPRESENTATION OF DART LINED FOR RED. Registered Jan. 13, 1914. The J. K. Armsby Co. Re-renewed Jan. 13, 1954, to California Packing Corporation, San Francisco, Calif., a corporation of New York. Dried Fruits. Class 46.

302,934. APOGÉE. Registered May 2, 1933. Veolay, Inc., New York, N. Y. Renewed May 2, 1953, to Parfumerie Violet, Societe Anonyme, Paris, France, a corporation organized under the laws of the Republic of France. Perfumes. Class 51.

303,972. "HANCOCK REGULAR" ETC. AND DESIGN. Registered June 13, 1933. Hancock Oil Company of California. Renewed June 13, 1953, to Hancock Oil Company, Long Beach, Calif., a corporation of Delaware. Gasoline. Class 15.

303,973. "5 POINT" AND DESIGN. Registered June 13, 1933. Hancock Oil Company of California. Renewed June 13, 1953, to Hancock Oil Company, Long Beach, Calif., a corporation of Delaware. Gasoline. Class 15.

305,217. TWINKLES. Registered Aug. 8, 1933. Vortex Cup Company, Chicago, Ill. Renewed Aug. 8, 1953, to Dixie Cup Company, Easton, Pa., a corporation of Delaware. Paper Cups. Class 2.

305,226. SUEDE-SKIN. Registered Aug. 8, 1933. Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware. Renewed Aug. 8, 1953. Rayon Piece Goods. Class 42.

305,238. "BRIDAL" AND DESIGN. Registered Aug. 8, 1933. Comly Flanigen Company. Renewed Aug. 8, 1953, to Comly-Flanigen Co., Philadelphia, Pa., a firm. Canned Fruit, Canned Vegetables, Olive Oil, Macaroni. Class 46.

305,248. SIMPLEX. Registered Aug. 8, 1933. The Simplex Piston Ring Co. of America, Inc. Renewed Aug. 8, 1953, to Simplex Piston Ring Mfg. Company, Cleveland, Ohio, a corporation of Ohio. Piston Pins. Class 23.

305,344. PAPE'S "COLD" COMPOUND ETC. AND DESIGN. Registered Aug. 15, 1933. Sterling Products (Incorporated), Wheeling, W. Va. Renewed Aug. 15, 1953, to Sterling Drug Inc., New York, N. Y., a corporation of Delaware. Preparation Used in the Treatment of Colds. Class 18.

305,358. FORMODE. Registered Aug. 15, 1933. The Knox Company, Kansas City, Mo. Renewed Aug. 15, 1953, to The Knox Company, Los Angeles, Calif., a copartnership. Laxative and Diuretic Medicinal Tea. Class 18.

305,447. TIE-TIE. Registered Aug. 15, 1933. Chicago Printed String Co. Renewed Aug. 15, 1953, to Chicago Printed String Company, Chicago, Ill., a firm. Cordage Constructed From Cotton Yarn Threads, Rayon Threads, and Silk Threads. Class 7.

305,721. "PURITAN" ETC. AND DESIGN. Registered Aug. 22, 1933. Puritan Soap Company. Renewed Aug. 22, 1953, to Puritan Company, Incorporated, Rochester, N. Y., a corporation of New York. Brake Fluid—Namely, a Fluid Composition for the Transmission of Hydraulic Pressure in Brake Systems Such as Are Used in Automobiles. Class 6.

305,972. GASKELLAC. Registered Aug. 29, 1933. Puritan Soap Company. Renewed Aug. 29, 1953, to Puritan Company, Incorporated, Rochester, N. Y., a corporation of New York. Liquid Cement Prepared Especially as an Adhesive and Leak-Proofing Material for Cylinder Head Gaskets and for Hose Connections and Bicycle Tires. Class 5.

305,993. "CAL-ACETYL" AND DESIGN. Registered Aug. 29, 1933. William E. Anklam, Chicago, Ill., assignor to Cal-Acetyl Company. Renewed Aug. 29, 1953, to Sterling Drug Inc., New York, N. Y., a corporation of Delaware. Acetyl Salicylic Acid Combined With Calcium Salts. Class 18.

306,053. "Y-PON" AND DESIGN. Registered Sept. 5, 1933. Puritan Soap Company. Renewed Sept. 5, 1953, to Puritan Company, Incorporated, Rochester, N. Y., a corporation of New York. Automobile Polish in Liquid Form. Class 4.

306,310. WIGLERS. Registered Sept. 12, 1933. Albert I. Wigler, Newark, N. J. Renewed Sept. 12, 1953. Oil for the Treatment of the Skin, Tissues, Scalp, Face, Body, Feet, and Hands. Class 18.

306,400. CALTEX. Registered Sept. 19, 1933. Caltex Sportswear, Inc. Renewed Sept. 19, 1953, to Caltex of California, Inc., Los Angeles, Calif., a corporation of Delaware. Women's Knitted Sportswear—Namely, Sweaters, Suits, Skirts, Etc. Class 39.

306,568. SHADOW LAYER CAKE. Registered Sept. 26, 1933. Frank G. Shattuck Co. Renewed Sept. 26, 1953, to Frank G. Shattuck Company, New York, N. Y., a corporation of Massachusetts. Bakery Product Commonly Referred to as Layer Cake. Class 46.

307,173. "GOLD MARK" ETC. AND DESIGN. Registered Oct. 17, 1933. Reingold Hosiery Co. Renewed Oct. 17, 1953, to Gold Mark Hosiery Co., Inc., New York, N. Y., a corporation of New York. Ladies' and Children's Hosiery, and Men's Hosiery. Class 39.

307,496. TOLLY. Registered Oct. 24, 1933. Tollemache's Breweries Limited, Ipswich, England, a company incorporated under the laws of Great Britain. Renewed Oct. 24, 1953. Ales. Class 48.

307,540. SHIP DESIGN. Registered Oct. 31, 1933. The American Paper Goods Company, Montclair, N. J., and Kensington, Berlin, Conn. Renewed Oct. 31, 1953, to The American Paper Goods Company, Kensington, Conn., a corporation of New Jersey. Paper Bags and Drinking Cups Composed Wholly or in Part of Paper. Class 2.

307,620. "WHITE-KNIGHT" AND DESIGN. Registered Oct. 31, 1933. Will Ross, Inc., Milwaukee, Wis., a corporation of Wisconsin. Renewed Oct. 31, 1953. Curtains; Curtain Materials—Namely, Scrim, Marquisette; Sheets; Etc. Class 42.

307,769. WARCO. Registered Oct. 31, 1933. Warwick Chemical Company, West Warwick, R. I. Renewed Oct. 31, 1953, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Chemical Materials for Use for Treating and Finishing Textiles. Class 6.

307,924. "AIRWAY." Registered Nov. 14, 1933. United States Travelware Corporation, Fitchburg, Mass. Renewed Nov. 14, 1953, to United States Travelware Corporation, Manchester, N. H., a corporation of Massachusetts. Suitcases. Class 3.

308,004. REPRESENTATION OF FLANGED POST LINED FOR RED. Registered Nov. 14, 1933. Keystone Steel & Wire Company, Peoria, Ill., a corporation of Illinois. Renewed Nov. 14, 1953. Metallic Fence Posts. Class 13.

308,251. SWEETEX. Registered Nov. 28, 1933. The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Renewed Nov. 28, 1953. Bulk Vegetable Shortening of Semi-Solid Form. Class 46.

308,261. "BLUE RIBBON" ETC. AND DESIGN LINED FOR BLUE. Registered Nov. 28, 1933. Wm. L. Barrell Co. Inc., New York, N. Y., a corporation of Maine. Renewed Nov. 28, 1953. Cotton Piece Goods—Namely, Ducks, Drills, and Twills. Class 42.

308,722. REPRESENTATION OF LABEL DESIGN LINED FOR ORANGE AND LIGHT YELLOW. Registered Dec. 19, 1933. Schering Corporation, New York, N. Y. Renewed Dec. 19, 1953, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey. Laxative Preparation. Class 18.

308,923. DURALAUN. Registered Dec. 26, 1933. Wilson Brothers, Chicago, Ill. Renewed Dec. 26, 1953, to Duralaun Corporation, New York, N. Y., a corporation of New York. Men's Negligee Shirts. Class 39.

309,223. REPRESENTATION OF ESKIMO BOY HOLDING BOTTLE. Registered Jan. 9, 1934. Clicquot Club Company, Millis, Mass., a corporation of Rhode Island. Renewed Jan. 9, 1954. Carbonated Non-alcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, Etc. Class 45.

309,247. SUPERSTILE. Registered Jan. 9, 1934. Perey Manufacturing Company, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 9, 1954. Turnstiles and Like Passage-Controlling Gates of the Rotary Type. Class 23.

309,354. DAVIS DE LUXE. Registered Jan. 9, 1934. Western Auto Supply Company, Kansas City, Mo., a corporation of Missouri. Renewed Jan. 9, 1954. Non-Metallic Automobile Tires. Class 35.

309,501. BARBARA GOULD NUMBER THIRTY. Registered Jan. 16, 1934. Bourjois, Inc. Renewed Jan. 16, 1954, to Barbara Gould, Inc., New York, N. Y., a corporation of New York. Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Etc. Class 51.

309,503. GLAMOUR. Registered Jan. 16, 1934. Chanel, Inc. Renewed Jan. 16, 1954, to Bourjois, Inc., New York, N. Y., a corporation of New York. Perfume. Class 51.

309,617. WIZARD. Registered Jan. 23, 1934. Wizard, Inc., Chicago, Ill. Renewed Jan. 23, 1954, to Western Auto Supply Company, Kansas City, Mo., a corporation of Missouri. Touchup Paint Enamel. Class 16.

309,727. TAPATCO. Registered Jan. 30, 1934. The American Pad & Textile Company, Greenfield, Ohio, a corporation of Ohio. Renewed Jan. 30, 1954. Seat Cushions, Chair Cushions, Camping and Sleeping Equipment, Etc. Class 32.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

58,438. COLLEEN. Registered Dec. 18, 1906. David Brown & Son Limited, Donaghmore, Ireland. Soap. Class 52. (Formerly Class 4.) Corrected as follows: In the renewal certificate, lines 1 and 2, "McClintons Limited, of Donaghmore, Northern Ireland, a corporation of Northern Ireland" should be deleted and *McClinton's Limited, a corporation organized under the laws of Northern Ireland, located and doing business at Main Street, Donaghmore, County of Tyrone, Northern Ireland* should be inserted in lieu thereof.

90,645. LAUREL BRAND. Registered Mar. 11, 1913. The F. & R. Lazarus & Co., Columbus, Ohio. Men's and Women's Hosiery. Class 39. Amended as follows: In the statement, column 2, line 1, "men's and" is deleted.

308,574. SKYCHIEF. Registered Dec. 12, 1933. The Texas Company, New York, N. Y. Gasoline. Class 15. Amended as follows: In the statement, line 7, 'word "Skychief" ' is deleted and *words "Sky Chief"* is inserted in lieu thereof; and the drawing is amended to appear as follows:

Sky Chief

385,620. SWAN-SOFT. Registered Mar. 11, 1941. Chicopee Manufacturing Corporation, New Brunswick, N. J. Textile Diapers. Class 39. The drawing is hereby amended to appear as follows:

Swansoft

416,392. AJAX. Registered Sept. 11, 1945. The Ajax Metal Company, Philadelphia, Pa. Electric Furnaces. Class 21. Amended as follows: In the certificate, lines 2 and 16; in the heading and signature to the statement; and in line 1 of the statement, after "Company," *now by change of name Ajax Electro Metallurgical Corporation*, is inserted.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

572,031. ULTRA-VISCOSON. Registered Mar. 17, 1953. Rich-Roth Laboratories, East Hartford, Conn. Instrument Comprising a Probe and Electronic Computer, Etc. Class 26. New certificate under section 7(c) issued Nov. 10, 1953, to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 2

RECEPTACLES

Reg. No. 391,885. Registered Nov. 25, 1941. Owens-Illinois Can Company, Toledo, Ohio. Republished by Continental Can Company Inc., New York, N. Y., a corporation of New York.

Deconware

For Metal Boxes, Cans, and Receptacles of Various Shapes and Sizes.
Claims use since July 14, 1941.

CLASS 5

ADHESIVES

Reg. No. 440,412. Registered Aug. 31, 1948. Windsor-Lloyd Products, Inc., Philadelphia, Pa., a corporation of Delaware. Republished by registrant, present address Wilmington, Del.

WSC

For Adhesive Liquid Cement.
Claims use since Mar. 1, 1947.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 383,979. Registered Dec. 31, 1940. South Texas Cotton Oil Company, Houston, Tex., a corporation of Texas. Republished by registrant.

Longhorn

For Linseed Oil.
Claims use since May 24, 1940.

Reg. No. 423,245. Registered Aug. 27, 1946. South Texas Cotton Oil Company, Houston, Tex., a corporation of Texas. Republished by registrant.

Longhorn

For Turpentine.
Claims use since Aug. 23, 1941.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 385,013. Registered Feb. 11, 1941. American Tile and Rubber Company, Trenton, N. J., a corporation of Massachusetts. Republished by registrant.

AMTICO

For Rubber Tile Flooring.
Claims use since July 1, 1923.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 179,965. Registered Feb. 19, 1924. The Hudson Manufacturing Company, Minneapolis, Minn. Republished by H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota.

MODOC

For Sprayers and Parts Thereof.
Claims use since Feb. 1, 1913.

Reg. No. 181,403. Registered Mar. 18, 1924. The Hudson Manufacturing Company, Minneapolis, Minn. Republished by H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota.

IDEAL

For Sprayers and Parts Thereof.
Claims use since on or about Feb. 1, 1913.

Reg. No. 200,461. Registered June 30, 1925. The Hudson Manufacturing Company, Minneapolis, Minn. Republished by H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota.

FOG

For Portable and Hand-Operated Sprayers and Parts Thereof.
Claims use since on or about Oct. 1, 1922.

Reg. No. 218,858. Registered Oct. 5, 1926. Hudson Mfg. Company, Minneapolis, Minn. Republished by H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota.

CADET

For Portable and Hand-Operated Sprayers and Parts Thereof.
Claims use since May 1, 1926.

Reg. No. 219,937. Registered Oct. 26, 1926. Hudson Mfg. Company, Minneapolis, Minn. Republished by H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota.

SUNSHINE

For Portable and Hand-Operated Sprayers and Parts Thereof.
Claims use since Sept. 1, 1924.

Reg. No. 393,306. Registered Feb. 3, 1942. The Root Manufacturing Company, Cleveland, Ohio. Republished by Root Manufacturing Co., Chicago, Ill., a corporation of Ohio.



The words "America's Finest Dusters" and "Root" are disclaimed apart from the mark as shown.
For Machines and Devices for Applying Insecticides, Either Powder or Liquid, or Both, to Vegetation.
Claims use since on or about Feb. 1, 1941.

Reg. No. 419,078. Registered Feb. 5, 1946. Ampco Twist Drill Company, Jackson, Mich. Republished by Greenfield Tap and Die Corporation, Greenfield, Mass., a corporation of Massachusetts.

AMPCO

For Twist Drills, Reamers, Milling Cutters, Countersinks, and Combination Drills and Countersinks.
Claims use since Mar. 18, 1936.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 304,606. Registered July 11, 1933. Société Anonyme de la fabrique d'horlogerie Le Coultre & Cie, Le Sentier, Switzerland, a corporation of the Confederation of Switzerland. Republished by registrant.

LE COULTRE Co

For Watches, Watch Movements, and Parts Thereof.
Claims use since 1882.

Reg. No. 304,607. Registered July 11, 1933. Société Anonyme de la fabrique d'horlogerie Le Coultre & Cie, Le Sentier, Switzerland, a corporation of the Confederation of Switzerland. Republished by registrant.

LECOULTRE

For Watches, Watch Movements, and Parts Thereof.
Claims use since 1882.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 154,053. Registered Apr. 4, 1922. W. F. Hirschman Inc., Buffalo, N. Y. Republished by Hirschman-Pohle Company, Inc., Le Roy, N. Y., a corporation of New York.

EFFICO

For Ventilators.
Claims use since about 1915.

CLASS 37

PAPER AND STATIONERY

Reg. No. 291,297. Registered Feb. 9, 1932. Hampshire Paper Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

NOTARY BOND

The word "Bond" is disclaimed apart from the mark as shown.
For Writing and Printing Paper.
Claims use since June 9, 1931.

Reg. No. 304,765. Registered July 18, 1933. E. E. Lloyd Paper Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

Tradition Bond

The word "Bond" is disclaimed apart from the mark as shown.
For Writing Paper.
Claims use since Jan. 15, 1926.

CLASS 39

CLOTHING

Reg. No. 335,906. Registered June 16, 1936. Benjamin Cohen, New York, N. Y.

BENCONE

For Nurses' and Maids' Uniforms, Caps, Capes, Gowns, Leather Shoes, and Hosiery.
Claims use since Jan. 6, 1936.

Reg. No. 377,758. Registered May 14, 1940. Chevette, Inc., New York, N. Y. Republished by Circe Foundations, Inc., New York, N. Y., a corporation of New York.

Gay-Baby

For Panties, Panty Girdles, Girdles, Corsets, Slips, and Nightgowns.
Claims use since February 1939.

Reg. No. 389,392. Registered Aug. 5, 1941. Jack Diamond, Brooklyn, N. Y. Republished by registrant.

"The Doorway to A Man's World"

For Men's and Boys' Wearing Apparel—Namely, Hats, Dress and Sport Shirts, Pajamas, Lounging, Bath and Beach Robes, Neckties, Socks, Leather and Woolen Gloves, Mufflers, Scarfs, Raincoats, Jackets, Sweaters, Sport Coats, Leather Slippers, Belts, Suspenders, Slacks, Underwear, and Handkerchiefs.
Claims use since Dec. 15, 1940.

Reg. No. 443,998. Registered May 23, 1950. Cater Frock Company, New Braunfels, Tex., a corporation of Texas. Republished by registrant.

Cater

For Girls' Dresses, Suits, Sun Suits, Slacks, Pinafores, Sun Dresses, and Coats; Blouses, Skirts, Toddler Dresses, Infant Boy Dresses; Ladies' Dresses, Suits, Blouses, Coats, Skirts, and Slacks; Boys' Shirts, Suits, Trousers, and Sun Suits.
Claims use since Nov. 25, 1946.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 321,595. Registered Feb. 5, 1935. Hawaiian Canneries Company, Limited, Kapaa, Hawaii, a corporation of the Territory of Hawaii. Republished by registrant.

Liquid Sunshine

For Non-Alcoholic, Maltless Fruit Juice for Beverage Purposes.
Claims use since June 1, 1933.

Reg. No. 417,449. Registered Oct. 30, 1945. Dell Products Corporation, Newark, N. J., a corporation of New Jersey. Republished by registrant, present address East Orange, N. J.



The word "Sour" is disclaimed apart from the mark as shown.
For Fruit Flavored Non-Alcoholic Sirups, Concentrates, and Extracts for Beverage-Mixing Purposes.
Claims use since July 15, 1944.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 37,298. Registered Nov. 12, 1901. Thos. Kerfoot & Co., Ashton-Under-Lyne, England. Republished by Thomas Kerfoot & Co., Limited, Bardsley, England, a company of the United Kingdom of Great Britain and Northern Ireland.

SWEET LIPS

For Perfumed Lozenges.
Claims use since Jan. 1, 1891.

Reg. No. 300,404. Registered Jan. 17, 1933. Carmel Oil Co., New York, N. Y. Republished by Carmel Oil Co. Inc., Bronx, N. Y., a corporation of New York.

CARMEL BRAND

The word "Brand" is disclaimed apart from the mark as shown.
For Edible White Oil.
Claims use since Jan. 1, 1926.

Reg. No. 304,150. Registered June 20, 1933. Wm. Wrigley Jr. Company, Chicago, Ill., a corporation of Delaware. Republished by registrant.

WRIGLEY'S

The drawing is lined for red.
For Chewing Gum.
Claims use since Jan. 26, 1933.

Reg. No. 415,214. Registered July 31, 1945. Dell Products Corporation, Newark, N. J., a corporation of New Jersey. Republished by registrant, present address East Orange, N. J.



The representation of the container and the word "Sour" are disclaimed apart from the mark as shown.
For Concentrated Emulsion of Citrous Flavors Such as Lemon, Lime, and Orange for Flavoring Baked Goods, Ice Cream, and Food Specialties.
Claims use since July 15, 1944.

Reg. No. 420,307. Registered Apr. 2, 1946. South Texas Cotton Oil Company, Houston, Tex., a corporation of Texas. Republished by registrant.

Crustene

For Salad and Cooking Oils Made From Cotton Seed Oil.
Claims use since Oct. 13, 1937.

Reg. No. 426,103. Registered Dec. 17, 1946. South Texas Cotton Oil Company, Houston, Tex., a corporation of Texas. Republished by registrant.

crustene

For Oleaginous Compound Constituting a Shortening and a Substitute for Lard.
Claims use since Nov. 19, 1917.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Reg. No. 398,261. Registered Oct. 20, 1942. H. D. Hudson Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota. Republished by registrant, present address Chicago, Ill.

LO-BOY

The prefix "Lo" is disclaimed apart from the mark as shown.
For Hog Waterers.
Claims use since July 29, 1941.

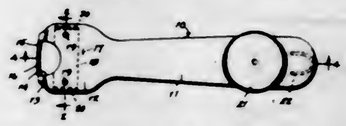
REISSUES

NOVEMBER 10, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,731
CROWN CAP REMOVING AND RETAINING IMPLEMENT

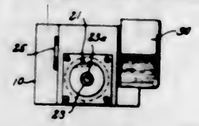
Jobby Belpedio, Bridgeport, Conn.
Original No. 2,593,091, dated April 15, 1952, Serial No. 180,778, August 22, 1950. Application for reissue January 21, 1953, Serial No. 332,582
6 Claims. (Cl. 81—3.1)



5. A cap removing and retaining implement for crown cap bottles, comprising a rigid body including a substantially flat horizontally disposed forward head portion adapted to be superimposed on a crown cap, a rigid handle portion exending rearwardly from said head portion, a depending rigid flange having a forward portion at the forward end of said head portion and side portions extending along each of its sides adapted to laterally enclose the rim of a crown cap at each side, said forward portion having an opening for receiving the rim of a crown cap with the underside of said head portion engaging the upper side of said cap, said opening having a lower edge adapted to engage the under side of said cap rim, and means laterally inwardly of said flange side portions cooperable with said cap to releasably retain it within the space defined by said head and flange portions upon removal from a bottle.

23,732
WORK HOLDER

Donald M. Cleveland, Geneva, N. Y., assignor, by mesne assignments, to Sundstrand Machine Tool Co., Rockford, Ill., a corporation of Illinois
Original No. 2,593,538, dated April 22, 1952, Serial No. 17,300, March 26, 1948. Application for reissue August 12, 1953, Serial No. 373,929
6 Claims. (Cl. 90—59)



6. A work support comprising: an upright post having a longitudinal bore extending through one end of said post and a transverse bore intersecting said longitudinal bore; an elongated bar mounted within said longitudinal bore and having an end extending beyond said end of the post, said end being provided with a work engaging member; a spring mounted within the longitudinal bore and engaging the other end of said bar normally to urge the bar outwardly of the post; a locking rod slidably mounted in said transverse bore of the post, said rod having a curved recess in its side defining a clamping surface adapted to engage the lateral surface of said bar; and means for moving said rod endwise in the transverse bore to draw said clamping surface tightly against said lateral surface to clamp said bar between the clamping surface and the post.

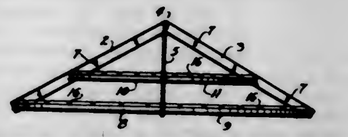
23,733
FRACTURING FORMATIONS IN WELLS

Riley F. Farris, Houston, Tex., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
No Drawing. Original No. 2,596,843, dated May 13, 1952, Serial No. 136,395, December 31, 1949. Application for reissue May 12, 1953, Serial No. 354,668
27 Claims. (Cl. 166—21)

24. The method of increasing the productivity of a formation penetrated by a well, which method comprises introducing low-penetrating fluid into a confined zone of said well at a rate sufficient to increase the pressure exerted in said confined zone by said low-penetrating fluid until a formation fracture is indicated by a decrease in resistance to flow of said low-penetrating fluid into said formation, continuing the pumping of said low-penetrating fluid into said formation after a fracture is indicated to displace at least a part of said low-penetrating fluid into passages formed in the formation, pumping additional fluid into the well as a follower for said low-penetrating fluid in said confined zone, contacting said low-penetrating fluid and a solvent therefor in an amount and for a time sufficient to reduce substantially the viscosity of said low-penetrating fluid in said passages and thereby prevent clogging of said passages and producing said well to remove the liquid of reduced viscosity from said passages.

23,734
CANOPY CONSTRUCTION

Samuel R. Kerman and Meyer Harrison, Pittsburgh, Pa., assignors, by mesne assignments, to Keolvent Metal Awning Corporation of America, Pittsburgh, Pa., a corporation of Pennsylvania
Original No. 2,585,256, dated February 12, 1952, Serial No. 772,302, September 5, 1947. Application for reissue December 2, 1952, Serial No. 323,738
8 Claims. (Cl. 20—57.5)

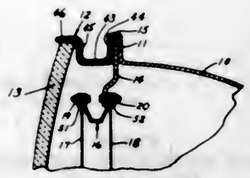


6. A metal canopy construction comprising an inverted V-shaped frame constructed to rest against a flat wall of a building, a series of semicircular supports arranged at different levels extending from one leg of the V-shaped frame to

the other leg of the frame and secured to the frame at each end, and a canopy covering the semi-circular supports comprising a series of upwardly-converging alternately-turned overlapping lower and upper channel-shaped louvres both attached to the semi-circular supports with cleats.

23,735
GRID MOUNTING FOR COLOR TELEVISION PICTURE TUBES
Raymond G. Olson, Niles, Ill., assignor of one-half to Kenneth T. Snow, Oak Park, Ill.
Original No. 2,635,205, dated April 14, 1953, Serial No. 259,771, December 4, 1951. Application for reissue July 6, 1953, Serial No. 366,402
5 Claims. (Cl. 313—85)

1. In a color television picture tube comprising a grid having color receiving phosphors, an optical grid, means mounting said color grid and said optical grid in spaced apart relationship, means for stretching said grids, said means for stretching the grids including an outwardly opening V-shaped channel member positioned between and extending around the peripheries of said grids.



PLANT PATENTS

GRANTED NOVEMBER 10, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,226
ROSE PLANT
Alfred Krebs, Montebello, Calif., assignor of one-half to Edward E. Marsh, Pasadena, Calif.
Application January 17, 1949, Serial No. 71,347
1 Claim. (Cl. 47—61)

The new and distinct variety of bush rose plant as described and illustrated, characterized by its small bloom, its substantial constancy of magenta color from bud to full open bloom, and further characterized by its extremely vigorous growth and its abundant continuous blooming, and having as its parentage a Cecile Brunner rose crossed with an unknown variety of rose plant.

1,227
ROSE PLANT
Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Company, Richmond, Ind., a corporation of Indiana
Application October 20, 1952, Serial No. 315,856
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized particularly as to novelty by its improved and more abundant production of blooms per plant, by the longer bud form of its blooms, by the distinctive color of its open blooms varying in general color tonality from Neyron Rose in the newly open flower to Rose Madder in the 3-days open flower, by the distinctive and strong tea fragrance of its open flowers, and by the improved mid-winter opening habits of its flowers and the absence of "bull-heading" thereof in mid-winter.

1,228
PEACH TREE
Howard C. Peterson, Reedley, Calif.
Application October 7, 1952, Serial No. 313,621
1 Claim. (Cl. 47—62)

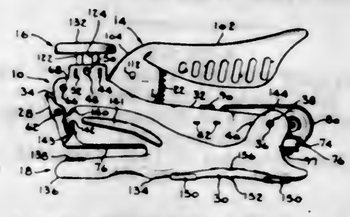
A new and distinct variety of peach tree, substantially as described and illustrated, bearing freestone fruit of generally light orange-yellow to salmon-orange color having splotches over extensive areas of scarlet red to nopal red and of the general shape of the Rio Oso Gem but more symmetrical and ripening about six weeks earlier, characterized by early coloring during maturation permitting picking for shipment in durable condition prior to full ripening; having flesh varied in color from light orange-yellow to capucine yellow prominently streaked with scarlet red when mature similarly to the Kim Elberta but more brilliantly and ripening about one week earlier than the Kim Elberta; and blossoming at approximately the same time as the Kim Elberta with blossoms about two-thirds as large and less widely opened.

PATENTS

GRANTED NOVEMBER 10, 1953

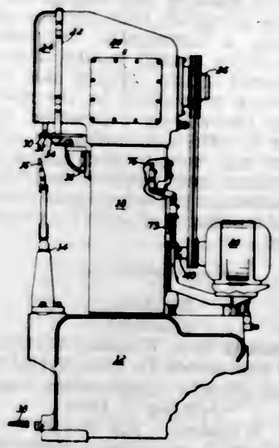
GENERAL AND MECHANICAL

2,658,197
STAPLING MACHINE
William G. Pankenin, Chicago, Ill.
Application June 5, 1950, Serial No. 166,190
37 Claims. (Cl. 1—3)



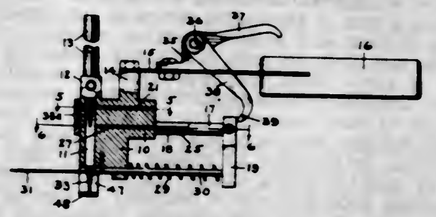
1. In a plier type stapler having an operating handle pivotally mounted at one end and provided with an anvil-supporting end, a support for desk operation of said stapler comprising a member the central part of which is pivoted to said handle to permit said member to be swung from plier type position longitudinally of said handle to desk type position transversely of said handle, said member being shaped to rest against said handle when positioned in plier type position to provide a portion easily gripped by the fingers when said stapler is used as a plier type, said member in said desk type position extending to each side of said handle to provide support for and maintain said stapler in an upright position on a flat surface when said stapler is used for desk type operation.

2,658,198
FASTENING INSERTING MACHINE
Frank R. Thresh, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 24, 1952, Serial No. 311,251
5 Claims. (Cl. 1—30)



1. In a fastening inserting machine having means for progressively operating upon a work piece to insert therein a series of fiber pegs, said means including strand feeding mechanism, a driving throat operatively associated with said mechanism first to receive a length of fiber strand and then to shear the strand to form a peg, a driver operatively associated with said throat for driving the peg from out the throat into a peg receiving hole in the work piece, and an awl operative first to punch said hole and then to feed the work so as to position the hole beneath the driver and throat, the combination of an enclosed head housing having an outer front face plate portion, a clutch operated power cam shaft supported within said housing and axially extending fore and aft in the machine, a series of conjugate power cams and cam operated levers directly associated with the cam shaft, a series of operating shafts mounted in said housing for radial rocking movement, each of said operating shafts being linked within the head housing to one of the cam operated levers and having a forward shaft end extending outward through the front face plate portion of the housing, and movable connections between each of said forward shaft ends and one of said operating means whereby a periodic rocking movement imparted by the cams to each operating shaft is transmitted respectively to each one of said operating means to thereby actuate the means in time relation to each other.

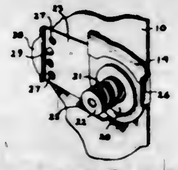
2,658,199
SCREW FEEDER AND HOLDER
William T. H. Ayers, Indianapolis, Ind.
Application April 4, 1951, Serial No. 219,300
5 Claims. (Cl. 1—49.8)



1. A screw dispensing device comprising a body having a passageway normally vertically disposed confining screws to end to head abutment and down which the screws may slide to a lower discharge end; a pair of spaced apart fingers having free ends shiftable across said passageway, the spacing of the fingers being less than the diameter of the heads of said screws and sufficient to allow the screw shanks to enter freely therebetween; a second pair of fingers shiftable across said passageway at a zone below said first fingers, the second pair of fingers having free ends shiftable across said passageway and being spaced apart a distance less than the diameter of said screws but sufficient to allow the shanks of the screws to enter freely therebetween; a third pair of fingers extending from said body in fixed positions by one set of free ends, below said discharge end of the passageway,

spaced apart one from the other horizontally less than the diameter of the heads of said screws, but sufficient to allow the shanks of the screws to enter freely therebetween; a push rod reciprocable between said third pair of fingers; means maintaining said first and second pairs of fingers to have opposing ends in vertically disposed overlapping arrangement to have the end portions of one pair enter said passageway before the end portions of the other pair leave that passageway; and means shifting said first and second finger pairs and said push rod in unison in the order of said first pair of fingers being moved to have their ends withdrawn from said passageway after said second pair of fingers enter by their ends and traverse the passageway, and said push rod travels between said third pair of fingers away from said discharge end; said maintaining means comprising a crosshead to which said first pair of fingers are fixed by outer end portions, a head to which said second pair of fingers are fixed by their outer end portions, said crosshead and said head being on opposite sides of said body, and said fingers being slidably guided in said body, and rigid tie means between and spacing apart said crosshead and said head.

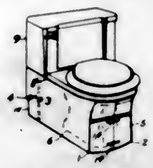
2,658,200
ADJUSTABLE STOP FOR PIVOTALLY MOUNTED HEAD PROTECTIVE EQUIPMENT
Charles E. Bowers, Sr., Moylan, Pa., assignor to The Fibre Metal Products Company, Chester, Pa., a corporation of Pennsylvania
Application September 22, 1951, Serial No. 247,803
5 Claims. (Cl. 2—8)



1. In a piece of pivotally mounted head protective equipment including a headgear member having a pair of anchoring straps at the opposite sides thereof and a face covering member pivotally mounted on said anchoring straps by a pair of pivot bolts, the improvement consisting of an adjustable stop member pivotally mounted on one of said bolts and having a pair of abutment flanges angularly spaced apart and each of which is adapted to engage a side edge of one of said anchoring straps, the said stop member being provided with a plurality of apertures, and means on said face covering element in cooperation with said apertures for holding said stop in an adjusted position relative thereto.

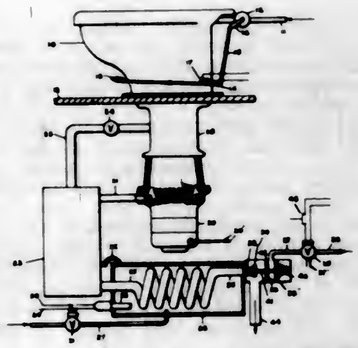
2,658,201
FIXTURE CASING
Yorke Sherwood, Los Angeles, Calif.
Application February 2, 1950, Serial No. 142,018
1 Claim. (Cl. 4—1)

In a casing for water closets having a flushing bowl with a perforated seat resting upon the top thereof and having a water hopper to the rear and above the seat; the casing comprising a pair of complementary parts which completely shield all parts of the water closet below the seat thereof, means at the front of the casing for latching the parts together, the casing having a top front edge and a bottom edge which is set inwardly with respect to the top edge so as to provide toe room, the casing having side walls which have their lower rear edges cut away to neatly conform with a baseboard and the like



of a room, and one of the side walls having an opening near its rear portion to accommodate the handle of a water valve which controls the water to the hopper of the water closet.

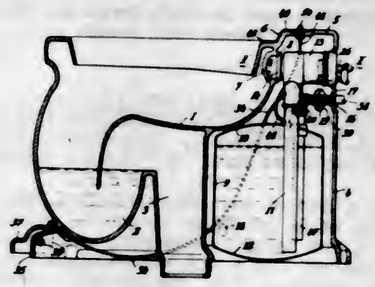
2,658,202
SANITARY WASTE TREATMENT AND DISPOSAL FOR VEHICLES
Abel Wolman and William A. Haslett, Baltimore, Md.
Application September 29, 1948, Serial No. 51,692
8 Claims. (Cl. 4—8)



1. In a vehicle toilet, the combination of a toilet hopper, a grinder chamber into which the contents of the hopper are discharged, means in the grinder chamber for macerating the wastes received from the toilet hopper, a storage tank into which the macerated wastes pass from the grinder, a heating chamber receiving the macerated wastes from the storage tank, said heating chamber having a normally closed discharge valve and means for heating the macerated wastes to a temperature at which they become pathogenically harmless, a thermostat responsive to the temperature of the heated wastes, means responsive to the speed of the vehicle, said thermostat and said means responsive to the speed of the vehicle being operatively connected to the discharge valve to effect the opening of said discharge valve and permit the discharge of the macerated wastes from the heating chamber only when the wastes are pathogenically harmless and the vehicle is moving at or above a predetermined rate of speed.

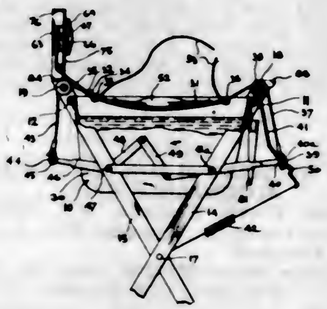
2,658,203
CLOSET
Johann Aue, Vienna, Austria
Application September 24, 1951, Serial No. 248,053
Claims priority, application Austria October 7, 1950
5 Claims. (Cl. 4—26)

1. A closet which comprises a closet bowl having a catch basin and a downwardly open chamber disposed behind said basin, an air receiver consisting of a pressure vessel provided in said chamber, means connecting said pressure vessel to a water supply line, a flushing spout having an open end in said chamber, a riser pipe in said pressure vessel, said riser pipe having an outlet adjacent to and in register with said open end of the flushing spout, a packing ring betweeen said outlet of the riser pipe and said open end of the flushing spout, a spring bearing on the one hand against



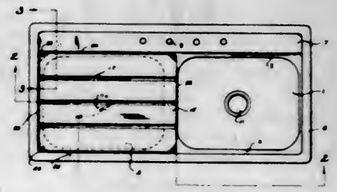
the rear wall of said chamber behind the outlet of the riser pipe and on the other hand against said riser pipe to urge said outlet of the riser pipe into sealing engagement with said packing ring and to urge the latter into sealing engagement with said open end of said spout, a flushing valve at the top of said riser pipe, and means movable at right angles to the axis of said riser pipe to control said flushing valve.

2,658,204
BATHTUB
George B. Hansburg, Walker Valley, N. Y.
Application June 13, 1949, Serial No. 98,687
5 Claims. (Cl. 4—177)



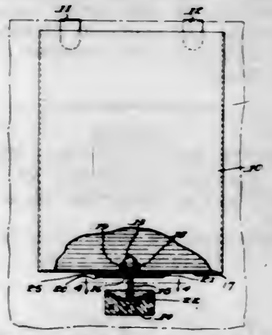
1. The combination with a tub body of a frame in which the tub is supported, a platform device within the tub, flexible straps attached to the front of the platform device and carried over the front of the tub, flexible straps attached to the rear of the platform device and carried over the rear of the tub, a front bail to which the front straps are attached, a rear bail to which the rear straps are attached, linkages connecting the bails so they rise and fall together, a weighing device on the frame behind the tub, means for supporting the rear of the platform by the weighing device, and a holding device adapted to hold the platform in one position to support the platform by all the straps and to hold the platform in another position to relieve the rear straps of load and to support it by the front straps and by said means for supporting it by the weighing device.

2,658,205
DRAINBOARD
William H. Bowden, Alliance, Ohio, assignor to Alliance Ware, Inc., Alliance, Ohio, a corporation of Ohio
Application October 5, 1949, Serial No. 119,694
4 Claims. (Cl. 4—189)



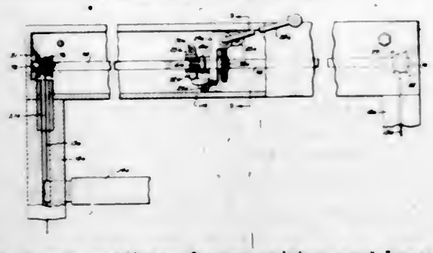
1. A rectangular porcelain-coated sheet-metal drainboard adapted to be slidably mounted on a sink, having at each corner a bumper-glider on which it is adapted to slide, one corner of the bumper-glider extending beyond the adjacent side of the drainboard and another corner of the bumper-glider extending beyond the adjacent end of the drainboard.

2,658,206
TOILET BOWL FLUSH TANK DEODORIZER
José Rafael Martinez, Miami, Fla.
Application October 26, 1950, Serial No. 192,165
1 Claim. (Cl. 4—228)



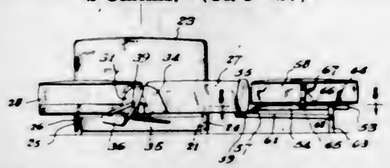
A flush tank deoderant container comprising a casing having suspended clips on the upper end and an opening in the bottom with a tube having a valve seat in the upper end positioned around the opening and extended upwardly into the casing, a vertically disposed stem extended through the opening and having a ball on the upper end and an arcuate disc on the lower end, said ball on the upper end of the stem positioned to coact with the valve seat in the upper end of the tube in the casing, a sealing washer positioned against the under surface of the bottom of the casing and extended around the said opening, a ring having an annular flange thereon secured to the under surface of the casing and engaging the periphery of the washer to retain the same in position around the said opening, and a float carried by the said arcuate disc on the lower end of the stem and positioned to carry the stem and arcuate disc upwardly with the peripheral edge of the arcuate disc in engagement with the sealing washer within the ring to close the opening in the bottom of the casing.

2,658,207
BABY CRIB MATTRESS ELEVATOR
Jesse J. Robbins, Glendale, Calif., assignor to Stylofede Corporation, a corporation of California
Application January 4, 1950, Serial No. 136,762
9 Claims. (Cl. 5—11)



9. A crib mattress frame raising and lowering mechanism comprising, a bracket adapted for mounting on the headboard of a crib substantially centrally of the length thereof, an elongated drive shaft carried for rotation by said bracket and projecting from the opposite sides thereof with the opposite ends of said shaft disposed in overlying relation to the corner posts of said crib, a drum mounted on each of said shaft ends for rotation therewith, cables carried by said drums and adapted for connection to said frame for effecting vertical displacement thereof upon rotation of said drums, gear means carried by said bracket and connected to said shaft for effecting its rotation, stop means limiting the rotation of said shaft in a frame lowering direction to a desired lowermost position of said frame, a crank having a detachable drive connection to said gear means, and means automatically effecting a decoupling of said drive connection between said crank and said gear means upon rotation of said crank to effect rotation of said shaft to said stop means.

2,658,208
COUCH-BED CONSTRUCTION
Edward J. Stauffer, Naperville, Ill., assignor to Kroehler Mfg. Co., Naperville, Ill., a corporation of Illinois
Application March 8, 1950, Serial No. 148,309
2 Claims. (Cl. 5—27)



1. In a bed convertible parlor couch which includes an upholstered seat cushion frame and a seat cushion removably supported thereon, the combination of depending brackets mounted at the forward ends of said seat cushion frame, a steel framework having frame portions pivotally connected to said bracket and arranged to pivotally swing relative to said cushion frame into retracted or extended position, said framework when in retracted position reposing beneath said seat cushion frame and when in extended position being adapted to support thereon said seat cushion, lash studs carried on said frame portions, belt strap elements having the ends thereof sewn to said seat cushion adjacent the upper and lower edges thereof and lash rings engaged with said belt strap elements and engageable with corresponding lash studs when said seat cushion is supported on said framework so as to apply a retaining tension upon said seat cushion for maintaining the same against inadvertent dislodgement.

2,658,209
SELF-TILTING BED
Don Carlos Travis, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a corporation of Delaware
Application April 16, 1947, Serial No. 741,870
15 Claims. (Cl. 5—66)



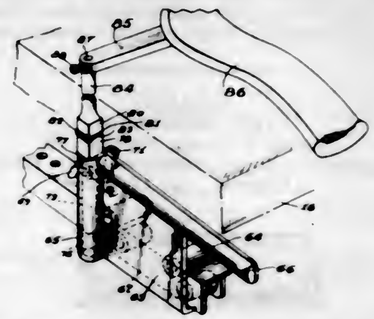
1. In a bed of the class described, the combination of a generally horizontal supporting frame, a bed bottom comprising a back section, a seat section, and a foot section hinged together at their abutting ends, upstanding brackets on said frame provided at their upper ends with pivotal connections for said bed-bottom back section at points on said back section materially headward from the hinged connection of said back and seat sections, means on said frame adjustably supporting said seat and foot sections to permit the relative angular disposition of said sections, means normally urging said back section upwardly, a notched segment secured to said back section coaxially of said pivotal connection of said back section on one of said brackets, a pawl pivoted on said one bracket and normally urged to engage said notched segment for locking said back section in any one of several angular positions, an upwardly-disposed arm pivoted concentrically with said pawl, co-acting pin-and slot-means securing said pawl and arm for unison movement, and a handle secured to said arm and extending upwardly above said bed bottom sections, said handle being engageable with said bracket after said pawl is disengaged from said segment whereby said handle serves as a brace against which the bed occupant may exert force to effect a shifting of said sections.

2,658,210
STOP MECHANISM FOR SECTIONALLY ADJUSTABLE BEDS
Don Carlos Travis, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a corporation of Delaware
Application March 25, 1949, Serial No. 83,475
3 Claims. (Cl. 5—68)



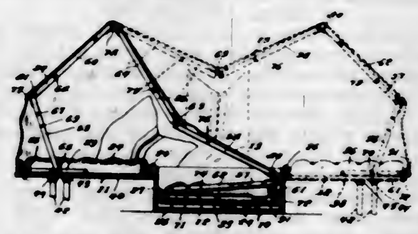
2. In a bed of the class described, the combination of a support structure, a bed bottom structure hinged on said support structure for swinging movement relative thereto, stop means movably connected to one of said structures and urged to a position thereon to abut the other of said structures when said bed bottom structure occupies a predetermined position relative to said support structure, thereby to prevent downward movement of said bed bottom structure below said predetermined position, said stop means being manually shiftable to a non-abutting position to permit said bed bottom structure to be lowered below said predetermined position, latch means interposable between said one structure and said stop means and being connected to at least one of them, said latch means when so interposed serving to hold said stop means in said non-abutting position, one of said means being engageable by said other structure to disable said latch means when said bed bottom structure is moved below said predetermined position, thereby to permit said stop means to resume said abutting position when said bed bottom structure is subsequently raised above said predetermined position.

2,658,211
ARMREST FOR BEDS
Sadie Bendersky, South Orange, N. J.
Application February 15, 1944, Serial No. 522,426
2 Claims. (Cl. 5—92)



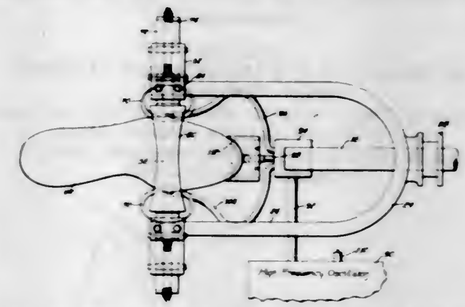
1. An arm rest assembly adapted to be used in conjunction with a bed comprising a body supporting portion and a rail; said arm-rest assembly comprising a mounting section, means securing said mounting section to said rail, a post, an extension arm swingably secured to one end of said post for movement about a vertical axis, means for securing said extension arm fixedly in adjusted position on said post, an arm rest carried by said extension arm, and horizontal pivot means securing the other end of the post to said mounting section, for pivotal movement of the post about an axis parallel to said rail, the construction and arrangement being such that the arm rest may be located in operative position over said body supporting portion or swung to inoperative position under said body supporting portion.

2,658,212
UNIVERSAL TRAILER SLEEPING UNIT
Harold J. Green, West Branch, Mich.
Application December 8, 1949, Serial No. 131,849
2 Claims. (Cl. 5—113)



1. A trailer sleeping unit comprising an elongated rectangular shaped casing, a cover having a mattress therein hinged to one side of the casing and mounted for movement into and out of a closed position on the upper end of the casing, said cover being mounted for swinging movement about a horizontal axis, a tray having a mattress therein removably hinged to one side of the casing and being slightly smaller than the casing to facilitate being positioned in the casing, a canvas covering, a plurality of hinged struts hinged to the inner surfaces of the cover and tray positioned to fold into the casing between the cover and tray and also positioned to be opened to upwardly extended positions for supporting the covering above the cover and tray with the cover and tray extended, hooks providing braces supporting the struts in upwardly extended positions, rods connecting the struts providing supporting means for the struts and covering, and means supporting the cover and tray in outwardly extended positions.

2,658,213
HIGH-FREQUENCY SOLE ATTACHING
George T. Hart, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 22, 1948, Serial No. 56,009
13 Claims. (Cl. 12—33.2)

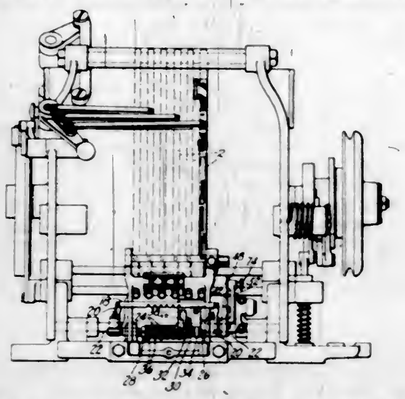


11. In a machine for attaching soles to shoes by the application thereto of a high-frequency electric field, a support for an inverted shoe, a toe-crease-entering electrode, a forked carrier for a concave shoe-bottom-engaging electrode roll, said carrier being movable longitudinally of said shoe and to tilt laterally thereof, and crease-engaging electrodes for opposite sides of the shoe yieldably mounted on said carrier to follow the opposite side creases of a shoe.

2,658,214
CORD CLAMP FOR SHOE UPPER LACING MACHINES
Robert L. Bradley, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 13, 1952, Serial No. 271,364
4 Claims. (Cl. 12—69.5)

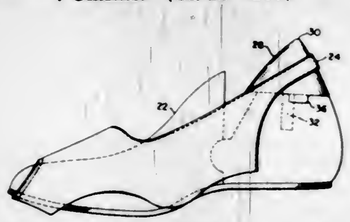
1. A machine for lacing eyeletted shoe uppers, having a plurality of lacing mechanisms arranged to form and tighten simultaneously a series of lacings from separate lengths of cord passing through the eyelets and across the edges of an upper, including means for supplying cords to the lacing mechanisms and a cord clamp between the lacing mechanisms and the cord supply means, comprising a set of washers between which cords for the lacings pass, a slider arranged to apply pressure to said set of washers, a rod on which the washers are movable towards and from each other to grip and release the cords passing between them, and means acting on the slider to cause all of the

washers to be compressed together as the lacings are being tightened, in combination with an index member operatively connected to the



washer compressing means acting on the slider to delay or accelerate the action of said washer compressing means in accordance with the total thickness of cords disposed between the washers.

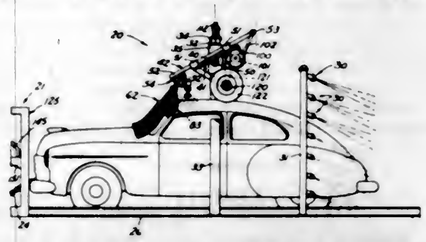
2,658,215
METHOD AND APPARATUS FOR LASTING OPEN-TOE SHOES
Pasquale Pepe, Everett, Mass., assignor of one-half to Myer Itzkowitz, Malden, Mass.
Application June 21, 1951, Serial No. 232,703
7 Claims. (Cl. 12—107)



4. A tool for lasting strap back shoes comprising a block of generally triangular shape having a base portion and an apex, the block having a sloping contour from apex to base, and means for positioning the block on the heel portion of a last comprising a pin projecting downwardly from the base and adapted to be received in the spindle hole in the last, said block having depending ears to embrace the sides of the last for positioning the block against rotation.

2,658,216
AUTOMATIC CAR WASHER
David Robert Shusett, Beverly Hills, and Mischa N. Berezny, Huntington Park, Calif.; said Berezny assignor to said Shusett
Application September 17, 1949, Serial No. 116,234
11 Claims. (Cl. 15—21)

6. In an automatic car washer having a fixed path of travel along which a car may be advanced, a plurality of closely spaced scrubbing members arranged side by side opposite a surface of a car advancing along said path of travel, each of said scrubbing members comprising an arm having a relatively soft, flexible scrubbing pad attached at a free end thereof, mounting means supporting said arms from their rearward ends side by side in close spaced substantially parallel planes which longitudinally intersect a car on said path and which are longitudinally disposed with respect to said path, said mounting means including pivot means mounting the arms for independent pivotal action in said parallel longitudinal planes, spring means yieldingly urg-



ing said arms inward toward the surface of a car on said path, whereby said pads are engaged by said surface, and means for reciprocating the rearward ends of said arms along direction lines substantially longitudinal of said path of travel.

2,658,217
LINT REMOVER
Marvin T. Green, Chicago, Ill.
Application June 1, 1950, Serial No. 165,537
4 Claims. (Cl. 15—104)



1. A cleaning implement, comprising an open receptacle, opposite end portions of the sides of the receptacle being shouldered and the receptacle opposite end portions reduced in width with relation to the receptacle sides, those portions of the receptacle sides intermediately of the shoulders forming hand gripping means, a cleaning means retained in the receptacle and extended therefrom, and a cover having top, end and side walls, intermediate portions of the side walls being cut away and the remainders thereof and its end walls being engageable over the width reduced opposite ends of said receptacle terminating adjacent the shouldered opposite end portions of the receptacle sides and over the extended portion of said cleaning means, and exposing said hand gripping means entirely throughout the areas thereof.

2,658,218
FOUNTAIN-TYPE SURFACE WASHING AND WIPING SPONGE
Eugenio C. Carreiro, Cambridge, Mass.
Application October 16, 1950, Serial No. 190,379
1 Claim. (Cl. 15—130)

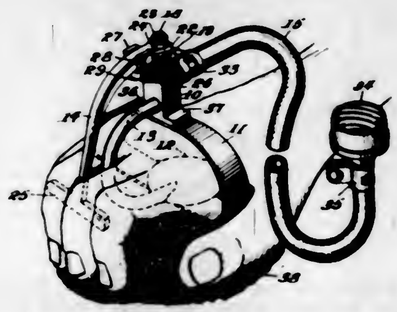
A fountain-type surface sponging device comprising, in combination, a composite head construction embodying a rigid endless frame, a sponge corresponding in shape to said frame, the inward half portion of said sponge fitting telescopically within the marginally encircling confines of and being secured to said frame, the outward half portion of said sponge projecting forwardly beyond the cooperating forward portions of said frame, a sponge rubber filler block of a marginal shape conformable with and having a portion fitted telescopically within said frame and secured to the latter, the inward surface of said sponge being flat and the forward surface of said filler block being flat and abutting said

inward surface, the entire exposed rearward surface of said filler block being coated with a waterproof compound, the said filler block having a water intake passage extending therethrough and communicating with said sponge and also having an outstanding integral neck-like extension in



communication with said passage, an internally screw-threaded ferrule joined with said extension and in registration with said passage, and a rigid hollow handle having a screw-threaded end portion screwed into said ferrule, whereby to provide a flexible joint between said handle and head construction.

2,658,219
FINGER CONTROLLED SPONGE COVERED SPRAY HEAD
Charles W. Torbert, Oklahoma City, Okla.
Application June 11, 1951, Serial No. 230,915
2 Claims. (Cl. 15—130)



1. A device of the character described for use by both right and left handed persons, comprising a band shaped to form a loop and adapted to receive the fingers and body portion of a hand, a vertically disposed valve body mounted on and extended upwardly from the top of said loop, transverse flanges on the bottom of said valve body secured to the upper surface of said loop, said valve body being provided with a vertically disposed chamber, a valve seat positioned at the lower end of said chamber, an arcuate conduit extending from said valve seat and communicating with said chamber, a spray head secured to said band and communicating with said conduit, a sponge arranged contiguous to the lower surface of said head, a valve positioned in the lower end of said chamber and mounted for movement into and out of bridging relation with respect to said valve seat, a vertically shiftable valve stem having its lower end secured to said valve, a bushing threadedly engaging the top of said valve body and provided with a central opening for slidably receiving said stem, a coil spring positioned in said chamber and interposed between said valve and bushing, a lug extending forwardly and upwardly from said valve body, a pair of spaced, parallel, vertically disposed ears extending upwardly from said lug and provided with registering apertures, an actuating lever extending downwardly from said valve body and adapted to extend between the fingers of the user, a pin passing through said registering apertures and pivotally connecting said lever to said ears, the rear end of said lever being bifurcated to provide a fork, said fork receiving said stem therein, securing elements arranged in threaded engagement with the upper end of said stem above said fork, a bar extending transversely with respect to the lower front end of said lever and adapted to be placed beneath the user's fingers, and a nipple extending rearwardly from said valve body and adapted to be connected to a source of supply of water, said lever being arranged in alignment with and above said conduit whereby said lever and conduit both extend through the same space between the fingers.

2,658,220
DISH MOP
Laura I. Chapman, Patten, Maine
Application January 16, 1951, Serial No. 206,261
4 Claims. (Cl. 15—209)

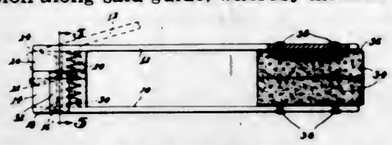


1. A utensil cleaning mop comprising an elongated handle member, a resilient chain formed of a plurality of flat, flexible rings, adjacent rings of said chain looped one within the other, the end rings of said chain each including a tab integral therewith and extending outwardly therefrom, the portions of said end rings from which said tabs extend positioned on one end of said handle member in opposed relation and with said tabs extending outwardly from said handle member, and means fastening said end rings to said one end of said handle member.

2,658,221
DEVICE FOR MANUAL CLEANING OF VENETIAN BLIND SLATS
Ida J. Nicoll, Framingham, Mass.
Application October 28, 1950, Serial No. 192,650
4 Claims. (Cl. 15—244)

1. Apparatus for cleaning strip elements, comprising two relatively rigid arms, a cleaning pad element mounted on one end portion of each arm, means hingedly connecting the arms together at their other ends whereby the arms are

movable about the said hinge connection to move said pads toward each other, said hinge connection comprising an elongated guide on at least one of said arms and a pivot means engaging in said guide and relatively movable there along in response to forces applied in directions urging the hingedly connected ends of the arms toward each other, and a spring at said hinge connection biasing the hingedly connected ends of the arms apart and biasing said pivot element in one direction along said guide, whereby manual pres-



sure applied to said arms in directions to move the arms toward each other effects movement of the hingedly connected ends of said arms towards each other simultaneously with movement of said cleaning pad elements toward each other into engagement with a strip element which is to be cleaned, said arms being relatively movable about said pivot means when the arms are relieved of manual pressure so that the arms can respond to the biasing effect of said spring.

2,658,222
YIELDABLE WIPING IMPLEMENT
John J. Mackert, Detroit, Mich.
Application February 20, 1948, Serial No. 9,813
3 Claims. (Cl. 15—245)



1. In a wiping implement of the character described, an elongated handle, an implement head having a wiper blade adapted for wiping engagement with a window pane or the like, a resilient shank connecting said head to one end of the handle and resiliently supporting the head relatively to the handle, and said implement head having socket means rigidly, detachably and nonturnably receiving one end of said shank whereby said head is detachably supported rigidly on said shank end and coplanar therewith.

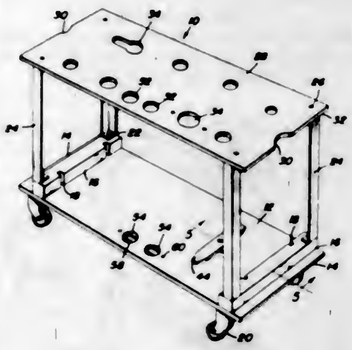
2,658,223
WIPER BLADE FOR CURVED WINDSHIELDS
Samuel H. Enochian, Kenmore, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application March 28, 1951, Serial No. 218,048
11 Claims. (Cl. 15—245)

1. A windshield wiping blade comprising an elastic squeegee body having a wiping edge, a channeled holder receiving the squeegee body for receding motion, and body distending means arranged within the holder channel and having terminal parts connected to the opposite ends of the body and a medial portion providing resilient support for the intermediate portion of



the body and acting in response to a receding movement of such intermediate portion into the holder to move the terminal parts further apart to increase the tension on the body lengthwise for accordingly increasing the firmness of contact of the wiping edge with the surface being wiped.

2,658,224
VACUUM CLEANER CART
Roland K. Brown, Dalhart, Tex.
Application November 30, 1949, Serial No. 130,170
5 Claims. (Cl. 15—257)

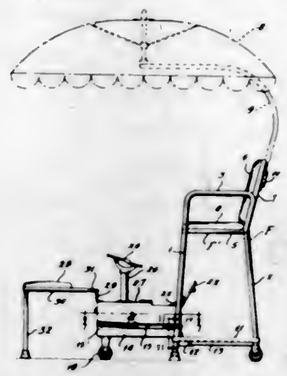


1. A movable cart for retaining a tank-type vacuum cleaner having side guard rails and attachments therefor comprising substantially rectangular elongated base and top panels, said top panel including longitudinally spaced apertures adjacent the longitudinal edges thereof and adapted to receive attachments, standards interconnecting said panels adjacent their corners, caster wheels carried by said base panel adjacent its corners, a bar pivoted intermediate its ends to said base panel for movement in a horizontal plane and adapted when moved in a substantially transverse position to overlie the guard rails of the vacuum cleaner, and transverse blocks secured on said base panel adjacent its ends including transversely spaced longitudinally aligned slots for receiving the end portions of said guard rails.

2,658,225
SHOESHINE STAND
Henry Bascom, St. Louis, Mo.
Application March 27, 1950, Serial No. 152,081
2 Claims. (Cl. 15—265)

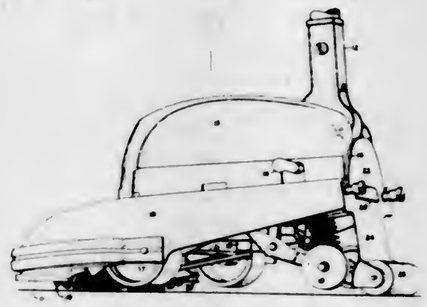
1. A shoe-shining stand comprising a stool frame, a box slidingly connected to said frame and having independent rolling support, a pair

of foot-rests mounted on said box, and means on the box in cooperative relation with the frame



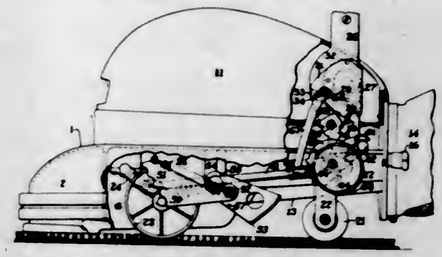
for raising the front of the frame when the box is moved into close relationship with the frame.

2,658,226
FLOOR POLISHING ATTACHMENT FOR SUCTION CLEANERS
Nelson W. La Briere, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 3, 1949, Serial No. 96,894
3 Claims. (Cl. 15—328)



1. In a suction cleaner having front and rear wheels for supporting it for ambulatory movement, a downwardly facing suction nozzle, a power transmitting belt extending into said nozzle, an exhaust port at the rear thereof, and a rotary agitator normally supported in said nozzle, that improvement which comprises, a large diameter polishing brush rotatably supported in said nozzle in place of said agitator, said brush being formed to be driven by said power transmitting belt, and being of sufficient diameter and of sufficient stiffness to support said front wheels above the surface to be polished, a louvered closure plate for said exhaust port, said closure plate having a portion extending downwardly below said exhaust port towards said rear supporting wheels and an auxiliary non-marring support attached to said downward extending portion for supporting said rear wheels out of contact with the surface being polished.

2,658,227
NOZZLE ADJUSTMENT FOR SUCTION CLEANERS
Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application March 16, 1948, Serial No. 15,067
8 Claims. (Cl. 15—358)



1. A suction cleaner comprising; a body including a nozzle; wheels for supporting said body for movement over a surface with said nozzle positioned at a selected distance above said surface; attaching means for movably securing said wheels to said body; a handle movably attached to said body for propelling said body over said surface; a latch for locking said handle in a vertical storage position; surface gauging means carried by said body so as to be movable into contact with said surface; selector means movably carried by said body and constructed to be positioned by said gauging means; manually actuatable latch release means movably mounted on said body and engageable with said latch and operable to release said handle for movement from vertical storage position and means connecting said latch release means with said wheel attaching means and said selector means and operable upon movement of said latch release means to latch releasing position for moving said wheels relative to said body and for releasing said selector means and gauging means to cause said gauging means to move into contact with said surface and position said selector means, and means operable by movement of said handle to actuate said connecting means to move said wheels to the position selected by said selector means, to relock said selector means and to raise said gauging means from said surface.

2,658,228
VACUUM CLEANER NOZZLE
Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to Lewyt Corporation, Brooklyn, N. Y., a corporation of New York
Application April 22, 1950, Serial No. 157,530
3 Claims. (Cl. 15—371)



1. A vacuum cleaner nozzle including in combination spaced front and rear walls connected to each other adjacent their upper and side edges to provide a nozzle body having a downwardly opening suction mouth, a pair of partitions spaced from each other and also from said front and rear walls, said partitions being disposed generally parallel to each other and to said rear wall and within the mouth of said body, webs extending between the foremost partition and the inner face of said front wall, pairs of retaining portions supported by said webs, rotatable units

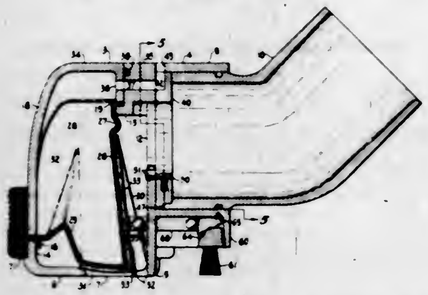
carried by said portions and extending below the nozzle mouth, an outlet hub carried by said body and communicating with the space between said partitions, and a floor-contacting and cleaning element supported by said body at a point between the rearmost of said partitions and said rear wall.

2,658,229

SUCTION CLEANING TOOL HAVING AN AIR PRESSURE ACTUATED NOZZLE AREA VARYING MEANS

Donald G. Smellie, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application October 27, 1948, Serial No. 56,850
12 Claims. (Cl. 15—373)



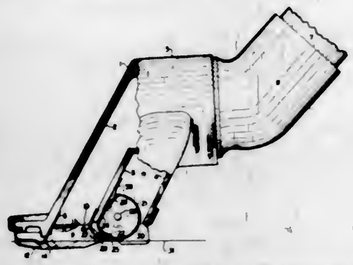
12. A cleaning tool comprising a nozzle body adapted to be connected to a source of suction and having a surface engaging suction air inlet cleaning nozzle, movable means for varying the effective air inlet area of said cleaning nozzle, a bellows having a movable wall subjected to the suction air pressure applied to said nozzle and connected to actuate said movable means, and valve means for selectively subjecting the interior of said bellows to atmospheric pressure and said suction air pressure.

2,658,230

NOZZLE STRUCTURE FOR SUCTION CLEANING APPARATUS

Otis B. Sutton, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application November 2, 1949, Serial No. 124,993
3 Claims. (Cl. 15—373)



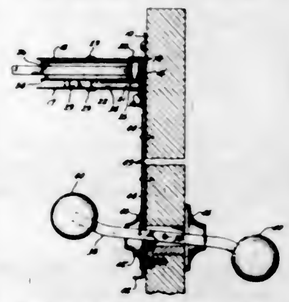
1. A cleaning tool for suction cleaning apparatus comprising a body member having a suction air passageway therethrough terminating in a surface treating air inlet nozzle, means forming a downwardly opening chamber in said body member rearwardly of said nozzle, a drum member rockably mounted in said chamber and projecting therebelow, a plurality of comb teeth projecting from said drum member, a torsion spring in said chamber biasing said drum to a first position in which said comb teeth are above the normal cleaning plane of said nozzle and the surface of said drum forms the rear lip of said air inlet nozzle, and surface contacting means connected to said drum projecting rearwardly of said nozzle adapted to rock said drum to lower said comb below said drum to form the rear lip of said air inlet nozzle in response to pressure applied to said body member.

2,658,231

DOOR CHECK

Joseph Paul Guttormsen, Kenosha, Wis.

Application May 18, 1949, Serial No. 93,921
12 Claims. (Cl. 16—63)



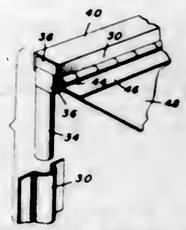
1. In a door check, a reel adapted to be rotatably mounted on a door; an elongated flexible member connected at one end to said reel and adapted to be connected at its other end to a door frame; a control member adapted to be operatively mounted in a door; means including a ratchet wheel fixed to the reel and a pivotally mounted pawl movable into and out of engagement with said ratchet wheel for normally preventing rotation of said reel in a direction to pay out said flexible member; and a connection between said control member and said pawl, whereby operation of said control member causes movement of said pawl out of engagement with said ratchet wheel to permit said flexible member to be unreeled during a door opening operation.

2,658,232

DETACHABLE LEAF HINGE

Angelo Colonna, Philadelphia, Pa.

Application August 8, 1949, Serial No. 109,128
3 Claims. (Cl. 16—149)



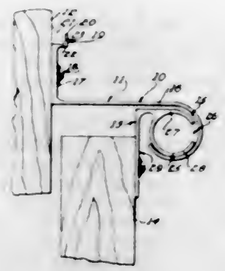
1. In combination, stationary support means, a pair of complemental vertically disposed socket members fixed in longitudinally spaced coplanar relationship on said support means, an elongate horizontal adapter bar spanning the space between said socket members and having end portions resting removably atop the upper ends of said members, said end portions having right angularly disposed depending rods affixed thereto and telescoping slidably but non-rotatably into said socket members, and leaf hinge means embodying a pair of companion leaves hingedly joined to each other, said leaves being commensurate in length with said bar and one of said leaves being affixed to said bar, whereby said bar and hinge means may be lifted up, as a unitary assemblage, and detached from said socket members.

2,658,233

HINGE, INCLUDING A DETACHABLE LEAF

Irvine Kimmel, Miami Beach, Fla.

Application July 18, 1950, Serial No. 174,490
2 Claims. (Cl. 16—172)



1. A hinge comprising an anchor leaf embodying a flat plate having a portion adjacent one end arcuately bent downwardly and inwardly with its tip spaced from the plate to provide a transversely disposed guideway of circular cross section, means on the other end of said plate for securement to a vertical supporting surface, and a movable leaf supported in said guideway for rotary movement, said movable leaf including an L-shaped bracket having a long leg and a short leg arranged perpendicularly with respect to the long leg, said short leg having one end connected to one end of the long leg, an open ended sleeve arranged transversely of the long leg and secured to the short leg adjacent the other end of the latter, there being a slit in said sleeve extending throughout its entire length and forming separated ends, the slit and separated ends being remote from the long leg, said sleeve extending axially through and rotatably supported in said guideway, and means on the long leg adjacent the other end thereof for attachment to an awning, the long leg of said bracket being spaced from said sleeve and forming a space for receiving the said tip of said plate when said movable leaf is rotated in a direction to move the long leg of its bracket away from said plate.

2,658,234

WINDOW BALANCE-TAPE RETAINER

Earl M. Trammell, Sr., and Earl M. Trammell, Jr., St. Louis, Mo.

Application June 9, 1950, Serial No. 167,048
5 Claims (Cl. 16—208)

2. A fixture for use on a balance tape in connection with sliding window sash, and in which the tape is provided with at least one opening therethrough between its ends, said fixture comprised of a body element having an aperture through which the tape slidably extends, said body element comprised of a plate element displaceable with respect to the tape, and an integral tongue projecting at an angle from the plate element, the tongue being adapted to extend into the opening in the tape, and being adapted to



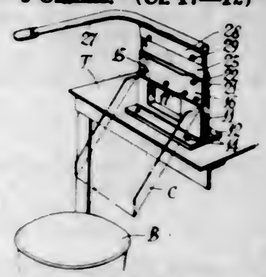
engage the tape adjacent the opening, whereby to fix the position of the fixture along the tape.

2,658,235

CUTTING TOOL FOR DRESSING POULTRY

Stephen J. Ograbisz, Hamburg, N. Y.

Application October 29, 1951, Serial No. 253,635
5 Claims. (Cl. 17—12)



1. A cutting tool for dressing poultry comprising an upright frame having spaced upper corners and having means thereon at the bottom thereof to secure the frame to a work surface, spaced lugs at the upper corners of the frame, said lugs being of less thickness than the frame thereby to provide a stop ledge along the upper edge of the frame, a fixed cutter blade secured to the face of the frame and projecting upwardly above said stop ledge and said upper edge, a movable cutter blade pivotally mounted on one of said lugs and adapted to slide when rotated in contact with said lugs and the fixed blade and to bottom on said stop ledge, an operating handle connected to the upper edge of the movable blade, said blades being formed with plane surfaces over the mutually engaging inside portions thereof and with tapered faces opposite said plane surfaces, thereby to provide cutting edges, one of said cutting edges being substantially straight and the other of said cutting edges being concave, said edges completely overlapping each other when the movable blade abuts the stop ledge.

2,658,236

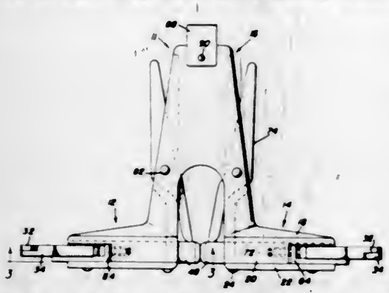
POULTRY SHACKLE

Paul J. Altenpohl, Philadelphia, Pa.

Application September 11, 1950, Serial No. 184,295
3 Claims. (Cl. 17—44.1)

1. A poultry shackle comprising a generally T-shaped body, a pair of oppositely directed

shackle units carried by said body, each of said shackle units comprising a pair of cooperating jaws, said jaws being disposed between a pair of plates forming a portion of said body and pivotally connected together by a first pivot pin and to said plates by second pivot pins for relative opening and closing swinging movement, an operating rod slidably mounted in said body for movement for selectively urging said jaws into open and closed positions, said rod being connected to said first pivot pin, spring means carried by said body urging said rod to a jaw closing position, locking dogs on said jaws, a combined latch and trigger member slidably mounted between said plates for movement between a first position engaging the locking dogs to prevent closing movement of the jaws and a second position disengaging said jaws, said member being spring-urged toward said first position, said member projecting from between the plates adjacent the jaws to be moved by an object disposed between the jaws toward the second position.

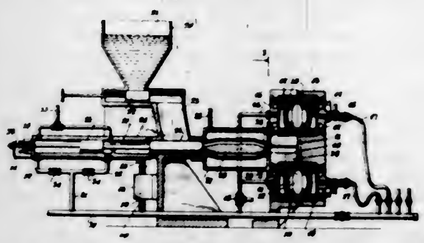


2,658,237

INJECTION MOLDING APPARATUS

Charles H. Cuppett, Packanack, N. J., and John Taylor, Bronxville, N. Y., assignors to Hydraulic Molds Corporation, New York, N. Y., a corporation of New York

Application December 14, 1948, Serial No. 65,098
4 Claims. (Cl. 18—30)



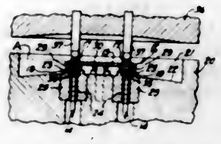
1. A molding apparatus comprising complementary mold sections defining the mold cavity said sections including wall portions made of resilient and self-sustaining material which will completely resume its initial shape subsequent to deformation by external force, an inlet to said cavity, a feeding element associated with said inlet for injecting material under pressure into said mold cavity, support members for said mold sections, the said members being arranged in partly spaced relationship to said mold sections and thereby defining an enclosed space adjacent each of said wall portions, means, operable by pressure, for moving said feeding element, and ducts connecting said feeding element moving means and said enclosed spaces to a source of hydrostatic pressure.

2,658,238

METHOD AND APPARATUS FOR MOLDING HEEL LIFTS

Anthony A. Rizzo, East Cleveland, Ohio, assignor of one-fifth to James J. Lasna, Cleveland Heights, Ohio,

Original application January 5, 1949, Serial No. 69,298. Divided and this application November 4, 1949, Serial No. 125,561
6 Claims. (Cl. 18—36)



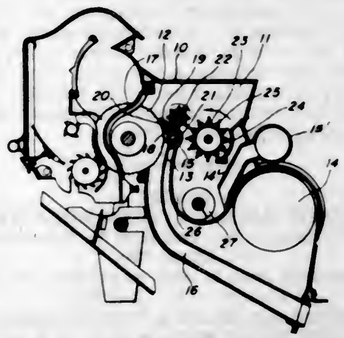
1. A mold for molding a heel lift with a fastening clip insert comprising a thin plate portion and a plurality of spaced parallel prongs projecting perpendicularly from one side of said plate portion, the said clip further having annular seating surfaces surrounding respective prongs at their base ends, said mold comprising a body portion having a mold cavity the side walls of which conform to the configuration of the lift edges, a plurality of spaced bosses upstanding from the bottom of the mold cavity and provided with apertures for receiving the clip prongs, the tops of said bosses comprising annular seating surfaces corresponding to the seating surfaces on the clip and on which the latter seat to position the clip in the mold and close off the boss apertures from the mold cavity, and a pressure plate movable against the said mold body to close the mold, said pressure plate having a plurality of hold-down pins therein corresponding to and aligned with the said bosses of the mold body and longitudinally movable in said pressure plate for clamping against the upper side of the fastening clip in the mold prior to complete closure of the mold.

2,658,239

COTTON GIN

Dewey D. Day, Dallas, Tex., assignor to The Murray Company of Texas, Inc., Dallas, Tex., a corporation of Delaware

Application October 16, 1950, Serial No. 190,401
9 Claims. (Cl. 19—59)



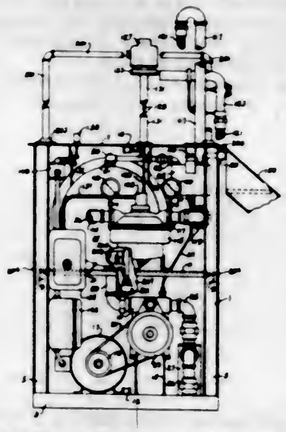
1. In a cotton gin stand, the combination of, ginning ribs, saws revolving between the ribs, an air blast nozzle adjacent the saws, an upper moting chamber open to the saws between the ribs and the nozzle, a pair of rollers disposed transversely of the gin stand in the rear of the saws and constituting the bottom of the upper moting chamber, and a lower mote chamber in the stand below the rollers, one of the rollers being forward of the other roller and above the nozzle adjacent the saws and the other roller being in rear of the nozzle, said rollers coacting to carry motes and trash from the upper moting chamber to the lower chamber, and means between the top of the nozzle and the forward roller for stripping motes and trash from the saws.

2,658,240

DISPENSING APPARATUS

Homer R. Talmage, Fort Wayne, Ind., assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana

Application May 31, 1946, Serial No. 673,395
1 Claim. (Cl. 20—0.8)



In a liquid dispensing apparatus, the combination of a frame, a housing supported thereby and comprising an elevated deck and a door on one side, dispensing means disposed within the housing comprising a pump, a motor for the pump and means for energizing and deenergizing the motor, control means extending above the level of the deck for operating said energizing means, and means operable by said door when it is in closed position, for locking said control means against operation.

2,658,241

BRIDGING

Dale B. Houghton, Jr., Frankfort, and Dale B. Houghton, Beulah, Mich.

Application July 10, 1950, Serial No. 172,924
1 Claim. (Cl. 20—9)



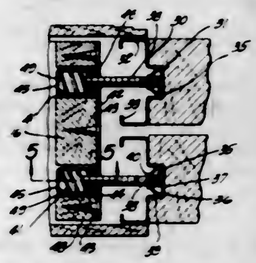
A bridging unit comprising a pair of telescopically adjustable bars of substantially U-shaped cross-section, the female bar including a longitudinal guide rib in its bight portion and further including longitudinally spaced, outwardly pressed substantially louver-shaped projections defining depressions in its opposed side walls spaced from the free longitudinal edges thereof, said female bar still further having channels in said side walls extending from the depressions to said longitudinal edges, substantially louver-shaped dogs struck out from the side walls of the male section and engageable selectively in and disengageable from the depressions through the channels for releasably securing the bars in adjusted position, said male section having a longitudinal groove in its bight portion slidably accommodating the rib, and guides struck inwardly from said side walls of said female bar adjacent one end thereof and engaged with the longitudinal edges of the male bar for slidably securing same in said one end of the female bar.

2,658,242

WINDOW CONSTRUCTION

Fred C. Osten, Sr., Detroit, Mich.

Application September 22, 1950, Serial No. 186,231
8 Claims. (Cl. 20—12)



7. In a window construction embodying a window frame having a side rail and in which window sash are slidable; a slide rail positioned within the frame and opposed to the inner face of a side rail of the frame and extending longitudinally thereof and movable toward and away from said side rail and engageable at its outer face with a sash; a threaded member carried by said slide rail and projecting therefrom towards said side rail and in fixed axial relation to said slide rail and rotatable relatively thereto; a spring; means for supporting said spring for cooperating with said threaded member; and a nut threaded on said threaded member and engageable at one face with one end of said spring, said spring normally urging, through pressure on said nut, said slide rail away from said side rail.

2,658,243

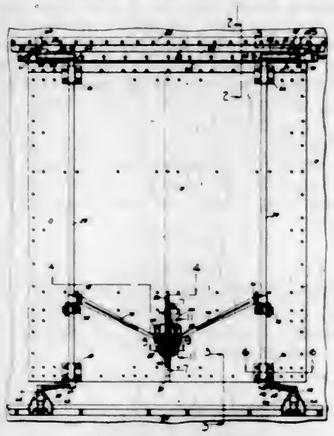
LATERALLY MOVABLE DOOR

Wilfred A. Beauchamp, Chicago, Ill., assignor to Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio

Application June 1, 1950, Serial No. 165,512
8 Claims. (Cl. 20—23)

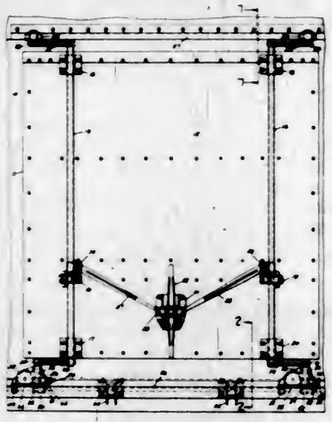
1. In a railway freight car having a wall provided with a door opening, a door for closing said opening, means comprising vertical bars rotatably mounted on said door for mounting said door upon said wall for lateral movement into and from said door opening and longitudinal movement along said wall and levers secured to said bars for imparting rotation thereto, the combination comprising a plate member secured upon said door, an internally threaded hub on said plate member, an externally threaded member meshing with said hub, a lever secured to said threaded member for imparting rotation thereto, a follower slidably and non-rotatably

mounted on said threaded member, means on said latter lever and follower having interlocking and rotatable engagement, means on said follower and plate member for limiting outward movement of said follower, means on said fol-



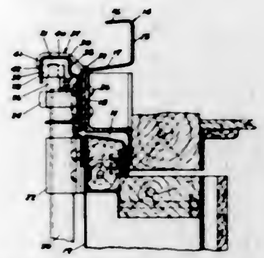
lower and plate member for limiting inward movement of said follower, and wings on said follower adapted to engage and impart swinging movement to said first mentioned levers and rotation to said bars.

2,658,244
LATERALLY MOVABLE DOOR
Gabriel Madland, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application July 20, 1950, Serial No. 174,964
4 Claims. (Cl. 20—23)



1. In a railway car having a side wall provided with a door opening, a door seated within said door opening, a track, means securing said track to said wall below said door opening in outwardly spaced relation to said wall, said track having an inner vertical flange, an outwardly extending web and an outer vertical flange, a guide and retaining rail secured to said wall above said door opening, a plurality of roller carriages having means extending downwardly between said track and wall, said means having hook-shaped portions slidably interlocked with said inner vertical track flange, rollers carried by said carriages and having rolling engagement upon said web of said track, guide means having laterally overlapping relationship with said guide rail, means supporting said door upon said carriages and guide means for lateral movement into and from said door opening and longitudinal movement along said track, said supporting means embodying vertical bars rotatably mounted on said door and cranks secured to the lower and upper ends of said bars, said upper cranks having spindles journalled in said guide means, said carriages being provided with pockets disposed in substantially longitudinal alinement with said rollers, said lower cranks having spindles journalled in said pockets.

2,658,245
RAILWAY CAR CONSTRUCTION
Thorvald Madland, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application September 15, 1950, Serial No. 185,038
3 Claims. (Cl. 20—26)



1. In a refrigerator car having a door opening, a side plate above the door opening embodying an outer vertical flange and a substantially horizontal flange extending inwardly from the upper part of said vertical flange, and a sliding flush door provided with mechanism for moving the door into and out of the door opening comprising vertical bars rotatably mounted on said door and having cranks on the upper ends thereof including upwardly extending spindles carrying rollers, the combination with said rollers of a retaining member, said retaining member extending along said car above and beyond said door opening and comprising a web and spaced inner and outer substantially vertical flanges extending downwardly from said web, said inner vertical flange of said retaining member being secured to outer vertical flange of said side plate and offset outwardly thereof to provide a portion spaced therefrom, said offset portion, web and outer vertical downwardly extending flange of said retaining member forming a channel, said rollers lying in said channel, said portion and said latter flange constituting abutments for said rollers during the operation of the mechanism to move the door into and out of the door opening.

2,658,246
ADHESIVE MEANS FOR ATTACHING ARTICLES TOGETHER
Harry H. Mahler, Brookline, Mass.
Application August 17, 1950, Serial No. 179,986
4 Claims. (Cl. 24—67)

1. As an article of manufacture a non-piercing thumb tack comprising a thin plastic plate element having smooth continuous surfaces on both sides coated with a thin layer of solid, yielding, deformable tacky adhesive material, readily

removable from surfaces with which it may come in contact, the adhesive on at least one of said



sides being formed with spaced areas projecting outward from the surface of said coating.

2,658,247
SNAP-IN DEFORMABLE CLIP HOLDER
Lawrence H. Heuer, Detroit, Mich., assignor to Automotive Spring Corporation, Detroit, Mich., a corporation of Michigan
Application March 10, 1949, Serial No. 80,743
1 Claim. (Cl. 24—73)



A fastening member for wires, tubes and the like comprising a strip of metal of flat rectangular shape, one end of which is soft and readily deformable and the other end of which has spring characteristics, the soft end being formed back upon itself to provide an open hook, tabs struck from the sides of the strip extending toward the end of the hook, tabs struck from the center of the other end of said strip curved away and then toward each other to an overlapping relation to form a spring loop axially transverse of said strip, and a coating of sound and electrical insulative material such as rubber at the hooked end of the strip covering the hook and side tabs.

2,658,248
COIL FORM FASTENER
Harold W. Kost, Toledo, Ohio, assignor to Prestole Corporation, Toledo, Ohio, a corporation of Michigan
Application February 8, 1952, Serial No. 270,571
1 Claim. (Cl. 24—73)



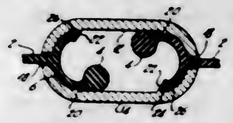
A coil tube fastener comprising one piece resilient sheet metal structure having a bottom wall, arms arcuate in cross section extending upwardly from said bottom wall, downwardly and outwardly inclined terminals on said arms, flexible finger means on the free ends of said terminals, prongs on each arm for retaining a coil tube within the structure, there being a slot in each terminal in the region of its juncture with the respective arm, said slot extending along each arm and ending in a transverse edge portion, an outwardly extending rib-like protrusion on each arm with said transverse edge portion bowed outwardly and providing the upper end thereof, each transverse edge portion being arranged approximately in the plane of the lower end of the respective terminal when the latter is unflexed, the outer wall of said protrusion inclining gradually downwardly and inwardly toward said bottom wall to form a relatively rigid cam surface, whereby when the structure is inserted into a panel aperture the cams cause the arms to flex inwardly toward each other until the transverse edge portions engage the underside of the panel with the terminals resiliently engaging the upper side of the panel.

2,658,249
CUFF LINK
Robert O. Wilson, Rockford, Ill.
Application October 28, 1952, Serial No. 317,173
3 Claims. (Cl. 24—102)



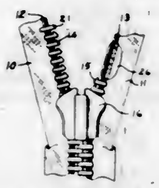
1. For use on a cuff having a button hole therein, a link including a socket member mounted in the button hole, a substantially U-shaped clamp mounted on the cuff, this clamp including a stationary jaw on one end and further including an adjustable jaw threadedly mounted on its other end and cooperable with the stationary jaw for securing the cuff therebetween, and a member on the second named jaw engageable in the socket member for detachably connecting the clamp thereto.

2,658,250
SLIDE FASTENER OF THE EXTRUDED TYPE
Ludwig W. Koutnik, West Babylon, N. Y., assignor to Frank S. Brainard, Jr., Hartford, Conn.
Application December 13, 1952, Serial No. 325,814
6 Claims. (Cl. 24—201)



1. The combination with a fastener of the type consisting of a pair of strips of flexible material formed along their edges with cooperating male and female members adapted to interlock to hold the strips in edgewise relation, of a slider for operating the fastener comprising two spaced rigid wall members interconnected at one end and with their side edges turned toward each other to define an enclosure for reception of the male and female members of the strips with the strips extending between the opposed edges of the wall members, said wall members being so shaped that the cross-section of the enclosure diminishes from a maximum adjacent the interconnected end to a minimum just sufficient to accommodate the cooperating male and female members of the fastener when interlocked, and fixed cooperating means on the interior surface of said wall members and on the outer surfaces of the fastener for spreading open the female member of the fastener when in the part of said slider between the minimum and maximum cross-section of the enclosure defined by the walls thereof, said cooperating means including ribs on some of said surfaces and complementary dovetailed grooves on the other of said surfaces.

2,658,251
TAPE END FOR QUICK-RELEASE ZIPPERS
Richard W. Simpson, Cheshire, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application December 15, 1951, Serial No. 261,776
1 Claim. (Cl. 24—205.11)



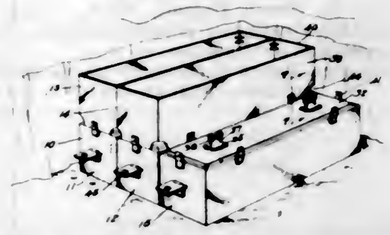
A quick release zipper comprising two stringers each having a row of fastener elements, one row being substantially longer than the other, a permanent stop attached to the stringer having the longer row, a retarding or checking device on one of the rows so as normally to limit the movement of the slider, the tapes of said stringers having corded edges consisting of two cords on opposite sides of the tape, the cords beyond the shorter row of elements being displaced laterally relative to one another and compressed to reduce their overall thickness to substantially the thickness of the flat portion of the tape and held in position by means of plastic material.

2,658,252
FORM FOR MOLDING OPENINGS IN CONCRETE STRUCTURES
Arthur C. Avril, Cincinnati, Ohio, assignor to A and T Development Corporation, St. Bernard, Ohio, a corporation of Ohio
Application June 28, 1950, Serial No. 170,760
3 Claims. (Cl. 25—131)



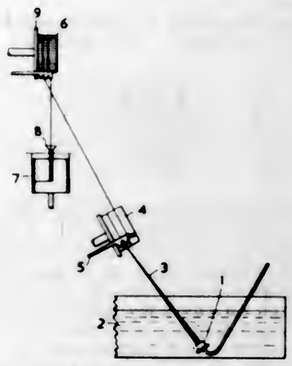
3. In a form structure for molding poured concrete walls and the like constituting spaced sets of substantially continuous horizontal inner and outer wall forms adapted to delineate the inner and outer wall surfaces, a dam structure adapted to delineate an opening at a selected position in the wall comprising, a pair of closure plates constructed and arranged to be interposed in spaced relationship with one another between the spaced inner and outer wall forms to provide closures between the wall forms and thereby to delineate an opening in the poured wall, a spacer bar adapted to be interposed between the said plates to maintain the plates in spaced relationship with one another, said closure plates being adapted to slidably contact the said inner and outer wall forms and to resist the hydrostatic pressure developed by the wet concrete mix independently of the inner and outer wall forms, a spacer bar retainer mounted on each of said closure plates adapted to support the respective ends of the spacer bar, the retainers each constituting a pair of angle members spaced from one another and secured to the closure plate to stiffen the same and providing opposed flanges substantially parallel with and spaced from the closure plate, the adjacent inner edges of the said flanges being spaced from one another to receive the end of the spacer bar therebetween, and respective channel members secured upon the opposite ends of the spacer bar, the channel members being adapted to be inserted between the said angle members with the opposed flanges overlying the channel members thereby providing a detachable connection between the spacer bar and closure plates.

2,658,253
BURIAL VAULT CONSTRUCTION
Henry D. Richardson, East Providence, R. I.
Application June 26, 1947, Serial No. 757,272
3 Claims. (Cl. 27—35)



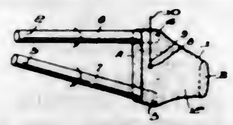
3. A metal burial vault construction comprising a base member, sides and ends, and a cover, said sides and ends having spaced upstanding lugs at their upper edges, and shield plates positioned in parallel alignment to the sides and ends and removably mounted in said lugs.

2,658,254
RAYON SPINNING MACHINERY
John H. Givens, Meriden, and Leslie Rose and Eric J. Whyte, Coventry, England, assignors to Courtaulds Limited, London, England, a British company
Application February 1, 1950, Serial No. 141,712
Claims priority, application Great Britain March 14, 1949
3 Claims. (Cl. 28—71.5)



1. A godet for high speed spinning into a rotating spinning box having thirty-six to forty thread-supporting bars arranged substantially uniformly around and equidistant from the centre of rotation of the godet, the width of the thread-supporting surface of each bar being 0.05 of an inch and the pitch of the bars being from about 0.55 to about 0.59 inch, whereby licking under of the yarn during setting up is avoided.

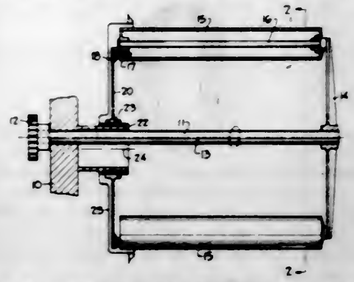
2,658,255
METHOD AND APPARATUS FOR STORING AND ADVANCING THREAD
Gaetano F. D'Alello, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware
Application May 18, 1951, Serial No. 227,016
6 Claims. (Cl. 28—71.5)



5. Apparatus for storing and advancing thread comprising: a pair of rotatable inclined rollers for storing and advancing said thread in a helically looped path around and axially along said rollers; a flexible sleeve tautly embracing said pair of rollers in flexible sleeve friction-driving relationship therewith; said flexible sleeve being of such dimensions as to pass, when stretched, completely around from about one half to about the whole of the total thread -contacting portion of the rollers in a tautly embracing, flexible sleeve friction-driving relationship therewith; said flexible sleeve being adapted to be driven around, axially along the entire length of and finally off the closely positioned ends of said rotatable inclined rollers by means of the rotation and inclination of said rollers; said flexible sleeve having an end portion which is adapted to be stretched around the starting widely-spaced ends of said rotating inclined rollers in a tautly embracing, flexible sleeve-driving relationship therewith to initiate the movement of the flexible sleeve around and axially along said rotating rollers; said flexible sleeve further being adapted to have attached to a portion thereof a starting end of said thread as said portion moves axially past the thread-receiving section of said rollers, whereby the said flexible sleeve and the end of the thread attached thereto are driven around, axially along the length of and off the closely positioned ends of said inclined, rotatable rollers by means of the rotation and inclination of said rollers to draw the thread along a helically looped path first around and in contact relationship with the outside surface of said flexible sleeve as said sleeve rotates around and travels the length of said rollers, and thereafter around and in contact relationship with the thread-contacting portion of said rollers as said sleeve is driven off the other ends of said rollers.

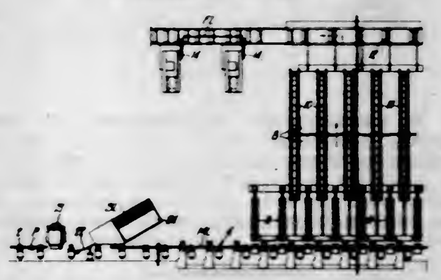
2,658,256
SELF-WINDING AND SELF-TRANSPORTING REEL
Willem J. D. van Dijck, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 28, 1948, Serial No. 35,643
Claims priority, application Netherlands July 2, 1947
11 Claims. (Cl. 28—71.6)

1. A self-winding and self-transporting reel comprising a reel frame mounted for rotation with respect to a support about a reel axis, a plurality of rollers having continuous surfaces and disposed to form the enveloping surface of the reel journalled in said frame for individual rotation with respect to said frame about individual axes which are skew with respect to said reel axis, said rollers having feed ends for receiving a thread and discharge ends for discharging said thread, means for rotating said reel frame about the reel axis in a direction causing the discharge ends of the rollers to be circumferentially advanced with respect to the feed ends of the respective rollers and means for rotating said rollers about said individual



axes in a direction opposite to the said direction of rotation of the reel frame with respect to said support and at a circumferential velocity with respect to the frame which is less than the absolute circumferential velocity of the reel as a whole.

2,658,257
PIPE COOLING ARRANGEMENT FOR HIGH-SPEED CONTINUOUS MILLS
Bryant Bannister, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application January 29, 1951, Serial No. 208,419
2 Claims. (Cl. 29—70)



1. Apparatus of the class described comprising a high speed conveyor for long lengths of pipe, a rotary shear disposed in said conveyor, an automatic controller for said shear adapted to intermittently actuate said shear to cut rapidly moving pipe on said conveyor into multiple lengths, a cooling bed adapted to receive said multiple lengths from said high speed conveyor, and slow speed conveyor means at the outlet side of said cooling bed adapted to receive said multiple lengths, a plurality of saws disposed adjacent said slow speed outlet conveyor, said saws being adapted to cut said multiple lengths into finished lengths and to remove the damaged ends on said multiple lengths resulting from cutting said pipe with said rotary shear.

2,658,258
TIRE BUFFING BAND
Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application October 16, 1950, Serial No. 190,331
2 Claims. (Cl. 29—78)

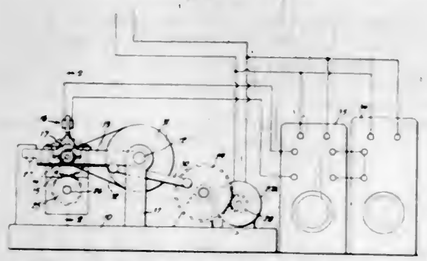
1. In a device of the class described, an elongated sheet metal tire buffing band adapted to be

secured to the peripheral surface of a rotatable buffing head, said band presenting a substantially uninterrupted buffing surface and comprising two groups of cutting teeth of different types in alternate arrangement, the teeth of one of said groups presenting relatively narrow cut-



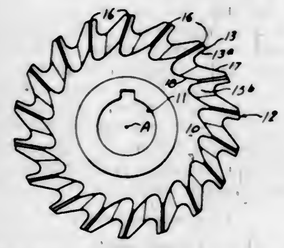
ting faces and the teeth of the other of said groups presenting relatively wide cutting faces, the teeth of said one group projecting laterally outwardly from said cutting band a distance greater than the teeth of said other group.

2,658,259
APPARATUS FOR FINISHING GEARS
Charles J. Aldino, Franklin Square, and John J. Ryan, New York, N. Y.
Application July 3, 1950, Serial No. 171,906
6 Claims. (Cl. 29—90)



1. In a machine for finishing gears, the combination comprising a finishing gear holding means, a work gear holding means, means rotating gears on said gear holding means, means holding said gears in continuous intimate contact, and high frequency electrically actuated means subjecting said gears to impact action.

2,658,260
MILLING CUTTER
Albert Hage, Toledo, Ohio
Application February 26, 1952, Serial No. 273,377
1 Claim. (Cl. 29—103)



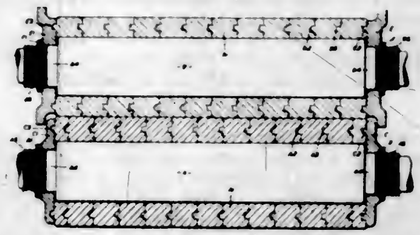
A milling cutter comprising a metallic cylindrical body having an annular row of teeth on the peripheral surface thereof, each of said teeth having an intermediate pointed cutting edge and straight rearwardly inclined oppositely extended cutting edges tapering from said pointed edge rearwardly with respect to the direction of rotation of said body and each inclined cutting edge terminating at a side edge of the respective tooth, said teeth having lands concave transversely of the circumference rearward of the cutting edges and struck substantially on the arc of the circle, the radial surface of each tooth raking rearwardly relative to the direction of rotation and terminating in an outwardly inclined curved shallow concave pocket so as to form a plow-like base at the tooth front, and an integral backing for each tooth merging with the concave pockets of the next succeeding tooth.

2,658,261
ROTARY CUTTER
Otto Junker, Lammersdorf, near Aachen, Germany, assignor to Otto Junker, Lammersdorf, near Aachen, Germany, a corporation of Germany
Application May 23, 1952, Serial No. 289,472
3 Claims. (Cl. 29—103)



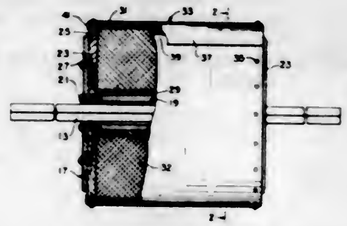
1. In a device for removal of casting skins from rolled metal bars a circular milling roll composed of a plurality of circular cutter discs, a center shaft to support said cutter discs in an axially adjacent relationship, inner circular metal sleeves located upon said shaft to support said discs, a circular rubber bushing surrounding said metal sleeves, a plurality of radially orientated segmental flat projections and correspondingly formed recesses alternatingly applied to the adjacent faces of said cutter discs, cutting teeth at the outer circumference of said projecting and said recessed projections, a space being provided with said individual segmental projections of adjacent cutter discs to permit a radial mutually independent displacement thereof.

2,658,262
RUBBER ROLLER
Henry Clements, Surbiton, England, assignor to Andre Rubber Company Limited, Surbiton, England, a British company
Application April 4, 1952, Serial No. 280,530
Claims priority, application Great Britain April 4, 1951
1 Claim. (Cl. 29—119)



A resilient roller comprising a cylindrically shaped metal core for being rotatably supported, a series of similar annular units of elastomeric material positioned side by side and having said core extending through the bore formed by said units in relatively rotatable friction-tight engagement therewith with said units forming the entire cover for the periphery of said core, each of said annular units having integral circular ribs extending from one side face and circular grooves provided in the opposite side face with the ribs and grooves of adjacent annular units mating, a pair of cheek plates each having a central opening through which said core extends, one of said plates having annular grooves provided in the inner face thereof into which extends the ribs of one of the end units of said series of annular units, the other of said cheek plates having annular ribs provided on the inner face thereof which mate with the grooves of the opposite end unit of said series of annular units, and means for adjustably tightening said cheek plates longitudinally of said core against and compressing said series of annular units.

2,658,263
METHOD OF WINDING AND PACKAGING COILS
Benjamin B. Scott, Jr., Schenectady, N. Y.
Application December 21, 1949, Serial No. 134,312
6 Claims. (Cl. 29—148)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. The method of packaging wire within a can, which method comprises winding the wire into a coil on a mandrel between spaced discs that are to form the ends of the can, bracing the discs against stiff flanges that maintain the spacing of the discs and prevent the discs from bending while the coil is being wound, covering the coil with a cylindrical metal shell that extends somewhat beyond the discs, bending the ends of the shell inward over the discs to form a can while the discs are confined between the flanges, and thereafter removing the flanges and the mandrel.

2,658,264
PROCESS FOR MANUFACTURING LAMINATED CORES FOR ELECTROMAGNETS
Israel Epelboin, Paris, France, assignor of one-half to Centre National de la Recherche Scientifique, Paris, France, a corporation of France
No Drawing. Application August 30, 1948, Serial No. 46,934
Claims priority, application France March 8, 1948
3 Claims. (Cl. 29—155.61)

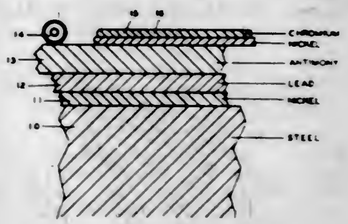
1. A process for the manufacture of electromagnet laminated cores which consists in electropolishing the superficial layers of ferro-magnetic lamina for decreasing the thickness thereof, thereby increasing the magnetic permeability and decreasing losses due to eddy currents, varnishing the polished surfaces of said lamina, and then piling up the polished varnished lamina in stacked relationship.

2,658,265
METHOD OF MAKING PROPELLER BLADES
Charles A. Brauchler and Chandis H. Brauchler, Canton, Ohio
Application April 22, 1950, Serial No. 157,576
6 Claims. (Cl. 29—156.8)



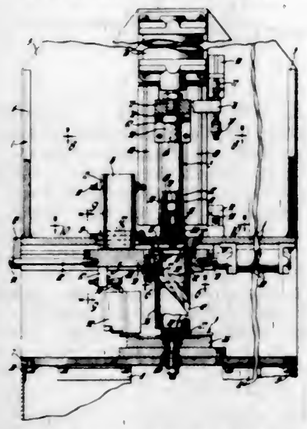
1. The method of making a seamless, hollow, metal propeller blade, which consists in forming a blank comprising a shank portion, a hollow portion at one end of the shank portion and an annulus of greater cross-sectional thickness surrounding the open end of the hollow portion, heating the blank to forging temperature then extruding the annulus of the blank into a cylindrical seamless tube of slightly less length than required in the finished propeller blade and in the same operation simultaneously extruding diametrically opposite longitudinal ribs upon the exterior of the tube, said tube being a continuation of said hollow portion then in a drawing operation drawing the tube to final finished length while maintaining the longitudinal ribs thereon, and then deforming the seamless extruded, drawn, longitudinally ribbed tube to substantially elliptic cross-sectional shape throughout the greater portion of its length to provide a seamless hollow blade of increasingly flatter elliptic cross-sectional shape from said shank portion toward the tip end, said longitudinal ribs forming the leading and trailing edges of the blade, and securing the flattened tip end of the blade together.

2,658,266
LAMINATED COATING
Arthur H. Du Rose, Euclid, and John D. Little, Bay Village, Ohio, assignors to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio
Application August 7, 1952, Serial No. 303,104
6 Claims. (Cl. 29—196.6)



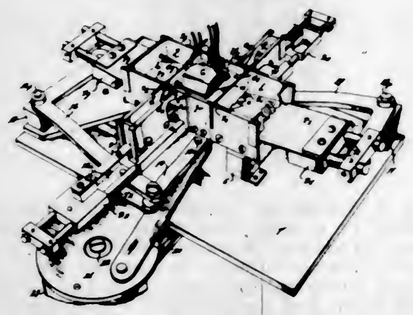
5. A laminated, metallic, bright, protective coating on a metal base of the class consisting of steel, copper and brass consisting of a firmly adherent layer of a metal of the class consisting of nickel, cobalt and mixtures thereof of a thickness from 0.2 to .2 of a mil, a layer of the class consisting of lead, tin and silver of a thickness from 0.1 to .7 mil overlying and adherent to said last mentioned layer, a firmly adherent layer of antimony on said last mentioned layer and having a bright surface, a film of a metal of the class consisting of nickel, cobalt, zinc, iron, white brass and copper of a thickness from .001 to .05 mil firmly adherent to said bright surface and a layer of fully bright, unbuffed chromium of a thickness from .003 to .03 mil firmly adherent to said film.

2,658,267
SPRING WINDING MACHINE
Peter J. Bianco, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 2, 1949, Serial No. 125,077
14 Claims. (Cl. 29—228)



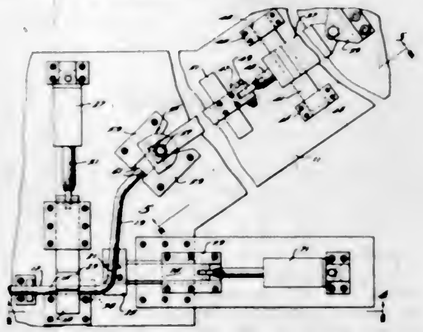
3. In a spiral spring winding machine, a non-rotatable helically slotted member through which a spiral spring may be passed with the outer end of the spring slidably following the helical slot, a ram receivable in said member for effecting the passage of the spring therethrough, means on one end of said ram in abutment with the outer-most convolution of the spring during its passage through the member, and other means on said ram restraining rotation of the inner end of the spring during its passage through the member.

2,658,268
APPARATUS FOR STACKING TRANSFORMER LAMINATIONS WITHIN A COIL WINDOW
Harry V. Knauf, Jr., Oaklyn, and Charles A. Erdman, Jr., Haddon Heights, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application July 31, 1948, Serial No. 41,846
2 Claims. (Cl. 29—203)



1. A machine for applying oppositely extending alternate pairs of E and I shape laminations to a coil having a window adapted to receive the center bar of E's, said machine comprising a compartment containing a vertically stationary horizontal platform adapted to be received within said coil-window for the purpose of supporting said coil and receiving said laminations, said platform comprising a bi-part structure, each of the two parts of said bi-part structure being substantially E-shaped with a stepped upper surface and disposed with the open edges of said E's facing each other, means for supporting said parts for horizontal movement with respect to each other whereby the two parts may be separated to admit the positioning of the coil thereon and then reclosed to hold the coil in position, a magazine for said E-shaped laminations disposed adjacent the rear edge of each of said E-shaped support structures, a magazine for said I-shaped laminations disposed adjacent the side edge of each of said E-shaped support structures, means including an ejector blade mounted for reciprocating motion in association with each of said magazines for removing the E and I laminations of a given first pair from their magazines simultaneously and for depositing said pair upon said platform in juxtaposition with respect to said coil and for removing the E and I laminations of the other pair from their magazines simultaneously and depositing them upon said platform beneath said first mentioned pair, said means for removing and depositing said I-laminations including means for moving said I-laminations in a direction longitudinally of said I-laminations, and means to reciprocate said ejector blades alternately in pairs.

2,658,269
SWAY BAR BUSHING APPLYING MACHINE
George L. Redding, Monroe, Mich., assignor to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application February 21, 1948, Serial No. 10,142
5 Claims. (Cl. 29—235)



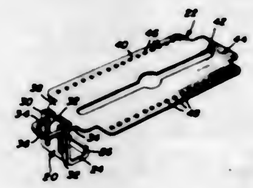
1. A device for applying a hollow element on the intermediate portion of a rod having an angularly extending end arm, including a base, means supported on said base for releasably supporting said rod in a predetermined position on said base, a hollow member for supporting said hollow element during its movement toward and along said rod, said hollow member being open at the front thereof and having a back wall with a laterally elongated opening therein through which the end of said rod is adapted to project when said element is moved onto said rod, a member slidably supported on said base, means pivotally connecting said hollow member to said slidable member adjacent the forward end thereof for free lateral pivotal movement with respect to said base, a fluid operated piston and cylinder, means freely pivotally connecting said cylinder adjacent its rear end to said base for pivotal movement laterally with respect to said base, means freely pivotally connecting said piston to said slidable member adjacent the rear end of the latter for pivotal movement about a horizontal axis, means supported on said base adjacent said element supporting member and between said piston and cylinder and said rod for only initially guiding said element and element supporting member onto the end arm of said rod during the movement thereof, whereafter said rod will guide said element and element supporting member along its end arm and intermediate portions disposed on said intermediate portion in a predetermined location.

2,658,270
SEAL CUTTER
Francis A. Maitland, Pawtucket, R. I.
Application November 1, 1952, Serial No. 318,250
6 Claims. (Cl. 30—2)



1. A device for severing a seal attached to a container to secure a flange cover thereon comprising a part adapted to bear against the top of the cover and having an arm extending down the side of the body of the container, and a slide on said arm having a blade thereon adapted upon movement of said slide to pierce said seal at the lower edge of said flange to be lodged between said flange and container body and sever said seal by moving the device circumferentially about said container body.

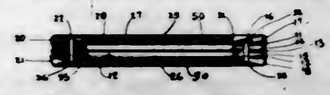
2,658,271
SAFETY RAZOR WITH EXTRA BLADE
Arthur H. Bronish, Van Nuys, Calif., assignor of fifty per cent to Cecil C. Holland, Van Nuys, Calif.
Application December 10, 1951, Serial No. 260,897
2 Claims. (Cl. 30—50)



1. An attachment for the head of a safety razor construction of the class described comprising a substantially L-shaped bracket embodying a short arm and a long arm, said long arm being provided with slot means, said short arm being provided with a flange for attachment to the frame part of said head, and a flexible adapter plate provided at one end with a yoke attached to said slotted arm.

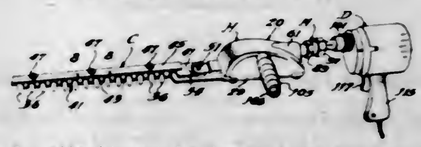
2,658,272
POCKET KNIFE HANDLE
William W. Lillard, Beaumont, Calif.
Application October 9, 1950, Serial No. 189,180
4 Claims. (Cl. 30—125)

1. In a pocket knife, a handle including two metal side plates, a metallic bolster member secured to each end of said plates on the outwardly disposed face thereof, a molding strip permanently fastened to the outer face of each of said side plates between the bolster members thereon, a cavity formed in each of said molding strips lengthwise thereof and positioned inwardly from



the outer surface of the associated molding strip, an inlet for each of said cavities adjacent an end of the associated molding strip, said inlets each including a recess formed in the adjacent bolster to have an inwardly disposed surface inclined inwardly toward the adjacent end of the associated cavity.

2,658,273
POWER-OPERATED HEDGE TRIMMER
Carl Dodegge, Maywood, Ill.
Application July 17, 1951, Serial No. 237,193
2 Claims. (Cl. 30—216)

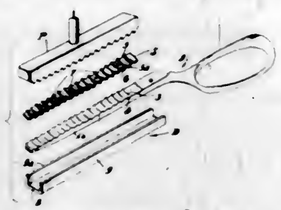


1. An attachment for hand-drills and the like, said attachment comprising a housing including two oppositely disposed end walls, a partition wall disposed between said end walls, and a removable elongated bottom wall, said bottom wall having one end portion projecting outwardly from said housing and comprising an elongated cutter bar, a substantially T-shaped slide comprising an elongated shank and a cross-bar, said slide being movably mounted on said bottom wall in substantially parallel longitudinally extending relation thereto for reciprocation therealong, said shank extending through one of said end walls and through said partition wall in close fitting relation thereto for guidance thereby, said shank having one end portion offset upwardly from said bottom wall, drive means rotatably mounted in said housing and including a coupling member for operatively connecting said drive means to such a hand drill for rotation by the latter, said drive means being operatively connected to said cross-bar for reciprocating said slide along said bottom wall upon such rotation of said drive means by such a hand-drill, and a cutter blade mounted on said cutter bar in substantially parallel longitudinally extending relation thereto, said cutter blade being operatively connected to said offset portion of said shank in longitudinally extending relation to the remainder of said shank for reciprocation by said slide member along said cutter-bar upon said reciprocation of said slide member by said drive means.

2,658,274
PINKING SHEARS
Edward Kane and Edwin L. Whitlock, New York, N. Y.
Application December 29, 1950, Serial No. 203,476
1 Claim. (Cl. 30—230)

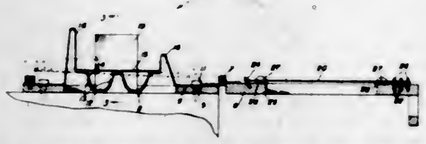
In a pinking shears, the combination of a longitudinally extending metal cutter strip having transversely corrugated faces and having longitudinally spaced holes extending therethrough and through said faces, and a longitudinally extending metal body member formed separately

from the cutter strip and being made of a softer metal than the cutter strip, said body member having a transversely corrugated face which receives one face of the cutter strip, said cutter strip having one of its said faces superimposed thereon with its corrugations in intimate contact



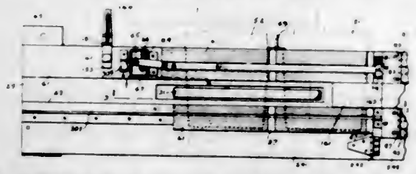
with the corrugations on the face of the body member, said body member having longitudinally spaced studs that upstand from its corrugated face and tightly engage in said openings in the cutter strip to maintain said intimate contact between the strip and the body member throughout the length and width of said strip.

2,658,275
CHEESE CUTTER
Sol Kaplan, University City, and Benjamin Platts, St. Louis, Mo.
Application September 11, 1951, Serial No. 246,012
2 Claims. (Cl. 31—25)



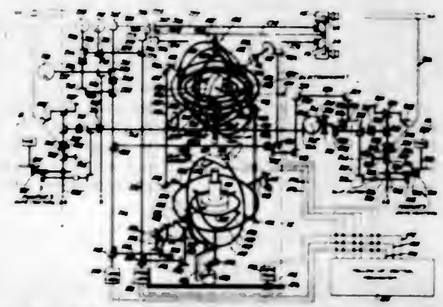
1. A cheese cutter comprising a base frame, a cutter frame hingedly connected to the base frame for swinging on top of the former, a plurality of cutting wires carried by the cutter frame, a work support including a plurality of spaced parallel bars, upstanding parallel rows of guides united with the bars at the ends of the latter to receive the cutting wires therebetween, means attaching the guides to the base frame, and a corrugated bracing member under the bars and supporting the bars at longitudinally spaced apart intervals, said bracing member also having slots alined with the guides to receive the cutting wires.

2,658,276
MECHANISM FOR MARKING AND CUTTING TROUSERS
George R. McAllaster, Rochester, N. Y.
Application September 30, 1950, Serial No. 187,762
7 Claims. (Cl. 33—32)



1. Apparatus for marking the legs of trousers, including means comprising a supporting bed for holding both legs of a pair of trousers in flat condition in side by side relation to each other, reciprocating means mounted for reciprocation in a path of travel transverse to the legs of said trousers when so held, chalking means mounted on and movable bodily with said reciprocating means for marking a plurality of parallel chalk lines on both the upper and lower surfaces of both legs of said trousers during a single reciprocation of said reciprocating means, friction surface clamping means for contacting with said trouser legs to clamp them substantially immovably during the marking of said chalk lines, a shiftable guide bar pivoted at one end to said supporting bed on one side of said trouser legs and adapted to be swung to a position overlying said trouser legs to assist in placing them in position for clamping by said clamping means, and latching means on said bed on the opposite side of said trouser legs for latching the opposite end of said guide bar.

2,658,277
GUN FIRE CONTROL APPARATUS
Arthur P. Davis, Stamford, Conn., and James K. Macomber, Rockville Centre, N. Y., assignors to Arma Corporation, a corporation of New York
Application December 19, 1938, Serial No. 246,680
10 Claims. (Cl. 33—49)



1. In gun fire control apparatus mounted on an unstable platform, the combination of a movable sight thereon, means responsive to the deviation of the platform from a horizontal plane for moving said sight to compensate for said deviation, means for measuring the rate of movement in bearing of a moving target, means for integrating the measured rate over elapsed time, means for modifying the integrated rate in accordance with a function of the angle of elevation to the target, and means responsive to the modified integrated rate for moving the sight in train independently of said stabilizing movement thereof, whereby the sight will follow the moving target as if mounted on a stable platform.

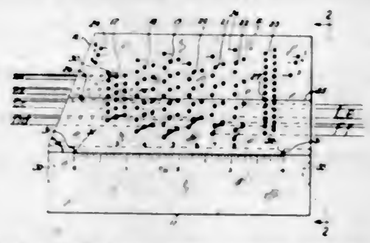
2,658,278
MULTIPLE PRECISION INSTRUMENT AND TOOL
Victor S. Debs, New York, N. Y.
Application December 16, 1949, Serial No. 133,390
2 Claims. (Cl. 33—102)



1. A device of the character described comprising a pair of superimposed rules formed with registering longitudinal slots, means extending through said slots for interconnecting said rules for independent sliding as well as independent

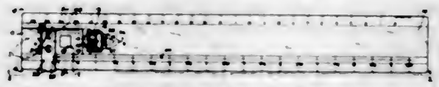
pivotal relative movement, said means being further provided with means for clamping said rules together in various adjusted positions, said rules each being formed at the exposed sides thereof with beveled opposite surfaces extending to opposite edges thereof, said rules each having pointed ends, scales on the beveled surfaces of said rules, and scales at opposite edges of the inner surface of one of said rules, one of said rules being provided with a line proportional divider scale adjacent one edge of the longitudinal slot therein, said last mentioned rule being formed with a circle divider scale adjacent the opposite edge of the longitudinal slot therein, and means on the slider to cooperate with said proportional divider scale and circle divider scale, the other rule being provided with scales to measure lengths at opposite edges of the longitudinal slot therein, and means on the slider to cooperate with said last mentioned scales, the first rule being formed adjacent one end thereof and at the inner surface thereof with a protractor scale, formed partly thereon and partly on the slider which rides freely in said longitudinal slot.

2,658,279
SELF-CONTAINED DRAFTING INSTRUMENT
Roy E. Amundsen, Portland, Oreg.
Application April 29, 1950, Serial No. 159,022
5 Claims. (Cl. 33—104)



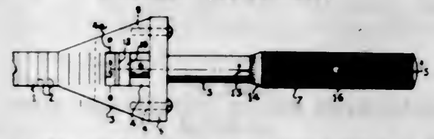
1. A drafting instrument comprising an upper member and a lower member, said upper member having a plurality of vertical columns of holes and a single hole above each of said columns, and holes lying adjacent the side edges of said upper member in longitudinal alignment with said uppermost holes in said vertical columns for aligning the instrument to coincide with an established reference line.

2,658,280
COMBINED MICROMETER DEVICE AND SCALE
Eugene C. Olney, Bellingham, Wash.
Application November 24, 1950, Serial No. 197,465
6 Claims. (Cl. 33—107)



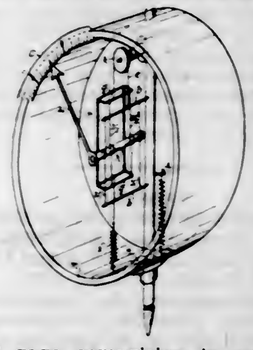
1. In a micrometer scale, a base member having a scale marked thereon along one edge portion thereof; a micrometer slide block movable longitudinally of said base member; scale means marked on said slide block and said base member adapted to indicate the general setting of the slide block relative to the scale on said base member; spring means urging said slide block in one direction; micrometer screw means adapted to move said slide block against the pressure of said spring means; a dial carried by said micrometer screw means; other scale means on said dial and said base member cooperating to indicate the exact setting of the slide block relative to the base member; and an index member carried by the slide block cooperating with the scale which is marked on said base member along an edge thereof.

2,658,281
LINEAR SCALE WITH MICROMETER ATTACHMENT
Donald E. Chappell, Detroit, Mich.
Application December 13, 1952, Serial No. 325,831
1 Claim. (Cl. 33—107)



A linear measuring device comprising a scale having an enlarged portion adjoining an end of such scale and having a rectangular pocket opening into such portion from said end and having a set of graduations extending lengthwise of the scale substantially from said pocket, a measuring block slidable in said pocket lengthwise of the scale and having a top face substantially in the plane of the graduated face of the scale and having an index mark registrable with zero of the scale graduations, a barrel forming an endwise extension from said enlarged end portion, such barrel having a terminal enlargement abutting said end of the scale and bridged across said pocket, means rigidly securing said terminal enlargement to the scale, a spindle rotatable in and having a screw threaded connection to the barrel and projecting through said terminal enlargement into said pocket, a connection from the spindle to the measuring block establishing a unison of sliding travel between the spindle and block and affording the spindle rotation relative to the block, a thimble slidably and rotatively embracing the barrel, and means for rotatively actuating the spindle from the thimble, the thimble having a circularly graduated end, and the barrel having index means correlated with the thimble graduations.

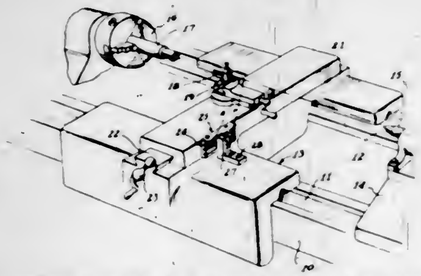
2,658,282
DIAL INDICATOR
Miroslav Německý, Nove Mesto na Morave, Czechoslovakia
Application February 28, 1949, Serial No. 78,848
Claims priority, application Czechoslovakia March 5, 1948
11 Claims. (Cl. 33—172)



1. A dial gage comprising in combination a casing, a shaft, a pointer operatively connected

therewith so as to be moved thereby, a scale cooperating with the pointer, a measuring member adapted to be displaced in dependence on the value to be measured, a set of carriers rigidly secured to said member, a system of fibres mounted on said carriers under suitable tension and wound around said shaft, a roller mounted for rotation in the casing, a frame carrying another system of fibres also wound around said shaft in opposite direction and at its opposite sides, a flexible element extending around said roller and secured by one end to one of said carriers and by its other end to the said frame, a spring rigidly anchored with one end in the casing, having its other end secured to the said frame.

2,658,283
MEASURING BLOCK DEVICE FOR TOOL LATHES
Nino Ciccone, New York, N. Y., assignor of one-half to Stephen Lusick, Brooklyn, N. Y.
Application June 5, 1952, Serial No. 291,945
1 Claim. (Cl. 33—185)



A measuring block device for a tool lathe comprising an angle part having a horizontal portion adapted to be fixed to a tool lathe carriage and having a vertical portion with vertically spaced openings therein, another part having horizontally extending guideways and adjustable members disposed respectively in the guideways, clamping means associated with each member for fixing said member to the guideways, each member having an opening therein, a pin insertable through a selected one of the openings of the vertical portion of the one part for engagement with an aligned opening of an adjustable member to retain said portion and the selected adjustable member in aligned relation, said clamping means comprising a part slidable in said guideway, screws disposed on the opposite ends of the part and another part having openings therein for receiving said screws, whereby the parts of the member are fixed to the guideway when the screws are tightened, each member being longer than the width of the vertical portion of the one part so that the screws of the clamping means are accessible from the opposite side of the vertically extending portion of the one part and may be tightened while the pin is in the opening of the member.

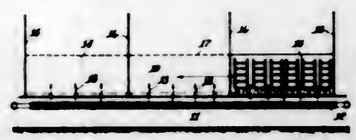
2,658,284
CONTINUOUS DIRECTIONAL DRILLING
Jan Jacob Arps, Tulsa, Okla.
Application January 3, 1949, Serial No. 68,930
32 Claims. (Cl. 33—205)

16. In an arrangement for measuring the inclination and/or direction of a borehole at a given depth adapted to be used in conjunction with a rotary drilling system utilizing a circulating stream of drilling fluid, the combination of: an exploring means adapted to be lowered to said depth, said exploring means comprising an inclination sensing element for producing a signal representing the inclination of the borehole;



a tracer substance; and a releasing means adapted to release said substance into said circulating stream in accordance with said signal, thereby causing said substance to be carried by said circulating stream to the earth's surface.

2,658,285
PROCESS AND APPARATUS FOR THE DRYING OF CERAMIC GOODS
Gottfried Marius Josef Cremer, Frechen, near Cologne, Germany
Application September 24, 1949, Serial No. 117,691
7 Claims. (Cl. 34—34)

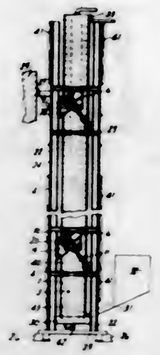


1. Process for the drying of ceramic goods in drying chambers in a vertical naturally induced warm air stream which escapes through the chamber top characterized in that the chamber top is closed by covers of different porosities which are applied selectively and subsequently during the drying process to vary the effective permeability of the chamber top.

2,658,286
HELICAL VIBRATORY CONVEYER
William V. Spurlin, Indiana, Pa., assignor to Syntron Company, Homer City, Pa., a corporation of Delaware
Application August 31, 1949, Serial No. 113,290
12 Claims. (Cl. 34—147)

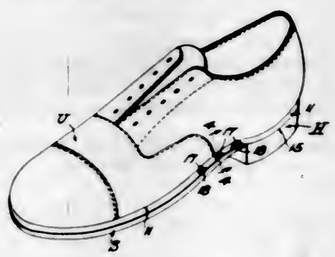
7. A structure of character described consisting of a hollow vertical frame, resilient isolators for supporting said frame, a conveyor within the frame having a vertically disposed central tube with a helical conveying surface secured thereto which has inlet and outlet openings for receiving and discharging materials at different elevations, a plurality of spring means attached to said conveyor intermediate of its ends, said spring means secured to said frame to support the conveyor for reciprocation in a confined inclined arcuate path of movement, a plurality of

electromagnetic reciprocating motors energized by current impulses, and means for mounting said motors symmetrically to the central axis of the conveyor to be effective in imparting their magnetic forces to be effective in reciprocating said conveyor in its confined inclined arcuate path of movement.



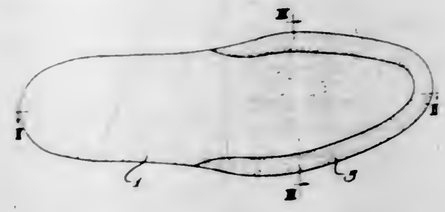
12. The structure of claim 7 which also includes a hood enclosing said frame and conveyor, a conduit opening into the chamber formed by the hood, and a second conduit connected to one end of said tube for circulating conditioned fluid through the hood and the tube to be effective in treating the material handled by the conveyor.

2,658,287
WELT SHOE HAVING A REMOVABLE WELT
Leo Bazzell, Brockway, Pa.
Application February 6, 1951, Serial No. 209,623
5 Claims. (Cl. 36—1)



1. The combination with a shoe having an upper and a sole with an edge portion projecting beyond the upper to form a channel between the sole and upper, the channel having an in-curved portion, of a decorative mock welt strip for removable positioning in said channel on the projecting portion of the sole and against the upper, said strip being flexible and elastic and longitudinally stretchable throughout its cross-sectional area, and means removably retaining said strip in said channel in a longitudinally stretched condition and under tension to cause it to exert a yieldable pressure against the upper at all times, said means including a row of longitudinally spaced fasteners fixed between the sole and upper of the shoe along the in-curved portion of the channel and projecting upwardly in spaced relation to the adjacent portion of the upper, a portion of said stretchable elastic strip being sprung over said fasteners and removably held by the latter in pressured contact with the opposed portion of the upper along the in-curved portion.

2,658,288
MOLDED AND TAPERING LATEX INSOLE FOR FOOTWEAR
William M. Scholl, Chicago, Ill.
Application July 28, 1951, Serial No. 239,030
1 Claim. (Cl. 36—44)



A laminated insole for free disposition in an article of footwear, comprising a single relatively thin sheet of molded foam latex, said sheet being substantially flat and steadily and evenly decreasing in thickness from the rear end to the forward end to leave ample toe room in the article of footwear, said sheet being widely skived on the margin of the underside only and only around the forward portion thereof to compensate for variances from the flat in the footwear construction, the area within the skiving being substantially flat, and a thin smooth cover over the upper face of said sheet and of the same overall size as said sheet.

2,658,289
FOOTWEAR CALK ASSEMBLY
Herbert S. Schrieber, Sleepy Eye, Minn.
Application June 21, 1951, Serial No. 232,754
1 Claim. (Cl. 36—59)

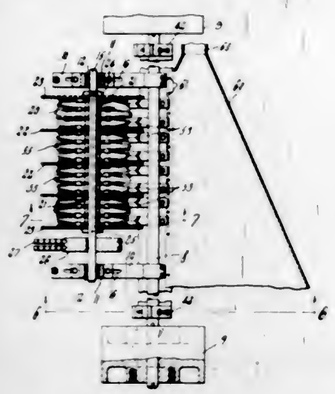


A calk for an anti-slip footwear-converting device having a plate of durable flexible material for supporting such calks, said calk comprising a generally conically shaped body having a vertically extending and downwardly tapering core portion of relatively hard metal and a core enveloping portion of relatively soft metal whereby the lower end of said body will be automatically maintained in a sharpened condition, said body having a pair of upstanding piercing portions extending upwardly from its upper end adapted to pierce such a plate from below and to be clinched thereover in opposite directions to rigidly and fixedly secure said body to the underside of such plate.

2,658,290
PEAT MILLING AND HANDLING MACHINE
Frederick E. Pierce, Hanover, N. H.
Application January 13, 1951, Serial No. 205,877
6 Claims. (Cl. 37—3)

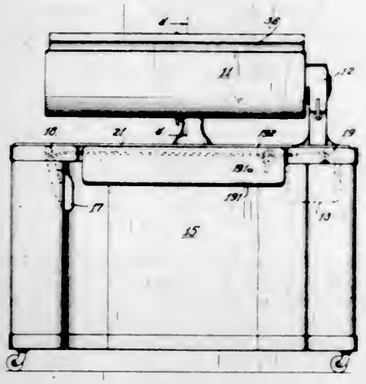
6. A rotary peat treating device comprising a shaft, means supporting said shaft for rotation, circular brushes carried by said shaft along its length, and circular saws of larger diameter than said brushes arranged at intervals along and

fixed to said shaft between certain of said brushes, the central lengthwise portions of said brushes



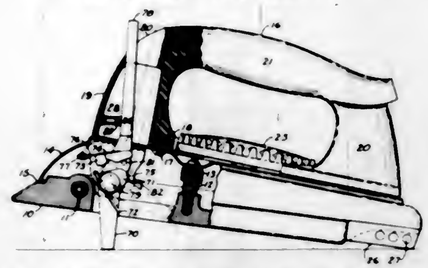
between adjacent saws being of larger diameter than the remainder of said brushes.

2,658,291
AUTOMATIC IRONING SHOE RELEASE
John A. Castricone, Peoria, Ill., assignor to Altorfer Bros. Company, Peoria, Ill., a corporation of Illinois
Application May 18, 1948, Serial No. 27,720
6 Claims. (Cl. 38—61)



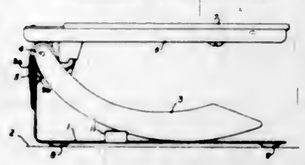
1. In a pressing machine, an ironing member, a pressing shoe cooperating with said member, means for controlling said shoe comprising a pair of aligned shafts the drive one of which is connected with the shoe to move said shoe in one direction, a clutch having a slidable clutch pin connecting said shafts together, a lap board mounted upon said machine for upward and downward swinging movements, a link pivoted to said lap board and having a slot in its free end portion, a second link having a slidable pin connection with said slot, a bell crank lever pivoted to the machine and having one arm thereof connected to said second link and a third link connecting the other arm of said bell crank lever with said clutch pin whereby upward movement of said lap board will withdraw said pin and disconnect said clutch, said slot allowing said lap board to be swung downwardly.

2,658,292
SUPPORT FOR ELECTRIC IRONS
Herbert W. Wilson, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 23, 1947, Serial No. 793,433
22 Claims. (Cl. 38—79)



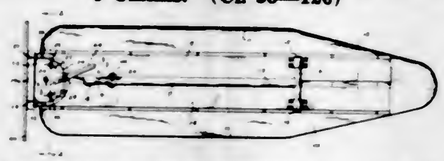
1. A smoothing iron comprising, a sole plate, a cover shell secured to said sole plate and extending rearwardly therefrom, an air cooled supporting extension secured underneath the rear extension of said cover shell, a manipulating handle having a front supporting post secured to said cover shell, a bracket secured to the under surface of said cover shell beneath said handle adjacent the front of said cover shell and supporting means movably secured to said bracket, said supporting means having a portion extensible to lie below the lower face of said sole plate adjacent its front end and means normally maintaining said portion above the lower face of said sole plate, said extensible portion in its extended position being positioned below the lower face of said sole plate a distance such that when said portion is extended the iron may be supported in an inclined position on a supporting surface by said portion and by said supporting extension with the sole plate free of the supporting surface.

2,658,293
STAND FOR TRAVEL IRONS
Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application February 1, 1951, Serial No. 208,880
1 Claim. (Cl. 38—96)



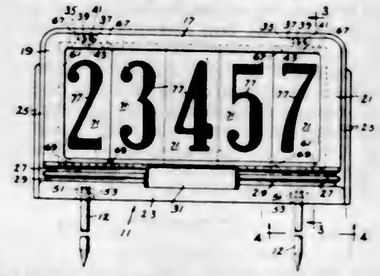
The combination with a flatiron having a soleplate, a handle extending therefrom and a plug receptacle having end and side walls for removably receiving a plug connector at one end of the iron, of a readily detachable stand for supporting said iron in an inverted position comprising a flat rectangular sheet metal horizontal base, depressions in said base forming feet for said base, an upright wall forming a continuation of one end of said base extending normal to the base, said upright wall having two slots therein forming three tangs, the outer of said tangs being in supporting engagement with the flatiron on either side of the plug receptacle, and said slots being greater in width than the thickness of the side walls of the plug receptacle, the center one of said tangs removably engaging with an end wall of said receptacle and being held in engagement therewith by a plug connector when inserted in the receptacle, the length of said tangs being such that an inverted flatiron will be held on said stand with one end of said iron supported by said outer tangs and the other end supported by a portion of the handle resting on the base at a point remote from said tangs, and with movement of the iron relative to said stand being prevented by the said center tang engagement.

2,658,294
IRONING BOARD MOUNTING STRUCTURE
Matthew R. Hull, Connersville, Ind.
Application January 13, 1950, Serial No. 138,456
5 Claims. (Cl. 38—126)



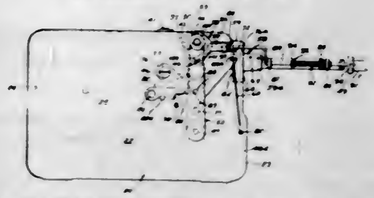
2. An ironing board mounting comprising a plate attachable to the under side of the board at the rear end thereof; an elastic U-shaped member defined by a pair of legs and an arcuate web interconnecting the legs; guide means at the rear edge of said plate slidably supporting said legs for fore and aft travel in relation to said plate; said web being disposed in superimposed relation to said plate; a downturned foot on the end of each of said legs extending rearwardly of said guide means; a lever rockably mounted on said plate to swing about an axis across said web; a member carried by said lever to engage said web; said member being spaced from said lever axis a distance greater than the normal distance from that axis to said web; a mounting bracket having means detachably engageable by said feet; said elastic member being tended to be pulled forwardly by rocking of said lever to carry said member into engagement with said web whereby, through engagement by said feet with said bracket means, said plate is urged compressively against said bracket.

2,658,295
LUMINOUS SIGN
Don H. Young and George A. Houseman, Phoenix, Ariz.
Application October 25, 1948, Serial No. 56,416
2 Claims. (Cl. 40—125)



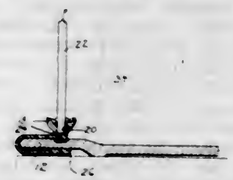
1. A sign comprising in combination a pair of opposed frame members adapted when assembled together to form a substantially enclosed unitary hollow structure for exhibiting sign elements on two generally opposing faces thereof, said members each including a pair of dissimilar upper and lower connecting lugs so arranged that a short lug on each member connects with a long lug on the other and vice versa, and a stake member adapted to be driven into a supporting base and projecting through a lower and upper set of said lugs to hold the opposed frame members together.

2,658,296
MACHINE FOR ATTACHING ARTIFICIAL STEMS TO BLOSSOMS
Charles M. Andersen, Los Angeles, Calif., assignor to Floyd R. Honn, Arcadia, Calif.
Application September 5, 1950, Serial No. 183,232
9 Claims. (Cl. 41—2)



1. A machine for forcing lengths of wire through objects such as flowers, comprising: a frame, an object holding member carried by said frame, means connected with said object holding member to move said member with respect to said frame, a wire supply spool carried by said frame, a pair of wire feeding rollers mounted in the frame to draw wire from the supply spool and force it forwardly, a fixed pivot carried by said frame on which one of said feed rollers is mounted, a pivotally mounted support mounted on said frame on which the other feed roller is mounted, resilient means effective to urge said pivotally mounted feed roller support and the feed roller mounted thereon toward the other feed roller of the pair, a member carried by said frame and positioned to guide the wire from the feeding rollers outwardly of the frame, an elongated member extending outwardly from said frame and having a longitudinal channel therein open at each end and adapted to receive wire from said member which guides the wire out of the frame and then support said wire while it is forced by said feeding rollers through its outer end into and through one of the aforesaid objects that is held by said object holding member, and said object holding member moving means operable to move said holding member toward one end of said longitudinal channel, means effective to sever the wire between the frame and said longitudinally extending member after a predetermined length of wire has been drawn from said supply spool, and operative means carried by said frame effective to positively rotate said feed rollers and to automatically operate said wire severing means.

2,658,297
CAKE PLATE AND DECORATING DEVICE
Phyllis Ann Woolsey, Indianola, Iowa
Application September 4, 1951, Serial No. 244,881
4 Claims. (Cl. 41—10)



1. The combination of a plate having a rim; said plate having a depression arranged in its

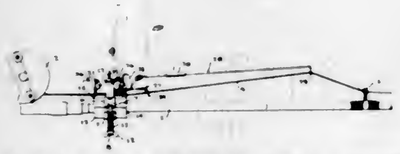
rim, a spring clip slidably and frictionally engaging said plate rim, a bulge formed on the inside of said spring clip and entering said depression to aid in frictionally securing said spring clip to said plate rim.

2,658,298
SHOTGUN BARREL AND CHOKE
George G. Oberfell, Bartlesville, Okla.
Application February 27, 1950, Serial No. 146,558
9 Claims. (Cl. 42—79)



1. A shotgun choke comprising in combination a tube having a bore, said bore having an inlet end and an outlet end for shot pellets, a portion of said bore being tapered with a decreasing diameter in the direction of said outlet end to choke said shot, said tube being adapted to be disposed with its inlet end aligned with and communicating with the muzzle of a shotgun barrel to form a continuation thereof of initially the same internal diameter, the walls of said tube forming the decreased diameter tapered portion of said bore being formed with alternate transverse lands and transverse grooves in which the angle of the shoulder formed between the wall forming the outlet end side of each groove and the adjacent land in the direction of said outlet end is an obtuse angle whereby shot pellets fired through said bore of said choke are agitated without undue deformation by alternate expansion of some of said pellets into said grooves and contact with said shoulders.

2,658,299
HOOK-SETTING DEVICE
Harold E. Maxfield, Laramie, Wyo.
Application July 24, 1951, Serial No. 238,207
3 Claims. (Cl. 43—15)



1. A device of the class described comprising, in combination with a fishing rod having a reel and a line wound upon the reel and extending to the tip of the rod, a clamp member adapted for attachment to said rod between the reel and tip; a supporting means overlying the clamp member; means rigidly connecting the clamp and supporting means, the supporting means having apertures for passage of said fishing line loosely therethrough; a rod member pivotally mounted at one end upon the supporting means, said rod member having its other end disposed between the supporting means and rod tip and having an eye at said other end for passage of the fishing line therethrough; a trigger, means pivotally mounting the trigger upon the supporting means, said trigger having means at one end through which said line is loosely extended, the other end of the trigger being releasably engageable with the rod member; and a spring mounted upon the supporting member and engaged with the rod member for swinging the rod member upwardly responsive to pull exerted upon the line by a fish tending to release the trigger.

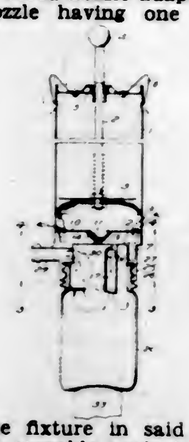
2,658,300
HOLDER FOR FISHING LINE LEADERS
Harold R. Snyder, Perkasie, Pa.
Application November 7, 1951, Serial No. 255,171
4 Claims. (Cl. 43—57.5)



1. For use in an angler's tackle box, a holder and carrier for leaders comprising an elongate hollow buoyant body having an axial socket at one end the side wall of which is endless and serves as a hanging and retaining edge for a plurality of fish hooks, said body having a head at its other end, the marginal portion of said head projecting beyond the peripheral surface of said body and having circumferentially spaced coil spring accommodating holes therein, said body also having an outstanding flange on its intermediate portion in spaced parallelism with said head, said flange having circumferentially spaced coil spring receiving and accommodating holes therethrough in alignment with said first mentioned holes, an attachable and detachable wire unit carried by said head and having circumferentially spaced U-shaped spring anchoring loops, the latter being arranged in the holes in said head and having bight portions projecting accessibly beyond an adjacent surface of said head, and a plurality of coil springs individually arranged in the respective holes in said flange, said springs having hooks at their outward ends attached to said loops, the inward ends of said springs projecting through and beyond the holes in said flange and also having hooks formed therein, the latter hooks being arranged for attachment and retention of the usual looped ends on fishhook leaders.

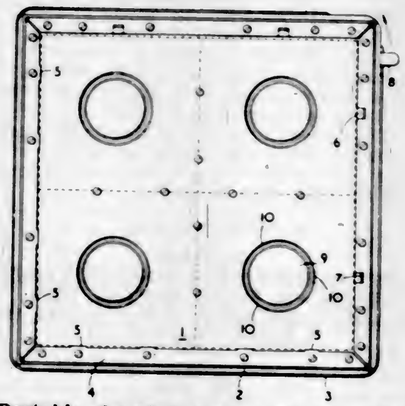
2,658,301
MANUALLY OPERATED PUMP DUSTER
Wallace D. Merrill, Monrovia, Calif., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application July 28, 1950, Serial No. 176,348
3 Claims. (Cl. 43—147)

1. In combination, a pump barrel having a reciprocatable pump plunger therein, a receptacle adapted to contain dust to be ejected, a fixture mounted between and attached to the barrel, said fixture being provided with an aperture communicating with the barrel and an air outlet through which air from the barrel may be ejected, and an axially bored nozzle adapted to be oscillated, said nozzle having one end rotatably



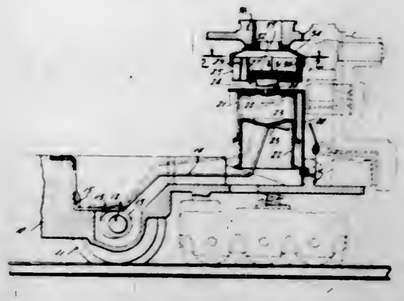
mounted in the fixture in said aperture, the other end being movable against the inner face of the air outlet in the fixture and also movable to a position in which its longitudinal axis is parallel to the axis of the container so as to direct air from the barrel against dust in the receptacle.

2,658,302
APPARATUS FOR MAKING DRAWINGS
Charles Lamond Yarborough Parker, Crowborough, Charles William Emery, Surbiton, and Tom Brian Smith, Petts Wood, England, assignors to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England
Application June 4, 1948, Serial No. 31,024
Claims priority, application Great Britain June 18, 1947
11 Claims. (Cl. 45—131)



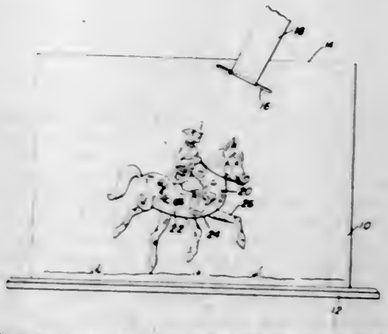
1. Portable drawing apparatus comprising a bed having a plurality of apertures therein, a suction device in each of said apertures, each suction device having a cup formed of resilient material engageable with a sheet of drawing material, the said cup being evacuated solely by its own deformation when pressure is exerted between the cup and the sheet, so that a plurality of said sheets may be held on to said bed to maintain them in co-planar relationship, and means for engaging said sheets in edge-to-edge contact with one another.

2,658,303
TOY SMOKE-PRODUCING APPARATUS
Frank Pettit, Union, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application December 16, 1947, Serial No. 792,108
6 Claims. (Cl. 46—9)



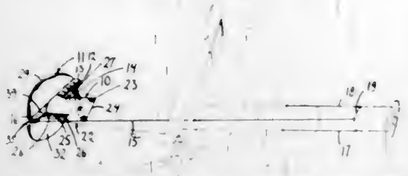
4. In a smoke-producing toy, a housing having a cup-shaped receiver for smoke-producing material, the housing wall having a vertical passageway lateral of and close to the receiver and opening downwardly and upwardly, a cover over the housing, the cover being spaced above the upper end of the passageway and having an exhaust flue, an electric heater in the receiver, and means for producing intermittent one way blasts of air directed upwardly through the passageway.

2,658,304
ANIMATED DISPLAY PLACARD
Joseph G. Ferrier, Riverdale Heights, Md.
Application May 14, 1951, Serial No. 226,208
7 Claims. (Cl. 46—36)



1. An animated display device comprising a placard having a configuration thereon, a plurality of spaced slots adjacent the configuration, an operating tab, a plurality of members extending radially from said tab and having indicia thereon in cooperation with the configuration to produce a unitary picture, each of said radially extending members extending slidably through one of said slots, an elongated slot adjacent one edge of said placard, said operating tab being of lesser width than said elongated slot and movable through the latter, and means pivotally connecting the inner ends of said radially extending members to said tab whereby a combined sliding and rotary movement of said tab in said elongated slot will cause the radially extending members to move in and out of and oscillate in said spaced slots.

2,658,305
TETHERED TOY AIRPLANE CONTROL
Luther Hayes, Bellflower, Calif.
Application May 2, 1950, Serial No. 159,619
6 Claims. (Cl. 46—77)



2. Apparatus of the character described for controlling the flight of a power propelled captive type U-control tethered toy airplane having wings and a movable control element including: one single air deflecting member mounted pivotally in a vertical plane on one wing only, spring means connected between the wing and the air deflecting member on one side of the point of pivotal mounting of said air deflecting member, and a single guide line connected to the air deflecting member on the opposite side of the point of pivotal mounting of said air deflecting member and extending from it to an operating point outside of the airplane.

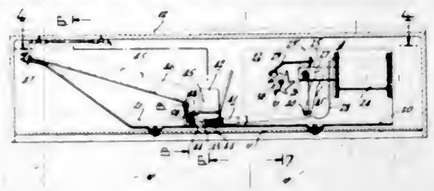
2,658,306
CLIMBING TOY
William J. Holt, Jr., Garland, Tex.
Application May 19, 1950, Serial No. 163,014
12 Claims. (Cl. 46—132)



12. An animated toy comprising an upright elongated member having a vertical longitudinal axis; a vibrator connected to said elongated member for vibrating said member parallel to said vertical longitudinal axis; a figurine slidably mounted on said elongated member; a catch pivotally mounted on said figurine and having an edge adapted to engage said elongated member and constrain said figurine to move upwardly with said elongated member during upward movements of said elongated member and to allow said figurine to slide along said elongated member during downward movements of said elongated member, the inertia of said figurine allowing upward movement of said elongated member relative to said figurine when said elongated member is moved upwardly during vibratory movement of said elongated member.

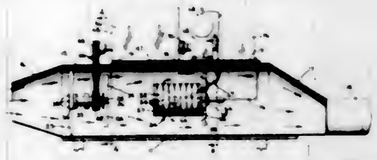
2,658,307
MERCHANDISE UNLOADING TOY CAR
Frank Pettit, Union, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application October 23, 1946, Serial No. 705,017
3 Claims. (Cl. 46—218)

1. In a toy car, a base, an article ejector pivoted to the base to swing about a horizontal axis, the ejector having a normally horizontal platform and an apertured depending side flange, a sloping chute having its upper end loosely secured to an upwardly extending end



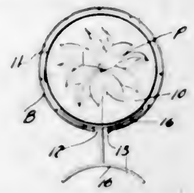
of the base and its lower end adjacent the platform of the article ejector, the chute having an extension entering the aperture in the flange and engageable therewith to lift the lower end of the chute when the ejector is actuated.

2,658,308
CROP HEATING DEVICE FOR PREVENTING FROST DAMAGE
William R. Fowler, Jr., and Bobby R. McGill, Selma, Calif.; said McGill assignor to said Fowler, Jr.
Application March 8, 1949, Serial No. 80,182
4 Claims. (Cl. 47—2)



4. A crop heater comprising an elongated holhol housing supported longitudinally of a movable supporting device in substantial axial alignment with the direction of movement of said device, the housing having a forward end defining an intake opening and rearward end portion defining a discharge chamber in general axial alignment with said intake opening, a plurality of outlet conduits extended from the lower portion of said discharge chamber divergently generally laterally, means for forcing air longitudinally of said housing, and means contained in the housing axially aligned with and between said intake opening and said discharge chamber and spaced from the inner periphery of said housing for heating the air as it moves longitudinally through said housing.

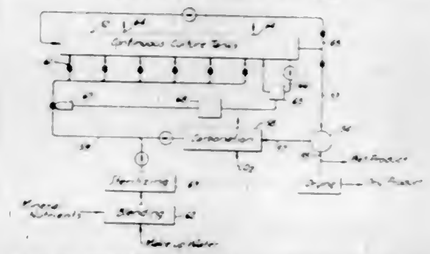
2,658,309
PLANT BASKET REMOVING IMPLEMENT
William M. Schlitt, Bay City, Mich.
Application September 27, 1949, Serial No. 118,109
6 Claims. (Cl. 47—37)



1. A one-piece plant handling implement for insertion in a separable wire basket, in which a plant and balled earth is contained, said implement comprising opposed, laterally spaced-apart

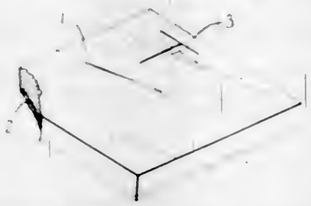
concave-convex sections arcuately shaped in cross section, one of said sections being insertable in the basket between the basket and balled earth, and adapted, when tilted to inclined position, to support the plant thereon and permit free removal of said basket, a division plate connecting said opposed convex faces of the sections, and openings in said division plate to facilitate handling of said implement.

2,658,310
APPARATUS AND PROCESS FOR THE PRODUCTION OF PHOTOSYNTHETIC MICROORGANISMS, PARTICULARLY ALGAE
Paul M. Cook, Palo Alto, Calif., assignor to Carnegie Institution of Washington, Washington, D. C., a corporation
Application December 22, 1950, Serial No. 203,429
26 Claims. (Cl. 47—58)



1. In a process for the production of photosynthetic microorganisms, the steps of maintaining a body of a nutrient-containing aqueous medium, causing cells of a photosynthetic microorganism to grow in said medium while the body is exposed to light, maintaining said cells in motion in said body during their growth therein, and continuously removing grown cells from said body.

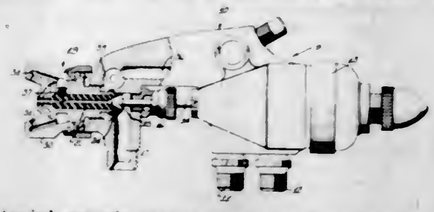
2,658,311
METHOD OF PRODUCING GLASS PLAQUES
Charles H. Goddard, Newburyport, Mass.
Application February 7, 1951, Serial No. 209,789
1 Claim. (Cl. 49—79)



The method of producing a photographic plaque, which method comprises: irradiating a plate of photographic glass with an ultraviolet image to produce a latent image therein; applying a powdered ceramic coating to one side of said plate; and then baking the glass to develop the latent image, and to harden the ceramic coating to seal it to the glass.

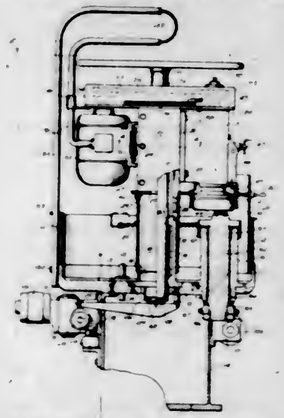
2,658,312
SPRAY GUN NOZZLE FOR SPRAYING BUFFING COMPOUNDS
Leslie W. Smith, Berkley, Mich.
Application January 26, 1951, Serial No. 208,014
3 Claims. (Cl. 51—8)

1. In a spray nozzle, a housing provided with an elongated tubular passage, a yieldable tube of a resilient material of the class consisting of rubber and synthetic rubber, said tube being snugly fitted in the passage with one end positioned to discharge material therefrom, a material supply passageway in said housing communicating with the other end of said tube, a movable valve cooperable with the other end of the tube to open and close it in communication with said



material supply passageway, said other end of said rubber tube having a countersunk valve seat about the bore of the tube and said valve having a conical-like head cooperable with said countersunk seat whereby said other end of said tube resiliently engages said valve head with the valve in closed position.

2,658,313
GRINDING MACHINE
Alfred J. Bowen, Beloit, Wis.
Application November 23, 1949, Serial No. 129,149
23 Claims. (Cl. 51—131)



1. In a grinding machine, a base, a vertical column extending upward from said base, a bearing member rotatable and slidable on said column, a grinding wheel and a driving motor therefor mounted on said bearing member, a nut disposed coaxially with said column and fixed to said bearing member, a micrometer screw threaded in said nut, a thrust bearing supporting said screw on said column, a hand wheel rotatably mounted on said bearing member, said hand wheel being disposed in a horizontal plane with its center on the axis of said column, and a driving connection between said hand wheel and said screw, whereby rotation of said hand wheel rotates said screw in said nut to raise or lower said bearing member on said column.

2,658,314
LAPPING TOOL
Abraham Simons, Monsey, N. Y.
Application September 11, 1951, Serial No. 246,017
5 Claims. (Cl. 51—184.1)

4. A lapping tool which has a longitudinal axis, said tool comprising a plurality of longitudinally

disposed lapping members which are flexible and resilient in a direction transverse to said longitudinal axis, said lapping members having original straight shapes, said lapping members having operating front end-portions and non-operating and holding rear end-portions, holding-means which hold said rear end-portions in fixed relation to each other, said front end-portions being bent out of their original straight



shapes to normal bent shapes, said front end-portions diverging transversely from each other in a normal angle of divergence in said normal bent shapes and being biased by their resilience to yieldingly maintain said front end-portions in said normal bent shapes, and supplemental means which hold front end-portions in divergent relation and with an intermediate angle of divergence which is less than said normal angle of divergence.

2,658,315

BUFF AND METHOD OF MAKING SAME

Ruben O. Peterson, University Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application March 17, 1949, Serial No. 81,985

16 Claims. (Cl. 51—193)



14. A buffing element for use in rotary buffs and the like comprising two fabric sheets joined together at their centers but otherwise separated to form a pair of oppositely extending generally conical tubular pleated fingers joined at their respective apices for securing to a hub or like support.

2,658,316

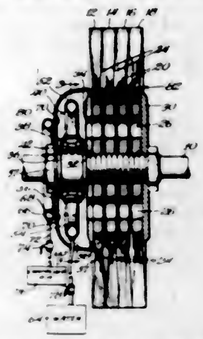
METHOD AND APPARATUS FOR COOLING BUFFS AND POLISHING WHEELS

Joseph R. Davies, Chicago, Ill.

Application September 8, 1950, Serial No. 183,724

5 Claims. (Cl. 51—267)

1. A buffing assembly comprising a shaft, flexible buffing units rotatably mounted on said shaft, a side opening through the walls of the buffs parallel and adjacent to the shaft, means spacing the buffs from each other near the hub so as to form air passageways connecting the first-mentioned opening to the inner side surfaces of the buffs, the flexibility of the buffing units being such that during operation the peripheral surface is substantially continuous so that the air passageways from the hub to the periphery are interrupted by the flexible material of the buffing



unit, means for forcing an air stream under pressure into said opening and against the inner side walls of the buffs, and means for introducing particles of water into said air stream at a point near said opening.

2,658,317

PROCESS OF WORKING GLASS

Willard L. Morgan, Pittsburgh, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application February 23, 1951, Serial No. 212,503

8 Claims. (Cl. 51—283)

1. In the process of working glass, the steps of removing small particles of glass from the main body, applying and recirculating a fluid aqueous cooling media to the area of working during the removal of said particles, and adding an acid reacting material to said cooling media in sufficient quantity to maintain the pH of a solution of the glass particles in the cooling media at a value of less than 8.5 and over 4.

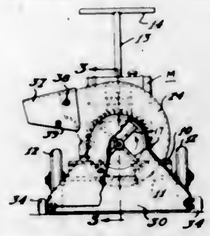
2,658,318

SUCTION LEAF PICKUP AND PULVERIZING DEVICE

Oliver C. Miller, Cincinnati, Ohio

Application October 30, 1951, Serial No. 253,788

5 Claims. (Cl. 55—118)



1. An apparatus for the purpose described, comprising a mobile frame, a power driven shaft mounted on said frame, a centrifugal impeller on said shaft, a volute casing surrounding said impeller and having a perforated cylinder therein concentric with said shaft, said casing having a tangential discharge orifice, said casing having an axial intake opening, and a leaf duct communicating with said axial opening, said leaf duct having an intake opening adjacent the ground, whereby leaves are sucked in through said leaf duct by said impeller and pulverized by the coaction between said impeller and perforated cylinder, and the pulverized leaves are blown out through said discharge orifice by said impeller.

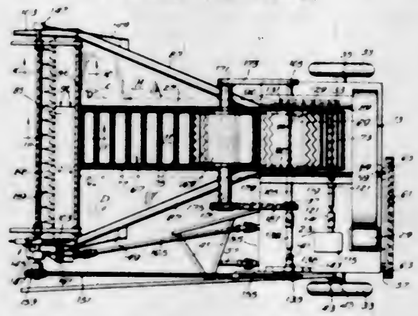
2,658,319

FIELD OR ROW CROP FORAGE HARVESTER

Charles W. Hansen, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin

Application January 28, 1948, Serial No. 4,830

3 Claims. (Cl. 56—2)



1. A basic crop handling unit adapted for use, selectively, with field crop and row crop harvesting attachments comprising, a wheel supported frame, an elongated conveyor, a support means for said conveyor secured to said frame in a position overlying said frame and extending forwardly and downwardly therefrom to a position in front of said frame, a sickle bar support mounted on the forward end of said conveyor support transversely of said elongated conveyor, a sickle bar fixed to said sickle bar support, attaching means fixed to the forward portion of said conveyor support means in position for detachable connection with the harvesting attachments, a pair of spaced-apart members extending upwardly on opposite sides of said conveyor at the rearward portion of the latter, said spaced-apart members each including additional attaching means for connection with a harvesting attachment, and a draw bar structure fixed to said frame and extending forwardly therefrom in laterally spaced relation to said conveyor support means and conveyor.

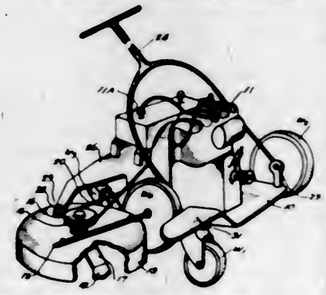
2,658,320

DISK TYPE LAWN MOWER

Maurice Gelinas, L'Abord a Plouffe, Quebec, Canada

Application May 15, 1952, Serial No. 287,860

2 Claims. (Cl. 56—25.4)



1. A self-powered lawn mower comprising a frame, a pair of wheels rotatable on a common axis for supporting opposite sides of said frame, a circular housing horizontally supported laterally of one side of said frame closely adjacent to one of said wheels, an engine-operated cutter rotatable in said housing concentrically thereof the axis of said cutter being closely adjacent to the common axis of said wheels so that said cutter will bodily rise and lower with said one of said pair of wheels according to the surface of the ground on which said wheel travels, a handle pivotally connected to said frame in the common axis of said wheels, and a wheel swivelled to said frame on each side of said one of said wheels and in substantial tandem relationship thereto, all of said wheels being adapted to support said frame above the ground.

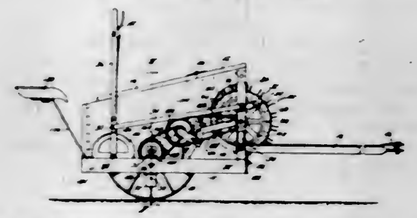
2,658,321

GRASS SEED HARVESTER

Hugh Armstrong, Maryville, Mo., assignor to Armstrong-Carson Manufacturing Company, Maryville, Mo., a corporation of Missouri

Application October 3, 1949, Serial No. 119,353

1 Claim. (Cl. 56—126)



A seed harvester comprising a frame, carried by a pair of substantially axially disposed wheels, a seed box having an open front carried by said frame, means for vertical adjustment of said frame on said wheels, a seed stripping cylinder having an axle mounted for rotation on said frame in the open front of said seed box, downwardly and rearwardly inclined runways carried by said frame and adapted to receive the end portion of the cylinder axle whereby the cylinder may be positioned entirely within said seed box, means releasably securing said axle at the forward ends of said runways, a stripper bar fixed to said frame in operative relation below said stripper cylinder, and means interconnecting one of said wheels with said stripper cylinder whereby the stripper cylinder will be rotated as said harvester is drawn forwardly over a field.

2,658,322

ADJUSTABLE LAWN MOWER HANDLE BRACKET CONSTRUCTION

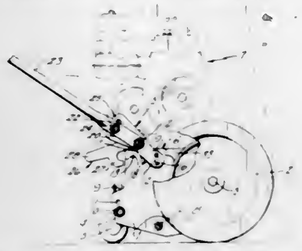
William E. Sullivan, Springfield, Mass., assignor to Savage Arms Corporation, Utica, N. Y., a corporation of Delaware

Application April 12, 1952, Serial No. 282,051

2 Claims. (Cl. 56—249)

1. In lawn mower construction, in combination, a side frame, a plate member pivotally fixed at its lower end on said side frame, stop members spaced forwardly and rearwardly above said pivotal connection of said plate member and limiting the pivotal swinging movement thereof from a rearwardly inclined position against the rear stop member to an upright position against the forward stop, a hook pivoted to said plate member centrally thereof and extendable rearwardly over said rear stop member, said hook being engageable with said rear stop and confining the pivotal swinging movement of said plate

within limits less than the limits between said stop members, a handle brace pivotally mounted at its tip end centrally of said plate and being connected to said plate inwardly of said tip end of the brace, adjustable means for varying the



angular relation of the plate and brace within a limited pivotal swinging path of said brace and means to anchor said brace and plate within the limits of said path for swinging said plate between said stop members.

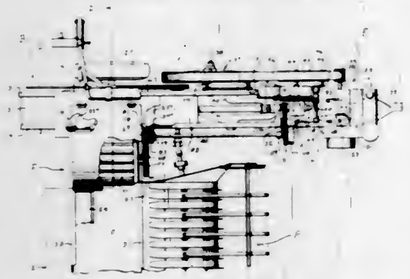
2,658,323

BALER CONVEYING AND FEEDING MEANS

Stanley D. Russell, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation

Original application April 19, 1941, Serial No. 389,396, now Patent No. 2,362,861, dated November 14, 1944. Divided and this application November 11, 1944, Serial No. 563,038

6 Claims. (Cl. 56—341)



1. In a feeding device for a pickup baler having a longitudinally disposed baling chamber providing a feed opening in one side thereof and a pickup drum rotatable on an axis transverse to the length of said baling chamber; the combination of a smooth, endless, friction surfaced apron leading transversely of said baling chamber toward said feed opening substantially normal to the plane thereof and disposed to receive material moving backwardly from said pickup drum, to change its direction and impel it crosswise of said direction toward said opening, supporting means pivoted adjacent to an upper edge of said baling chamber and extending outwardly therefrom, a drum element positioned above said apron and carried by said supporting means outwardly of the pivotal support of said supporting means, as related to said baling chamber for preliminarily compressing material carried by said apron between itself and said apron so as to tend to climb on said material when rotated, and means for rotating said drum element for urging material toward said feed opening concurrently with said apron, said drum element being supported above said apron so as to float on material traveling thereon.

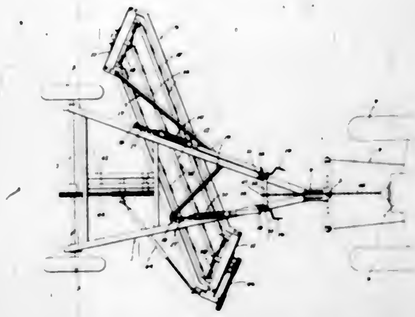
2,658,324

SUSPENSION FOR SIDE DELIVERY RAKES

Roy W. Johnson, Woodland, Calif., assignor, by mesne assignments, to Estand, Inc., San Francisco, Calif., a corporation of Nevada

Application August 2, 1949, Serial No. 108,092

8 Claims. (Cl. 56—377)



1. A side delivery rake comprising a main frame extending in the direction of travel, said main frame being wheel-supported at the rear and adapted to connect at the front to a tractor, a rake assembly extending transversely below the main frame, the rake assembly including a reel, means to drive the reel, means pivotally suspending the rake assembly at the front and intermediate its ends from the main frame for up and down swinging and transverse leveling motion, a pair of transversely spaced bellcrank levers pivoted on the frame above the rake assembly, transversely spaced lift links pivotally connected between the rake assembly at the rear and one leg of the corresponding bellcrank lever, and an adjustable length spring balanced control unit connected between the other leg of each bellcrank lever and a longitudinally spaced point on the main frame; the frame being adapted to connect at the front to a power lift unit at the rear of a tractor, and means adapted to connect between the tractor and said control units operative to simultaneously shift the same in a rake assembly raising direction upon lift of the frame at the front by said power lift unit.

2,658,325

DONNING MECHANISM FOR RING SPINNING, DOUBLING, AND TWISTING MACHINES

James Jackson Haythornthwaite and Thomas Haighton, Accrington, England, assignors to T. M. M. (Research) Limited, Rossendale, England

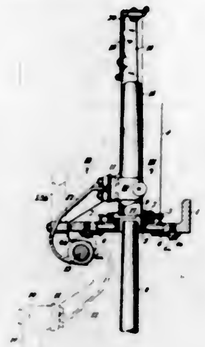
Application November 22, 1950, Serial No. 197,162

Claims priority, application Great Britain December 13, 1949

7 Claims. (Cl. 57—52)

5. In a ring spinning, doubling or twisting machine having a series of spinning units each comprising a spindle and an associated ring, a ring rail common to the spindles upon which the several rings are supported, and mechanism for effecting relative vertical movements of the spindles on the one hand and the ring rail on the other, in combination, a holder for each spinning unit for releasably supporting an empty tube, pirn, bobbin or the like, the holder supporting a tube in the donning position in axial alignment with the spindle so that said tube will be caused to surround and engage the spindle in

driven relation thereto when the spindle and ring rail reach the relation in which the spindle



projects to its maximum extent through the associated ring carried by the rail.

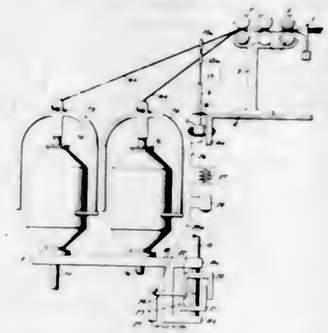
2,658,326

STOP MOTION FOR ROVING FRAMES

Simpson J. Adams, Abbeville, S. C.

Application May 25, 1949, Serial No. 95,231

8 Claims. (Cl. 57—81)



1. In a textile machine having a builder motion for building a textile strand upon a bobbin in successive layers of progressively decreasing length, said builder motion including a pair of traversing jaws which move progressively towards each other, the combination of a slack detector arranged to detect slack in the strand supplied to the bobbin, an electrically operated stop device for said machine having an energizing circuit, a pair of normally open contacts embodied in said slack detector for energizing said circuit when said yarn acquires a predetermined amount of slack, a switch device connected in series with said circuit and comprising a pair of parallel overlapping plates of conducting material mounted upon and movable with said jaws, and including a stationary contact member cooperating with said overlapping plates to control said energizing circuit, said switch device being arranged to maintain said circuit closed so long as said stationary member engages one of said overlapping plates and to open said circuit when said stationary member rides off of said plates at either end of the traversing movement of said jaws.

2,658,327

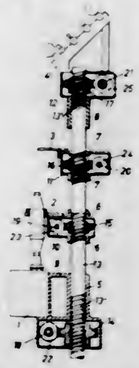
SPINNING MACHINE DRIVE

Johann Jacob Keyser, Aarau, Switzerland, assignor to Schiess Aktiengesellschaft, Dusseldorf-Oberkassel, Germany

Application October 25, 1950, Serial No. 192,132

Claims priority, application Switzerland October 29, 1949

14 Claims. (Cl. 57—92)



9. A spinning machine, particularly slubbing, roving, spinning or twisting frame, which comprises in combination, a plurality of non-rotatable spaced vertical columns respectively provided with vertically spaced threaded portions, a plurality of vertically spaced groups of vertically reciprocable means, said groups being respectively associated with said columns and being guided thereon, and driving means including nut means respectively meshing with said threaded portions and being operatively connected with said vertically reciprocable means.

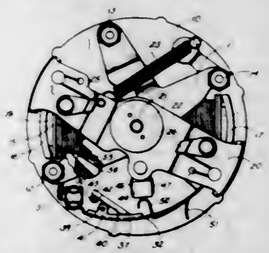
2,658,328

AUTOMOBILE CLOCK

Rodney G. Richardson and Jean Fink, Delavan, Wis.; said Fink assignor to The George W. Borg Corporation, Delavan, Wis., a corporation of Delaware; Rodney G. Richardson, Jr., administrator of said Rodney G. Richardson, deceased

Application July 24, 1948, Serial No. 40,515

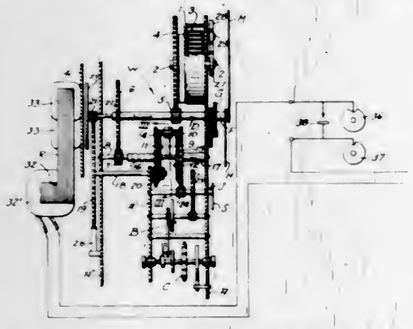
5 Claims. (Cl. 58—41)



1. In a clock, a reciprocating driving member, a main spring for moving said member in one direction to drive the clock, an electro-magnet for moving said member in the opposite direction to tension said main spring, a switch for controlling the circuit of said electro-magnet, said switch including a movable contact member, a permanent magnet mounted on said driving member, an armature pivotally mounted on said contact member and adapted to be attracted by said permanent magnet in one position of

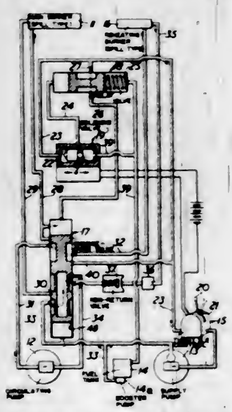
said driving member, and a fulcrum cooperating with said armature to enable the latter to operate as a lever to close said switch.

2,658,329
ELECTRICALLY WOUND AND SET WATCH
Anton R. Nelson, Burlingame, Calif.
Application February 4, 1946, Serial No. 645,325
12 Claims. (Cl. 58—57)



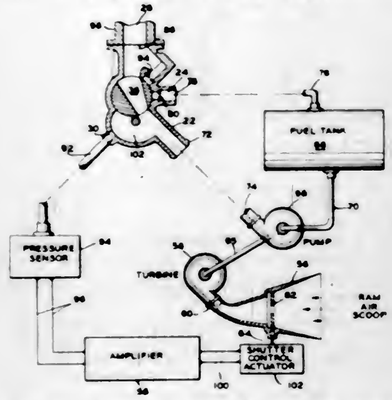
1. In a timepiece, a time indicator, a movement including a driving spring connected to said indicator, a rotor, means mounting said rotor for rotation by a rotating magnetic field when said rotor is within the influence of such field, means connecting said rotor with said spring and with said time indicator for winding said spring and for simultaneously setting said time indicator upon the rotation of said rotor, means to limit the winding of said spring and to fix the setting of said indicator, and means to prevent the reverse rotation of said rotor by said spring upon the removal of said rotor from said field.

2,658,330
LIQUID FUEL SUPPLY SYSTEM FOR INTERNAL-COMBUSTION TURBINES WITH AFTERBURNERS
Frederick Henry Carey, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application November 2, 1948, Serial No. 57,842
11 Claims. (Cl. 60—35.6)



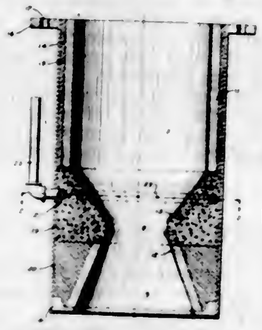
9. In combination with a main burner of the spill type and an exhaust reheating burner of the direct injection type, of an aircraft internal combustion turbine engine, a fuel source, a circulating pump, a first conduit means for circulating fuel normally in a closed circuit which includes said main burner and said circulating pump, a supply pump, normally connected to said first conduit means to augment supply to the main burner, a second conduit means for delivering fuel abnormally from the supply pump to the main burner by way in part of the first conduit means, and from the circulating pump to the reheating burner, also by way in part of the first conduit means, a change-over valve arranged in common in and including elements controlling each of the two conduit means, and shiftable from a normal position wherein the two pumps cooperate to supply fuel to the main burner, and fuel supply to the reheating burner is cut off, to an abnormal position wherein the pumps are isolated, and supply the one the main burner and the other the reheating burner, a throttle lever shiftable through a normal range and also therebeyond in the throttle-opening sense through an abnormal range, means including said throttle lever for regulating supply of fuel from the supply pump, and operable automatically upon movement of the throttle lever into its abnormal range to shift the change-over valve into its abnormal position, and an aneroid-controlled release valve in the second conduit means, and a cooperating pressure-controlled by-pass valve, to regulate supply to the reheating burner, during abnormal operation, automatically in accordance with pressure altitude.

2,658,331
RAM-JET LAUNCHING SEQUENCE FUEL FLOW CONTROL VALVE
Thomas W. Johnson, Troy Hills, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application February 16, 1950, Serial No. 144,504
9 Claims. (Cl. 60—35.6)



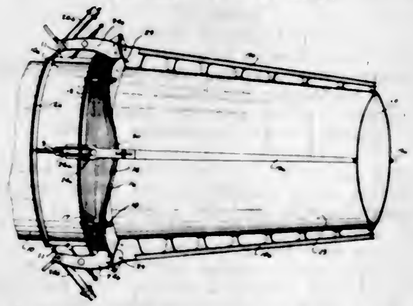
5. In an aircraft having a ram jet engine including a combustion chamber, and a booster rocket releasably secured to said engine to assist in launching the aircraft the combination with said combustion chamber and booster rocket of valve means controlling the quantity of fuel supplied to the combustion chamber, means operatively connecting said booster rocket to said valve means whereby said valve is actuated through said operating means to increase the flow of fuel to the combustion chamber upon the exhaustion of said booster rocket, and regulating means responsive to fuel flow through said valve means for maintaining a constant combustible air-fuel ratio for the combustion chamber during launching of said aircraft.

2,658,332
FLUID COOLED, REFRACTORY, CERAMIC LINED ROCKET STRUCTURE
Kenneth C. Nicholson, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application March 21, 1951, Serial No. 216,757
10 Claims. (Cl. 60—35.6)



3. A device for the combustion and directional release of hot gases comprising a combustion chamber having the walls thereof composed of a dense, hard, prefired ceramic refractory body, a discharge nozzle adjoining the combustion chamber with the end of the nozzle abutting the forward end of the combustion chamber walls and converging therefrom to a nozzle throat of reduced cross-sectional area, the walls of said nozzle being composed of a porous but hard, prefired ceramic refractory body, and an exit cone adjoining said nozzle, said exit cone walls being composed of a dense, hard prefired ceramic refractory body, the aforesaid combustion chamber, nozzle and exit cone being encased in axial alignment in an outer cylindrical metal shell and seated therein by an intervening mass of refractory cement, at least that portion of the refractory cement backing up the nozzle walls of the device having an open porous body structure, and cooling means embedded in said refractory cement encircling the nozzle walls for introducing a fluid coolant to the refractory walls of said nozzle.

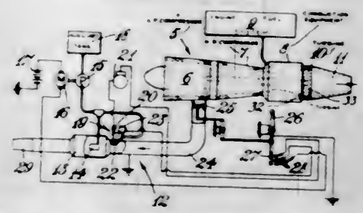
2,658,333
VARIABLE AREA DISCHARGE NOZZLE FOR JET ENGINES
Antoni J. Smialowski, Ottawa, Ontario, Canada, assignor to National Research Council, Ottawa, Ontario, Canada, a body corporate of Canada
Application June 3, 1952, Serial No. 291,518
31 Claims. (Cl. 60—35.6)



1. A discharge nozzle for a jet engine adapted to be secured to a tubular duct as a continuation thereof, comprising a tubular tail pipe of deformable metal having an outwardly extending flange around the edge of the tail pipe which is adjacent to the tubular duct, means for simultaneously twisting opposite portions of the flange in one direction about substantially parallel axes within the tail pipe and tubular duct to change the outlet area of the tail pipe, means for simultaneously twisting said opposite portions of the flange in a direction opposite to said one direction about said axes to restore the outlet area of the tail pipe to its former area, and connecting means between the duct and the tail pipe capable of conforming to changes in the distances between portions of the inner edges of the tail pipe and opposing portions of the edge of the tubular duct.

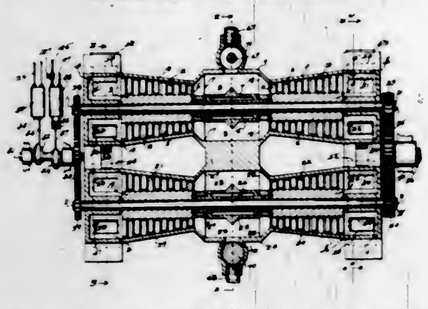
17. A discharge nozzle for a jet engine adapted to be secured to a tubular duct as a continuation thereof, comprising a tubular tail pipe of resilient material, four elongated stiffening members connected to a surface of the tail pipe and longitudnally disposed with respect to said tail pipe, said stiffening members being equally and symmetrically spaced about the periphery of the tail pipe, means for biasing two diametrically opposed stiffening members inwardly about axes adjacent to the junction between tail pipe and said duct and simultaneously biasing the other two diametrically opposed stiffening members outwardly whereby the outlet area of the tail pipe is decreased, and means for biasing the first mentioned two stiffening members outwardly and for simultaneously biasing the said other two stiffening members inwardly to increase the outlet area of the tail pipe to its former area.

2,658,334
BRAKING AIRCRAFT
Francis Charles Ivor Marchant, Bristol, England, assignor to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application March 25, 1950, Serial No. 151,909
9 Claims. (Cl. 60—35.54)



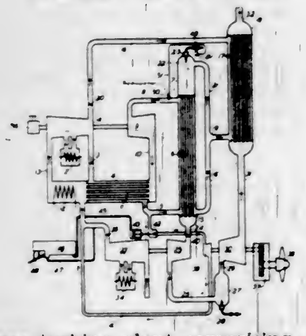
1. For propelling an aeroplane, a gas turbine engine comprising a compressor assemblage having a low-pressure air compressor and a high-pressure air compressor, combustion equipment to receive compressed air from said compressor assemblage means to supply fuel to said combustion equipment, and a pair of independently rotatable turbine rotors to receive in turn the hot products of combustion from the combustion equipment, each of said turbine rotors driving one of the air compressors, in combination with an apparatus for producing a braking thrust on the aeroplane said apparatus comprising a combustion chamber separate of the combustion equipment, means for supplying fuel to said chamber, a duct to convey compressed air from the compressor assemblage upstream of the high-pressure stage thereof to said combustion chamber, and a nozzle from which the combustion products are adapted to be discharged as a high velocity jet in a direction to produce said braking thrust.

2,658,335
GAS TURBINE SYSTEM OF INTERMITTENT COMBUSTION TYPE
Adolphe C. Peterson, Minneapolis, Minn.
Application November 17, 1948, Serial No. 60,613
10 Claims. (Cl. 60—39.18)



10. In a power production means, a multiple number of individually encased turbine units each having a rotor bearing torque developing elements, inter-connecting drive means between the rotors to operatively inter-connect the rotors, a multiple number of combustion chambers each associated with one turbine unit and having a passage from the combustion chamber to the turbine unit to discharge thereto, a means supplying air and fuel under pressure and having delivery means therefrom to each combustion chamber, a valve means cooperating with the delivery means and actuatable to cyclically interrupt flow through the delivery means to the combustion chambers of air and fuel, a means for supply of a secondary fluid under pressure and secondary delivery means therefrom to each turbine unit and valve means cooperating with the secondary delivery means and actuatable to cyclically interrupt flow through the secondary delivery means to each turbine unit during intervals when combustion gases flow to the turbine unit.

2,658,336
PRESSURE CONTROL SYSTEM FOR GAS TURBINE PLANTS
Walter Traupel, Winterthur, Switzerland, assignor to Sulzer Frères, Societe Anonyme, Winterthur, Switzerland, a corporation of Switzerland
Application October 17, 1950, Serial No. 190,621
Claims priority, application Switzerland
October 18, 1949
4 Claims. (Cl. 60—39.18)



1. A gas turbine plant comprising, in combination, a compressor, a first turbine driving said compressor, a second turbine producing outside power and being mechanically independent of said first turbine, a gas heater connected with said turbines for supplying a heated working medium thereto; conduit means interconnecting said compressor and said gas heater for flow of compressed working medium from the compressor to the gas heater, an auxiliary turbine mechanically connected with one of said turbines and connected with said conduit means for receiving compressed working medium therefrom, means responsive to the pressure of the working medium leaving said compressor, and medium flow control means connected with said auxiliary turbine and with said pressure responsive means for controlling the supply of working medium to said auxiliary turbine according to the pressure of the medium leaving the compressor.

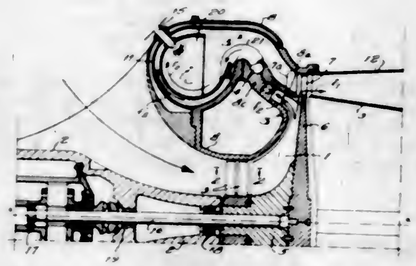
2,658,337
COMBUSTION CHAMBER FOR PRIME MOVERS
John Stanley Clarke and Alfred Huyton, Burnley, England, assignors to Joseph Lucas Limited, Birmingham, England
Application December 14, 1948, Serial No. 65,212
Claims priority, application Great Britain
December 23, 1947
4 Claims. (Cl. 60—39.32)



1. For use in a combustion chamber constructed from a plurality of coaxially arranged hollow sections having a surrounding annular air duct, a substantially cylindrical and rigid jointing ring structure comprising, in combination, oppositely directed coaxial, and relatively thin annular end parts of different diameters adapted to be engaged with adjacent ends of a pair of said hollow sections, an intermediate part integral with each of said end parts and having a substantially greater thickness than said end parts, and an annular series of narrow passage formations extending axially through said intermediate part and lying radially outwardly with respect to one of said annular end parts and radially inwardly with respect to the other annular end part, whereby said passage formations enable a thin air stream from the outside of one of said hollow sections to be directed along the inner surface of another of said hollow sections.

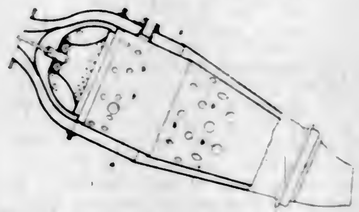
2,658,338
GAS TURBINE HOUSING
René Leduc, Toulouse, France
Application February 21, 1948, Serial No. 10,059
In France September 6, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 6, 1966
2 Claims. (Cl. 60—39.36)

1. In a gas turbine, in combination, an impeller having an outer periphery and being mounted for rotation about its axis; a plurality of turbine blades also mounted for rotation about said impeller axis and being located beyond said outer periphery of said impeller and adjacent thereto; and a housing having a central axis coinciding with said impeller axis and encasing said impeller and turbine blades for rotation therein, said housing being formed with an air inlet leading to said impeller, with an annular combustion chamber located about said central axis thereof and with an annular passage leading from said combustion chamber to said turbine blades, and said housing having an annular wall portion located about said central axis thereof and separating said impeller from said combustion chamber, said wall portion having an outer annular surface forming one side of said annular passage leading from said combustion chamber to said turbine blades and said wall portion being formed with a plurality of separated diffuser passages extending therethrough and each having one open end facing said impeller and an opposite open end facing



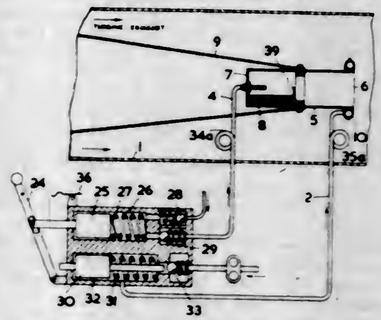
said combustion chamber, said diffuser passages being evenly distributed in said wall portion and each extending along an axis which is skewed with respect to said central axis, and each of said diffuser passages increasing in cross-section from said one open end thereof to said opposite open end thereof, whereby air passing through said air inlet to said impeller must pass through said diffuser passages before entering said combustion chamber and whereby said air after entering said combustion chamber flows through said annular passage to said turbine blades, said diffuser passages decreasing the speed of the air flowing therethrough and increasing the pressure thereof.

2,658,339
SHEET METAL COMBUSTION CHAMBER, FLAME TUBE, AND THE LIKE
William Bonsall, Burnley, England, assignor to Joseph Lucas Limited, Birmingham, England
Application November 9, 1951, Serial No. 255,571
Claims priority, application Great Britain
November 29, 1950
1 Claim. (Cl. 60—39.65)



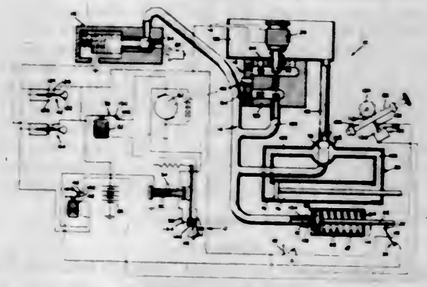
A sheet metal hot gas chamber of elongated form, and an air jacket surrounding said chamber, said chamber being provided with a plurality of holes through which air from said jacket is admissible to said chamber, and the sheet metal around said holes being formed with corrugations which extend radially from said holes and allow free expansion and contraction of the metal bounding said holes.

2,658,340
APPARATUS FOR IGNITING FUEL IN FAST-MOVING HOT GAS STREAMS
Henry Cohen, Cove, near Farnborough, England, assignor to Power Jets (Research & Development) Limited, London, England
Application January 23, 1946, Serial No. 642,920
Claims priority, application Great Britain
February 1, 1945
2 Claims. (Cl. 60—39.71)



1. A combustion system for igniting fuel to be burnt in a fast-moving hot gas stream, comprising a duct carrying said stream, wall means within the duct defining a cylindrical chamber coaxial therewith, said chamber having its upstream end closed and its downstream end open and forming a stabilized combustion zone, a first fuel injector within said chamber, a layer of wire gauze disposed within and extending longitudinally of said chamber and below and close to said injector, means for supplying to said first injector a momentary charge of a reagent other than the normal fuel to be burnt, said reagent being spontaneously ignitable by contact with said layer of gauze to form a pilot flame in said zone, a further injector injecting into the free stream in the vicinity of the pilot flame, and means to supply fuel to said further injector immediately subsequent to the injection of said reagent, whereby said fuel is ignited by the pilot flame.

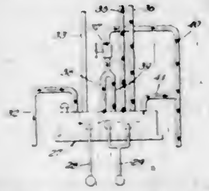
2,658,341
HYDRAULIC POWER SYSTEM
Walter R. Eames, Jr., Hazel Park, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application May 16, 1950, Serial No. 162,351
5 Claims. (Cl. 60—52)



1. An electrically controlled hydraulic power system comprising a hydraulic pump, a solenoid operated valve for controlling the discharge from the pump, first and second hydraulic cylinders, conduits providing communication between the pump and cylinders, a reciprocal piston in

each of the cylinders, spring means in the second cylinder for biasing the piston therein in an opposite direction to the fluid pressure delivered thereto, means providing communication of the opposite ends of the first cylinder, with the discharge of the pump, an hydraulic fluid supply means for the pump, said communication of the opposite ends of the first cylinder also having communication with the fluid supply means, a solenoid operated valve for controlling the fluid flowing to and from the second cylinder, a three-way manually operated valve for controlling the communication of the first cylinder at the opposite ends respectively with the fluid supply means for the pump and the pump discharge and for shutting off communication completely of both ends of the cylinder, two electrical circuits connecting a single source of electrical current to the solenoid operated valve for the pump, a switch, in the first circuit, operable to control the solenoid operated valve for the pump for the desired delivery of pressure fluid in the second cylinder, a manually operated push pull control for actuating the three-way valve, an electrical switch actuated by the push pull control connected in the second electrical circuit for controlling the energization of the solenoid operated valve for the pump, and an electrical switch for the solenoid operated valve controlled cylinders, in its own circuit for controlling the energization of the solenoid operated valve for the pump and the solenoid operated valve for the cylinder in circuit therewith.

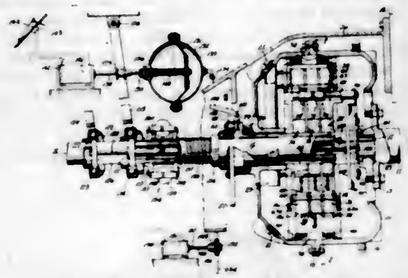
2,658,342
HYDRAULIC DRIVE SYSTEM
Guy Banister and Leonard Stephen Burns, Aurora, Ill., assignors to Barber-Greene Company, Aurora, Ill., a corporation of Illinois
Application May 29, 1951, Serial No. 228,812
5 Claims. (Cl. 60—52)



4. In a hydraulic system having a hydraulic motor, a supply of fluid under pressure and a control valve for controlling fluid flow through said motor, a control unit comprising first and second passage valve body sections, each section having a valve member movable therein, means connecting said control valve to said first section, means connecting said hydraulic motor to the other of said sections, and a control member connected to said valve members and selectively movable between a forward feed position in which said control valve is operable to control the fluid flow through said motor and a reverse feed position in which said control valve is blocked off and the full fluid pressure of the system applied to said motor.

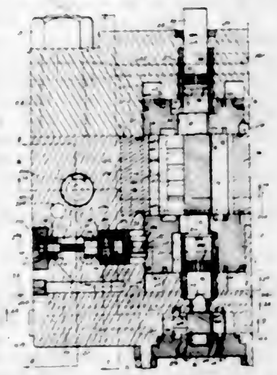
2,658,343
ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION
Daniel F. McGill, Portland, Oreg., assignor to Donald W. Green, Portland, Oreg., as trustee
Application May 17, 1949, Serial No. 93,691
17 Claims. (Cl. 60—53)

5. A fluid transmission comprising a driving member, a driven member cooperating with said driving member to form a positive displacement pump, a plurality of reaction members cooperating with said driven member to form positive displacement motor chambers, said members being concentric, said reaction members being



mounted for individual forward rotation and equipped with an overrunning brake to prevent reverse rotation, and fluid passages and valves to control a flow of fluid from said pump to a variable number of said motor chambers.

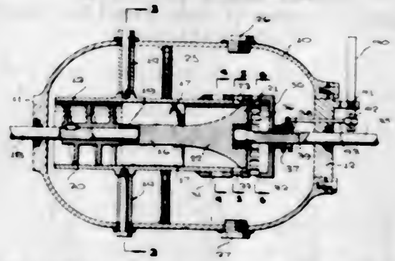
2,658,344
ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION
Clinton M. Welch, Sault Sainte Marie, Mich.
Application June 10, 1952, Serial No. 292,605
19 Claims. (Cl. 60—53)



10. A hydraulic transmission comprising a driving unit and a driven unit each including means providing a cylindrical chamber, shafts extending eccentrically one through each of said chambers, rotor bodies having vane slots therein disposed one on each of said shafts within the corresponding chambers and rotatable in the latter, vanes slidably mounted one in each vane slot of said rotors, means in each of said chambers connected to said vanes positively moving said vanes inwardly and outwardly of the vane slots as the corresponding rotor bodies rotate, governor blocks disposed one in each of said chambers in spaced relationship to the corresponding rotor bodies and each having adjacent the corresponding rotor body a curved surface contacted by the outer ends of the adjacent vanes, and a partition formation extending from the wall of each of said chambers to the corresponding rotor body at a location spaced from the associated governor block, the corresponding partition formation providing an inlet space and an outlet space in each of said chambers, means providing channels one connecting the outlet space of the chamber of

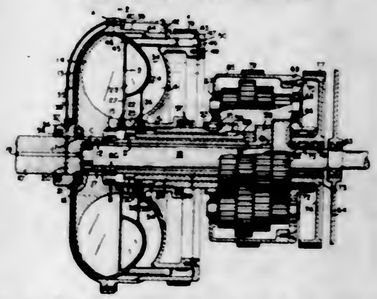
said driving unit to the inlet space of the chamber of said driven unit and providing an upper pressure space and the other connecting the outlet space of the chamber of said driven unit to the inlet space of the chamber of said driving unit and providing a lower pressure space, said governor blocks being angularly movable in the corresponding chambers in response to fluid pressure in said upper pressure space greater than the fluid pressure in said lower pressure space in directions to decrease the effective vane area of said driving rotor and increase the effective vane area of said driven rotor, and fluid pressure operated means connected to said governor blocks resisting angular movement of said governor blocks in the corresponding rotor chambers, each of said vanes having a packing element extending longitudinally of its outer end and engaging the inner surface of the associated governor block, each of said governor blocks comprising a hollow cylindrical body mounted in the corresponding rotor chamber for angular movement therein and having spaced apart slots extending circumferentially partly therearound, and said partition formation comprising a plurality of blocks detachably mounted on the chamber providing means and disposed one in each slot in the corresponding governor block, each of said blocks having recesses disposed one in each side thereof, and packing elements disposed one in each such recess and contacting the side wall surfaces of the corresponding slots in the associated governor block.

2,658,345
REVERSIBLE TURBINE TYPE FLUID COUPLING
Roland Robert Mosher, Jackson, Mich.
Application October 31, 1952, Serial No. 318,061
4 Claims. (Cl. 60—54)



1. In a fluid coupling, a casing having both ends closed, an open ended sleeve positioned within and extending longitudinally of said casing and spaced from said casing and fixedly secured intermediate its ends to said casing, the space surrounding said sleeve defining a fluid space, one end of said sleeve being adjacent to and spaced from one of the closed ends of said casing, a fixed vane assembly in said sleeve inwardly of and spaced from said one closed end of said casing, said assembly including a hub and a plurality of vanes arranged in longitudinal radial relation about said hub, a drive shaft journaled through said one closed end of said casing and extending inwardly into said sleeve and having the inner end rotatably supported in said hub, a rotor carried by the portion of said drive shaft intermediate said one closed end of said casing and said vane assembly, a cylindrical head positioned within and closing the other end of said sleeve and fixedly connected to said hub, said sleeve having a plurality of spaced radial slots arranged in a circle inwardly of and adjacent to said head, a hollow cylindrical runner facing and surrounding the other end of said sleeve and mounted on said sleeve for longitudinal sliding movement, said runner having three circular rows of turbine blades arranged in longitudinal spaced relation therealong, the blades of one of the rows projecting at an angle from said runner to form a forward drive, the blades of another of the rows projecting from said runner at an angle opposite to that of said one row to form a reverse drive, and the blades of the further of the rows projecting at an angle from said runner different from either of said one and another rows to form a neutral drive, a driven shaft journaled through the other closed end of said casing and extending inwardly through said runner and having the inner end rotatably supported in said head, said runner being connected to said driven shaft for longitudinal reciprocatory movement, and manual means operatively connected to said runner for effecting the reciprocatory movement of the latter.

2,658,346
ROTARY, TURBINE-TYPE FLUID COUPLING
Frederick W. Seybold, Westfield, N. J.
Original application July 21, 1951, Serial No. 237,974. Divided and this application January 19, 1953, Serial No. 331,793
10 Claims. (Cl. 60—54)

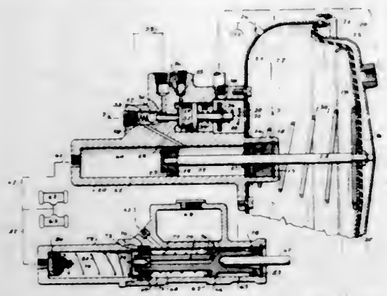


5. In a fluid coupling; an impeller, inner and outer runners in said coupling comprising substantially concentric shell portions and blades thereon, and arcuate deflector shields carried by the outer runner between the blades thereof having retracted positions where they are disposed within recesses provided therefor in the shell of the outer runner and inner positions where they extend from the edge of the impeller to the edge of the inner runner to deflect the fluid from the impeller into the inner runner.

2,658,347
HYDRAULIC BOOSTER BRAKE SYSTEM
William Stelzer, Summit, N. J.
Application January 9, 1950, Serial No. 137,501
17 Claims. (Cl. 60—54.5)

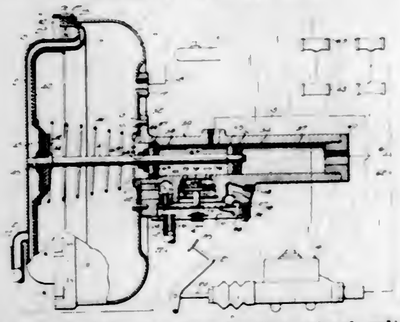
4. In a braking system having wheel cylinders to apply the brakes, a pair of simultaneously manually operable fluid displacing devices one of which is adapted to transmit a small amount of fluid under higher pressure directly to said wheel cylinders, a booster comprising a power operated fluid displacing mechanism connected to transmit fluid under pressure to said wheel cylinders to augment the amount transmitted by said one device, said booster having an expansible chamber adapted to receive control fluid from the other of said fluid displacing devices, the intake of control fluid being proportionate to the output of fluid of said fluid displacing mechanism, means responsive to the pressure of said control fluid to increase the power of said booster to step up the output of said fluid displacing mechanism,

and means responsive to an increased and predetermined pressure of said control fluid to prevent



the return of fluid from said wheel cylinders to said fluid displacing mechanism of booster.

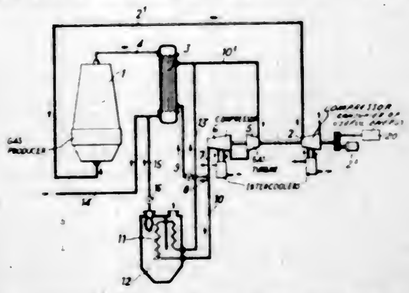
2,658,348
BOOSTER BRAKE MECHANISM
William Stelzer, Summit, N. J.
Application March 22, 1950, Serial No. 151,119
11 Claims. (Cl. 60—54.5)



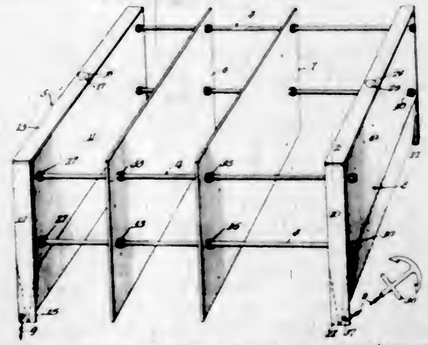
5. In a braking system having wheel cylinders to apply the brakes, a master cylinder comprising a larger cylinder and a smaller cylinder, a larger plunger and a smaller plunger operable respectively in said larger and smaller cylinders, said plungers having fixed mechanical connection with each other and being manually operable, said smaller cylinder being directly connected to the wheel cylinders to apply the brakes, a fluid displacing mechanism communicating with the wheel cylinders to augment the amount of fluid transmitted thereto from said smaller cylinder, a power device for operating said fluid displacing mechanism, and means operable by fluid displaced from said larger cylinder for controlling said power device.

2,658,349
PLANT FOR THE RECOVERY OF WASTE HEAT FROM COMBUSTIBLE GASES DERIVED FROM CHEMICAL PROCESSES
Curt Keller, Kusnacht, Switzerland, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland, a corporation of Switzerland
Application December 19, 1949, Serial No. 133,766
Claims priority, application Switzerland January 21, 1949
7 Claims. (Cl. 60—59)

1. The combination of a source of hot fuel gases; a thermal power plant in which a gaseous working medium describes a closed path, said plant comprising means defining the closed circuit, the charge of working medium and the following components connected therein in the order stated, compressing means, dual heating means including a surface heat exchanger and a surface heater provided with combustion means and a turbine; a consumer of useful energy; connections whereby said turbine drives said compressing means and said consumer of useful energy; connections for passing at least a portion of said hot fuel gas through said surface heat exchanger to deliver heat to working medium in said circuit; and connections for delivering at least a portion of said fuel gas to the combustion means of said surface heater.



2,658,350
PORTABLE FLOATING TYPE BREAKWATER UNIT FOR EFFECTING WAVE ENERGY DISSIPATION
John W. Magill, Chicago, Ill.
Application August 31, 1951, Serial No. 244,636
6 Claims. (Cl. 61—5)



1. A portable floating type breakwater unit adapted to be positioned in an open body of water at a location outwards of the adjacent portion of the shore line and to form with adjoining like units a complete breakwater with a harbor between it and said adjacent portion of the shore line, and comprising a horizontal series of laterally spaced vertically extending aligned plate-like baffle members having a height substantially equal to that of the maximum waves that occur outwards of the unit when the latter is positioned at said location, and arranged and adapted to effect energy dissipation of the waves that are outwards thereof and strike thereagainst, a mounting structure whereby the baffle members are held in fixed relation, and flexible anchor means connected to the unit and adapted when in place to hold the unit at said location and so that the baffle members are disposed in substantially parallel relation with said adjacent portion of the shore line, certain of the baffle members being hollow and forming floats of such character that the unit, except for said flexible anchor means, is caused to float in the body of water at such an elevation that the medial portions of the baffle members are disposed at substantially the normal level of said body of water.

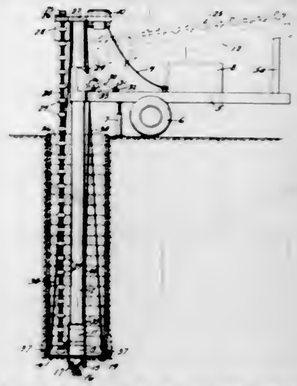
2,658,351
WATER CHANNEL CONTROL GATE
Raymond A. Hill, San Marino, Calif.
Application February 3, 1949, Serial No. 74,399
5 Claims. (Cl. 61—25)



1. The combination comprising a water channel having sides sloping inwardly to the base of the channel, a flow control gate extending transversely within the channel, hinges at opposite sides of the channel mounting the gate for vertical swinging movement and between which the gate has continuous extent to seat on the bottom and sides of the channel, flexible sheet metal forming the face of the gate and variably deformable at different depths in accordance with the different water pressures applied to the upstream side of the gate at those depths, and rigid reenforcing members attached to said sheet metal face and relatively movable to permit the aforesaid deformation of the face, said gate face being curved concavely in a horizontal plane and downstream direction and being curved concavely downstream in a vertical plane.

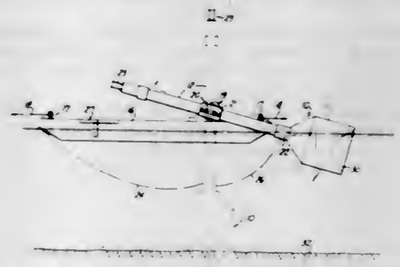
2,658,352
DEVICE FOR INSTALLING CESSPOOLS IN A SINGLE OPERATION
Robert James Haeg and Carlton C. Miller, Minneapolis, Minn.
Application June 7, 1951, Serial No. 230,404
8 Claims. (Cl. 61—41)

1. A device for installing in the ground, tubular members such as cesspools and the like comprising a frame, ground loosening mechanism supported by said frame and movable vertically with respect thereto, said mechanism being adapted to loosen the earth within an area substantially concentric to and at least equal to the cross-sectional area of such a tubular member and to positively move said earth toward a central location, said mechanism being adapted to be power-driven, earth engaging and conveying mechanism supported by said frame and arranged to engage and convey the loosened earth away from said central location and adapted to be power driven, and support mechanism for positively supporting such a tubular member, said support mechanism being positively connected to said earth loosening mechanism and movable vertically therewith to support the lower end portion of such a tubular member at all times



slightly above the level at which said earth loosening operation takes place whereby the tubular member may be installed gradually and continuously while such earth loosening and removing operations take place to effectively prevent caveins and the like of the earth forming the side walls of the hole made by such operations.

2,658,353
APPARATUS AND METHOD FOR THE PLACEMENT OF CAISSONS
Carl A. Trexel, San Francisco, Calif., assignor to Ben C. Gerwick, Inc., San Francisco, Calif., a corporation of California
Application August 15, 1950, Serial No. 179,413
9 Claims. (Cl. 61—46)

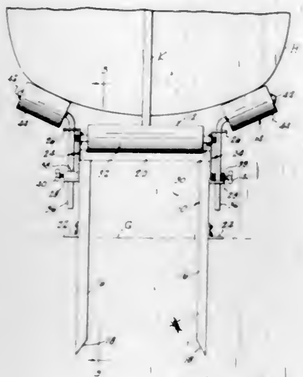


1. In apparatus for the placement of caissons of the type adapted to be made buoyant for floating to the location desired and to be flooded for positioning the same on an underlying bottom; a barge, a clamping device, for releasably engaging said caisson, shaft means to which said device is secured, a trunnion means serving to journal said shaft for pivotal movement of said device about a horizontal axis and means for mounting the trunnion means on the barge to position said clamping device in spaced relation to one side of the barge as viewed in plan.

2,658,354
PORTABLE BOAT LAUNCHING AND BEACHING APPARATUS
Donovan A. Lee, Suttons Bay, Mich.
Application October 24, 1952, Serial No. 316,650
2 Claims. (Cl. 61—67)

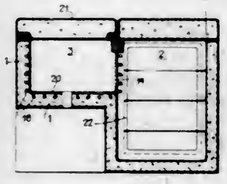
1. Apparatus for beaching and launching boats comprising: a stationary support frame includ-

ing spaced legs having means at their lower ends extendable into the ground; roller support brackets mounted on the upper ends of the respective legs; keel rollers journaled at their opposite ends in and extending between said brackets; hull roller support shafts having angularly related end portions, one end portion of each shaft extending vertically and being mounted for ver-



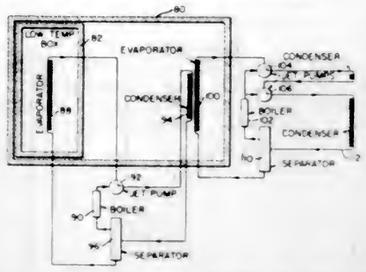
tical adjustment in one of the brackets, and the other end portion of each shaft being inclined from the vertical and extended in a direction away from its associated bracket; and hull rollers rotatably mounted on the last-named end portions for adjustment with the hull roller support shafts to selected elevations relative to the keel rollers.

2,658,355
REFRIGERATOR AND DEEP FREEZER SYSTEM
Bernhard Katzenberger, Heidelberg, Germany, assignor to Brown, Boveri & Cie., Aktiengesellschaft, Mannheim-Kafertal, Germany, a corporation of Germany
Application November 15, 1950, Serial No. 195,857
Claims priority, application Germany November 18, 1949
5 Claims. (Cl. 62—99)



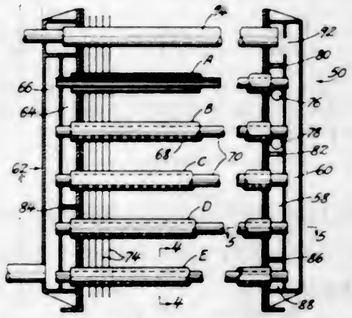
2. A combined refrigerator and deep freezer comprising at least two refrigeration chambers operated at different temperatures, one of said refrigeration chambers serving as deep freezing chamber constructed as a container accessible from above and surrounded by a cooling unit common to and cooling both chambers, said unit being constructed in the form of a tubular coil evaporator, the bottom of said deep freezing chamber being a flat plate equipped at its bottom surface with spiral recesses for the evaporator coils.

2,658,356
JET PUMP REFRIGERATION SYSTEM
Ernest P. Neumann, Lincoln, and Ferdinand Lustwerk, West Roxbury, Mass., assignors to Ultra-Mechanisms, Inc., Cambridge, Mass., a corporation of Massachusetts
Application July 5, 1951, Serial No. 235,278
10 Claims. (Cl. 62—117.35)



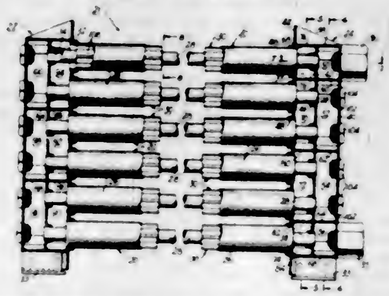
10. A refrigerator including a pair of insulated compartments, a first evaporator disposed in the first compartment, a first condenser connected to said first evaporator and disposed in the second compartment, a second evaporator disposed in the second compartment and in heat exchange relation with the first condenser, a second condenser connected to the second evaporator and disposed outside both compartments, a first boiler and jet pump disposed outside said compartments and connected to cycle refrigerant through the first evaporator and first condenser, and a second boiler and jet pump connected to cycle refrigerant through said second evaporator and condenser.

2,658,357
REFRIGERATING SYSTEM
Victor W. Smith, Trenton, N. J., assignor to C. V. Hill & Company, Inc., Trenton, N. J., a corporation of New Jersey
Application May 17, 1950, Serial No. 162,501
3 Claims. (Cl. 62—117.55)



1. A refrigerating system comprising a compressor, an evaporator, a condenser connected in series between said compressor and evaporator, a revaporizer connected in series between said evaporator and compressor, said condenser and revaporizer being combined into a single unit having a pair of headers located adjacent one end of the unit and another pair of headers located adjacent the opposite end of the unit, the condenser including tubes extending in parallel from a header adjacent one end of the unit to a header adjacent the opposite end of the unit, the revaporizer including tubes extending from the other header at one end of the unit to the other header at the other end of the unit, the tubes of the condenser and revaporizer being arranged directly in heat conducting relation with each other and means for circulating moisture containing air in heat exchanging relation with said condenser and revaporizer.

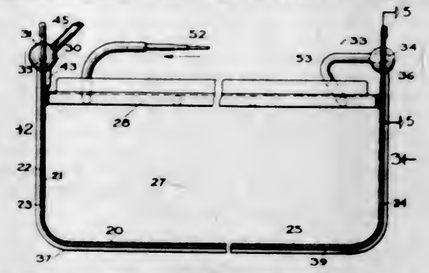
2,658,358
REFRIGERATION SYSTEM WITH MULTIPLE FLUID HEAT TRANSFER
Cecil Boling, Brewster, N. Y., assignor to The Heat-X-Changer Co., Inc., Brewster, N. Y., a corporation of New York
Original application July 27, 1950, Serial No. 176,128, now Patent No. 2,611,587, dated September 22, 1952. Divided and this application November 14, 1951, Serial No. 256,204
7 Claims. (Cl. 62—117.55)



1. In a refrigeration system of the character described wherein refrigerant is passed to an evaporator in liquid phase and returns in gas phase, the combination with the other components of said system of a heat transfer unit connected in flow series in the refrigerant circuit which comprises, a bank of parallel tube assemblies each of which is formed by an inner tube and an outer tube which are concentrically positioned to provide an annular space therebetween and an annular fin assembly formed by sheet metal which has been corrugated with each corrugation forming a fin portion which extends somewhat radially and bridges said annular space, said fin assembly having the characteristic that it is deformable but is capable of withstanding radial compression, said tubes being of such relative size as a result of one of them being deformed after assembly that said fin assembly is compressed within said annular space whereby it exerts substantial pressure upon the outer surface of the inner tube and the inner surface of the outer tube, and a pair of headers for said tube assemblies and providing fluid connections to said annular spaces thereof and also to the inner tubes thereof, each of said header assemblies including a first wall portion which provides rigid mounting means for the various outer tubes and a second wall means which provides mounting means for the various inner tubes.

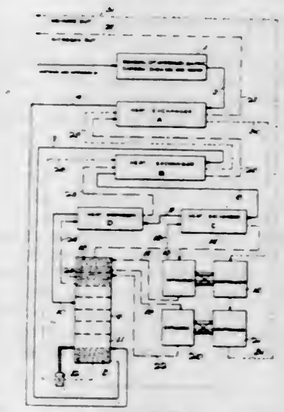
2,658,359
EVAPORATOR
Roland H. Money, Mount Healthy, Ohio, assignor to Artkraft Manufacturing Corporation, Lima, Ohio, a corporation of Ohio
Application February 17, 1949, Serial No. 76,990
2 Claims. (Cl. 62—126)

1. A U-shaped evaporator for a refrigerating system including walls forming a U-shaped cooling chamber and a continuous serpentine duct having a plurality of series connected runs on each of the upright and bottom walls, said runs each having a portion extending vertically of the upright walls and transversely across said bottom wall, a supply reservoir for supplying refrigerant to the duct, said reservoir being hori-



zontally disposed adjacent the upper end of one of said upright walls and above the duct and said duct being connected with the reservoir above the bottom of the reservoir; and a water absorbent disposed in the evaporator, said water absorbent comprising a quantity of silica gel and being disposed exclusively in said supply reservoir.

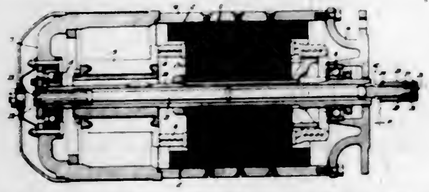
2,658,360
TRANSPORTATION OF NATURAL GAS
Benjamin Miller, Ozone Park, N. Y., assignor to The Chemical Foundation, Incorporated, a corporation of New York
Application May 8, 1946, Serial No. 668,094
3 Claims. (Cl. 62—175.5)



1. The method of preparing, from natural gas containing a substantial fraction of nitrogen, a gaseous fuel suitable for economical long distance pipe line transportation which comprises cooling a mixture derived from said natural gas and containing nitrogen and methane under a pressure in the range of 400 to 600 pounds per square inch to a temperature at which at least a substantial portion of the methane is liquefied, separating the mixture while substantially maintaining the pressure into a liquid portion in which the ratio of methane to nitrogen is substantially greater than it is in the mixture, and a vapor portion in which the ratio of methane to nitrogen is substantially less than it is in the mixture, evaporating the liquid in heat exchange relationship with another portion of the mixture while maintaining on the liquid a pressure not less than half of that maintained on the mixture and passing the vapor evolved by evaporation of the liquid in

heat exchange relationship with another portion of the mixture while maintaining said last recited vapor under substantially the same pressure under which it was evolved, expanding the vapor in which the ratio of methane to nitrogen is substantially less than it is in the mixture under conditions which insure that the temperature of the vapor immediately after expansion is lower than the temperature of the vapor when it left the separation step, and passing the expanded vapor in heat exchange relationship with another portion of the mixture, the cooling off the mixture taking place in at least three stages of progressively lower temperature, the expanded vapor supplying the cooling effect in the lowest temperature stage and the evaporating liquid supplying at least part of the cooling effect in an intermediate temperature stage.

2,658,361
DRIVING MECHANISM
Irving Kalikow, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application February 2, 1950, Serial No. 142,053
4 Claims. (Cl. 64—1)



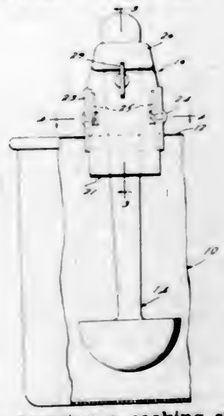
4. A clearance type flexible drive for a rotating mass adapted to be driven by a power source subject to torsional vibrations comprising a quill shaft on which said rotating mass is secured to be driven thereby, a resilient torque rod arranged concentrically within said quill shaft, means coupling together said quill shaft and said torque rod at one end of said torque rod, a drive engaging member concentrically arranged with respect to the other end of said torque rod to connect said torque rod to said power source, means coupling together said drive engaging member and said torque rod, one of said means comprising a splined connection with the mating splines thereof providing a large torsional clearance operable to disconnect momentarily said rotating mass from said power source to limit thereby the maximum amplitude of the vibrations of said rotating mass.

2,658,362
COUPLING
Walter J. Spengler, Sidney, N. Y., assignor to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware
Application September 21, 1949, Serial No. 116,924
4 Claims. (Cl. 64—25)



1. In apparatus of the class described, a driving member, a driven member free for angular movement relative to said driving member, coupling means for drivably connecting said members comprising a pair of centrifugally actuatable weights, means pivotally connecting one of said weights adjacent one end thereof to said driving member, means pivotally connecting the other of said weights adjacent one end thereof to said driven member and means pivotally connecting the other ends of said weights to each other, the axes of said pivotal connecting means being substantially parallel to the axis of rotation of said driving member, and resilient means for resisting pivotal movement of said weights in one direction about the pivotal connecting means therefor, said resilient means comprising at least two leaf spring means having corresponding ends thereof secured to said one weight, said secured ends being spaced from each other in the direction of said axis of rotation from said one weight, the unsecured portions of said spring means extending from said secured ends in substantially parallel relation to each other, and said spring means being of different lengths with the longer spring means spaced further than the shorter spring means from the weights toward said axis of rotation, the free end of the shorter spring means being normally in sliding engagement with a surface of said other weight and the free end of the longer spring means being normally spaced from said other weight but adapted to engage said surface of the latter at a place beyond the end of the shorter spring means when the weights have been moved a predetermined amount by centrifugal force, said surface of said other weight being one which faces toward said axis of rotation and each said spring means being unconfined and free to flex throughout the length of said unsecured portion thereof.

2,658,363
COOKING SPOON HOLDER FOR ATTACHMENT TO COOKING VESSELS
Luella A. Simmons, Los Angeles, Calif.
Application March 20, 1951, Serial No. 216,549
1 Claim. (Cl. 65—65)



A device for securing a cooking spoon to the rim of a vessel, said device comprising two elongate spaced juxtaposed jaw members, hinge ears carried by and extending at right angles to each of said members at opposite longitudinal edges and substantially midway between the ends thereof, the ears of one member being in coacting overlapping relation with corresponding adjacent ears of the other member, a pivot rivet passing through and coupling each two overlapping ears, said rivets being spaced apart at their inner ends to permit the handle of a spoon to be passed

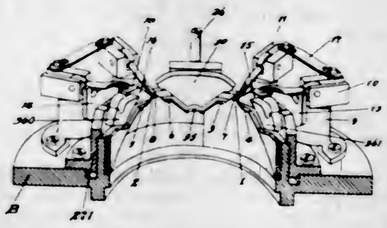
therebetween, each of said members having a portion of one end directed at substantially right angles toward the other member forming a jaw, the jaw carrying end of one member extending beyond the corresponding end of the adjacent member, a coil spring encircling each rivet on the inner side of the adjacent ears, said springs engaging said members and constantly urging the jaws together, finger engaging heads upon the other ends of the jaw members, and a spoon handle engaging set screw threaded transversely through one jaw member toward the other member on the side of the pivot rivets remote from the jaws for holding engagement with a spoon handle extending longitudinally between the members.

2,658,364
TUBULAR KNITTING DEVICE
Gustav A. Carlson, Des Plaines, Ill., assignor to The Boye Needle Company, Chicago, Ill., a corporation of Illinois
Application June 9, 1951, Serial No. 230,785
5 Claims. (Cl. 66—4)



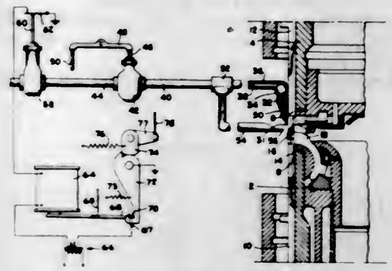
1. A knitting device, comprising a tubular member equipped at one end with a head flange and a plurality of spaced posts extending from said flange, said flange having a relatively narrow transverse groove located adjacent each of said posts.

2,658,365
CIRCULAR MULTIFEED HOSIERY KNITTING MACHINE AND METHOD OF OPERATING SAME
Robert H. Lawson, Laconia, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application October 4, 1948, Serial No. 52,764
43 Claims. (Cl. 66—48)



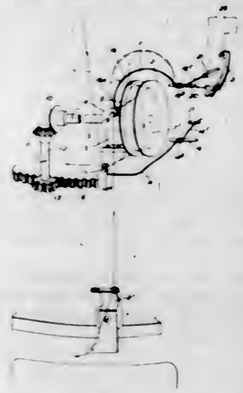
1. A circular independent needle knitting machine having a series of feed points adapted to feed yarn to knit multi-feed in both a reciprocatory and a rotary manner, there being a stitch-drawing surface at each feed point for each direction of knitting, characterized by clearing cams under several stitch-drawing surfaces, each such surface being adapted to be effective on movement of the needles in the opposite direction from that effective for the clearing cam under it, in combination with lifter picks adapted to move to inactive position the leading needle cleared at each such clearing cam.

2,658,366
KNITTING MACHINE
Stanley R. Shelmire, Laconia, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application February 8, 1952, Serial No. 270,600
13 Claims. (Cl. 66—111)



1. A knitting machine comprising independently movable latch needles, and means for directing a blast of air upon the hooks of the needles for opening the latches thereof.

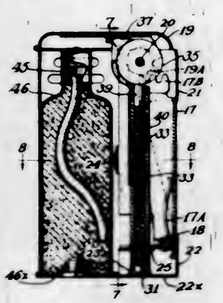
2,658,367
MEANS FOR FEEDING YARNS IN KNITTING MACHINES
Arthur Shortland, Leicester, England, assignor to Mellor Bromley & Co. Limited, Leicester, England, a British company
Application April 30, 1951, Serial No. 223,684
Claims priority, application Great Britain May 9, 1950
6 Claims. (Cl. 66—132)



1. In a knitting machine, mechanism for feeding a yarn from a wound package to needles, comprising, in combination, a feedwheel consisting of a tapered drum having a smooth periphery and a flanged rim at each end thereof, means for driving the said feedwheel at a higher peripheral speed than the linear speed of the yarn, and two yarn guides located at opposite sides of the feedwheel, each of said yarn guides being pivotally mounted at the back of the feedwheel for movement towards and away from each other, the said guides being disposed in line with the ends of the drum of larger and smaller diameter respectively so that the operative ends of the guides are off-set in an axial direction in relation to the feedwheel and the yarn is enabled to be lapped around the periphery of the feedwheel in such a way that movements of the yarn

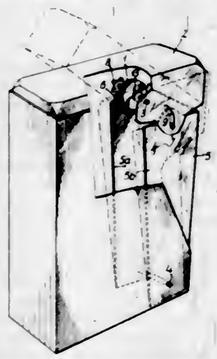
guides effected by variations in the tension on the running yarn will cause the length of the said yarn frictionally engaged with the feed-wheel to be varied, for the purpose herein specified.

2,658,368
CIGARETTE LIGHTER
Morris B. Siegel, Chicago, Ill., assignor to Bryn Mawr Smokers Novelty Co., Chicago, Ill., a co-partnership
Application January 11, 1950, Serial No. 137,999
4 Claims. (Cl. 67—7.1)



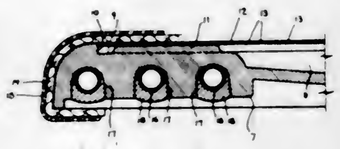
3. In a lighter casing structure of the class described, a subassembly casing jacket in the form of an elongated, U-shaped stamping of thin metal including a bight portion, a pair of opposite side walls adjoining said bight portion, a bottom flange projecting from said bight portion substantially between said side walls, a flint-tube flange offset from one of said side-walls to overlie said bottom flange, and a cannister-presser flange on an edge of one of said side-walls and offset to project toward the opposing side-wall, said tube flange and bottom flanges having aligned apertures respectively receiving and confronting the body and one end of a flint tube to support the lower end of the latter in operative position.

2,658,369
FRICTION WHEEL LIGHTER
Maximilian Kohn, Heidenreichstein, Austria, assignor to Bruder Eisert Aktiengesellschaft, Vienna, Austria, an Austrian joint-stock company
Application May 26, 1950, Serial No. 164,538
Claims priority, application Austria September 13, 1949
3 Claims. (Cl. 67—7.1)



2. In a lighter the combination comprising a housing having an opening throughout the top thereof, an axle journaled in the top of the housing, a cover having opposed side walls and journaled thereby on the axle, one of the cover side walls including engageable means eccentric to the axle, a pinion fixed to the axle, a wheel having friction serrations throughout its periphery and mounted on the axle by means of a coupling, a member constituting an end wall of the housing and fulcrumed on the housing and including opposite second side walls, the upper end of one of the second side walls being provided with means slidably engaging the engageable means on the cover for swinging the cover upwardly, the upper end of the other of the second side walls being toothed for meshing with the pinion and on tilting the member inwardly of the housing rotating the friction wheel through an angle greater than the angle through which the cover is moving by the slidable means engaging the engageable means whereby the friction wheel is made to produce sparks during the whole period of tilting the end wall member inwardly of the housing.

2,658,370
STEAM FINISHING BOARD
Frank H. Richterkessing, Louisville, and William M. Cissell, St. Matthews, Ky., assignors to W. M. Cissell Mfg. Company, Incorporated, Louisville, Ky., a corporation of Kentucky
Application February 26, 1948, Serial No. 11,221
6 Claims. (Cl. 68—6)

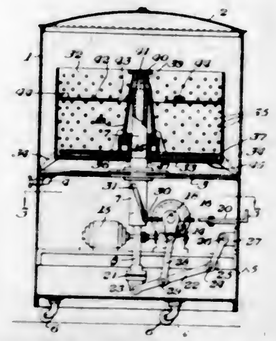


5. A steam finishing board comprising an elongated metal board member, a series of U-shaped steam pipes disposed beneath and in heat conductive relation with said member, the top surface of said member being formed with a trough therein midway between the legs of said U-shaped pipes and projecting beyond the relatively spaced opposite ends thereof, a manifold having separate closed compartments secured to and respectively communicating with the opposite ends of said U-shaped pipes, and steam injection means carried by said manifold in communication with said trough.

2,658,371
WASHING MACHINE
Hyman D. Bowman, Raleigh, N. C.
Application June 6, 1951, Serial No. 230,213
3 Claims. (Cl. 68—21)

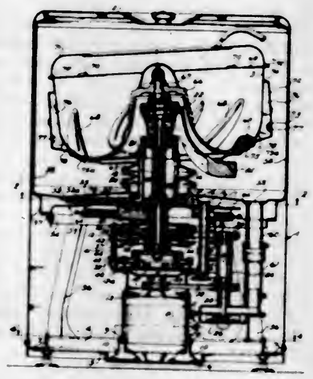
3. A clothes washing machine comprising in combination, a tub for containing the washing liquid, a removable lid for said tub, a clothes receptacle for containing the clothes removably mounted in said tub and being spaced from the side wall and the bottom of said tub, said receptacle constructed of foraminous material for the passage of the washing liquid therethrough, a vertically disposed tubular bearing element secured at the center of the bottom of the tub and projecting upwardly into said tub and into said clothes receptacle, an operating shaft mounted in said bearing element, a carrier plate for supporting the clothes mounted in said clothes receptacle, said carrier plate being constructed of foraminous material and being detachably secured with the upper end of said operating shaft

to shift with the latter, driving means to actuate said operating shaft to impart vertically reciprocating movement to said carrier plate in said clothes receptacle, a cover plate constructed of foraminous material adjustably mounted in said



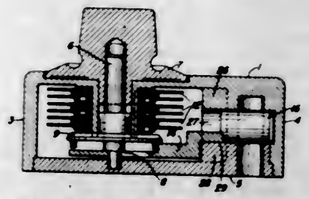
clothes receptacle to compress the clothes during the upward movements of said carrier plate in said clothes receptacle, and latching means carried by said cover plate for securing the latter in the adjusted position in said clothes receptacle.

2,658,372
WASHING MACHINE
James B. Kirby, West Richfield, Ohio, assignor to The Apex Electrical Manufacturing Company, as trustee, Cleveland, Ohio, a corporation of Ohio
Application March 31, 1950, Serial No. 153,166
6 Claims. (Cl. 68—23)



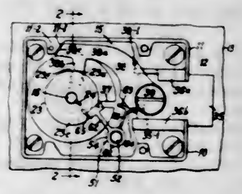
1. A domestic laundry machine comprising a frame having supporting feet adapted to rest upon a floor surface, a pedestal including a motor, drive mechanism and rotatable container assembled as a unit, resilient means supporting the lower end of said unit on said frame adjacent the vertical axis of said pedestal and in a horizontal plane adjacent the floor engaging surfaces of said supporting feet, and cooperating friction members connected to said frame and said pedestal intermediate the height thereof, frictionally resisting the relative movement between said frame and said pedestal, said connection between the friction members and the frame including resilient means urging said pedestal to a central position with respect to the frame.

2,658,373
COMBINATION PADLOCK
Otto H. Eiffert and Howard S. Thomas, Jr., Rochester, N. Y., assignors, by mesne assignments, to Harry C. Miller, Fairfax, Va.
Application October 3, 1950, Serial No. 188,192
2 Claims. (Cl. 70—23)



1. A combination padlock of the type adapted to envelope a hasp staple when in locked relation therewith comprising a lock housing formed with a body portion having a front wall and a rearwardly opening tumbler housing chamber and a removable rear cover plate for said body portion, a tubular boss integral with a front wall of said body portion and projecting into said tumbler housing chamber, an arbor journaled in said boss and extending into said chamber, a dial fixedly coupled to said arbor and overlying said front wall, a plurality of peripherally recessed tumblers loosely mounted on said boss, a drive wheel fixed to the end of said arbor extending into said tumbler housing chamber for adjusting said tumblers, said housing having a rearwardly opening recess therein opening through said rear cover plate for receiving and enveloping a hasp staple, a bolt plate in said chamber slidably intercoupled with said arbor for sliding movement between said drive wheel and rear wall, a lever pivoted on said bolt plate having fence means overlying the tumbler peripheries and a dog engaging said drive wheel, means intercoupling said dog with said drive wheel when the tumbler recesses are aligned to receive said fence means therein for moving said bolt plate on rotation of said drive wheel, and a bolt integral with said bolt plate and projecting into said hasp staple recess to be selectively shifted into and out of locking relation with a hasp staple disposed in said recess on movement of said bolt plate.

2,658,374
COMBINATION LOCK
Herbert C. Behrens, Canton, Ohio, assignor to Diebold, Incorporated, Canton, Ohio, a corporation of Ohio
Application March 2, 1950, Serial No. 147,267
6 Claims. (Cl. 70—133)

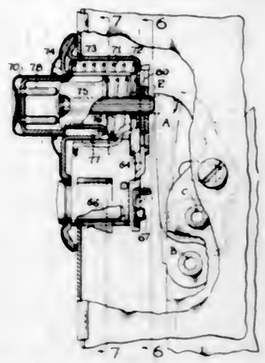


1. In combination lock construction, a base wall, a tube extending from one side of the base wall, a spindle journalled and longitudinally slidable in the tube, one or more tumblers journalled on the tube, a dial knob on the spindle on the other side of the base wall, a cam on the spindle beyond the tube and the tumblers, the spindle cam including a head and the spindle cam head

having a portion adjacent the tube and tumblers formed with an outwardly opening cam notch, the remaining peripheral sector of the notched portion of the spindle cam head being cylindrical and the portion of the spindle cam head beyond the notched portion being entirely cylindrical and merging with the cylindrical peripheral sector of the notched portion, the tumblers each being formed with an outwardly opening notch, drive means operative between the spindle cam and the adjacent tumbler and drive means operative between each adjacent pair of tumblers, a bolt mounted on the base wall for movement to and from an extended locking position, the bolt having an inner end adjacent the tumblers and the inner end of the bolt having a notch formed therein and opening towards the tumblers, an operating lever, a pivotal connection between the operating lever and the bolt, the operating lever including an upper arm extending above the spindle and having a cam follower tongue depending towards the spindle cam, the spindle cam head notch being arranged for alignment with the cam follower tongue in the direction of the longitudinal axis of the spindle when the combination is set, spring means operative to yieldingly maintain the spindle cam head against the opposite end of the tube when the bolt is in the extended locking position and during setting of the combination, and the cam tongue riding on the entirely cylindrical portion of the spindle cam head when the bolt is in the extended locking position and during setting of the combination, the cam tongue being arranged to drop into the spindle cam notch when the dial knob is pushed towards the base wall after setting of the combination and the spindle and the spindle cam are moved so that the spindle cam head notch is beneath the cam tongue, spindle actuated intermediate stop means interposed and operative between the spindle cam and the tumblers and the bolt, and the intermediate stop means including an actuating member interfitting with the spindle cam head and movable thereby and a stop member located between the bolt and the tumblers, the stop member being movable by movements of the actuating member, the stop member including oppositely extending first and second tongues, the first tongue extending towards the tumblers, and the second tongue extending towards the bolt, the first tongue being located to be moved into the aligned notches of the tumblers when the combination is set and the spindle is moved to the position with the spindle cam head notch beneath the cam follower tongue and the second tongue being located to be then aligned with the bolt notch.

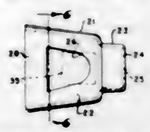
2,658,375
LOCK MEANS FOR DOOR CONTROL MECHANISM
Edwin L. Allen and Angelo R. de Vito, Cleveland Heights, Ohio, and Harold B. Muster, Bluffton, Ind., assignors to Rudolph I. Schonitzer, Cleveland, Ohio
Original application January 21, 1947, Serial No. 723,330, now Patent No. 2,587,583, dated March 4, 1952. Divided and this application July 6, 1951, Serial No. 235,404
6 Claims. (Cl. 70—207)

1. In a door control mechanism, a push rod susceptible of reciprocatory movement in the direction of its longitudinal axis; a resilient member biasing the push rod to one end of the locus of its reciprocatory movement; key controlled mechanism for rotating the push rod; a barrier mounted on the push rod for reciprocation and rotation therewith, said barrier having both effective and ineffective areas; and a



plunger having a part for impingement on the barrier to move the push rod to opposite end of the locus of its reciprocatory movement.

2,658,376
AUTOMOBILE DOOR LOCK PROTECTOR
Ray M. Shank, Goshen, Ind.
Application October 9, 1950, Serial No. 189,114
1 Claim. (Cl. 70—455)

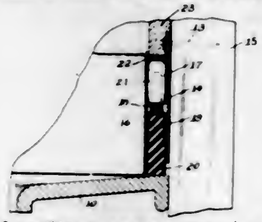


A cover for a door handle having a body portion and a latch actuating member projecting therefrom, said member embodying a key-operable lock having a keyhole in its outer end, said cover comprising a flexible body symmetrical about the horizontal medial plane thereof whereby it is adapted for installation optionally upon either right or left hand handles without requiring being turned inside out, an elongated end on said body adapted to receive said latch actuating member and having an aperture in the end wall of said elongated end in alignment with said keyhole whereby a key may be inserted into said keyhole without distorting said cover, said body having an aperture in the side wall of said body which permits said body portion of said handle to extend therethrough, and said cover having a groove in its interior surface and extending substantially throughout the length thereof for draining moisture out of the interior of said cover.

2,658,377
SEALING APPARATUS FOR OPEN-TOPPED LIQUID RECEPTACLES
Harold T. Bashor and Carroll T. Lutz, Columbus, Ohio
Application July 25, 1947, Serial No. 763,588
1 Claim. (Cl. 72—0.5)

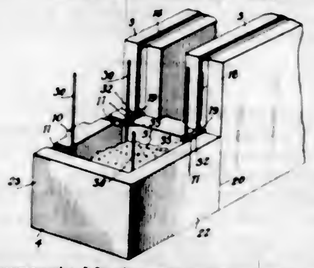
Apparatus for protecting walls disposed in adjoining relation to the upper rim of an open-topped liquid receptacle comprising a strip-like housing having a flat back wall for abutting engagement with a wall support and a front wall secured along its top edge portion to the corresponding top edge portion of said back wall and disposed throughout a major portion of its depth in spaced relation to said back wall and defining

therewith a downwardly opening chamber, the front wall of said housing being formed intermediate its depth with a laterally projecting coextensive ledge providing both the top wall of said chamber and a shelf to receive the lower edge portion of a layer of wall surfacing material applied externally to the wall support abutted by the back wall of said housing, a plurality of open-ended sleeves affixed to one of said walls at substantially right angles to the bottom edge of the housing at longitudinally spaced intervals thereof and being contained within the upper portion of said housing chamber and opening into the lower portion of said chamber, a continuous seal-



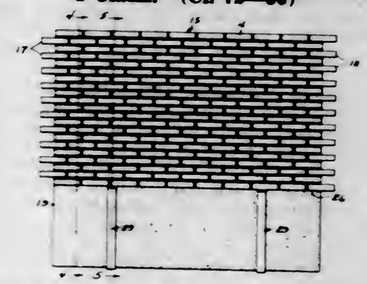
ing strip of resilient waterproof material slidably positioned within said lower portion of the housing chamber and having a lower edge portion projecting downwardly and outwardly from said housing for engagement with the upper rim of a receptacle, said sealing strip being provided along its upper edge with a plurality of longitudinally spaced projections slidably extending into said tubular sleeves, and spring means contained in said sleeves and encircling said projections, said spring means reacting against the top wall of said chamber and the upper edge of said sealing strip and being operative to resiliently urge said sealing strip downwardly and outwardly of said housing.

2,658,378
CONCRETE BLOCK CONSTRUCTION
Ernesto Fiordelisi, New York, N. Y.
Application October 10, 1950, Serial No. 189,349
1 Claim. (Cl. 72—16)



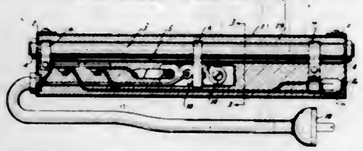
In a concrete block wall construction, a pair of spaced-apart wall slabs providing an air space between them, a hollow block adjacent to one end of the slabs, said block having opposite walls, at least one of which is arranged with a central vertical rib positioned between the slabs and maintaining the slabs in spaced relation, each slab having a continuous circumferential groove in its edge, at least some of the slabs being provided with a tongue at one end and a notch at the other end, the groove extending through said tongue and notch, said slab having a central horizontal tie rod passage through it, each passage being surrounded by parts of the body of a respective slab, said tie rod passage emerging at one end in the notch and emerging at the other end out of the tongue in those slabs which are provided with a tongue and notch, the slabs being each of greater height than the block, the block having spaced grooves provided in the upper edge of its ribbed wall, said spaced grooves being in axial alignment with the tie rod passages in the slabs, tie rods extending through the tie rod passages and entering the interior of the block through said grooves, and air passages through the ribbed portions of the walls of the block for establishing communication between the interior of the block and the air space between the slabs.

2,658,379
PORTABLE BRICK WALL
Frank Richard Allen, Roxbury, Mass.
Application March 3, 1947, Serial No. 732,069
1 Claim. (Cl. 72—36)



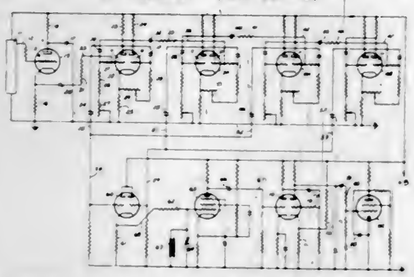
A preformed building wall faced section comprising a front brick portion and a rear concrete portion on the rear of the brick portion said brick portion having at the opposite sides of the section the ends of the alternate bricks extending outwardly of the sides of the brick portion with the alternate bricks spaced from one another so that when the sides of two sections are placed in contacting relation with each other the outwardly extending alternate spaced bricks of one of the sections will extend between the outwardly extending alternate spaced bricks of the other sections, the bottom of the concrete portion having a depending portion integral therewith with the lower longitudinal edge of the depending portion depending below the lower longitudinal edge of the brick portion and offset therefrom, a recess in the top longitudinal edge of the concrete portion in alignment with the depending portion and of substantially the same cross-section so that a depending portion of another section can be disposed in the recess on the top of said first section during the construction of the wall with the brick portions of the sections in the same vertical plane, reinforcing pipes extending throughout the height of the concrete portions with certain of said pipes in the depending portion and other pipes within the concrete portion extending along the recess, and a Z-shaped reinforcing member spanning the concrete portion and the brick portion and being secured to the concrete portion and the last named pipes so that a portion of said member engages the lower longitudinal end of the depending portion, another portion of the reinforcing member engages the face of the depending portion offset from the front brick portion and a third portion of the reinforcing member contacts the remaining portion of the lower longitudinal edge of the concrete portion and the lower longitudinal edge of the brick portion so that said latter portion will engage the upper longitudinal edge of a section on which the first section is positioned to form a support for said first section during the building of the wall construction.

2,658,380
CALIBRATOR FOR THERMOSTATS
Vincent J. Evans, Lakewood, Ohio
Application January 5, 1951, Serial No. 204,621
6 Claims. (Cl. 73—1)



1. A calibrator for a thermally responsive control device and comprising a hollow casing, supporting means in, and extending endwise of, the casing and adapted to receive a thermally responsive element of the control device, said casing having an end wall with an opening therein for permitting insertion of the thermally responsive element into the casing in proper position on the supporting means, an electric heating element in the casing and extending endwise thereof alongside of, and in closely spaced relation to, the supporting means, a normally closed thermostatically operated electric switch in the casing closely adjacent the heating element and on the opposite side of the heating element from the supporting means and adapted to open and close at predetermined temperatures, electrical conductor means connecting the switch and heating element in series with each other, and including means accessible from the exterior of the casing adapted for connecting the conductor means to opposite sides, respectively, of a source of power.

2,658,381
APPARATUS FOR TIMING A BALANCE WHEEL ASSEMBLY
Samuel A. Johnston, Walworth, and Parker B. Wickham, Delavan, Wis., assignors to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Application September 23, 1948, Serial No. 50,786
2 Claims. (Cl. 73—6)



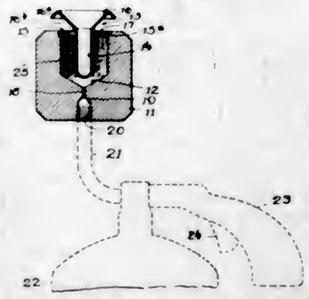
1. Apparatus for timing a balance wheel having a low beat frequency, comprising means responsive to oscillation of said wheel for generating impulses of beat frequency, a stroboscopic indicator including impulse responsive means for producing a light spot which moves in one direction or the other depending on whether the received impulses are fast or slow, means responsive to each impulse generated by said wheel for generating a series of impulses having a higher frequency which is a multiple of the correct beat frequency, said series being spaced apart by time intervals which depend on the rate of said balance wheel and which are the same as the intervals between said multiple frequency impulses if the rate of the wheel is correct, a circuit over which impulses are transmitted to said indicator, and means responsive to said series of impulses for generating successive series of impulses in said circuit, whereby said light spot remains stationary during each series of received impulses and moves only at the beginning of each series if the rate of said wheel is incorrect.

2,658,382
MELTING POINT APPARATUS
John Vanderkamp, West Orange, N. J.
Application October 29, 1948, Serial No. 57,180
5 Claims. (Cl. 73—17)



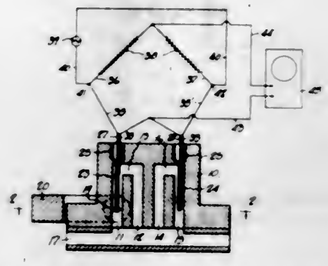
1. In a melting point apparatus, an insulated covered chamber, said chamber having means forming a window in the side, a transparent cover for said window, a mass of solid of high heat conductivity snugly fitting into said chamber, there being a vertical centrally disposed opening extending through said solid to receive the sample to be melted, there being means forming a hole in the side of said mass in registry with the window in the chamber to allow view therein from the outside and in communication with said vertically disposed opening, the lower face of said mass having a plurality of means forming vertically extending holes, heating rods disposed within said last mentioned holes, and illuminating means beneath the bottom of said vertical opening in said mass for illuminating the sample.

2,658,383
FREEZING POINT TESTER
Alfred S. Chipley, Mundelein, Ill., assignor to Burgess-Manning Company, Libertyville, Ill., a corporation of Illinois
Application June 2, 1950, Serial No. 165,834
11 Claims. (Cl. 73—17)



4. In a freezing point tester of the class described, a relatively deep metallic liquid receptacle, a heat insulating body telescopically receiving the receptacle in spaced relation, a metallic interstitially constituted heat conductive element surrounding said receptacle within the body, the heat conductive element being in the form of a plurality of layers of metallic screen, and means for admitting a charge of refrigerant to the space between the body and the receptacle.

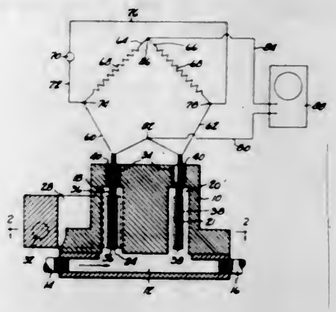
2,658,384
GAS MEASURING DEVICE
Robert D. Richardson, Michigan City, Ind., assignor to The Hays Corporation, Michigan City, Ind., a corporation of Indiana
Application May 24, 1945, Serial No. 595,569
2 Claims. (Cl. 73—27)



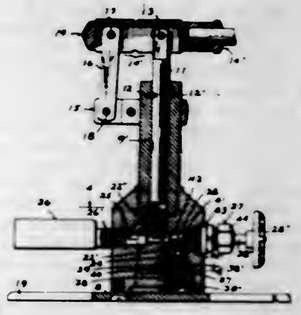
1. In a gas measuring device comprising a rigid test cell having a gas chamber and inlet and outlet passages, a magnet carried by said cell shaped to produce a heterogeneous magnetic field in a portion only of said chamber, said cell having passages communicating with said chamber, pole pieces for said magnet mounted in said passages, said magnet being pivoted to swing to and from said pole piece magnetizing position, a heating element projecting into said chamber with a portion thereof positioned fixedly in said magnetic field, a second heating element projecting into and positioned fixedly in said chamber remote from said field, and means for measuring the difference in temperature of said elements each heating element including a rigid insulation member and a pair of leads connected at one end and imbedded in spaced relation in said member, whereby current flows therethrough in opposite directions and the effect of said heating element in said magnetic field is neutral.

2,658,385
GAS MEASURING DEVICE
Robert D. Richardson, Michigan City, Ind., assignor to The Hays Corporation, Michigan City, Ind., a corporation of Indiana
Application July 23, 1947, Serial No. 762,903
8 Claims. (Cl. 73—27)

1. In a gas measuring device, a test cell formed of non-magnetic material, said cell having a gas passage and a pair of chambers communicating with said passage, a pair of similar elongated rigid electric heating elements each projecting into one of said chambers, each of said chambers having a longitudinally extending portion of reduced transverse dimension in which one of said elements is positioned, the reduced dimension longitudinal portion of one chamber being magnetizable, the other chamber being of such size and volume and having a heating element so located therein that the heat transfer which occurs therein balances the heat transfer which occurs in the first chamber when not magnetized, inserts carried by said cell and formed of material defining a magnetic flux path projecting into said one chamber to define said reduced dimension, and means for creating a magnetic field in and between said last named inserts, said inserts being substantially coextensive with the length of the element juxtaposed thereto.

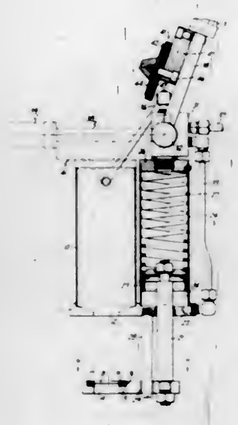


2,658,386
HYDROSTATIC TEST UNIT
Roger H. Guichard, Walnut Creek, Calif.
Application September 29, 1949, Serial No. 118,492
2 Claims. (Cl. 73—37)



1. In a hydrostatic high-pressure pressure-test unit for a closed system of relatively high volumetric capacity, a one-piece homogeneous body block mounting a pump cylinder, a piston reciprocative in said cylinder, means mounted on the block for actuating said piston in suction and pressure strokes thereof, a suction intake duct extending to the cylinder solely through and within the block from an exterior point of the block, a check valve operative in said intake duct, means for constantly connecting the inlet end of the intake duct at said exterior block point with a source of liquid external to the unit, a discharge duct from the cylinder extending solely through and within the block to a second exterior point thereof, a check valve operative in said discharge duct, means mounted on the block exterior for directly connecting the outlet end of the discharge duct with the closed system to be pressure-tested, and a pressure gauge mounted entirely and directly on the block and connected with the discharge duct by a branch thereof within the block and at the discharge side of the check valve therein for constantly gauging the pressure in a closed system under test.

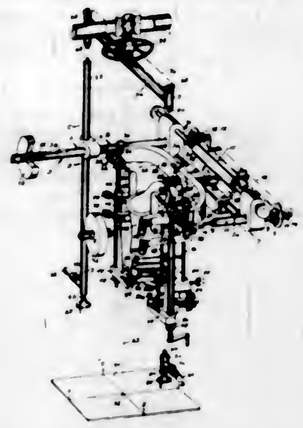
2,658,387
SEDIMENT TESTING APPARATUS
Donald B. Turner, Petaluma, Calif., assignor to Western Condensing Company, San Francisco, Calif., a corporation of California
Application June 22, 1951, Serial No. 232,955
4 Claims. (Cl. 73—61)



1. In a sediment testing apparatus, a chamber adapted to contain a sample of material having sediment solids, said chamber having a lower opening for discharge of the sample, means including a platen movable between clamping and released positions with respect to said chamber for removably applying a filter member across said opening, spring means for urging said platen toward released position of the same, pneumatic motive means for urging the platen toward clamped position of the same, a control valve adapted to be connected to a source of air under pressure, and connections from said control valve to said pneumatic motive means and to said chamber, said control valve in one operating position of the same serving to apply pneumatic pressure to said pneumatic motive means and to said sample chamber to discharge a sample from the same, said control valve in another operating position of the same serving to vent pressure from said pneumatic motive means to permit movement of said platen to released position of the same.

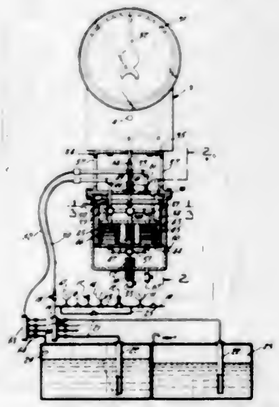
2,658,388
ORTHOPEDIC BALANCING APPARATUS FOR LEG AMPUTEES
Erich Feine, Ravensburg, Germany
Application October 23, 1950, Serial No. 191,623
Claims priority, application Germany
October 24, 1949
13 Claims. (Cl. 73—172)

1. An orthopedic balancing apparatus for leg amputees comprising, in combination, a frame; a universal joint arranged in said frame above the levels of the centers of gravity of the amputee and of the balancing apparatus; a device for supporting a socket and the amputee, said device being suspended from said frame by said universal joint so as to be movable in three planes; and means included in said device for moving said socket and for bringing the median line of the amputee into coincidence with the line of gravity of the balancing apparatus when



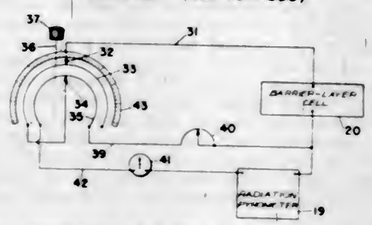
the amputee assumes a planned one-legged attitude on the brim of said socket.

2,658,389
PRESSURE RESPONSIVE DEVICE FOR DETERMINING THE DEPTH OF LIQUIDS
Ivan D. Eby, New York, N. Y.
Application September 26, 1950, Serial No. 186,708
10 Claims. (Cl. 73—302)



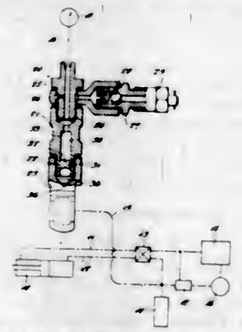
6. A device for gaging liquid depths in a remote container comprising a force measuring mechanism including a frame, a dial and a pointer movable over the dial, a pendant load supporting rod whose vertical movement is registered by the pointer, a yoke carried by said rod and extending downwardly and carrying a plate adapted to receive a load and actuate the pointer, a plate carried by said frame and within the yoke and above the first plate, expansion bellows between the plates, and a frame-carried gas pressure conduit opening into all the bellows so that the load applied is proportional to the pressure, and means to regulate the pressure to that sufficient to pass the gas through the depth of the liquid in the container.

2,658,390
RADIATION PYROMETRY
Raymond C. Machler, Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 6, 1948, Serial No. 6,771
9 Claims. (Cl. 73—355)



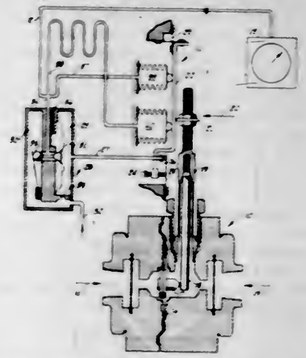
1. A pyrometer for the measurement of the temperature of a mass comprising a barrier layer cell responsive to thermal radiation of short wavelength from said mass within a predetermined band lower than seven-tenths of a micron for producing a current output in accordance therewith, a radiation pyrometer responsive to thermal radiation of long wavelength from said mass within a substantially different band above one micron and including radiation of wavelength of three microns and above for producing a potential difference output in accordance therewith, an optical system for directing radiation from said mass to said barrier layer cell and to said radiation pyrometer, a resistor in series-circuit relation with said barrier layer cell for developing from the current output from said barrier layer cell a potential difference, means including circuit connections from said resistor to said radiation pyrometer for applying a variable fraction of said potential difference in opposition to the potential difference produced by said radiation pyrometer, and means including a scale and associated element relatively movable with change of said fraction for indicating the temperature of said mass when said fraction equals said last-named potential difference.

2,658,391
PISTON AND CYLINDER TYPE FLUID PRESSURE GAUGE CONNECTING DEVICE
Charles R. A. Grant, London, England, assignor of one-half to Pressure Gauges Limited, Dublin, Eire
Application April 10, 1950, Serial No. 154,916
2 Claims. (Cl. 73—389)



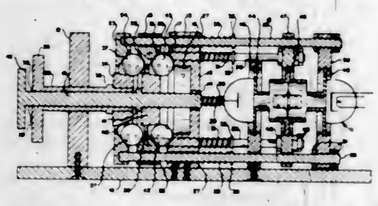
1. In a gauge system of the type involving a fluid conduit between a gauge and a body subject to fluctuations to be measured, the improvement that comprises a cylinder interrupting the said fluid conduit, one end of said cylinder having one port connected to the portion of the fluid conduit leading to the gauge and the other end having another port connected to the portion of the fluid conduit leading to the body, a piston in said cylinder free to reciprocate therein from a position contiguous to said one port to a position contiguous to said other port, a seat in said cylinder for said piston surrounding said one port, a stop in said cylinder for said piston contiguous to said other port, means on said piston for preventing fluid-tight engagement with said seat, said piston fitting said cylinder with clearance such that the fluid leaks past the piston only when said piston engages either said seat or said stop and is thereby restrained against movement with the liquid.

2,658,392
PRESSURE INDICATING PNEUMATIC TRANSMISSION SYSTEM
William E. Vannah, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application July 20, 1951, Serial No. 237,787
2 Claims. (Cl. 73—407)



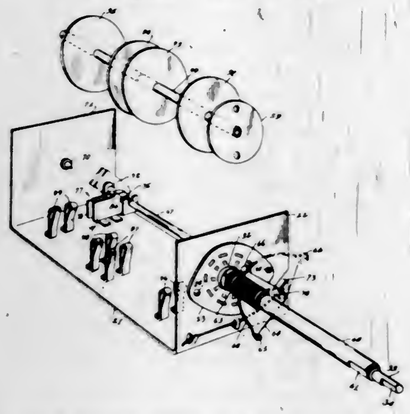
1. A measuring instrument pneumatic system comprising in combination; a pneumatic transmitter including a nozzle, means for connecting said nozzle with a pneumatic power supply, a pivoted baffle for receiving the force from an applied pressure and movable thereby with respect to said nozzle to provide varying opposition to pneumatic flow therefrom, and a pneumatic relay connected to said nozzle; a bellows connected to the output of said relay for moving said baffle in amplification of and in opposition to said applied pressure in response to back pressure effect in said relay resulting from said flow opposition, a pneumatic indicator-receiver located at a substantial distance from said transmitter, a long transmission pipe connecting the output of said transmitter relay and said receiver, and a pneumatic feed-back system between the output of said transmitter relay and said baffle, said feed-back system comprising a series arrangement of a pair of time constant assemblies each having a pneumatic resistance followed by a fixed pneumatic capacity, said assemblies having equal time constant values with the pneumatic resistance values thereof increasing from input to output and the pneumatic capacity values thereof decreasing in like order, and a variable pneumatic capacity unit following said series of assemblies in the form of a bellows for engaging said baffle in opposition to said applied pressure, with said feed-back system being proportioned to have transfer lag in approximate duplication of the transfer lag of said long transmission pipe.

2,658,393
MECHANICAL TUNING DEVICE
John P. Woods, Dallas, Tex., assignor to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,096
10 Claims. (Cl. 74—1)



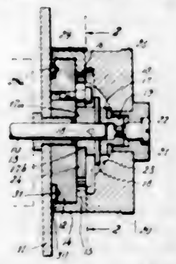
1. A mechanical movement comprising a first member having an inwardly tapering first surface, a pair of aligned members of wedge-shaped cross-sectional areas disposed with the smaller ends thereof facing said inwardly tapering surface, a second member having a first aperture therein spaced from said first member and having opposed second and third surfaces inwardly tapering toward said aperture, said second surface facing said first surface, one of said wedge-shaped members being disposed within said aperture, a third member having a second aperture therein and a fourth surface inwardly tapering toward said aperture and facing said third surface, the other of said wedge-shaped members being disposed within said second aperture, a plurality of ball bearings of uniform size disposed between and in contact with said one wedge-shaped member and said first and second members, a second plurality of ball bearings of uniform size disposed between and in contact with said other wedge-shaped member and said second and third members, and means for simultaneously moving said pair of wedge-shaped members toward and away from said first member.

2,658,394
TUNER
Thomas Fisher Gossard, North Hollywood, Calif., assignor to Standard Coil Products Co. Inc., Los Angeles, Calif., a corporation of Illinois
Application May 16, 1951, Serial No. 226,718
2 Claims. (Cl. 74—10.45)



1. In a tuning device having a plurality of individually selectable pre-tuned elements; a rotatable shaft for effecting the selection of said pre-tuned elements; an additional infinitely variable tunable element rotatively operable between predetermined limits on a shaft having an independent axis displaced from said first mentioned rotatable shaft; co-axial operating members for said rotatable shaft and said variable tunable element comprising an operating shaft for said variable tunable element; means for rotating said first mentioned rotatable shaft; a sleeve rotatably mounted on said first mentioned rotatable shaft; means for rotating said sleeve; and a connection between said sleeve and said second mentioned shaft, said connection comprising a coiled spring mounted on and rigidly attached to said sleeve; and a resilient sector shaped member; said resilient shaped member having one end rigidly attached to said second mentioned shaft and the other end in tangentially frictional engagement with said coiled spring.

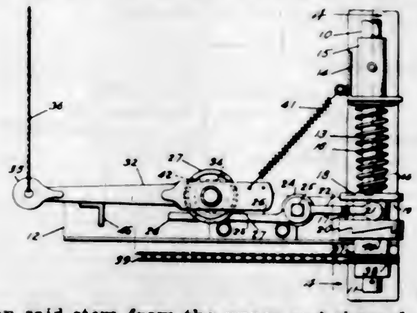
2,658,395
DIFFERENTIAL KNOB DEVICE
Vincent J. Coates, South Norwalk, Conn., assignor to The Perkin-Elmer Corporation, Norwalk, Conn., a corporation of New York
Application November 15, 1951, Serial No. 256,509
7 Claims. (Cl. 74—10.52)



1. A differential knob device for rotating a shaft, which comprises a base having an external bearing surface and a central opening for the passage of the shaft, a coarse dial member encircling and mounted for rotation on the base and having an internal flange engaging one end of the base, the inner edge of the flange being provided with internal gear teeth, a fine dial member engaging the outer surface of the coarse dial member and having a central passage through it, a bushing within said passage having a central bore for the shaft and an external bearing surface eccentric with the bore, an external ring gear of less teeth than the number of teeth on said flange having an axial opening receiving the eccentric bearing surface with part of the teeth of the gear engaging teeth on the flange, the ring gear having an eccentric opening parallel to its axis, a projection on the base entering the eccentric opening in the gear, the projection being smaller than said opening, and means attached to the bushing and clamping said dial members together and the coarse dial member against the base.

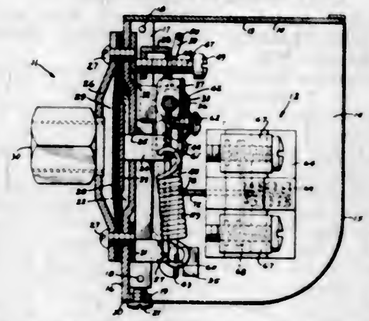
2,658,396
CAM AND LEVER ACTUATING MECHANISM
Harry C. Christiance, West Brooklyn, Ill.
Application May 1, 1950, Serial No. 159,364
1 Claim. (Cl. 74—96)

An actuator for a clutch comprising a support, pins carried by and projecting upwardly from said support in transversely spaced relation to each other, a clutch engaging lever pivotally mounted about one pin and having a clutch-engaging portion and a handle extending laterally therefrom towards the other pin in crossing relation to a side thereof, the second pin being elongated and constituting a stem and being threaded from its upper end for a portion of its length, a cam member having a shank rotatable about the lower portion of said stem and having its lower end bearing against the support, a head at the upper end of said shank projecting radially therefrom and about its periphery carrying an upstanding annular wall defining a pocket having an upper surface and formed along its upper edge with circumferentially extending ratchet teeth, said shank having flat side faces and circumferentially extending arcuate surfaces between the flat faces, said handle bearing against the shank between the support and the projecting portion of the head, a nut secured



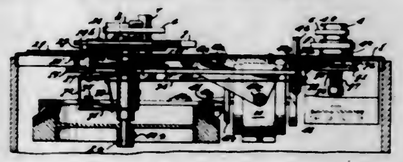
upon said stem from the upper end thereof and disposed in the pocket and engaging the upper surface and rotatably holding the cam member about the stem, an actuating lever pivotally mounted about said stem over the cam member and extending across the toothed upper edge of said wall and radially from the cam member, a spring about said stem resting against said actuating lever, and a nut upon the upper portion of said stem compressing said spring and applying tension to the spring to yieldably hold the actuating lever in operative engagement with the ratchet teeth of the wall whereby the actuating lever may impart turning movement to the cam member when oscillated about the stem and the flat faces and arcuate surfaces of the shank impart oscillating movement to the clutch engaging lever.

2,658,397
CONTROL SWITCH
William H. Hollinshead, St. Paul, Minn.
Application July 28, 1950, Serial No. 176,362
8 Claims. (Cl. 74—100)



1. In a control switch, a support, a flexible diaphram mounted on said support to be subjected to fluid under pressure, a first actuator lever, means rotatably mounting said first actuator lever on said support for swinging movement, first tension means constituted as a rotatably supported length of resilient material engaged with said first actuator lever urging the first actuator lever toward the flexible diaphragm, means for accomplishing rotatable adjustment of said length of resilient material thus to adjust the tension under which the first tension means is capable of urging the first actuator lever toward said flexible diaphragm, a device between and engaged with said flexible diaphragm and said first actuator lever operable in response to increase of fluid pressure upon the flexible diaphragm to swing the first actuator lever in direction away from said flexible diaphragm against force of the first tension means, said first tension means being adapted to swing said first actuator lever and device in direction toward said flexible diaphragm in response to decrease in fluid pressure upon the flexible diaphragm, a second actuator lever, means rotatably mounting said second actuator lever on said support at a location adjacent a portion of the first actuator lever spaced from its mounting means for swinging movement toward and away from the flexible diaphragm and to extend in overlying relation to said first actuator lever toward the mounting means therefor, second tension means connecting a portion of said second actuator lever spaced from its mounting means with a portion of said first actuator lever spaced from its mounting means and disposed at the side of the location where said second tension means is connected with the second actuator lever opposite the mounting means for said first actuator lever for causing said second actuator lever to be swung away from said flexible diaphragm in response to movement of the location where said second tension means is connected to said first actuator lever in direction away from said flexible diaphragm to extent causing the second tension means to become situated at the side of dead center position for the second actuator lever opposite said flexible diaphragm and to be swung toward said flexible diaphragm in response to movement of said location where said second tension means is connected to the first actuator lever in direction toward the flexible diaphragm to extent causing said second tension means to become situated at the side of dead center position for the second actuator lever adjacent the flexible diaphragm, and stop means for limiting the extent of swinging movement of said second actuator lever in either direction.

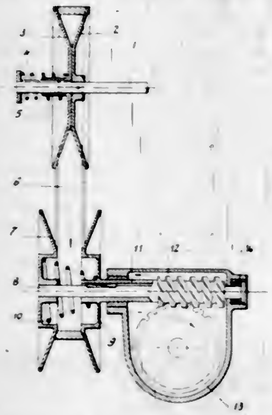
2,658,398
MAGNETIC SOUND-RECORDING AND REPRODUCING MACHINE
Earl E. Masterson, Palmyra, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 29, 1948, Serial No. 35,892
1 Claim. (Cl. 74—190)



In a reeling system for a reelable magnetic record, a capstan for applying a reeling force to said record, a rotatable shaft upon which said capstan is mounted, a flywheel fixed on said shaft,

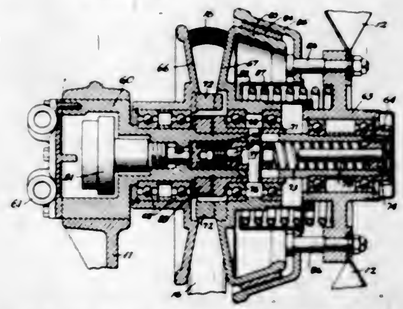
said flywheel having a substantially flat surface portion adjacent to its periphery and an edge portion normal to the axis of said shaft and inclined with respect to said axis, said inclined edge portion constituting a shoulder on said flywheel, a driving shaft having an axis of rotation and mounted for movement in an axial direction, said axis of said driving shaft being normal to the axis of rotation of said first mentioned shaft, said driving shaft having a conical end-portion through which a driving force may be applied to said flat surface portion of said flywheel and an inner wheel-portion of larger diameter through which a driving force may be applied to said shoulder of said flywheel, said shoulder extending radially from the outer peripheral face of said flywheel, adjustable biasing means effectively connected to said driving shaft for maintaining a selected area of said conical end portion of said shaft in frictional driving relation with respect to said flat surface portion of said flywheel whereby to drive said capstan and hence said reelable record at a selected "low" speed, and means for moving said driving shaft against the force of said adjustable biasing means to bring said wheel-portion of said driving shaft into frictional driving relation with respect to said shoulder of said flywheel, whereby to drive said capstan and hence said reelable record at a predetermined "high" speed.

2,658,399
AUTOMATIC SPEED VARIATOR DEVICE
Robert Maurice Mercier, Paris, France
Application February 25, 1948, Serial No. 10,801
In France September 29, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires September 29, 1962
13 Claims. (Cl. 74—230.17)



1. A mechanical arrangement for the automatic transmission of variable speeds between a drive shaft and an output shaft; said mechanical arrangement comprising a driven shaft rotatably mounted parallel to the drive shaft, a worm on said driven shaft, a worm gear fixed on the output shaft and meshing with said worm on the driven shaft to impose an axial force on said worm which varies in response to the load applied to the output shaft, a driving pulley of variable effective diameter mounted on the drive shaft and a driven pulley of variable effective diameter mounted on said driven shaft, each of said driving and driven pulleys including an axially movable side and an axially fixed side formed to vary the effective diameter of the respective pulley in response to relative axial displacement of said movable and fixed sides, said movable and fixed sides of each of said pulleys being held against rotation relative to each other, a transmission belt of fixed length trained around said driving and driven pulleys and operably connecting the latter, first spring means operative to continuously urge the movable side of said driving pulley axially toward said fixed side of the driving pulley, second spring means operative to continuously urge said movable side of the driven pulley axially away from said fixed side of the driven pulley, and means operative to couple said movable side of the driven pulley to said worm for axial and rotational movement with the latter, said worm and worm gear being formed so that said axial force on the worm acts in the direction to oppose said second spring means and tends to displace said movable side of the driven pulley toward said fixed side of the latter.

2,658,400
VARIABLE FAN DRIVE
Adiel Y. Dodge, Rockford, Ill.
Application August 1, 1951, Serial No. 239,707
8 Claims. (Cl. 74—230.17)

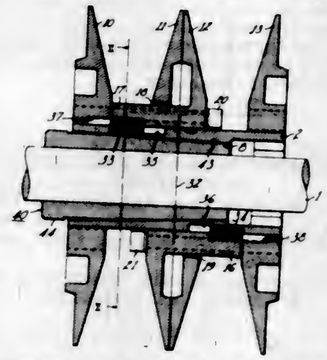


1. In a variable fan drive, a variable pulley including a pair of conical members having diverging faces and shiftable axially relative to each other to engage a belt, a spring urging the members relatively together to urge the belt toward the peripheries thereof, a thermostat expansible in response to temperature, means connecting the thermostat to the members to move them apart, a clutch to connect said pulley to a load, a spring normally to disengage the clutch, and a connection from the thermostat to the clutch to engage it when the thermostat expands.

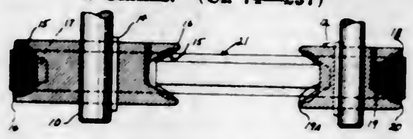
2,658,401
ADJUSTABLE PITCH SHEAVE
Thomas C. Knudsen, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application March 12, 1952, Serial No. 276,153
7 Claims. (Cl. 74—230.17)

1. A variable pitch sheave comprising a support member with a generally cylindrical external surface, first and second annularly shaped belt engaging disks slidably mounted on said support member, actuating means engaging said disks for positively adjusting the axial positions of said disks relative to each other to vary the effective pitch diameter of the sheave, and belt alignment means for maintaining said disks axially symmetrical relative to a predetermined point on said support member which comprises first resilient means between said first disk and said support member for biasing said first disk

in an axial direction and second resilient means between said second disk and said support member for biasing said second disk in the opposite axial direction.



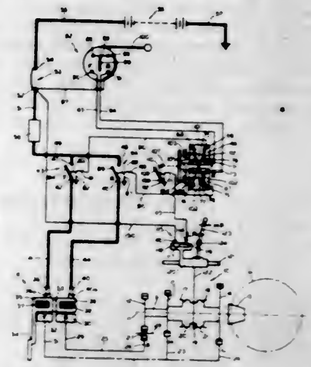
2,658,402
FLEXIBLE ENDLESS BELT CONSTRUCTION
Charles I. Place, Norfolk, Conn.
Original application July 21, 1945, Serial No. 606,325, now Patent No. 2,534,679, dated December 19, 1950. Divided and this application October 25, 1950, Serial No. 192,047
2 Claims. (Cl. 74—237)



1. A power transmission belting for use with pocketed pulleys, and belting including an outermost readily flexible element of substantially inelastic material, and an element of highly compressible rubber-like stock, the said stock characterized by a compressibility in depthwise and transverse directions of at least one-third, the said stock being highly porous and profusely cellular, thereby adapting any given portion of the highly compressible stock for alternating compression and expansion, first laterally and then depthwise as the belt operates over the pulleys, whereby to approximate a positive drive condition, and to permit the whole layer of porous, cellular, highly compressible stock to breathe, said elements being secured together substantially over their adjacent surfaces.

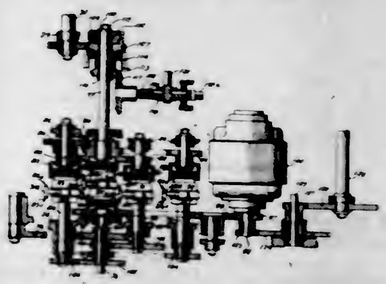
2,658,403
CONTROL SYSTEM FOR TRANSMISSIONS
George P. Marco, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application November 13, 1950, Serial No. 195,184
6 Claims. (Cl. 74—330)

1. For use in a transmission having a main shaft and a driven shaft, axially spaced gears fixed on said main shaft, axially spaced gears rotatably mounted on said driven shaft and driven from said gears on said main shaft, means for selectively coupling said rotatable gears to said driven shaft whereby said driven shaft may be driven in either one of two drive ratios, a quill rotatably mounted on said main shaft, reverse drive gear means between said quill and one of said rotatable gears, a forward drive eddy current clutch associated with said main shaft, and a reverse drive eddy current clutch associated with said quill, control means comprising, means for selectively energizing one of the eddy current clutches, and means for effecting momentary de-



energization of the one clutch and simultaneous energization of the other clutch for braking the gears when a shift from one ratio drive to the other ratio drive is effected.

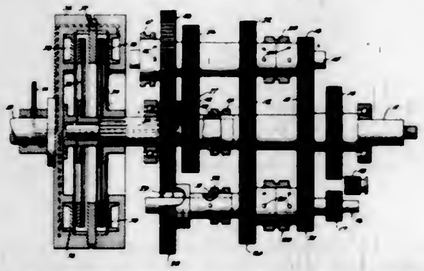
2,658,404
MACHINE TOOL DRIVE
William Wallace Potter and Alfred Joseph Fuller, Pawtucket, R. I., assignors to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application August 8, 1947, Serial No. 767,460, now Patent No. 2,561,753, dated July 24, 1951, which is a division of application Serial No. 537,490, May 26, 1944, now Patent No. 2,455,876, dated December 7, 1948. Divided and this application November 25, 1949, Serial No. 129,204
3 Claims. (Cl. 74—331)



1. In a machine having operable parts, the improvement comprising a transmission mechanism between said parts and having a main shaft connected with one of said operable parts, clutch-head rotatably mounted on said main shaft, a shiftable clutch-member splined on said main shaft to engage and disengage said clutch head, a cluster gear rotatable with said clutch-head about said main shaft, a plurality of countershafts disposed about said main shaft and each having a clutch-head rotatably mounted thereon and carrying a gear meshing with one of said gears respectively of said cluster gear, a shiftable clutch member on each of said countershafts respectively and splined thereto to engage or disengage its respective clutch head, a gear fast on each of said countershafts respectively, an auxiliary rotatable shaft aligned with one end of said main shaft and having a plurality of gears

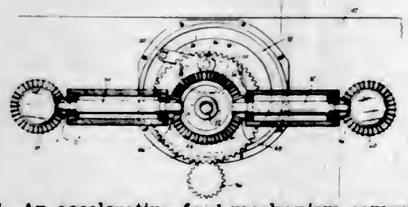
fast thereon and each meshing with said gears respectively on said countershafts, and a gear connection between said other of said operable parts and said auxiliary shaft, the gear connections between said cluster gear and each of said countershafts being of different ratios and the gear connections between each of said countershafts and said other operable part being of different ratios, means for operating said shiftable clutch-members whereby to vary the rate of movement of said operable part connected with said main shaft.

2,658,405
SELECTIVE GEAR TRANSMISSION
Adiel Y. Dodge, Rockford, Ill.
Application December 29, 1950, Serial No. 203,386
10 Claims. (Cl. 74—331)



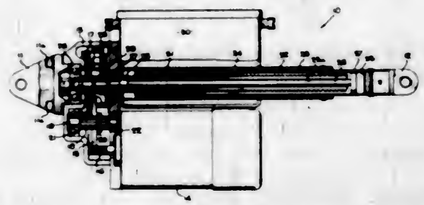
1. A transmission for connecting a driving shaft to a driven shaft comprising a pair of countershafts parallel to and spaced from the driven shaft, a plurality of pairs of gears on the driven shaft and the countershafts providing different gear ratios, means for selectively making the pairs of gears effective to drive the driven shaft, an input gear connectable to each of the countershafts, said input gears being of different sizes, coaxial driving gears meshing with the input gears respectively, an additional input gear rotatable on the countershaft to which the smaller input gear is connected and meshing with the driving gear which meshes with the larger input gear, a clutch for connecting the additional input gear to the shaft on which it is mounted, and clutches for selectively connecting the driving gears to the driving shaft.

2,658,406
VARIABLE SPEED FEED MECHANISM
John Gibson McIlvain, Jr., East Caln Township, Chester County, Pa.
Application May 4, 1951, Serial No. 224,598
9 Claims. (Cl. 74—394)



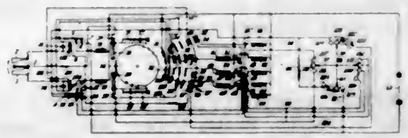
1. An accelerating feed mechanism comprising a rotatable input member, a rotatable output member coaxial therewith, a sun gear on one of said members, a planet gear sector carried by the other member and meshing with the sun gear, an arm extending from said gear sector for oscillating the same, a cam follower carried by said arm, and a stationary cam track receiving said cam follower and surrounding the axis of said rotatable members, said cam track being so shaped as to oscillate the sector during revolution of the same and to thereby introduce accelerating and decelerating components into the drive from one of said members to the other.

2,658,407
NONJAMMING STOP FOR LINEAR ACTUATORS
James E. Chapman, Los Angeles, and Lloyd D. Bevan, Van Nuys, Calif., assignors to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application June 3, 1949, Serial No. 97,054
12 Claims. (Cl. 74—424.8)



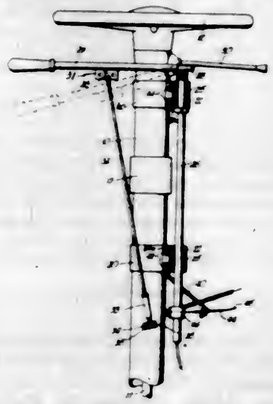
1. A non-jamming stop for members movable rotatively and translationally of each other to one limit of movement thereof, comprising: a first stress member secured to one of said movable members; a second stress member secured to the other of said movable members; friction surfaces on said stress members, at least one of said stress members being adapted to convert at least a portion of the kinetic energy of a jam to the potential energy of a longitudinal and torsional stress in one of said stress members upon frictional engagement of said surfaces; and means for imparting rotative movement to one of said movable members.

2,658,408
ELECTRICAL CONTROL MEANS FOR CHANGE-SPEED GEARING
Albert Arthur Miller, Coventry, England, assignor to M. & W. Patents Limited, Coventry, England
Application May 31, 1951, Serial No. 229,114
Claims priority, application Great Britain June 5, 1950
21 Claims. (Cl. 74—472)



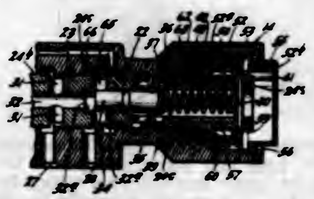
1. Change speed gearing having electrical control means comprising, in combination, two first circuits controlled by contact making members, means adapted to be controlled by a speed sensitive device driven from the input side of the speed gearing for actuating said contact making members to control said circuits alternatively, stepwise actuatable means controlled by one of said first circuits for effecting engagement of a next higher gear when actuated and controlled by the other of said first circuits for effecting engagement of a next lower gear when actuated, a manually operable selection switch means controlling said first circuits and having a plurality of positions, further circuits controlled by said selection switch means, and electrical means for controlling engagement of different gear ratios in said further circuits, whereby gear changing is effected either automatically or by manual selection according to the position of said selection switch means.

2,658,409
CONTROL MECHANISM FOR VEHICLES
Harry W. Hughes, River Forest, Ill.
Application August 12, 1952, Serial No. 303,867
3 Claims. (Cl. 74—484)



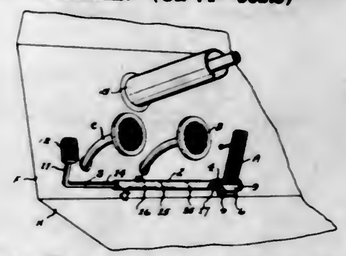
1. In combination with a steering column and the automatically movable gear selecting and shifting means of a motor vehicle; a shaft journalled adjacent and substantially parallel to said steering column; a handle having one end pivoted to said shaft and extending transversely; an arm mounted on the lower end of said shaft; a spring connecting said arm to a stationary portion of vehicle body; a slidable cable connected to said arm and normally connected to the gas control means of the vehicle; a metal link pivotally connected at one end thereof to an intermediate portion of said handle; a clamp mountable on the brake pedal; and an adjustable connecting member, including a ball joint, pivotally connecting said link and said clamp whereby manual movement of said handle toward or away from said brake pedal will be transmitted to move said brake pedal.

2,658,410
RELEASABLE DETENT MECHANISM
Carlos B. Livers, North Hollywood, Calif., assignor to Bendix Aviation Corporation, North Hollywood, Calif., a corporation of Delaware
Original application October 31, 1949, Serial No. 124,711. Divided and this application April 16, 1951, Serial No. 221,271
1 Claim. (Cl. 74—527)



In combination with a pair of inner and outer telescoping members relatively movable past each other, a detent mechanism for releasably retaining said members in a predetermined relative position comprising: a pair of coaxial cylindrical elements of the same external diameter on one of said members movable as a unit therewith and relatively movable apart from each other to form a recess therebetween and together into abutting relation to eliminate said recess; a spring detent on said other member movable therewith past said one member and engageable with said recess when said elements are apart and said members are in said predetermined position; and means for moving said elements together to eliminate said recess and thereby eject said detent therefrom, to reduce the retaining effect of said detent mechanism on said members.

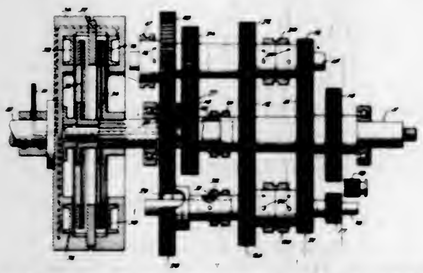
2,658,411
AUXILIARY FOOT ACCELERATOR DEVICE
Carl A. Eversman, Lorain, Ohio
Application October 26, 1951, Serial No. 253,310
5 Claims. (Cl. 74—562.5)



1. An auxiliary foot accelerator for the purposes described and comprising an elongated tubular member having its axial passage circular in cross section, an elongated extension member having a portion telescopically accommodated in said passage for free movement endwise thereof in opposite directions and for rotation about the axis of the passage relative to the tubular member and having a portion extending outwardly endwise of the passage beyond one end of the tubular member, said extension member having on its telescopically accommodated portion a shoulder which extends chordally of the passage and is elongated endwise of the extension member, said tubular member having a threaded opening which extends through the wall of the tubular member, a screw in threaded engagement with the threads of the opening and having its inner end in the passage and engageable by said shoulder in predetermined telescoped positions of the members for constraining the members to rotate together in one direction about the axis of the tubular member and disengageable from said shoulder by relative rotation of the members in the opposite direction, said screw being positioned endwise of said tubular member so that its inner end is out of the path of the shoulder when the members are moved relatively endwise from said predetermined telescoped positions to more extended telescoped positions, a clamping means connected to, and at the outer end of, one of the members and adapted to be clamped to a hinge support foot accelerator pedal near the hinge axis so as to constrain said one member and pedal to rock together and so as to support the members in a position extending transversely of the pedal and so that the outer end of one of them can rest against the floor of an automobile at a location spaced laterally from the accelerator pedal thereof and can float slightly relative to the floor in the plane of the floor, and an auxiliary pedal carried by, and at the

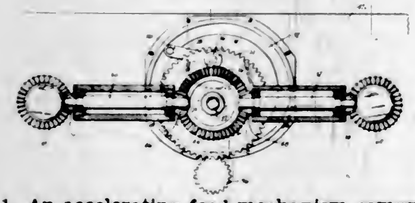
fast thereon and each meshing with said gears respectively on said countershafts, and a gear connection between said other of said operable parts and said auxiliary shaft, the gear connections between said cluster gear and each of said countershafts being of different ratios and the gear connections between each of said countershafts and said other operable part being of different ratios, means for operating said shiftable clutch-members whereby to vary the rate of movement of said operable part connected with said main shaft.

2,658,405
SELECTIVE GEAR TRANSMISSION
Adiel Y. Dodge, Rockford, Ill.
Application December 29, 1950, Serial No. 203,386
10 Claims. (Cl. 74—331)



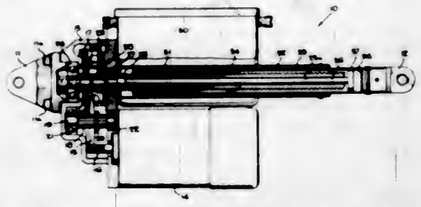
1. A transmission for connecting a driving shaft to a driven shaft comprising a pair of countershafts parallel to and spaced from the driven shaft, a plurality of pairs of gears on the driven shaft and the countershafts providing different gear ratios, means for selectively making the pairs of gears effective to drive the driven shaft, an input gear connectable to each of the countershafts, said input gears being of different sizes, coaxial driving gears meshing with the input gears respectively, an additional input gear rotatable on the countershaft to which the smaller input gear is connected and meshing with the driving gear which meshes with the larger input gear, a clutch for connecting the additional input gear to the shaft on which it is mounted, and clutches for selectively connecting the driving gears to the driving shaft.

2,658,406
VARIABLE SPEED FEED MECHANISM
John Gibson McIlvain, Jr., East Caln Township, Chester County, Pa.
Application May 4, 1951, Serial No. 224,598
9 Claims. (Cl. 74—394)



1. An accelerating feed mechanism comprising a rotatable input member, a rotatable output member coaxial therewith, a sun gear on one of said members, a planet gear sector carried by the other member and meshing with the sun gear, an arm extending from said gear sector for oscillating the same, a cam follower carried by said arm, and a stationary cam track receiving said cam follower and surrounding the axis of said rotatable members, said cam track being so shaped as to oscillate the sector during revolution of the same and to thereby introduce accelerating and decelerating components into the drive from one of said members to the other.

2,658,407
NONJAMMING STOP FOR LINEAR ACTUATORS
James E. Chapman, Los Angeles, and Lloyd D. Bevan, Van Nuys, Calif., assignors to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application June 3, 1949, Serial No. 97,054
12 Claims. (Cl. 74—424.8)



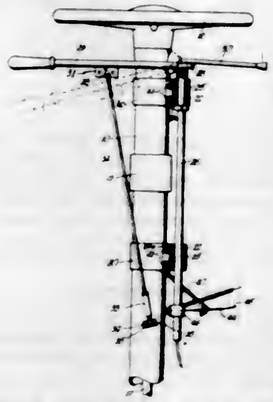
1. A non-jamming stop for members movable rotatively and translationally of each other to one limit of movement thereof, comprising: a first stress member secured to one of said movable members; a second stress member secured to the other of said movable members; friction surfaces on said stress members, at least one of said stress members being adapted to convert at least a portion of the kinetic energy of a jam to the potential energy of a longitudinal and torsional stress in one of said stress members upon frictional engagement of said surfaces; and means for imparting rotative movement to one of said movable members.

2,658,408
ELECTRICAL CONTROL MEANS FOR CHANGE-SPEED GEARING
Albert Arthur Miller, Coventry, England, assignor to M. & W. Patents Limited, Coventry, England
Application May 31, 1951, Serial No. 229,114
Claims priority, application Great Britain June 5, 1950
21 Claims. (Cl. 74—472)



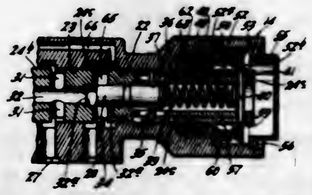
1. Change speed gearing having electrical control means comprising, in combination, two first circuits controlled by contact making members, means adapted to be controlled by a speed sensitive device driven from the input side of the speed gearing for actuating said contact making members to control said circuits alternatively, stepwise actuatable means controlled by one of said first circuits for effecting engagement of a next higher gear when actuated and controlled by the other of said first circuits for effecting engagement of a next lower gear when actuated, a manually operable selection switch means controlling said first circuits and having a plurality of positions, further circuits controlled by said selection switch means, and electrical means for controlling engagement of different gear ratios in said further circuits, whereby gear changing is effected either automatically or by manual selection according to the position of said selection switch means.

2,658,409
CONTROL MECHANISM FOR VEHICLES
Harry W. Hughes, River Forest, Ill.
Application August 12, 1952, Serial No. 303,867
3 Claims. (Cl. 74—484)



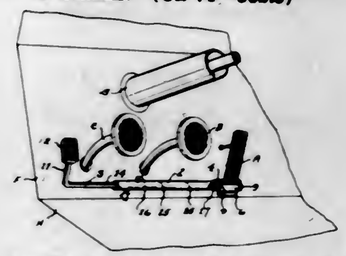
1. In combination with a steering column and the automatically movable gear selecting and shifting means of a motor vehicle; a shaft journalled adjacent and substantially parallel to said steering column; a handle having one end pivoted to said shaft and extending transversely; an arm mounted on the lower end of said shaft; a spring connecting said arm to a stationary portion of vehicle body; a slidable cable connected to said arm and normally connected to the gas control means of the vehicle; a metal link pivotally connected at one end thereof to an intermediate portion of said handle; a clamp mountable on the brake pedal; and an adjustable connecting member, including a ball joint, pivotally connecting said link and said clamp whereby manual movement of said handle toward or away from said brake pedal will be transmitted to move said brake pedal.

2,658,410
RELEASABLE DETENT MECHANISM
Carlos B. Livers, North Hollywood, Calif., assignor to Bendix Aviation Corporation, North Hollywood, Calif., a corporation of Delaware
Original application October 31, 1949, Serial No. 124,711. Divided and this application April 16, 1951, Serial No. 221,271
1 Claim. (Cl. 74—527)



In combination with a pair of inner and outer telescoping members relatively movable past each other, a detent mechanism for releasably retaining said members in a predetermined relative position comprising: a pair of coaxial cylindrical elements of the same external diameter on one of said members movable as a unit therewith and relatively movable apart from each other to form a recess therebetween and together into abutting relation to eliminate said recess; a spring detent on said other member movable therewith past said one member and engageable with said recess when said elements are apart and said members are in said predetermined position; and means for moving said elements together to eliminate said recess and thereby eject said detent therefrom, to reduce the retaining effect of said detent mechanism on said members.

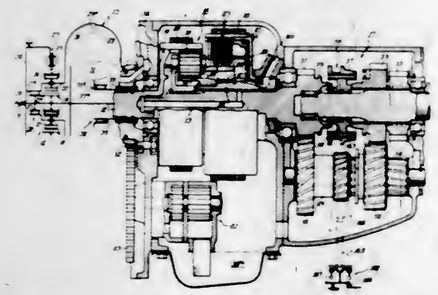
2,658,411
AUXILIARY FOOT ACCELERATOR DEVICE
Carl A. Eversman, Lorain, Ohio
Application October 26, 1951, Serial No. 253,310
5 Claims. (Cl. 74—562.5)



1. An auxiliary foot accelerator for the purposes described and comprising an elongated tubular member having its axial passage circular in cross section, an elongated extension member having a portion telescopically accommodated in said passage for free movement endwise thereof in opposite directions and for rotation about the axis of the passage relative to the tubular member and having a portion extending outwardly endwise of the passage beyond one end of the tubular member, said extension member having on its telescopically accommodated portion a shoulder which extends chordally of the passage and is elongated endwise of the extension member, said tubular member having a threaded opening which extends through the wall of the tubular member, a screw in threaded engagement with the threads of the opening and having its inner end in the passage and engageable by said shoulder in predetermined telescoped positions of the members for constraining the members to rotate together in one direction about the axis of the tubular member and disengageable from said shoulder by relative rotation of the members in the opposite direction, said screw being positioned endwise of said tubular member so that its inner end is out of the path of the shoulder when the members are moved relatively endwise from said predetermined telescoped positions to more extended telescoped positions, a clamping means connected to, and at the outer end of, one of the members and adapted to be clamped to a hinge support foot accelerator pedal near the hinge axis so as to constrain said one member and pedal to rock together and so as to support the members in a position extending transversely of the pedal and so that the outer end of one of them can rest against the floor of an automobile at a location spaced laterally from the accelerator pedal thereof and can float slightly relative to the floor in the plane of the floor, and an auxiliary pedal carried by, and at the

outer end of, the other of said members and having a foot engageable face positioned to be engaged and pressed flatwise for rocking the said members together in said one direction, said shoulder and inner end of the screw being positioned relative to each other circumferentially of the passage so that the inner end of the screw engages said shoulder in offset relation to the bisector of the shoulder when the accelerator pedal is in normal undepressed rotated position about its axis and the auxiliary pedal is in a rotated position such that it can be depressed and thereby rotate the members sufficiently to fully depress the accelerator pedal from the normal undepressed position of the foot accelerator pedal.

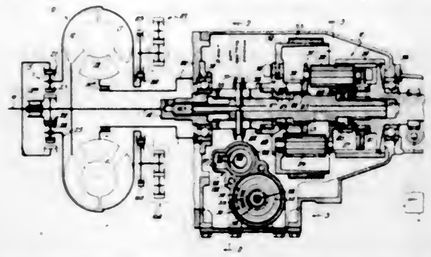
2,658,412
TRANSMISSION
Donald W. Kelbel, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 13, 1948, Serial No. 20,728
9 Claims. (Cl. 74—645)



1. In a transmission for an automotive vehicle, the combination of a drive shaft, a driven shaft, a hydrodynamic coupling device driven by said drive shaft and having a driven element or rotor, a positive type engaging means for completing a power train between said rotor and said driven shaft, a brake for said rotor for retarding rotation of the rotor to allow a facile engagement of said positive type engaging means, a control adapted to be actuated by the vehicle operator for causing engagement of said positive type engaging means, said control being effective to cause engagement of the brake preliminary to a shifting movement of the control for engaging the positive engagement means, an accelerator for the vehicle, and means controlled by said accelerator for assuring disengagement of said brake when said accelerator is moved from a closed throttle position toward an open throttle position.

2,658,413
TRANSMISSION
Palmer Orr and Clifford L. Swift, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 22, 1947, Serial No. 793,098
16 Claims. (Cl. 74—645)

1. In a transmission for an automobile vehicle, the combination of an accelerator for the vehicle, a drive shaft, a driven shaft, means for completing a power train between said shafts and including a gear set and a friction brake, spring means for engaging said brake, fluid pressure responsive means for disengaging said brake, a source of fluid pressure, a valve between said fluid pressure source and said fluid pressure responsive means, and linkage for connecting said valve and said accelerator and including a lever connected with said accelerator and a lever connected with said valve, said levers being connected by a pin and slot connection, said accelerator being operative through said linkage for moving said valve

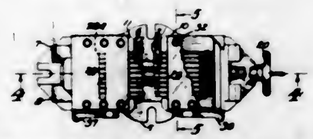


from one operative position connecting said fluid pressure source and said fluid pressure responsive means to another position disconnecting said source and means and draining the fluid pressure responsive means to engage said friction brake when the accelerator is moved from a closed throttle position toward an open throttle position.

2,658,414
PROCESS FOR PRODUCING SPINNERETS FOR THE PRODUCTION OF THREADS
Claude Issartial, St-Rambert-l'Ile-Barbe, France, assignor to Societe Rhodiaceta, Paris, France, a French company
No Drawing. Application March 31, 1953, Serial No. 346,039
5 Claims. (Cl. 76—107)

1. A process for producing spinnerets for the production of threads, films, fibres, ribbons and the like shaped products from artificial or synthetic materials and of other articles provided with holes of a small dimension, comprising in combination providing the holes, polishing the surface of the article to which the holes open by means of a flexible polishing member, and injecting through the entrance opening of the holes a fluid, at the same time when said polishing is carried out and effecting injecting of said fluid under a pressure which is slightly superior to the force or pressure which tends to cause part of the polishing member to enter the interior of the holes.

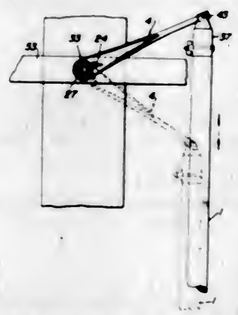
2,658,415
CLAMPING DEVICE FOR IRREGULARLY SHAPED WORKPIECES
Nathan Barowsky, Holyoke, Mass., assignor to American Machinery Company, Willimansett, Mass.
Application April 13, 1951, Serial No. 220,921
4 Claims. (Cl. 81—33)



1. A clamping device comprising a pair of opposed jaws, one jaw being fixed and the other jaw being movable toward and away from the fixed jaw, threaded means operable to effect the movement of said movable jaw and hold it positively in any set position, at least one jaw being

equipped with a clamping face comprising a plurality of free-floating reciprocable segments shiftable relative to one another according to the contour of a work-piece located between the jaws, thin stationary spacing elements arranged between adjacent segments, a chamber in which the jaw segments reciprocate, the rear ends of said segments constituting the forward wall of said chamber, displaceable means normally partially filling said chamber, said means flowing freely throughout said chamber as one or more segments move rearwardly into said chamber until further displacement is terminated by the diminution of the volume of the chamber due to the rearward movement of the segment or segments, the displaceable means then holding all the segments in their set position with the work piece firmly clamped between them, each of said segments having a recess in its bottom surface, said recesses being equidistant from a common end of the segments, and a cam common to all the segments being positioned in said recesses and having an axially extending recess which provides for the relative shifting of the segments, said cam being operable to align the clamping faces of the segments.

2,658,416
RATCHET WRENCH DEVICE FOR USE ON NUTS OR BOLTS IN NORMALLY INACCESSIBLE LOCATIONS
Abraham J. Duerksen, Bridgeport, Nebr., assignor of one-half to George A. Duerksen, Alliance, Nebr.
Application September 5, 1952, Serial No. 308,031
2 Claims. (Cl. 81—63)



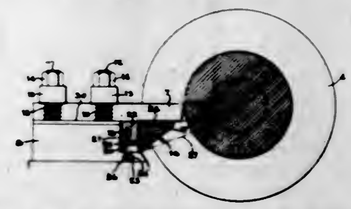
1. The combination with a pole, of a ratchet wrench unit on one end thereof including a ratchet wheel having an axial opening therein adapted to fit over a nut on a bolt projecting at one end out of the nut, the axis of said wheel being transverse to the pole, and said end of the pole having a transverse member therein on which said unit is swingable in a plane parallel with the pole at an angle thereto whereby endwise movement of the pole will oscillate said unit to turn a nut over which said opening is fitted.

2,658,417
FLYWHEEL TURNING TOOL
William G. De Kam, Detroit, Mich., assignor to Kent-Moore Organization, Inc., Detroit, Mich., a corporation of Michigan
Application June 28, 1950, Serial No. 170,783
2 Claims. (Cl. 81—90)

1. A flywheel turning tool comprising a flat elongated torque bar one end of which constitutes a handle and the opposite end of which is bent at an angle normal to the plane of the bar and constitutes the outer part of an outer jaw, a flat plate secured in overlapping relationship to such end of the bar and being disposed in a plane parallel to the plane of such end of the bar, said plate having an outer end portion of the same width as the bar and bent to provide a part which juxtaposes the bent end of the bar and constitutes therewith the complete outer jaw, said plate having an intermediate portion spaced inwardly from the outer end portion and of substantially twice the width of the outer end portion and projecting beyond one side of the bar and having a part bent out of the plane of the plate normal to the plane thereof and to the plane of the bar and generally substantially parallel to the outer jaw but at a slight angle thereto and constituting an inner jaw, said inner jaw being offset the bar on one side thereof but disposed immediately adjacent thereto.



2,658,418
SUPPORT FOR CUTTING TOOLS
William G. Hoelscher, Cincinnati, Ohio, assignor to The American Tool Works Co., Cincinnati, Ohio
Application March 21, 1950, Serial No. 151,022
2 Claims. (Cl. 82—36)



1. A structure for mounting and reenforcing the cutting tool of a lathe or the like with respect to a workpiece comprising, a tool holder block adapted to mount a cutting tool with a portion of the tool projected beyond the holder toward the workpiece, a buttress member disposed against the projected portion of the cutting tool, a clamp adapted to secure a portion of the cutting tool upon the upper surface of the holder block, the holder block having a recess beneath the projected portion of the cutting tool and having a clamping slot extending substantially at right angles to the cutting tool, a second clamp engaged in the said slot and connected to the buttress member and adapted to secure the buttress member to the holder, the said second clamp be-

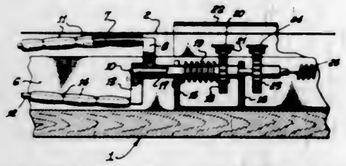
ing constructed and arranged to slidably engage the slot and thereby provide adjustment of the buttress member laterally with respect to the projected portion of the cutting tool.

2,658,419

STRINGED MUSICAL INSTRUMENT HAVING ANGULARLY ADJUSTABLE STRING CONTACTING MECHANISMS

John W. McBride, Burbank, Calif., assignor to Bantar, Incorporated, Burbank, Calif., a corporation of California

Application September 24, 1951, Serial No. 248,051
5 Claims. (Cl. 84—315)



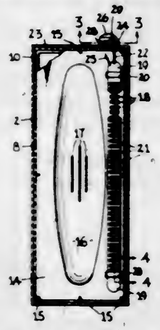
1. In a musical instrument having a tensioned string: a helical-like member having an axis of rotation substantially parallel to the string; a plurality of rolling string contacting elements carried by the member for movement therewith about said axis of rotation, said helical-like member also mounting said elements for free rotation about their own axes; and means for angularly adjusting the member about its axis.

2,658,420

SOUND CHAMBER FOR ACCORDION PICKUP

Wilson W. Pompili, Cleveland, Ohio

Application April 18, 1950, Serial No. 156,635
5 Claims. (Cl. 84—376)



1. A device for use in an accordion, comprising the combination of a panel interposed between the treble section and the bellows of said accordion, a concave arcuate acoustic shell provided on said panel, said panel having air openings therein, a valve member slidably secured to said panel in operative relationship to said air openings, and valve actuating means connected to said valve member.

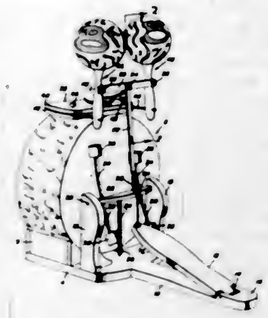
2,658,421

BASS DRUM WITH RHYTHM BEATERS AND PEDAL

Everett H. W. Clayton, Long Island City, N. Y.

Application June 8, 1951, Serial No. 230,473
2 Claims. (Cl. 84—422)

1. A bass drum construction of the class described comprising a base, a bass drum mounted on said base, a foot pedal pivotally mounted on said base, a horizontally disposed rocker shaft mounted for oscillation on said base, a coil spring attached at one end to an intermediate portion of said rocker shaft and anchored at its opposite end on said base, an operating connection between the free end of said pedal and the intermediate portion of said rocker shaft, a pair of depending spring arms attached to said rocker shaft and provided with beaters adapted to strike the head of said drum, a pair of upper spring



arms attached to and rising above said rocker shaft and provided with beaters adapted to alternately strike the head of said drum, a resonance block fixedly mounted atop said drum, a flexibly resilient arm having a beater adapted to strike said resonance block, and an operating connection between said arm and rocker shaft, said operating connection embodying a T-shaped member having spring connection with said rocker shaft, and a maraca mounted on said T-shaped member.

2,658,422

OPTICAL SYSTEM FOR BINOCULAR VIEWING DEVICES

John R. Miles, Des Plaines, Ill., assignor to Chicago Aerial Survey Company, Chicago, Ill., a corporation of Illinois

Application September 10, 1949, Serial No. 114,965
1 Claim. (Cl. 88—39)



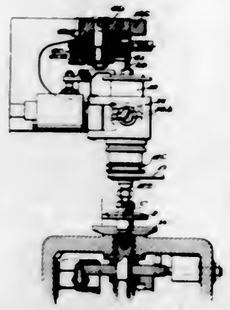
A binocular optical system for use in binocular viewing devices such as binocular periscopes or the like, comprising a single entrance lens, a single eye lens unit, a partially transmitting plane reflector disposed on the principal optical axis of said system at an angle of approximately 45° to said axis, a substantially non-transmitting plane reflector disposed adjacent to said partially transmitting reflector, tilted at a small angle thereto so that the optical axis reflected, firstly, from said partially transmitting reflector, and secondly, from said substantially non-transmitting reflector, passes through the equavalent center of said single eye lens unit, said entrance lens being adapted to collimate the light striking the said two plane reflectors, and two lenses of equal focal length arranged adjacent to said two plane reflectors between said two plane reflectors and said single eye lens unit, the focal length of said two equal focal length lenses being equal substantially to their common distance from said single eye lens unit.

2,658,423

CUTTER SPINDLE AND FEED MECHANISM THEREFOR

Robert J. Stuart, Waukegan, Ill., and Allen D. Gunderson, Racine, Wis., assignors to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin

Original application February 16, 1948, Serial No. 8,496. Divided and this application May 21, 1951, Serial No. 227,494
2 Claims. (Cl. 90—14)



1. In combination; a cutter spindle supporting structure mounted for lateral swinging over a work piece; said supporting structure including a link member pivotally mounted at its inner end and provided at its outer end with spaced, substantially parallel arms; a cutter spindle unit mounted in and disposed transversely through one of said arms with one end of said spindle unit positioned intermediate said arms in the space therebetween and with the opposite, outer end thereof adapted to mount a cutting tool; said cutter spindle unit being also mounted for movements axially toward and from a work piece; a feed cam mounted in position at the inner side of the other of said arms for rotation about an axis parallel with the axis of said spindle unit; said feed cam being provided with an annular cam surface therearound in camming engagement with the end of said spindle unit positioned between said arms for progressively feeding said spindle unit toward a work piece during lateral movements of said unit with said supporting structure; feed cam rotating mechanism mounted on and movable as a unit with said link member in driving connection with said feed cam; and a motor in driving connection with said cam rotating mechanism for effecting power feed of said cutter spindle unit.

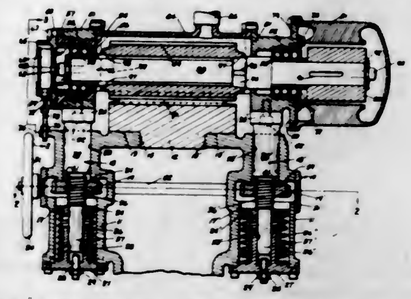
2,658,424

MILLING MACHINE

William F. Huck, Forest Hills, N. Y., assignor to Huck Co., New York, N. Y., a partnership composed of William F. Huck, Alexander J. Albrecht, and Stephan S. Wekeman

Application January 25, 1949, Serial No. 72,631
7 Claims. (Cl. 90—16)

1. In a milling machine especially adapted for machining the reverse side of a flat printing plate, a frame, a pair of jack stems vertically movable with respect to said frame, a milling cutter rotatably mounted on the upper end of said jack stems, a threaded portion on each of said jack stems, a worm gear threaded on each of said threaded portions, a worm for driving each of said worm gears, a common shaft for simultaneously driving both of said worms, and a pin carried by said frame and arranged to engage one of said worms, whereby, said worm can



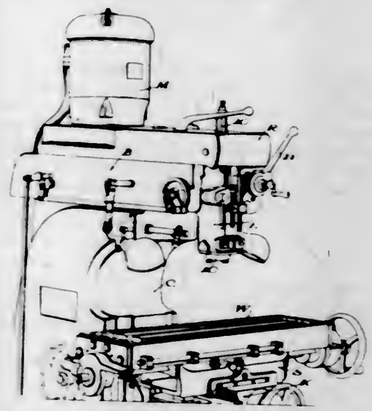
be held from turning while said other worm is adjustably turned.

2,658,425

ADJUSTABLE RAM FOR MACHINE TOOLS

Theodore F. Eserkaln, Wauwatosa, and Freddy Steinbrecker, Racine, Wis., assignors to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin

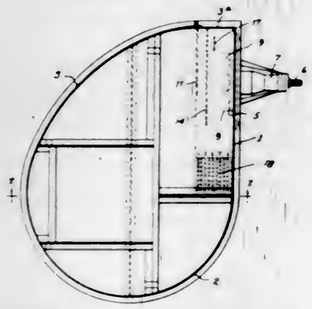
Original application December 17, 1946, Serial No. 716,842, now Patent No. 2,526,547, dated October 17, 1950. Divided and this application April 21, 1950, Serial No. 157,324
2 Claims. (Cl. 90—16)



1. In combination, a column structure having a horizontal support surface on and extended longitudinally along the upper side thereof; a ram slidably mounted on said support surface for horizontal movements thereon in either direction along a straight line path; said ram including a lower wall providing a T-slot therein extended longitudinally therealong and opening therethrough to form a key-way defined by opposite side walls having their inner facing surfaces in precise parallelism; separate key members in said horizontal ram supporting surface spaced apart therealong at the upper side of said column structure; each of said key members including a key adapted to extend upwardly into the key-way in the lower wall of said ram; said keys each being formed with precisely parallel opposite side surfaces and having a width to extend into said key-way and slidably engage said surfaces with close tolerances with the opposite parallel surfaces, respectively, of said key-way defining walls; said key members being adapted to be

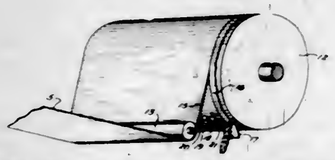
independently adjusted into fixed relative positions at which the opposite side surfaces thereof are in precise alignment, and precisely parallel with the straight line path of movement of said ram; vertically disposed bolts mounted in said column structure and being extended upwardly through said key members, respectively, and said key-way; and a clamping plate mounted on the upper end end of each bolt within said T-slot for clamping engagement with the inner side of the lower wall of said ram.

2,658,426
MACHINE FOR PULPING PAPER STOCK
Edwin Cowles, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J., a corporation of New Jersey
Application July 1, 1952, Serial No. 296,680
5 Claims. (Cl. 92—26)



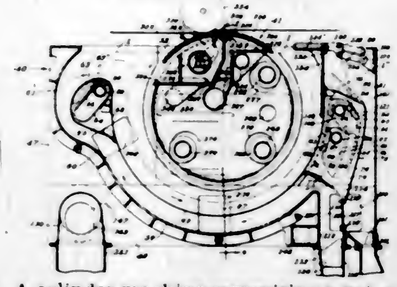
1. Apparatus for treating paper stock, comprising, in combination, a tank having a flat front wall, and having a curved wall section joining one end of said flat wall and tangent thereto, said curved wall section joining another wall section curved on a radius greater than the radius of the first section, said second section joining the other end of said flat wall, the radius of curvature of said first wall section being less than the length of said flat front wall, and an impeller mounted for rotation on a horizontal axis extending through said front wall at right angles thereto and discharging stock outwardly from the periphery in directions substantially parallel to said front wall.

2,658,427
METHOD OF REMOVING DRY PAPER TRIM
Henry Ver Doot, Jr., Green Bay, Wis., assignor to Fort Howard Paper Company, Green Bay, Wis., a corporation of Wisconsin
Application August 18, 1949, Serial No. 111,040
4 Claims. (Cl. 92—38)



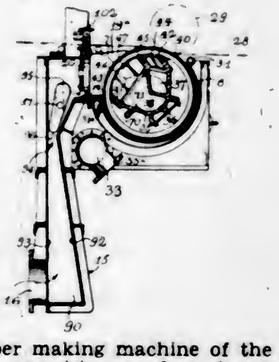
1. The method of controlling the movement of a strip of dry tissue paper trim which is being scraped from a rotating roll, comprising wetting said dry strip of trim at approximately the point where it is being scraped from the roll to increase the weight of the trim and neutralize any static electrical charge therein.

2,658,428
ADJUSTABLE CYLINDER PAPERMAKING MACHINE
Philip H. Goldsmith, Wilmington, Del., assignor to The Pusey & Jones Corporation, Wilmington, Del., a corporation of Delaware
Original application February 3, 1945, Serial No. 575,989. Divided and this application November 17, 1949, Serial No. 127,900
19 Claims. (Cl. 92—43)



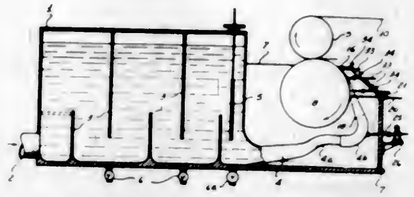
1. A cylinder machine comprising a vat, a mold journalled for rotation on a horizontal axis in the vat, a fixed outer circle in the vat, a back head extending transversely of and adjacent one end of the vat, a similarly extending front head adjacent the other end of the vat, an inner circle of uniformly flexible sheet metal having its ends secured to and supported exclusively by said heads, and means for adjusting at least one of said heads and the adjacent end of the inner circle on a substantially vertical path.

2,658,429
PAPERBOARD FORMING MACHINE
Bernard A. Malkin, Lachine, Quebec, Canada
Application January 7, 1950, Serial No. 137,375
8 Claims. (Cl. 92—43)



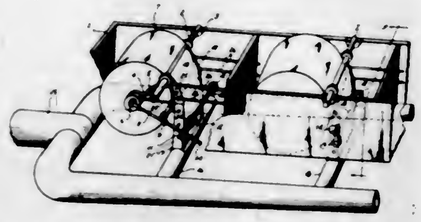
1. A paper making machine of the character described comprising a foraminous cylinder-mold, a horizontal apron having its inner edge extending horizontally along and positioned close to the ascending side of the cylinder-mold so that stock delivered over said apron to the cylinder-mold is formed into a web or sheet on the portion of the cylinder-mold which is travelling upwardly from said apron, pond plates extending upwardly from said apron and serving to laterally confine the stream of stock delivered to the cylinder-mold over said apron and a suction box arranged in the cylinder-mold so that the suction area or areas of said suction box face toward and underlie that portion of the cylinder-mold which is travelling upwardly from the apron.

2,658,430
PAPERMAKING MACHINE
Samuel S. Stevens, Plattsburg, N. Y.
Application January 28, 1950, Serial No. 141,090
14 Claims. (Cl. 92—43)



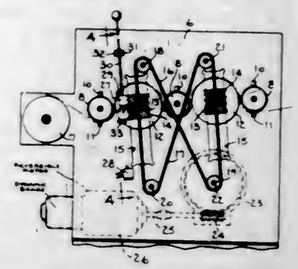
1. A paper making machine comprising: a rotatable mold roll, a stock feed duct entirely closed on all four sides by rigid walls with the wall remote from the roll having an extension permanently rigid with the duct and projecting uninterruptedly from one end of the duct to a slice point contiguous to the surface of the roll and there secured to a pivot to mount said duct and its permanently rigid extension for conjoint movement along an arcuate path about the axis of said pivot, a throat plate one end of which is attached to a second pivot contiguous to the surface of the roll and angularly spaced along the surface of the roll from the slice point to form between said pivots a stock outlet mouth and the other end of the throat plate being hinged to the adjacent end of the feed duct, there being adjustable closures along the lateral edges of said extension and throat plate, and means for bodily moving the duct and its extension along an arcuate path about the axis of the pivot at the slice point to vary the cross sectional area of such duct in the region of the throat plate.

2,658,431
PAPERMAKING MACHINE
Samuel S. Stevens, Plattsburg, N. Y.
Application December 5, 1950, Serial No. 199,163
5 Claims. (Cl. 92—43)



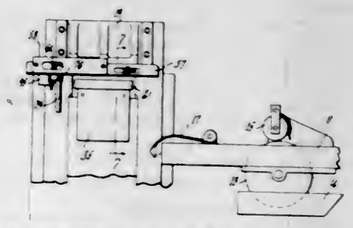
1. A paper making machine comprising: a rotatable mold roll mounted for bodily movement along an arcuate path about a pivot parallel to its axis of rotation and positioned substantially at its circumference, in combination with a stock delivery duct with its discharge mouth juxtaposed with the circumference of the roll, said duct having a stationary outer wall with its slice point at the axis of arcuate movement of the mold roll, and said duct also having an inner wall the foremost portion of which constitutes a throat plate with its forward edge in substantial contact with the mold roll and its rear edge connected to a fixed pivot, and means for imparting arcuate movement to the roll.

2,658,432
PAPER DECURLING APPARATUS
John R. Baumgartner, Milwaukee, Wis.
Application February 1, 1951, Serial No. 208,969
2 Claims. (Cl. 92—70)



1. In an apparatus for removing the curl from a supply roll of paper, the combination of spaced ironers having rounded surfaces against which the web of paper fed from said supply roll is drawn, a roll over which the web is looped between said ironers to bring the web into contact with said ironers to form a reverse curl in the web as it passes over said ironers from that of the initial curl, a movable support for said roll to move said roll to bring the web from a smaller web area-contacting position with said ironers during the initial feed of the paper from said supply roll to a larger web area-contacting position with said ironers as the amount of the initial curl in the supply roll becomes larger, means for moving said support toward said ironers to increase the web contacting area of said ironers and for moving said support away from said ironers to free the web from contact therewith including a reversible electric motor, a source of current for said motor, and control means for said current including a limit switch carried by said support, and adjustable means for operating said limit switch to stop the motor and the movement of said support relative to said ironers.

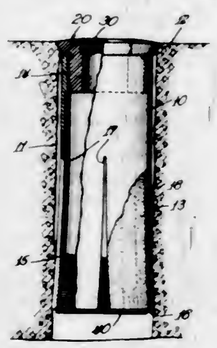
2,658,433
BOX SETTING-UP MACHINE
Clarence Lloyd Claff and Carl A. Moeller, Randolph, Mass., assignors to Norfolk Paper Company, Inc., Randolph, Mass., a corporation of Massachusetts
Application February 26, 1947, Serial No. 731,064
2 Claims. (Cl. 93—36.3)



1. In a box making machine having gluing and folding mechanism for operating on the end formations of a box blank during advance of the blank from right to left by the operator, and pressing mechanism for sealing the box end formation upon presentation of the box to the pressing mechanism in a direction away from the operator and at an angle to the direction of box advance through the gluing and folding mechanism,

said pressing mechanism comprising relatively movable pressure members between which the folded and adhesively coated end formation of the box is inserted when the members are in open relation, power means for causing one of said members gradually to move toward the other, a switch to set in motion said power means, and a switch actuating member adjustably positioned at the side of the pressing mechanism away from the gluing and folding mechanism for engagement by the outer portion of the hand or forearm of the operator in advancing the box end into the space between the pressure members, the switch actuating member being mounted for movement laterally of the direction of insertion of the box in the press and forwardly of said press for actuation by the operator in advance of full insertion of the box end between the pressure members to initiate closing movement of said pressure members before the box end reaches final pressing position.

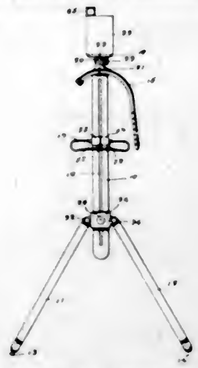
2,658,434
GAS LEAKAGE TEST BOX
Donald B. Miller, Wheaton, Ill.
Application June 21, 1951, Serial No. 232,797
3 Claims. (Cl. 94—34)



1. In a gas leak test box of the class described, a cylindrical tubular body member, an anti-corrosive coating covering the exterior of said body member, expansible plug means insertable within the lower interior of said body for expanding the lower sidewalls thereof radially outward, a plurality of longitudinal slotted openings in the lower side walls of said body member to accommodate said expansible actuation of said plug, a cap member threadingly connected to the upper end of said body member, an outwardly flared conical flange element, associated with said cap member, extending radially outward of the sidewalls of said body, said flange cooperating with said expansible plug to create a wedging holding action for purposes of maintaining said body fixed within a cylindrical opening, and a removable test plug means within said cap providing entry to the interior of said body member.

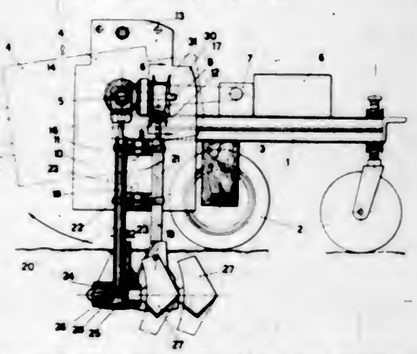
2,658,435
CAMERA BELT SUPPORT
Elmer Sarvoy, Miami, Fla.
Application August 20, 1951, Serial No. 242,594
2 Claims. (Cl. 95—86)

1. A camera support comprising a vertically disposed post, a collar slidably mounted on the post, arms with belt receiving hooks on the ends pivotally mounted on the collar, a strap attached to the upper part of the post, a transversely positioned rest adjustably mounted on the post



and a camera mounting plate positioned on the upper end of the post.

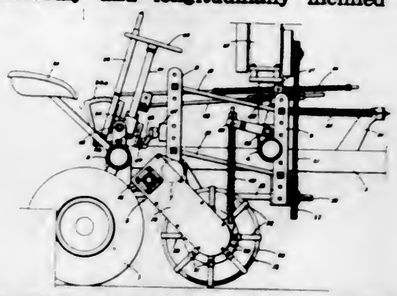
2,658,436
ROTARY PLOW
Ubaldo Gatti, Leghorn, Italy
Application July 16, 1947, Serial No. 761,383
Claims priority, application Italy August 1, 1946
3 Claims. (Cl. 97—38)



1. A machine for the working of the soil, of the type wherein a plurality of tools are arranged on several discrete transverse planes and each rotates around an horizontal axis parallel to the direction of advance of the machine, said machine including a single transverse shaft for transmission of motion to said plurality of tools, a plurality of bevel gears located upon said transverse shaft, corresponding similar gears meshing with certain of said bevel gears for the transmission of motion to said tools on one of said transverse planes, an assembly including a double bevel gear meshing with another of said bevel gears on said transverse shaft for the transmission of the motion to the tools arranged on a different transverse plane and a frame, bearing said tools and pivotally mounted on said transverse shaft, in order to transmit the motion to the tools, in any position assumed by the frame.

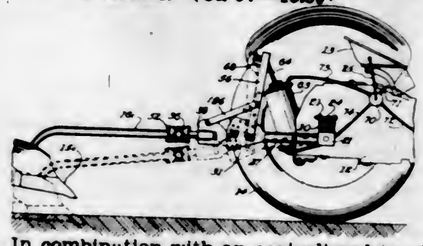
2,658,437
CULTIVATING IMPLEMENT
Byron M. Peters, Lathrop, Calif.
Application July 25, 1949, Serial No. 106,699
4 Claims. (Cl. 97—40)

2. A cultivating implement comprising a frame supported above the ground for travel along a crop row, a transverse mounting beam, a pair of transversely spaced posts fixed on said mounting beam, another pair of transversely spaced posts fixed on the main frame in generally longitudinally alined relation to corresponding ones of said first named pair of posts, vertically spaced parallel links extending between said corresponding posts, universal connections securing the links at the ends to adjacent posts, a driven cross shaft supported by a pair of transversely spaced downwardly and longitudinally inclined arms



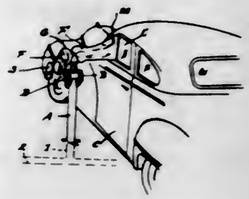
from said mounting beam, rotary cultivating means on the cross shaft, a longitudinally movable control rod, rod actuated connections with the unitary assembly of said beam, shaft, and cultivating means operative to vertically adjust said assembly, a laterally movable control link operative to laterally adjust said unitary assembly, and a common manually actuated control device, to which said rod and link connect, operative to reversibly move the same selectively and independently.

2,658,438
TRACTOR MOUNTING FOR AGRICULTURAL IMPLEMENTS
James H. Seng, Salina, Kans.
Application July 11, 1950, Serial No. 173,028
2 Claims. (Cl. 97—46.59)



1. In combination with an agricultural tractor having a rear axle, mechanism for mounting an agricultural implement on the tractor comprising elongated links each having at one end a sector shaped socket formation, brackets pivotally connected one to each of said links at the other ends thereof and connecting said links to said tractor axle, an implement carrying tool bar disposed substantially parallel to said tractor rear axle and spaced from said socket formations, swivel connectors connecting said socket to said tool bar and including parts relatively movable about axes substantially parallel to the longitudinal center lines of the corresponding links, a hydraulic cylinder mounted at one end on said tractor in upwardly extending position and having a piston rod projecting from its upper end, and means connecting said links to said piston rod for up and down movement of said links and said tool bar in response to movement of said piston rod inwardly or outwardly of said cylinder.

2,658,439
AIR CONDITIONING OF PARKED VEHICLES
Charles E. Royal, Lockhart, Tex.
Application May 20, 1948, Serial No. 28,114
4 Claims. (Cl. 98—2)



1. The combination comprising, a vehicle parking area, a system of conduits for conveying an air conditioning medium, said system including hollow posts extending vertically above the level of the parking area, a flexible conduit carried by the post and forming a continuation thereof, said flexible conduit having an open end attachable to a vehicle to close an open window opening thereof, a valve normally closing communication between the post and the flexible conduit, a rotatable reel operatively connected to the valve for moving the valve to an open position, resilient means holding the valve in a closed position, a cable connected to said reel for rotation thereof and to the flexible conduit, said cable constituting means by which the flexible conduit can be manually moved for attachment to the vehicle, and the movement of said flexible conduit for attachment to the vehicle resulting in the rotation of said reel and the opening of said valve.

2,658,440
MIXING AND DIFFUSING DEVICE
Adolf H. Lange, Hyattsville, Md., assignor to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware
Application December 16, 1950, Serial No. 201,221
9 Claims. (Cl. 98—40)

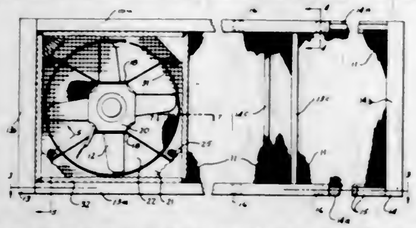


1. A device to be mounted in the outlet end portion of a fluid supply duct to effect deflection and diffusion of fluid delivered from the duct, said device comprising a rectangular frame including side and end rails, a plurality of parallel spaced apart fluid deflecting members disposed in and extending transversely across said frame, and means mounting said members upon the side rails of said frame for pivotal adjustments relative to each other and also for bodily shiftable adjustments of all portions of the same into various different spaced relationships to each other.

2,658,441
ROOM VENTILATING DEVICE
James B. Johnson, Urbana, Ohio, assignor to The W. B. Marvin Manufacturing Company, Urbana, Ohio, a corporation of Ohio
Application November 30, 1949, Serial No. 130,252
8 Claims. (Cl. 98—94)

1. In a room ventilating device, a frame section comprising laterally spaced channel bars, adjacent side walls of the two bars having oppositely extending flanges, a supporting member between said bars having at its lateral edges

hook-shape parts extending about the flanges of the respective channel bars, a section of screen material having edge portions extending into the respective channel bars and engaging the hook-



shape portions of the supporting member, means within said channel bars for firmly securing said screen material and said supporting member to said channel bars, and a motor operated fan mounted on said supporting member.

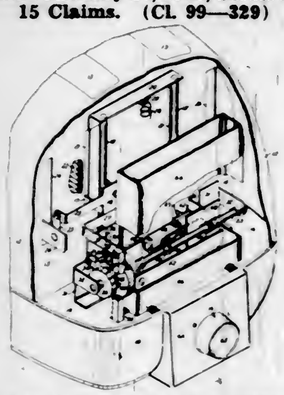
2,658,442

ELECTRIC TOASTER

George A. Brace, Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application January 10, 1948, Serial No. 1,533

15 Claims. (Cl. 99—329)



1. In a toaster, main heating means for performing the toasting function, a thermal timer for timing the duration of successive toasting intervals, a heater for said timer, means for energizing said heater and said main heating means to initiate a toasting interval, said timer including a thermally responsive element of the laterally deflecting type operable upon being heated to terminate the toasting intervals, said heater being mounted in spaced heat radiating relationship to said thermally responsive element and for movement lengthwise thereof and means for moving said heater along the length of said thermally responsive element to expose more or less of the length of said thermally responsive element to the heat of said heater for varying the duration of toasting intervals.

2,658,443

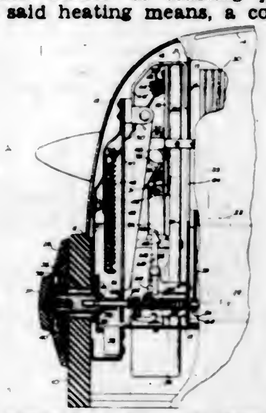
ELECTRIC TOASTER

George A. Brace, Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application December 20, 1947, Serial No. 793,011

5 Claims. (Cl. 99—329)

1. A toaster comprising a bread carrier movable from receiving to toasting position, a thermal timer for timing the duration of successive toasting intervals, heating means for said timer, said timer being of the type which times the duration of toasting intervals by the time it takes to heat said timer to a predetermined temperature, means for moving said carrier to toasting position, means for latching said carrier in toasting position, means actuated by movement of said carrier to toasting position for energizing said heating means, a cooling block



normally spring-biased away from heat exchange relationship with said timer, means actuated responsive to the heating of said timer for releasing said carrier for movement to receiving position and means actuated by said movement for moving said cooling block into heat exchange relationship with said timer.

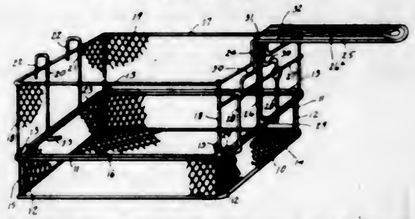
2,658,444

FOOD CONTAINER FOR DEEP FAT FRYING

William O. Wheeler, Indianapolis, Ind.

Application March 15, 1951, Serial No. 215,665

1 Claim. (Cl. 99—410)



A structure for supporting food to be cooked in an immersed position in a cooking medium comprising a relatively shallow food supporting tray having top and bottom rectangular frames, a foraminous bottom connected to said bottom frame and foraminous walls secured to the sides and ends of said top and bottom frames, a wall extension unit of foraminous material conforming in outline to that of said tray, one end wall of said unit having rigidly secured inturned hooks engageable beneath said top frame, a carrying handle extending laterally from adjacent the top of the other end wall of said unit, and hook means associated with said handle and with said other end wall of said unit swingable in and out of engagement with the adjacent end of the top frame of said tray, said means being pivotally connected to said other end of said unit and being operable from said handle.

2,658,445

ARRANGEMENT IN A SCREW PRESS FOR SQUEEZING OUT WATER

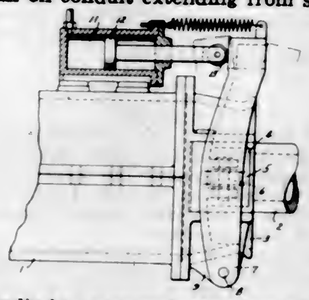
Rolf Karl Engelbrekt Wilén and Henrik Sixtus Wiklund, Helsingfors, Finland

Application October 23, 1950, Serial No. 191,545

2 Claims. (Cl. 100—50)

1. In a draining screwpress having an outlet opening, a plurality of pivotally mounted flaps

for coaction with said outlet opening, said flaps each having a curved cam surface thereon, a pivotally mounted clamp, pressure pulleys rotatably connected to said clamp in proximity to said cam surfaces on said flaps for coaction therewith, a hydraulic cylinder having a piston therein and a piston rod extending outwardly from said cylinder, said rod operatively contacting said clamp for movement thereof around its pivot, a source of oil, an oil conduit extending from said source



to said cylinder, a pump inserted in said conduit, a regulator, a press motor, said regulator being electrically connected directly with said press motor and actuatable thereby for operating said pump contingent on load on said press motor whereby upon an increased load on said press motor the pump is actuated through the regulator for moving by oil pressure in the cylinder the clamp releasing pressure on the flaps which are thereby opened by pressure of pulp in the press for relieving the motor load.

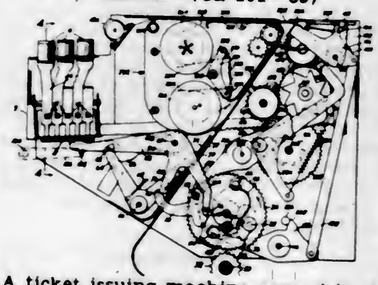
2,658,446

TICKET ISSUING MACHINE

Reuben H. Helsel, Long Island City, N. Y., assignor to General Register Corporation, Long Island City, N. Y., a corporation of New York

Original application May 1, 1945, Serial No. 591,383. Divided and this application February 12, 1948, Serial No. 7,772

3 Claims. (Cl. 101—69)



1. A ticket issuing machine comprising means for feeding a variable length of ticket strip to feed a variable number of tickets, means for printing the ticket strip including type bearing means adjacent to one side of the strip, a movable printing hammer on the other side of the strip, means urging said hammer toward the strip, said hammer being in overrunning relation with said urging means and movable in response to the action of said urging means to exert pressure against the strip on the opposite side thereof from said type bearing means and a stop for arresting movement of said urging means prior to contact of said hammer with the strip so that movement of said hammer upon a printing operation may overrun the movement of said urging means and the hammer exert a blow of only transient pressure upon the strip during printing, and driving means for the machine including means for cocking said hammer against the urging of said urging means and maintaining it cocked at the end of a cycle of operation of the machine, means for releasing said hammer for the performance of a printing operation in response to the urging of said urging means during the initial part of the next cycle of operation of the machine irrespective of the length of ticket strip to be fed, means for thereafter driving said strip feeding means and said cocking means, settable means to determine the length of ticket strip to be fed, and means for controlling the machine driving means to cause the machine to perform ticket issuing cycles beginning and ending with parts of the machine at rest.

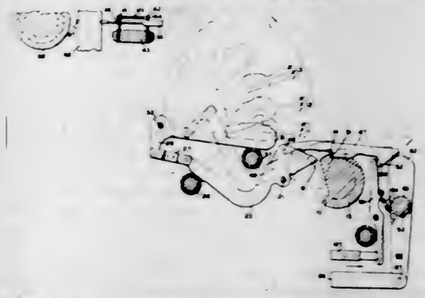
2,658,447

POSITIVE CAM OPERATED PRINT MECHANISM

Karl J. Braun, Glenbrook, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware

Application March 30, 1949, Serial No. 84,465

21 Claims. (Cl. 101—93)



1. In a power operated printing mechanism, the combination of a type bar having a plurality of type elements, a stepped member integral with said type bar and having a plurality of differential steps, each being related to one of said type elements, means for selectively positioning said type elements at a printing line, a constantly rotating power means, a rotatable bell-crank member, a hammer element related to said rotatable member and adapted for being acceleratedly actuated by the rotation thereof and further actuated by momentum to impel a type element at said printing line, a latch connected to said bell-crank and effectively engageable with said power means for thereby power rotating said bell-crank and acceleratedly actuating said hammer element, means normally preventing the engagement of said latch and said power means and trippable for permitting said engagement, a latch disengaging member cooperative with the engaged latch and selectively settable to one of a plurality of disengaging positions for predetermining the power rotation of said rotatable member, and a sensing element cooperative to sense the differential step related to said type element at said printing line and effective for altering the set disengaging position of said latch disengaging member to effect the predetermined power rotation of said bell-crank.

2,658,448

COMBINATION TAG AND TEXTILE PRINTING MACHINE

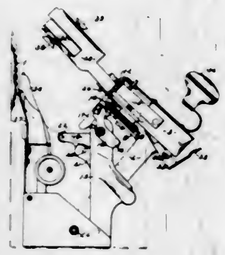
Philip N. Braun, Syracuse, N. Y., assignor to Textile Marking Machine Co. Inc., Syracuse, N. Y., a corporation of New York

Application March 11, 1950, Serial No. 149,087

4 Claims. (Cl. 101—96)

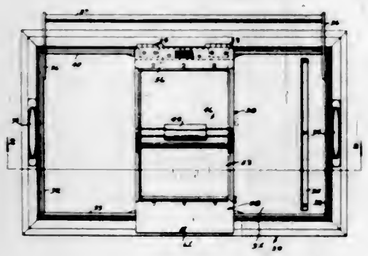
1. A tag and article printing machine of the class described, comprising a set of type wheels

operable individually to set a row of type in the printing line, a stationary frame, a platen carrier supported by the frame to have a back and forth movement and having a head provided with a platen confronting the type at the printing line, a tape supply carried by the head and trained to move across the platen, mechanism to feed the tape actuated by the carrier during the movement of the head in one direction while the platen is spaced from the type, a knife carried by the head at the exit end of the platen with respect to the tape feeding movement and operated by the head to sever the tape after each feeding movement and printing operation, and



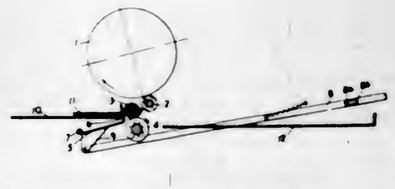
actuating mechanisms including coacting parts carried by the carrier and the frame to operate the tape feeding and the knife mechanisms during the back and forth movement of the carrier; said printing machine being characterized by a second platen movably secured to the head to shift relative thereto and shiftable into position to cover the first platen and length of tape on the first platen, and a member on the second platen engageable with the knife to shift the knife out of operative relation to the part of its actuating mechanisms on the frame and operated by the movement of the second platen into operative position.

2,658,449
COPYING APPARATUS
Gabriel Cabrera R, Caracas, Venezuela
Application August 28, 1951, Serial No. 244,035
2 Claims. (Cl. 101—131)



1. In a copying apparatus, an elongated, rectangular base, having a bottom, end and side walls, a platform positioned within said base medially between the ends thereof, coil springs supporting said platform from said bottom wall, a plate hinged at one end to the top edge of the rear side wall of the base and adapted to be disposed in overlying relation with respect to an inked sheet positioned on said platform, means for securing said plate in the said overlying relation, said plate having an opening for the exposure therethrough of the inked surface of said sheet, tracks on said plate alongside the opposite sides of said opening, a carrier movable along said tracks, a drum mounted for rotation on said carrier, a transfer medium of sheet form wound on said drum, means for securing the free end of said medium adjacent one end of said plate so that the medium is unrolled onto the inked surface of the first sheet as the carrier is moved along said tracks, and a pressure roller on said carrier acting to press said medium into contacting relation with respect to the said inked surface as it unwinds from said drum.

2,658,450
SHEET DELIVERY ARRANGEMENT FOR HECTOGRAPHIC COPYING MACHINES
Roland Brown, London, and Leonard Herbert Neville Watton, New Malden, England, assignors to Block & Anderson Limited, London, England, a British company
Application April 18, 1952, Serial No. 283,022
Claims priority, application Great Britain May 31, 1951
6 Claims. (Cl. 101—232)

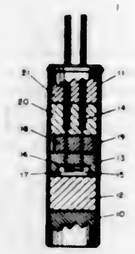


1. In a copying machine of the type comprising a rotary printing drum and a counter-pressure roller together forming a printing couple, the arrangement of sheet stacking means at the delivery side of the printing couple with means for returning the stack to the feeding side comprising a receiving table upwardly inclined from the rear side of the printing couple, a movable gate between the receiving table and the printing couple said gate having a normal position in which printed sheets are delivered singly over the gate and reverse their motion, due to the inclination of the table, to form a stack with edges abutting the gate, means for moving said gate to release the stack, and stack conveying means comprising driven rollers situated beneath the drum to impel the released stack toward the feeding side of the machine.

2,658,451
STATIC RESISTANT ELECTRIC INITIATOR
Charles F. Herne, Kingston, N. Y., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application March 6, 1953, Serial No. 340,821
14 Claims. (Cl. 102—28)

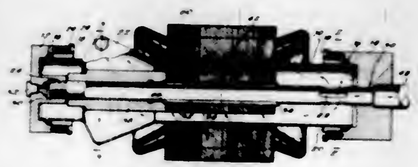
1. A static resistant electric initiator having in combination a metallic shell; an ignition assembly disposed within the shell comprising a pair of lead wires connected at their terminals by a bridge wire and an ignition composition disposed about the bridge wire; and a body of semiconductive material disposed about and in conductive relation with bared portions of both lead wires at a point within the shell outside the locus of the ignition composition, said body of semiconductive material approaching the inner wall of the shell

but being separated therefrom by a distance substantially less than that between either lead wire



and the shell in the locus of the ignition composition.

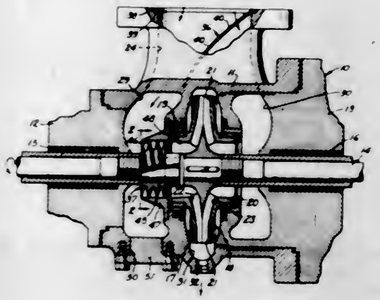
2,658,452
ELECTROMAGNETIC PUMP
Khatchik O. Donelian, Fairlawn, N. J., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application June 3, 1948, Serial No. 30,860
13 Claims. (Cl. 103—1)



1. A pump for electrically conducting liquids comprising, in combination, a tube of glass, an elongated core comprising laminated iron disks, means for mounting the core within the tube and along the axis thereof to form a partitionless annulus between the core and the inner wall of the tube, a polyphase electromagnet surrounding the tube to produce in the annulus a magnetic field rotating about the axis of the tube, a liquid inlet at one end of the tube centrally of the tube, and a peripheral liquid outlet at the other end of the tube, said outlet end being flared to a diameter greater than that of the remainder of the tube, whereby an electrically conducting liquid is admitted through said inlet, rotated in the annulus by the action of the rotating field and forced out at the periphery by centrifugal force.

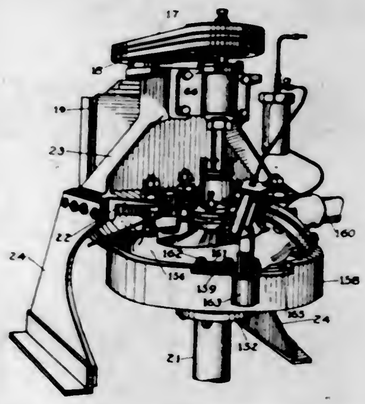
2,658,453
NONCLOGGING PUMPING DEVICE
Michael E. Walters, Huntington Park, Calif., assignor to Pacific Pumps, Inc., Huntington Park, Calif., a corporation of California
Application July 22, 1950, Serial No. 175,389
13 Claims. (Cl. 103—104)

1. In a pumping device, the combination of: a pump having a main inlet and an outlet and having two auxiliary inlets communicating with the downstream end of said main inlet; means for separating solids exceeding a predetermined size from solids of said predetermined size, or smaller, and for directing the solids exceeding said predetermined size into one of said auxiliary



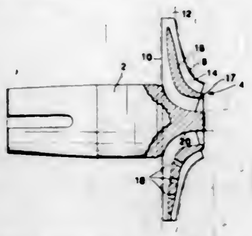
inlets and the solids of said predetermined size, or smaller, into the other of said auxiliary inlets; and means traversing said one inlet for disintegrating the solids exceeding said predetermined size.

2,658,454
GLASS-LINED PUMP
Otto W. Greene, Rochester, N. Y., assignor to The Pfaudler Company, a corporation of New York
Application May 14, 1948, Serial No. 26,981
7 Claims. (Cl. 103—111)



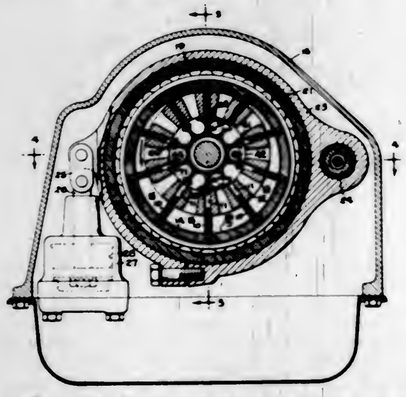
1. A pump of the character described comprising, in combination, a casing including a main casing part and cover part having a suction opening, an impeller having blades and a hub, a drive shaft extending into said hub, means including a stud extending through said drive shaft and fixed to the hub internally thereof for fixing said impeller with respect to said drive shaft, means including a plurality of adjustable supports for adjusting the main part of the casing with respect to said blades to provide a uniform clearance between the casing and the plane of rotation of the blades, and means for fixing the cover part with respect to the main casing part.

2,658,455
IMPELLER WITH CENTER INTAKE
Ludwik R. Seinfeld, New Providence Township, Union County, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a corporation of New Jersey
Application February 26, 1948, Serial No. 11,097
1 Claim. (Cl. 103—115)



A centrifugal impeller of the high speed single suction type having a central inlet comprising a hub, radially and axially extending vanes carried by the hub, and annular means radially spaced from the hub and extending along the vanes and dividing the vanes axially of the impeller and providing ribs extending between the vanes, said ribs and vanes forming channels of dissimilar length on opposite sides of said annular member, the axial extremities of said hub, vanes and annular member providing the central inlet for said impeller, said ribs having portions extending axially toward said central inlet for splitting a stream of fluid entering the impeller, each rib being provided with a plurality of passages interconnecting said channels, said passages being disposed between the vanes and being arranged in radially spaced relation to the impeller axis at successively greater distances therefrom to permit pressure equalizing flow between said channels on opposite sides of said ribs at intervals at said successively greater distances.

2,658,456
FLUID DISPLACEMENT DEVICE
Gunnar A. Wahlmark, Rockford, Ill.
Application July 29, 1948, Serial No. 41,305
19 Claims. (Cl. 103—120)



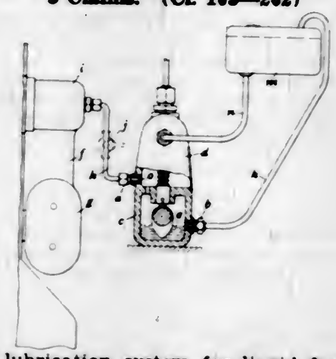
1. A fluid displacement device having, in combination, a rotor in the form of a spool having end flanges, a stud projecting into one end of the spool core and rotatably supporting the latter, an actuator ring encircling said spool and disposed between and having a running fit with the spool flanges, means supporting said ring to turn about an axis offset from said rotor axis, said rotor having angularly spaced slots extending radially through the rotor core and said flanges with the ends of said slots disposed in said flanges and parallel to each other on opposite sides of said ring, a plurality of vanes each disposed in one of said slots and guided by the side and end walls thereof, each vane having outwardly projecting legs straddling said ring and having a running fit therewith, said ring, said rotor and each pair of adjacent vanes defining a fluid chamber which expands and contracts alternately in successive half revolutions of said rotor, fluid inlet and outlet recesses formed within said stud, cooperating valve ports opening outwardly from said stud and inwardly from said rotor and operable to connect each of said chambers first to one of said recesses and then to the other in each revolution of the rotor, and valve means responsive to turning of said rotor and operable to connect the inner end of each of said vane slots first to one of said recesses and then to the other to seal the adjacent vanes against said ring while the intervening chamber is under high pressure, said vane legs being exposed at their outer ends to atmospheric pressure whereby the high pressure acting on the larger area inner end and the outer smaller end area produces a resultant force holding the vane outwardly against said ring.

2,658,457
WELL PUMP
Dixon T. Harbison, Fort Worth, Tex.
Application December 15, 1950, Serial No. 200,967
5 Claims. (Cl. 103—181)



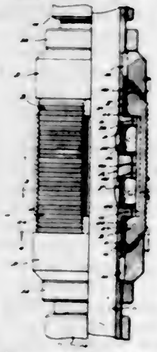
1. In an insert rod pump adapted to be received in a well tubing and having a pump barrel member and a pump plunger member and means for moving one member with respect to the other member to pump well fluids, said means including a connecting element connected to and extending axially upwardly from the movable pump member, a sand shroud including, a solid unitary one-piece imperforate upper fitting connected to the upper end of the connecting member and extending radially outwardly from the connecting member and over the pump, an elongate tubular shroud having an open bottom and encompassing the pump barrel, the shroud being connected to and depending from the marginal portion of the upper fitting, whereby the connecting member, the shroud, and the fitting form a unitary structure completely closed at its upper end, and means on the fitting for connection with a sucker rod string spaced above the connection to the connecting member whereby the sucker rod string is spaced above the connecting member and separated therefrom by the imperforate fitting.

2,658,458
LUBRICATION SYSTEM FOR RECIPROCATORY PLUNGER PUMP
Wilfrid Edward Walter Nicolls, Pinner, England, assignor to C. A. V. Limited, London, England
Application November 23, 1951, Serial No. 257,689
Claims priority, application Great Britain December 4, 1950
3 Claims. (Cl. 103—202)



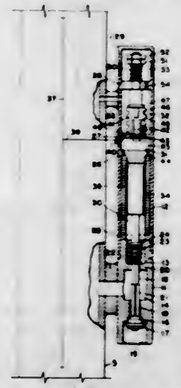
1. A lubrication system for liquid fuel injection pumps of the cam actuated reciprocatory plunger type having a closed cam shaft chamber comprising, in combination with the cam shaft chamber, a source of air under pressure, a pipe connection between said source and the upper part of said chamber, an oil storage tank, and a second pipe connection between said tank and a lower part of said chamber at which it is desired to maintain the oil level, whereby the air pressure in the chamber forces excess oil from the chamber to the tank.

2,658,459
ANCHOR FOR WELL EQUIPMENT
John S. Page, Long Beach, Calif., assignor to Page Oil Tools Inc., Long Beach, Calif., a corporation of California
Application May 17, 1948, Serial No. 27,384
13 Claims. (Cl. 103—219)



1. An anchor for use in connection with two elements extending longitudinally through a well casing including, an elongate body with two laterally spaced longitudinal openings, coupling means connecting the body with one element with one opening in communication with said element, relatively movable shoes carried by the body engageable with the casing, one of the shoes being fixed against movement relative to the body and another being shiftable relative to the body, and fluid pressure actuated means operating the last-mentioned shoe relative to the body.

2,658,460
ELECTRICALLY OPERATED GAS LIFT VALVE
Louis F. Davis, Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 9, 1950, Serial No. 143,328
11 Claims. (Cl. 103—233)

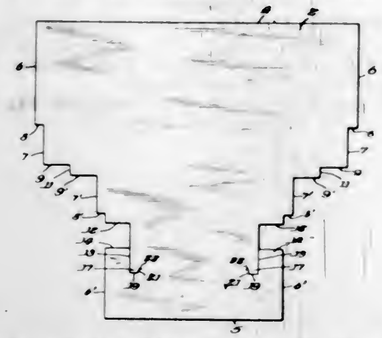


1. In a well flow device including a well tubing having a flow passage for establishing communication between the exterior and interior thereof, a valve element positioned in said flow passage movable to open and closed positions for controlling flow through the passage, resilient means for continuously urging the valve element to one of the positions, a magnetizable plunger connected with said valve element, and actuating means comprising an electromagnetic coil adapted, when energized, to move said plunger whereby to shift the valve element to the other position against the force of the resilient means; the combination therewith of means for automatically energizing the actuating means when the pressure within the tubing at the valve reaches a predetermined value comprising an electric circuit including a source of electrical energy connected with the actuating means, pressure responsive switch means connected in the electric circuit and adapted to be operated upon the application thereto of a pressure equal to the predetermined value, a housing enclosing the pressure responsive switch means, and passage means providing communication between the housing and the well tubing.

2,658,461
SHINGLE
Homer J. Luce, Chicago, Ill.
Application June 23, 1947, Serial No. 756,515
8 Claims. (Cl. 108—7)

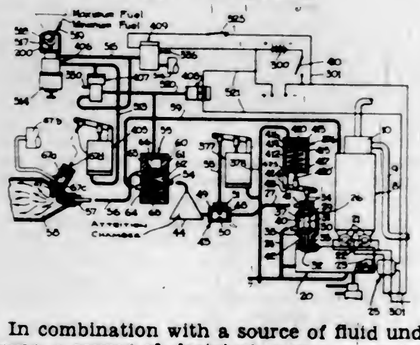
8. An interlocking flexible shingle of substantially T-shape, comprising a rectangular upper section and a rectangular lower section of less width than the upper section, and an intermediate portion, the upper and lower sections having straight side edges of equal vertical height, said lower section being reversibly complementary to the upper section with the adjacent top and bottom edges of complementary shingles being aligned, said lower section being cut out at

the side edges thereof to form a shank portion of less width than the lower section forming a tab at each side thereof, the vertical height of the shank portion being less than the vertical height of said lower section but equal to the distance between the top of the shank portion and the bottom of the upper section, and the edges of the



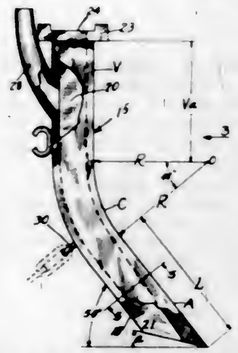
portion formed between the upper section and shank portion being reversely complementary in shape throughout a portion of their lengths, the respective uncomplementary portions thereof formed by the edges between the lower section and shank portion being reversely complementary with a portion of the edges of the head section.

2,658,462
COMBUSTION APPARATUS
Harry C. May, East McKeesport, and Ellis E. Hewitt, Pittsburgh, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania
Original application April 20, 1948, Serial No. 22,208. Divided and this application September 24, 1949, Serial No. 117,700
2 Claims. (Cl. 110—22)



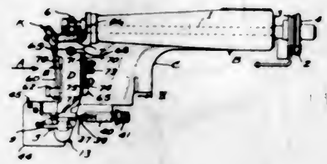
1. In combination with a source of fluid under pressure, a source of electrical energy, a combustion chamber device, two independent sources of fuel, and two nozzle devices for introducing fuel into said combustion chamber device from said two sources of fuel, respectively, fuel conveying means for conveying fuel to one of said nozzle devices, motor operated feeder means for feeding fuel from one of said sources of fuel to said conveying means, a first control pipe, fuel flow regulating means for regulating flow of fuel from the other of said sources of fuel through the other nozzle device, between a maximum amount and a minimum amount in response to variation in pressure of fluid in said first control pipe between a maximum pressure and a minimum pressure, respectively, a fluid pressure supply pipe, an operator's control valve device employing fluid under pressure from said supply pipe to effect said variation in pressure of fluid in said first control pipe, a second control pipe, a pressure switch device responsive to pressurization and depressurization of said second control pipe to disestablish and establish, respectively, an electrical circuit between said source of electrical energy and said motor operated feeder means, relay valve means responsive to pressure of fluid in said first control pipe at or above said minimum pressure to connect said second control pipe either to atmosphere or to said supply pipe, respectively, magnet valve means energizable and de-energizable to establish connection between said supply pipe and either said source of fluid under pressure or atmosphere, respectively, and switch means operable to establish and disestablish electrical circuit between said source of electrical energy and said magnet valve means to control energization thereof.

2,658,463
DRILL TOOTH
Wayne E. Jaeger, Imperial, Nebr.
Application November 16, 1950, Serial No. 196,052
1 Claim. (Cl. 111—86)



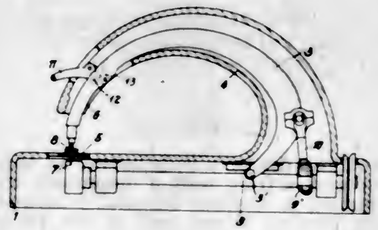
As an article of manufacture, a drill tooth consisting of a hollow steel member having a transverse cross section in the form of a forwardly tapering elongated isosceles triangle with the sides of the triangle being between two and three times as great as the base of the triangle, said member having side walls converging to a forward edge and corresponding to the sides of said triangle and a transverse rear wall corresponding to the base of said triangle, said member having two straight sections joined by an intermediate arcuate section subtending an arc of approximately 40 degrees, one of said straight sections being vertically disposed and forming the upper portion of the drill tooth, the other straight section sloping downwardly and forwardly and forming the lower portion of the drill tooth, a transversely grooved horizontal plate fixed to and closing off the upper end of said member and forming part of a means for attaching the drill tooth to a support, the lower end of said member lying in a plane sloping upwardly and rearwardly from the lowermost end of said forward edge at a small angle with respect to the horizontal, the rear wall of said member terminating above said plane to provide an opening for the deposit of seed, and a tube fixed to said rear wall near the upper end of said member and in communication with the hollow interior thereof so that seed fed into the tube will pass through said member and out the opening at the lower end.

2,658,464
BLIND STITCH MACHINE
Anthony Greco, Hasbrouck Heights, N. J.
Application May 23, 1951, Serial No. 227,883
7 Claims. (Cl. 112—178)



1. A sewing machine of the blind-stitch type for forming and applying stitches to a stationary work piece including a curved needle and a needle plate formed with an orifice transverse thereto, including, in combination, a support for a work piece positioned beneath the needle plate, a pivoted lever carrying the support whereby the support is reciprocable, and spring means to bias the pivoted lever in a direction such that the support will be biased toward the needle plate, a pivoted two arm crank, a spring, said spring having one end attached to a rigid support and the other end attached to one arm of the crank, a revolvable disc mounted on the other arm of said crank, said disc bearing against said lever on the side remote from the needle plate whereby the support is biased toward the needle plate.

2,658,465
SEWING MACHINE HOUSING
Georg Stehr, Kappeln-Schlei, Germany
Application February 14, 1951, Serial No. 210,814
5 Claims. (Cl. 112—181)



1. A sewing machine mechanism, comprising a box-shaped hollow base structure having a work-table top surface and having a stitching plate on said surface, a hollow arm integral with said base structure and having an arcuate exterior shape in a vertical plane, said arm rising from said surface at a place remote from said plate and arching downwardly back toward said surface to above said plate, said arm having its hollow merging with that of said base structure and having exteriorly along its entire length a continuous and substantially uniform curvature of its upper and lower contours within said vertical plane, a drive shaft journalled within said base structure, and needle-operating mechanism means extending through said arm and being connected with said shaft to be actuated thereby.

2,658,466
APPARATUS FOR REMOVING EXCESS SOLDER FROM SOLDERED ARTICLES
Rolland G. Hall, Yalesville, Conn., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a corporation
Application May 5, 1948, Serial No. 25,138
12 Claims. (Cl. 113—97)

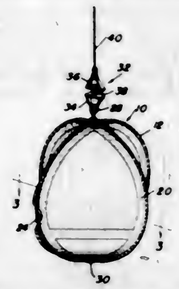


1. In apparatus of the character described, the combination of an endless conveyor, equally spaced clamps carried by said conveyor, mechanism for intermittently indexing said conveyor to bring successive clamps from an ejecting station to a loading station on successive indexing steps, respectively, of said conveyor, each clamp comprising complementary sections, one of said sections being mounted on the conveyor and the other section being pivotally mounted on said first mentioned section, spring means interengaging said sections and biasing said other section into closing relation with said first mentioned section, a follower on said other section, a fixed cam at said ejecting station cooperating with the follower of a passing clamp moving toward said loading station to open said clamp, a cam extension provided on said fixed cam at said loading station, spring means normally biasing said cam extension into a projected position in which to cooperate with the follower of a passing clamp to hold the latter open on its movement into said loading station, a latch provided with spring means to normally bias said latch into positions to lock said cam extension against being depressed from its projected position by the closing bias of a passing open clamp, said closing bias being greater than said cam bias, and means provided on each clamp for operation by an article placed in an open clamp at said loading station, said article-operated means being operable upon said latch means for retracting said latch from locking relation with said cam extension.

2,658,467
WARNING BULB
August G. Trapani, Jr., Covington, La., assignor of one-half to John J. Aertker, Jr., Baton Rouge, La.
Application November 26, 1951, Serial No. 258,221
1 Claim. (Cl. 116—63)

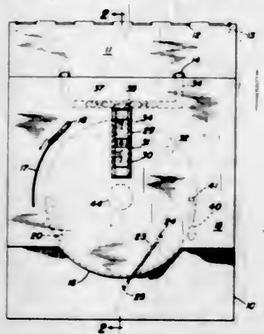
A signal device comprising a collapsible bulb, said bulb including a collapsible frame, a covering on said frame, said frame comprising identical ribs including first and last ribs and a plurality of ribs therebetween, said ribs being of equal

length and having spaced ends disposed on a common axis and means fastening said ribs to



one another, said ribs being collapsible into abutting side-by-side relation with one another.

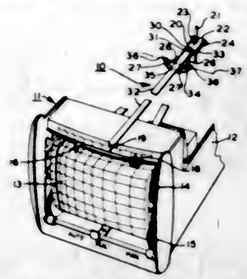
2,658,468
POCKET CONTAINER FOR CIGARETTES
John W. Enfield, Chico, Calif.
Application July 16, 1952, Serial No. 299,082
3 Claims. (Cl. 116—133)



1. A pocket container for cigarettes or the like having a reminder of the dispensing time intervals thereon comprising a case having a lid biased to open position, a latch for said lid, a shallow box fixed to said case, a first disc in said box rotatably secured to said case, said disc having a latch-releasing-cam thereon, a second disc in said box, time interval indicia on said second disc, said indicia arranged on said disc in concentric circles and in skipped sequence in each circle, a slot in said box, an aperture plate slidable in said slot adapted to register with any one of said indicia circles, a circle of spaced perforations in said second disc, means in said box releasably engaging one of said perforations, means on said first disc engageable with another of said perforations for movement of said first and second discs together, and lever means on said first disc operable through a slot in said box to rotate said first and second discs while unlatching said lid.

2,658,469
ADJUSTABLE INDEX ARM FOR MEASURING INSTRUMENTS
Hoel L. Bowditch, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application September 2, 1952, Serial No. 307,546
2 Claims. (Cl. 116—136.5)

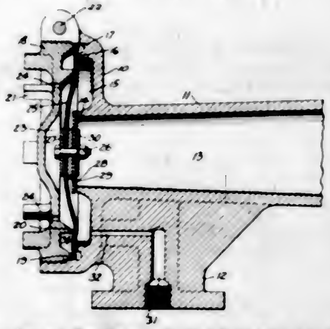
1. In a measuring instrument, a two part index arm unit comprising, in combination, a stub which is driven in a predetermined plane in relation to changes in a variable condition, and an index arm mounted on said stub for pivotal movement in a plane substantially at right angles to said predetermined plane, said index arm mounting comprising pairs of abutting por-



tions of said arm and said stub arranged transversely of said arm unit and provided with elements of a resilient separable fastener arranged to be engaged and released by a force exerted transversely of said arm and when engaged serving to hold said abutting portions together

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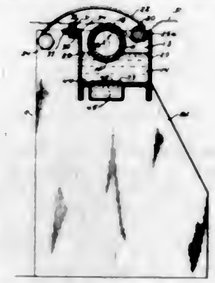
2,658,470
SOUND PRODUCING DEVICE
Robert E. Swanson, Vancouver, British Columbia, Canada, assignor, by mesne assignments, to Nathan Manufacturing Corp., a corporation of New York
Application February 2, 1950, Serial No. 141,969
11 Claims. (Cl. 116—142)



1. In a horn device, a body having an annular chamber with a front wall, a diaphragm within the chamber, a member adjustably secured to the body forming a rear wall of the chamber, the member having an outer annular seat ring at its periphery and an inner annular seat ring in spaced relation radially inwardly from the outer seat ring, both seat rings extending into the chamber, a raised annular seat ring extending from the front wall toward the member concentrically with and between the outer and inner seat rings of the member, whereby adjusting the member will clamp the peripheral portion of the diaphragm between the three seat rings and tension the central portion of the diaphragm.

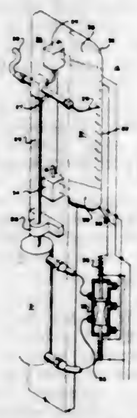
2,658,471
APPARATUS FOR APPLYING PASTE TO WALLPAPER
Ophard Bledsoe, Akron, Ohio
Application April 7, 1950, Serial No. 154,665
11 Claims. (Cl. 118—33)

3. Fluid paste dispensing apparatus of the class described, comprising a trough, a fluid paste supply reservoir, conduit means coextensive with a length of said trough and receiving paste from the reservoir, a plurality of spaced inlet openings from said conduit means opening into said trough at horizontally spaced points along the bottom region thereof, pressure applying means for forcing fluid paste from said reservoir along said conduit means and into said though through said inlet openings, yieldingly depressible valves for closing said inlet openings, said valves being yieldingly self-operable by predeterminate pressure of said paste at various locations in said



conduit means to open the respective inlet openings for passage of paste to the trough, a paste-applying roll, means for rotatably mounting said roll in said trough to be partially immersed in paste contained therein, a tensioning bar gravitationally engageable with paper drawn over the top of said roll to maintain the same under tension, stop means on said tensioning bar for preventing the same from becoming immersed in the paste in said trough, and an elongated flexible wiper element mounted on said trough and engageable by the underside of said paper as it is drawn from said roll.

2,658,472
ELECTROSTATIC COATING APPARATUS
Edwin M. Ransburg, Indianapolis, Ind., assignor to Ransburg Electro-Coating Corp., Indianapolis, Ind., a corporation of Indiana
Application October 29, 1948, Serial No. 57,260
14 Claims. (Cl. 118—51)



14. In electrostatic coating apparatus, a support for an article to be coated, a discharge member having an extended edge presented toward and in spaced relation to an article on said support, a nozzle, means for supplying liquid coating material to said nozzle for discharge therefrom as a jet stream, an extended surface adjacent the discharge edge and disposed to receive directly the jet stream discharged from the nozzle, said surface having an extent many times the diameter of the jet stream, means for producing relative movement of said jet stream and said surface over a predetermined path along which said member extends and for a distance which is also many times the diameter of the jet stream to distribute the coating material substantially uniformly on said surface for flow to said discharge edge for atomization therefrom, means including a high voltage source for creating between the article on said support and the atomized coating material particles an electrostatic field for electrostatically precipitating the particles on the article, said discharge edge being sufficiently spaced from the article on said support to permit the particles atomized therefrom to be widely dispersed by the action of the electrostatic field during their movement to the article.

2,658,473
NONSQUEALING SHEET METAL BRAKE SHOE
J Harold Hunt, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application September 27, 1949, Serial No. 117,963
7 Claims. (Cl. 188—250)



1. A stamped metal brake shoe comprising a substantially arcuate lateral flange and an arcuate web, and a plurality of reinforcing bridges in the form of indentations in said flange and web extending radially inwardly from the outer face of said flange into said web and laterally in said flange on both sides of said web, each indentation having its greatest depth substantially in the plane of the web and decreasing in depth toward the lateral edges of the said flange, each indentation also having its greatest width substantially in the plane of the said flange and decreasing in width from the median line of said flange toward the lateral edges of said flange, each of said indentations extending laterally at least one-half the distance between the side edges of said lateral flange, said indentations being spaced circumferentially along the brake shoe and the brake shoe being provided with an external groove at the junction of the flange and web, said groove being narrower and shallower than said indentations and extending from substantially the mid-section of one indentation to that of the other.

2,658,474
SPONGE CUP
Gustav J. Sengbusch, Milwaukee, Wis.; Walter L. Kuehn and Frederick G. Sengbusch, executors of said Gustav J. Sengbusch, deceased, assignors to Sengbusch Self-Closing Inkstand Company, Milwaukee, Wis., a corporation of Wisconsin
Application April 25, 1950, Serial No. 157,990
3 Claims. (Cl. 118—270)

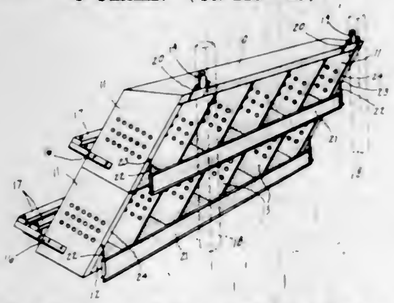
1. A sponge cup comprising an outer receptacle having a bottom wall and an annular outer side wall integral with and extending upwardly from said bottom wall; an inner member having an open ended tube disposed within said outer recep-

tacle in substantially coaxial relation to the side wall thereof with the lower end of said tube spaced from said bottom wall, an annular flange integral with said tube and extending laterally outwardly therefrom intermediate its ends, an annular inner side wall integral with and extending upwardly from the outer periphery of said flange in substantially concentric relation to said tube and having an outside diameter which is a free fit within said outer side wall, and a rim flange integral with said inner side wall and extending laterally outwardly from the upper edge thereof, said rim flange overlying and being seated on the upper end of said outer side wall to thereby deter-



mine the spacing of the lower end of said tube from said bottom wall; the upper portion of said tube, said flange, and said annular inner wall cooperating to form an annular chamber; and an annular gasket intermediate said inner and outer side walls adjacent said rim flange and serving to frictionally secure said inner member in place as aforesaid in said outer receptacle; said tubular member being adapted to hold a sponge with the lower end thereof seated on said bottom wall, and said inner member being provided with a hole establishing communication between said chamber and said receptacle to drain from said chamber any liquid expressed thereinto from a sponge held in said tube as aforesaid.

2,658,475
LAYING NEST
Howard H. Hobbs, Tipton, Ind., assignor to The Oakes Manufacturing Company, Tipton, Ind., a corporation
Application December 23, 1949, Serial No. 134,735
3 Claims. (Cl. 119—45)



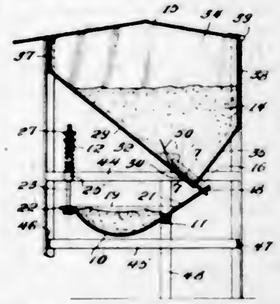
1. In a laying unit for poultry having an open back, a fixed floor, end walls and a series of spaced partitions to provide laying nests therein, the combination therewith of a retaining back strip mounted to normally lie adjacent said floor, end walls and partitions across the back of the unit for retaining litter in the nests, a hanger rod secured to opposite ends of said strip to extend upwardly therefrom, and means for hingedly connecting said hanger rod adjacent the back edges of said end walls a substantial distance above the top edge of said strip for permitting said strip to swing free therefrom and in spaced relation thereto for convenient removal of litter when said unit is tilted.

2,658,476
ALL WEATHER SALT BLOCK
Homer Futter, Spokane, Wash.
Application March 7, 1951, Serial No. 214,421
7 Claims. (Cl. 119—51)



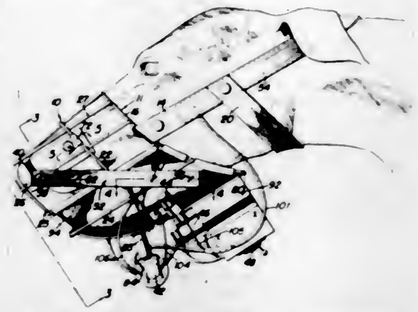
2. An all weather salt block for livestock comprising salt and a water repelling covering adhered together into a solid oblong block, the block having one end tapered to prevent the block from setting upright on said end, the opposite end face of the block having the salt exposed so the livestock may lick it.

2,658,477
AUTOMATIC LIVESTOCK FEEDER
Odean T. Hallum, Denver, Colo.
Application January 9, 1950, Serial No. 137,582
1 Claim. (Cl. 119—57)



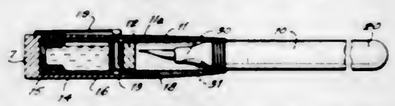
An automatic livestock feeder comprising a frame including a plurality of spaced parallel vertically disposed posts, cross braces extending between said posts and connectced thereto, a pair of vertically disposed spaced parallel bars arranged at the ends of said frame, a horizontally disposed shaft journaled in said bars, a bin supported by said frame and including a sloping bottom provided with an elongated opening, a gate slidably mounted in the bottom of said bin and mounted for movement into and out of closing relation with respect to said opening, clip angles for guiding said gate, the rear portion of said bin being provided with a guiding sloping section having a slot therein for slidably receiving said gate, a cover hingedly mounted on said bin and having its front end extending forwardly of said bin, a trough positioned below said bin and provided with an arcuate lower feeding section, spaced parallel end walls extending upwardly from said arcuate section, a baffle extending rearwardly from said trough and pivotally mounted on said shaft, a tongue extending from said baffle and connected to said gate, a flange extending forwardly from said trough, bolts connected to said flange, bearings mounted on said frame for slidably receiving said bolts, coil springs circumposed on said bolts, thumb nuts adjustably mounted on the upper ends of said bolts for adjusting the tension of said coil springs, and a plurality of points on the inner edge of said gate for agitating the material in said bin.

2,658,478
DOG MUZZLE
Laurence W. Jones, Longwood, Fla.
Application March 21, 1950, Serial No. 151,010
3 Claims. (Cl. 119—130)



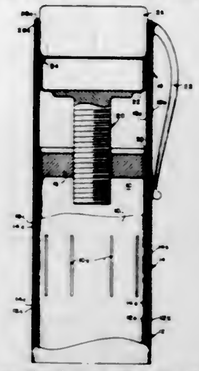
1. A muzzle comprising a wire nose cover having a top, bottom, and sides, a first harness strap secured to said nose cover and adapted to extend behind the upper part of a dog's head, and a second harness strap secured to said first strap and adapted to extend around the lower part of the dog's neck, a battery carried by said nose cover, elongated pressure switches disposed substantially horizontally one on each side of said nose cover, a coil wired to said battery and said switches, and contacts carried by the cover and the first named harness strap to engage the dog and connected in circuit with said battery, coil and switches to shock the dog when either of said switches is closed, said switches coacting with said coil in inducing a high voltage electrical current.

2,658,479
FOUNTAIN PEN CAP HAVING AN INK CONTAINER THEREIN
Mendel Fried, Brooklyn, N. Y.
Application April 26, 1952, Serial No. 284,513
13 Claims. (Cl. 120—7.5)



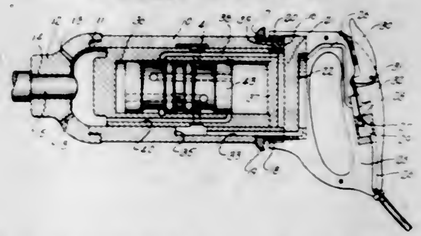
1. A pen cap structure adapted to be removably connected to a pen for covering the point thereof and comprising, in combination, an elongated tube having an open end portion in which a pen point is adapted to be located and having another end opposite said open end portion thereof; an elongated container having a bottom closed end located next to said other end of said tube; resilient means interconnecting said other end of said tube with said bottom end of said container for urging the latter into a first position where said container extends angularly from said tube; and releasable holding means associated with said tube and container for holding the latter against the action of said resilient means in a second position where said container forms an extension of said tube so that when said holding means is released said container will automatically move into said first position under the influence of said resilient means.

2,658,480
PENCIL ATTACHED ADJUSTABLE ERASER
Louis H. Hansen, San Mateo, Calif.
Application February 23, 1950, Serial No. 145,805
11 Claims. (Cl. 120—38)



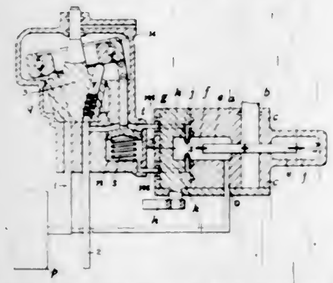
1. In a mechanical pencil attached adjustable eraser construction having two parts actuable to extend and to retract the eraser, an eraser assembly having a threaded portion, a nut mounted in one of said two parts, an eraser tube mounted on said one part for rotation thereon, the eraser being fitted directly to the eraser tube to transmit rotational force from the eraser tube to the threaded portion and to slide longitudinally in the tube.

2,658,481
PNEUMATIC HAMMER
Bernard A. Swanson, Seattle, Wash.
Application June 7, 1949, Serial No. 97,664
5 Claims. (Cl. 121—17)



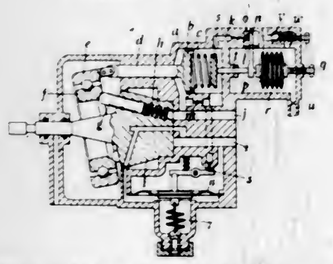
1. In a pneumatic hammer, a hollow cylindrical body, a closure for each end of the body, one of the closures having an axial opening for the reception of the shank of a tool, a hollow cylinder slidable within the body and having a solid closed end adjacent to said axial opening, a closure for the other end of the cylinder, a free moving power piston slidable within the cylinder, a valve controlled means for admitting compressed air to the cylinder from a source of supply, for imparting reciprocating motion directly to the piston in advance of movement of the cylinder, said piston in reciprocating imparting a like secondary motion to the cylinder to drive the said solid closed end of the latter against the said tool shank on the working strokes of both the cylinder and piston, and means for exhausting the expended air alternately from opposite ends of the piston to atmosphere.

2,658,482
MEANS FOR CONTROLLING A LIQUID-OPERATED SERVO MECHANISM
Thomas Alfred Harris, Edgbaston, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application April 23, 1951, Serial No. 222,341
Claims priority, application Great Britain May 1, 1950
3 Claims. (Cl. 121—38)



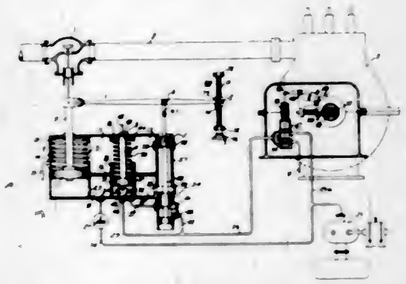
1. Means for controlling the supply of liquid fuel to a prime mover comprising, in combination, a liquid-operated servo-mechanism for varying the fuel supply having a cylinder, a spring-loaded piston slidable in the cylinder and arranged to be moved in one direction by a preponderance of liquid pressure acting on one of its faces and in the opposite direction by the action of the spring loading on its opposite face, a pair of coaxial orifices one of which is connected to one end of the cylinder and the other of which is connected to a source of liquid under pressure and arranged so that flow of liquid takes place from one orifice to the other and thereby acts upon the piston, and a rotary occulter disposed in the path of the liquid flow between the said orifices and comprising a rotary body, a plurality of resilient arms attached at their inner ends to said body, and a shutter attached to the outer end of each arm, the shutters being arranged to traverse a gap between the coaxial orifices and to interpose intermittently a resistance in said path whereby the pressure difference on opposite sides of the aforesaid piston will be varied in accordance with the speed of rotation of the occulter.

2,658,483
FLUID OPERATED SERVO MECHANISM
Thomas Alfred Harris, Edgbaston, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application October 5, 1949, Serial No. 119,701
Claims priority, application Great Britain October 15, 1948
1 Claim. (Cl. 121—41)



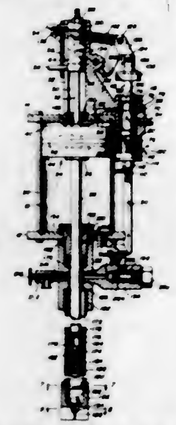
Fluid-operated servo mechanism, comprising in combination a cylindrical chamber provided at opposite ends respectively with an inlet and an outlet for fluid under pressure, a piston slidable in said chamber under the pressure of fluid admitted thereto through said inlet, means forming a restricted passageway interconnecting the ends of said chamber, a spring arranged in said chamber and acting at one end on the side of said piston remote from said inlet, a first valve controlling said outlet, a member responsive to fluid pressure for actuating said first valve, a second chamber enclosing said member and having a restricted orifice through which said member is exposed to atmospheric air pressure, a spring-loaded second valve for admitting air under pressure to said second chamber to supplement the atmospheric air pressure therein, said member being arranged to effect opening movement of said first valve in response to diminution of the air pressure in said second chamber, a movable abutment arranged in said first chamber and supporting the end of said spring remote from said piston, and a thrust piece movable through the medium of said abutment by said piston and spring to effect closing movement of said first valve.

2,658,484
THROTTLE VALVE OPERATING MECHANISM
Clarence E. Kenney, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 29, 1949, Serial No. 84,031
4 Claims. (Cl. 121—42)



1. A control mechanism comprising: fluid pressure supply means, a motor biased to move in a first direction, said motor means being hydraulically connected to said fluid pressure supply means and movable in a second direction in response to an application of fluid pressure to said motor; a pilot valve associated with said motor and movable to progressively open and closed positions controlling the rate of egress of pressure fluid from said motor; a controlling member selectively movable in different directions relative to an intermediate position; a lever associated with said motor, pilot valve and control member to progressively open said pilot valve to effect a movement of said motor in said first direction to effect a follow-up action of said pilot valve, and vice versa; a control valve operable separably from said pilot valve and movable from an open position to a closed position to control egress of fluid from said motor; biasing means associated with said control valve for urging said control valve to said open position; means including a dual fluid supply conduit and a fluid drain for controlling the flow of pressure fluid to and from said control valve, said fluid-controlling means including a movable first element effective in one position to connect said control valve with said fluid pressure supply means and effective in another position to connect said control valve with said fluid drain, and including a second element controllably positioned in one of said dual conduits and connected to said lever for movement therewith, said second element being progressively movable between limiting positions opening and closing said one dual conduit in response to movement of said lever in opposite directions.

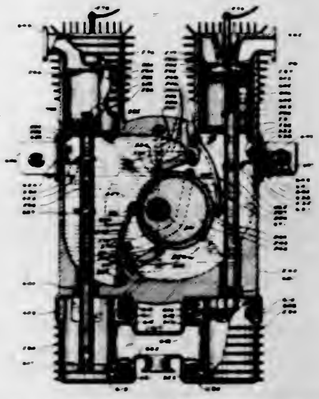
2,658,485
PISTON ACTUATED VALVE FOR FLUID MOTORS
Theodore F. Dreyer, Newark, N. J.
Application April 6, 1948, Serial No. 19,207
2 Claims. (Cl. 121—164)



1. A motor comprising a cylinder, a double-acting piston reciprocably disposed in said cylinder, a piston rod, a lost motion connection connecting said piston rod to said piston and extending slidably through one end of said cylinder, a support on said one end of said cylinder having a bore therethrough through which said piston rod slidingly extends and having a slot opening into said bore throughout the length of the bore, longitudinally spaced pins on said piston rod projecting through said slot for non-rotatably guiding said piston rod, the ends of said cylinder having fluid inlet ports for delivering fluid under pressure to the opposite faces of said piston, said support having a valve chamber therein having longitudinally spaced openings therein communicating with said ports, a fluid conduit opening into said chamber between said openings, a valve reciprocable in said valve chamber for selectively communicating said openings with said ports, a pair of links pivotally mounted intermediate their ends on opposite sides of said support, a shaft connecting one set of ends of said links and being disposed between said pins, pivotally connected members attaching the other set of ends of said links to said valve and over center snap acting spring means connecting said shaft and said connecting means to reciprocate said valve in respect to movement of said shaft by said piston rod pins.

2,658,486
ENGINE FOR TRANSMITTING FORCES DEVELOPED THEREIN
Hal De Waide, Seattle, Wash.
Application April 23, 1947, Serial No. 743,238
10 Claims. (Cl. 123—19)

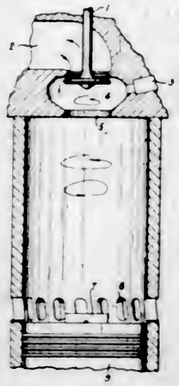
1. A device of the character described comprising a housing forming a liquid chamber; a shaft extending through said liquid chamber; a working cylinder connected to said liquid chamber; a periodically occurring force-developing fluid in said working chamber; power transmitting liquid forming a reciprocating liquid piston-like body in said working chamber; an eccentrically mounted rotatable displacement member mounted on said shaft whereby said power transmitting liquid may be reciprocated; movable partitioning members located above and below said displacement member, each of which members contact said displacement member, each of which members contacts said displacement member in substantially a vertical plane through said shaft, thereby, in conjunction with said displacement member, dividing said liquid chamber into a plurality of compartments; and two abutment members arcuately movably mounted in said compartments, one having one end pivotally mounted in the upper wall of said liquid compartment and the other member having one end pivotally mounted in the lower wall of said compartment, the other end of said members contacting said displacement member in a plane extending substantially horizontally through said shaft whereby the pressure of said power transmitting liquid is applied to a selected segment of said displacement member as respects each compartment, that is, when the leverage arm of said displacement member is greatest in that compartment.



2,658,487
TWO-STROKE INTERNAL-COMBUSTION ENGINE
Nicolás Iturbe Basabe, Cadiz, Spain
Application October 27, 1949, Serial No. 123,803
Claims priority, application Spain May 10, 1949
1 Claim. (Cl. 123—32)

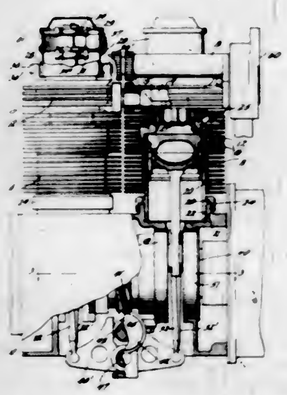
In a two-stroke internal combustion engine, in combination, a hollow cylinder, means having walls forming a heart-shaped compression chamber located at one end of the cylinder, and means forming a restricted passage connecting said compression chamber with said end of the cylinder interior, an exhaust valve located in the middle of that wall of said compression chamber which is opposite said passage, an injector located on one side of said compression chamber, and a piston reciprocable within said cylinder and having a projection fitting into said passage at the outer dead center position of the piston, said projection having ducts extending from the side walls of the projection to the top surface thereof, said piston having an annular recess formed therein and located substantially at the

juncture of the side walls of said projection with the top surface of said piston and communicating with said ducts, said cylinder having intake ports



formed therein and adapted to be uncovered by said piston at and about its inner dead center position, said ports being inclined in a transverse plane to the radii of the cylinder.

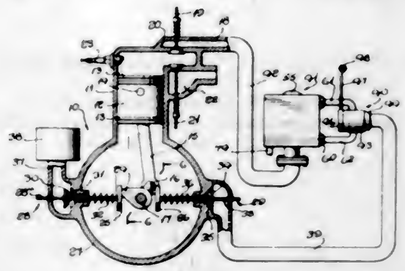
2,658,488
INTERNAL-COMBUSTION ENGINE
Alex Taub, Washington, D. C., assignor to Taub Engineering Company, Washington, D. C., a corporation of Delaware
Application August 7, 1950, Serial No. 178,129
7 Claims. (Cl. 123—41.69)



1. In an engine in combination, a cylinder barrel, a head therefor, separate intake and exhaust casings fastened to said cylinder head, a valve mounted in said cylinder head, rocker mechanism for actuating said valve, a cover for said rocker mechanism pivotally mounted on said intake casing, said rocker mechanism being pivotally mounted on said cover.

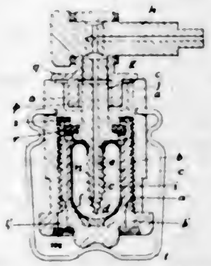
2,658,489
INTERNAL-COMBUSTION ENGINE
J Lewis Putt, Huntington Station, N. Y.
Application March 14, 1952, Serial No. 276,500
13 Claims. (Cl. 123—75)

1. In a fuel supply system for a four cycle engine having a crankshaft, an intake manifold adapted to receive a fuel mixture, and an intake valve controlled by said crankshaft and communicating with said manifold, said valve opening once during a portion of alternate revolutions of said crankshaft, a pressure vaporizer communicating with said manifold for supplying said fuel mixture thereto, means operative once during each revolution of said crankshaft in-



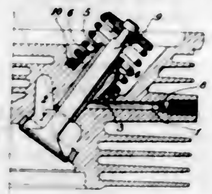
cluding said portion of alternate revolutions when said intake valve is open, for supplying air under pressure to said vaporizer, and check valve means interposed between said pressure vaporizer and said manifold for preventing flow of said fuel mixture from said manifold back into said vaporizer.

2,658,490
MEANS FOR SUPPLYING AUXILIARY FUEL TO INTERNAL-COMBUSTION ENGINES
William Albert Bevis, Pinner, and Patrick Cusack, Chiswick, London, England, assignors to C. A. V. Limited, London, England
Application May 4, 1951, Serial No. 224,586
Claims priority, application Great Britain May 13, 1950
3 Claims. (Cl. 123—187.5)



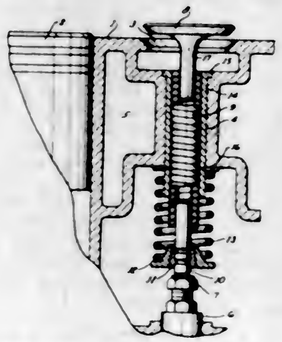
1. Apparatus for supplying auxiliary starting fuel to a diesel or other internal combustion engine comprising, in combination, a hollow body having two relatively movable parts and adapted to receive a puncturable capsule containing ether or other liquid, a suction piece attached to one of the body parts and formed and arranged to puncture and enter the capsule upon appropriate relative movement of the said parts, one of said parts being adapted to be connected to the engine manifold, a well formed in the body and arranged to receive liquid from the capsule, means permitting air to enter the body from the outside atmosphere, and means actuated by relative movement of the body parts for temporarily interrupting the entry of air into the body so that during such interruption the entry of the suction piece into the capsule forces liquid therefrom into the well, whereby such liquid can be drawn freely from the well by the engine during the initial phase of starting of the engine.

2,658,491
COOLING AND LUBRICATING ARRANGEMENT FOR VALVE GUIDES AND STEMS OF THERMAL ENGINES
Georges Levesque Du Rostu, Paris, France, assignor to Societe Anonyme Andre Citroen, Paris, France
Application November 28, 1950, Serial No. 197,853
Claims priority, application France November 30, 1949
1 Claim. (Cl. 123—188)



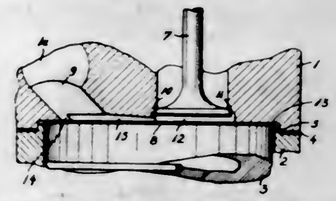
In a thermal engine having a pressure feed device for delivering lubricating and cooling oil, a cylinder block and a cylinder-head and valves, said cylinder-head being formed with bosses, and guides fitted in said bosses for receiving the stems of said valves, the arrangement for cooling and lubricating said valve stems which comprises a cap member providing an annular space surrounding each of said boss and guide assemblies, said cap member being open at its outer end, a duct formed in the cylinder head and connected directly to said space at the bottom of said cap member for feeding lubricating and cooling oil from said pressure feed device to said space.

2,658,492
POPPET VALVE
William H. Taylor, Mentor-on-the-Lake, Ohio
Application October 25, 1952, Serial No. 316,830
15 Claims. (Cl. 123—188)



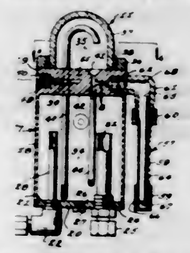
11. A poppet valve comprising a head, a head supporting and guiding stem coaxial with, and connected at one end to, the head, said stem having a shank portion at its opposite end, adapted for connection to a seating spring, and said shank portion having an end surface on its outermost end for engagement by a tappet for moving the valve axially to open position and for disengagement by the tappet for releasing the valve for return to closed position, said stem having a portion intermediate the head and shank portion adapted to fit within a tubular valve guide and supporting and guiding the valve for axial reciprocation, and said intermediate portion having at least a portion in the form of an elastically elongatable coil spring which is coaxial with the head and which, at one end, is fixedly connected to the shank portion and at the other end is secured in fixed position relative to the head.

2,658,493
CYLINDER HEAD FOR DIESEL ENGINES
Richard Kloss, Koln-Buchforst, Germany, assignor to Klockner-Humboldt-Deutz A. G., Koln, Germany
Application August 11, 1951, Serial No. 241,468
Claims priority, application Germany February 1, 1951
7 Claims. (Cl. 123—191)



1. A cylinder head for diesel engines, which comprises in combination, a main combustion chamber partly formed by a portion of the bottom surface of said cylinder head, said bottom surface also being provided with a pair of spaced recesses comprising valve surfaces for cooperation with an inlet valve and an outlet valve respectively, a precombustion chamber provided in said cylinder head and spaced from said main combustion chamber, channel means effecting communication between said main combustion chamber and said precombustion chamber, and a pair of additional channel means provided in the bottom of said cylinder head and extending in V-formation from said first-mentioned channel means to said recesses.

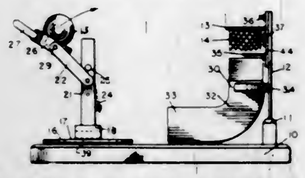
2,658,494
UPPER ENGINE LUBRICATING DEVICE
Louis M. Herzfeld, Beverly Hills, Calif.
Application June 28, 1949, Serial No. 101,796
1 Claim. (Cl. 123—196)



In a lubricating device for an internal combustion engine, a lubricant reservoir having a top wall closing the same, a dome mounted on the top wall and forming therewith a vacuum pressure chamber, supply means for said reservoir, an overflow pipe in said reservoir for maintaining a constant level of lubricant, a pipe extending through the top wall and connecting the chamber and the reservoir, a passage in said top wall communicating at one end with said chamber, a vacuum line from the intake manifold of the engine connected to said passage at the other end thereof, a tubular body supported at one end in said top wall, said body communicating at said one end with said passage, said body having

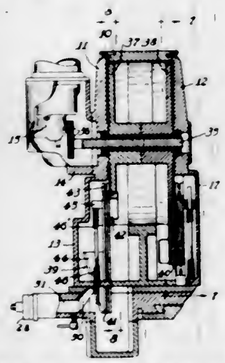
an opening therein for connecting the interior of said body with the atmosphere, a valve in said tubular body for closing said opening, a bimetallic thermostat connected to said valve, said valve being operable by the thermostat in response to the engine temperature for controlling the extent of communication of the passage and chamber with atmospheric pressure.

2,658,495
PROJECTOR FOR SIMULATED BASKET BALL GAMES
William J. Elliott, Sr., Baltimore, Md., assignor of fifty per cent to Ernest L. McNeely, Baltimore, Md.
Application October 15, 1951, Serial No. 251,347
3 Claims. (Cl. 124—7)



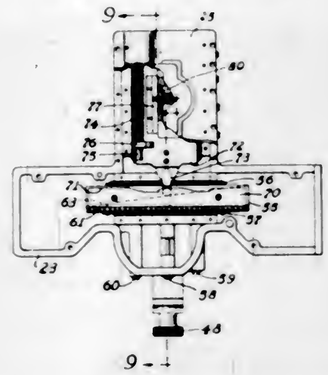
1. In a game apparatus, a stationary base, a circular platform, means for revolvably mounting said platform on the base, a pair of slotted elements carried by said platform at diametrically opposite points thereof, a catapult column having a footing fitting within the slots of the aforesaid elements, a pair of parallel arms pivoted to said column, a limit pin carried by the column above the pivot point of the arms on the column, flexible yielding means for normally biasing said arms against the pin, a saddle stiffly held by and between the arms at their free end, said saddle receiving a free ball, and a manually operated handle carried by the saddle whereby to rotate the arms about their pivot on the column against the resistance of the flexible yielding means and away from the pin, said handle being then released to allow the flexible yielding means to pull the arms and saddle towards the column and project the ball out of the saddle, said arms being stopped at the end of their trajectory by contact with the aforesaid limit pin.

2,658,496
WHEEL DRESSING APPARATUS
Nils Hoglund, Union, N. J.
Application January 20, 1950, Serial No. 139,638
15 Claims. (Cl. 125—11)



1. Apparatus for forming a contour on a grinding surface including a dressing tool, a housing movably supporting said dressing tool for movement in one direction, a slide support for said housing upon which said housing is movably supported for movement in the direction transverse to said one direction, said housing enclosing a cam mechanism therein including a cam controlling movement of said housing and tool, and a second cam in said housing for controlling movement of said tool, and slides cooperating with said cams and with said housing and tool causing movement of said housing and tool in said transverse direction during operation of said apparatus, and movement of said tool in said one direction.

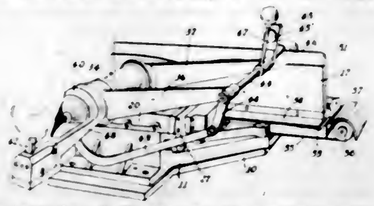
2,658,497
WHEEL DRESSING APPARATUS
Nils Hoglund, Union, N. J.
Application July 12, 1950, Serial No. 173,419
12 Claims. (Cl. 125—11)



1. A grinding wheel contour forming apparatus including a base, a cross slide housing assembly slidably mounted on said base for movement along said base, and comprising a housing, a first slide within said housing movable transversely of said base, and means on said base contacting said first slide for causing longitudinal movement of said cross slide housing assembly along said base, a second slide within said housing movable parallel to the movement of said housing assembly and relative thereto and contacting and controlled by said first slide, and a third slide on said housing and movable normally of said second slide and controlled by said second slide and a forming tool mounted on said third slide, movement of said first slide causing movement of said housing assembly along said base and movement of said forming tool normally of said base.

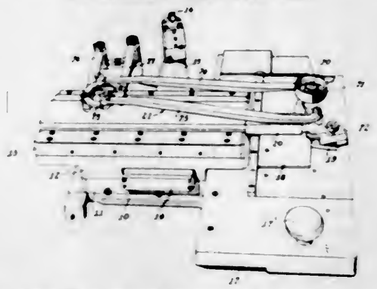
2,658,498
GRINDING WHEEL DRESSING MECHANISM
Nils Hoglund, Union, N. J.
Application February 12, 1951, Serial No. 210,533
13 Claims. (Cl. 125—11)

1. A wheel dressing apparatus comprising a base, a pair of laterally spaced slides mounted on said base and movable along parallel paths, a bell crank mechanism contacting said slides and positioned at the end of one of said slides and at the side of the other of said slides, said mechanism and slides having means to cause differential movement of said slides in the same direction, said means including a cam mounted on said other of said slides and contacting said bell crank, a tool support rotatably mounted on a pivot on said one of said slides and rotatable on an axis normal to the parallel paths of movement of said slides, said tool support comprising a lever mechanism having a tool at one end



and a templet follower at the other end, and a templet on the other of said slides, said follower and templet contacting each other for determining movement of said tool when said slides are moved.

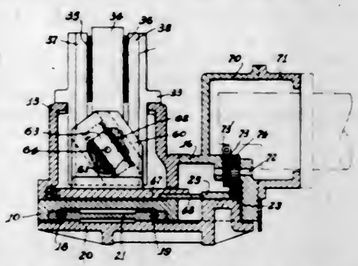
2,658,499
GRINDING WHEEL DRESSING MECHANISM
Nils Hoglund, Union, N. J.
Application April 23, 1951, Serial No. 222,433
10 Claims. (Cl. 125—11)



1. A grinding wheel dressing apparatus including a base, a slide member movable in one direction along said base, a pair of slide guides mounted on and extending transversely of said slide member and said one direction, a first slide mounted on one of said slide guides and a dressing tool mounted at the end of said first slide, and a second slide engaging another of said slide guides and said base for supporting a template, a housing on said slide member, and an elongated member mounted for movement into and out of said housing and supporting at its free end a template follower, a ratio slide mechanism connected between the inner end of said elongated member and said first slide for causing movement of said first slide transversely of said slide member as said elongated member moves into and out of said housing, and a ratio slide mechanism connected between said base and said second slide for controlling movement of said slide member as said second slide is moved transversely of the direction of movement of said slide member.

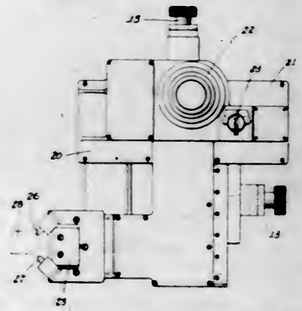
2,658,500
GRINDING WHEEL DRESSING APPARATUS
Nils Hoglund, Summit, N. J.
Application February 6, 1952, Serial No. 270,197
11 Claims. (Cl. 125—11)

1. A grinding wheel contour forming apparatus including an elongated base, a main slide slidably mounted for longitudinal movement along said base, a plurality of slides slidably mounted on said main slide and movable normally to said longitudinal movement in a plane parallel to the plane of said main slide, other slides mounted on said main slide and movable normally to the movement of said plurality of slides and said longitudinal movement, dressing tools mounted on said other slides, mechanisms connecting each of said plurality of slides and said other slides whereby movement of said plurality of slides



will cause movement of said other slides, means mounted on said main slide for moving said main slides and mechanism connected between said plurality of slides and said base for individually controlling each of said dressing tools to form different contours simultaneously.

2,658,501
GRINDING WHEEL DRESSING APPARATUS
Nils Hoglund, Summit, N. J.
Application February 12, 1952, Serial No. 271,255
9 Claims. (Cl. 125—11)

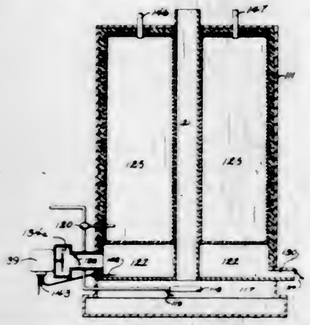


1. A grinding wheel dressing apparatus having a support, a main frame mounted for vertical movement on said support, a pin fixed to said support, a first slide mounted on said main frame and movable parallel thereto in a vertical direction, a second slide on said main frame movable normally to said first slide and carrying a tool for dressing a grinding wheel, and a ratio slide and slide guide connected between said first and second slides for transferring movement of said first slide to said second slide, a third slide mounted on said main frame and movable transversely of the direction of movement of said main frame, a cam supported on said third slide engaging said pin, said pin supporting said main frame and all of the elements supported thereon and connections between said third slide and said first slide for causing movement of the second slide.

2,658,502
COMBINATION WATER AND ROOM HEATER
Harley L. Severance, Madison, Wis.
Application September 13, 1949, Serial No. 115,458
1 Claim. (Cl. 126—101)

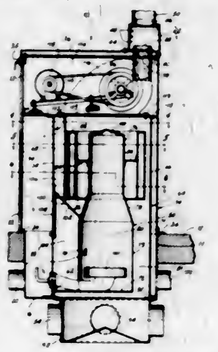
An air and hot water heater comprising, an insulated housing, an upright container for water

disposed within and adjoining the inner wall of said housing, a vertically disposed flue in the form of a narrow elongated tube of uniform diameter extending centrally upward through said water container and in direct heat exchange relation therewith, the said flue forming a passageway for hot products of combustion whereby to provide direct transfer of heat to said water container, the said container having a substantially horizontal transverse bottom wall extending annularly of said flue and between said flue and the inner wall of said housing, a lower substantially horizontal transverse wall in said housing dis-



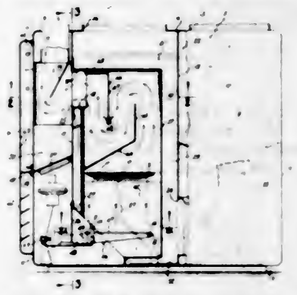
posed beneath and coextensive with said container bottom wall forming an air heating chamber coextensive with said container bottom wall and surrounding said flue and in direct heat exchange relation with the lower extremity of said flue, air inlet and outlet means for said air heating chamber, the lower portion of said housing forming with said lower transverse wall a combustion chamber in communication with the lower extremity of said flue and in direct heat exchange relation with said air heating chamber, and a fluid fuel burner in said combustion chamber.

2,658,503
AIR HEATING FURNACE FOR ABOVE AND BELOW FLOOR MOUNTING
Paul P. Scheurer, Wichita Falls, Tex.
Application September 21, 1949, Serial No. 116,892
10 Claims. (Cl. 126—110)



6. A furnace of the type described, comprising a housing, means including a floor engaging member associated with the housing intermediate its top and bottom for supporting the furnace in an opening contained in a floor or the like intermediate the top and bottom of said housing so that a portion of the housing extends above the floor level and a portion extends below the floor level; an outlet duct header disposed below the housing; said housing having openings communicating with the interior of said furnace below the floor engaging member for receiving cold air return ducts for recycling of air to said furnace.

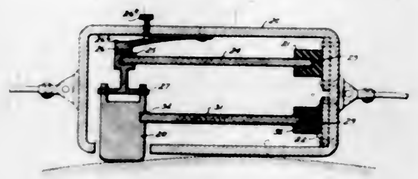
2,658,504
GAS FIRED FORCED AIR FLOW AIR HEATING FURNACE
Richard C. Jaye and John F. Hirtz, Watertown, Wis., assignors to Syncromatic Corporation, Watertown, Wis., a corporation of Wisconsin
Application March 27, 1952, Serial No. 278,912
10 Claims. (Cl. 126—110)



1. In a gas fired furnace: means defining an upright air heating chamber open at its top and having opposite upright front and rear walls, said chamber having a discharge port in an upper portion thereof, and one of said walls having an air inlet port in the lower portion thereof; means defining a bottom wall for said air heating chamber having a substantial portion thereof slanting upwardly away from said wall having the inlet port toward the wall of the chamber opposite thereto to provide a space beneath the air heating chamber along the entire underside of said slanting bottom wall portion; a bank of vertically elongated relatively flat duct-like combustion chambers mounted inside the air heating chamber with their wide sides opposing but spaced from each other and their longitudinal median planes intersecting said designated walls of the air heating chamber, the lower end portions of the combustion chambers which lie adjacent to said slanting bottom wall portion terminating flush therewith and being secured thereto, said slanting bottom wall portion having a hole therein in line with each combustion chamber to provide an inlet thereto leading from said space beneath the air heating chamber; an exhaust header communicating the upper ends of the combustion chambers with the discharge port in the air heating chamber; an elongated gas burner for each combustion chamber having a burner section and a transverse igniter port in an enlarged medial section of the burner; means mounting said gas burners in the furnace, in a bank, with their enlarged medial sections in said space beneath the air heating chamber but adjacent to the underside of said slanting bottom wall portion, and their igniter ports in transverse alignment and collectively extending substantially continuously across the bank of burners, and with their burner sections projecting horizontally through the holes in the slanting bottom wall portion into the lower ends of the combustion chambers; and a blower in the furnace arranged to blow air to be heated horizontally into the lower portion of the air

heating chamber through the air inlet port therein and against the inner surface of said slanting bottom wall portion to cool the same and so that such air is deflected upwardly thereby toward the open top of the air heating chamber to be heated by contact with the exteriors of the combustion chambers during travel of the air upwardly through the air heating chamber.

2,658,505
ARTERIAL PULSE WAVE VELOCITY METER
Charles Sheer, New York, N. Y.
Application March 8, 1949, Serial No. 80,130
4 Claims. (Cl. 128—2.05)



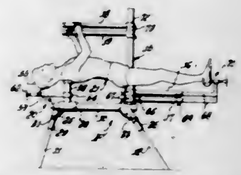
1. A diagnostic apparatus, comprising a casing, a feeler mounted upon said casing adapted to contact an exteriorized artery for a substantial length thereof, means for supporting said feeler on said casing to permit both displacement and rotation of said feeler, including means to create an electrical quantity corresponding to the displacement and means to create an electrical quantity corresponding to the torsion, a differentiating network for obtaining the rate of change of said first mentioned quantity and electrical means for measuring the ratio between said differentiated quantity and said last mentioned quantity.

2,658,506
HEAD TRACTION DEVICE
William E. Haskell, Springfield, Mass.
Application December 17, 1951, Serial No. 262,018
4 Claims. (Cl. 128—75)



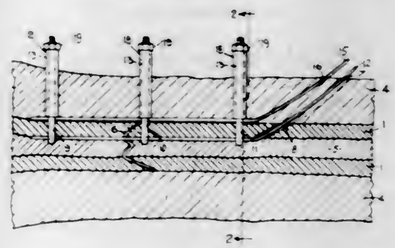
1. Therapeutic apparatus for supporting the weight of a person's head comprising a rear support and a forwardly extending support attached thereto, a lever of the first order extending longitudinally of the latter support with the fulcrum of said lever mounted thereon, a shiftable weight carried on the forward end of the lever and a head engaging traction frame suspended on the rear end of the lever and including shiftable hanger means carried by said rear lever end for moving said frame toward and away from said fulcrum, said lever with its forward and rearward ends being within reach of a user's arms when his head is engaged by said frame.

2,658,507
FRACTURE TABLE
Alonzo J. Neufeld, Los Angeles, Calif., assignor to Alumni Research Foundation of The College of Medical Evangelists, Loma Linda, Calif., a corporation of California
Application January 11, 1951, Serial No. 205,494
2 Claims. (Cl. 128—84)



1. In a surgical table or the like: a head and shoulder supporting structure comprising a vertically disposed post, a shoulder engaging member mounted on said post, an arm supported on said post for angular and axial movement thereon; a head supporting member on said arm, and means operable from the free end of said arm for securing said arm in adjusted position on the post.

2,658,508
BONE FRACTURE SPLINT
Robert B. Gibson, Ponca City, Okla.
Application August 13, 1952, Serial No. 304,155
6 Claims. (Cl. 128—92)



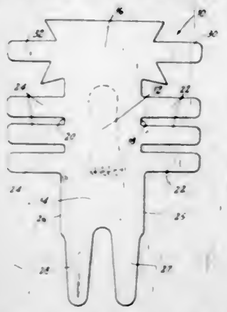
1. As a bone fracture splint, an intra-osseous flexible member, an extra-osseous flexible member, and a plurality of pins firmly supporting and connecting such flexible members.

2,658,509
HERNIAL TRUSS
George Ajdukovich, St. Louis, Mo.
Application June 2, 1950, Serial No. 165,775
2 Claims. (Cl. 128—101)



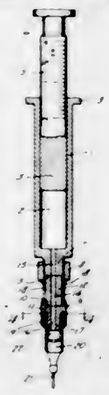
2. A truss comprising an elastic belt, a pair of truss pads mounted along said belt, and a limp and inelastic member connecting said pads in fixed, spaced relationship along said belt, said connecting member being positioned between said truss pads and the said elastic belt.

2,658,510
PROTECTIVE COVERING FOR FEET OR HANDS
Joyce J. Hilton, St. Louis, Mo.
Application April 26, 1951, Serial No. 223,047
4 Claims. (Cl. 128—157)



1. A protective covering for a person's foot, comprising a sheet of flexible, washable material containing a body portion of roughly rectangular shape having opposed side edges and of a length corresponding to the length of the foot; adjustable means at the side edges for fastening them together comprising laterally extending tie members; a tongue portion at one end of the body portion; a cuff portion at the other end of the body portion and having opposed side edges; and adjustable means comprising laterally extending tie members at the side edges of the cuff portion for fastening them together.

2,658,511
HYPODERMIC SYRINGE
Dale Q. Furnell, St. Paul, Minn.
Application May 8, 1952, Serial No. 286,714
2 Claims. (Cl. 128—218)



1. A hypodermic syringe comprising a metallic cylindrical barrel, a metallic plunger closely fitting said barrel and longitudinally slidable therein, said plunger having a handle portion at one end which projects longitudinally outwardly of one end of the barrel, a hollow metallic needle mounting member detachably secured to the other end of the barrel, said member having an axially extended recess in one end and a passage extending from the bottom of the recess to the opposite end of the member and communicating with the interior of a hollow needle mounted on said opposite end, and a transparent conduit in said recess, one end thereof being seated at the bottom of the recess and the other end thereof being adapted to be seated against the last mentioned end of the barrel in communication with the interior thereof when said mounting member is secured thereto, said needle mounting member having a transverse sight aperture therein whereby fluid in said transparent conduit may be observed by the operator.

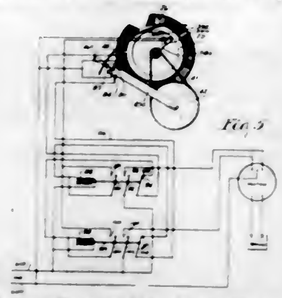
2,658,512
WASHING APPARATUS WITH CUSHION AND DRAINAGE FACILITIES
Joana d'Arc Yok Heng Tcheong, Bangkok, Siam
Application June 28, 1951, Serial No. 234,091
2 Claims. (Cl. 128—292)



1. A multipurpose appliance adapted to be placed on a bed or similar relatively stationary support and suitable for use in connection with certain surgical and analogous requirements or for use for miscellaneous bathing, washing and shampooing purposes and comprising two complemental parts; namely, a first part in the form of a cut-out blank of flexible water-proof sheet material, said blank provided at one end with a disk-shaped base forming member and the latter being provided on one marginal side with an elongate substantially rectangular drainage apron, the longitudinal marginal edge portions of said apron being inturned to provide edging flaps, the flaps at their ends adjacent to the marginal portion of said disk-shaped member being tangential to said member, an inflatable and deflatable substantially C-shaped tube superimposed on and adhesively secured to the marginal portion of said base member, said C-shaped member having free portions which are spaced apart to provide a discharge opening, said opening being in alignment with the median portion of said apron, stays interconnecting said spaced ends, said stays in conjunction with the tube, when the latter is inflated, serving to minimize undue rumpling of the apron, the inner end portions of the aforementioned flaps being superimposed against and secured to adjacent upper surfaces of said tube and coacting with the latter in forming a trough-like mouth for said apron.

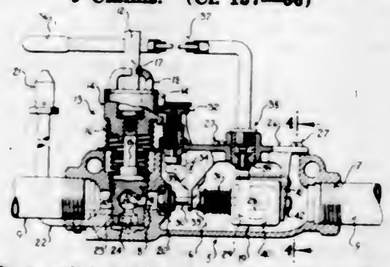
2,658,513
AUTOMATIC SELECTION CONTROL FOR DRUM-TYPE STORAGE FILES
Jerome L. Clough and Chauncey C. Clough, Milwaukee, Wis.
Application November 26, 1943, Serial No. 511,822
7 Claims. (Cl. 129—16.1)

1. The combination with a rotatably mounted record-filing wheel, of a control comprising actuator and contact elements, one of said elements being connected with the wheel and the other being manually adjustable, means for reversibly actuating the wheel, an index scale, a member adjustable respecting the scale and connected with the manually adjustable element, and a handle mounted on said member and provided with means connecting it to said member by which it is adapted for limited movement respecting said member, switch means mounted between the member and the handle and adapted to be closed alternatively by the limited movement of the handle respecting the



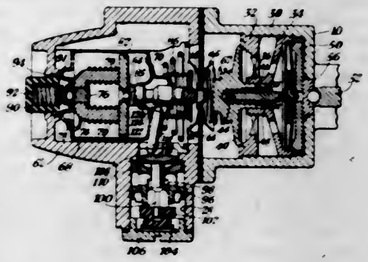
member, according to the direction in which the handle is operated to move the member, and electrical connections from the switch means for controlling the direction in which the wheel is operated.

2,658,514
GAS VALVE
Eugene E. Meusy, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 21, 1949, Serial No. 134,167
9 Claims. (Cl. 137—66)



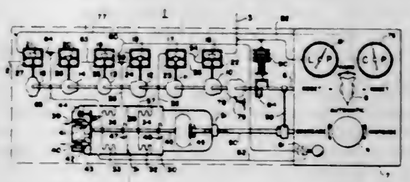
6. In a valve mechanism: a hollow valve body defining an elongated chamber having substantially coaxial ports at the opposite ends thereof and a valve seat at the mouth of one of said ports facing the inside of the chamber, said chamber having one side thereof open; a valve assembly including a valve disc and an electromagnetic latch mechanism operable to hold the valve disc off its seat, said valve assembly being of a size to be readily passed through said open side of the chamber; means for supporting the valve assembly wholly within said chamber intermediate the ends thereof and with the valve disc slidably mounted for axial movement between a closed position seated upon the valve seat and an open position spaced therefrom; a cover removably secured over said open side of the chamber for closing the same; said supporting means for the valve assembly holding the same spaced from the cover and the walls of the chamber so that fluid flowing through the valve body passes around said valve assembly; a plunger mounted for endwise reciprocation transversely of the axis of said openings and having one end portion thereof projectable into said chamber; and means in said chamber for connecting said projectable end of the plunger with the valve disc and thereby translating endwise movement of the plunger in one direction into sliding movement of the valve disc to an open position spaced from the valve seat.

2,658,515
SAFETY RESET VALVE DEVICE FOR BURNERS
Wilbur F. Jackson, Compton, Calif., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application May 15, 1951, Serial No. 226,354
14 Claims. (Cl. 137—66)



1. In a control device, the combination of valve means movable between controlling positions, electromagnetic means adapted to govern the operation of said valve means, said electromagnetic means including a movable electromagnet having an armature separable therefrom for movement between attracted and released positions, resetting means operable for moving said electromagnet into engagement with said armature, auxiliary valve means movable between controlling positions, auxiliary valve actuating means cooperable with said electromagnet and said armature for moving said auxiliary valve means to one of said positions during the resetting operation, means for retaining said auxiliary valve means in said one position, and an operative connection between said armature and said last named means for rendering said last named means effective while said armature is in said attracted position and ineffective while said armature is in said released position.

2,658,516
FLUID RELAY MECHANISM
George E. Luppold, Jr., Los Angeles, Calif., and Jack F. Shannon, Euclid, Ohio, assignors to Bailey Meter Company, a corporation of Delaware
Application April 20, 1948, Serial No. 22,174
8 Claims. (Cl. 137—86)



1. A relay mechanism comprising, in combination, means providing a first pressure chamber having a flexible wall, means providing second and third pressure chambers separated by a common flexible wall, means connecting said flexible walls together for simultaneous movement, fluid supply and discharge ports opening into said third chamber, valve means for controlling said fluid supply and discharge ports, means including a member yieldingly urged in one direction for effecting actuation of said valve means to close said supply port and to open said discharge port, said member arranged for actuation

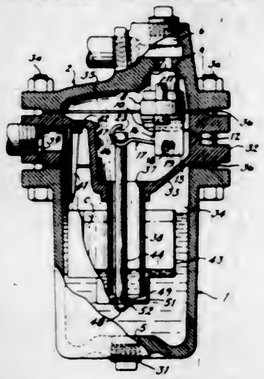
by said wall connecting means to open said supply port and to close said discharge port, yielding means connected to said wall connecting means and adapted to be adjusted for exerting a yielding force on said connecting means in either of opposite directions, valves for connecting said first chamber either to a pressure fluid supply or to exhaust and connecting said second chamber either in restrictive communication with said third chamber or to exhaust, valve actuating means operable in a first position to cause the valves to connect said first chamber to said fluid supply while connecting said second chamber in restrictive communication with said third chamber, and operable in a second position to cause the valves to connect said first and second chambers to exhaust, locking means for said valve actuating means, said locking means responsive to the supply pressure and operative to effect a locking of said valve actuating means when the latter is in said second position and the supply pressure varies from a predetermined value.

2,658,517

VAPOR TRAP

William S. Goff, Cleveland, Ohio, assignor to The Clark Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application January 26, 1950, Serial No. 140,639
4 Claims. (Cl. 137—190)



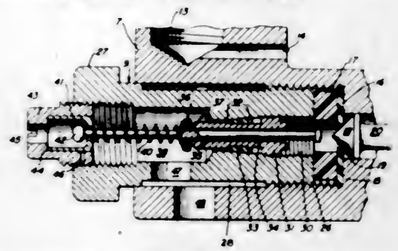
1. A fluid trap comprising a lower cup-shaped member defining an upwardly opening liquid-collecting chamber and having a flat annular seat about its upper open end, a valve-actuating float disposed in said cup-shaped member, an upper housing member defining an outlet orifice and having a downwardly facing flat annular seat, a valve mounted on said upper housing member for opening and closing said orifice, and an intermediate housing member of generally cylindrical configuration about a vertical axis, said intermediate housing member having a downwardly facing flat annular seat about its lower end and an upwardly facing flat annular seat about its upper end and having its lower and upper flat annular seats respectively disposed in sealing relationship with said flat annular seats of said lower and upper housing members, said intermediate housing member including a generally transversely extending partition spaced from said upper housing member for defining an upper chamber therebetween and for separating said upper chamber from said liquid-collecting chamber, means acting through said partition for actuating said valve to open and close said orifice in response to vertical movement of said float, said flat annular seats of said upper and lower housing member being of substantially the same size so that they may be disposed in sealing relationship with each other when said intermediate housing member is removed from the assembly.

2,658,518

AIR RELEASE FOR WATER TANKS

Philip W. Harland, Quakertown, and Leon D. Johnson, Sellersville, Pa., assignors to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware

Application February 17, 1949, Serial No. 76,992
6 Claims. (Cl. 137—210)



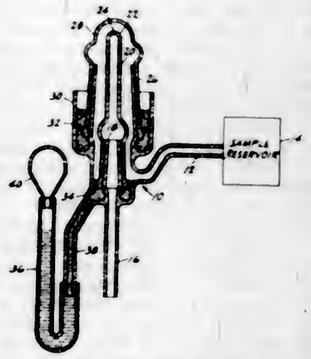
1. A pressure release valve assembly comprising a cylindrical body, a cylindrical tire valve core, a passage through said body into which said tire valve core is adapted to be screwed, a shoulder in the passage against which said tire valve bears, a rod passing axially through the valve core, a valve disc carried by the rod and adapted to seat against the end of a valve core, a stamped piece loose on said rod, a coil spring surrounding said rod compressed between said piece and said valve disc, a threaded adjusting nut movable axially in the body relative to said tire valve core, a recess in said adjusting nut supporting said stamped piece and permitting the spring to be compressed against the disc resting against the end of the core to regulate the pressure required to unseat the valve disc.

2,658,519

LEAK VALVE

Calman S. Sagady, Ecorse, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware

Application July 9, 1951, Serial No. 235,737
4 Claims. (Cl. 137—253)



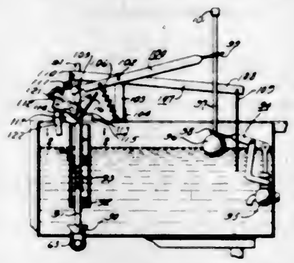
4. A leak valve, including, a support member, inlet and outlet tubes extending from the member, a control tube extending from the member and communicative with the outlet tube to establish a continuous circuit for the flow of fluid, a channel tube extending from the support member, a cap adapted to seat on the channel tube to seal the tube, an upturned flange extending from the member adjacent the channel tube to form a trough, a liquid adapted to lie in the trough to seal the juncture between the cap and the channel tube, an inverted tube adapted to fit on the control tube in communication with the inlet tube, the inverted tube being closed at one end, there being a hole of small diameter in the closed end of the inverted tube to provide a continuous circuit between the inlet and outlet tubes, a liquid adapted to lie in the support member adjacent the control tube and the inverted tube to seal the juncture between the tubes, and means operative in one position to raise the level of the liquid above the inlet tube to prevent communication between the inlet and outlet tubes and in another position to lower the level of the liquid for the establishment of such communication.

2,658,520

WATER-RESERVOIR CONSTRUCTION

Walter G. Ribeiro, Camden, N. J.

Original application April 25, 1949, Serial No. 89,407. Divided and this application February 15, 1951, Serial No. 211,020
2 Claims. (Cl. 137—391)



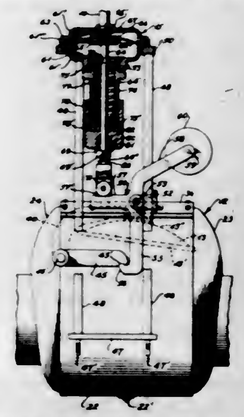
2. For use in delivering a predetermined amount of water in an ice-making machine or the like, a water-reservoir having a discharge opening formed in its bottom wall, an outlet valve normally urged to lowermost position closing said discharge opening, an inlet valve having a control-arm normally urged to lowermost position opening said inlet valve, a float-member within the reservoir adapted to move vertically in buoyant relationship to the water-level within the reservoir and constructed and arranged to raise said control-arm to close said inlet valve when the water-level reaches a predetermined point within said reservoir, said float-member having an elongated rod extending upwardly therefrom beyond the control-arm of the inlet valve, operating means for raising said outlet valve to permit the water to drain out of the reservoir through its bottom opening, said operating means including an elongated stem extending upwardly from said outlet valve, outlet valve regulating means including a rotatable shaft in operative engagement with said stem and arranged to raise said stem when said rotatable shaft is turned in one direction and to permit said stem to be lowered when said rotatable shaft is rotated in the other direction, and a latch-mechanism for retaining said outlet valve in its upper open position and for maintaining the control-arm of the inlet valve in uppermost valve-closing position while the reservoir is draining, said latch-mechanism including a generally horizontal lever pivoted intermediate its ends and having one end operatively engaged with the rod of said float-member whereby downward movement of the float-member to its lowermost position will cause tilting of said lever and having its other end adjacent said outlet valve regulating means, said lever being normally urged so as to maintain its end adjacent said outlet valve regulating means in lowered position adjacent thereto, said outlet valve regulating means arranged to be moved into locking relationship with the adjacent end of said lever when said shaft is rotated to valve-raising position, a second lever pivotally mounted intermediate its ends, means connecting an end of said second lever to the control-arm of the inlet valve whereby raising said end will prevent lowering of said control-arm from its uppermost valve-closing position, and said second lever being connected at its other end to said rotatable shaft so that rotation of said rotatable shaft to valve-raising position will tilt said second lever and raise said control-arm of said inlet valve to uppermost valve-closing position, and whereby the downward movement of the float-member to its lowermost position will tilt said first lever so as to raise the other end thereof and permit the shaft to rotate to its original position closing the outlet valve and permitting tilting of the second lever to its original position thereby releasing the control-arm so as to open the inlet valve.

2,658,521

PRESSURE RESPONSIVE CUTOFF VALVE

William L. Lyon, South Norwalk, Conn.

Application December 29, 1951, Serial No. 264,211
2 Claims. (Cl. 137—461)

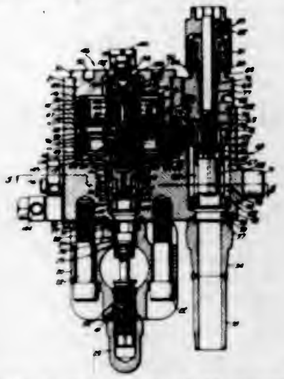


1. A pressure responsive cut-off valve for a conduit conducting fluid comprising, in combination, a horizontally extending valve housing having a central cylindrical portion, inwardly extending bell-like ends on the housing having aligned apertures therein, one of said ends having a flanged sleeve connected thereto adapted to be connected into the conduit, the other of said ends having a flanged sleeve for connecting into the conduit line and having its sleeve extending into the central cylindrical portion, said sleeves being aligned and having a common horizontal axis, and a valve seat disposed in an approximate vertical plane on the periphery of the inner end of said inwardly extending sleeve; a pivotally mounted closure plate for cooperation with the valve seat end of the inwardly extending sleeve within said valve housing; pivotal mounting means for said closure plate attached to the inwardly extending sleeve within said valve housing permitting the plate to swing upwardly allow-

ing clear passage of fluid through said valve housing and its aligned sleeves and to swing downwardly to rest against said valve seat to cut off passage of fluid through said valve; said pivotal mounting means comprising a shaft rotatably mounted in said valve housing above said inwardly extending sleeve and adjacent said valve seat end thereof and lying in a plane extending parallel to the plane of said valve seat and projecting at one end outside of the valve housing, and an arm fixed to said shaft and attached to said closure plate for rotating same to open and closed position when said shaft is rotated; a trip arm fixed to the outer end of said shaft; a bell-crank pivotally mounted on said valve housing having one of its arms provided with catch means for detachably engaging said trip arm to hold said closure in open position, a second arm, and weight means to rotate said bell-crank in one direction to engage said trip arm; and a fluid pressure responsive operator mounted on said valve housing for cooperation with said bell-crank to rotate it to release said trip arm permitting said closure plate to rotate under the influence of gravity to closed position, comprising a fluid control pressure housing adapted to be connected to a fluid pressure source, a diaphragm mounted in said housing and movable in response to pressure applied to said pressure housing, an operating rod connected at one end to said diaphragm and movable therewith and having its other end engageable with said second arm of the bell-crank, a sleeve attached at one end to said pressure housing and extending in spaced relation about said operating rod and threaded on the outside thereof, spring means in said sleeve disposed about said operating rod and connected at one end to said rod, an interiorly threaded closure cap apertured at its end permitting said rod to extend therethrough and threadedly received on the threaded exterior of said sleeve to compress said spring in said housing and against its connection with said rod, whereby said spring connected to said rod may be compressed to counteract a certain pressure acting on said diaphragm in said pressure housing, said spring being compressed and said rod moved when said certain pressure acting on the diaphragm is exceeded whereupon said rod engaging said bell-crank pivots the bell-crank allowing said closure and closure pivotal mounting means to pivot downward under the influence of gravity to cut off fluid passage through said valve.

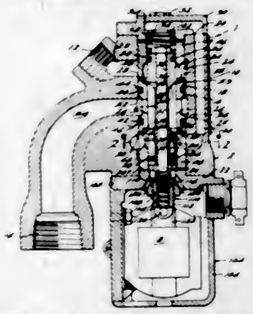
2,658,522
FLOW METERING DEVICE
Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio
Application May 19, 1947, Serial No. 748,921
12 Claims. (Cl. 137—468)

1. In a control assembly for a fluid flow governor, the governor including a housing having an inlet, an outlet, passage means connecting said inlet and said outlet, and a metering orifice in the line of said passage means, the combination of: a sub-housing securable in the housing and readily removable therefrom, said sub-housing providing a first chamber and a second chamber; a main valve piston disposed in said first chamber; a pilot valve piston disposed in said second chamber; means carried by said sub-housing and forming a main valve seat which extends into the line of the passage means between the inlet and the metering orifice when said sub-housing is secured in the housing; main valve means connected to said main valve piston and movable into seating engagement with said main valve seat to control the flow of fluid therethrough; pilot valve means connected to said pilot valve piston and disposed in a passage from the inlet to one side of said main valve piston,



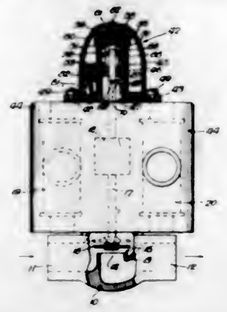
the other side of said main valve piston being exposed to the fluid pressure in the outlet; and means connecting said second chamber across said metering orifice to apply the fluid pressures on opposite sides of said metering orifice to opposite sides of said pilot valve piston.

2,658,523
VALVE STRUCTURE
Frederick H. Johnson, Pleasant Ridge, Mich.
Application October 11, 1948, Serial No. 53,861
23 Claims. (Cl. 137—623)



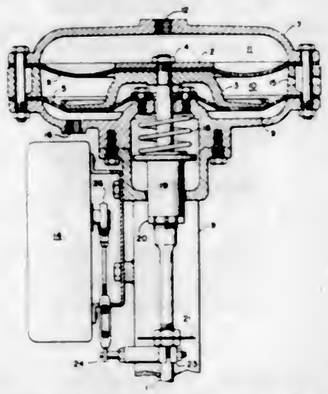
1. In a valve structure, a casing having opposite end walls, a passageway extending through said casing and opening outwardly of said walls, a ported member within said passageway and having oppositely disposed valve seats defining inlet and exhaust valve ports, said member having a fluid flow port disposed intermediate and in fluid flow communication with said inlet and said exhaust ports, a pair of spaced opposed valve members rigidly connected together and spaced to permit solely one of said valve members to engage its respective said seat at one time, said casing being provided with an inlet passageway adapted to be connected with a source of fluid under pressure and in open communication with said inlet port, said casing being provided with an exhaust passageway of restricted flow area, and means providing a passageway communicatively connecting said exhaust port and an end wall of one of said valve members whereby an increase in pressure in said last-named passageway acts to urge said valve members into a position to close said inlet port and open said exhaust port.

2,658,524
MANUAL OPERATOR FOR POWER-OPERATED VALVES
Michael J. D'Amore, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 1, 1950, Serial No. 198,655
10 Claims. (Cl. 137—720)



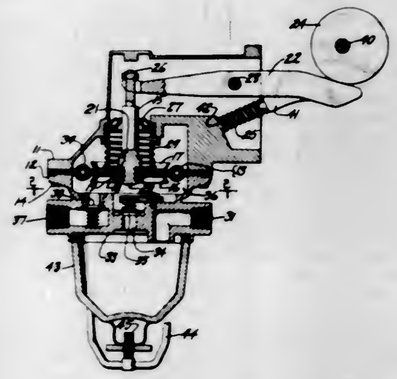
5 In combination, a stem mounted for axial and turning movements, a controlling member connected to said stem for movement between first and second positions by axial movement of said stem, an operator having turning movement and coacting with the stem to impart turning movement to said stem by turning movement of said operator, means for imparting an axial component of movement to the stem by turning movement thereof, and an electric switch actuated from one position to another position by turning movement of said operator.

2,658,525
DIAPHRAGM TYPE EXPANSIBLE CHAMBER OPERATOR
Jack F. Shannon, Euclid, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application September 3, 1948, Serial No. 47,616
5 Claims. (Cl. 137—787)



1. Power structure for positioning a working member including, a casing receiving an end of the working member therein, a first flexible wall cooperating with a first portion of the casing interior wall to form a first pressure chamber, said working member operatively connected to said first flexible wall and responsive thereto, an apertured second flexible wall secured at the aperture to said casing and at its periphery to said casing, said working member received through said aperture, a rigid member attached to the end of the working member and bearing on said second flexible wall, a second pressure chamber formed by said second flexible wall and said casing, and said working member actuated by movement of said rigid member positioned by said flexible walls responsive to fluid pressures.

2,658,526
DIAPHRAGM FOR PUMPS
Howard C. Porter, Fairfield, Ill., assignor to Chefford Master Manufacturing Co. Inc., a corporation of Illinois
Application April 23, 1948, Serial No. 22,831
4 Claims. (Cl. 137—793)



4. In a pump, a diaphragm having two oppositely disposed portions, each portion consisting of one or more plies of flexible substantially inelastic material, clamping means holding said portions at their outer edge part in fixed relationship to each other, other clamping means holding said portions at their central part in fixed relationship to each other, leaving a free annular region between said parts, said portions being free of each other in said free region, said central part being reciprocated during the functioning of the pump, and a readily flexible resilient annular member located between said portions in said region bulging the portions apart to check the formation of slack in the plies for all positions assumable by said central part.

2,658,527
CONDUIT SYSTEM
Edward W. Kaiser, Chicago, Ill.
Original application November 22, 1943, Serial No. 511,366. Divided and this application September 4, 1948, Serial No. 47,851
14 Claims. (Cl. 138—25)

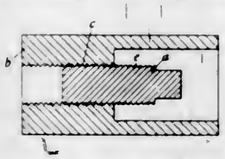


1. A conduit system comprising lengths of interconnected one piece cylindrical casing and pipe sections in end to end relation, spacing means secured to and movable with said interconnected pipe sections and longitudinally slid-

ably and rotatably supporting the same in substantially uniformly spaced relation to the inner sides of the walls of said casing sections with said spacing means being slidable along said inner sides, and form sustaining insulation arranged about said interconnected pipe sections and movable therewith and having the outer surface thereof arranged in spaced relation to said inner sides of said interconnected casing sections whereby a continuous free space is provided between said casing sections and insulation throughout the entire lengths of said casing and pipe sections, said interconnected pipe sections, spacing means and insulation being longitudinally receivable in and removable from said interconnected casing sections as a unitary assembly.

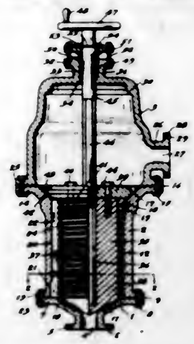
2. A conduit system comprising lengths of interconnected substantially inflexible one piece cylindrical casing and pipe sections in end to end fluid tight relation, longitudinally spaced support means arranged circumferentially about and connected to said interconnected pipe sections having outer portions extending toward and slidable along the inner sides of said casing sections to longitudinally slidably and rotatably support said pipe sections in spaced relation within said interconnected casing sections, and form sustaining insulation supported on and arranged about said interconnected pipe sections sides of said casing sections substantially and movable therewith and having the outer surface thereof in spaced relation to said inner throughout the lengths of the same whereby a continuous free space is provided between said casing sections and insulation throughout the entire lengths of said casing and pipe sections, said interconnected pipe sections, support means and insulation being longitudinally movable in either direction and being longitudinally receivable in and removable from said interconnected casing sections as a unitary assembly.

2,658,528
MEANS FOR PROVIDING A RESTRICTED PASSAGE IN A FLUID CONDUIT
Richard Joseph Ifield, Dural, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England
Application August 12, 1949, Serial No. 109,878
Claims priority, application Great Britain August 31, 1948
2 Claims. (Cl. 138—43)



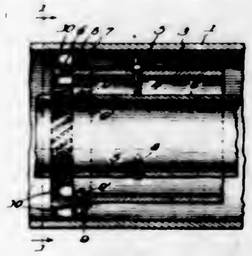
1. Fluid flow controlling means comprising in combination a hollow part having an internal screw thread and another part having an external screw thread complementary to the internal screw thread, one of said screw threaded parts being formed with at least one longitudinal groove of a depth not exceeding the depth of the screw thread of said part, the screw threads of said parts being interengaged and between them forming a restricted helical passage through which fluid can flow and which by reason of said longitudinal groove includes a number of orifices in series which are separated by relatively large gaps and is thereby less susceptible to changes in the viscosity of the fluid flowing therein.

2,658,529
FLUID FLOW RESTRICTOR
Charles A. E. Hensley, Winnipeg, Manitoba, Canada
Application June 19, 1952, Serial No. 294,325
3 Claims. (Cl. 138—46)



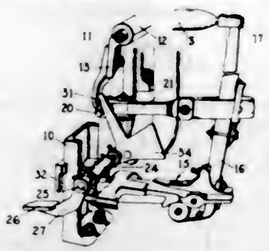
3. A flow restrictor for controlling fluids, comprising: a hollow casing having an intake passage thereto and an outlet passage therefrom; spiral threads formed on the interior walls of said casing, between said passages; grooves across said threads at spaced intervals therearound; toothed liners received in said grooves, with said teeth facing inwardly of said casing; a plunger; spiral threads formed on the exterior of said plunger, of the same pitch as said casing threads, and screwable with the teeth of said liners; said plunger supported on said liners with the thread teeth thereof directly opposite and spaced from the teeth of said casing threads; a control shaft bearinged through said casing and telescopically received by said plunger for operable rotation thereof; and means for rotating the exterior end of said control shaft.

2,658,530
COMBINED SUPPORT AND TURBULENCE EFFECTING DEVICE
Edward W. Kaiser, Chicago, Ill.
Application October 3, 1950, Serial No. 188,173
4 Claims. (Cl. 138—87)



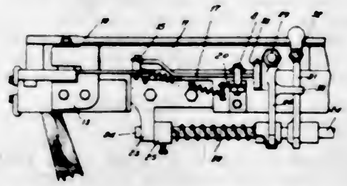
1. In combination with a conduit housing and a conduit in and disposed longitudinally thereof, a solid wall support sleeve about said conduit disposed in spaced relation longitudinally of and between the same and the housing, radially disposed screw-threaded supporting legs threadedly engaged through the support sleeve in circumferentially spaced relation thereabout having their opposite ends movably engaged with portions of the outer side of the conduit and the inner sides of the housing and supporting said sleeve in said spaced relation, and means for locking the supporting legs to the support sleeve.

2,658,531
SHUTTLE EJECTOR
George Cadorette, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application April 22, 1952, Serial No. 283,727
6 Claims. (Cl. 139—146)



1. In a fly shuttle loom having a shuttle, a picker and picker stick for picking the shuttle and means for actuating said picker stick including a pick shaft, a pick arm and means interconnecting said pick arm and picker stick for imparting movement from the former to the latter, an improved shuttle ejector means which comprises a support means, a shaft borne in said support means, a foot pedal fixed to said shaft, an arm fixed to said shaft and engageable with said pick arm at substantially the point at which it is connected to said means through which it actuates said picker stick so that upon depressing said pedal, said arm will effect ejection of the shuttle through the pick arm, interconnecting means and the picker stick.

2,658,532
SHUTTLE BRAKE MECHANISM FOR LOOMS
Cristobal Casals Duran, Sabadell, Spain, assignor to Telares Casals Duran, S. A., Sabadell, Spain
Application August 16, 1951, Serial No. 242,115
Claims priority, application Spain August 22, 1950
3 Claims. (Cl. 139—186)



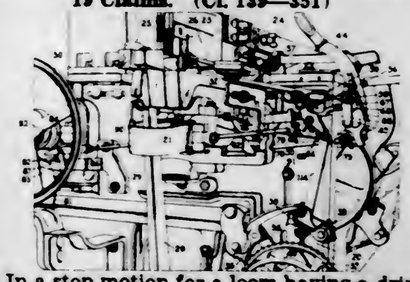
1. A shuttle brake mechanism for a loom comprising a shuttle box, a shuttle adapted for insertion in said box, a binder operatively applying a braking action against the side of the shuttle, a discharge lever arrangement controlling the operative braking engagement of said binder against said shuttle into said box, said discharge lever arrangement comprising a lever support, an axle mounted on said support, a lever arm fixed on said axle, a second lever arm rotatably mounted on said axle, finger means connecting said lever arms, spring means connected to the rotatable lever arm to press said lever arms against the binder to actuate said binder in accordance with a predetermined rotational position of said axle, means to rotate said axle to retract said lever arms and permit the ejection of said shuttle from the box, a disengaging rod engaging said arms in retracted position, and a buffer device mounted on said shuttle box to adjust the position of the disengaging rod relative to the shuttle box.

2,658,533
WEAVING SHUTTLE OF MOLDED MATERIAL HAVING EMBEDDED TIP-ANCHORING MEANS
Wilfrid J. Gosselin, Methuen, Mass., assignor to U S Bobbin & Shuttle Company, Lawrence, Mass., a corporation of Rhode Island
Application September 18, 1951, Serial No. 247,052
8 Claims. (Cl. 139—196)



1. That stage product in the manufacture of a weaving shuttle by molding which comprises a tip including a conical head and an elongate, rigid stem, the stem having an integral part which is unsymmetrical with respect to the axis of the stem and which projects outwardly beyond the peripheral surface of the stem, and a temporary positioning fin integral with the head and projecting from the peripheral surface of the latter for holding the tip in place in a mold.

2,658,534
LOOM KNOCKOFF MEANS
Florence F. Donoghue, Worcester, and Harrison N. Thibault, Hopedale, Mass., assignors to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application June 23, 1950, Serial No. 169,818
19 Claims. (Cl. 139—351)

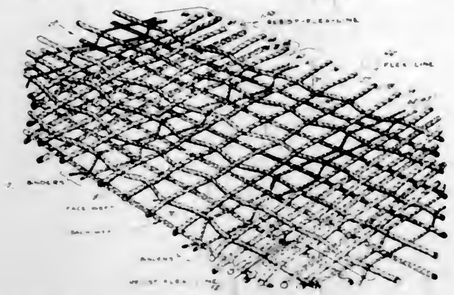


1. In a stop motion for a loom having a driving motor and a brake, a knock-off means movable to and from positions for controlling said motor and brake to start and stop the loom, a pivoted lever and a connecting means therefrom to said knock-off means, a means engageable with said pivoted lever and operable upon indication of filling failure for moving it to a position for actuating the knock-off means to stop the loom, and another means operable upon a warp failure and engageable with said pivoted lever for similarly moving it to activate the knock-off means and stop the loom.

2,658,535
FOLDING MULTIPLY FABRIC CONSTRUCTION
Oscar S. Lawton, New Bedford, Mass., assignor to Phillips-Jones Corporation, New York, N. Y., a corporation of New York
Application June 7, 1950, Serial No. 166,563
10 Claims. (Cl. 139—385.5)

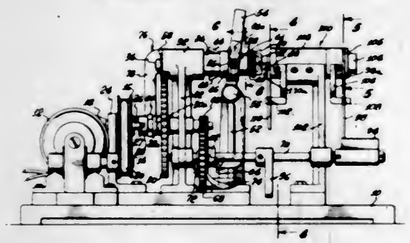
1. A composite multi-ply fabric having a fold zone comprising: a plurality of face warps; a

plurality of warp wise threads rearward of the face warps, which are spaced from each other in groups to form a first plurality of sub zones free of said warp wise threads and a second plurality of sub-zones having warp-wise threads; back wefts; face wefts interwoven with said face



warps; groups of binders disposed along the outer margins of said sub zones; said binders being interwoven with said face and back wefts; the total bulk of said warp wise threads being less than the total bulk of the overlying face warps in each of said second plurality of sub zones.

2,658,536
BLOSSOM STEMMING MACHINE
Charles M. Andersen, Los Angeles, Calif., assignor to Floyd R. Honn, Los Angeles, Calif.
Application August 8, 1949, Serial No. 109,115
4 Claims. (Cl. 140—71)



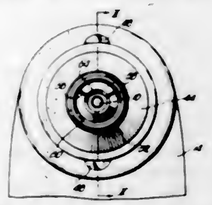
1. A machine for forming wire stems on flowers comprising a driving shaft, a driven shaft, clutch means operatively connected to said driven shaft to releasably drivingly connect said shafts, a rotatable back clamp having members provided with jaws for holding and rotating the rear end of the wire stem, gearing arranged between said driven shaft and said rotatable back clamp operative to rotate said back clamp at a higher speed than the driven shaft, a manually operable lever for effecting the setting of said back clamp into operative position and having connected therewith means to engage said clutch, a front wire stem clamping member, a cam shaft rotated by said driving shaft, and cams rotated by said cam shaft and effective at the completion of each rotation to open the back and front clamping members and to operate the clutch to disconnect the driven shaft from driving connection with said driving shaft, a movable member having one end in operative engagement with the clutch; a plate pivoted vertically on the other end of the movable member; a spring urging said movable member in a direction effective to close the clutch; a first abutment on said plate arranged in the path of movement of one of the cams and effective when engaged by said cam to displace said movable member to open the clutch; and a second abutment on said plate arranged in the path of movement of the means for moving the rotatable back clamping means into operative position and when engaged by said latter means tilting the plate about its pivot to free the first abutment from the cam and thereby release the movable member to the action of the spring to close the clutch and set the machine in operation.

2,658,537
SAW CHAIN
Richard E. Ackley, Westmont, N. J., assignor to Henry Disston and Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application February 23, 1949, Serial No. 77,804
7 Claims. (Cl. 143—135)



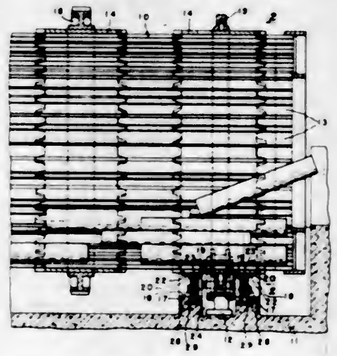
1. A saw chain comprising a plurality of cutter links and means for connecting said links into a chain assembly, each cutter link comprising a tooth shank offset to one side of the median plane of the chain and terminating at its outer end in a foot projecting toward said plane, said shank and foot being beveled at their leading edges to afford cutting edges coinciding with their respective outer faces, and a depth gauge spaced from the tooth shank longitudinally of the chain assembly and offset to the same side of the said median plane as the shank and to an extent such that the profile of the outer face of the gauge is in part substantially congruent with the profile of the beveled edge at the outer side of the shank when viewed longitudinally of the chain and on a line parallel to said plane, said gauge terminating at its outer end short of the outer end of the shank so as to afford an active cutting edge for the tooth extending continuously over the leading edges of the foot and of the immediately adjoining portion of the shank.

2,658,538
SCREW-RETAINING CLAMP FOR POWER-DRIVEN SCREW DRIVERS
Donald M. Kitterman, Kansas City, Kans.
Application October 29, 1951, Serial No. 253,689
4 Claims. (Cl. 144—32)



1. In a screw driving assembly having a motor casing, a primary housing secured to the casing, a motor shaft in the casing, a screw driver shank having a bit on one end thereof and extending into the housing at its opposite end, and means in the housing for operably connecting the shank with the shaft, the improvement of which comprises an outer housing telescoped at one end thereof over the primary housing and surrounding the bit at its opposite end, a tubular socket element in said opposite end of the outer housing and having an annular, truncated, innermost conical wall; a longitudinally split, tubular member of resilient material extending into the primary housing at one end thereof and provided with screw-head engaging jaws at its opposite end, said tube being telescoped on the shank and and said jaws having inclined outer surfaces engaging said wall, said outer housing being longitudinally reciprocable on the primary housing for movement of the socket element to a position releasing the jaws; a first spring coiled about the member within the outer housing between the latter and the primary housing for yieldably holding the wall biased against said surfaces, said member being longitudinally reciprocable on the shank for movement of the latter to a position where its bit engages a screw held by the jaws; and a second spring in the primary housing between the latter and the member for yieldably holding the shank retracted within the member.

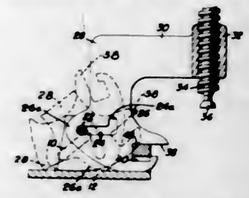
2,658,539
WATER SEAL FOR LOG BARKING DRUMS
Gordon F. McClay, Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application May 15, 1951, Serial No. 226,375
6 Claims. (Cl. 144—208)



1. In combination with a log barking drum having peripheral sealing surfaces, a liquid containing tank, supports for rotatably supporting the drum in the tank, walls in the tank on the opposite sides of the supports, and flexible sealing elements mounted on said walls and held in sealing contact with said sealing surfaces to prevent liquid from entering the space defined between said walls.

2,658,540
QUICK-ACTING HOLD-DOWN CLAMP
Walter J. Sobaski, Chicago, Ill., assignor to Genevieve Sobaski, Chicago, Ill.
Application December 18, 1950, Serial No. 201,308
2 Claims. (Cl. 144—290)

1. A quick-acting clamp comprising a channel shaped base, a frame having inner and outer end portions, the inner end portion of said frame being received in said channel shaped base and having a slot therein, a pivot carried by said base and extending through said slot, a clamping screw carried by said frame, said inner end portion having a notch therein parallel to the slot and at right angles to the screw, and a cross-bar carried by said base and received in said notch when the frame is in operative position to hold the frame



against pivotal movement said notch and said slot being parallel to the base when the cross-bar is disposed in said notch.

2,658,541
HACKSAW FRAME WITH SPARE BLADE STORAGE CHAMBER
Fred Heuneman, Livingston, N. J., assignor to Armstrong-Blum Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 1, 1951, Serial No. 254,411
2 Claims. (Cl. 145—34)

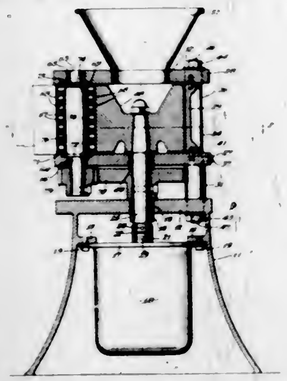


1. A hacksaw frame having a tubular back bar section the interior of which provides a storage chamber for spare blades having perforated end portions, a hand grip member having a butt portion affixed to said back bar section in longitudinal alignment therewith, said butt portion having an endwise open vestibule chamber of substantial length laterally open through one side wall thereof in communication with its rearward open end, said vestibule chamber communicating with and being longitudinally aligned with said storage chamber of the frame back bar, rear end portions of spare saw blades inserted within said storage chamber being exposed through the laterally open side of the vestibule chamber, a keeper post of a size to engage perforations in the blades affixed to the closed side wall of said butt portion inwardly adjacent to the open rear end of said vestibule chamber to extend laterally across the vestibule chamber toward the open side thereof, the perforate rearward end portions of the stored blades to be engaged over said keeper post so as to be normally held thereby against axial displacement from said storage chamber, an outermost blade being adapted to be disengaged from said keeper post by manually flexing its rearward end portion toward the laterally open side of the vestibule chamber and thereupon being subject to longitudinal withdrawal through the open rear end of the vestibule chamber, and yieldable means inwardly of said keeper post to releasably retain the stored blades in engagement with the latter.

2,658,542
SECTIONALIZING MACHINE FOR EXTRUDABLE CUTTABLE MATERIAL
Joe R. Urschel, Valparaiso, Ind.
Application November 1, 1950, Serial No. 193,404
2 Claims. (Cl. 146—192)

1. A sectionalizing machine for extrudable cuttable material, comprising a receptacle for such material, said receptacle having a substan-

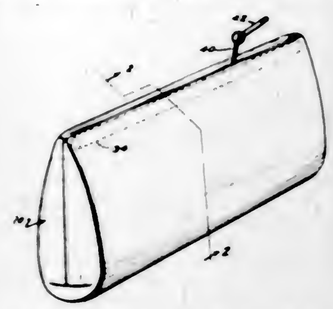
tially cylindrical wall, means for revolving the receptacle-contained material to cause centrifugal force thereof against said wall, said wall containing an opening having an approach edge upon an approach section of said wall over which the revolved material moves as it approaches the opening, an extrusion-receiving structure disposed exteriorly of the receptacle in blocking relation with said opening, said structure having a plurality of material-receiving pockets into which respective parts of a portion of the material in registry with said opening are extrudable by said centrifugal force, said structure being operable to move the material-receiving pockets across said opening in the direction of movement of said registered material portion thereacross, means for operating said structure to move the pockets across the opening at substantially the same speed as said registered material portion, means for severing the extruded material parts from the unextruded part of said material portion, said approach section of the cylindrical wall being disposed tangentially with respect to the cylindrical periphery of such wall and extending outwardly to said approach edge of the opening to accommodate radial outward movement of the revolved material portion for pressing said parts into the pockets.



2. For use in a machine for sectionalizing extrudable cuttable material, an extrusion-receiving structure comprising a rotatable core having an outer periphery disposed coaxially with the rotational axis of such core, a tubular element embracing said core and having an inner periphery in opposed relation with said outer periphery of the core, said tubular element having a cylindrical outer periphery and extruded-material-receiving pockets communicating between the inner and outer peripheries of the tubular element, and at least portions of said opposed peripheries being spaced apart to provide vent means for said pockets.

2,658,543
METHOD OF MAKING HANDBAGS AND PRODUCTS
Frank O. Budnick, Chicago, Ill.
Application August 5, 1950, Serial No. 177,880
4 Claims. (Cl. 150—28)

1. A hand bag constructed of a pair of plastic fabric members, one being a U-shaped outer cover member and the other being a U-shaped liner member, said liner member having an elongated central opening in the top end thereof and being folded adjacent the top to provide a pair of parallel elongated grooves positioned upon opposite sides of said opening, a pair of elongated cloth strips secured in said grooves, interlocking slide fastener members secured to the edges of said cloth strips for closing the opening in said central strip portion, and an air filled tube secured between said outer cover member and said liner member and extending along each side of said fastener.



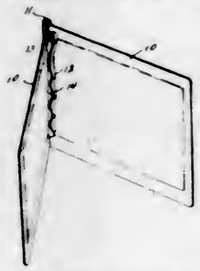
3. The method of providing an inner protection tube in plastic fabric hand bags of the type which have an outer covering and a separate inner liner, the tube being placed on the side of the opening of the bag, which consists in fusing a strip of plastic fabric between the liner and the covering of the bag, folding the edge of the strip back against itself and fusing it to form an open-ended tube, and then applying heat and pressure at the ends of the tube to fuse the ends together, sealing air therein to form a closed resilient tubular cushion.

2,658,544
COMBINATION HOLDER
Rikijiro Osaka, New York, N. Y.
Application May 3, 1952, Serial No. 285,867
1 Claim. (Cl. 150—34)



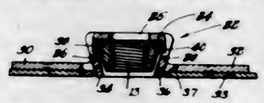
A combination holder comprising an elongated back member having a shorter front wall of like width secured around the edges thereof to the back member except for the top edge thereby forming a pocket open at the top, said back member extending above said top edge thereby forming a pocket flap adapted to fold down over the top of said front wall, means for releasably locking said flap against said front wall in folded down position of the flap, a second front wall of the same width as said first front wall but having a substantially shorter length than the first front wall attached around the edges thereof to the corresponding edges of the lower portion of said back member except for the top edge of said second front wall thereby providing a second and smaller pocket, a removable holder having a pocket therein insertible into said smaller pocket, said removable holder having a cover flap thereon adapted to be folded down over the top of said second front wall, and means for releasably locking said second front wall and said last-named flap together when said removable holder is positioned in said second pocket, said last-named means comprising a female snap button on said last-named flap and a male snap button on the front of said removable holder, said second front wall having an opening therethrough, said male snap button projecting through said opening and being engageable by said female snap button of said last-named flap.

2,658,545
POCKET CASE FOR PAPER CURRENCY
Otto Weydener and William H. St. Thomas, Gloversville, N. Y., assignors to St. Thomas Inc., Gloversville, N. Y., a corporation of New York
Application July 2, 1952, Serial No. 296,849
5 Claims. (Cl. 150—38)



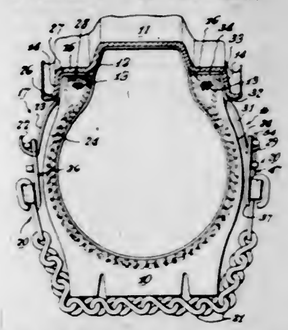
1. A holder for paper currency and the like, comprising in combination, a binder element; a pair of flexible, substantially rectangular leaves gripped and hingedly connected at one end portion in the binder element; a small tubular member carried by said binder element, said tubular member having a bore extending longitudinally of said binder element and positioned between said leaves adjacent to the hinged portions thereof; and a U-shaped clip having one leg mounted in the base of said small tubular member and its other leg positioned between said leaves.

2,658,546
NUT AND RETAINER ASSEMBLY
Edmond C. Crowther, Philadelphia, Pa., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application June 1, 1950, Serial No. 165,543
3 Claims. (Cl. 151—41.76)



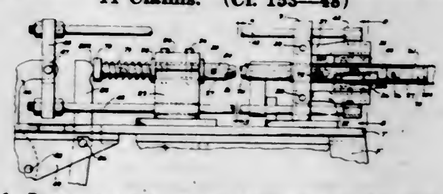
1. A nut and retainer assembly, comprising a solid rectangular nut having a pair of opposed tapered side walls each provided with an axially extending narrow recess through its wider marginal edge, a sheet metal retainer comprising a strip of uniform width having a portion superimposing the nut face of maximum area and tapered side walls complementary to and enclosing the tapered side walls of the nut and providing open ends through which the nut and retainer member may be mutually assembled, the superimposing portion of the retainer member having a bolt-receiving aperture therethrough, said tapered side walls of the nut and the superimposing portion of the retainer member and the complementary side walls of the retainer member cooperating to prevent axial separation of the nut and retainer member while permitting lateral assembly, deformable fingers struck from within the outer and wider margins of said retainer member and disposed in alignment with and extending downwardly into said axially extending recesses for interfitting the nut and retainer member and preventing lateral separation thereof, and means for attaching said retainer member to a work piece and including a base portion extending outwardly from the ends of the tapered side walls of the retainer member adjacent the nut face of minimum area and tabs projecting downwardly from said base portion and adapted to enter a work piece aperture for positioning the assembled nut and retainer member with respect thereto.

2,658,547
TIRE CHAIN CROSS-LINK AND ANCHOR ASSEMBLY
Alfred H. Perlman, Chicago, Ill., assignor to Fral Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application August 1, 1952, Serial No. 302,071
6 Claims. (Cl. 152—233)



1. In a tire chain anchor and cross-chain assembly for a pneumatic tire adapted to be held by inflation thereof to a straight side rim, a tire chain anchor lying one on each side of said tire and held by the pressure of the bead of said tire against said rim, a pair of tire chain hangers having at least one cross chain thereon spanning the tread of said tire, a hook formed on one of said anchors for hooking engagement with one of said hangers, a hook formed on the other of said anchors for hooking engagement with the other of said hangers, a pair of loops formed on the other said hanger, said loops lying one on each side of said last named hook, an opening formed in said last named hook, and a locking clip passing through said loops and said opening for holding the other said hanger in locking engagement with said last named hook.

2,658,548
FORMATION OF WELDING PROJECTIONS ON TUBES
Charles W. Harrison, Warsaw, Ind., assignor to Arnolt Corporation, Warsaw, Ind., a corporation of Indiana
Application October 25, 1949, Serial No. 123,384
11 Claims. (Cl. 153—48)



1. In an apparatus for forming projections on tubular members, a bracket, an elongated hollow

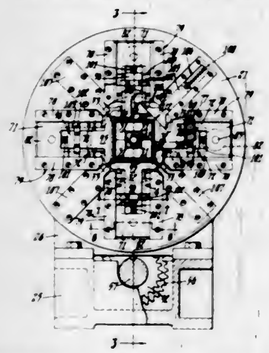
mandrel supported at one end on said bracket and projecting therefrom to afford an outboard end onto which such a tubular member may be loaded by endwise mounting movement into a working position in a surrounding and predetermined longitudinal relation on such mandrel, a pair of parallel clamping members pivoted transversely to the longitudinal axis of said mandrel and mounted for shifting movement laterally of said mandrel and near the outboard end thereof and movable between a laterally retracted position and an inner clamping position, an actuating means for shifting the clamping members to clamping position, the retracted position affording clearance for mounting movement of a tubular member, said clamping position being such as to engage said clamping members with the outer surface of such a tubular member, one of said clamping members having a die cavity formed therein so as to be disposed opposite the outer surface of the tubular member, a forming punch mounted within said mandrel for radial movement toward and away from said die cavity, an operating rod extended through said mandrel and toward said outboard end, an actuating means for said operating rod normally out of engagement therewith, means within said mandrel and operated by said rod in longitudinal movements thereof to impart such radial movements to said punch, and common operating means connected to both actuating means, the space between said operating rod and the actuating means therefor providing sufficient clearance, whereby the actuating means for shifting the clamping members into clamping position is operated in advance of the means for actuating the operating rod to advance the punch.

2,658,549

CONTAINER REDUCING MECHANISM WITH CONTINUOUS JAW FACES

William Pechy, Belmar, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application April 19, 1951, Serial No. 221,863
10 Claims. (Cl. 153—48)



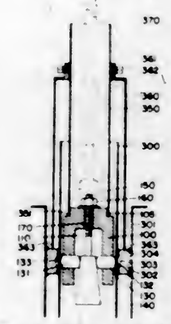
1. A mechanism for reforming the periphery of rectangular tubular articles without undue pinching of the material of the articles, comprising in combination a set of expansible internal backing-up jaws, means for expanding said internal jaws into the corner portions of a said article to back-up and support the corners and the adjacent side walls of a said article, external side forming jaws disposed adjacent and surrounding said internal jaws, said side forming jaws having forming faces extending along the sides of a said article supported by said internal jaws, external corner forming jaws disposed between adjacent ends of adjoining side forming jaws and adjacent the corners of said article, said corner forming jaws having faces for reforming the corner portions of said article, means for moving said side and corner forming jaws toward said internal jaws and against the side walls of said article for reforming said walls including the corner portions thereof, said corner jaw faces providing with said side jaw forming faces an uninterrupted surface completely surrounding said article to prevent portions of the article from being pinched during the reforming operation.

2,658,550

MECHANISM FOR INTERLOCKING PILE TUBES TO SUBMERGED STRUCTURES FROM ABOVE THE SURFACE

John P. Emshwiller, Riverdale, Md.

Application May 5, 1950, Serial No. 160,201
1 Claim. (Cl. 153—80)
(Granted under Title 35, U. S. Code (1952), sec. 266)



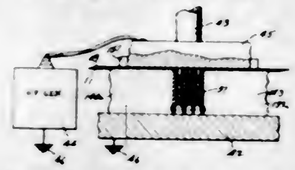
A tool for deforming tubing walls of given diameter into interlocking relation with an external structure at a considerable and variable distance remote from their ends, said tool comprising an expanding unit including a relatively short internally recessed body sized for bodily insertion into the tubing to the depth at which it is to be deformed and comprising laterally movable expanders and means for moving the same; an extension unit detachably secured to said recessed body, said extension unit being sized for insertion into the tubing behind the expanding unit and being of a length to project outwardly from the end of said tubing when the expanding unit is in place therein at such considerable distance from the end thereof; a positioning unit comprising a collar adjustable on the outer end of said extension unit remote from said expanding unit and an outer sleeve carried by said collar and sized to extend externally about the tubing to be deformed and to engage the external structure approximately at the location at which the expansion is to be effected at a position remote from the tubing ends, adjustment of said collar relative to said extension unit serving to position the expanding unit in the tubing in proper relation to the external structure regardless of variation in the distance thereof from the end of the tubing; the expander moving means of the expanding unit being a wrench operable means extending into the internally recessed body and mounted thereon at approximately the level of securement of the extension unit thereto, and the extension unit being tubular and thus providing for the insertion and approximate guidance of an elongated socket wrench therethrough for engaging and operating said expander moving means; the separateness of the wrench operable means from such wrench and the separability of the extension enabling the expander unit to be left in place deep in the tubing where it is protected from tampering or to be removed therefrom after the expansion is accomplished.

2,658,551

APPARATUS FOR MAKING PLEATED CURTAINS

Harry Bender, Lawrence, N. Y., assignor to Home Curtain Corp., Far Rockaway, N. Y., a corporation of New York

Application December 10, 1949, Serial No. 132,376
2 Claims. (Cl. 154—1.8)



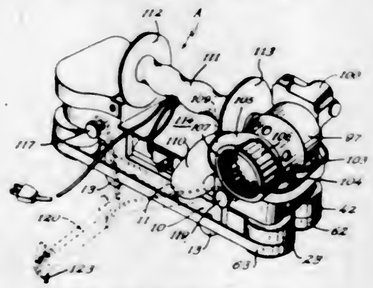
1. Structure for the production of a curtain or drapery having pinch pleats and a rod passage forming element fused thereto comprising: a working surface having at least three depressions therein; a plurality of resiliently mounted fingers for pressing said panel element into said depressions; and a ram head adapted to press the rod passage forming element upon the panel element laterally outward of said depressions; and means to produce heat in said panel element and said rod passage forming element; said fingers being progressively introduced into said depressions starting from the most centrally disposed fingers, whereby the pleats are formed successively, the most centrally disposed pleats being formed before the outside pleats are formed.

2,658,552

POWER HAND BAND SEALER

John J. Grevich, New Richmond, Wis., assignor to Doughboy Industries, Inc., New Richmond, Wis., a corporation of Wisconsin

Application March 29, 1952, Serial No. 279,389
8 Claims. (Cl. 154—42)



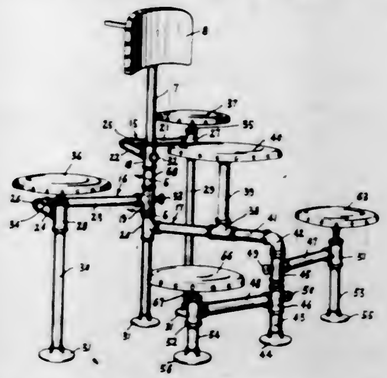
1. A heat sealing apparatus for heat sealing films including a pair of opposed endless bands of heat conductive material, means supporting said bands for travel through respective closed circuits, said bands being disposed in face to face relation through a portion of their circuits, means for driving said bands at similar speeds, said bands being adapted to engage the films therebetween and carry the films through the face to face portion of said circuits, a pair of heating shoes between which the face to face portions of the bands extend, and a pair of cooling shoes between which the face to face portions of the shoes extend, said heating shoes and said cooling shoes engaging said tapes with a sliding engagement, and blower means connected to said cooling shoes to cool the same.

2,658,553

CHAIR FOR GROUP PHOTOGRAPHY

Mary A. Stewart, Canandaigua, N. Y.

Application December 12, 1952, Serial No. 325,580
10 Claims. (Cl. 155—36)



1. A device of the character described comprising two upright members joined by a transverse member, a seat supported by said transverse member, a plurality of supporting members adjustably connected with each of said main upright members, and seats adjustably mounted on said supporting members, said supporting members being movable to different positional relations with respect to said upright members including the folding thereof into compact relation with each other when the device is not in use.

2,658,554

CONVERTIBLE TABLE CHAIR

Sanford L. Specter, Lynbrook, and Stanley R. Hacker, Forest Hills, N. Y.

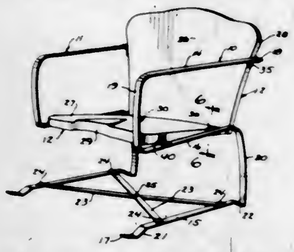
Application January 19, 1950, Serial No. 139,386
1 Claim. (Cl. 155—39)



A device of the character described comprising a table, inverted generally U-shaped tubular members secured to the underside of said table and dependent therefrom to provide legs, the portion in contact with said underside being shaped to provide inwardly leading V-shaped supporting sections, a resilient tubular baby high chair supporting member positioned on said table

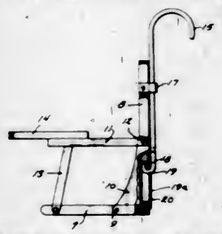
and comprising a lower, generally U-shaped portion which is supported on the table top, upwardly inclined portions at the rear thereof and forwardly extending upper portions which are generally parallel with the table top to which the high chair is secured, latching means carried by said resilient member, and a generally U-shaped member secured to said table top and comprising a central section lying across the front of the table top and rearwardly disposed terminal sections lying along opposed side edges thereof, said second U-shaped member having apertures therein adapted to receive said latching means for retaining said resilient member in stationary contact with said second U-shaped member.

2,658,555
SPRING CHAIR CONSTRUCTION
Paul L. Barker, Detroit, Mich.
Application January 31, 1951, Serial No. 208,756
2 Claims. (Cl. 155—54)



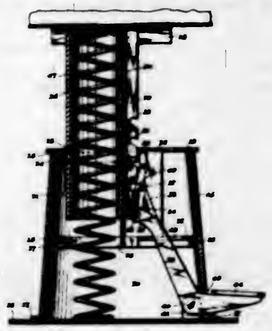
1. A chair comprising a pair of upright, S-shaped springs formed of a spring material and resilient in a vertical direction, a seat member comprising a back member and a bottom member, said back member being pivotally connected at each side thereof with an upper rear portion of each of said side frames, said bottom member being pivotally connected at each side thereof with a front portion of each of said frames intermediate the upper and lower ends of said frames, means pivotally connecting the rear edge portion of said bottom member with the adjacent bottom edge portion of said back member, said last mentioned means comprising studs passing through said adjacent edge portions and securing said back member to said bottom member, and resilient spacing members surrounding said studs and disposed between said adjacent edge portions, said resilient members normally spacing said edge portions apart.

2,658,556
CHILD'S SEAT
Harry Fleisher, Staten Island, and Jacob Homer, Grasmere, N. Y.
Application November 17, 1948, Serial No. 60,594
3 Claims. (Cl. 155—79)



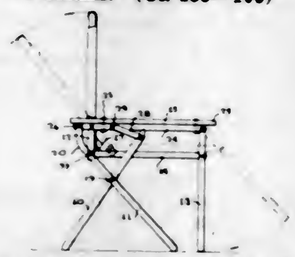
3. A child's seat as herein disclosed comprising a back member having vertically spaced openings and an attachable and detachable hanger for suspending said seat over the back of a chair or the like and comprising upright side portions connected together at the top to form an arch and the top of said arch bent backward in the shape of a hook to hang over the back of a chair or like support, said side portions having angularly extended lower ends arranged to enter selected openings of said vertically spaced openings in the back member to thereby support said back member at different selected levels of the chair back, and hook elements on the back member above said openings and positioned to embrace said side portions when the latter are engaged in said openings as described, whereby to removably secure said hanger to the back member in any of the several positions of vertical adjustment described, said openings being disposed at opposite side edges of said back member, said side portions of the hanger being laterally spaced to lie along said opposite side edges and the angled lower ends of said side portions being extended inwardly to enter in said openings at the opposite side edges of the back member and said hook elements including rearwardly and forwardly faced hooks on the opposite side edges of said back member and spaced one above the other a distance at least equal to the diameter of the side portions of the hanger whereby to admit said side portions with the hanger disposed in a horizontal position and whereupon said hanger may then be turned into an upright position with the side portions held between the rearwardly and forwardly faced hooks and the inwardly extended angled lower ends engaged in selected openings on the back member.

2,658,557
SEAT SUPPORT
Walter E. Nordmark and Donald S. Huhta, Grand Rapids, Mich., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application December 16, 1949, Serial No. 133,378
3 Claims. (Cl. 155—94)



3. In a seat structure: a base having a vertical bearing cavity therein of generally keyhole-shaped cross-section, each of the vertical walls at opposite sides of the keyway portion of said bearing cavity having a non-vertical slot therein in horizontal alignment with the slot of the other wall; a seat provided with a depending tubular column vertically slidable in the cylindrical bearing portion of said bearing cavity; a channel rack bar having its web secured to the tubular column and having its flanges extending forwardly into the keyway portion of said bearing cavity and vertically slidable therein with the column, each flange having a vertical series of teeth in horizontal alignment with the teeth of the other flange; a lever mounted pivotally about a horizontal axis on the lower forward part of the base and having a pedal arm extending exteriorly of the base and an operating arm extending rearwardly-upwardly between the flanges of said channel rack bar; a horizontal detent pin on the upper end of said operating arm and extending on both sides thereof for operative engagement with selected pairs of teeth on said channel rack bar's flanges for supporting the seat and its depending column in vertically adjusted position, the opposite extremities of said pin bearing in said slots in the vertical walls at opposite sides of the keyway portion of the bearing cavity for transmitting the seat load from the column to the base; and a compression spring within said tubular column urging the column and seat in an upwardly direction for counterbalancing the weight of the seat.

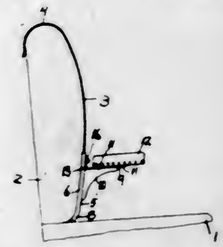
2,658,558
FOLDING CHAIR
Gustaf W. Carlson, Woburn, Mass.
Application September 7, 1951, Serial No. 245,545
4 Claims. (Cl. 155—106)



1. In a folding chair, an inner leg frame and an outer leg frame, said leg frames being U-shaped and involving bight portions and legs having free upper ends, said leg frames being crossed and legs thereof pivoted together, horizontal arms having rear ends pivoted to the upper ends of legs of said outer leg frame and forward ends, a U-shaped ground-engaging front frame involving a bight portion and legs having free upper ends pivoted to the forward ends of said arms, a horizontal U-shaped seat frame involving a bight portion and legs having free rear ends and forward ends, the forward ends of the legs of the seat frame being pivoted to the legs of said front frame at points spaced below said arms, and a vertical U-shaped back frame involving a bight portion and legs having free lower ends, the lower ends of the legs of the back frame being pivoted to the legs of the seat frame at points adjacent to the rear ends of the legs of the seat frame, means pivoting the legs of said back frame to said arms at points on said arms spaced forwardly from the pivotal connections of the rear ends of the arms with the upper ends of the legs of the outer leg frame and spaced upwardly from the pivotal connection of the lower ends of the back frame legs with the rear ends of the legs of the seat frame, and means pivotally connecting the upper ends of the legs of the inner leg frame to said arms.

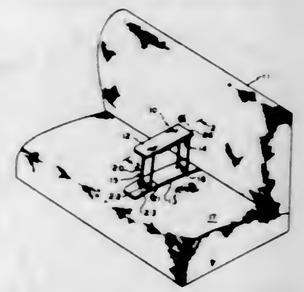
2,658,559
ARMREST FOR MOTOR VEHICLES
Nathan S. Beebe, Kansas City, Mo.
Application January 30, 1950, Serial No. 141,310
1 Claim. (Cl. 155—112)

An arm rest comprising a strap formed with a downwardly-facing hook at its upper end for engaging over the back of a seat and provided with a series of spaced bolt-receiving openings at its lower end, a sheath having inturned side edges slidingly embracing the edges and the rear face of the lower end or the strap and having a bolt-receiving-opening adjacent its upper end for



selective engagement with the strap openings, a bolt engaging registering openings in the strap and sheath, a support plate forwardly projecting from the sheath below the bolt, a gusset underlying and reinforcing the plate, and an arm rest carried by said plate with its top surface above the plane of the bolt.

2,658,560
ARMREST
Frank W. Cawthon, Weirsdale, Fla.
Application February 21, 1951, Serial No. 212,078
6 Claims. (Cl. 155—112)

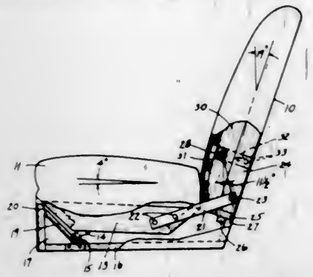


1. An armrest for use with an automobile seat having a seat portion and a back portion, comprising: an elongated lower member adapted to lie along the surface of the seat portion and to be clamped at one end between the seat portion and the back portion, two uprights hingedly attached at each end, respectively, to said lower member, an elongated upper member hingedly attached to the other ends of said uprights and adapted to assume a horizontal position spaced from said lower member and to press at one end against the said back portion of the seat, one of the said uprights being slightly shorter than the other.

2,658,561
CHAIR CONSTRUCTION
Daniel F. Caldemeyer and Howard M. Quakenbush, Evansville, Ind., assignors to National Furniture Manufacturing Company, Inc., Evansville, Ind., a corporation
Application October 12, 1950, Serial No. 189,873
5 Claims. (Cl. 155—116)

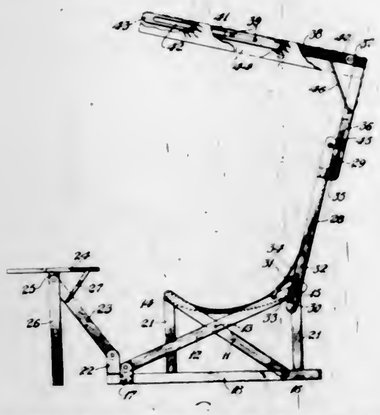
1. A chair construction of the character described comprising a chair frame including bottom and side arm portions, a seat unit disposed within said frame and movable to and fro

relative thereto, a back unit pivotally connected to said side arms, an elongated element rigidly connected adjacent one end to said seat unit and pivotally connected adjacent its other end to said back unit above said rigid connection and at a



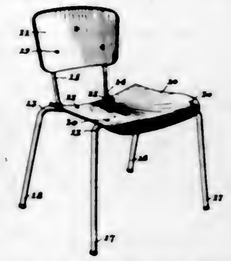
point normally rearwardly of and below said first mentioned pivotal connection, and an upwardly inclined member secured to said frame adjacent the front end of the bottom portion thereof, the front portion of said seat unit being movable upwardly and downwardly upon said member.

2,658,562
FOLDING CHAIR
Lucio Androsiglio, Hoboken, N. J.
Application June 30, 1948, Serial No. 36,211
2 Claims. (Cl. 155—124)



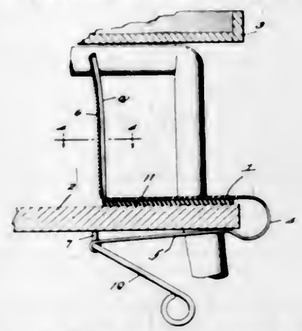
1. A folding chair comprising pairs of pivotally connected legs, said pairs having the upper ends connected by cross rungs, and their lower rear ends connected by a cross rung, a base frame pivotally connected with the pairs of legs at the lower front ends, said base frame having a slot for receiving the cross rung connecting the lower rear ends of the pairs, supporting members medially pivoted on the base frame and engageable with the upper cross rungs of the legs, back frame members pivotally connected with the legs and having their upper ends connected by a cross rung, table arms pivotally connected at their lower ends with the base frame, a table top pivotally connected with the upper end of each of the table arms, table legs depending therefrom, a web connected to the cross rung of the back frame members and extending downward and forward around the upper front cross rung of the legs and rearward to be connected to the rear upper cross rung of the legs.

2,658,563
CHAIR STRUCTURE
Walter E. Nordmark, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application November 5, 1951, Serial No. 254,929
3 Claims. (Cl. 155—186)



1. In a chair: a supporting structure having seat-supporting side parts and a downwardly bowed rear part, a seat comprising a sheet of springable material mounted on the side parts and secured thereto near the front of the supporting structure, and fastening means securing the rearward part of the seat to the downwardly bowed rear part of the supporting structure so that the rearward part of the seat is sprung into downwardly bowed conformity with said rear part of the supporting structure.

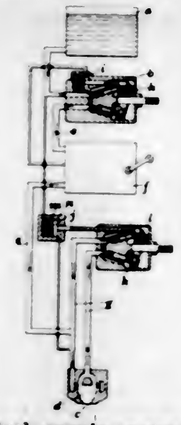
2,658,564
SAFETY DEVICE FOR HIGH CHAIRS OR THE LIKE
Clade D. Davis, Bisbee, Ariz.
Application February 8, 1950, Serial No. 143,113
1 Claim. (Cl. 155—189)



In a safety device for high chairs and the like, including a tray supported by the chair, a body comprising a strip of metal bent substantially L-shape, a substantially semi-circular portion forming a continuation of the free end of the horizontal portion of said body, a second horizontal portion forming a continuation of the free end of said semi-circular portion and underlying the first horizontal portion, said horizontal portions being adapted to be straddled over the center of the front edge of the seat of the chair and the vertical portion of the body extending upwardly from the inner end of the first horizontal portion and adapted to extend to a point beneath the rear center of the tray, an elongate clamp element rotatively carried by and disposed across the inner end of said second horizontal portion and engageable when rotated in one direction with the bottom of the chair seat to retain the device in place, the free end of the

said second horizontal portion having a central cutout, barrels formed at the free ends of the side portions of the cutout, and said clamp element having the form of a hand crank mounted for turning movements in said barrels with the cutout providing clearance for the crank portion thereof, said crank portion engaging with the bottom of the chair seat when operative to secure the device in place.

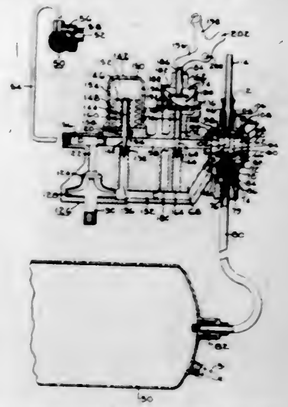
2,658,565
LIQUID FUEL SUPPLY SYSTEM FOR PRIME MOVERS OR FURNACES
Joseph John Righton, Acocks Green, Birmingham, England, assignor to Joseph Lucas, Limited, Birmingham, England
Application November 9, 1951, Serial No. 255,560
Claims priority, application Great Britain November 14, 1950
3 Claims. (Cl. 158—36.4)



1. A liquid fuel supply system for a prime mover or furnace comprising, in combination, a burner having a swirl chamber, a main fuel supply pump, a supply conduit between the main pump and the burner for supplying fuel to the latter, manually operable control means in said supply conduit, means forming a by-pass conduit between the swirl chamber and a point in the supply conduit between the manually operable control means and the burner, a pump in the by-pass conduit for returning excess fuel from the spill chamber, and means responsive to a fuel pressure difference in the system for reducing the rate of return flow in the by-pass conduit in accordance with an increase in the rate of supply of fuel to the burner and for increasing the rate of return flow in said by-pass conduit in accordance with a decrease in the rate of flow of fuel to the burner.

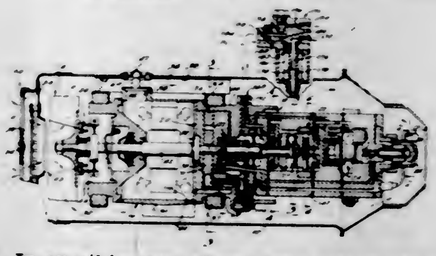
2,658,566
FUEL FEED AND POWER CONTROL DEVICE FOR GAS TURBINES
Emil O. Wirth and Frederik Barfod, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 20, 1945, Serial No. 611,599
13 Claims. (Cl. 158—36.4)

1. In a fuel supply system for a gas turbine engine having a burner therein adapted to receive air under pressure: a main conduit adapted to deliver fuel from a source to said burner, rotary means in said conduit for varying the pressure of the fuel in said conduit by an amount substantially proportional to the square of turbine speed, and governor means adapted to regu-



late said speed by regulating the quantity of fuel delivered by said conduit.

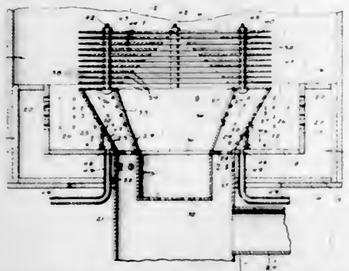
2,658,567
OIL BURNER
Robert R. Witherell, Bloomington, Ill., assignor to Eureka Williams Corporation, Bloomington, Ill., a corporation of Michigan
Application October 11, 1949, Serial No. 120,801
9 Claims. (Cl. 158—76)



1. In an oil burner, oil pumping means having an inlet and a discharge chamber arranged to receive oil discharged by said pumping means, a rotor in said chamber, said rotor having a valve chamber provided with a port which communicates with said discharge chamber, a valve seat within said valve chamber, a centrifugally response valve member movable in said valve chamber, upon rotation of said rotor, toward said valve seat to seat thereon and close said port, a communication between the interior of said valve chamber and said inlet, a fuel metering pump having its inlet communicating with said discharge chamber so as to be supplied with fuel therefrom, a motor driven shaft arranged for driving said fuel metering pump and said pumping means and rotor, said shaft being hollow and forming a part of said communication, an oil and air mixing nozzle, a fluid connection between said nozzle and the outlet of said fuel metering pump so as to supply fuel from said metering pump to said nozzle, means for supplying air to said nozzle, a pressure operated normally closed valve in said connection constructed and arranged to be opened by the liquid pressure in said discharge chamber, said port, valve chamber and communication forming a by-pass between said inlet and discharge chamber of said oil pumping means, said valve member when seated closing said by-pass, the

movement of said valve member towards said seat under the influence of centrifugal force being resisted by the fluid flow through said port.

2,658,568
PAN TYPE OIL BURNER
Paul A. Broady, Greenville, S. C.
Application October 10, 1950, Serial No. 189,325
2 Claims. (Cl. 158—91)



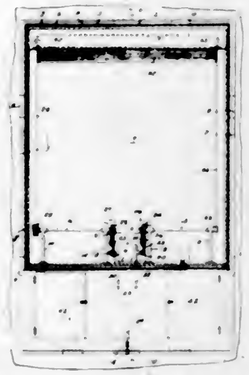
1. In a liquid fuel burner, an upwardly directed air duct having perforations in its side, a plurality of substantially flat spaced superposed plates arranged near and above the top of the air duct, the uppermost plate being imperforate, the other plates beneath the uppermost plate having central openings to receive the air flowing from the top of the air duct, the air being trapped below the uppermost imperforate plate and discharged radially outwardly in horizontal layers from the spaces between the plates, an oil pan of greater diameter than the air duct and plates surrounding the upper end portion of the air duct and having its top open and disposed adjacent to the top of the air duct, the oil pan having an outer side wall spaced radially outwardly of the peripheries of the plates and air duct, the oil pan and air duct defining an upwardly opening pilot combustion space, a fuel vaporizing ring surrounding the air duct at the bottom of the oil pan and spaced inwardly of the outer side wall of the pan and having radial vapor discharge openings disposed below the perforations of said air duct, and means to supply liquid fuel to the vaporizing ring.

2,658,569
BURNER MOUNTING FOR WARM AIR HEATERS
George E. Hughes and Edward Saurborn, Columbus, Ohio, assignors to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio
Application April 9, 1949, Serial No. 86,496
3 Claims. (Cl. 158—104)



1. In apparatus of the class described, in combination, a pair of burners each comprising a hollow and horizontally elongate burner head adapted to be arranged with its top side in a horizontal plane and having gas discharge ports in its top side and a mixing tube communicating with the interior of said burner head to discharge a mixture of air and gas thereinto, front and rear cross bars respectively secured to the front end of the mixing tubes and to the rear end of the burner heads to maintain said burners in spaced relation, a horizontally extending gas supply pipe parallel with said front cross bar and having a pair of forwardly discharging, spaced gas nozzles in the side thereof, support means for supporting said burners in spaced, gas receiving relation to said nozzles comprising a bracket mounted on said pipe between said nozzles and arranged to support said front cross bar at a point between the nozzles, and means supporting said rear cross bar.

2,658,570
COMBINED VACUUM SEALED WINDOW AND VENETIAN BLIND HOUSING
David Engel, Uniontown, Pa.
Application November 8, 1951, Serial No. 255,414
1 Claim. (Cl. 160—168)



A Venetian blind operating mechanism comprising stationary vertical bearing arms, horizontal shafts axially aligned, mounted in the bearings of the vertical bearing arms, an electric motor mounted within the space between said adjacent ends of the shafts, belts operating between the motor and horizontal shafts rotating said horizontal shafts, a lifting pulley secured to one of said shafts, a lifting cord operated by said pulley adapted to move the slats vertically, a slat tilting means including a pulley secured to the other shaft, and a slat tilting cord operating over said pulley of the slat tilting means, a normally loose inactive belt adapted to transmit rotary movement from said motor to the latter shaft and pulley, and electrically controlled means for tightening said normally loose belt on the pulley of the slat tilting means, operating said slot tilting pulley.

2,658,571
FOLDING DOOR CONSTRUCTION FOR WIDE DOORWAYS
Frederick A. Guth, Waverly, Ohio, and Harold F. Guth, Memphis, Tenn.
Application March 10, 1950, Serial No. 148,898
9 Claims. (Cl. 160—197)

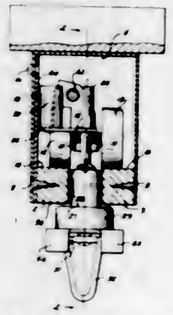
1. Door construction comprising inner, outer and intermediate slidably related door sections adapted to occupy an associated doorway, vertically spaced upper and lower horizontally extending stationary doorway guides for said sections, rollered supports movable lengthwise of said guides, pivot means uniting the central portion of each of said door sections at the ends thereof with said supports to effect movement of said sections in unison with said supports and to provide for turning movement of each of said

sections about a central axis, lost-motion link means coupling said sections for movement along said guides, said link means providing for independent limited sliding movement of a first section before movement thereof is imparted by its



link means to a next succeeding section, pivotal means linking the inner door section with a side of an associated doorway, and power-actuated cable means connected with said outer section for imparting doorway opening and closing movement to said sections.

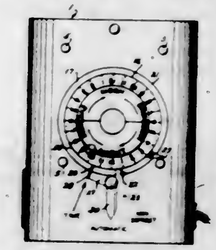
2,658,572
CURTAIN CARRIER DESIGNED TO OPERATE ON CURVED TRACK
Earl J. Vallen, Akron, Ohio
Application July 17, 1950, Serial No. 174,181
18 Claims. (Cl. 160—346)



1. A curtain carrier adapted to roll along a track formed of two spaced, parallel rails, which carrier comprises a frame, two spaced, rollers with horizontal axes in axial alignment rotatably mounted on said frame, said rollers being adapted to move along said rails, two pins supported by said frame and directed downwardly therefrom, one in front and one behind the axis of the rollers, and on each pin a guide roller adapted to move between the rails, one of said pins being tiltable with respect to the frame so as to facilitate the use of the carrier on a curved track.

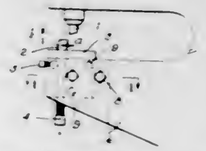
2,658,573
CONTROL DEVICE
John L. Harris, Whitefish Bay, Wis.
Application August 2, 1948, Serial No. 42,120
6 Claims. (Cl. 161—1)

1. In a timing mechanism, a timing motor arranged to rotate in a single direction at constant speed, means including an adjustable cam assembly normally rotated constantly and in a single direction by said timing motor, said assembly comprising a first cam having a substantially circular portion and a notch portion, said cam assembly also including a second cam having a lobe extending beyond the circular portion of the first cam, a cam follower arranged to ride both of the cams, biasing means for said cam follower, and means including switching mechanism operated by said cam follower, said switching mechanism being constructed and arranged to assume a first position when the cam follower drops into the notch of the first cam and to assume a second position when the cam follower is raised off the circular portion of the first cam



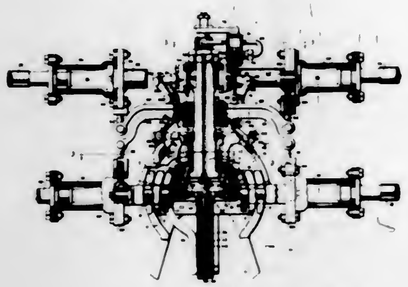
by the lobe on the second cam, said switching mechanism being further constructed and arranged to have a differential sufficiently wide to remain in its last position when the cam follower rides the circular portion of the first cam.

2,658,574
TOOL HOLDER, PARTICULARLY FOR SHEET-METAL WORKING MACHINES
Anders Ingemar Knutsson Slettengren, Goteborg, Sweden, assignor, by mesne assignments, to Aktiebolaget Svetsmekano, Goteborg, Sweden, a limited company of Sweden
Application July 8, 1948, Serial No. 37,684
Claims priority, application Sweden July 25, 1947
2 Claims. (Cl. 164—58)



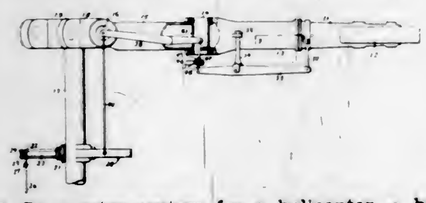
1. In a shearing machine having a pair of shearing tools provided with cutting edges cooperating rectilinearly on mutually parallel, laterally-displaced shafts, one of said tools being stationary and one of said tools being axially movable, whereby to effect a shearing action by the relative passage of the cutting edges of each tool, a tool holder comprising a unitary block having a top, a bottom and two pairs of opposite parallel sides, a seat in said block adapted to receive one of said tools, said seat being offset laterally of the central longitudinal axis of said block, and clamping means for securing said tool in said seat, a support having a slot open at one end for receiving said block, said support including an abutment surface engageable with one of the sides of a first of said pairs of sides and a setting member engageable with the opposite side of said first pair of sides to press the block against said abutment surface, and an adjustable stop element extending transversely of said slot and having a tapering surface engageable with one of the sides of the second of said pairs of sides for positioning said block relative to said support, said support being adapted to accommodate the block in two fixed positions angularly displaced by 180°, the central longitudinal axis of the block in both of said positions coinciding substantially with the longitudinal axis of the other of said tools, whereby the offset position of the tool in the block permits the tools to be automatically presentable in two different shearing positions.

2,658,575
HELICOPTER ROTOR
Piotr F. Lapidovsky, now by judicial change of name Peter T. Stone, Wilmington, Del.
Application July 17, 1946, Serial No. 684,373
7 Claims. (Cl. 170—135.26)



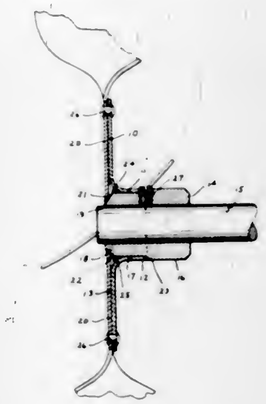
1. In a helicopter, a pair of supporting arms extending downwardly to the fuselage, a pair of cooperating gimbal rings pivoted between the upper ends of said arms, a supporting ring, pivoted within the inner ring of said pair of gimbal rings, a drive collar rotatably mounted within said supporting ring, a dome member driven by said collar, a lower set of helicopter blades carried by and driven by said dome member, an upwardly extending vertical shaft journaled in said drive collar, an upper set of helicopter blades carried by and driven by the upper part of said vertical shaft, a universal joint for driving said drive collar, a second universal joint at the same level for driving said upwardly extending shaft, said universal joints being at the same level as the axes of said pair of gimbal rings, means for driving said universal joints in opposite directions for thereby rotating the two sets of blades in opposite directions, the entire assembly being tiltable about the center of said two universal joints.

2,658,576
BLADE PITCH CONTROL MECHANISM
Vytautas S. Mosinskis, Philadelphia, Pa., assignor to Piasecki Helicopter Corporation, Morton, Del., a corporation of Pennsylvania
Application March 8, 1951, Serial No. 214,577
2 Claims. (Cl. 170—160.12)



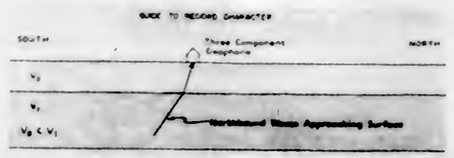
1. In a rotor system for a helicopter, a hub, an extension link pivoted for flapping to said hub, a pitch bearing member pivoted to said extension link, a rotor blade mounted on said pitch bearing member for pitch change about its longitudinal axis, a pitch horn mounted on said blade to move said blade about said axis, a control member pivotally mounted on said extension link, a rocking beam pivotally mounted on said drag link, a control link connecting the outboard end of said control member to the inboard end of said rocking beam on a line coincident with the axis of the pivot connecting said extension link and said pitch bearing member, the outboard end of said rocking beam being connected to the pitch horn of said blade, the inboard end of said control member being connected to the helicopter controls, said last connection normally being coincident with the axis of the pivot connecting said hub and said extension link.

2,658,577
COMPOSITE FAN HUB
Verner E. Sprouse, Columbus, Ind.
Application December 20, 1949, Serial No. 134,053
1 Claim. (Cl. 170—173)



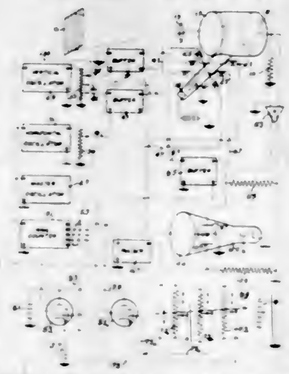
A fan mounting comprising a three step, cylindrical hub core having a major constant diameter rear end portion, a minor constant diameter front end portion, and an intermediate constant diameter portion between said major and minor diameter portions; a shoulder at the rear end of said minor diameter portion; a second shoulder at the rear end of said intermediate diameter portion; a hub neck having a bore therethrough substantially equal in diameter to said core intermediate diameter; said hub neck being entered over said core minor and intermediate diameter portions and surrounding said intermediate diameter portion only with the rear end of the hub neck abutting said second shoulder, the overall length of said hub neck axially of said core being substantially that of said intermediate diameter portion between said two shoulders; means operatively connected to said hub core for retaining said hub neck in abutment with said second shoulder; a fan spider having a central bore, receiving said core minor diameter portion therethrough to center the spider on the core; a member extending from said hub neck in a plane substantially normal to the axis of said core at said first shoulder; said spider bearing by its rear face against said hub neck member and also bearing against said first shoulder to have thrust of the spider taken through said hub neck against said second shoulder; and means securing the spider to said hub neck member.

2,658,578
SEISMIC PROSPECTING
Charles W. Oliphant, Tulsa, Okla.
Application October 5, 1948, Serial No. 52,858
3 Claims. (Cl. 181—.5)



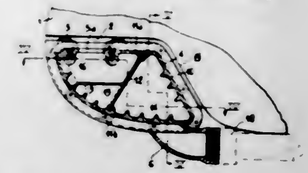
1. A method for the investigation of earth substrata which comprises establishing a single disturbance point in the area to be investigated, creating a seismic single disturbance at the disturbance point which includes the generation of longitudinal and transverse body waves, establishing a reception point for seismic waves at each of a plurality of spaced points removed from the single disturbance point but sufficiently close to the single disturbance point to receive energy from said disturbance point, and receiving at each reception point and recording as a function of time as separate indicia on a record the three principal and mutually perpendicular components of translational ground motion which said waves produce, together with the instant of their generation, said indicia completely describing the movements of each reception point in space as a function of time and said indicia being different in phase and amplitude for said longitudinal and said transverse body waves and serving to distinguish and identify them.

2,658,579
GEOPHYSICAL DISPLAY SYSTEM
Frank Rieber, deceased, late of New York, N. Y., by Lu Garda Rieber, executrix, New York, N. Y., assignor to Geovision Incorporated, a corporation of New York
Application August 17, 1949, Serial No. 110,744
20 Claims. (Cl. 181—.5)



1. Apparatus for the display of geophysical data recorded as a plurality of parallel phonographically reproducible tracks of variable light reactive value comprising a television pickup tube of the type wherein a beam of cathode rays is deflected in two dimensions to effect scanning of images projected on a photosensitive element incorporated within said tube, means for deflecting said cathode ray beam, means for projecting an image of said tracks on said element, a source of electrical oscillations of one frequency connected to said deflection means to scan said images longitudinally of said tracks, a source of electrical oscillations of a different frequency connected to said deflection means to scan said images transversely of said tracks, means also connected to said deflecting means for applying thereto pulses to deflect the scansion of each track longitudinally thereof during the interval when each separate track is being scanned, and means for varying individually the amplitude of the pulses applied to the separate tracks.

2,658,580
SILENCER FOR INTERNAL-COMBUSTION ENGINES
Fernand Trembley, Bellerive, Geneva, Switzerland, assignor to Societe de Recherches Techniques et d'Exploitations Industrielles, Geneva, Switzerland, a corporation of Switzerland
Application September 26, 1949, Serial No. 117,905
Claims priority, application Switzerland October 18, 1948
3 Claims. (Cl. 181—49)

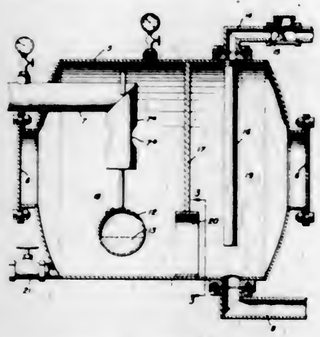


2. A muffler for an internal combustion engine mounted on a vehicle, comprising an elongated hollow body having thick walls of a metal which is a very good conductor of heat, a partition extending from one end of the hollow body to a region spaced from the other end thereof to divide the body into two longitudinally extending compartments communicating at said region, said body having inlet and outlet openings at said one end on opposite sides of the partition to effect longitudinal flow of gases serially through said compartments, a plurality of fins projecting into the hollow body from the inner surfaces of its longitudinally extending walls, said fins extending longitudinally of the hollow body and parallel to the direction of gas flow through the body, and a plurality of fins on the outer surface of the walls of the hollow body extending in a direction parallel to the direction of flow of cooling air over the outer surface of the hollow body due to travelling movement of the vehicle, the inner fins being provided to remove the greatest amount of heat possible from the exhaust gases in the hollow body for transfer to the outer fins and dissipation in the cooling air.

2,658,581
OIL TRAP FOR VACUUM LINES OF WELLS
Paul M. Rider, Wewoka, Okla.
Application August 30, 1951, Serial No. 244,437
1 Claim. (Cl. 183—2.7)

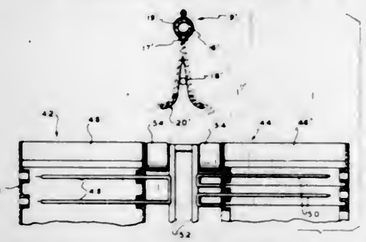
An oil trap for the suction line of an oil well and comprising a tank, a baffle plate extending from top to bottom of the tank separating the same into a first chamber and a second chamber at the opposite ends of the tank, said baffle plate having an opening in its lower portion to provide a restricted passage between the chambers, said first chamber having a suction line attached thereto at a point above the opening in the baffle and said second chamber having a vacuum line connected to its bottom and leading to the well, a valve housing at the inner end of the suction line and extending downwardly therefrom into

the first chamber, said valve housing having an opening in one side and a cup-like chamber in its bottom below said last named opening, a valve seat in the housing above said last named opening, a valve in the housing adapted to move upwardly into closed position against the valve seat, said valve being confined in the chamber at the bottom of the valve housing and out of the path of fluid entering the housing by way of the open-



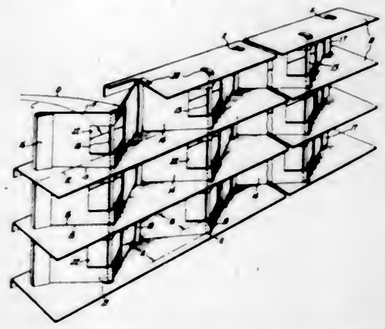
ing therein when the valve is in open position, a float in the first chamber and connected to the valve, a pipe leading from the top of the second chamber to remove oil therefrom, said pipe having a syphon tube extending downwardly therefrom into the second chamber to a point substantially in the horizontal plane of said opening in the baffle to syphon oil from both chambers by pressure of air built up therein, and a check valve in said pipe.

2,658,582
LIQUID WASHED ELECTRICAL PRECIPITATOR
Harry A. Wintermute, Plainfield, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application September 19, 1952, Serial No. 310,420
2 Claims. (Cl. 183—7)



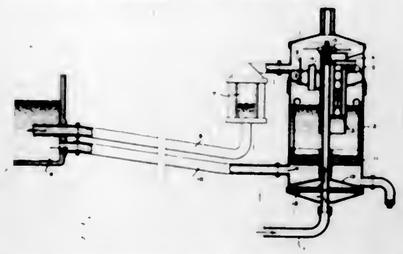
1. In an electrical precipitator including adjacent banks of vertically extending extended surface collecting electrodes and discharge electrodes complementary thereto, means directing a stream of gas to be cleaned between said electrodes and means for energizing said electrodes; electrode wash means comprising a liquid supply conduit positioned above and between said adjacent banks of extended surface electrodes, a plurality of spaced downwardly directed nozzle means communicating with the liquid supply conduit and liquid-actuated oscillatory deflector means associated with each of the nozzle means for directing substantially the entire stream of wash liquid intermittently to the adjacent banks of the extended surface electrodes.

2,658,583
STRUCTURAL MEMBER FOR GRILLES AND AIR FILTERS
Albert J. Fitzgerald, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application May 31, 1952, Serial No. 290,953
7 Claims. (Cl. 183—45)



1. In combination, a plurality of members positioned adjacent one another and having surfaces in parallel planes, a plurality of flexible elements extending transversely relative to each of said members and in engagement therewith at points distributed alternately on opposite sides of a line extending over the surface thereof thereby spacing said elements by a given distance, and a spacer disposed in woven relation with respect to said flexible members, including one pair of contact portions engaging opposed surfaces of said members and maintaining a predetermined spacing therebetween and including another pair of contact portions engaging a successive pair of said flexible elements and having a spacing other than said given distance thereby maintaining said elements in a flexed condition and in firm engagement with said members at said points.

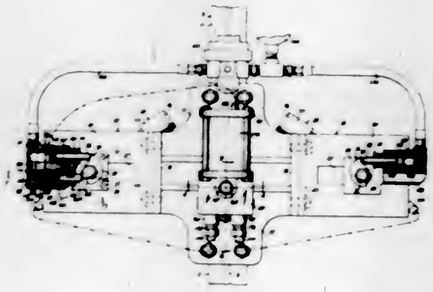
2,658,584
OIL CIRCULATION DEVICE
Ernst H. Mudersbach, Heidelberg, Germany, assignor, by mesne assignments, to Jarvis C. Marble, New York, N. Y., Leslie M. Merrill, Westfield, N. J., and Percy H. Batten, Racine, Wis., trustees
Application December 4, 1950, Serial No. 198,978
Claims priority, application Germany December 14, 1949
9 Claims. (Cl. 184—6)



1. The combination with a bearing lubricant well providing a reservoir lubricating a bearing at atmospheric pressure, of a system for circulating oil from and to said well comprising a vessel providing a main chamber for a reserve supply of oil at the same level as that of the oil

in said well, a first conduit connecting said chamber with the lower portion of said well, a second chamber located at a level above said main chamber, means forming an air lift pump for transferring oil from said main chamber to said second chamber, said chambers being in pressure equalized communication with the atmosphere, and a second conduit for returning oil by gravity from said second chamber to said well.

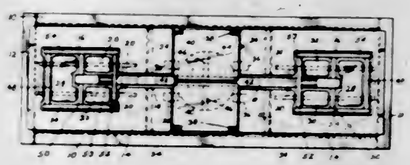
2,658,585
LUBRICATING APPARATUS
Victor G. Klein, Defiance, and Paul Walls, St. Louis, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application July 27, 1951, Serial No. 238,894
3 Claims. (Cl. 184—15)



1. Lubricating apparatus comprising a support, a lubricant-delivery coupler carried by the support for swinging movement on an axis transverse to the coupler, a fluid pressure cylinder on the support, a stop for the coupler slidable in the cylinder and held in an extended position by pressure in the cylinder and being movable away from extended position upon release of pressure in the cylinder, means biasing the coupler to swing toward an initial active position determined by the stop when in extended position, a lubricant injector for delivering lubricant to the coupler, fluid pressure means for actuating the injector, said fluid pressure cylinder and fluid pressure means being connectible in a fluid pressure system, and means controlling the supply of pressure fluid to said injector-actuating fluid pressure means operable in response to swinging of the coupler away from initial position for actuating the injector, said stop remaining in extended position as long as pressure is maintained in the system and being released upon cut-off of pressure to allow the coupler to swing to an inactive position.

2,658,586
LIFTING DEVICE
Harvard K. Hecker, University City, Mo., assignor to Curtis Mfg. Company, St. Louis, Mo., a corporation of Missouri
Application April 24, 1950, Serial No. 157,704
7 Claims. (Cl. 187—8.61)

1. In a lifting device that has a superstructure and that is adapted to be positioned in a pit in the floor of a building but is actuable to rise upwardly out of said pit and to extend above the level of that floor, a covering for said pit which comprises a cover plate, an opening in said plate, a slot contiguous with said opening, a frame that is secured to the underside of said plate and extends under said opening, and supporting pads supported by said frame, said supporting pads being disposed within said opening but being spacel from each other and from the edges of said opening to provide interconnected openings which can permit ready passage of one portion of the superstructure of said lifting device there-



through but which will resist passage therethrough of a man's foot, said supporting pads being substantially co-planar with said cover plate, said slot preventing the passage of a man's foot therethrough but permitting passage of another portion of the superstructure of the lifting device therethrough, said one portion of said superstructure being a reticule complementary to the said interconnected openings between said pads and between said pads and the edges of said opening, said other portion of said superstructure of said lifting device being a transversely-extending bar.

2,658,587
SLIDING DEVICE COMBINED WITH AUTOMATIC BRAKES FOR AUTOMOTIVE VEHICLES
Edmundo Duran Velazquez, Mexico City, Mexico
Application June 26, 1951, Serial No. 233,516
Claims priority, application Mexico July 1, 1950
9 Claims. (Cl. 188—4)

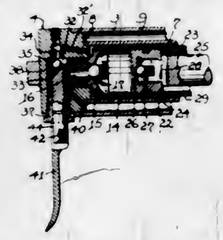


1. A brake for a vehicle having a chassis carried by dual wheels, comprising a crank pivotally mounted on the chassis adjacent the dual wheels thereof, said crank having parallel arms spaced the width of a tire with one arm disposed to fit between the dual wheels and the other adjacent the free side of one of the dual wheels, a pair of brake shoes on opposite sides of said one arm to engage the adjacent sides to the dual wheels and a single brake shoe on the other arm for engaging the free side of the adjacent wheel, said brake shoes being triangular in cross-section and conforming to the contour of the tires of the dual wheels, and means for swinging said crank to engage said brake shoes with the corresponding tires of the dual wheels.

2,658,588
ADJUSTABLE HYDRAULIC CONNECTING MEMBER

John A. Kanuch, South Euclid, Ohio, assignor to Great Lakes Manufacturing Corporation, Cleveland, Ohio, a corporation of Ohio

Application September 9, 1950, Serial No. 184,101
4 Claims. (Cl. 188—96)

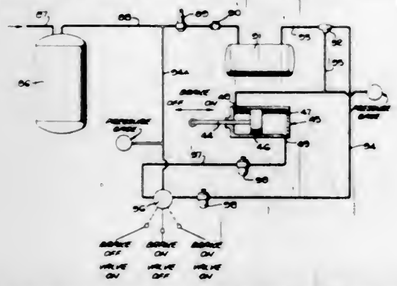


1. An extensible hydraulic connecting member comprising a cylinder, a piston in said cylinder, a check-valve-controlled passage in said piston arranged to effect unidirectional flow of liquid through said cylinder and piston, check-valve-controlled passage means connecting the opposite ends of said cylinder with each other and forming with said cylinder and said piston a liquid-circulating, pressure-resisting system and a manually operable valve member arranged within said passage means and including a manually shiftably mounted valve, and shifting means for said valve adapted to permit and prevent circulation of liquid in the liquid circulating system of the hydraulic connecting member when adjusting the length thereof and locking such member in its adjusted position.

2,658,589
AIR BRAKE FOR DRAWWORKS

Albert A. Ashton, Houston, Tex., assignor to Emsco Manufacturing Company, Los Angeles, Calif., a corporation of California

Application April 7, 1950, Serial No. 154,540
4 Claims. (Cl. 188—151)



1. A brake mechanism for a brake drum, comprising: a brake band operatively associated with said brake drum; a double acting fluid actuator connected to said brake band, operable in brake applying and brake releasing directions; a low pressure fluid source connected to operate said actuator in a brake applying direction; a high pressure fluid source; and control means for selectively connecting said high pressure source to said actuator so as to operate the actuator in said brake applying direction and thereby effect a forceful application of said brake band, or so as to oppose the action of said low pressure fluid and operate the actuator in a brake releasing direction.

2,658,590
EXPANDING EARTH ANCHOR

William L. Hollander, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri

Application September 25, 1951, Serial No. 248,250
3 Claims. (Cl. 189—92)

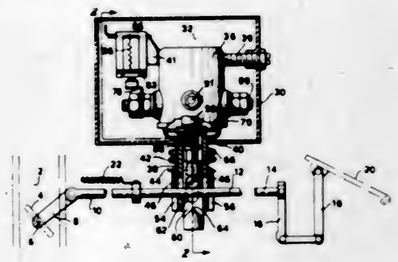


1. An expanding earth anchor comprising an expander member of sheet metal provided with a circular border and with an upwardly curved camming surface surrounding a central bore for receiving a guy rod, and a roughly conical blade assembly comprising three blade units formed of substantially rectangular elongated strips of sheet steel, each blade unit having a central aperture for the guy rod and the blade units extending at angles of 120 degrees to each other, the said blade units being cut away on each side adjacent the central aperture with four triangular cut-outs, leaving a substantially hexagonal tamping area surrounding said aperture and providing each blade unit with narrowed bending portions on the opposite sides of said tamping area, the blade units being bent downward at an obtuse angle at said bending portion to bring the blade units into the said roughly conical form with the inner surfaces of the ends of the blades engaging said expanding member.

2,658,591
THROTTLE CONTROL FOR AUTOMOTIVE VEHICLES

Lewis A. Mediar, Oreland, and Gerard A. Naab, Philadelphia, Pa., assignors to James C. Boyle, Toledo, Ohio; Charles S. Thompson, administrator of said James C. Boyle, deceased, assignor to Charles S. Thompson, as trustee

Application March 9, 1950, Serial No. 148,671
8 Claims. (Cl. 192—3)

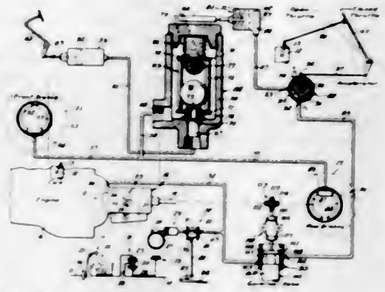


1. In combination in an automotive vehicle, an accelerator element, a spring urging said element in a direction to decrease speed, releasable means for holding said element in adjusted position against movement under the action of said spring, said means including an electromagnetic clamping device effecting said holding when energized, and means for deenergizing said device, the electromagnetic clamping device being mounted for movement by movement of said element against the action of said spring when said device is energized, and the last mentioned means including contacts opened upon such movement of the clamping device.

2,658,592
BRAKING SYSTEM

John B. Polomski, Jr., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application October 7, 1950, Serial No. 188,919
1 Claim. (Cl. 192—3)



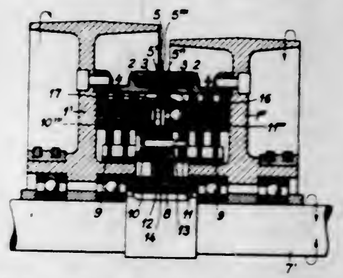
In an automotive vehicle, the combination of a vehicle driving motor, an accelerator for the motor, vehicle road wheels, means drivingly connecting certain of said road wheels and said motor and including a hydrodynamic coupling device which transmits an appreciable vehicle driving torque to said last-named road wheels at engine idling speeds, brakes for certain of said road wheels of the vehicle, a fluid pressure operated motor for engaging each of said brakes, a master cylinder hydraulically connected with said brake motors and including a manually actuated operator for producing a fluid pressure from said master cylinder effective on said brake motors for engaging the brakes, a centrifugal governor responsive to changes in speed of the vehicle, a check valve hydraulically connected between said master cylinder and said brake motors for freely allowing fluid pressure to be impressed on said brake motors from said master cylinder and when energized maintaining fluid pressure impressed on the brake motors originally produced by said master cylinder even though said master cylinder operator is deactuated, a hydraulic motor including a piston for energizing said check valve for rendering it effective when fluid pressure is applied to the piston and including a spring for deenergizing the check valve, a source of fluid pressure, and two valves connected in series with said check valve motor and with said source of fluid pressure, one of said valves being connected with said accelerator and the other valve being connected with said centrifugal governor whereby to connect said fluid pressure source with said check valve motor for energizing the check valve when the accelerator is in a closed throttle position and the speed of the vehicle is below a pre-determined value.

2,658,593
ELECTROMAGNETICALLY ACTUATED MECHANICAL DOUBLE-FRICTION COUPLING

Albert Doebeli, Le Locle, Switzerland

Application September 21, 1949, Serial No. 117,047
Claims priority, application Switzerland September 23, 1948
9 Claims. (Cl. 192—48)

1. In an electro-magnetically actuated mechanical double friction coupling, in which those couplings can be selectively put into and out of operation, two electro-magnets, friction surfaces, pressure body means composed of two pressure bodies acting on said friction surfaces, a single armature means lying between said two pressure bodies, and having only limited rotation with respect thereto, insertions movably mounted in one of said means, and having only limited rotation with respect thereto, conical recesses being formed in said insertions and in the other of said means, balls lying in said recesses and connecting said armature means with said two pressure bodies, and compression springs operably connected with said pressure bodies for disengaging them from the friction surfaces, so that,

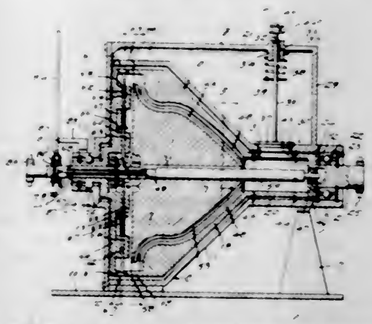


when one coupling is out of operation, the produced frictional force between magnet and armature means constitutes a preliminary coupling causing the movably arranged conical recesses to turn relatively to each other, whereby said balls will roll up in the conical recesses and the pressure body press the friction surfaces of this coupling against one another with a wedging effect, while the conical recesses with the interposed balls of the other coupling remain mobile and do not come to bear, so that the balls cannot roll up and the pressure body of this coupling does not press the friction surfaces.

2,658,594
TORQUE CONVERTER

Robert H. Brown, Pulaski, Tenn.

Application April 18, 1950, Serial No. 156,705
1 Claim. (Cl. 192—58)



In a torque converter, a casing of substantially conical form having its apex end terminating in a hollow cylindrical extension, a fluid reservoir extending laterally from the upper sides of said casing and the cylindrical extension, a hollow substantially conical outer rotary member having a hollow cylindrical hub extending from its apex end into the first extension, a shaft extending axially through said casing and said hub, a second substantially conical member within the first member and splined on said shaft for rotation therewith relatively to the latter member, a plurality of vanes on the opposed surfaces of

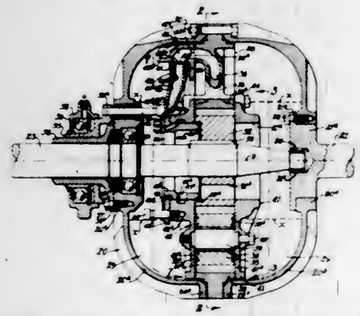
said members, said hub having a circumferential series of ports to establish communication between the same and said reservoir through an outlet port in the first extension for the passage of the fluid into and through the hub to said vanes, a control valve for said outlet port, the opposite end of the first member being closed by an end wall spaced from the adjacent end of said second member to form a fluid receiving chamber therebetween, said chamber having a circumferential series of outlet ports to establish communication between the same and the interior of said casing which is provided with an inlet port for the return of the fluid to the reservoir, a radially movable valve for controlling the discharge of the fluid from the chamber through each of said outlet ports, means on said shaft for actuating said radially movable valves, and selective means for driving said members one relative to the other.

2,658,595

VARIABLE SPEED HYDRAULIC CLUTCH

John R. Thomas, Wichita, Kans., assignor to Thomas Hydraulic Speed Controls, Inc., Wichita, Kans., a corporation of Kansas

Application May 25, 1950, Serial No. 164,269
5 Claims. (Cl. 192—61)



1. In a clutch of the character described including a revoluble pump and in which, during rotation of the pump, there is a zone of oil and a zone of air: the improvement which comprises elements spaced around the axis of rotation of the pump and projecting from one end and near the periphery of the pump, each such element having a valve seat parallel to and facing said axis and containing an inlet for fluids; an axially slidable member mounted adjacent said end of the pump; and radial, open-ended tubular, combined air and oil flow control devices on said member, each with its inner end disposed within the zone of air and its outer end engaging one of said seats to cover and uncover the inlet in that seat, depending on the position of said member along said axis, at least a part of each combined air and oil flow control device being movable radially and urged by a spring against its corresponding seat.

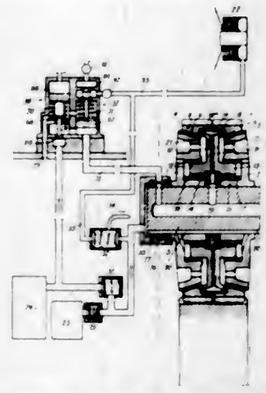
2,658,596

FLUID PRESSURE ENGAGED AND RELEASED CLUTCH

Jean Marcel Archambault, Asnieres, France

Application March 4, 1950, Serial No. 147,628
Claims priority, application France March 7, 1949
5 Claims. (Cl. 192—86)

1. A fluid operated clutch arrangement comprising, in combination, a rotatably mounted shaft; at least one circular first clutch member fixedly mounted on said shaft concentrically with the same so as to rotate therewith, said first clutch member having an outer surface portion; at least one second circular clutch member mounted concentrically about said first shaft and slidably in the axial direction thereof for movement toward and away from said first clutch member, said second clutch member having a surface portion located adjacent to the outer surface portion of said first clutch member so as to frictionally engage the same when said second clutch member is moved toward said first clutch member, and said second clutch member being formed with at least one bore passing therethrough and forming an opening in said surface portion of said second clutch member;



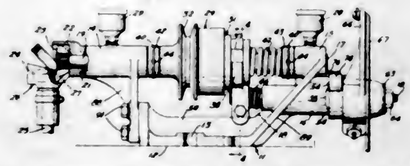
first fluid pressure means operatively connected to said second clutch member for moving the same away from said first clutch member so as to disengage said first and second clutch members; and second fluid pressure means operatively connected to said second clutch member for moving the same toward said first clutch member so as to engage said first and second clutch members, said second fluid pressure means communicating with said bore so that fluid will flow through the latter onto said surface portions of said clutch members when the latter are disengaged, the engagement of said surface portions closing said opening in said surface of said second clutch member to prevent the flow of fluid through said bore when said clutch members are engaged.

2,658,597

CAM RELEASED CLUTCH

Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois

Application May 11, 1948, Serial No. 26,317
2 Claims. (Cl. 192—92)



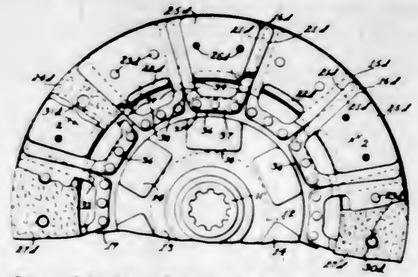
1. A shifter mechanism for a power driven clutch of the type having a frame and rotatable driving and driven elements movable relative to each other in an axial direction for clutching engagement and disengagement, said shifter mechanism comprising a shaft mounted on said frame for axial movement and connected to one of said elements for producing relative axial movement therebetween, said frame adjacent said shaft having high and low portions disposed coaxially of said shaft defining a fixed first cam means, lever means mounted on said shaft and movable between preselected positions, second cam means rotatably mounted on said shaft and engageable with said first cam means, ratchet means for drivingly relating said lever means and second cam means for only one direction of movement of said lever means to move said second cam means relative to said first cam means and to be disengaged by said lever means when the latter moves in the opposite direction, said second cam means in one position relative to the first cam means shifting said shaft axially to move said one element to a position in which it engages said other element and in the other position shifting said shaft axially to move said one element to a position in which it disengages the other member, and torsion spring means surrounding said shaft and connected between said lever means and said shaft for urging said lever means to a preselected one of its positions.

2,658,598

FRICTION CLUTCH PLATE

W. Vincent Thelander, Auburn, Ind., assignor to Dana Corporation, Toledo, Ohio, a corporation of Virginia

Original application March 11, 1949, Serial No. 80,855. Divided and this application April 11, 1950, Serial No. 155,272
18 Claims. (Cl. 192—107)



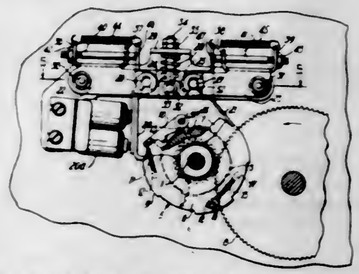
1. In a friction clutch plate, a hub member, two parallel series of flexible resilient cushion plate sections concentrically arranged relative to and mounted on said hub member to turn therewith, the cushion plate sections of both series being circumferentially spaced and the cushion plate sections of one series being arranged in staggered relation to the cushion plate sections of the other series, the cushion plate sections of the two series being arranged to be flexed toward one another to a more compact relationship and having adjoining lateral edge portions disposed in overlapping relation so as to be flexed to resist compacting of the two series of cushion plate sections, rings of friction facing material of appreciable width measured radially of the plate mounted on the outer sides of the two series of cushion plate sections in substantially parallel relationship thereto, and means in circumferentially spaced relation to each pair of overlapping edge portions spacing the cushion plate sections of at least one series inwardly from the ring of friction facing material mounted thereon, the width of overlap of the edge portions of the cushion plate sections measured circumferentially of the friction facing material being small enough so that only simple or springboard-like flexure of the overlapping portions can occur in the compacting of the cushion plate sections, the length of overlap of the edge portions of the cushion plate sections measured radially from one of the inner and outer diameters of the ring of friction facing material being a fraction of the radial width of said ring, so as to concentrate the clutch engaging pressure in a predetermined portion of the radial width of the friction facing material.

2,658,599

CLUTCHING MECHANISM

Hans P. Luhn, Armonk, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application November 25, 1949, Serial No. 129,365
2 Claims. (Cl. 192—149)



1. A wheel having teeth, a stop member engageable with one of the teeth to interrupt advance of the wheel, a keeper spaced from the stop member to engage another tooth to prevent reverse movement of the wheel, a fixed support, a pair of arms pivotally supported on said fixed support, said stop member and keeper each being pivotally mounted at the free end of a separate one of said arms, a linkage including said pivoted arms connecting said stop and keeper and arranged to variably adjust the spacing between the tooth contacting surfaces of said stop and keeper, and resilient means for normally maintaining said adjusted spacing, impact of the wheel against said stop causing the linkage to lessen said spacing against the action of said resilient means, whereby clearance is obtained between the keeper and related tooth, said resilient means acting upon stoppage of the wheel, to restore the stop and keeper to their initial spacing.

2,658,600

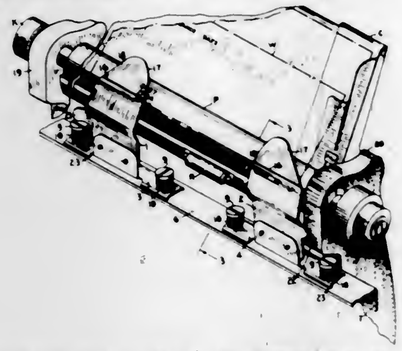
PAPER GUIDE FOR ACCOUNTING MACHINES

Howard M. Fleming, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Application February 23, 1950, Serial No. 145,761
3 Claims. (Cl. 197—127)

1. In printing tabulating means for accounting machines, the combination of a stationary member, printing devices, and a shiftable carriage having a platen mounted therein, with a plurality of cooperating spaced paper guides mounted on said stationary member each having converging cam edges arched away from the plane of said guides and mutually cooperable with said platen to guide and hold a work sheet in printing relation thereto, yieldable means securing said guides to said stationary member whereby the guides may move relatively to said carriage, a cam member on each of said guides comprising a forwardly bent lateral projection on the left edge below the guiding cam edge of one of said guides and a corresponding projection on the right edge below the guiding cam edge of

another of said guides, and means on said carriage cooperable with said cam members for



adjusting said guides to and away from said carriage each independently of the other.

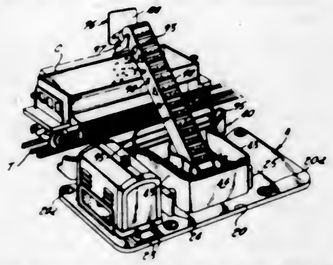
2,658,601
FRUIT GATHERING LADDER
Edward J. Sattler, Mineral City, Ohio
Application October 18, 1950, Serial No. 190,814
5 Claims. (Cl. 198—37)



1. In a fruit gathering ladder including side rails and longitudinally spaced rungs, a conveyor structure comprising an endless belt movably mounted intermediate the side rails and extending longitudinally thereof, both runs of said belt being positioned in front of said rungs, rigid flights hinged on the belt at longitudinal intervals and adapted to fold inwardly toward the belt, a tubular housing supported on said rungs on the front side thereof and enclosing both runs of said belt, said housing forming a front fruit gathering compartment extending around said flights in extended position, and said housing having longitudinally spaced front door openings for receiving fruit into said front compartment.

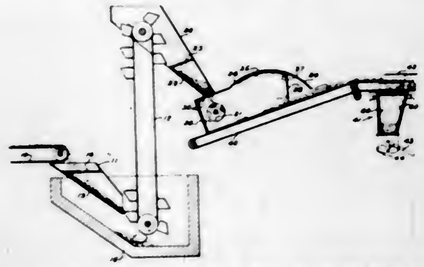
2,658,602
TOY CAR LOADER
Joseph L. Bonanno, Madison, and Abram Dale Gash, Jr., Irvington, N. J., assignors to The Lionel Corporation, New York, N. Y., a corporation of New York
Application December 23, 1949, Serial No. 134,758
26 Claims. (Cl. 198—55)

1. A toy loader for discrete particles such as toy coal or the like, comprising a base, a horizontal motor driven shaft supported above the base, a conveyor including a rigid beam and a conveyor belt, means to support the beam from the base, means to drive the conveyor from the shaft, a hopper having a discharge well into which the lower end of the conveyor belt enters, means to secure the hopper to the base for



vibratory movement relative to the base, the hopper having an extended bottom adapted to receive the particles, and hopper vibrating means operated concurrently with the motor driven shaft and effecting transfer of such particles across the bottom thereof and into the discharge well.

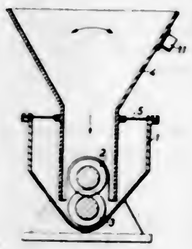
2,658,603
APPARATUS FOR HANDLING GRANULAR MATERIAL
Russell G. Fernald, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 28, 1950, Serial No. 141,145
9 Claims. (Cl. 198—57)



3. An apparatus for handling moistened granular material, which comprises a conduit having an entrance end and an exit end through which moistened granular material may be advanced, a liner composed of elastic material extending generally along the conduit, and exclusive means securing an end portion of the liner in a position in which the unsecured portion of the liner extends toward the exit end of the conduit, whereby the portion of the liner beyond the securing means is free to stretch and compress to dislodge granular material stuck thereto.

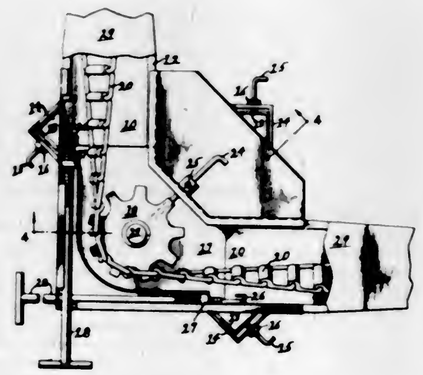
2,658,604
WORM FEEDER
Rudolf Erdmenger, Bergisch-Gladbach, and Peter Gassen, Koln-Buchforst, Germany, assignors to Farbenfabriken Bayer, Leverkusen, Germany
Application February 21, 1951, Serial No. 212,018
Claims priority, application Germany
February 28, 1950
4 Claims. (Cl. 198—64)

4. A worm feeder for adhesive material which is difficult to convey, comprising a charging hopper having a bottom discharge aperture, means to vibrate said hopper, a V-shaped receiving casing having side walls and a bottom apex positioned below said discharge aperture with its top in open communication with said aperture, feedscrews gripping one another rotatably supported along both sides of said receiving casing, said feedscrews closely fitting the



walls of said receiving casing, a central casing in communication with the apex of said V-shaped receiving casing, feedscrews gripping one another rotatably supported so as to project through the apex of said V-shaped casing and said central casing, said feedscrews fitting closely within said central casing, and a discharge tube at the end of said central casing removed from receiving casing.

2,658,605
CONVEYER
Richard A. De Witt, Zeeland, Mich., assignor to Automatic Poultry Feeder Company, Zeeland, Mich., a corporation of Michigan
Application June 15, 1949, Serial No. 99,169
4 Claims. (Cl. 198—168)



1. In a conveyor, the combination comprising: a trough having corners therein; said trough, between said corners, being open along its upper face; a vertical shaft at each of said corners; a rotatable sprocket on said shaft; a chain of of generally rectangular cross-section movable along said trough with one of the sides of greater dimension parallel to the floor of said trough; a roller mounted in said trough adjacent each end of each of said corners and above said chain; the axis of said rollers being parallel to the floor of said trough, for causing said chain to lie parallel to the floor of said trough before entering and after leaving each of said corners.

2,658,606
RETURN IDLER FOR CORD CONVEYER BELTS
William F. Bankauf, East Paterson, N. J., assignor to Hewitt-Robins Incorporated, Buffalo, N. Y., a corporation of New York
Application June 27, 1950, Serial No. 170,579
5 Claims. (Cl. 198—184)



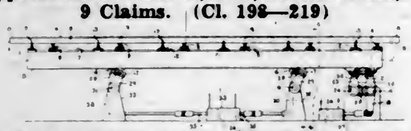
1. In a conveyor system including an endless belt, the improvement which comprises a pair of brackets disposed opposite to one another adjacent the lateral limits of the path of travel of the return run of the belt; axially aligned pivot supports for the brackets located below the said path of travel of the return run of the belt; a pair of parallel idler shafts also located below the said path of travel of the return run of the belt and supported by said brackets on opposite sides of the pivot axis of the brackets; spaced support idlers for the marginal portions of the under surface of the said lower run mounted adjacent the remote ends of one of the shafts; and spaced idler discs for supporting intermediate portions of the under surface of the said return run mounted on the other shaft intermediate the first-mentioned idlers.

2,658,607
CONVEYER BELT
John J. Moynihan, Chicago, Ill., assignor to Stavineer Corporation, a corporation of Illinois
Application January 2, 1948, Serial No. 316
6 Claims. (Cl. 198—189)



2. A conveyor system including a conveyor belt, said conveyor belt including a plurality of flight members, pins, and rollers; each of said flight members comprising a plane substantially rectangular sheet metal surface element and integral peripheral dependent elements substantially at right angles to said surface element; a first of said dependent elements being transverse to the direction of motion of the belt and including a tubular channel having its axis parallel to said surface element; further dependent elements arranged oppositely to one another and longitudinal to the direction of motion of the belt, said further dependent elements being offset to the plane of said surface element on the same side as said first element; said further elements being perforate coaxially with said tubular channel; said pins being located simultaneously within the perforations in said further elements and within the said tubular channels; and said rollers being rotatably mounted on said pins between said further dependent elements and said tubular channels.

2,658,608
CONVEYING APPARATUS
Frederick W. Wehmiller, Ladue, Mo., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri
Application October 26, 1949, Serial No. 123,562
9 Claims. (Cl. 198—219)



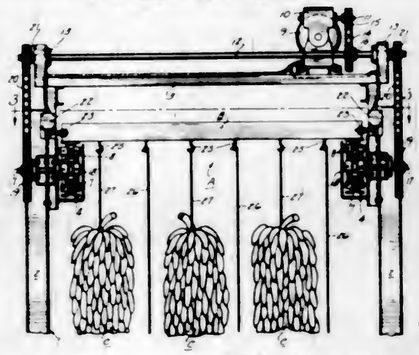
1. In a conveyor, a pair of load-carrying grates adapted to reciprocate in cyclic paths to impart a step by step movement to the load, and means for raising and lowering said grates to transfer the load from one grate to the other, the load being transfered from a descending grate to an empty rising grate, said raising and lowering means comprising a plurality of oscillatory supports for said grates, each of said oscillatory supports including a pair of seats united with each other so as to oscillate simultaneously, one seat of each pair being a support for one of said grates, while the other seat of the same pair forms a support for the other grate, the seats of each pair being separated from each other in their arcuate lines of oscillation, so that when one seat occupies an elevated position the companion seat of the same pair is in a lower position, and means for oscillating all of said oscillatory supports and hence all of said pairs of seats in their arcuate paths to lower the elevated seats and thereby lower the elevated grate, while raising the other seats to elevate the other grate, the united seats of each pair being moved simultaneously in their arcuate paths so as to impart a comparatively rapid initial upward movement to the rising empty grate, while imparting a relatively slow initial downward movement to the loaded grate, thereby transferring the load during said initial downward movement of the loaded grate.

2,658,609
DUAL MOTOR MATERIAL HANDLING DEVICE
Carl S. Weyandt, Homer City, Pa.
Application May 3, 1949, Serial No. 91,140
3 Claims. (Cl. 198—220)



1. A material handling device consisting of a base, a frame constructed symmetrically about a vertical axis and carrying a material handling device, a plurality of tuned spring means positioned symmetrically about said axis with their opposite ends attached to said base and to said frame to freely support the same for reciprocation in an inclined arcuate path of movement about said axis, a plurality of electromagnetic reciprocating motors independent of each other and each having an armature member and a field member to induce magnetic forces therebetween when energized by current impulses, mounting means for positioning each of said motor members in operative spaced relation to each other with one motor member fixed relative to said frame and the other member fixed relative to said base, said mounting means locating each of said motor members to centrally balance and to direct their magnetic forces at right angles to radii extending from said axis to be effective in imparting arcuate motion to said frame for reciprocating it in its inclined arcuate path of movement and in synchronism with the frequency of the current impulses to be effective in causing the material to flow in the material handling device in a path about said axis.

2,658,610
CONVEYER FOR BANANA BUNCHES
Raymond M. Winslow, Minneapolis, Minn., assignor to Winston and Newell Company, Minneapolis, Minn., a corporation of Delaware
Application March 22, 1951, Serial No. 216,929
4 Claims. (Cl. 198—232)

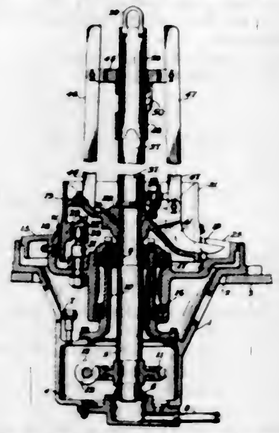


1. In a device of the class described, an inverted generally U-shaped frame defining an elongated passageway, said frame comprising generally upright supporting members and transverse members, a pair of laterally-spaced endless conveyor belts, means for mounting said conveyor belts to said frame one each on an opposite side of said passageway and in spaced relation to the ground for conveying movements of the upper flights thereof in parallel paths longitudinally of said passageway, the upper flights of said conveyor belts being downwardly-spaced from said transverse members and adapted to support the opposite ends of banana bunch-carrying beams extending transversely of said passageway, an electric motor mounted on one of said transverse members, a shaft extending transversely of said frame and mounted for rotation therein overlying said belts, drive connections between said motor and the intermediate portion of said shaft, independent drive connections between opposite ends of said shaft and one of said belts, a pair of control switches secured to said frame one each adjacent the delivery end of said belts and connected in series with said motor, each of said switches having lever arms lying in the path of travel of the beams carried by said belts and engageable one each with an opposite end of said beams, said lever arms being biased toward positions to close their respective switches whereby to initiate movements of said belts, said lever arms being movable by engagement with said beams to open their respective switches and terminate said movements.

2,658,611
WIRE DRAWING BLOCK AND STRIPPER ASSEMBLY
Edwin J. McIlvried, Stow, Ohio, assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio, a corporation of Ohio
Application November 21, 1950, Serial No. 196,806
6 Claims. (Cl. 205—20)

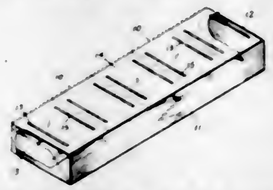
6. In wire drawing mechanism including a rotatable wire drawing block, the combination

of an annular apron closely encircling said block and mounted for rotation about an axis at a



slight angle to said block, and resiliently flexible means interconnecting said block and apron for rotation of said apron with said block.

2,658,612
MULTIPLE-UNIT PACKAGING ASSEMBLY
Joseph V. Necas, Tuckahoe, N. Y., assignor to P. Lorillard Company, New York, N. Y., a corporation of New Jersey
Application June 15, 1950, Serial No. 168,347
2 Claims. (Cl. 206—45.33)



1. A packaging assembly for a multiplicity of cigarette packs including in combination a multiplicity of cigarette packs each having large parallel front and back faces, relatively narrow parallel ends and relatively narrow parallel edges, said packs being edgewise abutted to form a flat narrow column, a paperboard strip member of substantially the same width as the edges of said packs and disposed in longitudinal alignment with the column to overlie one end of each pack, said strip having upturned end portions to overlie at least a part of each end of the column of packs, a cellophane overwrap folded around the strip member and overlying at least a portion of the front and back faces of each of said packs, said overwrap being closed at the column ends and open on one edge to form a container exposing one end of each of said packs, and means forming a separable bond between said overwrap and portions of the opposing front and back faces of each of said packs, said column being constrained by said strip member against bending in the plane containing the strip member and against bending in the plane normal to the strip member and parallel to the faces of the packs by the bond between said overwrap and each of the individual packs and by the longitudinal compression afforded by said overwrap holding said packs in edgewise abutment.

2,658,613
NOSE OR EYE DROP PACKAGE
Lloyd I. Volckening, Glen Ridge, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application May 29, 1952, Serial No. 290,719
1 Claim. (Cl. 206—63.2)

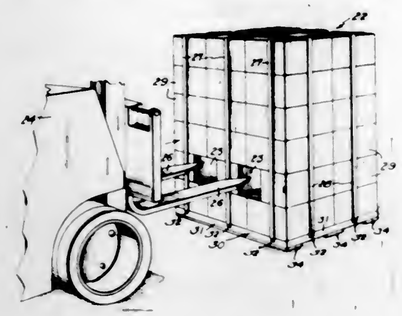


In combination an approximately flat first envelope having walls of flexible packaging material and containing liquid such as a nose or eye drop composition, a second approximately flat thin envelope having flexible walls separate from said first envelope, a dropper enclosed within said second envelope and comprising a flexible-walled straight tube having its wall pressed into a seal at one end for dispensing the liquid in the first envelope, a flexible cover having a fold at one marginal portion, both said first and second envelopes being secured at corresponding ends to and held together solely by the cover in said fold, the other ends of the envelope being free of the cover and there being means to facilitate tearing of said flexible walls adjacent the second mentioned ends of the envelope to open said envelopes while the envelopes are supported by said cover at said corresponding ends, the sealed end of said dropper being disposed adjacent the second-mentioned end of the second envelope, said cover also having a flap foldable about the first and second envelopes and receivable by said marginal end portion to hold the flap against unfolding.

2,658,614
BANDED PACKAGE AND METHOD OF FORMING THE SAME
Ernest W. Van Patten, McLean, Va.
Application January 22, 1947, Serial No. 723,472
4 Claims. (Cl. 206—65)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A unitary package comprising a first plurality of units positioned in side-by-side relation and forming a first horizontal layer generally rectangular in plan, a second plurality of similar units forming a second horizontal layer resting on and supported by said first layer, said second layer being of the same external dimensions in plan as said first layer but having the units thereof arranged to form at least two horizontal, parallel and horizontally-spaced passageways opening through at least one side of said layer, a third layer of units similar to said first layer and resting on and supported by said second layer, all said layers collectively forming a rectangular parallelepiped, and tensioned band means extending externally about all said units and bind-

ing said units into a unitary package, said passageways being available for the insertion of the



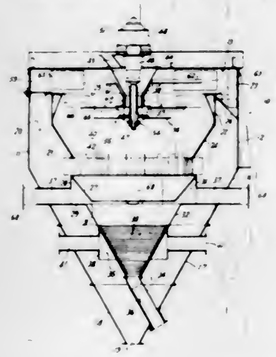
tines of a lifting device to lift said package as a unit.

2,658,615

SEPARATOR DRYING METHOD AND APPARATUS FOR MOISTURE CARRYING MATERIAL

George B. Ebersole, Westfield, N. J., assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey

Application March 19, 1949, Serial No. 82,382
12 Claims. (Cl. 209—11)



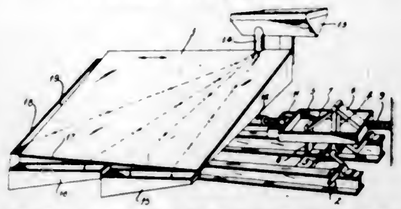
1. Means for treating moisture-containing pulverizable material comprising means for separating fine material from the remainder of the material; means forming a heat exchange zone; means for cascading an elongated annular stream of separated coarser particles of the material through said heat exchange zone; means for circulating a gaseous medium in heat exchanging relation through the cascading coarser particles in the initial section of said zone; and means operative, in a further section of said zone, to direct an additional and annular stream of gaseous medium, at a substantial initial pressure and velocity, in the same general initial direction as and in a relatively elongated path through the stream of coarser particles to scrub fines from such coarser particles; said circulating means reversing the direction of flow of such stream, as the initial pressure and velocity of such stream are substantially dissipated near the downstream end of such further section, to draw such stream centrally through said zone to said separating means to remove from such stream the fines scrubbed from such coarser particles.

2,658,616

PROCESS FOR CLASSIFYING IRON SHOT

Milo J. Stutzman, Kansas City, Mo., assignor to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware

Application April 14, 1950, Serial No. 155,905
4 Claims. (Cl. 209—112)



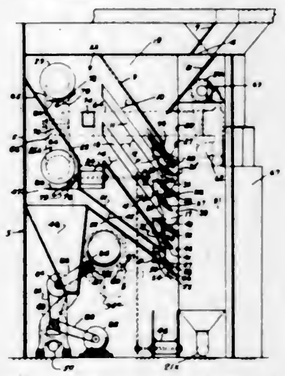
1. In the art of classifying iron shot of similar size into spherical fractions and less spherical fractions, the process comprising rolling all the shot freely across a smooth surface which inclines in at least one direction at from 1° to 10° with the horizontal, subjecting the shot while rolling upon the surface to a force acting in a direction transverse to the inclination of the surface, and collecting shot at different positions along the lower edge of said surface, said spherical fraction being collected at a position reached by shot which roll substantially perpendicularly to said force, and said less spherical fraction being collected at a position reached by shot which roll more obliquely with respect to the direction of said force.

2,658,617

TOBACCO CLEANER AND CLASSIFIER

Lorne A. Rowell, Lachine, Quebec, Canada, assignor to Imperial Tobacco Company of Canada, Limited, Montreal, Quebec, Canada

Application February 4, 1950, Serial No. 142,436
1 Claim. (Cl. 209—137)



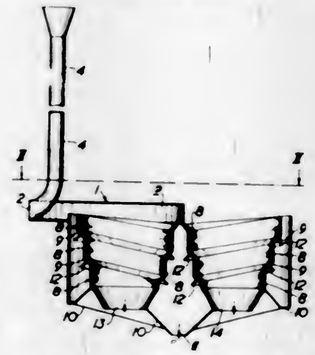
A pneumatic cleaning and classifying machine of the character described, comprising a plurality of superimposed inclined pneumatic classifying chambers having inlet openings at their lower ends and discharge openings at their upper ends, means for conducting a flowing stream of the material to be classified downwardly past the inlet openings of said classifying chambers, a plurality of pairs of jet nozzles through which high velocity jets of air are directed against the down flowing stream of material to project particles of said material into said classifying chambers where certain of the particles thus delivered to the separating chambers are separated from the other particles and pneumatically conveyed to and through the discharge openings of said chambers, each of said classifying chambers including a bottom wall having the upper surface of its lower end portion concavely curved and the nozzles of each pair being arranged one above the other opposite the inlet opening of one of said classifying chambers with the upper nozzle arranged to direct an upper jet of air directly into the material-receiving space between the top and bottom walls of the classifying chamber and the lower nozzle arranged to direct a jet of air against the concavely curved surface of the bottom wall of the classifying chamber.

2,658,618

SEPARATION OF SOLID MATERIALS OF DIFFERENT SPECIFIC GRAVITIES

Walter Vogel, London, England

Application April 26, 1950, Serial No. 158,118
Claims priority, application Great Britain July 14, 1949
11 Claims. (Cl. 209—173)



1. In an apparatus for separating solid discrete particles of different specific gravities by a sink and float process involving the use of a heavy liquid formed by solid discrete particles suspended in a liquid, the density of the suspension being intermediate to that of the particles to be separated, the improvements comprising a guide member including a passage way in form of an open curve and having an inlet and an outlet end, pressure means for projecting tangentially into the inlet end of said passage way a continuous stream of a mixture of said particles to be separated and said heavy liquid for generating centrifugal field forces by the velocity of said stream and the curvature of said open passage way, thereby forming within said stream during the passage thereof through said passage way an outer part containing the denser portion of the solid particles and some of the liquid and an inner part containing the less dense of the solid particles and the remainder of the liquid, separating means disposed adjacent to the outlet end of said passage way for dividing the stream into said outer part and said inner part, and filtering means for separately filtering each of said parts to separate the solid particles contained therein from the liquid.

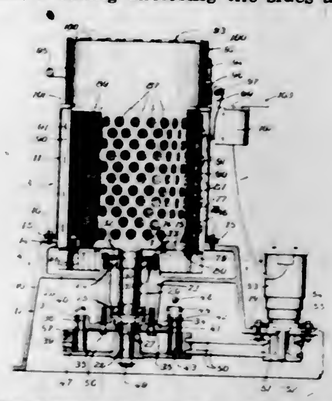
2,658,619

CENTRIFUGAL DRIER

Warren H. Nobles, St. Paul, Minn.

Application September 15, 1948, Serial No. 49,360
2 Claims. (Cl. 210—66)

1. A dryer including a rotatable receptacle provided with a plurality of apertures in its side walls, means rotatably supporting said receptacle on a generally vertical axis, a receptacle bottom having an opening therethrough, a centrifugal blower including angularly spaced vanes subjacent the bottom of the receptacle and rotatable therewith, a casing enclosing the sides and bot-



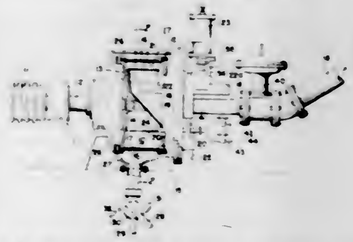
tom of the receptacle, a portion of the casing tapering to form a volute encircling the vanes, and said casing having an outlet communicating with said volute, rotation of said receptacle and blower acting to draw air downwardly through said receptacle and through said volute to said outlet.

2,658,620

SEPARATION OF LIQUID FROM SOLIDS

Walter C. Davis, Tredyffrin Township, Chester County, and Wilmer H. Bath, West Conshohocken, Pa., assignors to The Sharples Corporation, a corporation of Delaware

Application March 19, 1948, Serial No. 15,776
4 Claims. (Cl. 210—67)



1. In a centrifugal machine for separating liquid from solids having a rotor, a valve controlling the feed of a mixture of liquid and solids into said rotor, a perforated wall in said rotor for the discharge from said rotor of liquid centrifugally separated therein from solids, means for discharging solids from said rotor, the combination of a rinse conduit to supply rinse fluid into said rotor, a valve in said rinse conduit to control the flow of rinse fluid, first electro-mechanical means controlling said rinse conduit valve to open it after the solids have been discharged from said rotor and to close it after a predetermined period of rinsing, second electro-mechanical means set in motion by said first means, said second means controlling said mixture feed valve to open said feed valve after said rinse conduit valve has been closed and to close said feed valve after a predetermined time of feeding mixture into the rotor, third electro-mechanical means set in motion by said second means, a second rinse valve, said third means controlling said

second rinse valve to open it after said feed valve has closed and to close it after a predetermined period of rinsing the solids in said rotor, fourth electro-mechanical means set in motion by said third means after completion of said rinsing of said solids, said fourth means controlling said means for discharging solids from said rotor to operate said solids discharge means after said solids have been subjected to centrifugation for a predetermined period and to render said discharge means temporarily inoperative after said solids have been discharged, and an electro-mechanical means operative to by-pass said first electro-mechanical means for a predetermined number of feed and discharge cycles, said electro-mechanical cycle-counting means acting when said first electro-mechanical means is by-passed, to set in motion said second electro-mechanical means after said solids have been discharged.

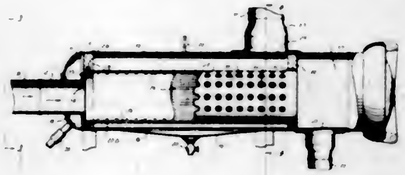
2,658,621
APPARATUS FOR CLEANING FILTER SCREENS
Agnew H. Bahnson, Jr., Winston-Salem, N. C.
Application June 13, 1950, Serial No. 167,710
6 Claims. (Cl. 210—152)



1. Filter apparatus comprising a tank having a partition member extending longitudinally thereof intermediate the tank side walls and dividing the interior of the tank into a pair of tank sections through which liquid is adapted to flow; a filter placed crosswise of the direction of liquid flow in each tank section; a liquid inlet to both sections on the upstream side of the filters; a liquid outlet from both sections on the downstream side of said filters; each said tank section including a pair of dams erectable respectively on the upstream and downstream sides of said filter to isolate that portion of the tank interior between the said two dams from the remainder of the tank interior, a normally closed drain disposed between said filter and the dam upstream therefrom, a valve controlled flushing device disposed between said filter and the dam located downstream therefrom for directing a flushing fluid through the filter in a generally upstream direction, means for erecting said dams and opening said drain and for lowering said dams and re-closing said drain, and means opening the valve on said flushing device when said dams are erected; and control means operating the dams of each tank section in sequence such that the dams of only one section are erected at any one time thereby cleaning the filter of one tank section while the other remains in operation.

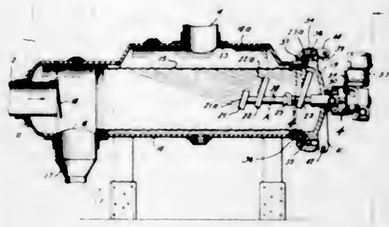
2,658,622
FLUID CLEANING APPARATUS
Homer E. Thornhill, Houston, Tex., assignor to Thornhill-Craver Company, Houston, Tex., a corporation of Texas
Application December 3, 1949, Serial No. 131,017
7 Claims. (Cl. 210—167)

1. A cleaning apparatus including an elongate vessel closed at its ends and having an inlet, an outlet, and a drain disposed laterally of said vessel, a tubular screen eccentrically disposed with respect to said vessel between said inlet and outlet and having one end thereof opening toward said drain, a transverse partition in said vessel adjacent said inlet forming a chamber between said partition and that end of the vessel adjacent said inlet, a plurality of nozzles disposed in said partition concentrically with respect to said inlet and further disposed at an



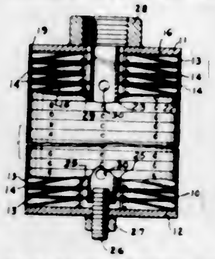
acute angle with respect to the interior surface of said screen and at an angle relative to the longitudinal axis of said screen, and cleaning fluid means separate from said inlet and in communication with said chamber and nozzles to discharge a concentrated stream of cleaning fluid through and upon the interior surface of said screen and out of the end of said screen which opens toward said drain to sweep foreign matter from said screen into said drain.

2,658,623
FLUID CLEANING APPARATUS
Homer E. Thornhill, Houston, Tex., assignor to Thornhill-Craver Co., Inc., Houston, Tex., a corporation of Texas
Application April 30, 1951, Serial No. 223,745
3 Claims. (Cl. 210—167)



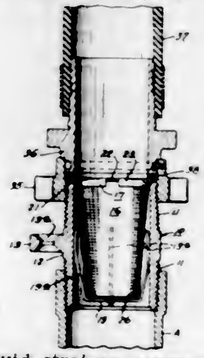
1. A cleaning apparatus including, a vessel having an inlet, an outlet and a drain, a tubular screen between said inlet and outlet and having one end opening toward said drain, that end of the vessel opposite the drain being open, a hinged closure for closing the open end of the vessel, and a spray head assembly mounted on the closure and extending into the vessel adjacent that end of the screen opposite the drain, said spray head assembly including a tubular rotatable shaft disposed axially of the screen, spray heads mounted on said shaft at an inclination with respect to the axis of the shaft, each spray head having nozzles which are inclined with respect to the internal surface of the screen, and means for supplying fluid to the tubular shaft and spray heads whereby concentrated streams of fluid are directed onto the interior surface of the screen and also whereby the fluid moves longitudinally through the screen to the drain.

2,658,624
FILTER
Arthur D. Redner, Farmington, Mich., assignor to General Filters, Inc., Detroit, Mich., a corporation of Michigan
Application August 7, 1948, Serial No. 43,122
3 Claims. (Cl. 210—169)



1. A filter separator element comprising an annular disc integrally formed from sheet metal of uniform gauge, said disc having an annular central opening and an annular perimeter, a flange at the center opening extending axially in one direction, a similar flange at the outer periphery extending in an opposite direction, the surface of the disc being inclined axially from the center to the outer periphery, the respective flanges terminating axially at a distance equal to the axial inclination of the disc surface, a plane ring surface formed at the base of each flange, a radially extending lip formed at the terminal end of each flange, each lip forming a plane ring surface in substantially the same plane as the ring surface at the base of the other flange and in axial alignment with the plane surface formed at the base of its own flange, the axial extremities of said disc providing thereby inner and outer axially aligned ring surfaces lying respectively in two planes extending perpendicular to the axis of said disc and forming the axial boundaries thereof, radial openings being provided in the respective flanges for fluid flow therethrough.

2,658,625
HEADER STRAINER FOR LIQUID LINES
Arthur W. Rafferty, Sacramento, Calif.
Application August 2, 1948, Serial No. 42,063
4 Claims. (Cl. 210—170)



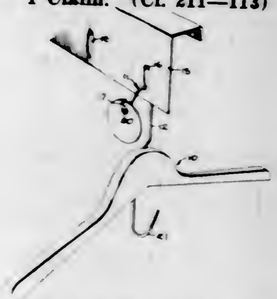
2. In a liquid strainer assembly, an inverted frusto-conical mesh strainer cup having at its open top a radially outwardly extended flange, said flange having a diametral crossbar, said cup having a mesh bottom in a plane substantially parallel with and of lesser diameter than the top of the cup, a transverse diametral crossbar extending across the bottom of the cup and fixed to the said bottom of the cup, the opposite end portions of the crossbar being extended and bent over at the smaller end of the cup and extending along the cup in the direction of the larger end of the cup providing at the lower end portion of the mesh cup and exterior thereof a plurality of elongated resilient spring members relatively spaced about the circumference of the cup.

2,658,626
TIE RACK
George R. Arsenault, Webster, Mass.
Application March 12, 1952, Serial No. 276,133
2 Claims. (Cl. 211—89)



2. A tie rack comprising a support for securement to a door or wall, a single supporting bracket on the support and extending outwardly therefrom at right angles thereto, a central single opening in the bracket forming a double leg formation, a series of elongated flat unitary cross arms slidable on the double leg formation toward and away from the support, said cross arms extending out laterally of the double leg formation, and a spring located in the supporting bracket between the legs of the double leg formation, said spring being connected only to the cross arm located farthest from the support and causing all the cross arms to yieldingly contact each other and the innermost cross arm to contact the support.

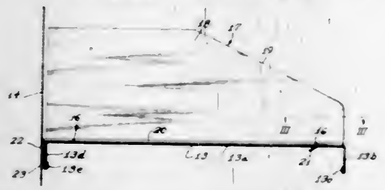
2,658,627
GARMENT RACK WITH HANGER RETAINING MEANS
Raymond A. Magnuson, Chicago, Ill., assignor to R. A. Magnuson and A. Magnuson, copartners, doing business as Vogel-Peterson Co., Chicago, Ill.
Application September 9, 1950, Serial No. 184,015
1 Claim. (Cl. 211—113)



In a garment rack, the combination of a horizontal hanger rail comprising an elongated bar disposed in a vertical plane and having one or more openings therein, a garment hanger having a suspension hook comprising a shank portion extending vertically from the midportion of the hanger and a short portion inclined downwardly and outwardly away from the shank portion for insertion through an opening in the bar and forming with the shank portion a downwardly opening hook, and a retaining member having a hole therein, said downwardly extending hook portion having its free end bent reversely to form

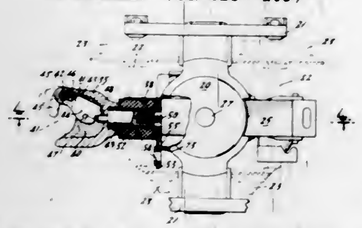
an upwardly opening hook adapted to receive the retaining member upon insertion of such hook through the opening in the bar whereby the member coacts with the bar and the hook to prevent accidental removal of the hook through the hole in the bar, said opening in the bar being dimensioned to permit passage therethrough of the hook for supporting the retaining member when the member is removed therefrom.

2,658,628
ADJUSTABLE SHELF DIVIDER
Theodore J. Hilgen, Aurora, Ill., assignor to Aurora Equipment Company, Aurora, Ill., a corporation of Illinois
Application July 7, 1950, Serial No. 172,452
2 Claims. (Cl. 211—184)



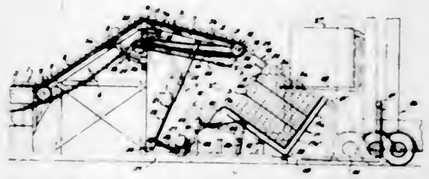
1. In a shelf assembly, a sheet metal shelf having opposite edges, a shelf divider having an upstanding divider flange and an angular lower marginal flange extending throughout substantially the length of said upstanding divider flange and engageable flatwise upon the top of the shelf, said angular flange having adjacent one end thereof a downwardly directed narrow tapering tongue sloping obliquely generally toward the opposite end of said angular flange, said shelf having a small aperture adjacent to one of its edges within which said tongue is retainingly engageable by engaging the edge defining said aperture remote from said edge of the shelf, and a depending flange on said opposite end of said angular flange engageable retainingly with the opposite edge of said shelf, said edge of the aperture engaged by said tongue and said opposite edge of the shelf being spaced apart relative to the spacing between the portion of the tongue engaging said aperture edge and the inside face of said depending flange to compel resilient clamping engagement of the tongue and depending flange with said aperture edge and said opposite shelf edge.

2,658,629
COMBINED TRUCK AND COUPLER FOR TOY RAILROADS
Frank Pettit, Union, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application November 16, 1946, Serial No. 710,355
2 Claims. (Cl. 213—109)



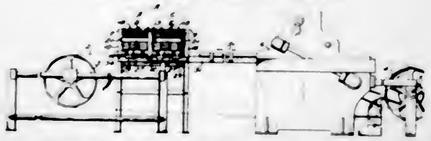
1. A coupler for toy railroads comprising a coupler head having a bifurcated end, a knuckle receiving recess opening toward said end, an axially-disposed plunger having an end entering the bottom of the recess, a relatively soft spring protracting the plunger, a knuckle pivoted to one of the bifurcations of the coupler head and having a latch arm extending lengthwise of the recess and engageable with the plunger end to hold it against movement and a coupling arm extending toward the other bifurcation so as to couple with the similarly placed corresponding arm of another coupler, and a knuckle spring acting on withdrawal of the plunger to swing the knuckle and move the latch arm past the end of the plunger and the coupling arm out of coupling position, the first spring being readily yieldable and the plunger having sufficient mass to shift against the first spring when its movement is suddenly stopped whereby the plunger may be thereby withdrawn from engagement with the knuckle.

2,658,630
LUMBER STACKING DEVICE
Thomas N. Melin, Los Angeles, Calif.
Application August 23, 1947, Serial No. 770,290
11 Claims. (Cl. 214—6)



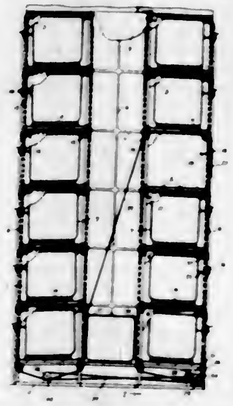
1. In a lumber-stacking apparatus, the combination which comprises: means defining a lumber-receiving rack upon which a stack is to be formed, said means defining a platform arranged in an inclined plane; means for delivering a plurality of boards to said rack in an inclined plane substantially parallel to said first-named inclined plane, said last-named means including a delivery member adapted for physical engagement upon the adjacent edge portion of the stack being formed, whereby the inclined plane of delivery of such boards is maintained substantially unchanged up to the point of delivery of such boards into stacking position; and means for elevating said delivering means to cause the same to deliver boards to the position of said rack in successively elevated planes substantially parallel to said first-named inclined plane.

2,658,631
APPARATUS FOR FEEDING CLEATS TO BOXMAKING MACHINES
David G. Kingsley, Mountain Lakes, N. J., assignor to Stapling Machines Co., Rockaway, N. J., a corporation of Delaware
Application March 31, 1951, Serial No. 218,643
9 Claims. (Cl. 214—8.5)



1. Apparatus for dispensing cleats of at least two different lengths to a box-making machine of the type having cleat pushing elements movable along a path and a cleat supporting track below said path to support cleats moved by said elements, said apparatus comprising a cleat hopper including upstanding side and end guides for confining against lateral and longitudinal movement cleats stacked generally above and in alignment with said cleat supporting track for successive removal of said cleats from the bottom of such stack by said cleat pushing elements, the end guide at the trailing ends of the cleats in said stack having near its lower end a cleat engaging surface projecting into said hopper in position to engage the trailing ends of the longer cleats in approximately the third-from-bottom position in said stack, and the end guide at the leading ends of the cleats in said stack having its lower end positioned to engage and prevent the forward movement from said hopper of all but the bottom cleat of said stack and having near its lower end a recess to receive the leading ends of the longer cleats when said leading ends reach the second-from-bottom position in said stack and allow said cleats to be forced forwardly over said cleat engaging surface as their trailing ends move downwardly so that their trailing ends will clear said cleat engaging surface and drop into the path of said cleat pushing elements as the cleats reach the bottom of said stack.

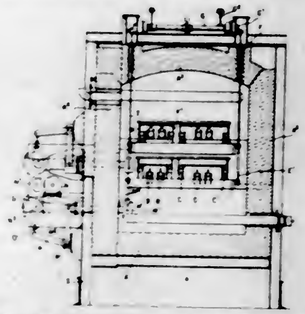
2,658,632
MECHANICAL AUTO PARK
Frank J. Baume, Bakersfield, Calif.
Application December 11, 1947, Serial No. 790,977
3 Claims. (Cl. 214—16.1)



1. In a parking structure for cars, the combination with a frame section forming an elevated storage compartment having a supporting track, of a car-cage supported on the track, a pair of endless conveyor chains anchored on one side of the cage and guides in the frame section and in the compartment for said chains, an equalizing cable anchored on the opposite side of the cage, guides for the cable mounted in the frame section and a counterbalancing weight suspended on the cable and motor operated mechanism for activating the endless conveyor chains.

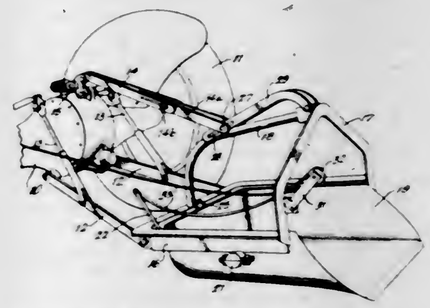
2,658,633
WORK CONVEYER FOR HEAT-TREATING FURNACES
Walter H. Holcroft, Detroit, Mich., assignor to Holcroft & Company, Detroit, Mich., a corporation of Michigan
Application November 24, 1952, Serial No. 322,278
5 Claims. (Cl. 214—18)

1. In a heat treating furnace provided with step by step work advancing means of the walking-beam type including parallel, stationary and movable rails with means for imparting to the latter a cyclic movement in a vertical plane having advancing and returning portions respectively above and below the level of said stationary rails; members on opposite sides of all of said



rails spaced from the ends of the work pieces when supported upon and extending transversely across said rails, and means for periodically imparting a transverse reciprocating movement to said members to abut the opposite ends of and endwise shift said work pieces to center the same on said rails.

2,658,634
SCOOP FOR TRACTORS
Ralph D. Waller, Macomb, Ill., assignor to Stockland Road Machinery Co., Minneapolis, Minn., a corporation of Minnesota
Application February 12, 1948, Serial No. 7,839
4 Claims. (Cl. 214—140)



1. A scoop adapted to be mounted on a tractor comprising a scoop unit including a vertically extended frame and a scoop shell carried by the lower part of the frame and terminating at one end in a cutting edge, vertically spaced connections on the frame above the level of the cutting edge when the frame and scoop shell are in a normal level digging position, the lower connection formed for pivotal connection to a tractor drawbar with the cutting edge facing outward from the tractor, a link pivoted on the upper connection and lying above the frame for vertical swinging movement and formed at its free end for pivotal connection to a tractor top link, and a part on said link engageable with the frame to limit downward swinging of the link toward the frame to a position in which a horizontal line of force passing through the cutting edge will pass below the lower connection to the scoop frame so that the scoop shell and frame tend to tilt upward about the cutting edge, the link being free to swing upward when it is placed in compression

effectively to shorten the top connection to the tractor so that the scoop shell and frame can swing downward about the cutting edge to a position in which a horizontal line of force passing through the cutting edge will pass above the lower connection to the frame.

2,658,635

LOAD LIFTER ATTACHMENT FOR TRACTORS

Noral A. Nelson, Royal Oak, Mich., assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application March 13, 1948, Serial No. 14,763
6 Claims. (Cl. 214—140)



1. In a front-end loader for a tractor having a pivotally mounted, vertically swingable draft linkage trailed from its rear portion and elevatable by a main hydraulic actuator on the tractor supplied with pressure fluid from an engine-driven pump, the combination of a load elevating device having means for detachably supporting the same on the fore portion of the tractor for generally vertical swinging motion, a tension connector pivotally connected to said elevating device at a point above the latter's axis of swing and extending generally rearward and downward therefrom, said tension connector having an axially contractible auxiliary hydraulic actuator interposed therein and operable upon supply of pressure fluid to shorten the overall length of said connector, a rigid link adapted at one end portion for pivotal connection to the tractor in substantial alinement with the axis of vertical swing of said linkage and in depending relation thereto, a tension member adapted at its rearward end portion for pivotal connection to the trailing end of said linkage, means for pivotally interconnecting the depending end portion of said rigid link, the forward end portion of said tension member and the rear end of said tension connector for applying an upward swinging force to the load elevating device upon upward swing of the draft linkage, and conduit means for supplying pressure fluid from the pump on the tractor to said auxiliary actuator.

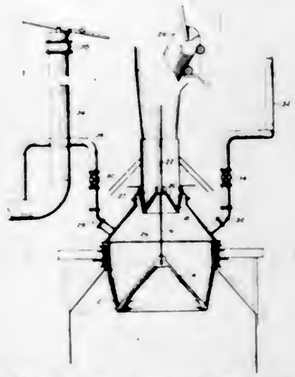
2,658,636

METHOD OF CONTROLLING PRESSURE BETWEEN BELLS OF BLAST FURNACES

Waring Lennox Dawbarn, Winchester, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts

Application June 14, 1949, Serial No. 98,938
2 Claims. (Cl. 214—152)

1. The method of charging a blast furnace which is operating under high top pressure, said furnace being provided with a top having a single bell chamber provided with a single upper bell and a single lower bell, which comprises the steps of supplying charge to said upper bell, equalizing the pressure between said chamber and the atmosphere and then while said pressure is equalized immediately opening the upper bell to discharge its load into said chamber, then closing said bell and substantially simultaneously shutting off communication between said chamber and the atmosphere, entrapping within said chamber gases escaping from the furnace top into said chamber through any cracks and worn places in the seat between said lower bell and its hopper when both of said bells are closed, repeating said steps until an adequate body of charge has accumulated in said chamber, said lower bell remaining closed during the aforementioned steps, then, immediately prior to opening the lower bell and while the upper bell is closed, putting said chamber into communication with



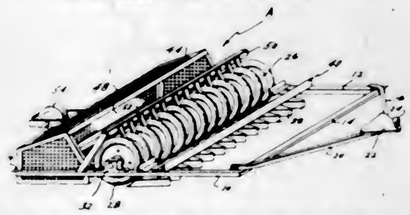
a source of gas at a pressure substantially equal to, but not greater than, the pressure in the furnace top, opening the lower bell to discharge its load into the furnace while maintaining said communication open and said upper bell closed, closing said lower bell and thereafter cutting off said communication with said source of gas, and thereafter repeating the entire series of steps hereinabove set forth.

2,658,637

GOLF BALL RETRIEVER

Art Bailey, Philadelphia, Pa.

Application September 1, 1949, Serial No. 113,584
2 Claims. (Cl. 214—356)



1. A golf ball retriever comprising a frame, an axle shaft mounted upon said frame, a plurality of ground wheels fixed a definite distance apart and having resilient rubber type of tires mounted thereon, said rubber type of tires being axially spaced thereon a distance sufficient to admit a golf ball between any adjacent wheels, and a spacer between each such pair of resilient tires to limit the inward penetration of the golf ball between the rubber-type tires.

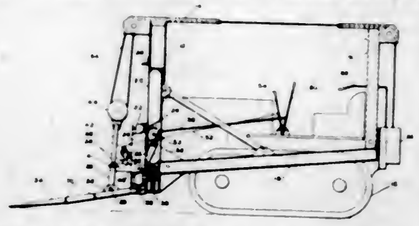
2,658,638

WOOD GATHERING APPARATUS

Jarvis G. Sartin, Hattiesburg, Miss., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application February 18, 1949, Serial No. 77,131
2 Claims. (Cl. 214—706)

1. In an elevator-type material handling vehicle, the combination of an elevator carriage having a fork pivotally attached thereto and vertically swingable with respect thereto between load-supporting and load-releasing positions and forming, when in load-supporting position, a lifting cradle capable of vertical motion as a unit, manually releasable detent means for locking said carriage in lowered position, means for actu-



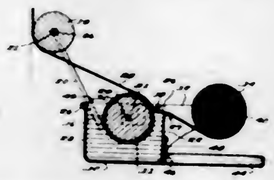
ating said detent means, lifting means acting on said fork for urging said carriage upwardly and for imparting upwardly swinging motion to said fork to form a cradle while said carriage is locked in lowered position, a releasable catch for locking said fork in cradle-forming position with respect to said carriage and means for actuating said catch.

2,658,639

WALLPAPER HANGER

Walter Goldberg, Jersey City, N. J.

Application May 2, 1951, Serial No. 224,235
3 Claims. (Cl. 216—6)



1. A wall-paper hanger comprising an elongated receptacle open at the top, a paste applying roller having its ends journaled in said receptacle, means for supporting a roll of paper on one side of the receptacle, means for holding paper from the roll in contact with the paste applying roller, an adjustable mounting bracket rotatably mounted on the ends of said receptacle, means connecting the ends of the bracket for retaining them in fixed relation to each other, a plurality of paper applying rollers mounted on said bracket and extended from the side of the receptacle opposite to that on which the paper roll is positioned, and a handle extended from said receptacle.

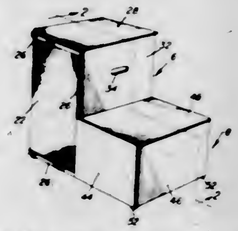
2,658,640

CHILDREN'S HAMPER WITH STEPS COMBINED

Donald C. Bayles, Adams, Wis., assignor of forty-nine per cent to Robert H. Soucek, Friendship, Wis.

Application July 17, 1950, Serial No. 174,165
1 Claim. (Cl. 217—5)

For use by children, a light-weight portable step-stool having a clothes hamper incorporated therein and forming a part thereof, said step-stool being unobstructedly hollow throughout and comprising a main framework embodying a horizontal top frame, vertical supporting legs attached at their upper ends to the corner portions of and depending from said frame, said legs being spaced apart, a one-piece bottom having marginal edge portions joined to and interconnecting the lower portions of said vertical legs, a portion of said bottom projecting at right angles beyond two of said vertical legs, an inverted U-shaped frame of a height appreciably less than the height of said main framework, said U-shaped frame having a horizontal cross-piece and vertical legs, the lower ends of said legs being joined with marginal edge portions of said bottom and said cross-piece being on a plane well below the plane of the top frame, said bottom having its edges notched to receive said vertical legs with the legs projecting below the plane of said bottom as feet, said U-shaped frame being spaced beyond said main frame, ventilated rear and side



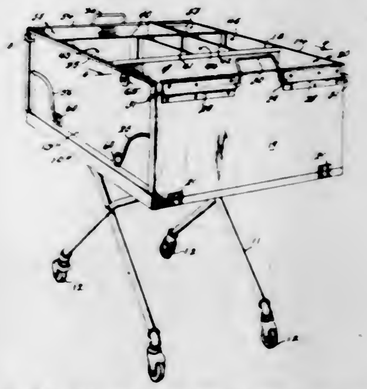
vertical walls enclosing said main framework and attached to cooperating ones of said vertical legs, solid front and side walls attached to and enclosing said U-shaped frame with said side walls attached to lower half portions of two of the adjacent vertical legs, a solid horizontal top wall mounted on the cross-piece of said U-shaped frame and having its marginal edge portions seated on the upper edge portions of said solid front and side walls, a solid lid hinged on and covering said horizontal top frame, and a vertical front wall attached to the upper portions of the front legs of said main framework and having its lower end resting on the adjacent inner end portion of said horizontal top wall and also having a hand-hole therein.

2,658,641

LAUNDRY HANDLING RECEPTACLE

Willis A. Pellerin, New Orleans, La., assignor to Pellerin Milnor Corporation, New Orleans, La., a corporation of Louisiana

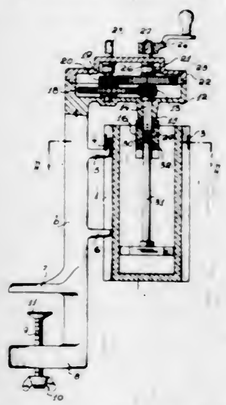
Application April 4, 1950, Serial No. 153,805
4 Claims. (Cl. 217—7)



3. A device for facilitating the processing of clothing and other articles in a laundry compris-

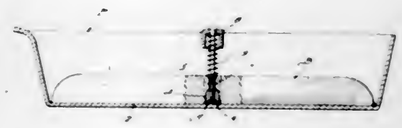
ing a receptacle having a bottom and side wall elements and provided with at least one partition dividing said receptacle into a plurality of open-topped compartments, one of said side wall elements being hinged to said bottom to swing on a horizontal axis between a normal vertical position and a horizontal position substantially flush with said bottom, the side wall elements adjacent said hinged side wall element being stationary and being provided adjacent the latter with vertical channeled flanges, locking means carried by the normally upper edge portion of said hinged wall element and including hooks movable inwardly over the top of and back of said flanges to lock said hinged side wall element in normal vertical position, each of said flanges having an aperture, a quadrant rod connected at one end to said hinged wall element adjacent each side edge thereof and slidable in said apertures, each rod having at its other end an element engageable back of the associated flange for limiting movement of said hinged wall element to horizontal position, and a laundry receiving container generally corresponding in horizontal cross-sectional shape and size to the compartment of which said hinged wall element forms one wall whereby, when such wall element is in said horizontal position, said container may be slid outwardly thereonto to be closed.

2,658,642
RECEPTACLE AND SUPPORT THEREFOR
Horacio Rafael Casella, Buenos Aires, Argentina
Application October 3, 1950, Serial No. 188,144
Claims priority, application Argentina November 15, 1949
2 Claims. (Cl. 220—1)



1. In an agitating device, in combination, an elongated receptacle having a bottom wall at one end and a tubular wall, said tubular wall being formed with a plurality of spaced longitudinally extending indentations forming elongated projections on the inner surface of said tubular wall, and elongated grooves on the outer surface of said tubular wall; a holding member secured to the outer surface of said tubular wall adjacent to the other end of said receptacle and extending across at least one of said depressed portions so that between the outer surface of said tubular wall and the inner surface of said holding member an eye is formed; a supporting column extending substantially parallel to said tubular wall and having a first projection projecting towards said receptacle and being formed with a hooked end portion extending parallel to said supporting column and to said tubular wall of said receptacle and passing into said eye so that said receptacle is supported adjacent said one end thereof on said first projection, said supporting column having a second projection spaced from said first projection and projecting towards said receptacle, said second projection being located adjacent said bottom wall of said receptacle and projecting into the one of said grooves in said outer surface of said tubular wall corresponding to said eye.

2,658,643
COOKING APPLIANCE
Marie B. Miller and Howard J. Miller, Pasadena, Calif.
Application August 9, 1951, Serial No. 241,026
2 Claims. (Cl. 220—22)



1. A device for dividing a cooking receptacle into separate cooking areas, said device comprising two elongate members of equal length and having upright side faces, each member having a flat bottom face to rest flat upon the bottom of the cooking receptacle, one of said members having a slot formed transversely of the top midway between its ends and through half of its height, the other member having a corresponding slot formed transversely of its bottom midway between its ends and extending through half of its height, the mid portion of each member fitting in the slot of the other member to couple the members in perpendicular relation with the bottom faces in a common plane, an elongate coupling and pivot pin extending vertically through the said mid portions and through the slots, said pin having a length greater than the combined heights of the two members whereby one of the members may be elevated and turned to a position above and parallel with the lower member, and spring means for yieldingly maintaining the members in the said coupled relation.

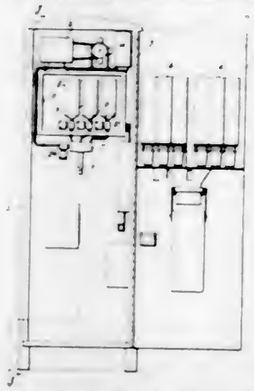
2,658,644
APPARATUS FOR PROPORTIONING MATERIALS
Rudy Lowe, Cranston, R. I., assignor to Proportioneers, Inc., a corporation of Rhode Island
Application December 10, 1947, Serial No. 790,918
6 Claims. (Cl. 222—52)

1. An apparatus for proportioning a plurality of materials, comprising a plurality of stations for the different materials, a controller at each station for controlling the quantity of material fed at its station, a master controller for all of the first said controllers and manually adjustable to pre-set the rate at which a particular combined quantity of materials is to be fed from said stations, said controller at each station being manually adjustable to pre-set the quantity of material fed at its station at a predetermined proportion relative to the said predetermined combined quantity of material fed from said stations, a differential mechanism at each station for controlling the quantity of material fed at its station at the predetermined setting of the controller of the station, each of said controllers at said stations being responsive to any change in setting of the master controller and automatically operable to control the differential of its



station so as to maintain the said pre-set proportion of material fed at its station.

2,658,645
DISPENSING MACHINE FOR BEVERAGES HAVING PLURAL INGREDIENTS
George S. Harris, Jr., Newton, Mass., assignor of fifty per cent to Edwin M. Thomas, Milton, and twenty-five per cent to James N. Muldoon, and twenty-five per cent to Doris C. Harris, trustee, Newton, Mass.
Application January 31, 1950, Serial No. 141,548
15 Claims. (Cl. 222—70)



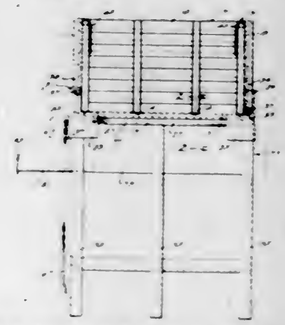
1. In combination, a plurality of refrigerated containers for coffee syrup, cream, and sugar syrup, a container of hot water, a valve for controlling the discharge from each of said containers, a device receiving the discharge from all of said valves, means for opening and then closing each of said valves, operator-actuated mechanisms for selecting the valves to be opened and closed during a cycle of machine operations, means for determining the time during each cycle that any of the selected valves will remain open, and means controlled by the selector mechanism selecting black coffee when said mechanism has been operated to cause said valve for the hot water container to be open for a longer period than when a selector mechanism for coffee with cream has been actuated, to substantially make up in volume of black coffee for the amount of cream dispensed when coffee with cream has been selected.

2,658,646
HOLDER FOR TUBE DISPENSERS HAVING AUTOMATICALLY OPERABLE CLOSURES
Herman A. Hinrichs, Tacoma, Wash.
Application June 18, 1949, Serial No. 99,991
3 Claims. (Cl. 222—105)



1. A holder for collapsible tube dispensers of the class provided with threaded necks, comprising a wall plate, brackets extending outwardly therefrom, a container for a dispenser, said container comprising a pair of side pieces and a top piece having therein a threaded opening adapted to engage the threaded neck of the dispenser, means for pivoting the side pieces at their lower ends to the brackets, a cap pivotally mounted on the container and normally covering the end of the dispenser, arms extending outwardly from the cap, connecting means connected to the brackets and to the arms of the cap, whereby the cap is removed from covering the end of the tube when the container is swung on its pivot and a shelf mounted on the wall plate and adapted to engage and hold the container when it is pivoted, thereby supporting the container in a substantially horizontal position.

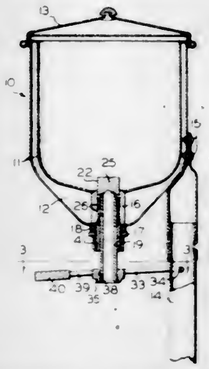
2,658,647
COLLAPSIBLE DUMPING BOX
Frank H. Stoner, Monroe, Mich., assignor to Monroe Auto Equipment Company, a corporation of Michigan
Application August 6, 1948, Serial No. 42,918
4 Claims. (Cl. 222—185)



3. A self contained collapsible dumping box structure including a box having opposed side walls and front and rear walls, a bottom closure for said box, structure for supporting said box above a supporting surface, means pivotally connecting said bottom closure to said supporting structure adjacent the rear wall of said box so that said bottom closure can swing toward and

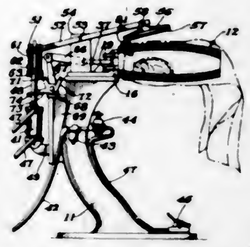
away from said box, means pivotally connecting said front and rear walls to said supporting structure so that said walls may be folded inwardly when it is desired to collapse said box, one of said walls being pivoted to said supporting structure further above the bottom of said box than the other of said walls, means detachably connecting said side walls to said supporting structure, whereby said side walls may be detached from said supporting structure and placed between the inwardly folded front and rear walls when said box is collapsed, and latching means, a part of which is located on said supporting structure and part on said bottom closure for releasably retaining said bottom in its upwardly swung position as a closure for said box, said means being operable to release said latching bottom for downward swinging movement.

2,658,648
DISPENSING VALVE FOR DISPENSING MEASURED QUANTITIES
Frank Tribbitt, Chicago, Ill.
Application March 19, 1952, Serial No. 277,373
11 Claims. (Cl. 222—477)



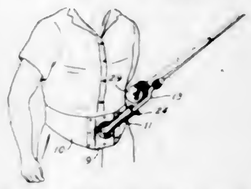
8. In a dispensing container, a dispensing valve comprising a sleeve connected to the bottom of said container, a valve member positioned for reciprocation within said sleeve, said valve member having a longitudinally extending bore opening outwardly at the lower end of said valve member, said valve member having at least one laterally extending inlet opening communicating with the bore and being normally closed from the container by the inner surface of the sleeve, a plunger movably positioned within the bore of the valve member, said plunger having a second longitudinally extending bore open at its lower end and having its upper end normally closed by engagement with the valve member, means for moving said plunger upwardly whereby said valve member is moved upwardly into a position wherein said opening in said valve member is in direct communication with the interior of said container, said plunger being movable downwardly to provide for communication between the first and second bores and said inlet opening for the discharge of liquid, said valve member being arranged with respect to said sleeve to draw liquid into an annular space formed below the valve member by said plunger and said sleeve, said valve member being movable by gravity downwardly against the liquid in said annular space to displace the same and to assume its original position upon the displacement of said liquid whereupon the discharge of liquid ceases.

2,658,649
PANTS PRESSING MACHINE
Samuel Rosenthal, Cleveland, Ohio
Application September 20, 1951, Serial No. 247,400
6 Claims. (Cl. 223—73)



1. A machine for pressing the top portion of trousers and the like comprising a heated center form configured to shape the central part of the trousers, and outer heated forms configured to shape the right and left parts of the said top portion of the trousers, said trousers being in circumjacent relationship to said forms, mechanism intermediate said outer forms for shifting said outer forms with respect to the center form into engagement with the trousers, a shiftable clamping plate for holding the closure portion of the trousers against the center form, and a second manual clamping plate intermediate said first clamping plate and the center form for holding said closure portion of the trousers while said first clamping plate is moving into engagement with the trousers.

2,658,650
FISHING ROD HOLDER
Herman H. Jasper, Bloomington, Ill.
Application January 10, 1950, Serial No. 137,841
1 Claim. (Cl. 224—5)



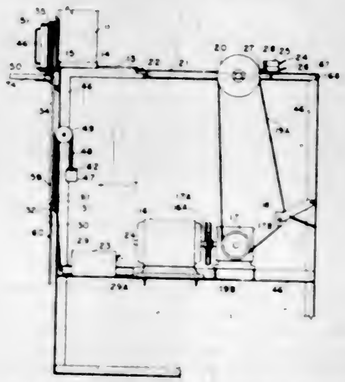
In a fishing rod holder of the kind wherein a fisherman's casting rod with reel is used in combination with a belt worn by the fisherman and in which the casting rod is provided on its handle portion with a rod locating means in predetermined relation to the handle and the casting reel and the belt is provided at its front with a plate having flat projections in circumferentially spaced relation and spaced from the belt plate to provide therewith a flat retainer socket having circumferentially spaced socket openings, the combination of a tubular rod holder having an open end to receive the handle portion of the casting rod and provided at its opposite end with a flat disc-like attachment plate having circumferential projections shaped to enter said retainer socket openings and to be held therein beneath said belt plate by rotative movement of the attachment plate with respect to the belt plate, the tubular rod holder having locating means complemental to that on the handle portion of the casting rod and shaped for coaction therewith to hold the casting reel in a predetermined position for right handed use, and means for locking the attachment plate to the belt plate in one position of said attachment plate in said retainer socket for said right handed use of the rod and for locking the tubular rod holder in a second position effected by rotative movement of said attachment plate with respect to the belt plate for left handed use of the rod.

2,658,651
RETORT BASKET LOADER
Garrett B. Stryker, Fullerton, Calif., assignor to Hunt Foods, Inc., Los Angeles, Calif., a corporation of Delaware
Application November 20, 1948, Serial No. 61,272
10 Claims. (Cl. 226—2)



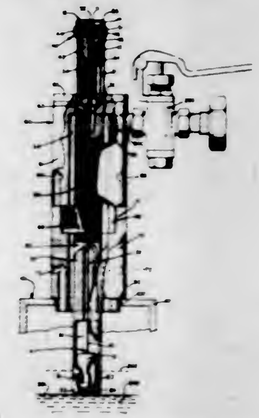
8. A retort basket loader comprising: an open tank divided into a first and second retort basket receiving compartment by a common wall having an overflow lip over which water can pass from one compartment to the other, said lip being disposed below the upper edges of the sides of the tank, an endless conveyor extending along the upper edge of one of the side walls of said tank, and independently operable deflector plates selectively operable to deflect articles from the conveyor into either of said compartments, the water being displaced by the articles from the selected compartment over said overflow lip into the other of said compartments.

2,658,652
ICE-CREAM STICK DISPENSING MACHINE
Ralph H. Bloxham, near Theodore, Ala.
Application May 26, 1951, Serial No. 228,451
3 Claims. (Cl. 226—14)



1. A machine to dispense sticks horizontally into a stick tray, comprising a metal frame, a plurality of vertical hoppers to hold the sticks positioned on one end of the top of the frame, a plurality of horizontal pusher bars provided with motive means for entering one side of the said hoppers, a vertical bar attached to horizontal bars, said horizontal bars movable in a horizontal manner and attached to said frame, said vertical bar having a rack attached at its top end, said rack provided with means to receive and hold said sticks, and means provided on the rack to receive and hold a stick tray, a plurality of grooves placed on the vertical bar, a trip lever positioned to encounter said grooves, means provided to release said trip lever at intervals, a switch for turning the machine on and off located on the frame near the vertical bar, and means provided on the vertical bar to turn the switch on and off automatically.

2,658,653
BATTERY WATERING GUN
Frank Mahan, Portsmouth, N. H.
Application June 6, 1949, Serial No. 97,491
3 Claims. (Cl. 226—19)
(Granted under Title 35, U. S. Code (1952), sec. 266)

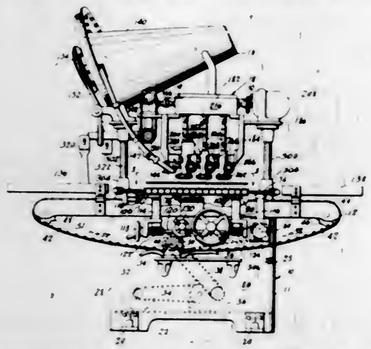


1. Apparatus for filling a container with liquid comprising an outer body portion having a central opening therein extending substantially the entire length thereof, the lower end of said body portion being adapted for insertion into an opening in said container, an inner member mounted coaxially within said body portion and being adapted to extend into said container, said inner member having threads throughout a portion of its length and being fitted into a threaded opening at that end of said outer body portion not inserted into said container thereby providing axial movement within said outer body portion when rotary movement is applied to it relative to said outer body portion, a liquid control valve having its outlet end extending into said central opening, a float suspended within said inner member for indicating when the level of the said liquid in the said container reaches a predetermined level, and vent holes formed in the wall of the said outer body portion and adapted to communicate the surrounding air with the inside of the container for maintaining the pressure on the liquid in said container equal to the pressure outside the container.

2,658,654
HIGH-SPEED CAPPING MACHINE
Max Norman Schweizer, New York, N. Y., assignor to Resina Automatic Machinery Company Inc., Brooklyn, N. Y., a corporation of New York
Application February 12, 1949, Serial No. 76,105
7 Claims. (Cl. 226—88)

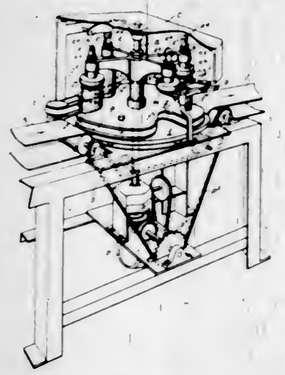
1. A capping machine for use in applying caps to uncapped containers including: a conveyor belt means, and a cap positioning means; said

cap positioning means including a plurality of rotor members engageable with said caps and serving to engage said caps upon said containers; said rotor members being disposed upon opposite sides of said caps and containers as they are



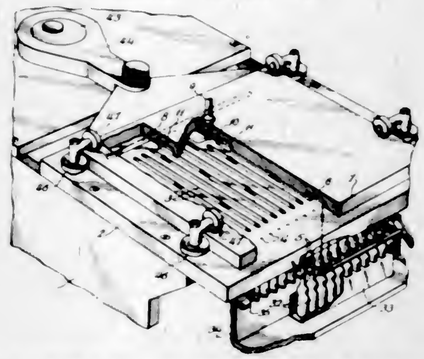
transported past said rotor unit by said conveyor belt means; all of said rotor members being capable of rotation in a first direction, and one only of said rotor members being capable of rotation in a second direction opposed to said first mentioned direction.

2,658,655
LIDDING MACHINE
Anthony Frank Litchfield and William Buxton Welsh, Manchester, England
Application June 16, 1951, Serial No. 231,922
Claims priority, application Great Britain June 17, 1950
10 Claims. (Cl. 226—88.1)



1. A lidding machine comprising a jig member adapted to move continuously in a substantially horizontal plane, fixed stations on said jig member, means for automatically delivering containers to said stations, a lid carrier adapted to move synchronously with said jig member in a plane thereabove and parallel thereto, vertically movable holders on said lid carrier in vertical correspondence with said stations, and each having attracting and retaining means for a lid at the lower end thereof, a feed chute adapted to carry a succession of lids for supply to said holders, said chute being upwardly inclined over the first part of its length and having retaining means effective to prevent premature attraction of a lid to a holder, engagement and locating means on each holder adapted as the latter passes above said chute to draw a lid thereafong until no longer under the influence of the retaining means on the chute, whereupon the attraction and retaining means on the holder are effective to carry the lid away, means adapted to depress each lid carrying holder so that the lid is forced into the mouth of the corresponding container and then to release the holder, means for returning said holder to its original position, the lid being severed therefrom by its force of engagement with the container, and means for removing each lidded container from its station.

2,658,656
DISPENSING MACHINE
John Halahan, Jackson Heights, Theodore F. Aronson, Valley Stream, and Floyd A. Lyon, Upper Brookville, N. Y.
Application November 22, 1950, Serial No. 196,992
14 Claims. (Cl. 226—107)

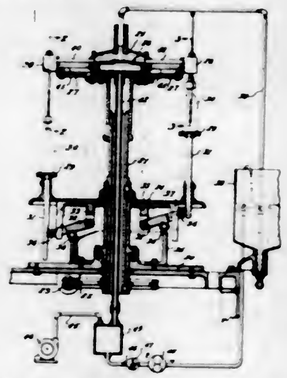


1. A dispensing machine comprising a plurality of staggered fluid reservoirs in a pressure chamber, means defining a dispensing orifice, means comprising a pair of grooved reciprocating plates defining a valved discharge passage connecting said reservoir and orifice, said last means also defining a valved fluid inlet passage connecting with said reservoirs, means for controlling the flow of fluid alternately through said inlet and discharge passages, means for applying pressure to said reservoirs for discharging a measured quantity therefrom, and means for operating said valve means and said discharging means in timed relation alternately to admit fluid from said inlet passage to said reservoirs and to operate said fluid-discharging means when the discharge passage is connected by said valve means with said dispensing orifice.

2,658,657
MACHINE FOR FILLING CONTAINERS
Paul R. Fechheimer, Cincinnati, Ohio, assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio, a corporation of Ohio
Application February 17, 1948, Serial No. 8,885
12 Claims. (Cl. 226—116)

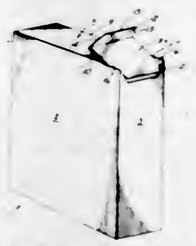
1. In a filling device an elongated filling tube, for entering a container, a vacuum tube having sealing means for contacting the top of the container, a source of filling material, a vacuum source, valve means acting alternatively to connect said sealing tube to said source of filling material and said vacuum tube to said vacuum source, and to effect an interruption of said connections and connect said filling tube to said vacuum source, means for positioning a container relative to said filling tube in a filling position

in which said end of said tube is near the bottom of said container, and in a leveling position in which the end of said tube coincides with a desired height of fill of said container, whereby the connection of said tube to said vacuum source will result in the withdrawal of material filled into said container above said desired height of fill, two alternative connections controlled by said valve means between said filling tube and said vacuum source, one of said connections being of relatively large diameter and effective during the



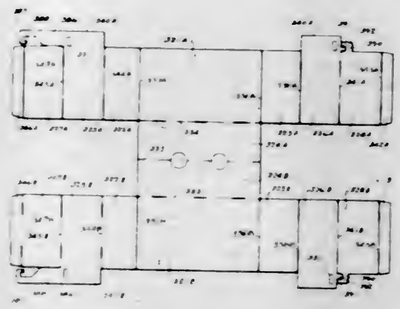
withdrawal of material as aforesaid, the other of said connections being of relatively smaller diameter and effective to prevent drip during the intervals between filling without depleting said vacuum source, an operative means adapted to be engaged and moved by a container presented for filling, and an operating connection between said operative means and said valve means, said operative means being mounted upon rods slidable in a body containing said valve means, one of said rods acting as part of said valve means in closing and opening a connection to said vacuum source.

2,658,658
ADJUSTABLE DISPENSING CLOSURE FOR CONTAINERS
William H. Henderson, Santa Rosa, Calif.
Application November 13, 1948, Serial No. 59,814
5 Claims. (Cl. 229—7)



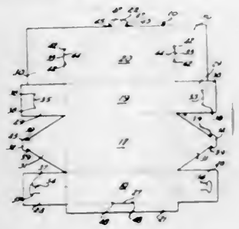
1. In a container of relatively stiff sheet material having a hinged flap formed as an upper corner portion thereof and separable from said container to provide a pouring opening of substantial area, a dispensing flap connected to said hinged flap and having marginal portions engageable with the portions of said container defining said pouring opening in a plurality of positions to provide a plurality of pouring openings of different and restricted areas and movable inwardly with said hinged flap to close said container when desired, said dispensing flap being disposed substantially immediately adjacent the upper wall of said container when the hinged flap is in closed position and said dispensing flap having a distal portion extending beyond an end wall of said container when the hinged flap is in an open position.

2,658,659
BOTTLE CARRIER
Maynard G. Hall, Rutherford, N. J., assignor to Empire Box Corporation, Garfield, N. J., a corporation of Delaware
Original application August 21, 1947, Serial No. 769,866. Divided and this application April 26, 1950, Serial No. 158,262
4 Claims. (Cl. 229—28)



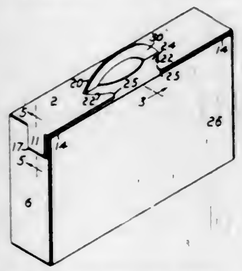
1. A pre-formed collapsible bottle carrier formed from cardboard or like material and comprising, when in its collapsed relation, a pair of similar bottom wall panels joined along a central fold line and folded along said fold line into a closely spaced and generally parallel relation, a pair of side walls joined along their respective lower edges along fold lines to the respective other edges of said bottom panels and extended in closely spaced relation from and in substantially the planes of the respective bottom panels to which they are joined, end walls for the respective ends of the carrier and each comprising a pair of similar end panels joined at their adjacent edges along end fold lines, and having the other vertical edges thereof joined along fold lines to the adjacent end edges of the respective side walls, said end panels being disposed in closely spaced relation as endwise continuations of said side walls so as to dispose said end fold lines at the end extremities of the collapsed carrier, a pair of handle sections disposed generally parallel to and between the respective pairs of end panels and being foldably joined to said end walls at the end fold lines that join the panels of such end walls, said handle panels having handle receiving openings formed respectively therein adjacent to the adjacent upper corners thereof, weight supporting and bottle separating panels of a width equal to the width of said end panels and extended between and foldably related to the opposite edges of each of said handle sections and each of said side walls in parallel relation to said end panels to afford a cellular structure adapted for erection by application of opposed forces to the opposed end fold lines of the carrier, and a bottle separating member connected in an uncreased relation to the inner edge of one of said handle sections in position to be moved toward the other handle section and into an operative bottle separating position as the carrier is erected.

2,658,660
FOLDING BOX
Clifford M. Keller, Chicago, Ill.
Application April 28, 1948, Serial No. 23,718
3 Claims. (Cl. 229—36)



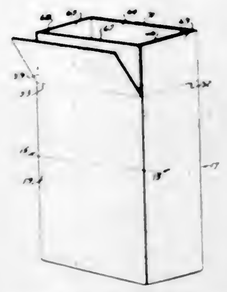
3. In a box structure made of flexible material, a panel having a tab-receiving slit therein, and a portion cooperable with said panel and having thereon a locking tab insertable into said slit from one side of the slit into face to face relation to the panel, said tab having oppositely directed locking ears the overall lateral extent of which is no greater than the total length of said slit, the extremities of the slit being offset from the main intermediate portion of the slit toward the opposite side from which the locking tab approaches the slit during assembly, said terminal portions of the slit being connected by respective angular portions to the main body portion of the slit and thereby defining at the end portions of the slit respective interlock tabs each of which has an edge portion directed generally toward the opposite interlock tab and an edge portion directed in the direction of movement of said locking tab during assembly of the locking tab into the slit, said interlock tabs being resiliently flexible upon engagement by said locking tab ears during assembly of the locking tab into the slit to clear passage of the locking tab into the slit and being springable into interlocking relation behind said locking tab ears after the locking tab ears have been fully inserted into the slit past said interlock tabs so as to block withdrawal of the locking tab from the slit.

2,658,661
PAPERBOARD BOX OF THE SUITCASE TYPE
Salvatore A. Aquino, Teaneck, N. J., and Charles D. Welshenbach, Sandusky, Ohio, assignors to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio
Application March 8, 1950, Serial No. 148,384
4 Claims. (Cl. 229—36)



1. A paperboard box having two walls disposed at right angles, one of said walls having an end flap that has a fold line hinge connection thereto and that engages with the inner face of the other wall, said flap having a slot extending along the fold line and adjacent thereto and said first mentioned wall having a slot parallel to said fold line and spaced therefrom, the other wall having a projecting tongue extending over the outer face of the first wall and through the slot in said wall and having an end portion against the inner face of said first wall and engaging in the slot of said flap.

2,658,662
MOISTUREPROOF CONTAINER
Neal I. Paulsen, Minneapolis, Minn., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Original application November 23, 1945, Serial No. 630,224. Divided and this application August 6, 1947, Serial No. 766,561
5 Claims. (Cl. 229—37)

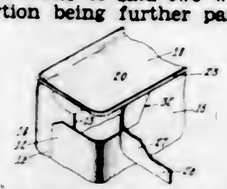


1. A container which is open at one end, embodying four lateral sides and an end closure consisting of prolongations of each of the sides opposite the open end, comprising a first sheet of material forming the inner surfaces of the container, a second sheet of material forming the outer surfaces of the container, said sheets overlapping on one of their dimensions to extend about and reinforce two corners of the lateral sides, the single end closure consisting of a multiplicity of folded alternately overlapping layers of the first and second sheets, the end closure prolongations of the sheets being continuous at the corners of the container except at two adjacent corners of the second sheet of material whereby a flap is formed from one side of the outer layer which constitutes the final overlap, and a layer of heat sealing material between contacting surfaces of the sides and between each contacting surface of the portions of the two sheets that form the single closure at one end of the container, said material forming a continuous bond that increases the rigidity of the container and renders all opposite contacting surfaces of the sheets forming the sides and single end closure to a practical extent air-tight and moisture-proof.

2,658,663
FIBER CONTAINER
Garland W. Reese, Chappaqua, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application February 18, 1948, Serial No. 9,273
5 Claims. (Cl. 229—51)

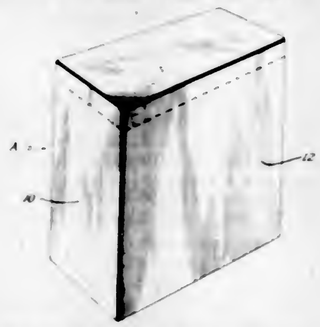
2. A fully sealed imperforate composite container for frozen foods and the like, comprising a tubular fibre body of substantially rectangular cross section having side walls merging into substantially rounded corners, said body also having a removable metallic end closure including an annular depending marginal flange having its terminal edge embedded throughout its entire

extent in the outer surface of said body walls to secure said closure to said walls in a sealed end joint, two adjoining side walls adjacent the corner therebetween containing a rupturable tear-away portion partially defined by a main score line extending in substantially spaced parallelism with said end joint from an intermediate point within one of said two walls through said corner and into the other of said two walls, said rupturable portion being further partially defined



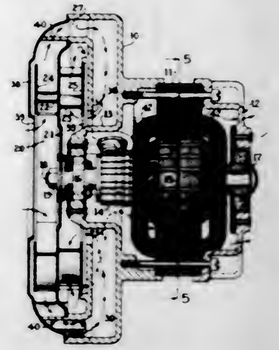
by an auxiliary score line extending at an angle to said main score line and terminating at said end joint, said rupturable portion being further defined by the adjacent portion of said end joint, whereby said rupturable portion is severable from the remainder of said body side walls by tearing along said score lines and along said adjacent portion of said end joint to form an opening in the container body which exposes a corner of said metallic end closure to permit the latter to be stripped from said tubular fibre body.

2,658,664
RECLOSABLE CARTON
Russell J. Hennessey, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application January 2, 1951, Serial No. 203,963
2 Claims. (Cl. 229—51)



1. A carton including rectangularly arranged side walls, closure flaps secured to the upper ends of said wall panels and folded into superposed relation and adhered together, a weakened line of separation extending entirely about the carton, the weakened line being substantially parallel to and spaced from the upper edges of the side walls, and a weakened line of separation, in each of two opposed walls, extending upwardly from the first named weakened line of separation to the line of fold connecting said two opposed walls to their respective closure flaps, said last named weakened lines of separation being intermediate the lines of fold connecting said two opposed wall panels to the adjacent panels, whereby when the upper portion of the carton is separated from the lower portion thereof along the first mentioned weakened line of separation, and the upper carton portion is separated along said last named weakened line, the upper carton portion will spread apart along its lower edge to permit ready telescoping onto the lower carton portion.

2,658,665
MULTISTAGE FAN FOR SUCTION CLEANERS
Donald B. Tschudy, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 7, 1950, Serial No. 199,689
18 Claims. (Cl. 230—117)

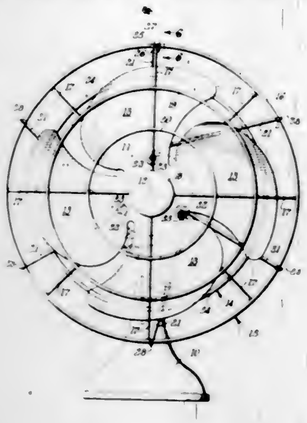


1. In a multi-stage fan for pumping a gaseous medium, a main fan casing; a rotatable shaft journaled in said casing and having one end extended beyond the front face thereof; a fan impeller secured to the extended end of said shaft; said impeller comprising a centrally positioned circular disc having centrifically acting impeller blades secured to the opposite sides thereof; and means secured to said casing and operating in cooperation therewith and with said impeller for forming a multi-stage fan; said means, casing and impeller being arranged to form at least one expansion chamber at the exhaust side of the first stage of said impeller, to form a static head chamber for the first stage of said impeller in communication with said expansion chamber, to form ducts communicating with said static head chamber and leading to the suction side of the second stage of said impeller, to form at least one expansion chamber at the exhaust side of the second stage of said impeller, to form a static head chamber for the second stage of said impeller in communication with the expansion chamber of the second stage of said impeller and to form exhaust ducts in communication with the static head chamber of the second stage of said impeller.

2,658,666
FAN GUARD
Walter Krzesiewski, Manville, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 14, 1950, Serial No. 200,730
3 Claims. (Cl. 230—259)

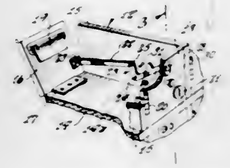
1. In a guard construction for a fan having a motor and fan blades driven thereby, the combination of a cage for encompassing the fan blades and including a circular peripheral rim and a plurality of substantially radially disposed members each having its outer end secured to the inner side of said rim, a guard-support attachable to the motor and including a plurality of arms with the end portion of each arm being formed as a hook for removable engagement with said rim, and a resilient hinge member carried by said guard for pivotally supporting said cage at the junction of said rim and one of said radial members, said hinge member having formed therein a pair of recesses which are disposed sub-

stantially at right angles to each other, a first of said recesses being adapted to receive said rim



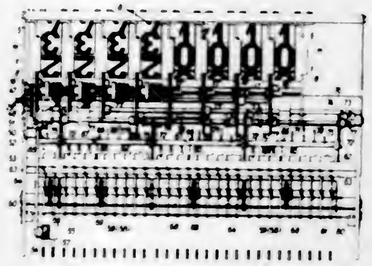
while the other is adapted to receive said one radial member.

2,658,667
HOTEL GUEST MAIL AND MESSAGE BOX
Sholem I. Mirkin, Johannesburg, Transvaal, Union of South Africa
Application October 17, 1950, Serial No. 190,567
1 Claim. (Cl. 232—23)



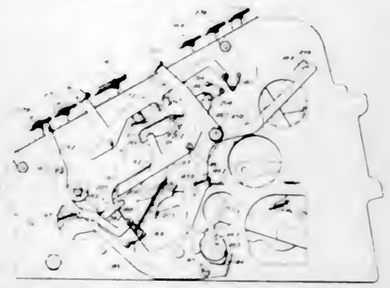
A box including a floor and a side wall, said box having a rear door, a horizontal hinge securing said rear door to the rear edge of said floor, a link pivoted at one end to said rear door, a bell crank pivoted to said side wall, the other end of said link being pivoted to one arm of said crank, the other arm of said crank extending toward and terminating near the front of the box, said link and crank lying in substantially parallel planes positioned close to said side wall and parallel with said side wall, said side wall having a recess therein positioned at the same radial distance from the pivot of the bell crank as the outer extremity of said other arm, said other arm having a plug on said outer extremity at right angles thereto and of greater length than the distance between said other arm and said wall, said crank comprising relatively thin material possessing inherent resiliency thereby normally urging said plug against said wall and when said plug is in alignment with said recess urging said plug into said recess, said link having a length such that when said plug is in alignment with said recess said rear door is closed, said rear door being opened by extracting said plug from said recess and swinging said other arm in the general direction of said rear door limit stop means limiting the arc of said swinging and hence the degree of opening of said rear door, said other arm being adapted to have a key ring slipped thereon.

2,658,668
INDICATING APPARATUS FOR CASH REGISTERS OR OTHER BUSINESS MACHINES
Kurt Aurbach and Hans Schaper, Bielefeld, Germany, assignors to Anker-Werke, A. G., Bielefeld, Germany, a corporation of Germany
Application October 17, 1950, Serial No. 190,634
Claims priority, application Germany
October 24, 1949
20 Claims. (Cl. 235—23)



19. Indicating apparatus for cash registers, calculating machines, accounting machines and the like business machines, comprising a rotatable carrier structure having a vertical axis of rotation and having a plurality of peripherally distributed indicator members selectively movable to a given indicating position by rotation of said structure, each of said members being substantially plate-shaped and having respective front and back faces with different characters to be indicated, and each of said members having on said carrier structure a vertical pivot axis and being individually and reversibly movable on said structure about said pivot axis for selection of one of said two characters to be indicated.

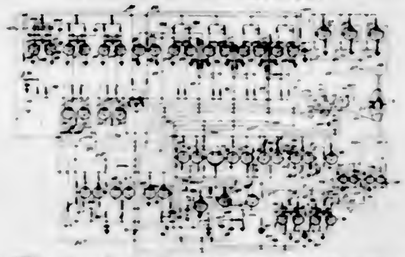
2,658,669
AUTOMATIC BALANCE SCHEDULING MEANS FOR LISTING CALCULATING MACHINES
Harvie J. Duke, Butler, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application January 14, 1953, Serial No. 331,220
23 Claims. (Cl. 235—60.31)



1. In a machine of the class described, the combination of an accumulator having a series of accumulator wheels, a month printing control wheel, actuator racks and related differential stop bars adapted to enter amounts additively or subtractively into the accumulator wheels and to adjust the month printing control wheel forwardly or reversely, totalizing means, printing means, cyclic operating means, accumulator control means for engaging said accumulator wheels and said month wheel with said actuator racks, a control slide for releasing the cycle operating

means, a plurality of machine function control slides operable by the cyclic operating means including a slide for tripping the totalizing means, and a slide adapted to control said accumulator control means to determine a character of operation, a plurality of operating keys adapted to release the cyclic operating control slide, stops settable by said keys to limit movement of the function control slides and thereby control the character of a machine cycle of operation, restoring means for the slides; repeat cycle means settable under control of one of said operating keys to prevent a restoral of the cyclic operating control slide and thereby provide for a series of automatic machine cycles of operation, means automatically operable during one cycle of operation to cause a modified control operation by the function control slides in a succeeding cycle of operation to thereby change the character of said succeeding cycle of operation, and means operable during said succeeding cycle of operation for automatically restoring said modifying means whereby the characters of operation are caused to alternate during said series of automatic machine cycles of operation.

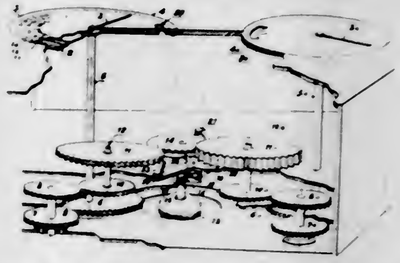
2,658,670
RATE DETERMINING DEVICE
George A. Morton and Leslie E. Flory, Princeton, and Richard L. Snyder, Jr., Glassboro, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application August 31, 1949, Serial No. 113,358
17 Claims. (Cl. 235—61)



15. The combination of a cathode ray tube having vertical and horizontal deflection plates for controlling the position of its ray and having a target which includes separate groups of potential storing means each provided with an input and an output lead, input means operable to apply to said input leads successive sets of potentials which are representative of successive numbers, a register having input leads connected to the output leads of said target, and means for applying to said deflection plates potentials to move said ray to establish said successive sets of potentials in successive rows of said potential storage means and to move said ray to establish said numbers represented by said potentials in said register.

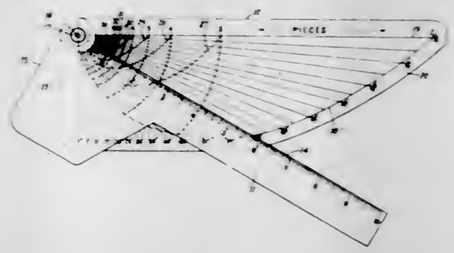
2,658,671
DISK SLIDE RULE WITH DECIMAL POINT INDICATOR
Julien Marie André Allais, Boulogne-sur-Seine, France
Application January 4, 1952, Serial No. 264,922
Claims priority, application France
January 5, 1951
20 Claims. (Cl. 235—61)

1. Selecting device, comprising at least one fixed circular scale with indicia provided thereon, an indicating hand angularly moving on the center of said circular scale, an axle controlling said hand, means for transmitting the motion from said axle to said hand, an additional dial for indicating the decimal point of any numerical value indicated under said indicating hand, on said additional dial divisions graduated in powers of ten from an origin ten power nought, a hand called decimal point hand angularly mov-



ing on the center of said additional dial, means for displacing said decimal point hand from said additional dial from the axle controlling said indicating hand so as to allow said decimal point hand to pass on one division of said additional dial whenever said indicating hand passes on the origin of said circular scale, a member for operating said additional dial, and means for disconnecting said additional dial from said operating member.

2,658,672
COMPUTING INSTRUMENT FOR MAKING ELBOWS
Vernon W. Dalzell, Alliance, Ohio
Application May 26, 1952, Serial No. 289,966
4 Claims. (Cl. 235—61)



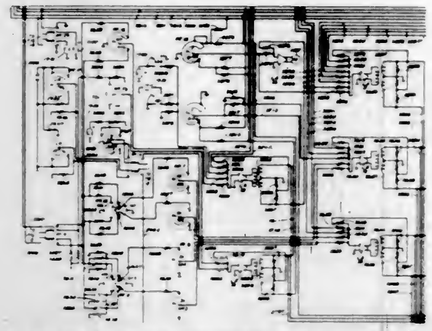
1. A device for determining the height of rise of the miter line for making elbows, said device comprising a lower member, an upper member having a straight edge graduated with a scale of linear measurements thereon, means pivoting the end of the upper member to one end of the lower member, there being a spiral curved line on the lower member extending from the pivot point toward the other end thereof and indicating an elbow having a definite number of sections, whereby in a predetermined relative position of the upper member upon the lower member the point of intersection of the graduated edge of the upper member with the spiral curved line on the lower member indicates the height of rise of the miter line for a particular elbow formed of a predetermined number of sections.

2,658,673

BALLISTIC COMPUTER HAVING RANGE EXTENDING ADJUSTABLE SCALE FACTOR MEANS

Sidney Darlington, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 13, 1945, Serial No. 577,621
4 Claims. (Cl. 235—61.5)



1. In an artillery computer, a source of voltage, computing means controlled by observations of the present position and movement of a target relative to the point of observation connected to said source to produce a first voltage of one polarity proportional to the distance to the predicted position of said target at a computed future time, a first motor, first fractionating means connected to said source and controlled by said first motor to select a second voltage proportional to the rotation of said first motor, a second motor connected to said computing means and controlled to rotate proportionally to the angular elevation of said predicted position, second fractionating means connected to said first fractionating means and controlled by said second motor to select a third voltage of opposite polarity varying as a function of the rotation of said second motor, means connected to said computing means, said second fractionating means and said first motor to add said first and third voltages and cause said motor to adjust said first fractionating means to reduce said sum to zero, and ballistic computing elements connected to said source and controlled by said motors to supply to said computing means other voltages proportional to the predicted movements of said target.

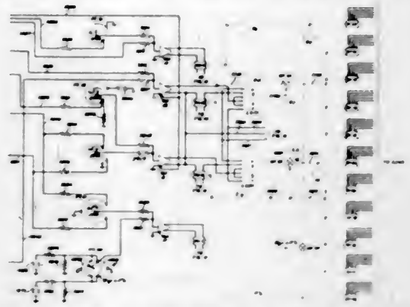
2,658,674

ARTILLERY COMPUTER HAVING DECK TILT AND GUN PARALLAX CORRECTION FACTORS

Sidney Darlington, New York, N. Y., and Alexis A. Lundstrom, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 13, 1945, Serial No. 577,623
5 Claims. (Cl. 235—61.5)

1. In a computer, computing means controlled by observations of the present position and movement relative to a selected point of a moving object to form the source of a first voltage proportional to the horizontal distance in the plane of the line of sight from said point to the projection of the virtual position of said object after the lapse of a computed time interval and the source of a second voltage proportional to the vertical distance of said virtual position above the horizontal plane through said point, a shaft gyroscopically controlled to rotate proportionally to the angle in the plane of the line of sight between said horizontal plane and an inclined plane, first means connected to the source of said first voltage and controlled by said shaft to fractionate said first voltage proportionally to the positive sine and cosine of the angle of rotation of said shaft, second means connected to the source of said second voltage and controlled by said shaft to fractionate said second voltage proportionally to the negative sine and positive cosine of the angle of rotation of said shaft, first



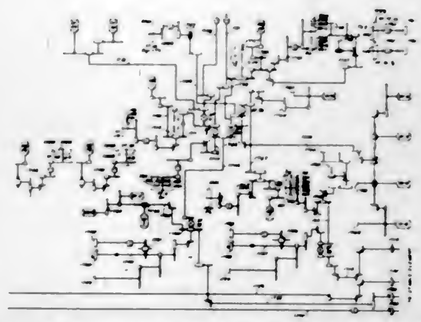
adding means connected to said fractionating means for adding the cosine fraction of said first voltage and the negative sine fraction of said second voltage to produce a voltage proportional to the distance in said inclined plane from said point to the projection of the virtual position of said object in the plane of the line of sight normal to said inclined plane, and second adding means connected to said fractionating means for adding the sine fraction of said first voltage and the cosine fraction of said second voltage.

2,658,675

TILT CORRECTOR FOR FIRE CONTROL COMPUTERS

Sidney Darlington, New York, N. Y., and Alexis A. Lundstrom, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 13, 1945, Serial No. 577,624
3 Claims. (Cl. 235—61.5)



1. In a computer carried by a naval vessel, a first shaft controlled by observations of a moving target to rotate proportionally to the director train, a second shaft gyroscopically controlled to rotate proportionally to the cross level, a third shaft gyroscopically controlled to rotate proportionally to the level, a motor, a fourth shaft, a differential gear connecting said first and fourth shafts and the shaft of said motor to cause said fourth shaft to rotate proportionally

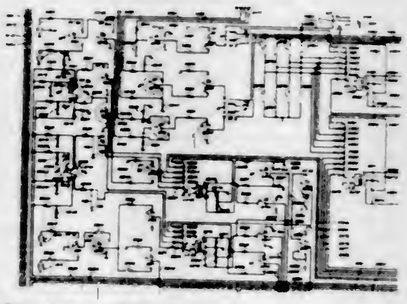
to the sum of the rotations of said first shaft and the shaft of said motor, a source of voltage, first means connected to said source and controlled by said fourth shaft to fractionate the voltage from said source proportionally to the sine of the angle of rotation of said shaft, second, third and fourth means connected to said first means and controlled by said fourth shaft to respectively fractionate said fractionated voltage proportionally to the negative sine, the negative cosine and the positive sine of the angle of rotation of said fourth shaft, fifth means connected to said source, sixth means connected to said second means, seventh means connected to said third means, said fifth, sixth and seventh means being controlled by said motor to fractionate the applied voltages proportionally to the tangent of the angle of rotation of said motor, a first feedback amplifier having an input circuit connected to said third, fifth and sixth fractionating means and an output circuit, a second feedback amplifier having an input circuit connected to said third and sixth fractionating means and an output circuit, a third feedback amplifier having an input circuit connected to said fourth and seventh fractionating means, eighth means connected to the output of said first amplifier, ninth means connected to the output of said third amplifier, said eighth and ninth means being controlled by said second shaft to respectively fractionate the output voltages of said amplifiers proportionally to the negative versine and sine of the cross level, tenth means connected to the output of said second amplifier and eleventh means connected to said ninth means, said tenth and eleventh means being controlled by said third shaft to respectively fractionate the applied voltages proportionally to the versine and sine of the level, a fourth amplifier having an input circuit connected to said fifth, eighth, tenth and eleventh means and an output circuit connected to said motor to cause said motor to vary the fractionated voltages from said first, second, third, fourth, fifth, sixth and seventh means until the sum of the voltages supplied to the input circuit of said fourth amplifier is reduced to zero and said fourth shaft has been rotated to the relative target bearing, and computing means controlled by the rotations of said second, third and fourth shafts and the shaft of said motor.

2,658,676

FUZE SETTING ORDER COMPUTER

Alexis A. Lundstrom, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 13, 1945, Serial No. 577,625
8 Claims. (Cl. 235—61.5)



7. In a gun data computer, mechanism controlled in accordance with observations of a target to rotate a first shaft proportionally to the ballistic range to the target, a second shaft proportionally to the advance elevation, a third shaft proportionally to the target angle, a fourth shaft proportionally to the relative target bearing, a fifth shaft proportionally to the horizontal deflection and a sixth shaft proportionally to the range rate; a source of voltage, first, second, third and fourth potentiometers, having windings respectively connected to said source and brushes rotated by said first shaft, the windings of said potentiometers varying in resistance with functions of the ballistic range; a first network connected to the brushes of said second and third potentiometers, fifth, sixth, seventh, eighth and ninth potentiometers having brushes rotated by said second shaft and windings respectively connected to the brush of said first potentiometer, said first network, the brush of said third potentiometer, and the brush of said fourth potentiometer, the windings of said potentiometers varying in resistance with functions of advance elevation; a second network connected to the brush of said second potentiometer, a third network connected to the brushes of said fourth and said ninth potentiometers, a tenth potentiometer having a winding connected to the brushes of said sixth and eighth potentiometers and said second and third networks and a brush adjusted to the initial velocity of the shell, a first amplifier having an input circuit connected to the brushes of said fourth and tenth poteniometers and said second and third networks and an output circuit, a first motor, an eleventh potentiometer having a winding connected to said source and a brush driven by said motor, a second amplifier having an input circuit connected to the output circuit of said first amplifier and to the brush of said eleventh potentiometer and an output circuit connected to said motor, whereby the shaft of said motor is rotated proportionally to fuze time; a third amplifier having an input circuit connected to the brushes of said third, fifth and tenth potentiometers, and an output circuit, a fourth network connected to the output circuits of said first and third amplifiers and to the input circuit of said third amplifier, a fourth amplifier having an input circuit connected to the brushes of said fifth and seventh potentiometers and said second and fourth networks; twelfth and thirteenth potentiometers having windings connected to said source and brushes driven by said third shaft, the windings of said potentiometers varying in resistance so that the voltages at the brushes are respectively proportional to the negative cosine and negative sine of the target angle, fourteenth and fifteenth potentiometers having windings respectively connected to the brushes of said twelfth and thirteenth potentiometers and brushes adjusted to select voltages proportional to the horizontal speed of the target; sixteenth and seventeenth potentiometers having windings connected to said source and brushes driven by said fourth shaft, the windings of said potentiometers varying in resistance so that the voltages at the brushes are respectively proportional to the negative cosine and negative sine of the relative target bearing, eighteenth and nineteenth potentiometers having windings respectively connected to the brushes of said sixteenth and seventeenth potentiometers and brushes adjusted to select voltages proportional to own ship speed; a fifth amplifier having an input circuit connected to the brushes of said fourteenth and eighteenth potentiometers, and an output circuit, a sixth amplifier having an input circuit connected to the brushes of said fifteenth and nineteenth potentiometers; twentieth and twenty-first poten-

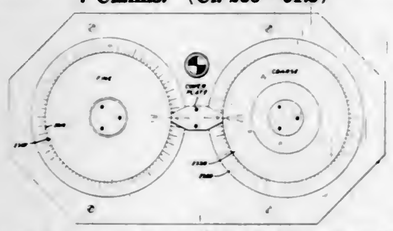
tiometers having windings respectively connected to the output circuits of said fifth and sixth amplifiers and brushes driven by said fifth shaft, the windings of said potentiometers varying in resistance so that the voltages at the brushes are respectively proportional to the negative cosine and sine of the horizontal deflection, a twenty-second potentiometer having a winding connected to said source and a brush adjusted to select a voltage proportional to the rate of climb, twenty-third, twenty-fourth and twenty-fifth potentiometers having windings respectively connected to the brushes of said twentieth, twenty-first and twenty-second potentiometers and brushes driven by said second shaft, the windings of said potentiometers varying in resistance so that the voltages at the brushes are respectively proportional to the cosine, the cosine and the sine of the advance elevation, the brushes of said potentiometers being connected to the input circuit of said fourth amplifier; a twenty-sixth potentiometer having a winding connected to said source and a brush driven by said sixth shaft; a seventh amplifier having an input circuit connected to the brushes of said twenty-third, twenty-fourth, twenty-fifth and twenty-sixth potentiometers and an output circuit, a twenty-seventh potentiometer having a winding connected to the output circuit of said seventh amplifier and a brush connected to the input circuit of said amplifier; a twenty-eighth potentiometer having a winding connected to the output circuit of said seventh amplifier and a brush adjusted to select a voltage proportional to the dead time connected to the input circuit of said fourth amplifier, a twenty-ninth potentiometer having a winding connected to the output circuit of said fourth amplifier, and a brush, a thirtieth potentiometer having a winding connected to the brush of said twenty-ninth potentiometer and a brush adjusted to select a voltage proportional to the reciprocal of the dead time, a second motor driving the brushes of said twenty-ninth potentiometer, an eighth amplifier having an input circuit connected to the brushes of said twenty-third, twenty-fourth, twenty-fifth, twenty-eighth and thirtieth potentiometers and an output circuit connected to said second motor, and a differential gear connected to the shafts of said motors and driving the brush of said twenty-seventh potentiometer.

2,658,677

REGENERATIVE TRACKING APPARATUS

Alexis A. Lundstrom, East Orange, and William A. Malthaner, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 13, 1945, Serial No. 577,627
7 Claims. (Cl. 235—61.5)



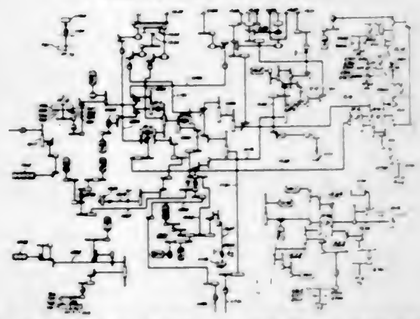
1. In a computer, a first shaft controlled by observations of a target to rotate proportionally to a coordinate of the position of said target with respect to the point of observation, a second shaft, a first motor driving said second shaft, a source of power having poles of opposite polarity, control means connected to said source and said motor to cause said motor to rotate at a speed proportional to the rate of change of said coordinate, a third shaft, a second motor, a differential gear connected to said second and third shafts and the shaft of said second motor to rotate said third shaft proportionally to the sum of the rotations of said second shaft and said second motor, a ring dial including a rotatable two-part ring and a coacting rotatable brush, means for respectively connecting the poles of said source of power to the two parts of said ring, means for connecting said first and third shafts to rotate said ring and brush proportionally to the rotations of said shaft and adjustable means connected from said brush to said second motor to control the speed of said motor, whereby said second motor is driven to match said ring dial in a time interval regulated by the speed of said second motor.

2,658,678

SIGHT ORDER COMPUTER

Bernard D. Holbrook, Madison, and Alexis A. Lundstrom, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 13, 1945, Serial No. 577,628
2 Claims. (Cl. 235—61.5)



1. In a naval artillery computer, computing means controlled by observations of the present position and movement of a target relative to a fictitious mean gun to rotate a first shaft proportionally to the angular elevation of the target above the horizontal plane, and to form the source of two voltages respectively proportional to the rectangular coordinates, with origin at the mean gun, of the projection of the future position of the target after the lapse of a computed interval of time measured in the horizontal plane along the vertical plane through the line of sight and normal thereto, a first motor, first fractionating means connected to said source and controlled by said motor to fractionate said first voltage proportionally to the positive sine, and said second voltage proportionally to the negative cosine of the angle of rotation of said motor, a first amplifier having an input circuit connected to said fractionating means and an output circuit connected to said motor to energize said motor proportionally to the sum of said fractionated voltages to rotate until the sum of said voltages is reduced to zero, a source of a third voltage, second fractionating means connected to the source of said third voltage and controlled by said first motor to fractionate said third voltage proportionally to the sine of the angle of rotation of said motor, third fractionating means connected to said second fractionating means and controlled by said first shaft to further fractionate said voltage proportionally to the cosine of the angle of rotation of said shaft, a second motor, fourth

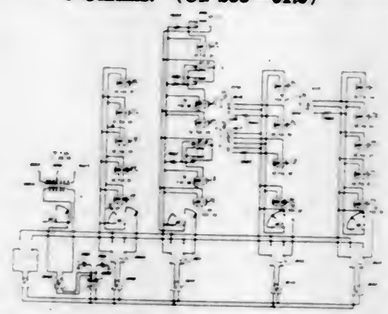
fractionating means connected to the source of said third voltage and controlled by said second motor to fractionate said third voltage proportionally to the negative sine of the angle of rotation of said second motor, a second amplifier having an input circuit connected to said third and fourth fractionating means and an output circuit connected to said second motor to energize said second motor proportionally to the sum of said fractionated voltages to rotate until the sum of said voltages is reduced to zero and said second motor has rotated proportionally to the sight deflection angle, and means controlled by said motor to transmit indications proportional to said angle.

2,658,679

COMPUTER CONTROL DEVICE

Bernard D. Holbrook, Madison, and Alexis A. Lundstrom, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 13, 1945, Serial No. 577,629
5 Claims. (Cl. 235—61.5)



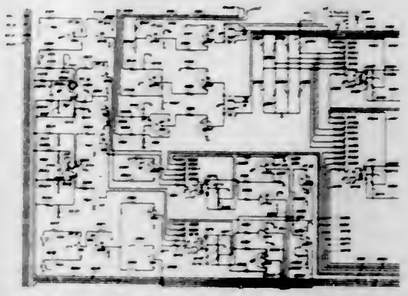
4. In combination with computing means controlled by observations of the range, elevation and bearing of a target to respectively rotate first, second and third shafts proportionally to said range, elevation and bearing and including first, second and third motors, a source of voltage, means connected to said source and adjusted to form the sources of first and second voltages respectively proportional to the relative horizontal and vertical speeds of said target with respect to the point of observation, coordinate conversion means connected to the sources of said first and second voltages and said motors to respectively rotate said motors proportionally to the rates of change in range, elevation and bearing of said target, integrating means controlled by said first, second, and third motors to rotate fourth, fifth and sixth shafts respectively proportionally to the integrated values of said rates, fourth, fifth and sixth motors, seventh eighth and ninth shafts, means respectively connected to said fourth shaft and the shaft of said fourth motor, to said fifth shaft and the shaft of said fifth motor and to said sixth shaft and the shaft of said sixth motor to respectively rotate said seventh, eighth and ninth shafts proportionally to the sums of the motions of said shafts and motors, comparison means respectively driven by said first and seventh shafts, said second and eighth shafts and said third and ninth shafts to supply voltages to said first and fourth motors, to said second and fifth motors and to said third and sixth motors respectively indicating positional disagreements of said first and seventh shafts, said second and eighth shafts and said third and ninth shafts, fractionating means adjusted to select a third voltage proportional to the relative speed of said target with respect to the point of observation, first relay means operative to disconnect the sources of said first and second voltages from said source of voltage, second relay means operative to connect said fractionating means to said source of voltage and said first motor, a magnetic clutch attached to the shaft of said first motor and said fractionating means, third relay means operative to connect said clutch to said source of voltage, and switching means connected to said source of voltage and said relay means to operate all said relay means.

2,658,680

WIND AND SPOT COMPUTER

Bernard D. Holbrook, Madison, Alexis A. Lundstrom, East Orange, and William A. Malthaner, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 13, 1945, Serial No. 577,630
4 Claims. (Cl. 235—61.5)



1. In a computer controlled by observations of the position and movement of a target relative to a ship to direct a shell from a gun to said target including ballistic computing elements forming the sources of a first voltage proportional to the cross wind time and a second voltage proportional to the drift, first means connected to the source of said first voltage and controlled by said computer to fractionate said voltage proportionally to the component of the velocity of the wind relative to the ship normal to the vertical plane through the axis of the gun, a source of a third constant voltage, second means connected to the source of said third voltage and adjusted to fractionate said voltage proportionally to a desired angular deflection spot, third means connected to said second means and controlled by said computer to further fractionate said third voltage proportionally to the advance range to said target, and an amplifier having an input circuit connected to the source of said second voltage and to said first and third means and an output circuit, whereby the voltage of said output circuit is made proportional to the horizontal effects normal to the vertical plane through the axis of the gun of the drift, wind, and deflection spot.

2,658,681

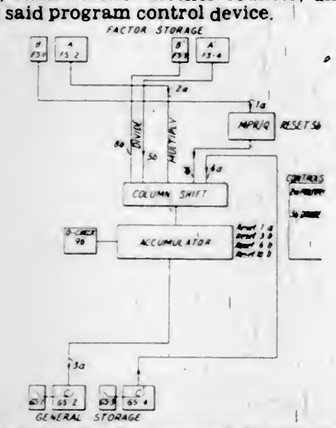
ELECTRONIC CALCULATOR

Ralph L. Palmer, Poughkeepsie, James E. Fernekees, Wappingers Falls, Jerrier A. Haddad, Fishkill, Byron E. Phelps, Wappingers Falls, and James V. Williams, Jr., Poughkeepsie, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application July 9, 1948, Serial No. 38,078
39 Claims. (Cl. 235—61.6)

1. In combination, an electronic program control device comprising a plurality of electronic

elements, operable step by step continuously for one cycle, settable means for rendering only selected steps of said program control device effective during said complete cycle of operation, a plurality of electronic counters, electronic entry and exit controls for said counters, means for electronically entering a value into a counter and means connecting said selected steps and said entry and exit controls, whereby the factor read into a counter can be read out and the read out factor, entered into another counter, under control of said program control device.



35. An electronic accumulator comprising a plurality of electronic counters, entry control means for said plurality of counters, exit control means for said counters, carry means between said counters, means for rolling out said counters and electronic valve means controlled by said roll out means for rendering said carry means inoperative during said roll out.

39. In a device of the character described, a plurality of electronic counters, column shift means for determining the entry into selected counters, an electronic digit emitter comprising means for selectively producing a number of pulses, in proportion to a digit selected, and means for selectively operating said column shift means to determine into which counter said pulses will be entered and including entry control means for said counters controlled by said column shift means, and means for adjusting said entry control means to produce a true or complement entry of the value of the selected digit.

2,658,682

RECORD CONTROLLED MACHINE

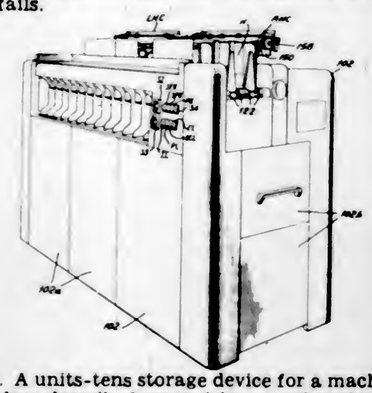
Clair D. Lake, Binghamton, Lawrence A. Wilson, Vestal, Donald R. Piatt, Endicott, and Benjamin M. Durfee, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application January 31, 1949, Serial No. 73,842

39 Claims. (Cl. 235—61.9)

1. In a record distributing machine having provisions for setting up a plurality of separate machine control circuits having separate functions, a power source, a continuity testing device, means to initially connect all of said circuits in series with said device as a preliminary to testing the continuity of all of said circuits together, and means rendered operative by said device when said circuits have complete continuity for connecting said circuits in parallel to said power source.

19. A statistical machine comprising means to feed records having data representations, a series of units counters arranged in a plurality of groups, means controlled by said records for selectively operating said counters in accordance with combinations of data representations; printing mechanism including a series of printing banks, one bank for each group of counters; a carriage for a work sheet having a plurality of columns, one for each counter and arranged in groups to correspond to the grouping of said counters, total read out means, means controlled by said carriage for selectively connecting each printing bank and the total read out means to one of the counters in the associated group, means for effecting total printing operations from connected counters, means to effect a column space of the carriage after each total printing operation to enable the totals in said counters to be printed in the columns of said work sheet one at a time in succession for each group; a series of accumulators, one for each printing bank; means to enter the totals printed from the counters by each printing bank in the corresponding accumulator, means rendered operative by said carriage after the last totals have been printed to effect a transfer of the totals accumulated by all but one of said accumulators to the remaining accumulator, means to test said remaining accumulator for a predetermined value condition, and means rendered effective by said testing means for stopping the machine when the test fails.



31. A units-tens storage device for a machine of the class described comprising a series of impulse outputs representing all of the combinations of the digits 0 to 9 in numbers of two digits, each output representing a single value of either one or two digits, an impulse input; and means to selectively connect said input to said outputs according to any value from zero to 99, including a series of tens digit common wires, a series of tens digit binary storage relays having contacts closed in different combinations representing different tens digit selectively to first connect said impulse input to said common wires according to the tens digit, and including a series of units digits binary storage relays for next selectively connecting said outputs to said common wires in accordance with the units digits.

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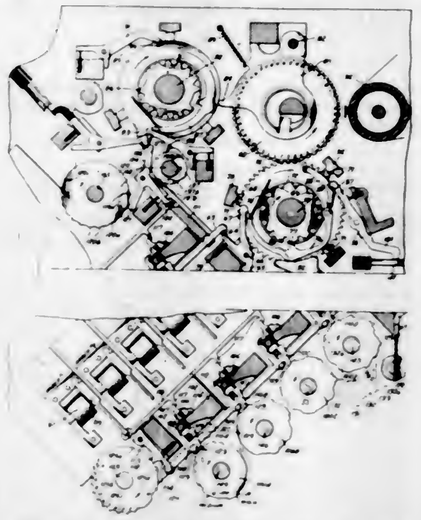
ACCOUNTING MACHINE FOR HANDLING NONDECIMAL ENTRIES

Edward J. Rabenda, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application June 12, 1951, Serial No. 231,112

7 Claims. (Cl. 235—61.9)

7. In a machine controlled by a perforated recording having X and R designations and digit designations 1–9, a plurality of emitters each for transmitting a different combination of impulses than the other, means for sensing X and R designations, other means for sensing 1–9 designations and transmitting differentially timed impulses singly, a printing member having digit type 1–9 and 10 and 11, positioning means therefor, a translator controlled by said emitters for receiving said single differentially timed impulses and said combinations of impulses for converting them to a single differentially timed equivalent to control the position of said printing member, means under control of said translator when single differentially timed impulses are received



for causing said positioning means to position said printing member to select digit type 1–9 and when combinations of impulses are received for causing said positioning means to position said printing member to select type 10 or 11, means under control of said X and R sensing means to select an associated emitter for transmitting a combination of impulses to said translator, an accumulating means, a control magnet therefor, and differentially timed impulse means under control of said printing member for causing, in accordance with the 1–9, 10 or 11 type selected, the energization of said control magnet and operation of said accumulating means to effect an entry corresponding to the type selected.

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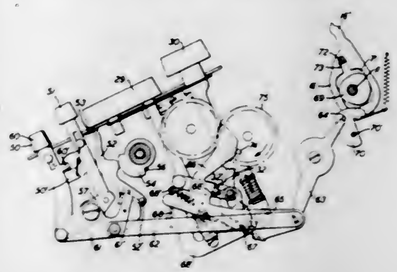
FACTOR ENTERING MEANS

Herman Gang, Livingston, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Application January 20, 1950, Serial No. 139,635

8 Claims. (Cl. 235—62)

1. In a motor driven calculating machine having an accumulator register, actuating mechanism for said register, a counter register, an actuator for said counter register, drive means for effecting cyclic operation of said actuating mechanism and of said counter actuator, and drive control devices including a freely retractable drive control member movable to initiate operation of said drive means and upon retraction effective to terminate the operation upon completion of the current operating cycle of said actuating mechanism; normally ineffectively positioned means adjustable into position to disable said counter actuator, a device operable to move and thereafter hold said drive control member in drive initiating position, a depressible operation key, an operating train for adjusting said disabling means to effective position and for operating said device upon de-



pression of said key, spring means for restoring said disabling means and said device, unitary latching means for holding said disabling means and said device in operated position, and a contact member operable by said drive means during the initiated cycle of said actuating mechanism to release said latching means.

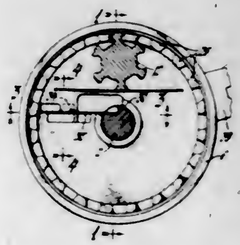
2,658,685

QUICK RESET ODOMETER

Henry H. Harada, Grand Blanc, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application May 25, 1948, Serial No. 29,049. Divided and this application August 3, 1950, Serial No. 181,591

2 Claims. (Cl. 235—139)



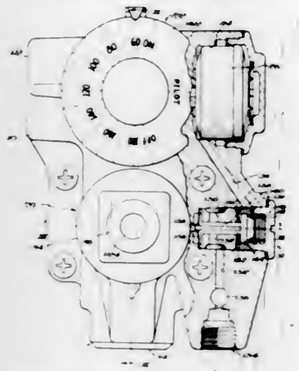
1. In an odometer a first figure wheel, a second figure wheel, a floating transfer pinion between said wheels and having axially spaced sets of teeth and equiangularly located flat spots on its periphery, means restricting said transfer pinion to movement in its own plane, said movement being radial with respect to the center of rotation of said figure wheels, a plurality of teeth on one part of said first figure wheel to engage one set of teeth on said transfer pinion, teeth on the entire periphery of said second figure wheel to engage the second set of teeth on said transfer pinion, and a flat spring for maintaining the transfer pinion in frictional and tooth-meshing engagement with said figure wheels, a portion of said spring engaging one of said flat spots on said transfer pinion only when the figures on said figure wheels are in predetermined alined positions.

2,658,686

COMBINED THERMOSTAT AND AUTOMATIC PILOT CONTROL

Michael J. Caparone, Arcadia, and Charles M. Vaughn, Los Angeles, Calif., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware

Application May 15, 1951, Serial No. 226,506
4 Claims. (Cl. 236—21)



1. In a control device, the combination of a movable electromagnet having an armature separable therefrom for movement between attracted and released positions, thermally responsive valve means movable between controlling positions independently of said armature and having operative engagement with said armature in said released position thereof, means for biasing said armature to said released position and holding said thermally responsive valve means in one of said controlling positions, resetting means operable for moving said electromagnet into engagement with said armature, means effective upon completion of the resetting operation for retracting said electromagnet and causing movement of said armature out of operative engagement with said valve means to free the same for movement to another of said controlling positions, auxiliary valve means movable between controlling positions, an operating member operatively associated with said auxiliary valve means and slidable laterally relative to said electromagnet, cam means movable with said electromagnet and engageable with said operating member during the resetting operation for placing said auxiliary valve means in one of said controlling positions, and detent means movable with said armature for retaining said auxiliary valve means in said one position while said armature is in said attracted position.

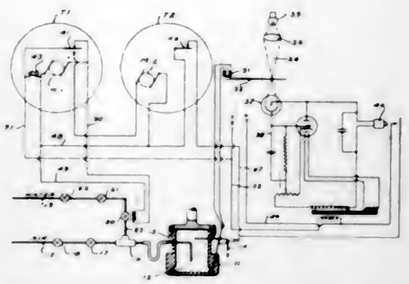
2,658,687

GLASS WORKING IMPLEMENT TEMPERATURE CONTROL

George H. Southworth, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application January 9, 1948, Serial No. 1,287
5 Claims. (Cl. 236—46)

3. The combination with a device whose temperature is to be regulated, of a temperature responsive element, temperature-regulating means under control of said element to change the temperature of said device in a corrective direction, a first timing unit under control of said element adapted to disable said temperature-regulating means after a predetermined time interval, and a second timing unit under the joint control of said temperature-responsive element and said



first timing unit to reinitiate an operating cycle of said first timing unit after a predetermined lapsed time.

2,658,688

IMPROVEMENT IN RAILWAY TRACKS

Wladyslaw Trylinski, Sr., Milanówek, and Wladyslaw Trylinski, Jr., and Beata Trylinska, Warsaw, Poland

Application April 28, 1948, Serial No. 23,776
Claims priority, application Poland May 14, 1947
3 Claims. (Cl. 238—115)



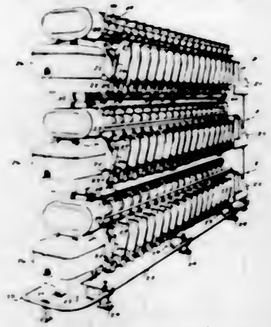
1. A railway track construction comprising a pair of spaced track rails having flanges, a plurality of pairs of blocks spaced longitudinally of the rails, the blocks of each pair being spaced apart transversely of the rails with one block of each pair under one rail and the other block of said pair under the other rail, an upstanding abutment on the top of each block for engaging one side edge of the flange of one of said rails, a hook on the top of each block having an upstanding portion spaced from the abutment a distance slightly greater than the width of the flange of the rail for engaging the other side edge of said rail flange, said hook also being a lateral portion extending toward the abutment and overlying a portion of the rail flange, said abutment and hook serving to connect the rail and block by engaging one side of the foot flange in the hook and rotating the block about an axis parallel to the rail to bring the abutment adjacent the outer edge of the opposite side of the flange, a plurality of connecting rods extending transversely of the rails, said rods being spaced longitudinally of the track, means for connecting one end portion of each connecting rod to the flange of one rail, and means for connecting the other end portion of each connecting rod to the flange of the other rail to connect the rails together in a fixed spaced apart relation, said hook and abutment on each block serving to retain the rail embraced by the same against transverse movement and upward movement relative to the block while allowing longitudinal movement of the rail relative to the block.

2,658,689

TRAVERSE MOTION FOR YARN WINDING MACHINES AND THE LIKE

Morris M. Waldrop, Greenville, S. C., assignor to J. P. Stevens & Co., Inc., a corporation of Delaware

Application March 3, 1952, Serial No. 274,536
4 Claims. (Cl. 242—18)



4. In a yarn winding machine, the combination with a plurality of commonly driven yarn take-up rolls and a corresponding plurality of yarn guide means arranged on a common mounting for traversing motion in relation to said take-up rolls, of a traverse motion comprising a pulley member aligned with said common mounting for rotation on an axis transverse thereto, an extending tape element connected from said common mounting to said pulley member, a traverse cam and an eccentric mounted for rotation about a common axis parallel to the axis of said pulley member and for sliding movement transverse thereto in a direction aligned with the traversing motion of said common mounting, said traverse cam and eccentric being driven at differential speeds from a common source with said take-up rolls, means following said traverse cam for rotating said pulley member in one direction to wind said tape element thereon during a working stroke of said cam and for allowing rotation of said pulley member in the other direction to unwind said tape element therefrom during a return stroke of said cam, a stationary reaction means engaging said eccentric and thereby actuating said sliding movement for supplementing the action of said cam with continuous phase variation by virtue of said differential speeds, and means biasing said common guide means mounting for movement to unwind said tape element from said pulley member during the return stroke of said traverse cam.

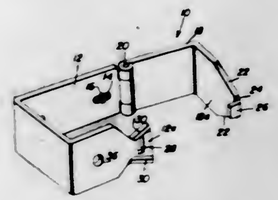
2,658,690

TOILET PAPER HOLDER

Earl J. Hill, North Durham, N. C.; William Tippett Hill, administrator of said Earl J. Hill, deceased, assignor of one-half to George W. Ferrell and one-half to Zackariah T. Hampton, Durham, N. C.

Application June 30, 1952, Serial No. 296,298
1 Claim. (Cl. 242—55.2)

Locking means for a paper roll holder of the type having a stationary member for insertion in one end of the roll and a pivoted member swingable laterally and endwise into the other end of the roll, said locking means comprising a free flat end portion on said stationary member having an aperture therein and a pair of lateral straight, flat guards thereon upon opposite sides of said aperture, a flat free end portion on said pivoted member laterally swingable and endwise movable in between said guards into overlapping flat engagement with said first named end portion, said guards converging relatively in the direction of endwise movement of said second named portion and said second named portion having relatively convergent edges engageable flush with said guards by lateral and endwise swinging of said second named portion, and a



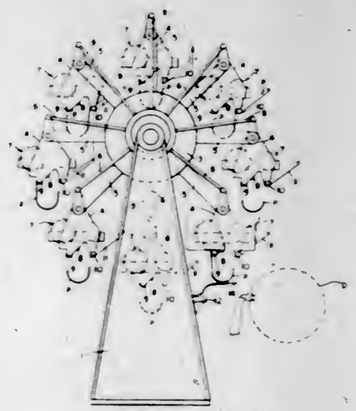
terminal right angled tongue on said second named portion engageable with said first named portion by lateral swinging of said second named portion and slidable thereon by endwise swinging of said second named portion into registration with said aperture to be snapped into said aperture by lateral swinging of said second named portion when said edges are engaged with said guards, said guards and edges preventing said end portions from being pried apart.

2,658,691

PLY STOCK MAGAZINE

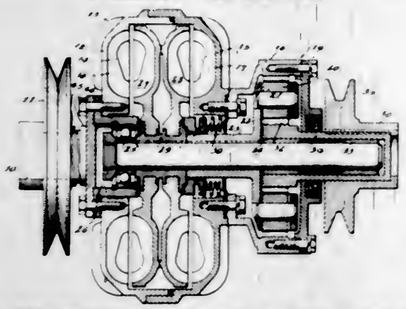
Edwin E. Mallory, Cuyahoga Falls, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio

Application September 27, 1950, Serial No. 187,095
7 Claims. (Cl. 242—64)



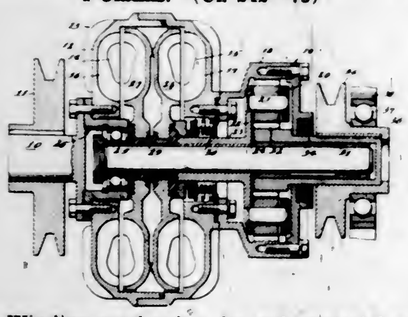
1. A portable ply stock magazine comprising parallel ply stock supply and liner rolls, and a support integrally formed at opposite ends with a pair of spaced apart brackets journalling the end portions of said rolls, each of said rolls being provided with a driving member accessible from an end of said support and through which said rolls may be selectively driven to wind a liner from said liner roll, together with ply stock, onto said supply roll and to wind such liner from said supply roll onto said liner roll to thus unwind the ply stock.

2,658,692
WINDING MECHANISM
Lloyd J. Wolf, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application February 28, 1950, Serial No. 146,662
6 Claims. (Cl. 242—75)



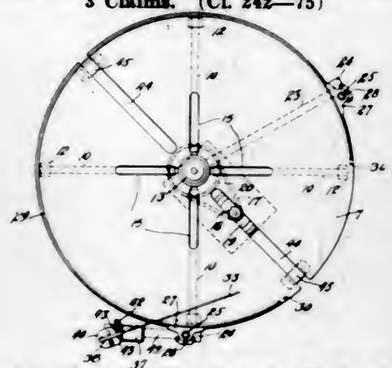
1. Mechanism for winding a web under tension comprising a winding roll, a power transmission having its output connected to the roll and including an hydraulic coupling and a connected planetary gear train, cooperating speed selector sheaves respectively connectible to a constant speed power source and the transmission input, each sheave including two cooperating components relatively movable axially, on sheave being manually adjustable to vary the spacing of its components and the other sheave being automatically conditioned for coaction with said one sheave in any adjusted position thereof, and a belt connecting the sheaves.

2,658,693
WINDING MECHANISM
Lloyd J. Wolf, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application February 28, 1950, Serial No. 146,663
4 Claims. (Cl. 242—75)



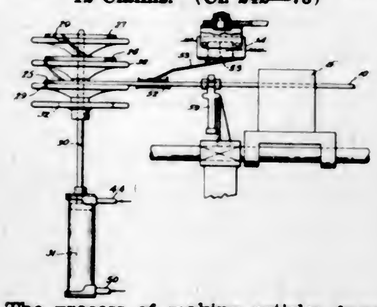
1. Winding mechanism for web material comprising a pair of rolls, reversible gripping means between which the web is passed for alternately moving the web in opposite directions between the rolls to direct the web towards one roll for winding thereon while unwinding from the other roll, and transmitting means for each roll including an hydraulic coupling having an impeller driven at constant speed in a direction to wind the associated roll, a runner cooperably related to the impeller, and planetary gear means interposed between the runner and the associated roll including a plurality of gear elements, one of the elements being connected to the impeller, another element being connected to the runner and another element being connected to the associated roll, one coupling serving to transmit power to one of the rolls for winding and to assist the movement of the web and the other coupling acting as a hydrodynamic brake on the unwinding of the other roll whereby a substantially constant tension is maintained on the web in each direction, and each planetary gear means automatically adjusting to the changing torque requirements as the weight of the associated roll changes.

2,658,694
STOCK REEL
Frederick Koch, Sparta, N. J., assignor to C. Todd, Rutherford, N. J., as trustee
Application April 6, 1951, Serial No. 219,558
3 Claims. (Cl. 242—75)



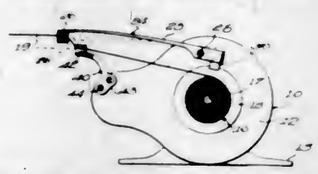
1. A stock reel of the character disclosed comprising a substantially horizontal turntable for supporting a coil of stock on edge, means for rotating said turntable to unwind a coil of stock supported thereon, a circular guard supported in stationary relation in position for limiting the expansion of a coil of stock supported on said turntable, a follower supported at the outside of said guard and having a leverage portion reaching over the top of said guard into position for engagement by the outer convolution of a coil of stock on the turntable, control means operable by said follower and a horizontal pivotal mounting for said follower enabling the same to be swung vertically up out of position over said turntable.

2,658,695
PROCESS AND APPARATUS FOR MANUFACTURING ARTICLES FROM STRIP STOCK
Stanley Atchason, Somerville, Mass., assignor to The Gillette Company, a corporation of Delaware
Application June 21, 1950, Serial No. 169,449
12 Claims. (Cl. 242—78)



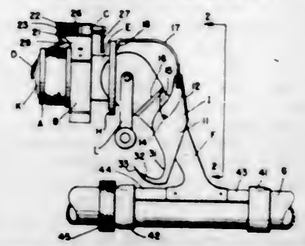
4. The process of making articles from strip steel in coil form which includes the steps of mounting a series of connected coils for free rotation about a common axis, rotating all the coils at the same rate by drawing steel from the endmost coil of the series, and shifting a fresh coil into the place of each coil as it is exhausted.

2,658,696
ANTIBACKLASH FISHING REEL
Roy L. Cooper, Waterman, Ill., assignor of one-half to Arthur Larsen, Waterman, Ill.
Application December 21, 1948, Serial No. 66,483
4 Claims. (Cl. 242—84.5)



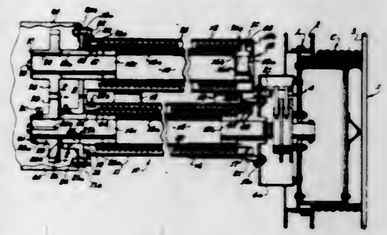
1. An anti-backlash device for a fishing reel having a spool, comprising a lever pivotally mounted on the reel, said lever projecting a relatively short distance rearwardly of its pivotal connection with said reel and a substantially longer distance forwardly of its pivotal connection with said reel, a snubbing element carried by the rear end of said lever and engageable with said spool, an eye carried by the forward end of said lever providing a substantially circular opening therein through which a line from said spool may be threaded, means biasing said lever to a normal position in which said snubbing element engages the spool, and a stationary device fixed to said reel and including an eye fixedly mounted rearwardly of and in close proximity to said first-named eye and having a substantially circular opening therein similar to said first-named opening, the opening in said first-named eye, when said lever is in its normal position, being disposed upwardly of and slightly out of alignment with the opening in said stationary eye in a manner such that a line from said spool threaded successively through said openings will have an upwardly and forwardly inclined portion between said eyes, whereby when such line is under tension, said first-named eye will be moved downwardly to a position wherein the openings in said eyes are in substantial alignment with each other to move the forward end of said lever downwardly and release the snubbing element from the spool.

2,658,697
FISHING REEL
John F. Steinbaugh, deceased, late of Newark, Ohio, by Clara E. Steinbaugh, executrix, Newark, Ohio
Application May 27, 1950, Serial No. 164,746
4 Claims. (Cl. 242—84.5)



1. An improvement in fishing reels of the type in which there is provided a spool in which a fishing line is wound, the spool being normally non-rotating during the winding operation, in which there is provided a rotative casing having a pick-up finger for winding the line upon the spool, in which there is provided a crank for rotating the rotatable casing, and in which there is provided a support having extensions for securing the reel to a fishing rod, the improvement which comprises a trigger pivoted on such support and having a portion adjacent to the fishing rod so that it can be operated by the forefinger of the hand of the fisherman grasping the rod and means comprising an extension of said trigger, a collar movable substantially longitudinally of the rotative axis of said spool and connected to said extension for movement therewith, a bell crank lever provided with a rack mounted on said rotative casing and having an extension which may be contacted by said collar regardless of the rotative position of said casing and rack, and a gear connected to said pick-up finger and meshing with said rack, for transmitting motion from said trigger to said pick-up finger to move it from an operative position in which it is effective to wind the line upon said spool to an inoperative position in which the finger is removed from the interference with the casting of the line and the unwinding thereof from the spool.

2,658,698
DUAL SPRING TAKE-UP REEL
Louis Leroy, Altadena, Calif., assignor to McCaffrey-Ruddock Tagline Corporation, Los Angeles, Calif., a corporation of California
Application June 27, 1949, Serial No. 101,517
8 Claims. (Cl. 242—108)

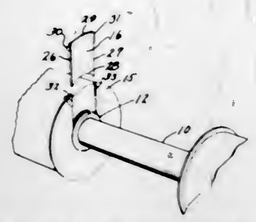


1. In a spring driven reel device: a support; a winding drum; a member carrying said drum; means rotatably mounting said member on said support including an element interposed between said member and said support and rotatable independently of said member; a coiled spring connected at one end to said support and at the other end to said element; and means for optionally connecting said member and said element in driving relation.

2,658,699
GUIDE FOR WARP BEAMS
Tobias Rovas, Cleveland, Ohio, assignor of forty per cent to Ohio Knitting Mills, Inc., Cleveland, Ohio, a corporation of Ohio
Application July 3, 1951, Serial No. 235,048
4 Claims. (Cl. 242—124)

1. A spacing device for use between sections of yarn on a warp beam comprising, a thimble having an aperture adapted to receive the beam and having an annular groove in the outer portion thereof, a pair of separable plates each having a notch adapted to occupy a portion of the groove in the thimble, one of the plates having a

recess therein defined by a pair of parallel walls which extend substantially tangentially to the thimble and the other of which has parallel sides



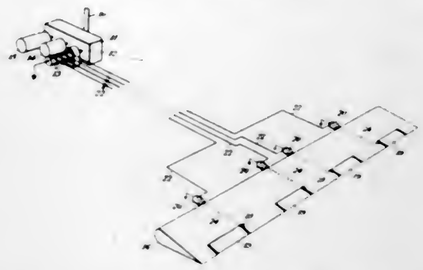
which are adapted to form an interfitting engagement with the walls of the recess, and interlocking tongue and groove connections between the plates.

2,658,700
TURBOCOMPRESSOR POWER PLANT FOR AIRCRAFT
Alun Raymond Howell, Neath, Wales, assignor to Power Jets (Research and Development) Ltd., London, England, a British company
Application August 2, 1945, Serial No. 608,482
In Great Britain July 28, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires July 28, 1963
2 Claims. (Cl. 244—15)



1. An elastic fluid compressor comprising a rotor; a ring of axially extending rotor blades attached thereto with their chord lines radially directed, each said blade being of impulse type and symmetrical about a line normal to and bisecting its chord line; a stationary casing enclosing said rotor and having a peripheral wall, said wall being apertured at diametrically opposite locations to define an inlet and an outlet said inlet being of greater area than said outlet, extending around only a comparatively small portion of the rotor periphery; means defining a radially directed inlet passage leading to said inlet, means defining a radially directed outlet passage leading from said outlet, and means forming a flow passage extending diametrically across the interior of the rotor and aligned with said inlet and outlet passages; a row of stator blades immediately downstream of the rotor blades at the inlet end of said diametral flow passage and a further row of stator blades in said outlet passage immediately downstream of the rotor blades, each said stator blade being of the reaction type.

2,658,701
FLYING CONTROL FOR AIRCRAFT
Frank Henry Robertson, Carisbrooke, Isle of Wight, assignor to Saunders-Roe Limited, Isle-of-Wight, England, a British company
Application October 12, 1949, Serial No. 120,917
5 Claims. (Cl. 244—82)



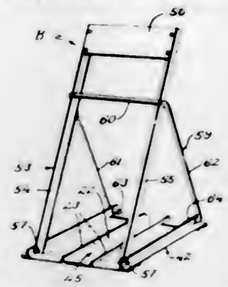
1. In an aircraft, the combination of a control surface, a servo tab hinged to the trailing edge of said control surface, a pilot's control member operative on said servo tab only, to the exclusion of said control surface itself, to initiate movement of said control surface, a variable speed power unit mounted on said control surface and constituting, in part at least, a mass balance therefor, an operative connection between said power unit and said servo tab, a connection between said pilot's control member and said power unit for rendering said power unit operative, whenever the pilot's control member is moved, to displace said servo tab to a position and at a rate determined respectively by the amplitude and rate of movement of the pilot's control member, and thereby to impart corresponding movement to the control surface, and means for terminating operation of said power unit on arrival of the servo tab at a position in relation to the control surface selected by the movement of the pilot's control member.

2,658,702
EMERGENCY EXIT MEANS FOR AIRCRAFT
Wilbur W. Osborne, Glen Rock, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application May 1, 1950, Serial No. 159,209
10 Claims. (Cl. 244—137)



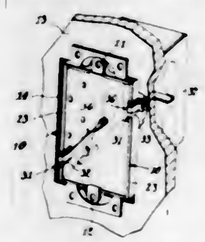
10. The combination with an aircraft fuselage having an opening in a substantially vertical said wall thereof, a door movably mounted upon said fuselage upon a substantially vertically disposed hinge axis arranged to serve as a closure for said opening, and bracket means swingably mounted on said door for movement between operative and inoperative positions with respect to said door, of emergency exit means including a plurality of telescoping tubular elements suspended from said bracket means, said telescoping tubular elements extensible by gravity from their support upon said bracket means and said door in the operative and opened position.

2,658,703
OUTBOARD MOTOR STAND
Raymond J. Brink, St. Paul, and Charles W. Tunstead, Minneapolis, Minn., assignors to Brinktun Company, St. Paul, Minn., a partnership
Application July 11, 1949, Serial No. 104,058
3 Claims. (Cl. 248—13)



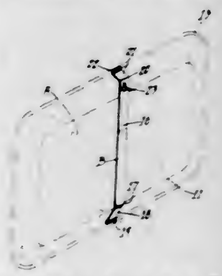
1. An outboard motor stand including a motor supporting frame having a pair of substantially spaced side members and a transversely extending connecting member connected between the said side members near the upper ends thereof, this connecting member comprising a block of substantially rectangular section to which the motor may be clamped, a second transverse connecting member connected between said side members near the lower ends thereof, an easel frame including substantially parallel side members pivotally connected near their upper ends to said side members of said motor supporting frame along aligned transverse pivots, a cross member connected between the lower ends of said easel frame side members, and a drip trough between the sides of said frames and extending from the second transverse connecting member of said motor supporting frame to the cross member connecting the lower ends of said easel frame, said drip trough including a plate member having opposed side flanges thereon and being narrow relative to the distance between the sides of said motor frame, one end of said drip trough being pivotally connected to one frame and the other end thereof being detachably connected to the other frame.

2,658,704
OUTLET BOX HOLDER
Hamilton Smith, Clifton, N. J.
Application July 29, 1950, Serial No. 176,683
5 Claims. (Cl. 248—27)



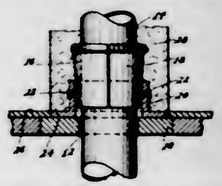
1. A retainer member for an electrical outlet box having an extension provided with a guide slot, said member comprising a metallic strip slidably fitting said guide slot, said strip having a spiral portion intermediate its end portions, one end portion of the strip being in a plane perpendicular to the plane of the other end portion and a jaw member extending laterally from one end portion and disposed in the plane of the other end portion, said strip being movable endwise in said guide slot to cause said slot to engage said spiral portion to rotate said strip and position said jaw member in a given position relative to said box.

2,658,705
TRAY HANGER
Elmore F. Whitman, Maywood, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application April 26, 1951, Serial No. 222,957
4 Claims. (Cl. 248—30)



1. A hanging device for a tray having a countersunk panel surrounded by a border wall terminating in a peripheral projection, comprising a flat strip of resilient material having a normally bowed central portion for application in substantially flat distorted condition against the back of the panel of said tray to thereby exert spring tension against the tray, an offset section of said strip at each end of said central portion being disposed at an angle thereto in the direction of the bow of said central portion for bridging the distance between the back of the panel and the peripheral projection along opposing edges of said tray, said offset sections each forming an obtuse angle with said central portion, an outwardly extending flange on the outer end of each said offset strip sections, said flanges being engageable beneath the peripheral projection along said opposing edges of said tray, and perforate means adjacent one end of said central strip portion for suspending an assembled tray and hanging device from a nail or the like.

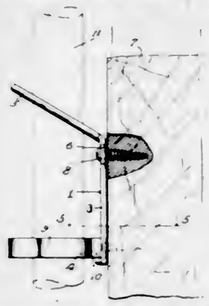
2,658,706
SUPPORTING PIPE CLAMP
Clayton B. Wright, Malden, Mass.
Application December 9, 1950, Serial No. 200,011
4 Claims. (Cl. 248—56)



1. A pipe-supporting clamp comprising a cylindrical sleeve adapted to loosely surround a pipe which is to be supported, a pair of clamping members adapted to engage around substantially the total circumference of the pipe and to have surface engagement with the pipe throughout a relatively wide surface area in axial direction along the pipe, whereby pressure of said clamping members is distributed over said relatively wide surface area substantially all

around the circumference of the pipe, said clamping members having exterior taper in said axial direction and having their smaller end portions enclosed within said sleeve and pressed within the sleeve into engagement with the walls of the sleeve whereby said clamping members become forced by the sleeve into clamping surface engagement with said pipe, and means on said sleeve for securing said clamping members and sleeve against relative movement when said clamping members are in clamping engagement with the pipe, said sleeve being adapted to engage at one of its ends against a relatively fixed abutment, and said smaller ends of the clamping members being insertible through the opposite end of the sleeve, and said securing means being adjacent to that end of the sleeve through which said smaller ends of the clamping members are insertible, whereby said clamping members and said securing means are at the same side of said relatively fixed abutment.

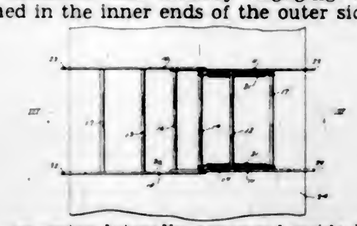
2,658,707
UTENSIL HOLDER
Henry B. Heuer, Flint, Mich.
Application June 20, 1951, Serial No. 232,521
1 Claim. (Cl. 248—113)



In a holder for utensils having elongated handles, a body comprising a single length of wire having a portion adjacent one end of the wire bent to form an arcuate loop inclined upwardly and adapted to receive a utensil handle, said wire extending downward in a vertical plane for a short distance from one end of the looped portion and bent to form an eye for receiving a fastening screw, the other end of the looped portion having a vertical leg extending downwardly therefrom, said vertical leg having a vertically upstanding reversely bent portion at its lower end, the wire extending upwardly in a vertical direction from said vertically bent portion and in alinement with said eye to form a second leg, said legs being closely spaced, said holder also including a clip having a narrow portion between the sides of which is fitted an upturned portion of the wire, said leg portions engaging the narrow portion of the clip, said clip having a screw receiving opening in its narrow portion providing for a fastening screw extending between said leg portions.

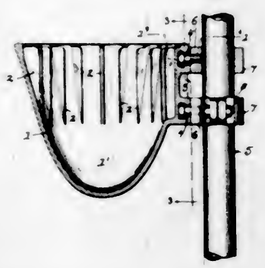
2,658,708
STAND FOR FLATIRONS
Fred Grosse, Williamsville, N. Y.
Application March 17, 1950, Serial No. 150,216
3 Claims. (Cl. 248—117.6)

3. A support for flatirons comprising a pair of relatively slidable rack members, one of said rack members comprising a pair of inner side members, the other rack member comprising a pair of outer side members, the outer side members being in overlapping and slidable engagement with the inner side members, both of said side members being spaced to accommodate a flatiron therebetween in non-supporting relation, a laterally arranged flatiron supporting bar carried by each pair of side members for supporting a flatiron independently of the side members, said supporting bars being disposed in a plane below the top surface of the side members, the inner adjacent ends of the side members being formed with elongated longitudinal slots, an inner laterally arranged guide bar carried by and connecting the inner ends of the inner side members, the ends of the inner guide bar extending beyond the outer surface of the inner side members and slidably engaging the slots formed in the inner ends of the outer side mem-



bers, an outer laterally arranged guide bar carried by and connecting the inner ends of the outer side members and slidably engaged with the slots of the inner side members, a downwardly extending clamp arm at the outer end of each side member for engagement with the edge of an ironing board, the supporting bars and guide bars being arranged in substantially the same plane to form an open supporting surface for a flatiron, a laterally arranged stop bar rigidly carried by each pair of side members near the outer end thereof and arranged above the plane of the guide bars and supporting bars whereby stops for the flatiron are formed by the stop bars and the upstanding side members, and means operatively engaging said rack members for resiliently urging said rack members toward each other.

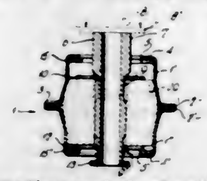
2,658,709
FEEDER CUP SUPPORT
Frank A. Kendall, Belgium, Wis.
Application April 2, 1948, Serial No. 18,551
1 Claim. (Cl. 248—230)



A clamping device for feed bowls and cups of the type having a hollow tapered body and a pair of spaced vertically aligned pads extending outwardly beyond the outer face of the body, the pads terminating in flat faces lying in the same vertical plane and bolts molded in the pads and projecting centrally and outwardly beyond the

same comprising, a pair of inner clips each having a flat base provided with a central threaded aperture and a semi-circular seat for engaging a post, the clips being rotatable upon the bolts for snug engagement with the flat faces of the pads, an outer pair of clips having semi-circular recesses in their inner faces for engaging a post, and clamping bolts connecting the inner and outer pair of clips together about a post.

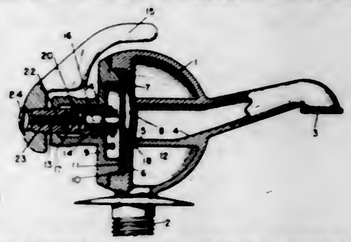
2,658,710
VIBRATION ISOLATION UNIT
Elwin S. Titus, Ridgewood, N. J., assignor to Robinson Aviation, Inc., Teterboro, N. J., a corporation of New York
Application May 4, 1950, Serial No. 159,993
3 Claims. (Cl. 248—358)



1. In a vibration and shock absorption mount, the combination of a load carrying stud, a pair of washers slidably mounted on said stud, said stud having stops limiting the outward movement of said washers but allowing inward relative movement of the washers toward each other, a compacted mass of springy wires between said pair of washers forcing them apart, said wires being intermingled and crimped at various points beyond their elastic limit so as to bind the wires together, the wires extending in various directions and contacting each other at innumerable points of support so that the short strands of wire between said points of support act as vibration absorption springs and the points of contact between the wires act as frictional snubbers, a casing surrounding said stud, washers and mass of springy wires, the inner diameter of said casing being considerably larger than the outer diameter of the washers to allow clearance for lateral movement, said casing having end walls with holes around the stud at both ends of said casing, said holes being larger than the stud to permit lateral movement of the stud against the mass of wires as well as axial movement relative to either washer, said washers being of greater diameter than said holes, resilient buffer rings between the inside of said end walls and the outer faces of said washers, said buffer rings having a greater outer diameter than said holes and a smaller inner diameter than the outer diameter of the washers so as to limit the outward movement of the washers, said buffer rings having a smaller internal diameter than the holes in the ends of the casing so as to extend inward beyond the edges of said holes and cushion the impact of the stud under excessive lateral vibration before it can strike the casing, whereby the load carrying stud can carry loads from all directions axially and radially.

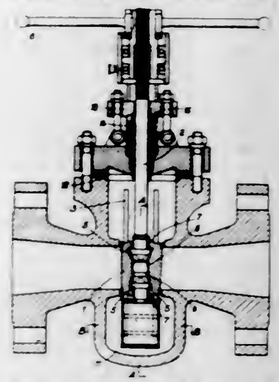
2,658,711
SELF-PROTECTING VALVE
Elmer G. Anderson, Portland, Oreg.
Application March 28, 1951, Serial No. 218,054
2 Claims. (Cl. 251—24)
(Granted under Title 35, U. S. Code (1952), sec. 266)

2. In a valve, the combination of a valve seat, a flexible diaphragm closure member therefor, a valve stem having a concentric dash-pot chamber therein, a plunger closely fitted within said dash-pot chamber and adapted to move a limited distance within said chamber in axial relation to said valve stem, said plunger including a shank extending through a liquid-sealed opening in the end of said valve stem toward said valve seat, a head on said shank to engage said flexible dia-



phragm closure member, resilient means in said dash-pot chamber positioned to urge said plunger toward said valve seat, said dash-pot chamber being liquid-filled to provide a damping action upon movement of said plunger, and means for moving said valve stem toward and away from said valve seat.

2,658,712
GATE VALVE
Friedrich Heinrich Stradtmann, Dusseldorf, Germany
Application August 18, 1949, Serial No. 110,904
3 Claims. (Cl. 251—68)

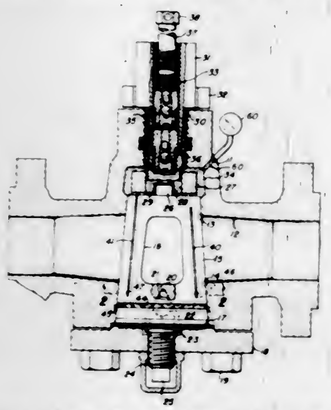


1. A gate valve comprising a pair of valve plates disposed in a housing, a valve stem including a section having direct engagement with and extending transversely of said plates and guiding rails defined in said housing having engagement with the peripheries of said plates, said stem section having a curved mid-portion in sliding engagement with the central areas of said plates and having upper and lower shoulder portions adjacent the ends of said curved mid-portion, and said plates having projections extending toward said stem section and defining recesses adapted to loosely engage said upper and lower shoulder portions.

2,658,713
AUTOMATIC LUBRICATION
George F. Scherer, Oakland, Calif., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 27, 1948, Serial No. 46,460
6 Claims. (Cl. 251—93)

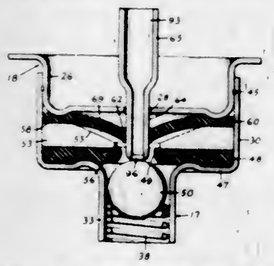
2. An automatically sealed plug valve assembly comprising relatively rotatable body and plug

members having cooperating fluid passages and ports, and sealing surfaces surrounding said ports spaced by a layer of plastic sealant; a plastic sealant reservoir; plastic sealant distributing channels between said reservoir and said plastic sealant layer extending at least partly around said ports in open and closed positions of the valve, said distributing channels comprising at least one sealing surface groove extending longitudinally of said members which is not exposed to line fluid in all positions of relative rotation of the valve members; an energized expansible body of plastic sealant in said reservoir and said distributing channels including a uniform stable



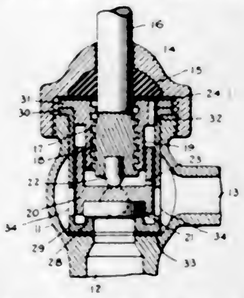
dispersion of small compressed discrete gas bubbles exerting sufficient pressure on the surrounding plastic to automatically force it into voids formed by operating losses in said plastic layer, whereby said layer of plastic sealant is continuously maintained between said sealing surfaces; and means for introducing plastic sealant into said reservoir and for maintaining pressure on the body of sealant plastic in the reservoir for keeping it energized and preventing its expansion except through said distributing channels, the energized plastic sealant in said channels being constantly expansible through its own energy to replace operating losses in said plastic layer.

2,658,714
DISPENSER VALVE ASSEMBLY
Irb Haskell Fooshee, Tenafly, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application February 16, 1950, Serial No. 144,535
6 Claims. (Cl. 251—115)



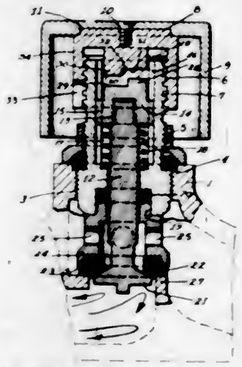
1. A valve assembly comprising a casing, a washer in the bottom thereof, a valve port in said washer having an inlet side and an outlet side opening into said casing, a valve and means for normally seating said valve in the inlet side of said port, an elastic sealing gasket on the outlet side of said port and having an opening in axial alignment with said port, a valve actuating pin projecting through said gasket opening and being movable through said port to unseat said valve and open said port, an annulus-like metallic spacer between said washer and said gasket, said spacer having an inwardly and downwardly inverted cone-shaped surface terminating in an opening in alignment with said port and having a cross-sectional area greater than that of said port, said spacer thereby forming a chamber-like recess between said gasket and said port and surrounding the projecting end of said pin, said washer, spacer and gasket being associated at the peripheries thereof with said casing in gas-tight relation; the periphery of said gasket opening being normally undersized, with respect to the immediately adjacent outer periphery of said pin, to such an extent that said gasket frictionally engages said pin tightly enough to move unitarily therewith during an initial part of a valve opening movement of said pin but loosely enough to slide with a sealing fit over said pin during a final portion of the valve opening movement of said pin, and a dispensing duct affording communication between the outlet side of said port and the atmosphere.

2,658,715
VALVE REPLACEMENT UNIT
Herman H. Kistner, Glen Ridge, N. J.
Application March 15, 1949, Serial No. 81,505
3 Claims. (Cl. 251—139)



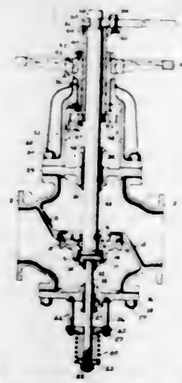
1. The combination with a valve body having axially alined inlet and valve operating openings and a transverse outlet opening and a cap covering the valve operating opening provided with a central opening for a valve stem, of a replaceable valve seat comprising a cylindrical cup having an opening in its bottom and an outer flange around its top, said flange contacting a circular seat on the side wall of said valve body, a packing member between the bottom of said cup and the inner wall of said valve body surrounding said inlet opening, an internally threaded bushing having an outer flange overlying the outer flange of said cup and a central shell spaced within said cup, means for securing said cap to said valve body with said outer flanges of the cup and bushing between it and the seat on said body to retain them in axially alined position, a cylindrical valve member fitting within said cup and having a circular recess in its bottom to receive a valve face and a circular recess in its top to receive the central shell of said bushing, and an externally threaded valve stem extending through said bushing having its outer end projecting through said cap and its inner end centrally contacting said valve member.

2,658,716
MANUAL AND AUTOMATIC VALVE
Robert N. Winfree, Lynchburg, Va.
Application May 31, 1950, Serial No. 165,284
5 Claims. (Cl. 251—141)



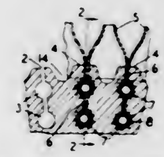
1. A valve for fluid systems comprising a casing, a closure disk and stem in said casing, said disk cooperating with a seat portion in the casing, manual means mounted on the casing for actuating the closure disk by means of its stem to open the valve and to partially close the valve down to where a slight opening still exists between the disk and the seat, and means in the casing and on the valve stem to automatically cause a final free closing of the valve after the manual partial closing operation has been completed, said last-mentioned means including a pair of projecting members one rigidly mounted on the end of the valve stem and the other mounted in the manual means so that upon closing of the valve the manual operation will take place while the projecting members are in contact but the automatic operation takes place at the end of the contact of the projecting members.

2,658,717
VALVE ACTUATING AND LATCHING MECHANISM
Ivan J. Acosta, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application June 25, 1947, Serial No. 756,847
9 Claims. (Cl. 251—164)



1. In a valve construction of the character described, a closure member, a reciprocably movable actuating stem cooperating with the said closure member, a rotatably mounted yoke sleeve, the said yoke sleeve being mounted for non-axial movement, an inner sleeve reciprocably movable within the said yoke sleeve and having means coacting between the inner sleeve and yoke sleeve to provide reciprocating movement, the said stem being slidably mounted in said inner sleeve, means for inhibiting rotation of said inner sleeve, means for rotating said yoke sleeve to thereby reciprocate said inner sleeve, stem latching means mounted on the said inner sleeve, the said stem latching means being engageable with an end portion of the said stem and transversely movable out of the path of stem movement and upon predetermined movement of said latching means out of the path of stem movement, the stem is axially movable relative to the said inner sleeve.

2,658,718
MANUFACTURE AND ATTACHMENT OF TURBINE AND LIKE BLADING
Daniel Norman Walker, Manorcroft, Ashby Parva, near Rugby, England, assignor to Power Jets (Research & Development) Limited, London, England
Application December 12, 1945, Serial No. 634,592
Claims priority, application Great Britain December 22, 1944
6 Claims. (Cl. 253—39.15)

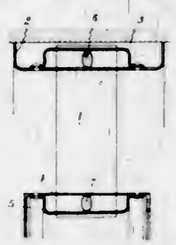


1. An axial flow gas turbine rotor assembly comprising a rotor wheel having around its periphery a plurality of axially extending slits each opening out, below the periphery, into an axially extending blade anchorage hole, a plurality of hollow tubular sheet-metal blades disposed around the periphery of said wheel, two peripherally spaced and separately anchored root portions on each said blade, one being a generally radially inward continuation of one of the axially extending sheet metal walls of the blade fitting in one of said slits and passing therethrough into a blade anchorage hole wherein it is bulged out to fit the hole, the other of said root portions being a similar continuation of the opposite wall of the blade likewise disposed in another one of the said slits and holes, in combination with a blade-retaining peg extending through each said anchorage hole and engaging said bulged blade-root portion.

2,658,719
MOUNTING AND FIXING OF TURBO-MACHINE FIXED BLADES
Knut Johanson, Montigny-les-Cormeilles, France, assignor, by mesne assignments, to Société Anonyme so-called: Compagnie Electro-Mecanique, Paris, France, a French corporation
Application October 17, 1950, Serial No. 190,521
Claims priority, application France October 26, 1949
4 Claims. (Cl. 253—78)

1. In a turbo-machine, means for removably but lockingly securing the blades of the machine, said means comprising a pair of rings for receiving the respective ends of the blades, at least one of said rings being formed from a first annular member of channel-shaped cross section having a base portion and arm portions and a second annular member of channel-shaped cross section

having a base portion and arm portions positioned between the arm portions of and secured to said first member, said first member having its arm portions directed radially outwardly and said second member having its arm portions directed radially inwardly whereby a closed annular channel is defined between the base of the first member and the base of the second member, the bases of said first member and said second member being provided with aligned slots for receiving said blades of the machine, said blades being of uniform cross section substantially throughout their length and said slots corresponding in cross-



section to the cross-section of said blades, each of said blades being provided with at least one aperture having a width in the radial direction of the blade equal to the distance between the bases of said first member and said second member and spaced inwardly from the end of the blade to coincide with said annular channel when the blade extends through the slots in said first member and in said second member, and a locking ring passing through said aperture in each blade, said blades being thereby lockingly secured to said ring but being removable therefrom merely by withdrawal of said locking ring.

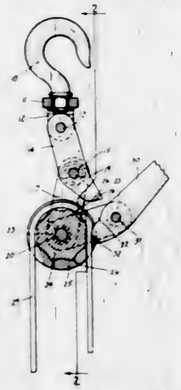
2,658,720

TENSIONING AND PULLING DEVICE

Fredrick W. Coffing, Danville, Ill., assignor to Coffing Hoist Company, Danville, Ill., a corporation

Application November 25, 1949, Serial No. 129,248

1 Claim. (Cl. 254—167)



A pulling device comprising in combination a shaft, a corrugated wheel mounted on said shaft over which a flexible belt is adapted to ride for pulling a load, a pair of links pivotally connected to said shaft at opposite sides of said wheel, a holding pawl member pivotally mounted intermediate its ends between the free ends of said links having a holding nose at one end thereof of engageable with said belt to force it into the corrugations of said wheel, supporting means carried by said member at the other end thereof, said holding pawl member being so disposed on its pivotal axis that the load pull will move its nose into wheel holding position, a second pair of lever carrying links pivotally mounted on said shaft beyond the sides of said wheel, and an operating lever pivotally supported by the free ends of said links having a belt engaging nose extending beyond its pivotal connection disposed to force said belt into the corrugations of said wheel in a direction to swing said wheel away from said holding nose.

2,658,721

AUTOMATIC HOIST AND BINDER

Fredrick W. Coffing, Danville, Ill., assignor to Coffing Hoist Company, Danville, Ill., a corporation

Original application March 9, 1950, Serial No. 148,727. Divided and this application May 10, 1952, Serial No. 287,237

7 Claims. (Cl. 254—167)



1. In a structure for operating a flexible normally inextensible load support and having a housing including an axle and a load wheel rotatably supported upon said axle for carrying said support, in combination therewith, a load holding pawl pivoted upon said housing normally biased into load holding position for holding said wheel and load support, a supporting link pivotally mounted on said housing concentrically of said axle, an operating lever fulcrumed on one end of said supporting link having a load pawl at one end and a handle extension at the other end thereof, said load pawl being movable into and out of load operating position upon rocking said lever about its fulcrum, a latch pivotally mounted on said housing, a latch engaging member on said holding pawl, a cam extension on the opposite side of said link from said lever movable into engagement with said latch for forcing it into pawl latching position against said latch engaging member for retaining said holding pawl in inoperative position, and a latch releasing projection on said link in opposed and spaced relation to said cam extension thereon to provide for lost motion actuation, said releasing projection being engageable with said latch for freeing it from said latch engaging member and permitting said holding pawl to become effective, said lever and load pawl being effective to manipulate the load through the lost motion movement intermediate the said latch engaging positions of said cam extension and releasing projection.

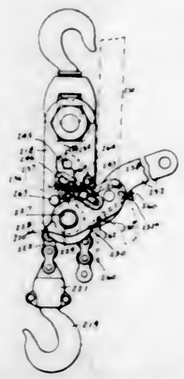
2,658,722

AUTOMATIC HOIST AND BINDER

Fredrick W. Coffing, Danville, Ill., assignor to Coffing Hoist Company, Danville, Ill., a corporation

Original application March 9, 1950, Serial No. 148,727. Divided and this application May 10, 1952, Serial No. 287,238

6 Claims. (Cl. 254—167)



1. In a structure for operating a flexible normally inextensible load support and having a housing including an axle and a load wheel rotatably supported upon said axle for carrying said support, in combination therewith, a load holding pawl pivoted upon said housing normally biased into load holding position for holding said wheel and load support, a supporting link pivotally mounted on said housing concentrically of said axle, an operating lever fulcrumed on one end of said supporting link having a load pawl at one end and a handle extension at the other end thereof, said load pawl being movable into and out of load operating position upon rocking said lever about its fulcrum, a latch pivotally mounted on said housing, a latch engaging member on said holding pawl, and a lost motion linkage connecting said latch and supporting link, said linkage having a pair of aligned spaced elongated slots for sliding engagement with projections on said latch and supporting link respectively, to permit effective load pawl actuation to manipulate the load through the lost motion movement of said projections within said slots, and swing said latch into and out of its latching position upon said projections reaching their limit of movement in said slots when said supporting link and operating lever are at one or the other of their extreme positions.

2,658,723

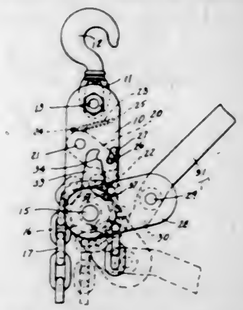
FULL AUTOMATIC HOIST

Fredrick W. Coffing, Danville, Ill., assignor to Coffing Hoist Company, Danville, Ill., a corporation

Application August 4, 1951, Serial No. 240,405

15 Claims. (Cl. 254—167)

1. A structure of the character described comprising, in combination, a housing, a rotatable wheel rotatably supported by said housing, a holding pawl pivotally supported upon said housing and normally biased toward holding position relative to said wheel, a pair of supporting links pivotally mounted on said housing and coaxially with said rotatable wheel, an operating pawl operatively associated with said wheel pivotally supported by said links, an operating lever rigid with said operating pawl, a cam member for moving and holding said holding pawl



in inoperative position, and means carried by said links for controlling the movement of said cam member into and out of operative position.

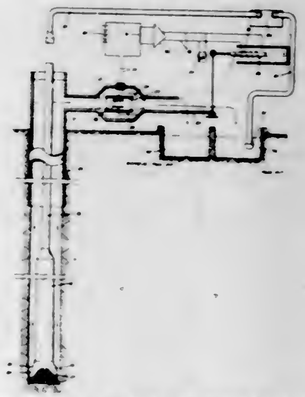
2,658,724

WARNING SYSTEM FOR CONTROLLED ROTARY DRILLING

Jan Jacob Arps, Tulsa, Okla.

Application May 23, 1949, Serial No. 94,782

5 Claims. (Cl. 255—1)



1. An arrangement for determining an excessive rise in temperature at a predetermined inaccessible location in subsurface drilling equipment, said drilling equipment being used in conjunction with a drilling fluid circulating system, comprising: a solid tracer substance having a relatively low melting point and imbedded in said subsurface equipment at said inaccessible location, said tracer substance being in contact with said circulating system, whereby an excessive rise in temperature causes said substance to melt and allows said circulating system to carry said substance to the earth's surface; and means at the earth's surface to detect said tracer substance, the presence of said substance being associated with said excessive rise in temperature.

2,658,725

SIGNAL TRANSMISSION SYSTEM FOR USE IN LOGGING DRILL HOLE FORMATIONS

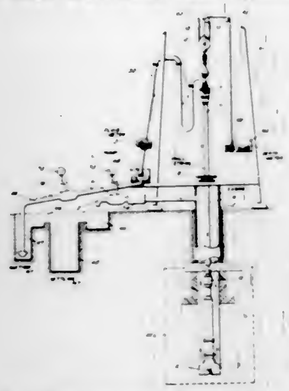
Jan Jacob Arps, Tulsa, Okla.

Application October 31, 1947, Serial No. 783,280

20 Claims. (Cl. 255—1)

1. Apparatus for determining values of one of the characteristics of formations traversed by a drill hole which extends from the earth's sur-

face into the earth, including in combination with a drilling fluid circulating system a rotary drilling tool comprising: a drill collar and a drill bit; means secured near the end of said tool and encased in said drill collar and operative in response to said values for releasing into the fluid traversing said system a tracer



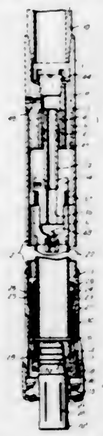
substance in an amount representing said values of said characteristic; and measuring means positioned at the earth's surface in the vicinity of said circulating system for measuring the amount of tracer substance in said fluid, thereby to provide an indication representing said values of said characteristic.

2,658,726

CORE TAKING APPARATUS

John C. Stokes, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas

Application November 8, 1948, Serial No. 58,829
11 Claims. (Cl. 255—72)



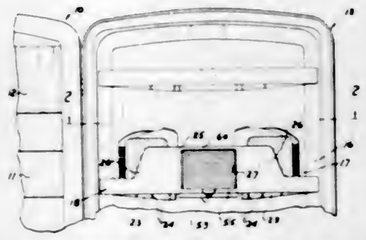
1. The combination with a core-taking apparatus which includes a drill pipe and core bit, of an inner core-receiving barrel, means for establishing communication between the upper end of the barrel and the area exteriorly of the drill pipe, means for establishing communication between the upper end of the barrel and the interior of the drill pipe, a removable closure for each communication-establishing means whereby the barrel may be selectively vented to the interior or exterior of said drill pipe, and a downwardly closing check valve located below the means for establishing communication between the upper end of the barrel and the area exteriorly of the drill pipe to permit venting of the barrel while preventing downflow therethrough.

2,658,727

SHELF AND CONTAINER FOR REFRIGERATOR CABINETS

Floyd R. Eck, Des Plaines, Ill., assignor to Motors Products Corporation, Detroit, Mich., a corporation of New York

Application July 16, 1951, Serial No. 237,017
13 Claims. (Cl. 257—3)



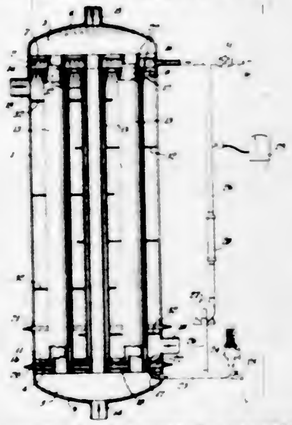
1. In a refrigerator cabinet having a refrigerated compartment and having a wall forming one wall of the compartment, a shelf supported on said wall and extending into the compartment, said shelf having a vertically extending inverted U-shaped part open at the bottom of the shelf to admit air circulating within said compartment and also open at the side of the shelf facing the interior of the compartment, a container supported by the shelf within the U-shaped part and having an access opening registering with the open side of the U-shaped part, a closure for the access opening mounted on the container for movement to open and closed positions, and means for varying the temperature of the atmosphere within said container.

2,658,728

METHOD OF DETECTING LEAKAGE BETWEEN HEAT TRANSFER FLUIDS

George W. Evans, Jr., Teaneck, N. J., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application June 25, 1948, Serial No. 35,162
3 Claims. (Cl. 257—228)



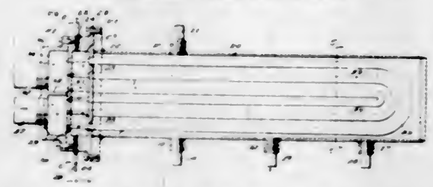
1. The method of indirectly transferring heat from a first fluid to a second fluid and detecting leakage of either of said fluids, which comprises introducing a liquid having suitable heat transfer qualities into a closed independent path completely within one of the fluids and completely surrounding the other of said fluids, whereby the desired heat transfer from the first fluid to the second fluid is through the liquid, and employing said liquid to indicate leakage thereto of one of said fluids.

2,658,729

PREHEATER-TYPE HEAT EXCHANGER

Saul Horwitz, Jersey City, N. J.

Application June 1, 1949, Serial No. 96,494
2 Claims. (Cl. 257—237)



1. In a preheater, a shell provided with an open end, an annular flange arranged adjacent to the open end of said shell and secured thereto, a body member secured to said flange for closing the open end of said shell, said body member having a chamber therein, conduit means connected to said chamber for the ingress and egress therethrough of fluid, said conduit means comprising a first conduit extending through said body member for conveying fluid from a source of supply to said chamber, and a second conduit extending to said body member and adapted to convey fluid from the chamber to a sight glass, there being a plurality of spaced openings in said body member, a header releasably connected to said body member, a partition arranged in said header and coacting with the latter to define a pair of compartments, a first set of U-shaped tubes of different sizes extending longitudinally through said shell and through the openings in said body member, the lower ends of said tubes being arranged in communication with one of said compartments and the upper ends of said tubes being arranged in communication with the other of said compartments, conduit means communicating with said compartments for the ingress and egress therethrough of the fluid being heated, a second set of U-shaped tubes extending longitudinally through said shell and each having an end communicating with said chamber, each of the tubes of said first set being arranged in concentric relation with respect to a corresponding tube of said second set and defining a space therebetween for the circulation therethrough of the fluid from said chamber, conduit means connected to said shell for the conveyance therethrough of a heating medium, a plurality of bushings secured to the bottom of said shell, and an upright arranged in engagement with each of said bushings for supporting said preheater.

2,658,730

SERVING, MIXING, AND COOKING UTENSIL

Jean Mignolet, Denver, Colo.

Application March 3, 1952, Serial No. 274,541
4 Claims. (Cl. 259—144)

1. A food serving, mixing and cooking tool of the kind referred to comprising a single piece of material formed to have a generally rectangular body portion with its longer side being not greater than twice the length of its shorter side and an integral handle extending from one end, said body portion also being of a length less than one-half the length of the handle and made relatively thin with its longer side edges substantially straight and its end opposite the handle having a substantially straight edge at right angles to the longitudinal axis of the tool, said



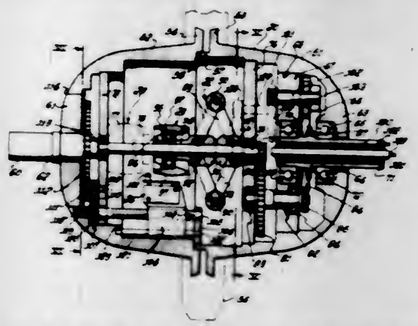
body portion having on at least one face a centrally positioned dished surface which is surrounded by a flat surface all in a single plane and being of substantial width and length but with an area not greater than one-half the area of the face of the body portion and said body being provided with an opening therethrough at the central portion of the dished surface.

2,658,731

RECORDING DEVICE FOR CONCRETE MIXING DRUMS

Raymond G. Osborne, Los Angeles, and Robert O. Boykin, Glendale, Calif., assignors, by direct and mesne assignments, of one-fourth to said Raymond G. Osborne, one-fourth to Raymond G. Osborne, Jr., one-fourth to Howard S. Osborne, and one-fourth to Philip S. Osborne

Application February 5, 1952, Serial No. 269,938
14 Claims. (Cl. 259—175)



1. In a device for measuring and recording mixing conditions for a rotatable concrete mixing drum, the combination of: a pivotally mounted rotatable hollow housing; spring means for biasing said housing into rolling engagement with a periphery of said drum; speed responsive means operable within said housing and including an axially movable switch actuator member; a movable record chart provided with time in-

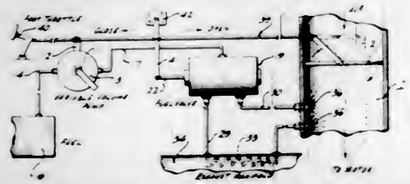
dicia; time means for moving said chart; marking means for said chart; and circuit means including switch means within said housing intermittently actuated by rotation of said housing into closed position, adjustably positioned switch means carried within said housing in cooperable relationship to said actuator member and adapted to be closed thereby when the housing is rotating at a preselected speed, and solenoid means electrically connected to both switch means for oscillating said marking means when both switch means are in closed position.

2,658,732

FUEL CARBURETION SYSTEM

James W. F. Holl, Temple City, Calif.

Application September 8, 1952, Serial No. 308,491
8 Claims. (Cl. 261—15)



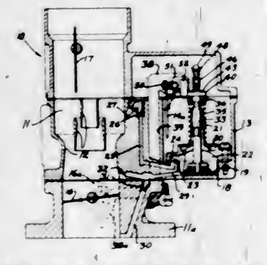
1. A fuel carburetion system including an intake manifold, a throttle valve rotatably mounted in said manifold, two spray nozzles each extending into the manifold adjacent said throttle valve, a variable volume fuel pump, means on the pump to adjust the volume of said pump, a control valve, said control valve having a piston slidably mounted therein, said valve having an intake port, a pipe extending from the fuel pump to the intake port, two outlet ports in said valve, a pipe extending from one of said ports to one of the spray nozzles, a second pipe extending from the second port to another of the spray nozzles, and means to manually adjust said piston in the valve to direct flow to either of said outlet ports.

2,658,733

ACCELERATING PUMP CONTROL FOR CARBURETORS

Henry A. Boller, Pontiac, Mich., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application November 6, 1950, Serial No. 194,289
2 Claims. (Cl. 261—34)



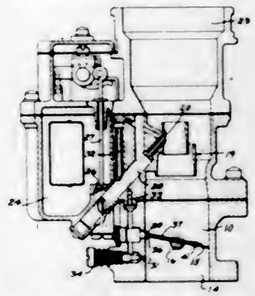
1. In a carburetor, an induction conduit having a throttle, a fuel bowl for supplying fuel to said conduit, a fuel metering valve in said bowl, alternative devices for operating said valve in one direction comprising a first device responsive to pressure, including a suction chamber, an actuator in said suction chamber, a lost motion connection between said actuator and said valve, and a spring normally urging said metering valve in a direction opposing the effect of suction on said actuator, and a second device responsive to throttle opening including a positive acting connection between said throttle and said valve, said first device also including a means for operating said valve in the opposite direction comprising a resilient connection between said actuator and said valve acting to resist movement of said valve by said second device when opposed by said first device, whereby said valve may be positioned by said second device independent of said first device, means for increasing or decreasing the effectiveness of said resilient connection on valve displacement in response to throttle opening comprising a connection between said suction chamber and said conduit posterior to said throttle, and an atmospheric bleed extending from said connection to said conduit anterior of said throttle.

2,658,734

CARBURETOR DE-ICING MEANS

Otto Henning, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application August 26, 1949, Serial No. 112,432
3 Claims. (Cl. 261—41)



3. In a carburetor having a fuel mixture passage and a fuel port open to said passage, a butterfly throttle valve in control of said passage and port, and a thermostatic element having a free part located immediately adjacent the periphery of said valve, adjacent said port, at temperatures above freezing, said free part of said element being constructed to flex, upon reaching freezing temperature, so as to break ice formed thereon.

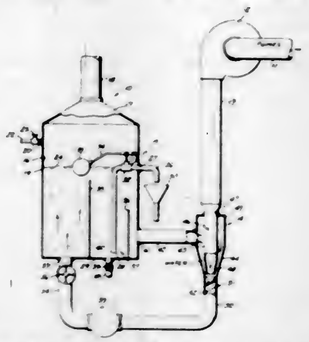
2,658,735

GAS-LIQUID CONTACT APPARATUS FOR REMOVING CONTAMINANTS FROM GASES

Vincent C. de Ybarrondo, San Fernando, Calif.

Application August 10, 1950, Serial No. 178,728
1 Claim. (Cl. 261—77)

An apparatus for removing contaminants from a gas including: a washing liquid contained in a liquid reservoir; a source of contaminated gas; a mixer directly connected to said source and connected to the liquid reservoir by means of a first line; means for withdrawing liquid from the liquid reservoir through said first line to the mixer for mixing the liquid and contaminated gas; a second line connecting the mixer and the liquid reservoir, said second line having agitating means therein for agitating the resulting mixture, said agitating means comprising a spiral flange projecting outwardly from the wall of said second line into the path of flow of the mixture to the liquid reservoir; and pressurizing means for subjecting the mixture to pressure within the second line to cause at least a portion of said contaminants to go into solution in the liquid, said pressurizing means including a pump for pressurizing the mixture and a valve adapted



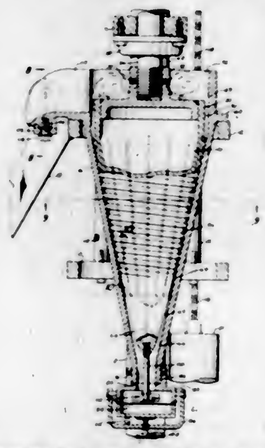
to restrict the flow of said pressurized mixture into said liquid reservoir.

2,658,736

APPARATUS FOR THE MANUFACTURE OF FOAMED PRODUCTS

Sterling W. Alderfer, Akron, Ohio, assignor of three-tenths to Edward D. Andrews, Akron, Ohio

Application April 15, 1950, Serial No. 156,202
15 Claims. (Cl. 261—93)



1. An apparatus for aerating and beating a liquid such as rubber latex comprising a conical rotor and a conical shell surrounding the rotor, means for driving the rotor, the surface of the rotor and the opposing surface of the shell being formed with ribs which cross one another, the tops of the opposing ribs being closely spaced so that liquid passing between them will be subjected to a shearing action, and means for introducing a continuously flowing stream of fluid and air into the apex of the shell.

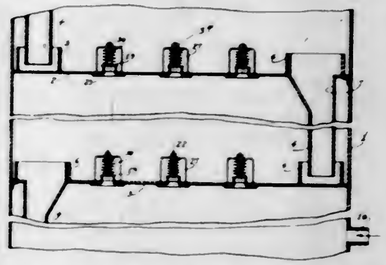
2,658,737

MEANS FOR FLOW CONTROL IN BUBBLE TOWERS

Irvin E. Nutter, Amarillo, Tex.

Application March 10, 1950, Serial No. 148,945
1 Claim. (Cl. 261—114)

In a gas and liquid contact apparatus of the class described, a horizontally disposed tray plate upon which liquid can accumulate to a desired level, said tray plate having a plurality of openings, each of said openings constituting a flow passage and having a flow controlling seat, an element engageable with said seat for closing the openings, spring means operatively connected to said element for normally maintaining the same in engagement with said seat, means for introducing liquid into the apparatus above said tray plate, and means for introducing gas into the apparatus below the tray plate, the tension



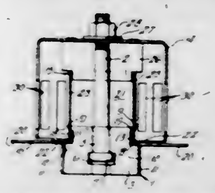
of the spring means being such that the displacement of said element from its seat and thereby the resistance to gas flow is proportional to the pressure differential across the tray to simultaneously raise the elements away from their seats so that the passages provide a plurality of uniformly distributing gas streams which are brought into intimate contact with the liquid carried by the tray at relatively high velocity so as to break up the gas into fine bubbles during the operation of the apparatus.

2,658,738

HOLDING DEVICE FOR BUBBLE CAPS

George W. Ploessl, West Springfield, and Frederick E. Neef, Jr., Longmeadow, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts

Application January 4, 1952, Serial No. 264,872
1 Claim. (Cl. 261—114)



A holding device for a bubble cap, adapted to be mounted in an elongated opening in a bubble tray comprising, a cross-bar and a hold-down bolt fixed centrally to and upstanding therefrom, said cross-bar consisting of two strips of inelastic material fastened together face to face and having in each of its two opposite ends a notch and upper and lower projections respectively above and below the notch, each pair of upper and lower projections being located in the same plane, the adjacent surfaces of each pair of upper and lower projections being straight and parallel and forming the upper and lower walls of the notch, and a straight end wall interconnecting each pair of upper and lower walls at right angles thereto, the upper walls of both notches being located in the same plane and the lower walls of both notches being located in the same plane, said upper and lower walls being spaced apart to respectively engage the upper and lower surfaces of the

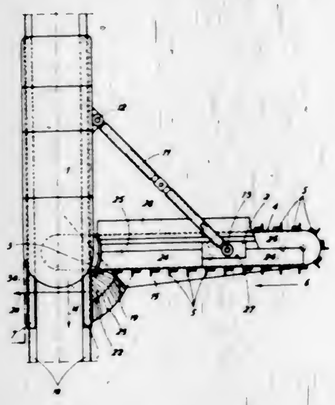
tray adjacent the opening therein, the distance between said end walls being greater than the width of the opening in the tray, those portions of the strips which form the lower projections being of unequal length with one projection extending beyond the other at each end of the cross-bar, the longer projections each being bent at an obtuse angle to the adjacent shorter projection.

2,658,739

COAL CUTTING OR LOADING MACHINE

Jean Maurice Quoniam, Heinitz, Sarre, France, assignor to Regie des Mines de la Sarre, Sarrebruck, France

Application April 1, 1950, Serial No. 153,379
Claims priority, application France April 15, 1949
6 Claims. (Cl. 262—30)



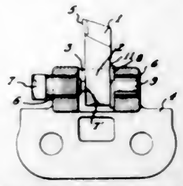
1. A combination coal cutting and coal loading machine adapted to be transformed alternately for cutting and for loading at the site of operations, comprising a carriage, a boom pivoted to said carriage and inclined downwardly toward its free end to rest upon the mine floor substantially only at said free end, said boom having a coal-engaging forward side and a rear side, an endless coal conveying paddle chain removably mountable upon said boom, said boom being constructed to support alternately said endless coal conveying paddle chain and an andless coal cutting chain, said paddle chain and said cutting chain being adapted to be temporarily secured to and removed from said boom at will and to be driven by the same driving means, coal deflecting means rigidly but removably secured to said boom on the coal-engaging side thereof for cooperating with the conveying chain paddles to elevate the coal gradually to a discharge point at the pivoted end of said boom and substantially above the free end thereof, coal separating means rigidly but removably mounted on the top surface of the boom for preventing the coal from passing over the boom, protective means on the rear side of said boom rigid with said separating means for protecting the miners from injury by the paddles of the paddle chain, extensible means pivotally connecting said boom with said carriage to hold the boom in predetermined position, an opening in said deflecting means at the upper end thereof to permit pivotal movement of the boom, and closing and guiding means fixed to said carriage for filling said opening to prevent coal from passing thereinto and to guide the coal ahead of the opening.

2,658,740

BIT AND BIT CLAMP

John D. Dann, Cincinnati, Ohio, assignor to The Cincinnati Mine Machinery Co., Cincinnati, Ohio, a corporation of Ohio

Application December 3, 1949, Serial No. 130,887
1 Claim. (Cl. 262—33)



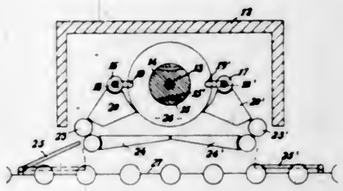
In combination in a cutter chain, a bit block having a bit receiving aperture, an opposed pair of walls of which are vertically disposed and interrupted intermediate their upper and lower ends by opposed set screw holes extending outwardly through the bit block, a bit clamp consisting of a flat body portion and a rearwardly projecting lug, said body portion being of a length and width substantially equal to the length and width of the said opposed walls of the aperture, the rear surface of said body portion lying in face-to-face contact with one of the said opposed walls with the said lug extending into the set screw hole in the last named wall, the outer surface of said body portion having horizontally disposed serrations extending throughout its length, whereby to provide in said aperture an uninterrupted wall surface which is serrated throughout its length, a bit having a shank fitted in the aperture in said block between the said bit clamp and the opposite wall of the aperture, said shank having horizontally disposed serrations extending along the face thereof facing the body portion of said clamp, and a bit retaining set screw in the screw hole opposite said bit clamp, said set screw contacting the face of said bit opposite the face thereof containing said serrations, whereby to clamp the shank of said bit against the body portion of said clamp with the said serrations in mating engagement.

2,658,741

ROLLING MILL FOR ROLLING STRIPS OR BANDS AND SHEETS OF STEEL AND NON-FERROUS METALS

Job Schmidt and Ferdinand Frielinghaus, Dortmund, Germany, assignors to Westfalenhutte Dortmund Aktiengesellschaft, Dortmund, Germany, a German company

Application June 13, 1949, Serial No. 98,662
Claims priority, application Germany
April 11, 1949
4 Claims. (Cl. 263—3)



1. A heating furnace for rolling strips of steel or non-ferrous metals adapted to be arranged in

a roller train comprising a housing, a reversible reeling drum rotatable within said housing and spaced from the sidewalls thereof, said drum having a slot extending inwardly from the cylindrical portion of the periphery thereof to receive the end of a strip to be wound thereon, identical guide devices in said housing at each side of the drum symmetrically arranged with respect to the axis of the drum, said guide devices each including a roller supported in said casing on each side of the drum for movement towards and away from the drum and a stripping member concentric with and rotatable about the axis of said roller for movement to and from operative position to enable a strip to be fed to and reeled upon the drum from one side or the other and to be guided from the drum in either direction to the fed-in direction.

2,658,742

CATALYTIC FUME INCINERATION

Harold R. Suter, Wyandotte, and Richard J. Ruff, Detroit, Mich.

Application January 9, 1950, Serial No. 137,638
19 Claims. (Cl. 263—3)



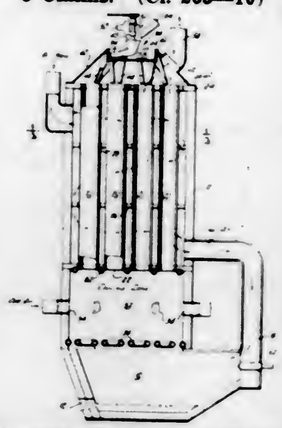
9. In an apparatus of the character described, an insulated casing, an inlet duct having a discharge port, a burner chamber, a heat producing catalyst element and an exhaust duct leading to the atmosphere; said port lying within said burner chamber and said element being mounted between said chamber and said exhaust duct and means to cause the hot gases leaving said element to pass along said inlet duct in heat exchanging relationship to said exhaust duct.

2,658,743

MELTING FURNACE

Sidney Spell, Somerville, and Edward R. Powell, North Plainfield, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application October 21, 1949, Serial No. 122,764
5 Claims. (Cl. 263—10)



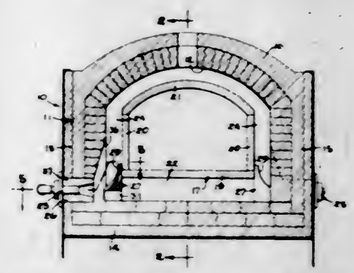
1. In a furnace for reducing material to molten form, a combustion chamber having a top portion and an opening in the top portion extending over the major area of the chamber, a stack having a hollow, open end first portion connected to said top portion and in communication with the chamber through the opening in said top portion and providing a cooling zone for hot gases of combustion issuing from the chamber, means connected with said first portion for circulating a cooling fluid within said cooling zone, said means including pipes extending across said cooling zone and connected to a source of cooling fluid, said stack having a second portion, said second portion being connected with the first portion, a plurality of tubes supported within said second portion and distributed in spaced relationship throughout its area, each of said tubes having an open first end in communication with the cooling zone and an open second end located remotely from the cooling zone and serving to exhaust combustion gases from the second portion of the stack, means in the stack adjacent the first ends of the tubes closing the second portion of the stack, except for the tubes, against egress of combustion gases through the stack, and means communicating with the second ends of the tubes for distributing unmelted material into said tubes for passage to said combustion chamber in a direction counter-current to the flow of the combustion gases.

2,658,744

MUFFLE FURNACE

Harold N. Ipsen, Rockford, Ill.

Application June 18, 1951, Serial No. 232,158
6 Claims. (Cl. 263—42)



6. A combustion gas distributing member for use in a muffle type heat treating furnace, said member comprising a block of refractory material adapted to be disposed in alinement with a furnace burner, and means on the lower portion of said block defining an elongated channel extending from the front to the back side of the block to permit the passage of a portion of the combustion gases therethrough, the front side of said block defining a deflecting surface extending upwardly above said channel and twisted laterally to deflect another portion of the gases upwardly and laterally relative to the block.

2,658,745

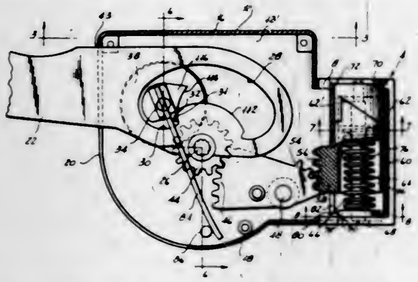
CLOTHES SCALE FOR WASHING MACHINES

Henry F. Howard, Paterson, N. J., assignor of one-fourth to Alfred W. Vibber and five per cent to John Gemmink, both of Paterson, N. J.

Application June 26, 1950, Serial No. 170,365
12 Claims. (Cl. 265—68)

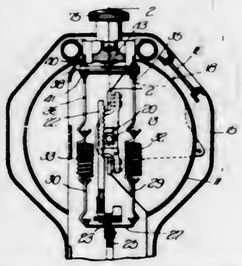
1. A weighing device comprising a main housing, means to mount the housing on a supporting member, a load receiving scale lever pivoted in the housing, said lever having an outer arm projecting from the housing, the outer end of

the scale lever lying substantially horizontal, an indicating means on the housing connected to the scale lever to indicate the amount of deflection of the lever, at least two means within the housing operatively connected with the scale



lever yieldingly to oppose said deflection of the scale lever, and means responsive to the imposition of a substantial overload on the scale lever for disconnecting at least one of such last named means from the lever.

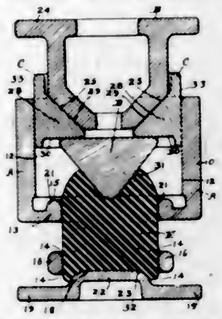
2,658,746
TARE ADJUSTMENT DEVICE
Edward C. Karp, Belvidere, and Sven G. Berglund, Rockford, Ill., assignors to Sanitary Scale Company, Belvidere, Ill., a corporation of Illinois
Application June 13, 1951, Serial No. 231,296
6 Claims. (Cl. 265—68)



1. In a scale construction, a rotatable indicating drum, means for rotating the drum, and adjusting means for moving the means rotating the drum, said adjusting means comprising a vertically movable rod, a zero adjusting member adjustably connected to the rod, and tare adjustment means associated with the zero adjusting member for jointly moving the rod and zero adjusting member.

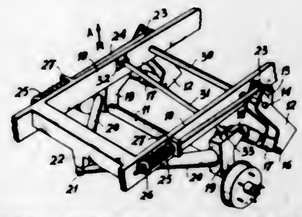
2,658,747
FRICTION SHOCK ABSORBER FOR RAILWAY CAR TRUCKS
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application July 23, 1949, Serial No. 106,477
3 Claims. (Cl. 267—9)

1. In a friction shock absorber, the combination with a friction casing; of friction shoes slidingly telescoped within the casing; a member movable inwardly with said shoes; a wedge in wedging engagement with the shoes; and a rubber cushioning element within the casing engaged by said member and yieldingly opposing movement of said shoes inwardly of the casing, said rubber cushioning element snugly fitting within the casing and said casing being provided with



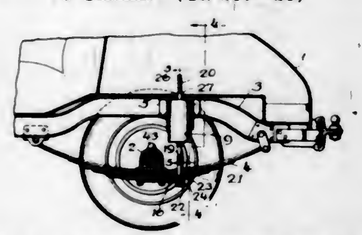
openings to permit lateral expansion of said element at said openings.

2,658,748
VEHICLE SPRING SUSPENSION SYSTEM
Luigi Premoli, Milan, Italy
Application April 2, 1952, Serial No. 280,133
Claims priority, application Italy June 24, 1948
8 Claims. (Cl. 267—20)



1. An elastic suspension for a vehicle body on the wheel axle comprising in combination a two-armed lever pivotally connected to the vehicle body; an elastic member extending between, pivotally connected to and tending to draw together one of said lever arms and the wheel axle and substantially at right angles to the wheel axle; said lever being pivotable between two terminal positions where said elastic member extends in a vertical and in a horizontal direction, respectively; and an elastic means pivotally connected to the vehicle body and to the other arm of said lever and tending to rotate said lever towards the terminal position at which said elastic member extends horizontally.

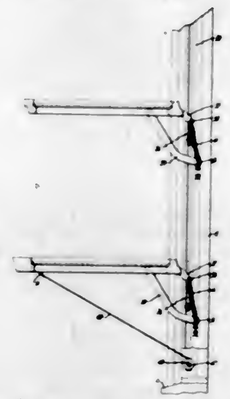
2,658,749
ADJUSTABLE OVERLOAD SPRING DEVICE
Alexander J. Ailetto, Chicago, Ill.
Application May 11, 1951, Serial No. 225,767
6 Claims. (Cl. 267—28)



1. An adjustable overload spring device mounted between the axle housing and frame of an automotive vehicle, comprising, a rod fixedly

mounted adjacent its bottom end to the axle housing, an abutment plate on said rod and fixed against downward movement thereon, a spring containing cylinder fixed to said frame to move therewith, a pressure disk having threaded engagement with the cylinder for movement up or down therein upon rotation of the disk, and a coil spring compressed between the abutment plate and the pressure disk, whereby upon rotation of the pressure disk the distance between the axle housing and the frame may be varied.

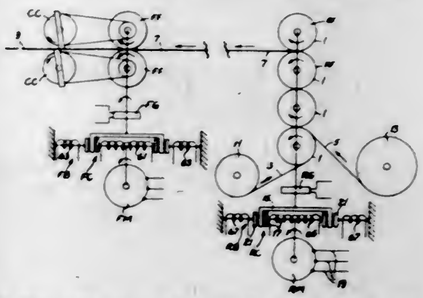
2,658,750
AWNING TYPE WINDOW
Arthur H. Soule, San Marino, Calif., assignor to Continental Specialties Company, Ltd., Los Angeles, Calif., a corporation of California
Application October 6, 1951, Serial No. 250,136
3 Claims. (Cl. 268—21)



1. A window construction, comprising a window frame, at least two banks of sashes in the window frame, each bank comprising a plurality of vertically adjacent sashes mounted in the frame for swinging movement about horizontal axes from open to closed positions and vice versa, the sashes of each bank being interconnected for movement in unison, spring means urging the sashes to assume open positions, and means for closing all of the sashes in unison against the resistance of the spring means, the last named means including a common cable drive shaft carrying a cable for each bank of sashes, the cable for each bank being connected at one end to the lower end of the lower sash and at its opposite end to the common cable drive shaft, and means for rotating said cable drive shaft for optionally opening or closing the sashes depending upon the direction of rotation of the common drive shaft.

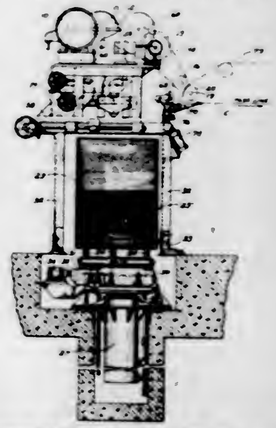
2,658,751
TENSION FEED CONTROL
Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware
Application September 20, 1950, Serial No. 185,893
26 Claims. (Cl. 271—2.3)

1. A tensioning feed for elongate material comprising rear feed means which would ordinarily resist movement of the material with a drag force greater than the desired tension, an electrically controlled variable-speed drive for rotating the rear feed means in the direction of feed to reduce said tension, a control circuit having speed-detecting means directly responsive to the speed of the rear feed means regulating the speed of the electrically controlled drive for the rear feed means, forward feed means and a second electrically controlled variable-speed drive therefor adapted to feed material at a rate greater than the regulated rate of speed of said rear feed



means will permit, said second drive being connected to a second control circuit having means directly responsive to the torque transmitted to the forward feed means regulating the torque supplied to the forward feed means by said second drive.

2,658,752
SHEET HANDLING APPARATUS
Elwin A. Matteson, Youngstown, Ohio, assignor to The Aetna-Standard Engineering Company, Youngstown, Ohio, a corporation of Ohio
Original application March 10, 1947, Serial No. 733,475. Divided and this application March 22, 1951, Serial No. 217,017
9 Claims. (Cl. 271—62)



1. In apparatus for handling metal sheets or the like, the combination of an elevator having a support for a pack of sheets thereon, means for conveying a pack of sheets onto said support when said elevator is in lowered position, a guide member extending upwardly adjacent to said support and parallel to the direction of movement of said pack onto said support, motor means carried by said elevator for continuously urging said pack in a direction substantially at right angles to the path of movement of said pack onto said support whereby the edges of at least some of the sheets in said pack are retained in contact with said guide member during upward movement of said pack on said elevator, and means for removing sheets one at a time from the top of said pack.

2,658,753
AIRPLANE TOY
John H. Dawson, Rockville, Md., assignor of one-half to Helen Crosby McCabe, Rockville, Md.
Application November 20, 1950, Serial No. 196,610
1 Claim. (Cl. 272—1)



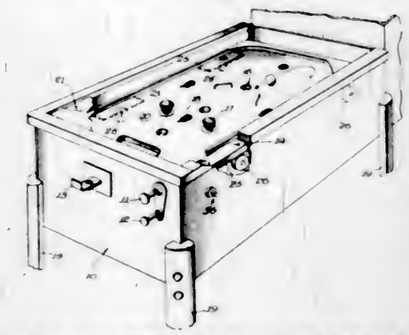
Toy airplane comprising a body simulating an airplane, including a seat, a support upon which said body is mounted, said support comprising spaced longitudinal members and spaced transverse members, mutually intersecting at points intermediate their ends forming a rectangular frame with exterior angles at the corners, the under faces of said frame being flat and lying in a common plane forming a horizontal supporting base, the under faces of the outer portions of said members that form the exterior angles being flat and inclined upwardly from the plane of said frame, any pair of adjacent outer portions forming a flat and stable supporting base.

2,658,754
FOLDABLE EXERCISING AND RESTING TABLE
William F. Courtney, New York, N. Y.
Application November 7, 1950, Serial No. 194,525
2 Claims. (Cl. 272—58)



1. A foldable exercising and resting table comprising a substantially flat, upper, table top section, a substantially flat lower table top section, hinge means restrictively interconnecting said sections directly to each other in abutting, endwise, open relationship, in which they are in a common plane, to adapt them for folding angularly relatively to each other toward only one side of said plane to closed relationship in which bottom sides of said sections are in face to face relationship, a relatively long leg pivotally connected to the bottom of the upper table top section toward the latter's upper end, a relatively short leg having a substantially flat upper end and being pivotally connected to the bottom of one of the table top sections independently of said hinge means in position thereon to pivot to an upright, table-supporting position with the short leg's flat upper end underlying and directly in supporting contact with adjacent bottom marginal portions of both said table top sections extending along the line of abutment of the latter; the lower ends of said legs and the lower end of the lower table top section being substantially in a common plane when the table is open and the legs in upright, table-supporting positions and the legs, when in such table-supporting positions, being perpendicular to said common plane, whereby to provide vertical support for the table with the latter's top surface in a plane which is inclined relatively to a substantially flat floor-like surface; and a foldable toggle linkage connected at its opposite ends to points on said short leg and on said one of the table top sections, which points are remote from the pivotal connection of said short leg to said one table top section, whereby to hold said short leg positively in table-supporting position.

2,658,755
SHIFTABLE BALL ROLLING BOARD AND CONTROL THEREFOR
George R. Benak, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.
Application October 16, 1947, Serial No. 780,288
7 Claims. (Cl. 273—121)



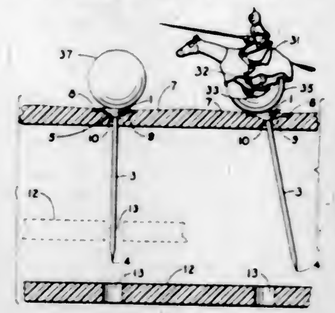
1. In an amusement game of the type including a support with a relatively movable ball-rolling board with ball objectives thereon, improvements comprising, to wit: electromagnetic means operable to move said board to affect or effect motion of a ball thereon for the purpose of influencing the movement of such ball relative to a said objective or effecting a modified travel of a ball thereon; a circuit for energizing said electromagnetic means; and an operating switch in said circuit and including an operating part therefor cooperably associated with a said ball objective to be moved by a ball scoring on such objective to actuate said switch and cause a movement of said board by said electromagnetic means for the purpose set forth.

2,658,756
MECHANICALLY OPERATED CUE
Frank E. Elersich, North Hollywood, Calif.
Application April 14, 1950, Serial No. 156,021
3 Claims. (Cl. 273—69)



1. A cue comprising a handle having a longitudinal bore therein, an elongated striking member slidably received in the bore and having forward and rear end portions and a smooth surfaced cylindrical central portion, a pivotal latch carried by the handle and engaging the member to retain the member in a retracted position, said handle having an upper wall with a transverse opening intersecting said bore, said latch being mounted in said opening for pivotal movement about an axis transverse of said member, a transverse stop pin extending through the rear end portion of said member and having end portions projecting outwardly from diametrically opposite sides of said handle, said pin being of a length greater than the diameter of the bore to engage the handle and limit forward movement of the striking member relative to the handle, and an endless elastic band about the latch and the rear end portion of said member and resting against said pin, said band yieldingly urging said member forwardly of the handle and also urging said latch against the central portion of said member to hold the member retracted.

2,658,757
GAME PIECE MOVING MEANS
John Calvin Elder, Penn Township, Allegheny County, Pa.
Application November 12, 1949, Serial No. 126,753
3 Claims. (Cl. 273—86)

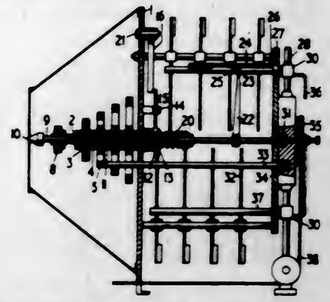


SECTION A-A

1. In a game comprising a playing floor having a plurality of recesses therein for receiving playing pieces, the combination comprising a plunger loosely seated in each of said recesses and having a stem which hangs vertically downward when the recess is unoccupied by a playing piece, and which stem is displaced laterally at its lower end when the associated recess is occupied by a playing piece, and a plunger actuator which actuates simultaneously only those plungers associated with a recess occupied by a playing piece, comprising a board disposed below said playing floor and constrained to move vertically while in a substantially horizontal plane, said board having openings therein, one for each of said plunger stems, through which said plunger stems may project when the board is raised, provided the stems are vertical, the stems which are not vertical engaging the board whereby the associated plungers and playing pieces are actuated, and means for raising said board.

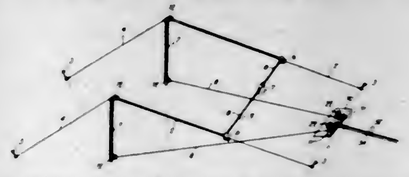
2,658,758
AUTOMATIC TARGET
Solvej Johannsen and Hans Christian Johannsen, Battenberg an der Eder, Germany
Application February 8, 1951, Serial No. 209,949
1 Claim. (Cl. 273—102.1)

In an automatically-indicating target of the kind having a hollow shaft, a series of mutually-spaced part-spherical supports on said shaft, a plurality of co-axial rings arranged one behind another and one on each of said part-spherical supports, and resiliently-loaded rods each having an end pushing against the rear surface of one of said rings and acting to swing a pivoted indicator into view when a bullet strikes the ring, the provision in at least one of said co-axial rings of a central aperture having a seating zone complementary to and accommodating one of said part-spherical supports and a rear escape zone which widens conically rearwards and permits the rearward escape of lead particles from said seating zone, the widest part of said seating zone being at its front so that said ring can move



bodily rearwards from said part-spherical support and thereby further facilitate the escape of lead particles from said seating zone.

2,658,759
MOVING TARGET APPARATUS
Lucien Jean Théodore Flory, Rocheville, France
Application May 15, 1951, Serial No. 226,258
Claims priority, application France May 22, 1950
5 Claims. (Cl. 273—105.2)

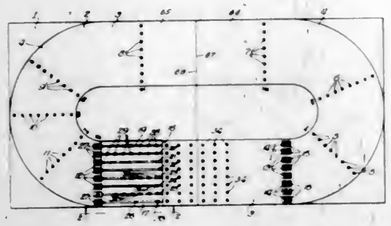


1. A target practice device reproducing the take off and the flight of a living bird, comprising a pair of spaced posts, two inclined parallel guiding cables taut between the top of said posts and the ground, a pair of jockey pulleys slidably mounted on said cables, a transverse carrier cable connected at each end to said jockey pulleys, a target slidably mounted on said transverse carrier cable, a pair of traction transmitting cables, winding means for each traction transmitting cable, power means combined with each winding means, each traction-transmitting cable being secured at one end to said target and being guided to the top of said posts and wound at the other end on said winding means, and means for selectively controlling said power means so as separately to control said winding means and to drive said target along a sinuous path according to the differential action resulting from the operation of said winding means, the hunter standing at such a position that the target flies away from him as said power means are operated.

2,658,760
HORSE RACING GAME APPARATUS
Andrew J. Brost, Chicago, Ill.
Application March 14, 1950, Serial No. 149,486
3 Claims. (Cl. 273—134)

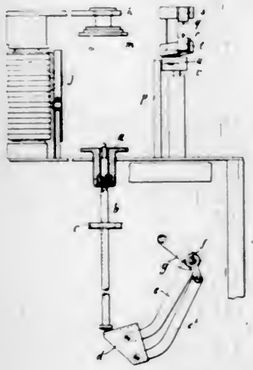
1. In a game of the class described, in combination, a game board having a plurality of tracks thereon, each track having a starting position and being divided into an equal number of predetermined and permanent advancing stations spaced lengthwise of the track, said game board having a recessed cut-out portion extending transversely across all the tracks and posi-

tioned intermediate the last of the predetermined and permanent advancing stations and said starting positions, and an insertable element for insertion into said recess, said insertable element defining handicapping means and



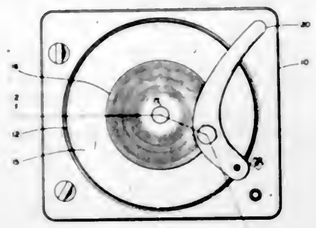
having track portions for register with the tracks on said board, the track portions of said insertable element being divided into different numbers of advancing stations to vary the number of stations along the tracks.

2,658,761
SOUND REPRODUCING MACHINE
Reginald Morris, Manchester, England
Application April 19, 1948, Serial No. 21,973
Claims priority, application Great Britain April 29, 1947
1 Claim. (Cl. 274—10)



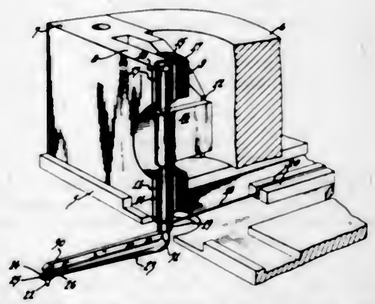
A sound reproducing machine comprising, in combination, a horizontal platform to carry a record whilst it is being played, a vertical spindle carrying the platform adapted to be revolved in both forward and reverse directions, a screw and nut connection between the platform and spindle so that according to the direction of rotation of the spindle the platform is raised or lowered before it is positively revolved by the spindle, a ring like support for a record mounted to turn about a vertical axis and to bring its record either above and in axial alignment with said platform or laterally clear thereof, a weight suspended above and in axial alignment with the platform, the latter when raised engaging the centre untracked part of the underside of the record and lifting it clear of its ring support, the record then engaging the weight and lifting it clear of its support so that the weight clamps the record on the platform and revolves with the platform and record, and pick-up means adapted to engage the upper and lower sides of the record.

2,658,762
MAGNETIC RECORD TRANSDUCING SYSTEM AND GUIDE STRUCTURE
Semi Joseph Begun, Cleveland Heights, Ohio, assignor, by mesne assignments, to Clevite Corporation, Cleveland, Ohio, a corporation of Ohio
Application December 23, 1948, Serial No. 66,960
6 Claims. (Cl. 274—13)



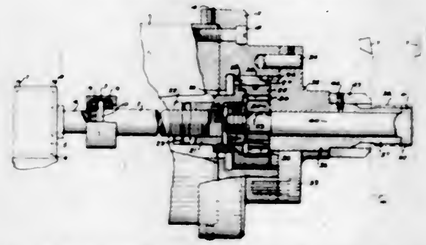
1. In combination, a magnetic record transducing system including an extended disk magnetic record structure, a guide arm with a guide stylus and a transducer head; and a plate-like guide member adapted to rest on and cover the central portion only of said disk record structure, said plate-like member including grooves for cooperating with said guide stylus to guide said guide arm and said transducer head across the uncovered peripheral portion of said disk record structure as said disk record structure rotates, said grooves including an unmodulated portion for guiding said transducer head across the initial portion of said disk record structure and a modulated warning portion for guiding said transducer head across the end portion of said disk record structure and for vibrating said guide stylus and said guide arm to warn the operator.

2,658,763
PHONOGRAPH PICKUP DEVICE AND THE LIKE
Henry E. Roys, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 31, 1948, Serial No. 41,773
7 Claims. (Cl. 274—35)



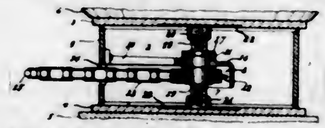
6. In a high fidelity phonograph record reproducing system, the combination of a stylus element of relatively small size and mass for engaging a record groove, a light-weight elongated suspension arm having one end attached to said stylus element to hold said element in contact with a record groove, said stylus element depending from one side of said suspension arm and having an integral axial extension on the opposite side of said suspension arm, and a body of damping material attached at one end to said extension and at the opposite end thereof to said suspension arm at a point remote from said stylus, said body being freely movable in response to vibration of the stylus and arm within a relatively wide audio frequency range and providing effective damping of the stylus element at the resonant frequency thereof about the axis of said suspension arm as a center of rotation.

2,658,764
CHUCK FOR HOLDING SPLINED WORKPIECES
John J. Parker and London T. Morawski, Detroit, Mich.
Application November 14, 1951, Serial No. 256,292
4 Claims. (Cl. 279—1)



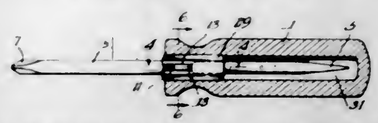
1. A chuck for holding a work piece having a splined formation so that machine operations may be performed thereon and having an outer member having means for attachment to a rotary element such as the spindle head of a machine tool comprising, an inner member, means keying the inner member to the outer member so that it may shift axially, means for shifting the inner member axially, the inner member having helical teeth thereon; a work holding sub-assembly having a body arranged to be detachably connected to the outer member, a toothed work holding element on the body, a shaft member journalled in the body, a toothed work holding element on the shaft member located in proximity to the end of the work holding element on the body, and helical teeth on the shaft member for engagement with the helical teeth on said inner member, the helical teeth on the shaft member being readily engageable with and disengageable from the helical teeth on the inner member whereby the sub-assembly may be readily detached and a similar sub-assembly for other work pieces mounted on the outer member.

2,658,765
WORK OBJECT AND SUPPORT SECURING DEVICE
Julius Ferda and Siegfried Deutsch, Cincinnati, Ohio
Application August 11, 1950, Serial No. 178,966
6 Claims. (Cl. 279—3)



4. As an article of manufacture, a device for holding a work object to a main support comprising a hollow frame having top and bottom sides, a flexible disc mounted on each of the top and bottom sides of the frame, a member having means on its opposite ends for being operatively connected to a portion of each of the discs for flexing that portion of each disc relative to another portion thereof, and means for operating the member.

2,658,766
SCREW DRIVER CONSTRUCTION
George L. Rock, Jonesville, Mich., assignor to Vaco Products Company, Chicago, Ill., a corporation of Illinois
Application April 13, 1949, Serial No. 87,319
4 Claims. (Cl. 279—96)



1. A detachable bit tool comprising a handle having an axial opening at one end, a tool bit having a shank, a flange on said shank, a flattened portion on said shank substantially coterminous with said flange, means in the opening of said handle cooperable with said flange to couple said handle and said bit, elongated latching means extending outwardly from and substantially normal to said flattened portion of said shank, and a leaf spring bridging said flattened portion and normally urging said elongated latching means outwardly from said flattened portion.

2,658,767
SKI BINDING
Howard Jansen, Chicago, Ill.
Application June 10, 1947, Serial No. 753,709
2 Claims. (Cl. 280—11.35)

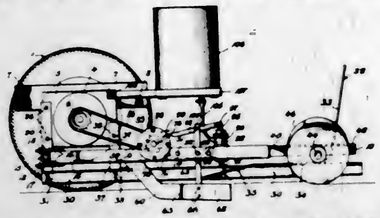


1. In a ski binding for securing a boot to a ski, a toe stop plate having a flat base portion to extend under the shoe sole and be secured to the top surface of the ski, a transverse upstanding lip on the forward edge of said base portion to hold the toe of the boot for skiing and to release the boot in case of an abnormal upward or lateral pull, a flexible tongue slidable through said stop plate to engage the heel of the boot, guide means for said tongue in said stop plate allowing said tongue to slide longitudinally and swing laterally, a slot in the forward end of said tongue, and guide means in said slot adapted to be secured to the ski in adjusted position in front of said stop plate to adjust the lateral position of the heel engaging portion of the tongue prior to use of the binding.

2,658,768
FRAME ATTACHMENT FOR SUPPORTING WORKERS IN PLANTING
William J. Melvin, Jr., Tarheel, N. C.
Original application September 12, 1946, Serial No. 696,481, now Patent No. 2,506,430, dated May 2, 1950. Divided and this application April 6, 1950, Serial No. 154,257
2 Claims. (Cl. 280—32.5)

1. Apparatus provided as an attachment for a vehicle comprising a longitudinal side rail at each side of the apparatus, a continuous cross bar connected between the forward portions of said side rails and maintaining the same in spaced relation, spaced vertical bars connected at their lower ends to the forward portion of each of

said side rails at spaced points, the upper ends of said spaced vertical bars being adapted to be attached directly to the vehicle at spaced points to fixedly support said forward portions of said side rails as cantilevers with the rearward portions thereof extending free and spaced above the ground for carrying a worker, a beam comprising a pair of spaced bars extending longitudinally of



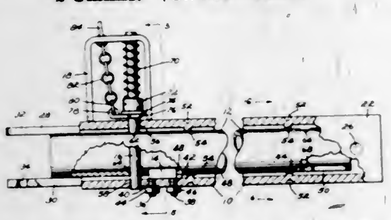
the apparatus between said side rails and pivotally connected at its forward end portion to said cross bar, wheels secured to the rearward ends of said beam bars for supporting said beam above the ground in cooperation with said cross bar, said beam being pivotally connected at its forward end portion so that it may move upwardly or downwardly independently of said fixedly supported side rails.

2,658,769

TELESCOPING TRAILER HITCH

Harold R. Forney, Surprise, Nebr.

Application January 5, 1951, Serial No. 204,581
2 Claims. (Cl. 280—33.14)



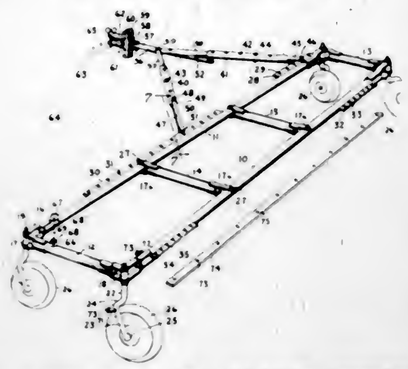
1. A trailer hitch comprising an outer pipe having a transversely disposed coupling bolt receiving opening extended therethrough and spaced inwardly from one end, an inner pipe extended into the end of the outer pipe opposite to the end in which said coupling bolt receiving opening is positioned and having horizontally disposed bars with vertically positioned pin receiving openings therein on the extended end thereof and said openings being spaced inwardly from the ends of the bars, a yoke mounted on the outer pipe, extended upwardly therefrom, and positioned adjacent to the end thereof into which the inner pipe extends, said outer pipe having aligned coupling pin receiving openings in the wall thereof and said inner pipe having spaced aligned openings positioned, selectively, to register with said coupling pin receiving openings of the outer pipe, a coupling pin slidably mounted in said coupling pin receiving openings of the outer pipe and extended through said yoke, resilient means for urging said coupling pin through the coupling pin receiving openings of the outer pipe and into the spaced openings of the inner pipe, and means preventing rotation of the inner pipe in the outer pipe whereby said openings remain in registering relation, and said outer pipe having spaced radially disposed projections on the inner surface for retaining the inner pipe substantially centered in the outer pipe.

2,658,770

FARM IMPLEMENT HITCH

John C. Koenig, Van Nuys, Calif.

Application April 14, 1950, Serial No. 155,861
8 Claims. (Cl. 280—33.44)



1. A tractor to implement hitch comprising a pair of longitudinal rails, each extending continuously and rigidly throughout the transverse length of the hitch and a plurality of laterally spaced cross rails each pivotally connected at respective ends to the respective longitudinal rails to form a frame of parallelogram shape having four corners, a plurality of caster wheels each having a castering connection to said frame at a respective corner, means for connecting one or more implements to the rear longitudinal rail, and a draw bar unit extending forwardly from said forward longitudinal rail for pivotally connecting the same to a tractor at a point forwardly of said forward rail, said draw bar unit including a trunk draw bar and means connecting the same to said forward rail in a manner to maintain a fixed angular relation between said draw bar and forward rail during normal straight ahead draft, said rear rail and cross rails being free of any connection with each other or with said forward rail or drawbar means, other than the pivotal connections between the ends of the respective cross rails and the forward and rear rails, whereby said rear rail may shift transversely with reference to said forward rail and to the line of draft, in response to lateral components of load developed during turns, said connecting means comprising a pair of branch drawbars both connected to said trunk drawbar at their forward ends, said branch drawbars diverging rearwardly so as to define with said trunk drawbar a Y formation and being attached to said forward rail at their rear ends; and brace means connecting one of said branch drawbars to said trunk drawbar in fixed obtuse angular relation thereto; the other branch drawbar comprising two sections pivoted together in end-to-end relation and adapted to jackknife during a turn toward said other branch drawbar.

2,658,771

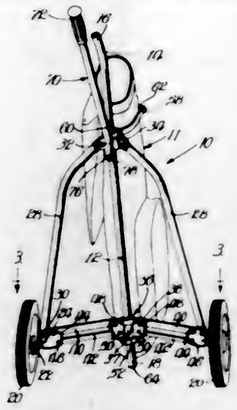
FOLDABLE GOLF BAG CARRIER

Carl Maynard Rutledge, Ringwood, and Fritz Alter, Pistauqua Heights, Ill., assignors to American Steel Box Corporation, Chicago, Ill., a corporation of Illinois

Application January 19, 1949, Serial No. 71,654
11 Claims. (Cl. 280—42)

1. A card adapted to transport a golf bag or the like and comprising a generally vertically extending body member on which the golf bag is

adapted to be supported, said body member at its upper end being turned forwardly to provide a hand grip, a handle pivotally connected to the body member beneath said hand grip and adapted to extend forwardly beyond said hand grip, a pair of ground engaging wheels one on each side of the body member, an axle for each wheel, and



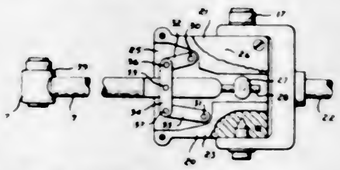
movable means pivotally interconnected between each axle and the body member, said means being adapted to permit the wheels to be moved from normal position to collapsed position adjacent the body member, the wheels in both of said positions being in engagement with the ground and being adapted to be wheeled with the golf bag in upright position.

2,658,772

JOINT FOR STEERING PARTS ON AUTOMOBILES HAVING INDEPENDENT FRONT WHEEL SUSPENSION

Herbert T. Cottrell, Vancouver, British Columbia, Canada

Application August 25, 1951, Serial No. 243,605
4 Claims. (Cl. 280—95)



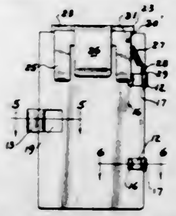
3. A pair of steering rods for a vehicle having independent front wheel suspension, said steering rods being adapted for connection between a manually operated arm of the vehicle steering mechanism and the steering arms of the front spindle bearings, each of said rods having a part connecting joint at each end, one of said joints comprising a vertical plate having a passageway in which the inner end of one of said steering rods may have oscillating and endwise movement, a pair of links having inner and outer ends pivotally connected at their inner ends to the plate above and below the passageway, a toggle rockingly mounted upon the rod, said toggle being pivotally connected at its outer ends to the outer ends of the links, said links being of different length, the link above the passageway being shorter than the link below said passageway.

2,658,773

GOLF SCORE CARDHOLDER

Joseph Tarris, Lincoln Park, Mich.

Application October 20, 1951, Serial No. 252,370
3 Claims. (Cl. 281—44)



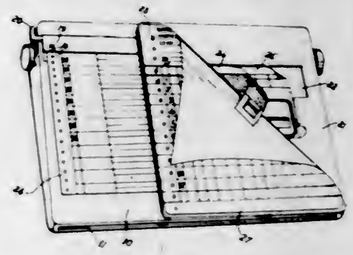
1. A score card holder adapted for use on a golf bag comprising a flat rectangular plate, a pair of resilient vertically spaced horizontally arranged clips upon said plate adjacent one upright edge thereof, a hinged mounting clip spaced from the rear of said plate, said latter clip including a pair of elongated elements horizontally spaced at different distances rearwardly of and substantially parallel to said plate adapted to receive a portion of a golf bag therebetween, a U-shaped pencil supporting clip upon said plate adjacent its other upright edge and aligned therewith, and a coiled spring inter-connecting and joined at its ends to portions of said plate and hinged clip normally maintaining a substantially parallel relation between said plate and clip, and permitting upward tilting of said plate to facilitate marking of a card secured thereon.

2,658,774

TRIPLE ENTRY POSTING BOARD

Fred J. Kraemer, Jr., Tarrytown, N. Y., assignor to Dennison & Sons, Long Island City, N. Y., a corporation of New York

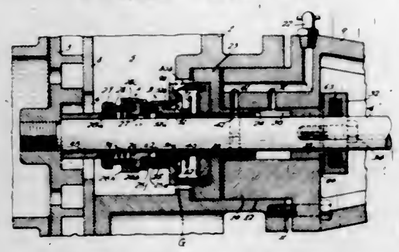
Application February 8, 1951, Serial No. 209,965
5 Claims. (Cl. 282—29)



1. A triple entry posting board having a stationary writing base comprising, a relatively flat hollow stationary baseboard having a slot in the upper surface thereof adapted to receive a second duplicate form when moved from its normal writing position supported on said upper surface, a roller adjacent to said slot mounted within said board, pin means on said roller for gripping said form on said roller, said form having a series of marginal holes for engaging said pin means, means on said board coacting with said roller for holding the said form on said pins and roller, a plate on top of said board attached to an edge thereof, of a width less than that of the board and having a cut out or open portion adapted to receive and hold a first duplicate form

on top of said board in a single position in relation to said board, and means on said plate for holding a strip of carbon paper and for locking an original form in an aligned position on top of said plate and over the cut out or opening therein.

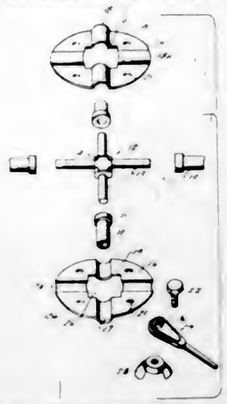
2,658,775
SEAL
Daniel Murphy, New Castle Pa.
Application September 24, 1949, Serial No. 117,613
2 Claims. (Cl. 286—11)



1. A seal for a rotary shaft extending through a stationary body, said seal comprising two shaft-encompassing devices, one rotatable with the shaft and the other secured against rotation, and arranged yieldingly to abut upon one another on sealing surfaces that extend annularly about the shaft, said device which is secured against rotation comprising a shaft-encompassing member having a rigid bushing portion engaging said shaft, a second shaft-encompassing member having a sleeve extension telescoped in a loose fit upon said bushing portion and keyed thereto to permit relative wobbling movement of said members with their telescoped portions axially of said shaft, a flexible shaft-encompassing sleeve extending between and secured at its opposite ends to said members, a collar portion clamping one end of said flexible sleeve to the sleeve extension of said second member, and a cylindrical extension on the first-mentioned member radially spaced from and concentric with the bushing portion thereof, said collar portion and said cylindrical extension forming between said members an enclosure that embraces and externally supports the wall of said flexible sleeve in substantially its entire extent between said shaft-encompassing members, whereby an enclosed and reinforced chamber is provided to receive high-pressure lubrication, said collar portion including an annular recess concentric with said shaft, the wall of said flexible sleeve in its extent between said members including a reversely curved portion that is snugly engaged and supported in said recess.

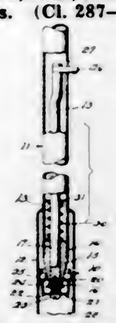
2,658,776
STRUCTURAL ROD JOINT
Burr C. Wilcox, Dayton, Ohio
Application March 14, 1950, Serial No. 149,624
8 Claims. (Cl. 287—54)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a structural framework a plurality of tubular members, collars at the termini of said members, a fixed cluster of rods over which said tubular members fit, said cluster having a central knuckle, a pair of clamping plates having aligning grooves enclosing the tubular members and a central rectangular opening receiving the central knuckle and the collars of said tubular members when the latter abut said knuckle whereby to hold the assembly in that fixed angular relation which is determined by the rod cluster and



prevent endwise displacement of said tubular members relative to said cluster of rods.

2,658,777
LOCKING DEVICE
Gerard Rauglas, Minneola, Fla.
Application May 5, 1949, Serial No. 91,543
2 Claims. (Cl. 287—58)

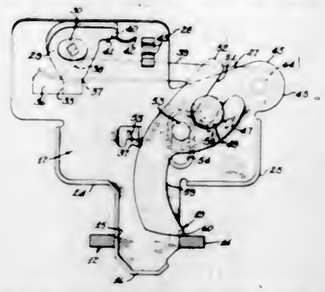


1. A device of the class described comprising a pair of telescoping sections adapted to be normally held in a non-retractable, extended position, the outer telescoping section having the surface thereof adjacent the inner telescoping section tapered, and the edge of the outer section at the diverging end of the tapered surface deformed, a plurality of balls tangentially engaging the adjacent surfaces of said sections, a spring-actuated seating member disposed between said adjacent surfaces and adapted to normally hold said balls in a wedged postion, said member provided with a flanged collar and having a portion thereof adapted to slidably engage said deformed edge, and means for effecting longitudinal movement of said seating member relative to said tapered surface and release said balls from said wedged position upon a relative twisting movement of said sections.

2,658,778
DECK LATCH
Edward D. Dall, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application August 8, 1950, Serial No. 178,277
12 Claims. (Cl. 292—63)

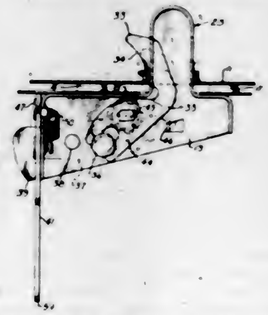
7. In a deck latch for association with a keeper and a cooperating deck door, a latching assembly

including a key lever, a pivoted dogging lever releasably engaged by said key lever and held thereby in a dogging position, a latching lever mounted intermediate its ends for slidable and pivotal movement in the general plane of door closing movement and having a strike surface at one of its ends and a latch surface extend-



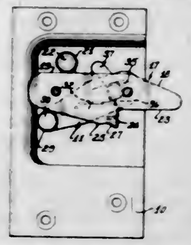
ing therefrom for latching engagement with the keeper, said dogging lever having slidable engagement with said latching lever and guiding movement of said latching lever into a projected latching position during door closing movement and maintaining said latching lever in engagement with the keeper when the door is closed.

2,658,779
LATCH MECHANISM
Edward D. Dall, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application February 10, 1950, Serial No. 143,556
7 Claims. (Cl. 292—66)



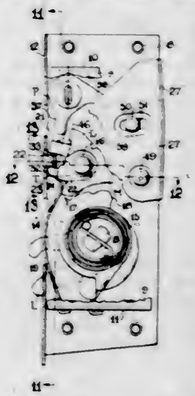
1. In a hood latch for association with a keeper, a latch assembly including a latch plate, a releasable holding lever pivoted thereon, a dogging lever pivoted on said latch plate and releasably engaged by said holding lever and held stationary in a dogging position thereby, a slot extending along said latch plate in the general direction of hood closing movement, a latch, a pin pivotally mounting said latch in said slot for movement therealong, a torsion spring operatively connected with said latch and urging said latch to pivot into engagement with the keeper and to move along said slot in a direction toward said keeper, a slidable controlling engaging connection between said dogging lever and latching lever controlling retractible movement of said latching lever during hood closing movement by engagement with the keeper and controlling movement of said latching lever into engagement with the keeper by said spring, when the hood is closed.

2,658,780
DOOR LATCH
Edward D. Dall, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application August 12, 1950, Serial No. 179,064
17 Claims. (Cl. 292—66)



1. In a door lock structure, a lock plate having a guide slot extending therealong in the general direction of door closing movement, a latch mounted in said slot for movement therealong and for pivotal movement with respect to said lock plate and having a latch bolt projecting laterally therefrom for engagement with a keeper, a spring operatively connected between said lock plate and said latch and urging said latch to move along said slot in a direction toward the keeper, and also urging said latch to pivot into clamping engagement with the keeper, a dogging lever pivotally mounted on said lock plate and having controlling slidable engagement with said latch and controlling movement thereof during the latching operation and holding said latch from movement in an unlatching direction, and a dog pivotally mounted on said latch plate to one side of the pivotal axis of said dogging lever and having an outside operating arm disposed on one side of said dogging lever and an inside operating arm disposed on the opposite side of said dogging lever, said dog being operable to engage and hold said dogging lever in a rigid dogging position during door closing movement and when the door is closed.

2,658,781
DOOR CONTROL MECHANISM
Edwin L. Allen, Cleveland Heights, Ohio, assignor, by mesne assignments, to Rudolph I. Schonitzer, Cleveland, Ohio
Application January 12, 1948, Serial No. 1,814
13 Claims. (Cl. 292—216)



1. Door control mechanism including a support having a plate portion adapted to face the

jamb of the door and provided at its inner edge with a flange portion, a latch member supported for movement between a door latched position and a door unlatched position, a detent adapted releasably to restrain said latch member in said door latched position, means for pivotally supporting said detent for movement between a latch restraining position and a latch released position, an actuating member pivotally mounted on said plate portion, means for pivotally supporting said actuating member for movement adjacent to and concentrically with said detent, said detent and actuating member having spaced generally radially extending contact faces, a transmitting member, and means for moving said transmitting member in a generally axial direction relative to said pivotally supported detent and actuating member between a non-transmitting or locked position out of the paths of movement of both of said contact faces and a transmitting or unlocked position between said spaced faces and in the paths of movement thereof.

2,658,782
LOCK MEANS FOR DOOR CONTROL MECHANISM

Edwin L. Allen, Cleveland Heights, Ohio, assignor, by mesne assignments, to Rudolph I. Schonitzer, Cleveland, Ohio

Application November 30, 1946, Serial No. 713,220
7 Claims. (Cl. 292—216)

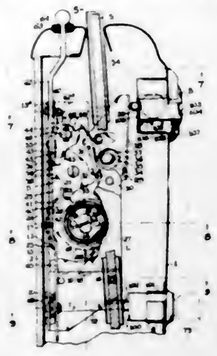


1. In a door control mechanism, a frame structure having a plate portion adapted to face the free edge wall of the door and provided at its inner edge with a flange portion, a latch member pivotally supported on said plate portion, a detent adapted releasably to hold said latch member in door latched position, means for pivotally supporting said detent on said plate portion for movement between a latch restraining position and a latch released position, an actuating member, said actuating member being pivotally supported on said means for pivotally supporting said detent for movement about the same center as said detent and having a part swingable toward said flange portion, means for swinging said actuating member, a shiftable member mounted on said flange portion, means for shifting said shiftable member, and coupling means operatively connecting said actuating member, detent, and shiftable member and adapted to be uncoupled from said detent upon shifting said shiftable member in one direction.

2,658,783
DOOR CONTROL MECHANISM

Edwin L. Allen, Cleveland Heights, Ohio, assignor, by mesne assignments, to Rudolph I. Schonitzer, Cleveland Ohio

Application May 7, 1947, Serial No. 746,521
5 Claims. (Cl. 292—216)



5. In a door control apparatus including a housing having a base plate and a side flange along one edge of said base plate, a latch member shaft pivotally supported on said base plate, a latch member secured to said shaft and disposed on one side of said base plate, said latch member being adapted to move from operative to operated position when the door with which it is associated is unlatched and opened and to move from operated to operative position when the door is closed and latched, the combination of a latch member control element carried by said shaft and disposed adjacent said base plate, a spiral spring member disposed adjacent said control element and substantially co-axially with said shaft, one end of said spring being anchored relative to said housing and the opposite end constantly exerting a force tending to rotate said control element, shaft, and latch member into unlatched position, a detent member having a latch member control element engaging portion, means carried by said base plate for supporting said detent member and control element engaging portion for rotary movement about a fixed center, and a detent control lever pivotally supported on said base plate at a point spaced from said detent support means, said control lever having a detent engaging portion disposed between said side flange and the opposite edge of said base plate and an actuating member engaging flange disposed adjacent said opposite edge of said base plate and extending radially farther from the pivotal support of said detent control lever than said detent engaging portion.

2,658,784
CLAMP STICK

Kenneth R. Runde, Lemay, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri

Application December 5, 1949, Serial No. 131,089
10 Claims. (Cl. 294—19)

6. A clamp stick comprising a ferrule having a bore extended therethrough in the face of which longitudinally extended grooves are formed, a pole to which said ferrule is fixed, a hook-supporting member disposed within said ferrule for longitudinal sliding movement therein, a hook pivotally supported by said hook-supporting member, spring means which tends to move said hook-supporting member in one direction within said ferrule, means for arresting movement of said hook-supporting member imparted thereto by said spring means so as to locate said hook-supporting member and the hook supported thereby in predetermined positions with respect to said ferrule, the last-mentioned means comprising an annular groove formed in said hook-supporting member, an abutment face formed on said hook-supporting member at said annular groove, and



an abutment element supported by said ferrule which is adapted to project into said annular groove and is adapted to engage said abutment face, and a groove formed longitudinally of said hook-supporting member that communicates with said annular groove and which is movable relative to said abutment element longitudinally of said ferrule to cause said hook-supporting member and the hook supported thereby to assume a different position with respect to said ferrule.

2,658,785
GOLF BALL RETRIEVER

Llewellyn Jones, Coos Bay, Oreg.

Application January 4, 1951, Serial No. 204,393
3 Claims. (Cl. 294—19)



1. A golf ball retriever comprising an elongated tubular handle having a transversely disposed slot in the wall thereof spaced from one end and an opening in the wall spaced inwardly from the slot, a spring wire latch having a mounting coil on one end extended around the handle so that one end of the coil will enter the opening in the handle and having a coil on the opposite end positioned to extend into the slot of the handle, said latch positioned on and spaced from the lower end of the handle and extending along the handle in angular relation thereto, an inner member slidably mounted in the handle and having recesses therein positioned to register with the slot of the handle whereby the coil of the latch extended through the said slot snaps into one of said recesses for retaining the said inner member in adjusted positions in the handle, and ball retaining wire loops extended from the said inner member.

2,658,786
TOOL FOR CHANGING FLUORESCENT LAMP TUBES

Carl H. Ziese, Oklahoma City, Okla.

Application September 9, 1952, Serial No. 308,611
4 Claims. (Cl. 294—20)



1. A lamp tube changing tool comprising an elongated tubular handle, a hollow housing on one end of said handle extending to respectively opposite sides of the handle, elongated sleeves fixedly secured on said housing in end to end relationship with each other and extending longitudinally of the outer end of said housing with their adjacent ends spaced apart, a shaft extending through said sleeve and rotatable therein, curved fingers projecting radially from said shaft one at each end thereof in a direction away from said housing, curved fingers projecting one from each of said sleeves at the outer ends of the sleeves and opposed one to each of the shaft carried fingers, a spring connected between said shaft and said sleeves resiliently urging said shaft carried fingers away from the sleeve carried fingers, an arm projecting from said shaft between the adjacent ends of said sleeves and transversely of the outer end of said housing, a first hand lever pivotally mounted on said handle at the end of the latter remote from said housing, a tension element connecting said arm to said first hand lever for movement of said shaft carried fingers toward the opposed sleeve carried fingers by said hand lever to grasp a lamp tube between the opposed fingers, a locking element carried by said handle and engageable with said first hand lever to hold the latter in lamp tube grasping position relative to said handle, bearing means on said housing, a pin extending through said bearing means transversely of said housing at a location spaced from said handle, tubular guides pivotally mounted intermediate their length on said pin one at each side of said housing and disposed substantially

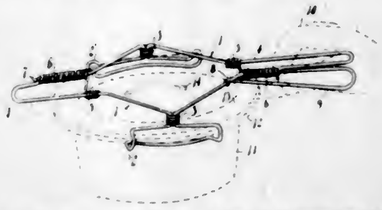
parallel to each other, a U-shaped rod having parallel legs slidably received one in each of said tubular guides and a bight portion spaced from the ends of said guides remote from said handle, one of said legs being longer than the other and having on its end remote from said bight portion a pusher formation engageable with an end of a fixture and effective when said rod is moved in a direction to bring the bight portion thereof nearer said tubular guides to exert a separating force between a lamp tube grasped in said fingers and the corresponding end of an associated lamp tube fixture, a bell crank lever disposed within said housing and pivotally mounted intermediate its length on said housing at a location spaced from said pivot pin, a link connecting one end of said bell crank lever to the bight portion of said U-shaped rod, a spring connected between said housing and said bell crank lever resiliently urging the bight portion of said rod away from the adjacent ends of said tubular guides, a second hand lever pivotally mounted on said handle at the end of the latter remote from said housing, and a tension element connecting the other end of said bell crank lever to said second hand lever for movement of said U-shaped rod by said second hand lever in a direction to force said pusher formation against the adjacent end of a lamp tube fixture.

2,658,787
TOOL FOR CHANGING FLUORESCENT LAMP TUBES
Carl H. Ziese, Oklahoma City, Okla.
Application September 9, 1952, Serial No. 308,612
4 Claims. (Cl. 294—21)



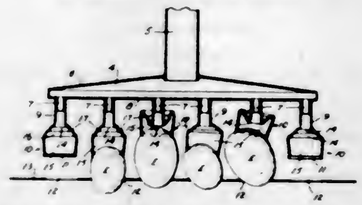
1. A tool for changing light tubes in ceiling mounted fixtures by an operator standing on a floor below a ceiling mounted fixture comprising an enlongated tubular handle including longitudinally extending portions telescopically associated with each other intermediate the length of the handle, a hollow housing extending to opposite sides of the handle at one end of the latter and having an open outer end, spaced apart bearing sleeves mounted on said housing and extending longitudinally of the outer end thereof, an outer shaft extending through and rotatable in said bearing sleeves and including tubular members disposed in end to end relationship and longitudinal alignment with each other with their adjacent ends spaced apart and a U-shaped strut rigidly connecting said tubular members together at their adjacent inner ends, longitudinally curved fingers projecting perpendicularly from said outer shaft one at each end thereof, an inner shaft extending through said outer shaft and rotatable therein, longitudinally curved fingers projecting perpendicularly from said inner shaft one at each end of the latter and operatively opposed to the corresponding fingers on said outer shaft for grasping a light tube between the fingers on said outer shaft and the fingers on said inner shaft, a spring connected between said inner and outer shafts resiliently urging the fingers on one of said shafts away from the corresponding fingers on the other of said shafts, cable sheaves mounted on said inner shaft between the adjacent ends of the tubular portions of said outer shaft and connected one to said inner shaft and one to said outer shaft, a sheave axle extending transversely through and journaled in said handle at the end of the latter remote from said housing, cable sheaves mounted on said axle and disposed within said tubular handle, a first cable connected at one end to one of said sheaves on said inner shaft and at its other end to one of the sheaves on said axle, a second cable connected at one end to the other sheave on said inner shaft and at its other end to the other sheave on said axle, said inner and outer shafts and said axle having their rotational axes substantially in a common plane and said cables extending around the sides of the corresponding sheaves at respectively opposite sides of said plane and having their portions between the associated sheaves disposed entirely at the corresponding opposite sides of said plane and extending around the sheaves on said inner shaft in a manner such as to move the fingers on either of said shafts toward the fingers on the other of said shafts when said cables are subjected to tension by elongation of said handle, a hand lever pivotally mounted intermediate its length on one of the tubular portions of said sandle at the end of said one portion intermediate the length of said handle and connected at one end to the other tubular portion of said handle for elongating said handle when subjected to manual pressure, and a handwheel on said axle outside of said handle for simultaneously rotating said axle and both of said shafts to impart rotational movements to a light tube grasped by said fingers.

2,658,788
POT LIFTER
Frank O. Crich, Toronto, Ontario, Canada
Application October 17, 1950, Serial No. 190,464
3 Claims. (Cl. 294—30)



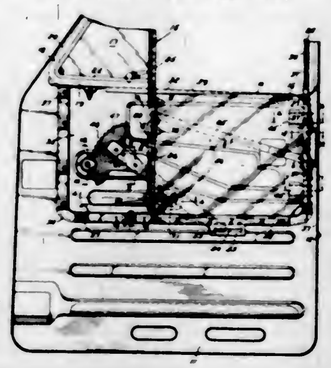
1. A lifter comprising a pair of elongated clamp members each having a clamping portion substantially midway between its ends, the members having pivotal connections to each other near their ends for rotation relative to each other, one member having a handle at one end and the other member having a handle at the other end, each handle being disposed substantially parallel to the axis of rotation of the members and comprising an elongated loop of wire having a smaller loop formed in one side of the said elongated loop, each member having a portion passing through and free to rotate in the said smaller loop in the handle of the other member to form said pivotal connections, and the members being rotatable relative to each other by twisting the handles in opposite senses.

2,658,789
SUCTION BOX
Andries W. Tellier, Hilversum, Netherlands
Application September 5, 1950, Serial No. 183,275
Claims priority, application Netherlands September 15, 1949
3 Claims. (Cl. 294—64)



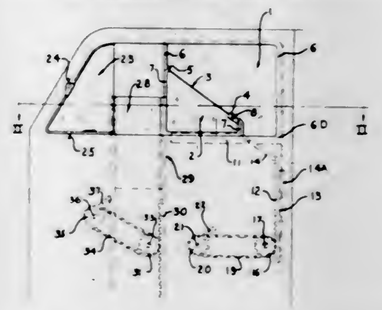
1. In apparatus for handling fragile bodies such as eggs, and having a suction cup carried by a tube and in communication through said tube with a suction chamber, the improvement in said cup comprising a relatively deep stiff skirt connected to said tube by a domed flexible top wall to accommodate variations in elevation and angularity between said skirt and said tube upon engagement by said skirt with a body, said domed top wall being corrugated to increase flexibility.

2,658,790
VEHICLE DOOR CONSTRUCTION
Carl C. Fish and Alfred H. Haberstrump, Detroit, Mich., assignors to Ferro Stamping Company, a corporation of Michigan
Application February 19, 1951, Serial No. 211,645
14 Claims. (Cl. 296—44)



1. A vehicle body door structure comprising a window panel movable in an up and down direction, inner and outer panels secured together in lateral spaced relation to provide a well for receiving the window panel, the portion of the inner panel forming one wall of the well having an opening therethrough, a plate closing the opening through the inner panel and removably secured to the inner panel, vertical guides having portions positioned within the well to respectively slidably engage opposite side edges of the window panel and secured to the plate for installation on the door structure as a unit with the plate, and a latch assembly at one edge of the door and having a casing secured to the plate for installation on the door structure as a unit with the plate and guides.

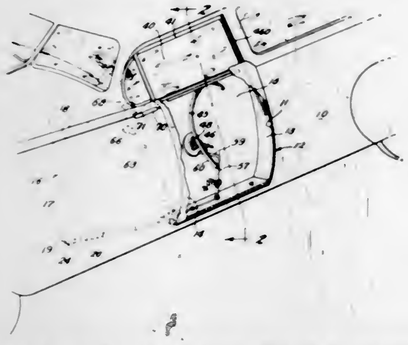
2,658,791
NO-DRAFT, ARM SIGNALING VEHICLE WINDOW
John F. Anderson, Oakland, Calif.
Application May 4, 1951, Serial No. 224,537
11 Claims. (Cl. 296—44)



4. A no-draft arm signaling window arrangement adapted to be mounted in the window of a motor vehicle for virtually eliminating drafts entering the body of the motor vehicle through the window, while freely permitting the arm of an individual positioned inside the window to be extended outwardly to a position exterior of the vehicle for signaling purposes, comprising: a forward window pane section mounted for selective manually initiated movement around a virtually vertical axis with respect to a vehicle frame in a manner whereby said forward window pane section may be selectively positioned in a coplanar arrangement across a forward portion of the vehicle window and may be selectively rotated around a vertical axis so as to be outwardly and rearwardly angularly inclined with respect to the window whereby air moving rapidly with respect to the moving motor vehicle will be angularly, outwardly and rearwardly deflected away from the plane of the vehicle window; an upper window pane section and a lower window pane section hingedly connected to the upper section in a manner to swing outwardly, upwardly, and rearwardly to permit extension of the arm of a person positioned inside the window pane section to a position outside the window pane section for signaling purposes, the hinged connection of the upper and lower sections being diagonally positioned at an angle slanting downwardly and rearwardly from the forward edge of the upper section with respect to the direction in which a vehicle carrying the window is intended to travel, whereby the hinged lower section swings outwardly, rearwardly and upwardly in opening, said upper and lower window pane sections being positioned behind the forward window pane section in a manner whereby wind deflected outwardly by the outwardly angularly inclined forward window pane section will be prevented from entering the body of the moving motor vehicle upon its return to the plane of the window; and means mounting both the upper window pane section and the lower angularly hinged window pane section for selective slidable movement upwardly out of a vehicle window frame into posi-

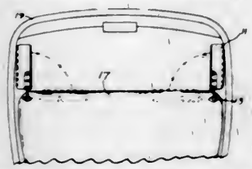
tion extending across a rear portion of the vehicle window and for selective slidable movement downwardly into the vehicle window frame out of closing relationship with respect to the rear portion of the vehicle window.

2,658,792
SLIDING DOOR CONSTRUCTION FOR VEHICLE BODIES
Clifford O. Scott, Fort Mitchell, Ky.
Application February 28, 1950, Serial No. 146,811
11 Claims. (Cl. 296—47)



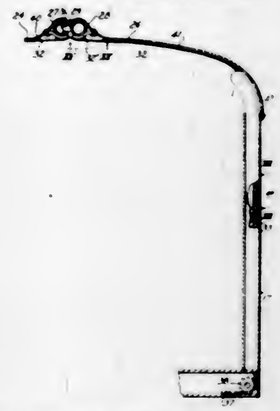
1. In a closed vehicle body having a vertically elongated opening for entrance and exit, the combination of a vertically foreshortened recess formed within the confines of the body and disposed therein in communication with the lower part of the opening, a door structure normally adapted to close the opening and including an upper section having a portion thereof normally extending above the level of the recess and a lower section disposed to one side of said recess and beneath the upper section, a preselector device between the upper and lower sections and adapted to maintain the upper section within the lower section or automatically raise the upper section to a selected position within the body opening, upon return of the lower section to normal position, actuating means carried by the lower section and operatively connected to the upper section for lowering the upper section into the lower section, control means mounted on the vehicle body for sliding the collapsed door into the recess and return, and means providing an operative connection between the control means and the actuating means for initially lowering the upper section into the lower section before moving the collapsed door into the recess.

2,658,793
AUTOMOBILE DRAFT CONTROL DEFLECTOR
Kenneth C. Sinclair, Detroit, Mich.
Application January 22, 1949, Serial No. 72,242
4 Claims. (Cl. 296—85)



1. An automobile draft control arrangement comprising, a closed automobile body having a front seat and a rear seat, an elongated air deflector suitable for deflecting air currents in said body, a mounting base secured on the back of the front seat adjacent one side of the body, pivotal means attaching said air deflector adjustably to said mounting base for movement to be set adjacent the side of the automobile or at various angular or inclined positions to deflect rearwardly flowing air currents to suit the comfort of passengers in the rear seat or to an unobstructive folded position adjacent the upper and back portion of the front seat, said air deflector having a substantially L-shape cross-section for fitting over and along the upper rear portion of the seat back when folded thereon, and said pivotally adjustable means being a universally adjustable ball joint to hold the air deflector in a wide range of different positions to suit the comfort of the passengers in the rear seat.

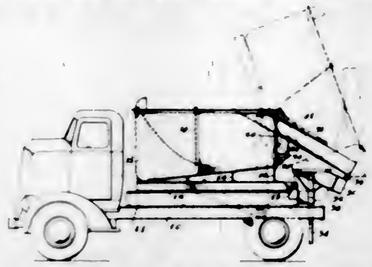
2,658,794
ROOF CONSTRUCTION FOR TRUCKS OR TRAILERS
William G. Butsch, Fort Thomas, Ky.
Application June 10, 1952, Serial No. 292,699
5 Claims. (Cl. 296—100)



1. A truck body of the closed type provided with a roof divided lengthwise at the ridge pole into two sections, each section of said roof comprising a plurality of elongated plate springs adapted to extend transversely of the body from one sidewall to the ridge pole position of the roof and being spaced lengthwise of the body, a ridge pole for each section, the ridge pole ends of the springs of each section being secured to their associated ridge pole, the wall ends of the springs of each section being arranged to slide vertically in the associated sidewall, means for moving the springs of each section vertically in either direction whereby the ridge pole thereof can be moved from a position at the ridge pole position of the roof to a point adjacent the top of the side wall, and a flexible cover for each of said sections secured to the ridge pole and to the springs thereof, whereby the cover moves with the springs to or from closed roof position.

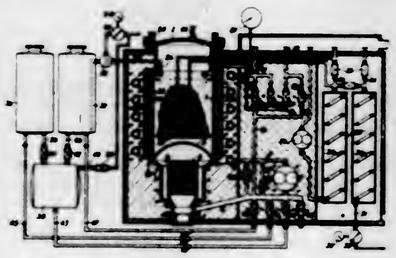
2,658,795
DUMP TRUCK BODY
James A. Nicholson, Toledo, Ohio
Application June 2, 1947, Serial No. 751,891
7 Claims. (Cl. 298—17)

1. A truck body for hauling mixed concrete or the like comprising a tiltable container, a divider forming front and rear compartments in said container with the compartments in communication with each other below said divider when the container is in hauling position, the side walls of said rear compartment being convergent from front to rear, means to tilt the front end of said container to a discharging position in which each compartment is disposed to discharge material from the top and bottom of a contained



mass, and in which said front compartment discharges into and through said rear compartment below said divider, a discharge gate at the lower side of the rear wall of the rear compartment through which the body contents discharge, and a pivot for said body disposed below said discharge gate about which said body is tilted from hauling to discharging position.

2,658,796
HOT-SPRAYING METHOD AND APPARATUS
Wilhelm Kopperschmidt, Hamburg, Germany
Application April 27, 1950, Serial No. 158,447
9 Claims. (Cl. 299—58)



1. In a melting and spraying apparatus for thermoplastic materials, a melting and preheating vessel; a screen-like bottom in said vessel; a grid for supporting said material in spaced relation above said bottom; a receptacle beneath said bottom; a pipe coil around said vessel; means for heating said grid, receptacle, and pipe coil; spray nozzles within said vessel; means effecting communication between said vessel, receptacle, pipe coil, and spray nozzles to form a closed system thereof; pressure inducing means in said system to effect circulation of the molten material; and means connecting said system with a point of use for said molten material.

2. An apparatus as set forth in claim 1, including a return conduit from said point of use for the return of unused material to said system.

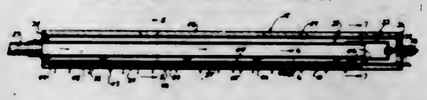
2,658,797
UNITARY CONTAINER FOR ATOMIZING
Jules B. Montenier, Chicago, Ill.
Application November 20, 1948, Serial No. 61,207
1 Claim. (Cl. 299—89)

A container and atomizer for liquids comprising a molded integral one piece member, made from a flexible plastic, and including a container body open at its bottom and closed at its top except for a spray outlet aperture provided therein and means within said container body providing a socket adjacent said closed top and extending downwardly a short distance therefrom, a downwardly extending liquid carrying tube received and frictionally held in said socket, means associated with said socket forming at least one air passageway communicating with the interior of the container body, a mixing



chamber for air and liquid formed adjacent said spray outlet aperture when said liquid carrying tube is received in said socket and communicating with said liquid carrying tube and air passageway whereby liquid issuing from said liquid carrying tube and air passing through said air passageway commingle prior to being ejected through said spray outlet aperture, said container body being fillable with liquid through its open bottom, and a closure member secured to the open bottom of the container body, after filling with liquid, for closing said open bottom.

2,658,798
ELECTRIC DRYING UNIT
Rudolph L. Meltzer, Henry E. Meltzer, and William D. Warner, Racine, Wis., assignors to Master Appliance Mfg. Co., Racine, Wis.
Application November 14, 1951, Serial No. 256,352
3 Claims. (Cl. 299—106)

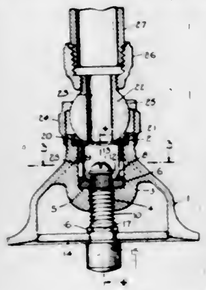


2. In a drying unit for use with printing and like machines, a hot air distributor adapted to extend transversely across a machine comprising a cylinder having a longitudinally extending row of outlet openings, said cylinder being imperforate with the exception of said row of outlet openings, caps closing the opposite ends of the cylinder, an imperforate air conducting pipe extending axially into the cylinder and spaced from the inner surface thereof having its opposite ends open, said pipe entering the cylinder through one end cap and terminating short of the opposite end cap for directing air against said opposite end cap, and means for forcing air into the outer end of said pipe.

2,658,799
SHOWER HEAD WITH VOLUME CONTROL
James Fraser, Wilmington, Del., assignor to Speakman Company, Wilmington, Del., a corporation of Delaware
Application September 6, 1950, Serial No. 183,364
10 Claims. (Cl. 299—130)

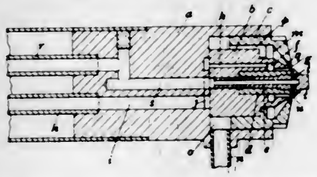
1. A shower head comprising a hollow shower head body having a discharge opening at one end and an inlet opening adjacent its other end, a disc normally received in said discharge opening and adjustable axially of said opening to vary the effective area of the discharge space between the peripheral edge of the disc and the

portion of said body surrounding the discharge opening, a supporting part within and connected to the shower head body and formed with a passage having an internally threaded peripheral wall, said discharge opening and passage having a common axis, volume control means comprising a stationary valve member and a valve member mounted in said body for angular adjustment about said axis relative to said stationary valve member, said valve members having portions cooperating to form an orifice varying in area as the relative angular positions of



said valve members are varied and through which water flows from said inlet to and through said discharge opening in accordance with changes in the relative angular positions of said valve members, and adjusting means extending through said passage and including a rotatable portion operatively connected to said valve member to angularly adjust the latter when said portion is rotated and having a second portion in threaded engagement with said peripheral wall and operatively connected to said disc to adjust said disc axially of said discharge opening when rotated.

2,658,800
LIQUID FUEL INJECTION NOZZLE
Eric Samuel Collinson, Higher Brunshaw, Burnley, England, assignor to Joseph Lucas Limited, Birmingham, England
Application February 12, 1951, Serial No. 210,518
Claims priority, application Great Britain February 20, 1950
1 Claim. (Cl. 299—143)



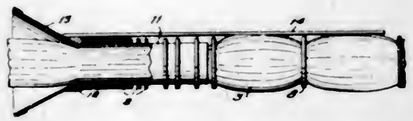
A liquid fuel injection nozzle provided with an annular conical fuel delivery orifice from which liquid fuel can emerge in the form of a hollow conical jet, an outer annular air discharge orifice located around the fuel delivery orifice and immediately adjacent to the outer side thereof, and an inner annular air discharge orifice located concentrically with the outer annular air discharge orifice and immediately adjacent to the inner side of the fuel delivery orifice, the outer annular air discharge orifice being situated parallel with the axis of the nozzle, and the inner annular air discharge orifice being situated at right angles to the axis of the nozzle, so that air streams issuing from the outer and inner annular discharge orifices can impinge on the outer and inner sides respectively of the hollow conical fuel jet emerging from the fuel delivery orifice.

2,658,801
PROCESS FOR MAKING PAINTBRUSHES
Charles R. Goldberger, Brooklyn, N. Y.
Application January 8, 1952, Serial No. 265,406
2 Claims. (Cl. 300—21)



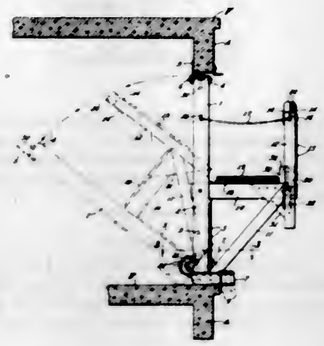
1. The process for making a paint brush comprising shaping a cluster of bristles to simulate the bristle part of a paint brush, embracingly engaging the thus shaped bristle part adjacent one end thereof, combing the thus shaped bristle part longitudinally backwardly and forwardly from the other end thereof while being embracingly engaged, embedding the portion of the thus shaped bristle part adjacent said one end thereof in a mass of molten moldable plastic material settable upon heating contained in a handle cavity, and subjecting said plastic material to an elevated temperature to effect bonding of said embedded bristle part end portion to said handle cavity.

2,658,802
METHOD OF MAKING POLISHING DISKS
Hermann Stahel, Zurich, Switzerland
Application July 17, 1947, Serial No. 761,543
In Switzerland November 2, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 2, 1965
2 Claims. (Cl. 300—21)



1. A method for preparing a polishing disc having a two-piece flanged hub consisting in taking a bundle of longitudinally extended threads, applying a ring-like member about the bundle of threads approximately medially of the ends thereof, inserting a tapered mandrel through the center of the bundle of threads on the ring member, removably arranging a flanged hub part on the enlarged end of the mandrel and allowing the same to remain thereon until the threads and ring member ride on the said hub part with the threads abutting the flange of the hub part, throwing the threads remaining on the mandrel radially outward beyond the flanged hub part, withdrawing the mandrel and applying the other flanged hub part to the first hub part in place of the mandrel to form the composite hub with the flanges thereof clamping and holding the radially extending threads in position.

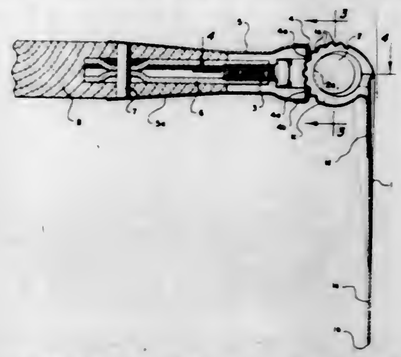
2,658,803
SCAFFOLD
Charles F. Long and Harvey E. Abels, Washington, D. C.
Application April 13, 1950, Serial No. 155,718
2 Claims. (Cl. 304—24)



1. Scaffold comprising spaced parallel standards, bearings for ground contacting wheels mounted at the lower ends of said standards, ground contacting wheels supported by said bearings in parallel relationship, said wheels being arranged to contact the ground only when the standards are inclined at an angle to the vertical, arms secured one to the bottom of each standard and projecting forwardly perpendicularly to said standard, each of said arms being provided with pin receiving holes arranged to secure a pin parallel with but spaced forwardly of the adjacent standard, a header of channel cross-section connecting the upper ends of the standards, said header being formed with slots adjacent the rear face of each standard, plates secured to the rear face of each standard and projecting through the slots in the header above and parallel with each standard, arms rigidly secured to each standard intermediate its ends and projecting forwardly thereof, a platform mounted on said arms, rail posts secured to the outer ends of said arms, rail cleats secured to the outer and inner faces of each rail post to form a seat for removable rail sections and locking bolts screwable through said header adjacent each of the standards adapted to exert upward pressure against overlying building structure to stabilize the scaffold against lateral tilting.

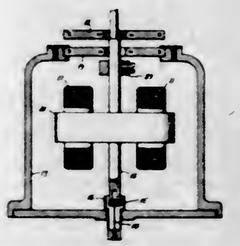
2,658,804
TOOL HANDLE CONNECTION
Michael Z. Andrews, Chula Vista, Calif.
Application March 20, 1950, Serial No. 150,764
3 Claims. (Cl. 306—40)

3. A blade-handle mounting means comprising a handle-receiving ferrule, a nut mounted internally of said ferrule, a yoke member having an aperture therein and tabs adjacent thereto, a bolt having a shank extending through said aperture and held by said tabs, said shank being screw-threaded and received by said nut, a hollow cylinder integral with a blade and having external serrations thereon remote from the blade, said yoke having bifurcated ends straddling said cylinder walls and said ends being secured together internally of said cylinder and intermediate the ends thereof, a blade locking member having a substantially rectangular opening being parallel to and engaging said serrations when said bolt shank and said nut are threadably engaged, and said blade locking member having a



downturned flange slidable over the end of said ferrule.

2,658,805
REPULSION TYPE MAGNETIC SUSPENSION
Lewis I. Mendelsohn, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application May 27, 1949, Serial No. 95,832
5 Claims. (Cl. 308—1)

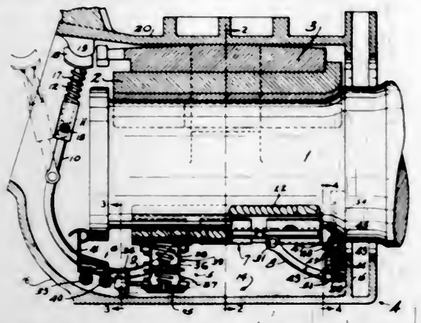


1. A magnetic suspension for a vertical shaft comprising in combination with a supporting structure a rotary vertical shaft mounted on said structure, a substantially planar washer-shaped permanent magnet secured concentrically on said shaft, a second substantially planar washer-shaped permanent magnet, means for supporting said second permanent magnet on said structure in a fixed position concentrically with said shaft, below, parallel and closely adjacent the first-mentioned magnet, both of said permanent magnets being uniformly magnetized radially and having magnetic poles of like polarity in vertical alignment such that a magnet force of repulsion exists between such magnets tending to support the weight of said shaft and the magnet secured thereon.

2,658,806
RAILWAY JOURNAL LUBRICATOR
James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware
Application June 10, 1950, Serial No. 167,469
27 Claims. (Cl. 308—84)

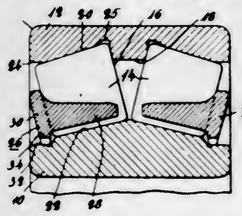
1. In combination with a railway axle journal and a box mounted thereon, a mechanism for supplying lubricant from the bottom of the box to the journal, a linkage supporting said mechanism from the bottom of the box, and a yielding

thrust member connected to said linkage and engaging a downwardly facing element on the box



to hold said linkage and mechanism in proper functioning relation to the journal.

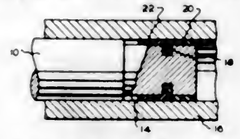
2,658,807
DOUBLE ROW ROLLER BEARING
August Gunnar Ferdinand Wallgren, Stockholm, Sweden
Application August 14, 1950, Serial No. 179,212
Claims priority, application Sweden August 15, 1949
5 Claims. (Cl. 308—214)



1. A double row roller bearing comprising an outer and an inner annular bearing member with interposed rollers having their diameters varying along their length, and their longitudinal axes inclined to the longitudinal axis of the bearing, said rollers being axially fixed in both directions by means of races and by means of guide surfaces on the bearing members, and the rollers being maintained distributed around the circumference by means of a roller retainer for each row of rollers, in which the roller retainer consists of separating members, having when viewed in the axial direction, a width increasing inwardly of the bearing and conforming to the shape of the intermediate space between the rollers on one side of their central axis and an annular retainer ring connected to the separating members only at the outer face of the bearing, the roller retainer being formed as an integral unit with the separating members introduced between the rollers on assembly of the bearing due to elastic deformation of the retainer ring.

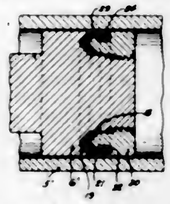
2,658,808
SEALING STRUCTURE
Rudolf Kaiser, Ettlingen, Baden, Germany, assignor to Aeroquip Corporation, Jackson, Mich., a corporation of Michigan
Application June 23, 1950, Serial No. 169,897
1 Claim. (Cl. 309—23)

Sealing structure for sealing a piston and cylinder assembly comprising a piston having an annular groove, an axially extending annular relief in said piston into which said annular groove radially opens, a pair of flexible sealing rings in the form of flat unformed annular discs having inner and outer peripheral edges, said inner edges being disposed in said groove, the remaining por-



tion of said discs being foldable axially of said piston in opposite directions upon insertion of the piston into the cylinder and disposed in said relief to provide a seal between said piston and cylinder.

2,658,809
HYDRAULIC FLUID SEAL
Edward H. Schultz, Milwaukee, Wis.
Application May 17, 1948, Serial No. 27,451
2 Claims. (Cl. 309—34)

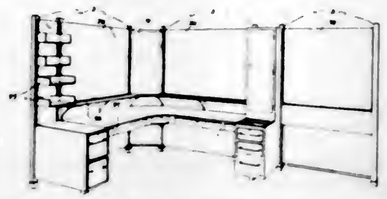


1. A fluid seal for use in hydraulic rams or the like having a piston, a cylinder in which said piston travels, and normally having fluid in said cylinder inwardly of said piston, comprising a portion of reduced diameter formed on the piston forming a shoulder, said shoulder being formed with an annular V-shaped grooved surface facing the fluid, a backing ring having a V-shaped cross-section to provide angled portions positioned in said groove, said backing ring being formed of relatively hard and substantially non-extrudable material, a peripheral portion of said backing ring being expandable into sealing engagement wtih the cylinder, a collar threaded on said portion of reduced diameter and having one end in engagement with said backing ring, and a second ring carried by said collar and engageable with peripheral portions of the backing ring, said second ring being in sealing engagement with the collar and the cylinder and having an annular portion exposed to said fluid.

2,658,810
WORK UNIT
Howard Ellis, Greenville, and Albert K. Wilson, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 9, 1948, Serial No. 19,214
13 Claims. (Cl. 312—238)

6. In an article of office furniture, a space-saving unit comprising a metal, L-shaped desk top having leg room beneath said top and longitudinal rear edges at right angles, formed from a plurality of component parts including longitudinal supports and lateral connecting members welded to the underside of said desk top, an underframe structure in supporting position for said desk top comprising cross-struts and back plates also welded to the underside of said

desk top, a plurality of rear uprights adjacent said rear edges, and in supporting position for



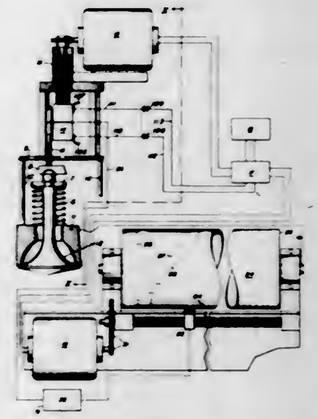
said back plates, and a plurality of panels supported by said uprights substantially in the same plane as the supported back plates.

2,658,811
SWINGING REFRIGERATOR SHELF
Floyd R. Eck, Des Plaines, Ill., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application November 6, 1950, Serial No. 194,227
1 Claim. (Cl. 312—326)



In a refrigerator having a storage compartment, a swinging shelf adapted to receive a plurality of small containers for left-overs, said shelf having a continuous bottom border wire, a plurality of straight horizontal bottom wires secured to the underside of said bottom border wire whereby said bottom border wire constitutes a raised guard abutment, a continuous top border wire overlying said bottom border wire, the space enclosed within said top border wire being entirely unobstructed to provide top access to said shelf, said top border wire being spaced above said bottom border wire a distance sufficient to provide for movement of left-over containers therebetween, hinge means adjacent a front corner of said shelf for mounting said shelf for outward swinging movement on a side of the storage compartment, vertical posts connecting said top and bottom border wires and located at the rear and hinged side of said shelf, and a single additional vertical post connecting said top and bottom border wires and located adjacent the side of said shelf remote from the hinged side thereof, the space between said top and bottom border wires at the front of said shelf being entirely unobstructed to provide access to containers on said shelf through the space between said top and bottom border wires at the front of said shelf when said shelf is swung inwardly of the refrigerator compartment.

2,658,812
VALVE LIFT RECORDER
Leonard C. Smith, Berea, Ohio
Application August 3, 1949, Serial No. 108,401
3 Claims. (Cl. 346—3)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A performance testing device for recording variations in the value of a cyclically variable significant characteristic of a cyclically operating machine, comprising a recording drum having a positive drive connection for operation by the machine so as to maintain a constant relation between the cycle of operation of the machine and the angular position of said drum, a spark scriber movable axially along one side of said drum, a spark sensitive record sheet mounted on said drum for receiving the record, a circuit for effectuating said spark scriber to produce a mark on said sheet, adjustable contact mechanism operative whenever said cyclically variable significant characteristic reaches one particular value to close said circuit and effectuate said spark scriber, means for adjusting said contact mechanism to respond to different instantaneous values of said characteristic, and means for operating said adjusting means and moving said spark scriber in direct proportion so as to provide a direct relation between the value of the significant characteristic being recorded and the axial position of said scriber, whereby a series of readings is obtained which defines a curve useful in evaluating the performance of the machine.

CHEMICAL

2,658,813

PROCESS OF SELECTIVELY CHLORIDIZING MANGANESE IN THE TREATMENT OF MATERIALS CONTAINING IRON AND MANGANESE

Irving P. Whitehouse, South Euclid, and Marion Ernest Graham, Parma, Ohio, assignors, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

No Drawing. Application October 5, 1951, Serial No. 250,032

7 Claims. (Cl. 23—87)

1. The process of selectively chloridizing manganese in the treatment of material containing iron and manganese and in which the amount of iron present is substantially greater than the amount of manganese present, comprising the steps of introducing said material into a reaction zone, maintaining said material in said zone at a temperature in the range of about 300° F. to about 900° F., passing HCl into said zone to contact said material therein, supplying to said zone an amount of hydrogen sufficient so that the gases leaving said zone contain at least a trace of hydrogen, carrying on the steps aforesaid until at least about 50% of the manganese present has been converted to $MnCl_2$, and discontinuing the process steps aforesaid when the ratio of manganese chloride to ferrous chloride produced is at least 1:1.

2,658,814

METHOD OF PRODUCING ACTIVE MAGNESIUM OXIDE

Teynham Woodward, Los Altos, Calif., assignor to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 24, 1948, Serial No. 61,919

8 Claims. (Cl. 23—201)

1. A process for producing magnesias of magnesium oxychloride cement grade from magnesium hydroxide precipitated from sea water bittern which comprises burning said magnesium hydroxide precipitate at a high temperature of from about 1200° to 1800° C. until sintering has commenced, thereafter hydrating the sintered magnesia obtained and finally light burning the resulting hydrated mass at a temperature between about 600° and 900° C. to provide active magnesia of magnesium oxychloride grade.

2,658,815

PREPARATION OF DIBORANE

Edith M. Boldebuck, John R. Elliott, and George F. Roedel, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application November 24, 1948, Serial No. 61,902

2 Claims. (Cl. 23—204)

1. The method of preparing diborane by the reaction of lithium hydride with boron fluoride to obtain yields of diborane in excess of 50% based on the Equation

$$6LiH + 2BF_3 \rightarrow 6LiF + B_2H_6$$

which comprises adding to a cold ether slurry of lithium hydride at least 0.15 mol boron fluoride for each three mols of lithium hydride while holding the temperature of the slurry below 10° C., allowing the temperature of the resultant mixture to increase until an exothermic reaction occurs, and after this reaction subsides adding sufficient boron fluoride to bring the total quantity of added boron fluoride to at least one mol per 3 mols lithium hydride.

2,658,816

PRESSURE METHOD OF PREPARING DIBORANE

Edith M. Boldebuck, John R. Elliott, and George F. Roedel, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application November 24, 1948, Serial No. 61,905

1 Claim. (Cl. 23—204)

The method of reacting boron fluoride etherate with an ether slurry of lithium hydride in the preparation of diborane which comprises slowly adding said etherate to said slurry in a pressure vessel, confining the reaction products under autogenous pressure during the addition of from about 45 to 75 percent of the etherate, releasing and collecting the diborane reaction product during the addition of the remaining etherate, and maintaining the temperature of the reaction mixture below the boiling point of ether during the reaction.

2,658,817

CORROSION INHIBITOR

Arthur E. Martin, Concord, Calif., and Joseph W. Eberman, Houston, Tex., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application April 10, 1950, Serial No. 155,118

7 Claims. (Cl. 23—204)

1. The method of preparing a corrosion inhibitor, said method comprising heating at a temperature between about 50° C. and about 100° C. an aqueous solution containing starch and chromic acid, in the proportion of from 2 to 5 parts of starch for each part of chromic acid, the latter calculated in terms of chromium trioxide.

3. The method of inhibiting the corrosion of metal surfaces by water which comprises adding to the water a corrosion inhibitor prepared by heating at a temperature between about 50° C. and about 100° C. an aqueous solution containing from two to five parts starch, together with one part of an acidic hexavalent chromium oxygen compound, calculated in terms of chromium trioxide, said inhibitor being present in the water in an amount sufficient to provide a chromium concentration of at leaset one part per million parts of water.

2,658,818

STABILIZED HYDROGEN PEROXIDE AND METHOD OF MAKING SAME

Edward S. Shanley, Grand Island, and Hans O. Kauffmann, Eggertsville, N. Y., assignors to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y.

No Drawing. Application October 5, 1945, Serial No. 620,626

5 Claims. (Cl. 23—207.5)

1. An aqueous solution of commercial hydrogen peroxide containing colloidally dispersed metallic tin.

2,658,819

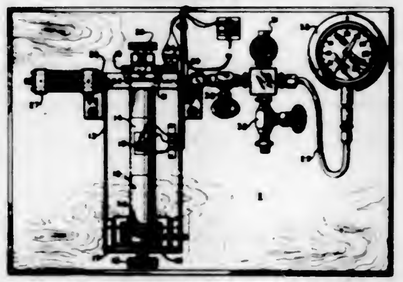
APPARATUS FOR MEASURING CHEMICAL ACTIVITY, PARTICULARLY OF CATALYSTS

John M. Formwalt, Newport, R. I.

Application August 23, 1949, Serial No. 111,959

7 Claims. (Cl. 23—253)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Apparatus for measuring the activity of a catalyst used to evolve gas from a chemical substance comprising, a cylindrical reaction chamber for containing said chemical substance having a thin wall and a length long in comparison to its diameter, a temperature compensated strain gauge mounted on said wall having two resistance wire elements at right angles to each other for measuring circumferential and longitudinal strains in said wall, means for introducing said catalyst into said chamber, a bridge circuit incorporating said two resistance wire elements as two of its arms, and means for indicating resistance unbalance in said bridge circuit after the introduction of said catalyst.

2,658,820

APPARATUS FOR CARRYING OUT SPOT TEST ANALYSES

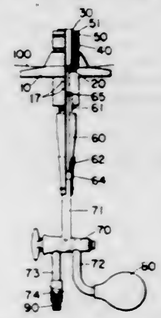
Rollin E. Stevens, Vienna, Va., Hubert W. Lakin, Silver Spring, Md., and Joseph F. Mullins, Washington, D. C.

Application March 1, 1950, Serial No. 147,114

1 Claim. (Cl. 23—253)

(Granted under Title 35, U. S. Code (1952), sec. 266)

In a device for making quantitative estimations using the spot test method including means for confining a predetermined area of a permeable test strip in contact with a fluid sample, the improvement which comprises the combination therewith of a transparent duct depending from said confining means adapted to receive and discharge spent sample fluid, and to receive and discharge hydrostatic liquid, calibration marks on said duct providing visual indication of the rate at which hydrostatic liquid falls in said duct, a calibrated capillary tube communicating with the lower end of said duct adapted by capillary attraction and restriction to control the discharge rate of hydrostatic fluid from said duct, means including an inlet tube also communicating with the lower end of said duct adapted to fill and empty said duct with hydrostatic fluid, and a three-way valve interposed between said duct,



inlet tube and capillary tube at the junctures thereof, adapted to provide in one position of said valve a passage between said duct and said capillary, and in another position a passage between said inlet tube and said duct.

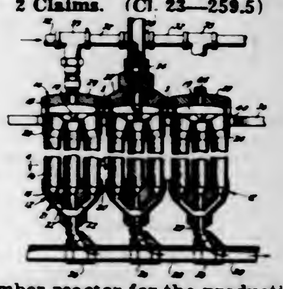
2,658,821

APPARATUS FOR PRODUCING CARBON BLACK

Herman L. Ammann, Madison, N. J.

Application October 26, 1950, Serial No. 192,327

2 Claims. (Cl. 23—259.5)



1. A chamber reactor for the production of carbon black by the explosion method and comprising a generally cylindrical bundle of vertical tubes; upper and lower headers for the tubes, the upper header having a generally cylindrical inner side wall and a conical bottom extending downwardly at the center, a hole being provided through said bottom for each tube, the tubes being mounted in the holes and terminating short of the inner face of said bottom to minimize the retention of carbon on said bottom; an igniter in the upper header, and an inlet pipe through the upper header side wall and substantially tangential thereto.

2,658,822

FLUIDIZED SOLIDS SYSTEM

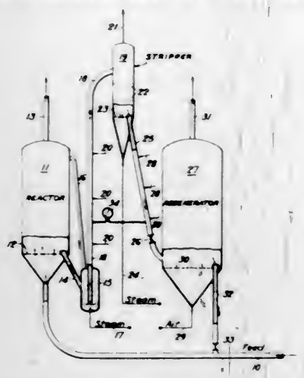
Robert J. Hengstebeck, Valparaiso, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application August 17, 1949, Serial No. 110,840

4 Claims. (Cl. 23—288)

1. An apparatus for contacting fluids with a fluidized finely divided solid omprising a first contacting chamber, a stripping chamber and a second contacting chamber, said stripping chamber being elevated above said first and second con-

tacting chambers, a conduit leading downwardly from a low point in said first chamber to a solids trap, a vapor transfer line extending between an upper part of said trap and an upper part of said first chamber, a conduit leading upwardly from a low point in said solids trap to a high point in said stripping chamber, a standpipe leading downwardly from a low point in said stripping chamber to a low point in said second chamber, means for introducing a carrier aeration gas into said conduit between said trap and said strip-



ping chamber, means for introducing stripping gas into said stripping chamber below the solids outlet of said stripping chamber, means for withdrawing stripping gas and stripped fluids from said stripping chamber, a conduit for charging a first reactant fluid to the base of said first chamber, a conduit for withdrawing the said first contacting fluid from the top of said first chamber, means for introducing a second reactant into the base of said second chamber, a conduit for withdrawing spent contacting fluid from the top of said second chamber, and means for conducting solids from a low point in said second chamber to a low point in said first chamber.

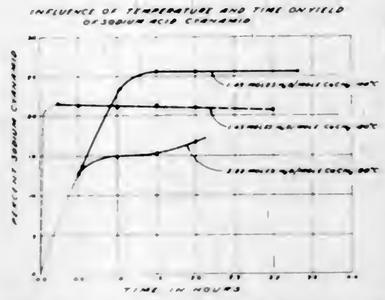
2,658,823
FUEL OIL COMPOSITION
Harry J. Andress, Jr., Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application August 28, 1951, Serial No. 244,095
4 Claims. (Cl. 44—62)

1. A distillate fuel oil containing a minor amount, sufficient to inhibit sludging and sedimentation during storage, of a neutral metal salt of tall oil obtained from the sulfate process of wood pulping, wherein the metal component is an alkaline-earth metal having a molecular weight less than 87.

2,658,824
SOIL CONDITIONING AGENTS OF DESERT PLANT ORIGIN AND THEIR USE
Ralph W. Dickenson, Anaheim, Calif.
No Drawing. Application November 14, 1949, Serial No. 127,276
9 Claims. (Cl. 71—1)

6. The method of treating arable soil which comprises applying thereto and in a concentration and amount sufficient to improve the agricultural properties of the soil, a dilute aqueous solution containing water-soluble constituents extracted from greasewood plants by water leaching the plants in disintegrated form at substantially atmospheric temperature, continuing the water leaching and digestion of the water and plant mixture over an extended period of time at atmospheric temperature and forming a single non-putrifying water solution containing the bulk of the water-soluble juice content of said plants.

2,658,825
PREPARATION OF PRODUCT CONTAINING SODIUM ACID CYANAMIDE
Raymond A. Vingee, Stamford, and Louis L. Lento, Jr., Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application November 23, 1949, Serial No. 129,165
5 Claims. (Cl. 71—2.2)



1. The method of preparing a product containing an alkali metal acid cyanamide and calcium hydroxide comprising heating a mixture of calcium cyanamide, water, and an alkali metal hydroxide in the respective calcium:water:alkali metal hydroxide mol ratio of about 1:1–2:1, at a temperature of 90°–110° C. for at least one hour.

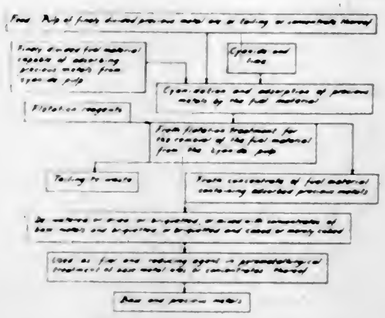
2,658,826
PLANT DEFOLIANT
Edgar W. Clarke, Laurel Springs, N. J., and Robert B. Doan, Drexel Hill, and Vincent J. Keenan, Ardmore, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application May 8, 1952, Serial No. 286,832
6 Claims. (Cl. 71—2.2)

1. An improved herbicide composition of the defoliant type comprising essentially a mixture of a cyanate defoliant, and a minor amount of potassium cyanide and a wetting agent.

2,658,827
METHOD OF RECOVERING PRECIOUS AND BASE METALS
Alfonso Rizo-Patrón R., San Isidro, Lima, Peru
Application April 12, 1950, Serial No. 155,415
8 Claims. (Cl. 75—2)

1. The method of recovering in a joint operation on their respective ores precious metals such as gold and silver, and base metals such as lead, copper and zinc, which comprises subjecting an ore or tailing or concentrate of said precious metals to treatment in an alkaline pulp with a cyanide and with naturally-occurring low-volatile-matter coals having low adsorptive capacity for precious metals, of the group consisting of anthracite coal, impure graphitic coals, carbonaceous schists, coal shales and mixtures thereof, in quantity greater than 1% by weight of the precious metal ore and sufficient both to

adsorb substantially all of the precious metals from said pulp and to serve as a substantial and important part of the fuel and reducing agent needed in the reduction of the base metal ore, removing the precious-metal-bearing coal from



said pulp, and using said precious-metal-bearing coal as a substantial and important part of the fuel and reducing agent in a pyro-metallurgical treatment of an ore or concentrate of at least one of the said base metals for the joint recovery of said base and precious metals.

2,658,828
PROCESS OF COMBINING SYNTHETIC RESINS AND OTHER MATERIALS WITH CELLULOSE
Donald K. Pattilloch, New York, N. Y., assignor to Chemloch Corporation, Springfield, Mass., a corporation of Massachusetts
No Drawing. Application September 15, 1948, Serial No. 49,465
3 Claims. (Cl. 92—21)

1. The stepwise process of incorporating substantial amounts of thermoplastic and thermosetting resins with cellulosic pulp fibers to the formation of resin-containing paper webs, which consists in pretreating the cellulosic fibers in an aqueous suspension with a cationically active wetting agent which is normally active to coagulate subsequently added resin dispersions, said cationically active wetting agent being an ionizable polar substance having a positively charged water-soluble portion and a larger water-insoluble surface active portion which includes a relatively long alkyl chain, the amount of such cationic active wetting agent, from about 5 to about 9.6% by weight based on the dry weight of the cellulosic fibers, being sufficient to render the fibers cationic active but not substantially in excess of such amount, treating the cationic active fibers in aqueous suspension with a water-soluble salt of a trivalent metal of the group consisting of the water-soluble chlorides, sulphates, acetates, formates, phosphates and nitrates of chromium, aluminum, nickel, ferric ion and gold, the amount of said salt, from about 5 to about 6% by weight based on the dry weight of the cellulosic fibers, being not greater than an amount which will be completely exhausted on the cationic active fibers, thereafter admixing an aqueous suspension of the so-treated fibers, free from trivalent metal salt in the liquid phase, with a negatively charged aqueous dispersion of the resin, the amount of resin being from 5% to 300% by weight based on the dry weight of the fibers, and forming a paper web from the resulting paper stock.

2,658,829
PROCESS OF CLARIFYING AND STABILIZING BEER
John Vincent MacDonough, Watertown, Mass.
No Drawing. Application April 19, 1952, Serial No. 283,249
4 Claims. (Cl. 99—48)

1. The process of treating beer which consists essentially in treating the fermented beer with a mixture of from 10 to 300 milligrams of Irish moss per liter of beer, from 10 to 100 milligrams of a compound selected from the group consisting of tannic acid and tannic acid salts, and from 5 to 50 milligrams of a reducing agent, thereby to produce a precipitate and thereafter removing the resulting precipitate.

2,658,830
METHOD FOR MAKING CONFECTIONS
Paul E. Schultz, Wichita, Kans.
No Drawing. Application March 17, 1952, Serial No. 277,085
2 Claims. (Cl. 99—134)

1. A method for making a confection having a normally liquid center of predetermined and widely variable consistency, comprising, combining finely ground ice with the dry ingredients forming the center of the confection, the ratio of said dry ingredients to said ice being controlled so as to produce a center of predetermined consistency when the ice is allowed to melt, pressing the resulting mixture of ice and dry ingredients into a center of desired size and shape, coating said center so as to form the outer shell of the confection, maintaining the temperature below the melting point of the ice during the combining, pressing, and coating operations, and allowing the temperature to rise above the melting point of the ice after the shell has become set, thereby producing a confection having a center of predetermined consistency.

2,658,831
BASE MATERIALS FOR FROZEN DESSERTS
Jacob R. Katz, University City, Mo.
No Drawing. Application August 29, 1952, Serial No. 307,164
8 Claims. (Cl. 99—136)

1. A base material for making frozen confections, said base material being capable of floating on water and being in the form of a solid aerated slab containing a bland tasting edible oil, sugar, propyl 3,4,5-trihydroxy benzoate, and locust bean gum.

2,658,832
DENTAL CEMENT
Jack De Ment, Portland, Oreg.
No Drawing. Application July 25, 1950, Serial No. 176,915
2 Claims. (Cl. 106—35)

1. As a new composition for dental prosthesis a cold-setting cement which consists of the implastic reaction product formed in the blending of approximately two to four parts of zinc hydroxyapatite having the formula

$$3Zn_3(PO_4)_2.Zn(OH)_2$$

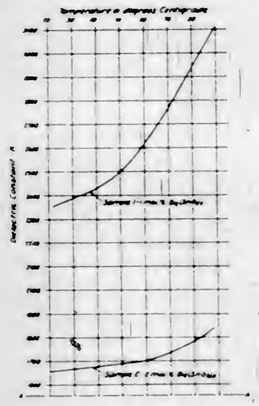
and approximately one part of an aqueous hardening liquid containing between approximately 20 and 70 per cent of solute dissolved in water, said solute being selected from the group of substances consisting of Zn chloride, fluoride and bromide.

2,658,833

BISMUTH STANNATE AND COMPOSITIONS EMPLOYING SAME

William W. Coffeen, Union, and Hartmut W. Richter, Rahway, N. J., assignors to Metal & Thermit Corporation, New York, N. Y., a corporation of New Jersey

Application June 3, 1952, Serial No. 291,456
6 Claims. (Cl. 106—39)



1. Bismuth stannate.

5. A range of novel ceramic dielectrics composed substantially of barium titanate and bismuth stannate, the molecular ratio of bismuth stannate to barium titanate being confined within the limits of ½ to 99½ on the one hand and 30 to 70 on the other.

2,658,834

METHOD OF PROTECTING METAL SURFACES, COMPOSITION THEREFOR, AND ARTICLE RESULTING THEREFROM

Carl A. M. Rex, Hoboken, N. J., assignor of one-half to Jack F. Govan and one-half to Roy H. Govan, both of Hoboken, N. J.

No Drawing. Application January 8, 1951, Serial No. 205,035
17 Claims. (Cl. 106—48)

1. An improved composition of matter for use as a protective coating for oxidizable metals consisting substantially of 2½% to 35% by weight sodium meta borate, up to 40% by weight plastic clay, and 15% to 90% by weight of an inorganic material of reduced valence, termed an oxidation inhibitor incapable of reacting with the said borate selected from the group consisting of graphite, carbon black, iron and copper, said percentage of sodium meta borate being based on the weight of the anhydrous salt.

2,658,835

SIZING MEDIUM AND FILM SIZED THEREWITH

Roy P. Wymbs, Fredericksburg, Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 21, 1949, Serial No. 122,866
14 Claims. (Cl. 106—287)

14. An aqueous softening and sizing medium suitable for application to gel films of regenerated cellulose, said medium comprising 5% glycerol, 0.1% colloidal silica, and 0.1% of a condensate of stearic acid with ethylene oxide containing 50 ethylene oxide units per molecule.

2,658,836

PRESERVING PLANT AND ANIMAL TISSUES

George R. Fessenden, Baltimore, Md.

No Drawing. Application September 14, 1951, Serial No. 246,719
11 Claims. (Cl. 117—3)

1. A process for preserving naturally colored plant and animal tissues, comprising, immersing the tissues in a color stabilizing and preserving solution containing essentially a volatile water-dissolving monohydric alcohol, thiourea and sodium sulfite, said solution being adjusted to a pH corresponding substantially to the pH of the liquid medium of the tissues in which the natural coloring matter is suspended, removing the tissues from the solution and permitting the volatile constituents retained in them to evaporate, whereby the natural colors of the tissues are stabilized and their physical shapes are retained, and then applying to said tissues a substantially transparent moisture-resistant resinous coating.

2,658,837

METHOD OF MARKING HYPODERMIC SYRINGES

Seymour N. Blackman, Teaneck, N. J., assignor to Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J., a corporation of New York

Application September 10, 1951, Serial No. 245,870
15 Claims. (Cl. 117—37)



1. A method of marking glass members having closely spaced surfaces, said method comprising the steps of placing on one of said surfaces a distinguishing mark composed of a metallic compound which in a temperature range that will not affect the dimensional stability of the glass members is heat-decomposable to form nascent metal that is non-reactive with the ambient atmosphere, placing said surfaces in closely spaced superimposed position, and heat-decomposing said compound so as to release nascent metal onto both said juxtaposed surfaces simultaneously to enter said surfaces and form stains therein.

2,658,838

METHOD OF COATING MINERAL GRANULES

Paul Teetor, Somerville, Clinton Grove, Basking Ridge, and Charles W. Heller, Bound Brook, N. J., assignors to Central Commercial Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application November 1, 1948, Serial No. 57,838
7 Claims. (Cl. 117—100)

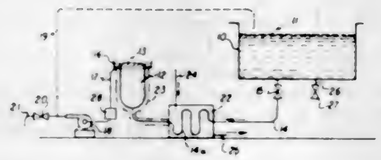
1. The herein described method of producing neutral white, weather-resistant mineral surfacing granules which consists in crushing buff burning clay to desired granule size, coating the individual granules with an aqueous mixture comprising a flux whose fusion point is above 1500° F., and a white burning clay, the amount of said white burning clay being in excess of that required to react with the flux and sufficient to cause a substantial portion thereof to remain on the granules as a white pigment, rapidly heating the granules at temperatures of from 1500° F. to 2000° F. to eliminate from the clay substantially all combustible and volatile materials and finally retaining the granules at the maximum of the aforestated temperatures for a period of time sufficient to cause insolubilization of said flux and to fuse the coating on the surfaces of the individual granules.

2,658,839

PROCESS OF CHEMICAL NICKEL PLATING

Paul Talmey, Barrington, and William J. Crehan, Hinsdale, Ill., assignors to General American Transportation Corporation, Chicago, Ill., a corporation of New York

Application April 21, 1951, Serial No. 222,222
11 Claims. (Cl. 117—102)



1. The continuous process of chemically plating with nickel a solid body essentially comprising an element selected from the group consisting of iron, cobalt, nickel, aluminum, copper, silver, gold, palladium and platinum, which comprises providing an aqueous solution of a nickel salt and a hypophosphite, wherein the ratio between the nickel ions and the hypophosphite ions in said solution is within a first predetermined range and the absolute concentration of the hypophosphite ions in said solution is within a second predetermined range and the pH of said solution is within a third predetermined range, storing the bulk of said solution at a relatively low temperature well below the boiling point thereof in a reservoir, holding a small portion of said solution as a bath at a relatively high temperature slightly below the boiling point thereof in a plating chamber, circulating said solution at a low rate from said reservoir to said plating chamber and then back to said reservoir, heating said solution substantially to said relatively high temperature after withdrawal thereof from said reservoir and before introduction thereof into said plating chamber, cooling said solution substantially to said relatively low temperature after withdrawal thereof from said plating chamber and before return thereof to said reservoir, immersing said body in said bath in said plating chamber, withdrawing said body from said bath in said plating chamber after a time interval corresponding to the thickness of the nickel plating thereon that is desired, and adding during said time interval soluble reagents to said solution in said reservoir to maintain in said bath in said plating chamber during said time interval said ratio and said absolute concentration and said pH respectively in said first and said second and said third predetermined ranges.

2,658,840

PROCESS FOR THE MANUFACTURE OF LAMINATES

Joseph C. Perry, Los Angeles, Calif., assignor to Agrashell, Inc., Los Angeles, Calif., a corporation of Delaware

No Drawing. Application July 18, 1950, Serial No. 174,580
9 Claims. (Cl. 117—111)

1. In the straight line production of plywood and other laminates from veneers, using a glue spreading machine having a glue reservoir, spreader and doctor rolls, the process which comprises mixing a thermosetting phenol-formaldehyde resin glue and water with a solid extender in weight proportions of 1 resin solids to .5 to about 2 of extender, cooling the resulting fusible glue mix while in said machine and maintaining its temperature at from 35° to 75° F. during the whole period the glue remains in said machine and until it is applied to the veneers whereby heat developed in the glue while in the machine is taken up and whereby satisfactory spreading qualities are retained and spreading the cooled glue on the veneers.

2,658,841

PROCESS OF CHEMICAL NICKEL PLATING AND BATH THEREFOR

Gregoire Gutzeit, Highland, and Abraham Krieg, Gary, Ind., assignors to General American Transportation Corporation, Chicago, Ill., a corporation of New York

Application November 8, 1950, Serial No. 194,656
12 Claims. (Cl. 117—130)

1. The process of chemically plating with nickel a solid body essentially comprising an element selected from the group consisting of copper, silver, gold, aluminum, iron, cobalt, nickel, palladium and platinum, which comprises contacting said body with a bath consisting essentially of an aqueous solution of a nickel salt and a hypophosphite, wherein the ratio between nickel ions and hypophosphite ions in said bath expressed in molar concentrations is within the range 0.25 to 0.60, wherein the absolute concentration of hypophosphite ions in said bath expressed in mole/liter is within the range 0.15 to 0.35, and wherein the initial pH of said bath is within the approximate range 4.5 to 5.6.

2,658,842

PROCESS OF CHEMICAL NICKEL PLATING AND BATH THEREFOR

Gregoire Gutzeit, Highland, Ind., and Ernest J. Ramirez, Forest Park, Ill., assignors to General American Transportation Corporation, Chicago, Ill., a corporation of New York

Application January 4, 1951, Serial No. 204,424
19 Claims. (Cl. 117—130)

1. The process of chemically plating with nickel a catalytic material essentially comprising an element selected from the group consisting of copper, silver, gold, aluminum, iron, cobalt, nickel, palladium and platinum, which comprises contacting said material with a bath consisting essentially of an aqueous solution of a nickel salt and a hypophosphite and a salt of a simple short chain saturated aliphatic dicarboxylic acid.

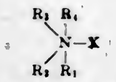
2,658,843

METHOD OF RENDERING REGENERATED CELLULOSE RESISTANT TO STICKING AND ARTICLE PRODUCED

William O. Brillhart, Fredericksburg, Va. assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 25, 1950, Serial No. 175,892
8 Claims. (Cl. 117—144)

1. A method of rendering regenerated cellulose film resistant to sticking which comprises treating said film while in the wet gel state with an aqueous bath containing a hydrolyzed organic ester of silicic acid and a compound having the general formula:



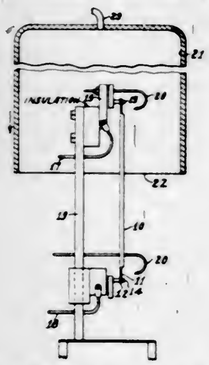
where R_1 is an alkyl group of at least 12 carbon atoms, R_2 and R_3 are alkyl groups of 1 to 20 carbon atoms, R_4 is an alkyl group of 1 to 3 carbon atoms, and X is a radical selected from the group consisting of organic and inorganic anions.

2,658,844

PROCESS OF CARBURIZING

Willis E. Harbaugh, Bareville, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application August 30, 1952, Serial No. 307,193
10 Claims. (Cl. 148—13.1)



1. The process of carburizing a thoriated tungsten element, comprising heating the thoriated tungsten element in a carburizing atmosphere containing inert gas and hydrocarbon vapor at sufficiently high temperature to decompose the hydrocarbon, and then continuing the heating of the thoriated tungsten element at a higher temperature in an atmosphere in which the hydrocarbon content is rapidly decreasing.

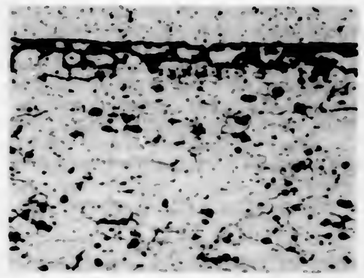
2,658,845

HEAT TREATMENT OF ALUMINUM ALLOYS

Lawrence J. Barker, Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif., a corporation of Delaware

Application April 7, 1950, Serial No. 154,697
6 Claims. (Cl. 148—21.91)

1. A method of preparing heat treatable aluminum alloy surfaces for reception of non-chemically bonded coatings, comprising the steps of artificially under-aging the normally solution heat treated alloys by heating at a selected temperature within the range of from about 200° to about 400° F. for a predetermined time within the range of from about 1 to about 20 hours, the time varying substantially inversely with the aging temperature, discontinuing said heating when precipitation and agglomeration of the soluble alloy constituents is non-uniform and



has occurred predominantly within and adjacent to the grain boundaries, and thereafter subjecting the surface of the under-aged metal to the action of a corrosive media which selectively attacks the grain boundaries producing intergranular fissures which provide a keying action to firmly retain the subsequently applied coating.

2,658,846

SOLDERING FLUX

John A. De Rosa, Brooklyn, and Chester A. Snell, New York, N. Y., assignors to the United States of America as represented by the Secretary of the Army

No Drawing. Application December 12, 1951, Serial No. 261,365
3 Claims. (Cl. 148—25)

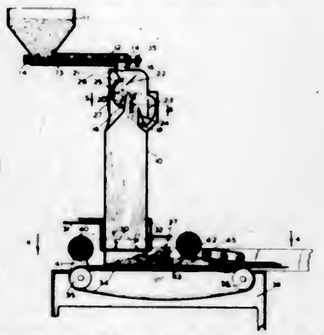
3. A soldering flux comprising in combination 70–80 parts by weight of lanolin and 20–30 parts by weight of a compound selected from the group consisting of monamyl acid orthophosphate and monoamyl orthophosphoric acid.

2,658,847

METHOD OF MAKING COMPOSITE, CONSOLIDATED PRODUCTS AND APPARATUS THEREFOR

Mortimer D. Macdonald, Corvallis, Oreg., assignor to State of Oregon, acting by and through the Oregon State Board of Forestry

Application July 26, 1949, Serial No. 106,894
16 Claims. (Cl. 154—101)



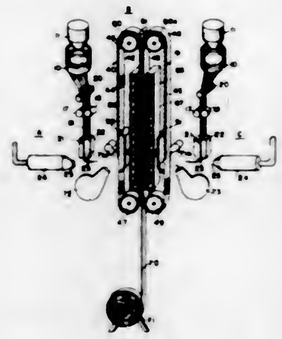
6. The method of making composite, consolidated products from material in particle form which comprises entraining the particles of the said material in a plurality of high velocity gas streams, directing the particles propelled by said streams against each other in a space removed from said high velocity streams, thereby causing the particles to strike against each other and lose their momentum in substantial degree, passing the said particles through a spray of adhesive material for coating them with adhesive, shaping the coated particles, and consolidating the shaped particles by the application of pressure.

2,658,848

METHOD FOR MAKING GLASS PAPER

Dominick Labino, Waterville, Ohio, assignor to Glass Fibers, Inc., Toledo, Ohio, a corporation of Ohio

Application November 17, 1951, Serial No. 256,930
2 Claims. (Cl. 154—101)



1. A method of making glass paper that includes the steps of (*a*) establishing at least a pair of independent webs of glass fibers, said webs consisting of glass fibers of substantially uniform diameter and which range in diameter between about 0.04 and 1 micron and varying not more than about ±0.45 micron, said webs each having an exposed face of glass fiber in relatively loose and fluffy condition, (*b*) moving said webs along to bring the corresponding exposed faces of each pair of webs together, and (*c*) applying a wetting liquid onto at least one of said pair of glass fiber webs while said webs are moving into coincidence to interfelt said fibers at the said contacting faces and form a single composite web of paper.

2,658,849

FIBER BONDING RESIN AND BONDED PRODUCT

Baak W. Lew, Arden, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 30, 1951, Serial No. 208,657
12 Claims. (Cl. 154—128)

5. A composition for bonding loosely felted mats of glass fibers consisting essentially of equal parts by weight of discrete particles of crystalline ethylene glycol fumarate polyester resin and discrete particles of a resinous polyester of fumaric acid and a mixed polyol consisting of from 94 to 98 mol per cent of 2,2-di-(4 beta hydroxyethoxy phenyl) propane and from 2 to 6 mol per cent of glycerol.

2,658,850

4-OCTYL- AND NONYL-PYRIDINES FOR CONTROLLING FUNGOUS ATTACKS IN ORGANIC MATERIALS

Francis E. Cislak, Indianapolis, Ind., assignor to Reilly Tar and Chemical Corporation, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application February 8, 1950, Serial No. 143,155
12 Claims. (Cl. 167—33)

1. The method of combating fungous attacks in organic materials which comprises treating the organic materials with a fungicidal composition comprising a 4-alkylpyridine, the alkyl group of which has at least eight carbon atoms but not more than nine carbon atoms.

2,658,851

SALT DENTIFRICE

Jacques Edwin Brandenberger, Neuilly-sur-Seine, and François Jean Bossard, Paris, France

No Drawing. Application April 11, 1950, Serial No. 155,352. In France April 20, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 20, 1964
4 Claims. (Cl. 167—93)

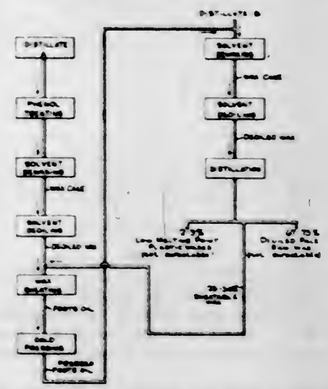
2. A dentrifice composition of uniform paste-like consistency comprising more than 41% of a crystal-free concentrated hypertonic sodium chloride solution, with the liquid solvent and the dissolved salt in such proportion that the sodium chloride content is not less than necessary to maintain the solution in a near saturated condition, the said concentrated hypertonic solution being retained in its liquid state within the paste by forming part of an emulsion held and stabilized by chemically neutral emulsifying agents.

2,658,852

METHOD OF MANUFACTURING LOW MELTING POINT PLASTIC WAXES

John L. Tiedje and John Basil McGrath, Sarnia, Lambton, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware

Application July 20, 1950, Serial No. 174,938
11 Claims. (Cl. 196—17)



1. The process of preparing low melting point plastic waxes from foots oil derived from a light, waxy, lubricating oil distillate which comprises pressing the foots oil at about 80° F., blending the pressed foots oil with a heavy waxy lubricating oil distillate of higher boiling point than said light waxy lubricating oil distillate, dewaxing the

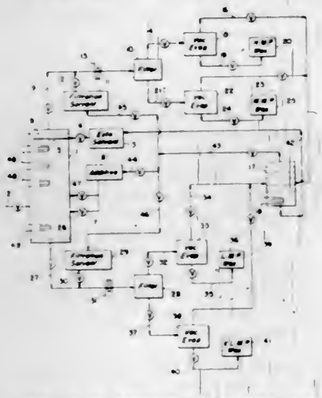
resulting blend, deoiling the wax cake obtained from said dewaxing, and fractionating the deoiled wax cake to obtain said low melting point plastic waxes.

2,658,853

SOLVENT FRACTIONATION OF WAX-CONTAINING MIXTURES

Edgar W. Clarke, Laurel Springs, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 29, 1951, Serial No. 234,381
5 Claims. (Cl. 196—17)



1. The method of separating a wax-containing mixture into fractions of different melting points which comprises concurrently contacting said wax-containing mixture in an extraction zone with an extraction solvent and a single solvent additive at a temperature such that two immiscible liquid phases are formed, one comprising a higher melting wax fraction containing solvent and additive, and the other comprising solvent and additive and a low-melting wax fraction, separating the phases one from another, separately adding to each of the phases a filtration solvent at a temperature such that a solid phase and a liquid phase are formed, in each case the solid phase comprising a higher melting wax fraction containing a minor portion of extraction solvent, additive, and filtration solvent, and the liquid phase comprising a lower melting fraction containing a major portion of extraction solvent, additive and filtration solvent, and removing the extraction solvent, additive and filtration solvent from each fraction, the extraction solvent consisting of 2.9–3.1 volumes of substantially anhydrous phenol per volume of wax-containing mixture, the additive consisting of 0.2–0.4 volumes of water per volume of wax-containing mixture, and the filtration solvent comprising water.

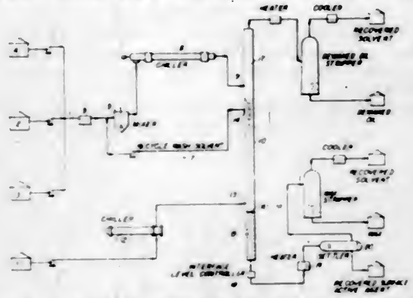
2,658,854

GRAVITY DEWAXING OF WAX-BEARING HYDROCARBON FRACTIONS

Harold C. Myers and Arnold O. Pukkila, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application October 1, 1951, Serial No. 249,114
7 Claims. (Cl. 196—18)

1. A process for separating wax and oil from a wax-oil mixture, which comprises adding a polyhydroxy alcohol selected from the group consisting of diols and triols of lower aliphatic hydrocarbons, which is capable of remaining in substantially the liquid state at the dewaxing temperature, is substantially soluble in oil and wax, possesses high solvent power for the surface active agent set forth hereinafter, and is chemically stable and inert under the conditions of operation, to said wax-oil mixture, in an amount varying between about one per cent and about 200 per cent based on the weight of the wax-oil mixture, to produce a polyhydroxy alcohol-wax-oil mixture; agitating said polyhydroxy alcohol-wax-oil mixture in the presence of a surface active agent selected from the group consisting of alkali metal alkyl aromatic hydrocarbon sul-



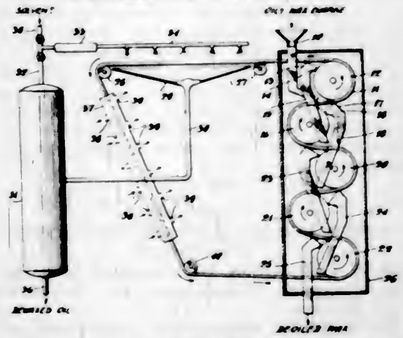
fonates and alkali metal alkyl hydroxy aromatic hydrocarbon sulfonates, in amounts of at least about 0.1 per cent based on the weight of the wax-oil mixture but less than the amount necessary to cause emulsification of the wax-oil mixture in the polyhydroxy alcohol, to produce a dispersion of the polyhydroxy alcohol in the wax-oil mixture in which the polyhydroxy alcohol is the dispersed phase; cooling said dispersion to the dewaxing temperature to associate wax with said dispersed phase thereby producing a dispersed wax-polyhydroxy alcohol phase; and separating said dispersed wax-polyhydroxy alcohol phase from said dispersion.

2,658,855

DEOILING WAX

Grady L. Payne, Mickleton, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application June 27, 1951, Serial No. 233,819
4 Claims. (Cl. 196—20)



1. A continuous method for deoiling an oily hydrocarbon wax, which comprises continuously and intimately contacting an oily wax charge with a counter-currently moving adsorbent belt at a temperature below the melting point of said wax, continuously pressing the wax contained on said adsorbent belt by passing said belt together with said wax around and over a revolving roller surface whereby wax, in the form of a thin cake, collects in the clearance space between said belt and said roller surface while oily components are

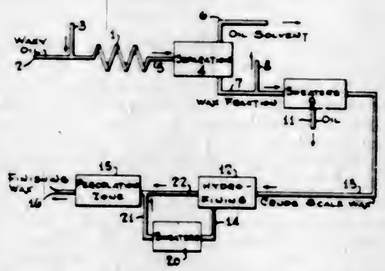
simultaneously sorbed from said wax into the pores of said moving adsorbent belt, continuously releasing the resulting wax cake from said pressing, continuously scraping adhering wax from said belt and said roller surface, continuously transferring the wax so scraped to further contact with said counter-currently moving adsorbent belt, continuously passing said belt together with said wax around and over a second roller surface revolving in a direction opposite to that of the aforementioned roller surface whereby wax is again subjected to pressing in the space between said belt and said second roller surface, continuously releasing the resulting wax cake from said pressing, continuously scraping adhering wax from said belt and said second roller surface, repeating the cycle of above steps until a wax product of predetermined oil content is obtained, continuously washing said moving belt emerging from contact with said roller surfaces with an oil solvent, continuously passing the moving belt through a drying zone and thereafter recycling the resulting dry revivified adsorbent belt to further contact with said oily wax charge.

2,658,856

PROCESS OF REFINING AND STABILIZING WAXES

Stephen F. Perry, Westfield, and Randolph M. Bailly, Little Silver, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 27, 1951, Serial No. 238,818
8 Claims. (Cl. 196—21)



1. Process for the production of high quality petroleum waxes which comprises subjecting a wax fraction containing less than about 3% of oil to contact with a catalyst comprising 5 to 13% by weight of molybdenum oxide on alumina at a temperature in the range from about 400–700° F., and at a pressure in the range from about 0–400 lbs. per sq. in. wherein a quantity of hydrogen in the range from about 100–500 cu. ft. per barrel of wax is utilized, said catalyst being characterized by containing less than about 0.5% volatile matter and which is further characterized by having a pore diameter greater than 100 Angstrom units, said catalyst being prepared by recalcination at a temperature of about 1200° F. of a catalyst comprising molybdenum oxide on alumina.

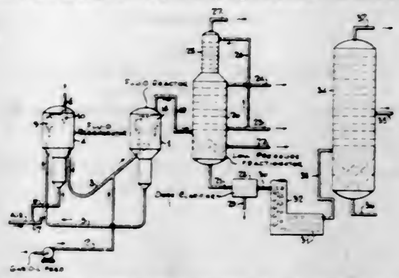
2,658,857

BITUMINOUS SATURANT

Joseph C. Roediger, Staten Island, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware

Application March 29, 1951, Serial No. 218,136
4 Claims. (Cl. 196—49)

1. Process for preparing bituminous material, suitable as a saturant for fiber board and other purposes, which comprises subjecting the cycle oil from a catalytic cracking operation to thermal



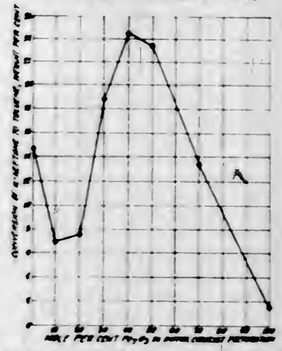
cracking said cycle oil having a gravity of 19.2 API, 72½% of which boils above 700° F. and then distilling the tar fraction to the desired consistency.

2,658,858

AROMATIZATION REFORMING AND CATALYSTS FOR EFFECTING THE SAME

William H. Lang, William A. Stover, and Carlos L. Gutzeit, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

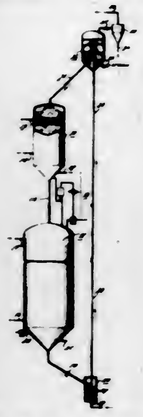
Application June 22, 1949, Serial No. 100,562
4 Claims. (Cl. 196—50)



1. A process for effecting aromatization reforming of hydrocarbon mixtures containing aromatizable hydrocarbons, which comprises contacting said hydrocarbon mixtures with a chromium oxide-iron group metal oxide catalyst composition obtained by initially intimately mixing moist, undried hydrous chromium oxide with moist, undried hydrous iron group metal oxides in proportions such that the final chromium oxide-iron group metal oxide catalyst composition will contain chromium oxide and iron group metal oxide in a mol per cent ratio, expressed on the basis of the metal sesquioxides, varying between about 40:60 and about 70:30, respectively, to produce a mixture; treating said mixture at temperatures sufficient to dry the mixture but below about 350° C. to produce a dehydrated mixture; comminuting said dehydrated mixture; and calcining said dehydrated mixture at temperatures varying between about 500° C. and about 600° C., under non-oxidizing conditions and for a period of time of at least about five hours; at temperatures falling within the range varying between about 450° C. and about 650° C.; at hydrocarbon partial pressures falling within the range varying from atmospheric and up to about 30 pounds per square inch gauge; at liquid hourly space velocities falling within the range varying between about 0.2 and about 2.5; and

under total pressures varying from atmospheric and up to about 300 pounds per square inch gauge.

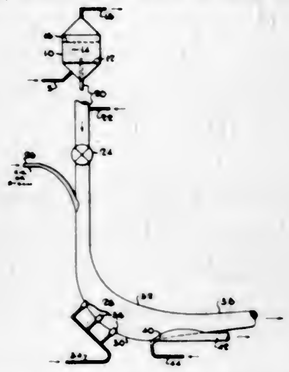
2,658,859
CATALYTIC CONVERSION OF HYDROCARBONS
Jack C. Dart, Moylan, Pa., assignor to Houdry Process Corporation, Philadelphia, Pa., a corporation of Delaware
Application March 5, 1949, Serial No. 79,753
10 Claims. (Cl. 196—52)



1. The process which comprises contacting a hot hydratable adsorbent contact mass while in hydratable condition with transporting hydrocarbon vapors to transport said mass to a fixed location above a reaction zone, said vapors comprising hydrocarbons subject to endothermic conversion in the presence of the contact mass and said contact mass having the property of providing exothermic heat of hydration at elevated temperatures, maintaining operating conditions during such transportation to effect conversion of hydrocarbons in said vapors by endothermic reactions, separating said contact mass from said transporting hydrocarbon vapors at said location, introducing the thus separated contact mass into a reaction zone for further contact with hydrocarbons to be processed in contact therewith at elevated temperature, and hydrating said contact mass while still at an elevated temperature by adsorption of steam thereon intermediate said location and said reaction zone, thereby raising the temperature of the contact mass materially above the temperature of said mass when initially separated from the transporting hydrocarbon vapors at said location, and thereby also resorting to the contact mass at least in part sensible heat given up by said mass during transportation by said hydrocarbon vapors.

2,658,860
SEPARATION OF CONTAMINATED CATALYST PARTICLES IN A HYDROCARBON CONVERSION PROCESS
Albert B. Welty, Jr., Deer Path, Mountainside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Original application June 28, 1946, Serial No. 679,885. Divided and this application June 30, 1950, Serial No. 171,427
4 Claims. (Cl. 196—52)

1. In a hydrocarbon conversion process wherein hydrocarbon vapors are contacted with a suspension of finely divided conversion catalyst consisting essentially of solid particles smaller than about 50 mesh and wherein the catalyst is circulated from the conversion zone to a regeneration zone and thence back to the conversion zone, the improvement which comprises withdrawing a relatively dense column of the finely divided catalyst particles downwardly from one of the aforesaid zones, injecting a gas into the withdrawn catalyst column to accelerate the flow of the resulting catalyst suspension to a velocity between about 30 to 100 feet per second, passing the catalyst suspension at this velocity through a confined, elongated path comprising a curved section of about 5 to 30 feet radius of curvature, thereby imparting an abrupt change in direction of catalyst flow and creating a centrifugal force

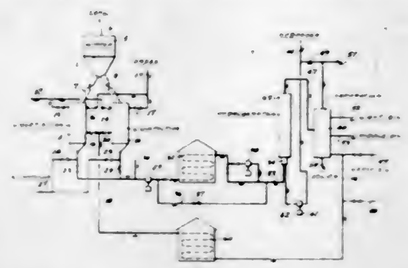


at the point of directional change adequate to concentrate particles characterized by a relatively large individual particle weight in an outside stratum of the curved section of the catalyst path and to concentrate particles characterized by a relatively small individual particle weight in an inside stratum of the curved section of the catalyst path, injecting a small amount of extraneous gas into the outside stratum of solids in the curved section of the catalyst path approximately transversely to the direction of catalyst flow to strip out particles of relatively low specific gravity from the outside stratum into the inside stratum, selectively removing the outside stratum rich in contaminated catalyst particles of relatively high specific gravity, and recirculating the remainder of the catalyst to the conversion and regeneration zones.

2,658,861
PROCESS FOR THE HYDROGENATION OF COAL
Ernest F. Pevere and Howard V. Hess, Beacon, and George B. Arnold, Glenham, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application November 19, 1948, Serial No. 61,012
2 Claims. (Cl. 196—62)

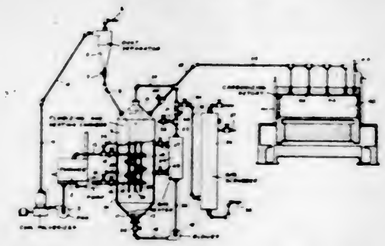
1. A process for the hydrogenation of fusible coal which comprises contacting particles of said coal having an average diameter smaller than about ½ inch with a hydroaromatic oil at a temperature within the range of from about 550 to about 850° F. and above the plastic point of said coal, mixing the coal and oil at said temperature for a period of time sufficient to form a substantially homogeneous liquid mixture, contacting said liquid mixture with hydrogen in a hydrogenation zone at a temperature within the range of

from about 600 to about 900° F. and a pressure within the range of from about 1,000 to about 10,000 pounds per square inch gauge whereby hydrogenation of said liquid takes place with the formation of particulate solid residue, maintain-



ing a fluidized bed of said particulate solid residue within said hydrogenation zone, discharging resulting fluid products of hydrogenation and solid residue from said hydrogenation zone, and recovering said fluid products.

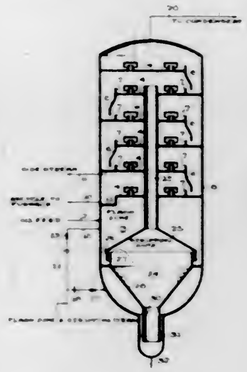
2,658,862
PROCESS FOR THE DEFLUIDIZATION AND FIXED-BED COKING OF A PREHEATED FLUIDIZED COAL
Harold R. Horner, Indianapolis, Ind., assignor to Reilly Tar & Chemical Corporation, Indianapolis, Ind., a corporation of Indiana
Application June 9, 1950, Serial No. 167,187
1 Claim. (Cl. 202—22)



In a process of producing a structurally dense, hard metallurgical coke from coal and securing a maximum yield of undecomposed by-products, those steps of heating the individual, discrete particles of finely ground coal in a fluidized state to a temperature immediately under its coalescing temperature range; conveying in suspension the heated fluidized coal beyond influence of continued fluidization directly into a heated confined retort; and heating the coal in said retort by indirect heating so as to defluidize said coal by driving off fluidizing gas and continuing heating said coal through a plastic state to a coked state.

2,658,863
PROCESS AND APPARATUS FOR INCREASING VACUUM TOWER PRODUCTION
John R. Guala, Bywood, Upper Darby, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 15, 1952, Serial No. 298,986
13 Claims. (Cl. 202—40)

1. A vacuum fractionation process comprising introducing preheated liquid-containing feed into a flash zone, passing vaporized constituents upwardly into the bottom of a fractionating zone, passing these vapors through the fractionating zone in countercurrent contact with downflowing condensate, passing unvaporized liquid from the flash zone downwardly through a stripping zone in countercurrent contact with upflowing stripping vapor, passing stripped and stripping vapors directly from the stripping zone into the fractionating zone substantially above the bottom thereof whereby the pressure drop between the top of the fractionating zone and the stripping zone is reduced substantially, maintaining a partial vacuum at the top of the fractionating zone and thus throughout the other zones, removing unvaporized liquid from the bottom of the stripping zone and removing fractionated material from the fractionating zone.

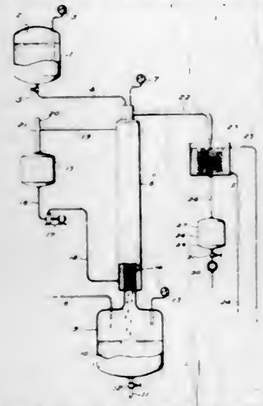


6. Vacuum fractionating apparatus comprising a tower, means in the upper portion thereof forming a fractionating section, means in the lower portion thereof forming a stripping section, means for introducing stripping vapors into the stripping section, a compartment within the tower between the fractionating section and the stripping section forming a flash section, means for introducing preheated feed into the flash section, means forming a vapor passageway between the flash section and the bottom of the fractionating section, means at the bottom of the flash section forming a connection with the stripping section and adapted to permit flow of liquid from the flash section to the stripping section, a vapor conduit connected to the stripping section and adapted to discharge into the fractionating section substantially above the bottom thereof, means in association with the top of the tower for maintaining a partial vacuum therein, means for removing unvaporized liquid from the bottom of the stripping zone and means for removing fractionated material from the fractionating section.

2,658,864
PURIFICATION OF MERCAPTOTHIAZOLES
Robert H. Ebel, Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application December 23, 1949, Serial No. 134,812
4 Claims. (Cl. 202—46)

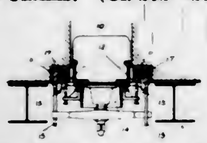
1. In the method of working up 2-mercaptobenzothiazole, containing benzothiazole as an impurity, prepared by reacting aniline, carbon bisulfide, and sulfur, the improved method of removing benzothiazole which consists of subject-

ing the molten product to distillation with steam at temperatures of 170–240° C. for sufficient time



to recover substantially all benzothiazole without decomposition of mercaptobenzothiazole.

2,658,865
COKE OVEN DOORFRAME
Ernst Wolff, Bochum-Linden, Germany
Application November 9, 1949, Serial No. 126,315
6 Claims. (Cl. 202—239)



1. A metallic, one piece, door frame for use in surrounding a doorway at the end of a horizontal coking chamber and comprising vertical portions at the sides of the doorway and transverse portions at the top and bottom of said doorway, said vertical portions, being bounded by four vertical surfaces, of substantially equal width and each surface being continuous and intersecting two other of the surfaces substantially at right angles.

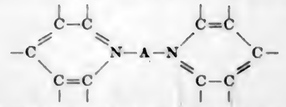
2,658,866
ELECTRODEPOSITION OF TIN-NICKEL ALLOY
Norman Parkinson, Hayes, England, assignor to John Ireland, Middlesex, England
No Drawing. Application May 9, 1950, Serial No. 161,017
Claims priority, application Great Britain November 22, 1949
1 Claim. (Cl. 204—43)

A process which comprises electrodepositing tin-nickel alloy coatings from an aqueous solution bath constituted as follows:

	G./l.
$SnCl_2, 2H_2O$	100
$NiCl_2, 6H_2O$	400
NaF	55
NH_4HF_2	70

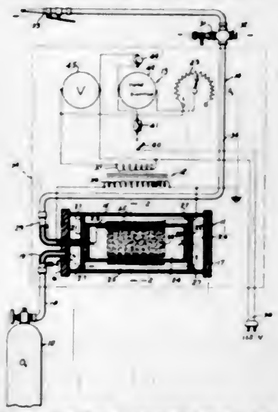
2,658,867
ELECTRODEPOSITION OF NICKEL
John D. Little, Bay Village, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application March 6, 1952, Serial No. 275,220
13 Claims. (Cl. 204—49)

1. A nickel plating solution comprising an aqueous, acid solution of nickel material supplying nickel ions and an addition agent dissolved in said solution and capable of imparting to electrodeposits produced therein improved rates of increasing brightness with respect to increasing thickness of deposit, said solution consisting essentially of a composition from the class consisting of aqueous solutions of nickel sulfate and aqueous solutions of nickel sulfate and nickel chloride and said addition agent being at least one bis-pyridinium compound of the formula,



where A is a chain made up of from 1 to 10 carbon atoms and from 0 to 2 oxygen atoms and the free valences are satisfied by hydrogen and from 0 to 4 hydrocarbon groups containing in the aggregate for both pyridinium groups from 1 to 10 carbon atoms, the extra valences of the carbon atoms of A being satisfied by hydrogen and from 0 to 1 hydrocarbon groups containing in the aggregate from 1 to 6 carbon atoms, and where each hydrocarbon substituent group is attached to from 1 to 2 atoms of the group carrying such substituent group, said addition agent being present in solution to the extent of from 0.1 to 1.0 gram per liter.

2,658,868
OZONE GENERATOR
Roy G. Collison, Los Angeles, Calif.
Application June 15, 1951, Serial No. 231,853
1 Claim. (Cl. 204—320)



An ozone generator, comprising an elongate hollow body wall having a closure wall at each end, partitioning walls within said body wall and in peripheral contact therewith and in spaced relation with the end walls to form end chambers, a conduit opening into one of said end chambers for the admission of oxygen thereinto from a source of supply, a cylinder of dielectric material disposed between and secured at its ends to the confronting faces of said partitioning walls and spaced from said body wall to form an elongate annular chamber between said partitioning walls, said partitioning walls having apertures therethrough establishing communication between the annular chamber and said end chambers, the said partitioning wall remote from the said one of said end chambers having an aperture leading from the adjacent end chamber into said cylinder, an ozone lead-off conduit leading to the outside of the generator from the interior of said cylinder at the end of the cylinder remote from the last named aperture, a metal fabric electrode within said annular chamber and surrounding the cylinder, a cylindrical metal fabric electrode within said cylinder in close proximity to the wall thereof, and an electric current conductor connected to each of said electrodes for connection to a source of electric potential.

2,658,869
GREASE COMPOSITIONS
Fred H. Stross and Stanley T. Abrams, Berkeley, and Walter H. Peterson, Richmond, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 24, 1950, Serial No. 170,248
8 Claims. (Cl. 252—28)

8. A lubricating composition comprising a major amount of a lubricating oil having dispersed therethrough in colloidally gelled form in an amount sufficient to thicken said oil, an amorphous gel comprising a mixture of a major component of the group consisting of silica and polyvalent metal silicates and a minor component of the group consisting of polyvalent metal oxides and polyvalent metal hydroxides, the amount of polyvalent metal being between 2% and 25% by weight of the inorganic constituents of said gel, and from about 5% to about 70% based on the weight of the gel, of a hydrophobic surface active agent absorbed on the surfaces of the gel.

2,658,870
CUTTING OIL COMPOSITION
Henry A. Ambrose, Penn Township, Allegheny County, and Oliver L. Brandes, Gibsonia, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application March 3, 1952, Serial No. 274,678
3 Claims. (Cl. 252—48.6)

1. An improved cutting oil composition adapted to be applied as a thin high-speed jet consisting of at least 50 per cent by weight of a mineral lubricating oil having a viscosity of about 70 to about 300 SUS at 100° F.; about 1 to about 20 per cent by weight of a mineral lubricating oil having a viscosity between about 100 and about 200 SUS at 210° F.; about 0.5 to about 15 per cent by weight of a fixed fatty oil; and about 1 to about 10 per cent by weight of the residue which remains after removal of the solvent from the extract obtained by extracting a petroleum distillate oil with a solvent capable of removing polycyclic hydrocarbons and sulfur compounds from petroleum distillate oils, said residue having a viscosity between about 55 and about 70 SUS at 210° F.

2,658,871
LUBRICATING COMPOSITION
Paul V. Smith, Jr., Westfield, and James B. McPherson, Jr., Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 3, 1949, Serial No. 114,066
4 Claims. (Cl. 252—49.8)

1. A lubricating composition which comprises a major amount of a mineral lubricating oil having combined therewith about 0.5 to 3.0% by weight of an ester of phosphoric acid, said ester being formed by reacting phosphorus oxychloride with the crude product obtained by subjecting a copolymer of propylene and butylene to the oxo process.

2,658,872
MODIFIED COPOLYMERS AND PREPARATION AND USES THEREOF
William C. Holliday, Jr., Fanwood, and Marvin H. Mahan, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application March 5, 1949, Serial No. 79,872
16 Claims. (Cl. 252—59)

1. The process which comprises essentially alkylating with 0.2 to 2.0 parts by weight of octadecene, 1 part by weight of a copolymer of a polymerizable monoolefinic hydrocarbon containing an aromatic nucleus, and an alkene of 3 to 5 carbon atoms, said copolymer containing about 15 to 40% by weight of combined aromatic constituent and having an average molecular weight of at least 2,000, at a reaction temperature of −50° C. to +50° C.

2,658,873
GERMICIDAL DETERGENT COMPOSITION
Melvin Wayne Marcoux, Chicago, Ill. assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application May 21, 1947 Serial No. 749,603
3 Claims. (Cl. 252—106)

1. A germicidal detergent composition which provides a clear solution when diluted to 1,000 parts with water, comprising trisodium phosphate, tetrasodium pyrophosphate, a water-soluble quaternary ammonium halide having germicidal properties, and sodium carbonate, the proportions by weight being from 1 to 3 parts of the quaternary ammonium compound, from 5 to 50 parts of sodium carbonate, from 2 to 15 parts of trisodium phosphate, and from 3 to 30 parts of the pyrophosphate.

2,658,874
SMOKE AGENT
John P. Clay and Hervey B. Elkins, United States Army, assignors to the United States of America as represented by the Secretary of War
No Drawing. Original application November 7, 1944, Serial No. 562,328. Divided and this application August 22, 1951, Serial No. 247,187
2 Claims. (Cl. 252—305)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A plastic chemical smoke producing filling for munitions consisting, by weight, essentially of a mixture of from about 50% to about 75% red phosphorus, from about 2% to about 6% isobutylmethacrylate polymers and a hydrocarbon solvent selected from the group consisting of gasoline and xylene.

2,658,875
NICKEL CATALYST AND PREPARATION THEREOF
George Cornelis Adriaan Schuit and Jan Jacob Bernard van Eijk van Voorthuysen, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application March 19, 1951, Serial No. 217,404
Claims priority, application Netherlands March 27, 1950
4 Claims. (Cl. 252—452)

1. A process for the production of a nickel containing catalyst which comprises precipitating nickel hydroxide and hydrous silica, the molecu-

lar ratio of the amounts of silica to nickel applied being at least 1:1, treating the precipitate with water under pressure at a temperature above 100° C. until at least half of the nickel is converted to nickel montmorillonite, and then subjecting the product to a reduction treatment at a temperature of at least 425° C. until at least half but not all of the nickel of the nickel montmorillonite is reduced to metallic nickel.

2,658,876

DIAZO THIOETHERS AS BLOWING AGENTS IN PRODUCTION OF SPONGE RUBBER AND THE LIKE

William B. Reynolds, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application May 20, 1948, Serial No. 28,280
21 Claims. (Cl. 260—2.5)

1. In the preparation of a blown rubber product wherein there is admixed with the material from which the product is made a blowing agent which is decomposed in said material during the preparation of the product to cause an internal blowing effect to aid in the formation of the product, the steps which comprise incorporating 0.5 to 10 per cent of a diazo thioether blowing agent in said material, said agent having the general formula R—N=N—S—R', wherein R is an aromatic radical and R' is a member of the group consisting of aromatic, cycloalkyl and aliphatic radicals and then causing the decomposition of said agent.

2,658,877

SELF-EXTINGUISHING ALKENYLBENZENE COPOLYMER COMPOSITION

Robert R. Dreisbach and George B. Sterling, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application February 9, 1952, Serial No. 270,894
4 Claims. (Cl. 260—2.5)

1. A composition of matter consisting essentially of (A) from 95 to 97 per cent by weight of a copolymer of from 75 to 90 per cent styrene and correspondingly from 25 to 10 per cent α-methylstyrene and (B) from 5 to 3 per cent by weight of 1,2,3,4-tetrabromobutane.

3. A self-extinguishing expanded cellular foam whose composition is that claimed in claim 1.

2,658,878

STRUCTURAL BOARD FROM WOOD WASTE, EXTRACTED FLOUR OF SOYA BEANS AND MELAMINE-UREA FORMALDEHYDE RESIN

Joseph N. Sears, Sacramento, Calif., assignor to L. J. Carr & Co., Sacramento, Calif., a partnership

No Drawing. Application October 10, 1949, Serial No. 120,603
3 Claims. (Cl. 260—6)

1. A high density, dry-thermo pressed structural board including, as constituents, a wood-waste milled to predetermined particle size, a primary binder comprising a protein, and a substantially lesser amount of a resin binder; the wood-waste being present in a percentage greater than 80%, the protein binder being extracted flour of soya beans present in a percentage less than 10%, and the resin binder being melamine-urea formaldehyde present within a range of 1½% and 1%.

2,658,879

ACRYLONITRILE POLYMERS DISSOLVED IN SOLVENT MIXTURES COMPRISING NITROMETHANE AND WATER

Ralph Gardner Beaman, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 19, 1948, Serial No. 45,197
20 Claims. (Cl. 260—29.6)

1. As a new composition of matter, a polymer of acrylonitrile containing in the polymer molecule at least 85% by weight of acrylonitrile dissolved in a solvent comprising a mixture of nitromethane and water.

2,658,880

COMPOSITION FOR COATING FABRICS

Ralph Landau, Brooklyn, N. Y., assignor to Chempatents, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application April 10, 1950, Serial No. 155,129
9 Claims. (Cl. 260—30.6)

1. A coating composition comprising chlorinated polyethylene having a chlorine content of from 5% to 85%, and present in an amount of approximately 72% by weight, approximately 20% by weight of antimony trioxide, and approximately 8% by weight of a plasticizer.

2,658,881

MOLDABLE MATERIAL COMPRISING ASBESTOS AND A COHYDROLYZATE OF PHENYL SILICON TRIHALIDE AND ETHYL SILICON TRIHALIDE

Alfred Hirsch, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application May 3, 1949, Serial No. 91,223
8 Claims. (Cl. 260—37)

1. A moldable resinous composition containing a partially condensed hydrolyzate of a mixture of 70 to 90 mol per cent of phenyl silicon trichloride and 10 to 30 mol per cent of ethyl silicon trichloride to make 100 mol per cent, and an inorganic filler material selected from the group consisting of asbestos and a mixture of asbestos with magnesium oxide, said filler being present in an amount between 50% to 80% of said composition.

2,658,882

STABILIZATION OF SILICONE RUBBER

Remo R. Maneri, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application October 3, 1952, Serial No. 313,057
13 Claims. (Cl. 260—37)

1. As a composition of matter a heat convertible mixture comprising (*a*) 100 parts by weight of an organopolysiloxane having the general formula

$$R_nSiO_{\frac{4-n}{2}}$$

where R is a monovalent hydrocarbon radical selected from the group consisting of methyl and phenyl radicals, *n* has an average value of 1.95 to 2.05, inclusive, and in said siloxane at least 50 percent of the total number of hydrocarbon radicals being methyl radicals, (*b*) a silica filler, (*c*) vulcanizing agent, and (*d*) at least 0.5 part by weight of a zirconium compound selected from the group consisting of metallic zirconate salts, zirconium silicates, and metal fluorozirconates.

2,658,883

STABILIZATION OF CHLOROSULFONATED POLYMERS

Richard E. Brooks and Malcolm A. Smook, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 1, 1950, Serial No. 159,384
3 Claims. (Cl. 260—45.8)

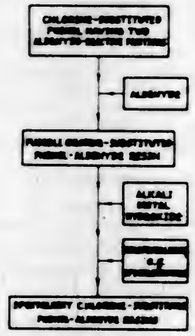
1. A chlorosulfonated polymer of ethylene stabilized against decomposition by the presence of from 0.01% to 10% by weight of phenyl glycidyl ether.

2,658,884

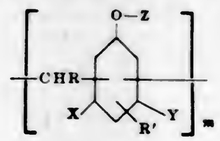
POLYMERIC COMPOSITIONS FROM A CHLOROPHENOL, AN ALDEHYDE, AND A CHLOROEPOXYALKANE

Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware

Application May 27, 1950, Serial No. 164,840
24 Claims. (Cl. 260—53)

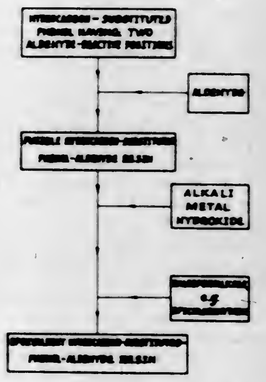


1. A resin comprising a polymeric material being represented at least in part by the formula

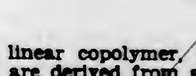


wherein

R is a substituent of the class consisting of hydrogen and alkyl, alkylene, aryl, aralkyl, alkaryl, cycloalkyl and furyl groups;
X and Y are substituents selected from the class consisting of hydrogen, chlorine and alkyl and hydroxyl groups;
R' is a substituent of the class consisting of chlorine, alkyl, aryl, aralkyl, and alkaryl groups;
at least one member of the group consisting of X, Y and R' is chlorine;
m is an integer having a value of at least three; and



Z is a substituent of the class consisting of hydrogen and epoxyalkyl groups, at least one Z per polymer molecule being an epoxyalkyl group and said epoxyalkyl groups having the formula



wherein *n* is an integer having a value no greater than 8, and the unoccupied valences within the bracket of the formula are satisfied by substituents of the class consisting of hydrogen and alkyl groups of no more than 7 carbon atoms, the number of carbon atoms in any epoxyalkyl group totaling no more than 10 carbon atoms.

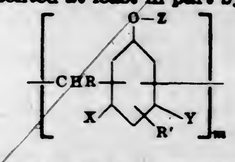
2,658,885

POLYMERIC COMPOSITIONS FROM A HYDROCARBON SUBSTITUTED PHENOL, AN ALDEHYDE, AND A CHLOROEPOXYALKANE

Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware

Application May 27, 1950, Serial No. 164,843
21 Claims. (Cl. 260—53)

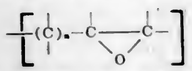
1. A soluble linear copolymer, the monomer units of which are derived from aldehydes and hydrocarbon-substituted phenols in the molar ratio of 50–80 mols aldehyde to 100 mols phenol, being represented at least in part by the formula



wherein

R is a substituent of the class consisting of hydrogen and alkyl, alkylene, aryl, aralkyl, alkaryl, cycloalkyl and furyl groups;
X and Y are substituents selected from the class consisting of hydrogen and alkyl and hydroxyl groups;
R is a hydrocarbon group of the class consisting of alkyl, aralkyl, alkaryl and cycloaliphatic groups;
m is an integer having a value of at least three; and

Z is a substituent of the class consisting of hydrogen and epoxyalkyl groups, at least one Z per polymer molecule being an epoxyalkyl group and said epoxyalkyl groups having the formula



wherein n is an integer having a value no greater than 8, and the unoccupied valences within the bracket of the formula are satisfied by substituents of the class consisting of hydrogen and alkyl groups of no more than 7 carbon atoms, the number of carbon atoms in any epoxyalkyl group totaling no more than 10 carbon atoms.

2,658,886

PRODUCTION OF POLYURETHANES BY A CONTINUOUS PROCESS

Jack Swerdloff, Bloomfield, and Samuel B. McFarlane, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application October 6, 1951, Serial No. 250,187

12 Claims. (Cl. 260—77.5)

1. Process for the production of polyurethanes, which comprises continuously introducing into a reaction zone an organic solvent solution of at least one bis-chloroformate free from reactive groups other than the chloroformate groups, an aqueous solution of a polyamine free from reactive groups other than the amino groups and an alkaline agent, effecting a polymerization reaction in said zone by continuously and strongly agitating the mixture therein, and continuously withdrawing a slurry of polyurethane polymer from said reaction zone at a volumetric rate equal to the volumetric rate at which the solutions are introduced therein, the said solutions being passed through said reaction zone at a rate such that the reactants remain in said zone for a period of less than about 10 minutes and the degree of stirring and the period of time the reactants remain in said reaction zone being sufficient to cause a substantially complete polymerization during the passage of the reactants through said zone.

2,658,887

PROCESS FOR FORMING UREA COMPLEXES

George B. Arnold, Glenham, and James K. Truitt and Howard V. Hess, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application February 11, 1950, Serial No. 143,838.

4 Claims. (Cl. 260—96.5)

1. In the formation of urea complexes by contact of a hydrocarbon mixture containing complex-forming constituents with urea in a medium possessing low solubility in said hydrocarbon mixture, the improvement which comprises effecting said contact at a temperature below 150° F. in the presence of a complex consisting of urea and an aliphatic hydrocarbon containing a straight chain of at least six carbon atoms, and being of different composition than the complex-forming constituents present in said hydrocarbon mixture, said complex being obtained from a source external to said urea-hydrocarbon mixture.

2,658,888

HETEROCYCLIC MONOAZODYESTUFFS

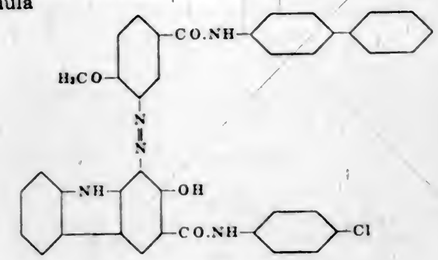
Ernst Fischer, Offenbach (Main), Germany, assignor to Farbwerke Hoechst A. G., vormals Meister Lucius und Brüning, Frankfurt am Main Hochst, Germany, a company of Germany

No Drawing. Application July 28, 1951, Serial No. 239,177

Claims priority, application Germany August 3, 1950

5 Claims. (Cl. 260—164)

4. The monoazodyestuff of the following formula



2,658,889

SUBSTITUTED PHENYLAZOMALONONITRILES

Moses Wolf Goldberg, Upper Montclair, and Albert Israel Rachlin, Maywood, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J. a corporation of New Jersey

No Drawing. Application August 22, 1950 Serial No. 180,888

7 Claims. (Cl. 260—193)

1. A p-substituted phenylazomalononitrile wherein the p-substituent is selected from the group consisting of lower alkoxy, lower alkenoxy and lower carboxylic acid acylamido radicals.

2,658,890

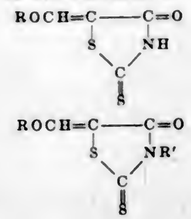
5-ALKOXYMETHYLENE RHODANINES

Willard J. Croxall, Elkhart, Ind., and Chien-Pen Lo, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

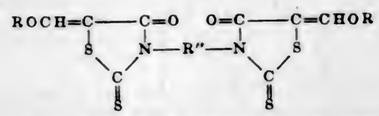
No Drawing. Application April 13, 1951, Serial No. 220,993

17 Claims. (Cl. 260—240)

9. As new chemical compounds, 5-alkoxymethylene rhodanines from the class consisting of compounds of the structures



and



wherein R is an alkyl group of not over nine carbon atoms, R′ is a hydrocarbon group of not over 10 carbon atoms, and R″ is an alkylene group of not over six carbon atoms.

2,658,891

PREPARATION OF MELAMINE AND/OR GUANIDINE

Johnstone S. Mackay, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 6, 1950, Serial No. 142,705

15 Claims. (Cl. 260—249.7)

1. The method comprising heating a reaction mass consisting essentially of calcium cyanamide, ammonia and carbon dioxide at a temperature of at least about 65° C. and a pressure of at least 450 p. s. i. to produce a reaction mass containing at least one member of the group consisting of a guanidine salt and melamine.

2,658,892

PREPARATION OF MELAMINE FROM BIURET

Joseph H. Paden, Stamford, and Johnstone S. Mackay, Old Greenwich, Conn., assignors to American Cyanamid Company, New York N. Y., a corporation of Maine

No Drawing. Application July 28, 1951, Serial No. 239,182

2 Claims. (Cl. 260—249.7)

1. The process of preparing melamine from biuret which consists of heating biuret at a temperature in the range of 300–350° C. in a closed vessel under a pressure of at least 100 lbs. per sq. inch, until melamine is formed and recovering the so-formed melamine.

2,658,893

PREPARATION OF HALODIAMINOTRIAZINES

John J. Roemer, Stamford, and Donald W. Kaiser, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 16, 1950 Serial No. 185,338

10 Claims. (Cl. 260—249.8)

1. The reaction that consists in subjecting a member of the group consisting of dicyanoguanidine, alkyl substituted dicyanoguanidines, cycloalkyl substituted dicyanoguanidines, aralkyl-hydrocarbon substituted dicyanoguanidines, and metal salts thereof to the action of a hydrogen halide, the mole ratio of hydrogen halide to the said dicyanoguanidine (free basis) being at least 1.1, provided that when using an aqueous solvent for the reaction, the temperature is within the range of about 0°–40° C., whereby the corresponding halodiamono-s-triazine is formed, and separating the thus-formed triazine.

2,658,894

FORMOGUANAMINES AND THEIR PREPARATION

Donald W. Kaiser, Old Greenwich, and John J. Roemer, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 16, 1950, Serial No. 185,340

4 Claims. (Cl. 260—249.9)

1. The method of preparing a formoguanamine that comprises heating a mixture consisting of a halo-diamino-s-triazine and hydriodic acid at a temperature in the range 70°–120° C., the mole ratio of acid:triazine reactant being at least 1:1.

2,658,895

2-ALKYLPHENYL-3,4,5,6-TETRAHYDRO-PYRIMIDINES

Seaver A. Ballard and Richard R. Whetstone, Orinda, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application December 26, 1950, Serial No. 202,824

5 Claims. (Cl. 260—251)

1. A compound of the group consisting of tetrahydropyrimidines and acid salts thereof, which tetrahydropyrimidines are members of the group consisting of the 3,4,5,6-tetrahydropyrimidines and 4,4,6-trimethyl-3,4,5,6-tetrahydropyrimidines substituted in the 2-position by an alkyl phenyl radical of the group consisting of the para-tertiary butyl phenyl, para-octyl phenyl, and 3,5-ditertiary butyl phenyl radicals.

2,658,896

REDUCTIVE PROCESS FOR PREPARING PTEROYL-GLUTAMIC ACID

Hans Kirchensteiner, Basel, Heinrich Klaeui, Riehen, near Basel, and Herbert Lindlar, Basel, Switzerland, assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application February 28, 1948, Serial No. 12,147

1 Claim. (Cl. 260—251.5)

A method of preparing pteroylglutamic acid which comprises reacting 2-amino-4-hydroxy-6-pteridyl aldehyde with paraminobenzoylglutamic acid in the presence of hydrogen and a hydrogenating catalyst.

2,658,897

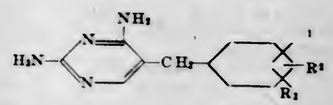
2,4-DIAMINO-5-BENZYL PYRIMIDINES

George H. Hitchings, Tuckahoe, and Elvira A. Falco, New Rochelle, N. Y., assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York

No Drawing. Application June 27, 1951, Serial No. 233,951

6 Claims. (Cl. 260—256.4)

1. A compound of the formula



wherein R^1 is a radical selected from the class consisting of the lower alkoxy radicals and the phenyl radical, R^2 is a radical selected from the class consisting of the lower alkoxy radicals and hydrogen and R^3 is selected from the class consisting of hydrogen and, when R^1 is a lower alkoxy radical, of chlorine, bromine and the nitro groups.

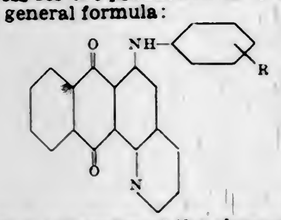
2,658,898

ANTHRAQUINONE DYESTUFFS

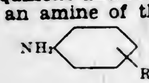
John R. Adams, Jr., Summit, and Victor S. Salvin, Irvington, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application October 19, 1951, Serial No. 252,211
6 Claims. (Cl. 260—272)

1. Process for the production of dyestuff of the following general formula:



wherein R is a member of the class consisting of hydrogen, lower alkyl, lower alkoxy, hydroxy lower alkyl, cyano, hydroxy, halogen, carboxy, lower carbalkoxy, lower fatty acylamino, lower dialkylamino and aryl hydrocarbon groups, which comprises vatting 1-hydroxy-3,4(N)-pyridino-anthraquinone and reacting said vatted compound with an amine of the formula



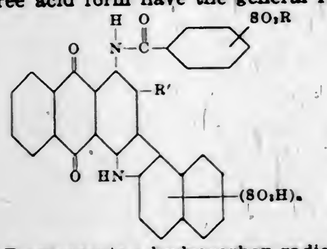
2,658,899

SULFONATED ANTHRAQUINONE NAPHTHOCARBAZOLE DYESTUFFS AND PROCESS FOR PREPARING THEM

James Ogilvie, Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application June 7, 1951, Serial No. 230,439
14 Claims. (Cl. 260—316)

1. As new compositions of matter, dyestuffs of the anthraquinone naphthocarbazole series which in the free acid form have the general formula



wherein R represents a hydrocarbon radical containing from 1 to 12 carbon atoms inclusive selected from the group consisting of saturated aliphatic, cycloaliphatic, aromatic and hydroaromatic radicals; R′ represents a member selected from the group consisting of hydrogen, methyl, bromine and SO_3H; and n represents a positive integer.

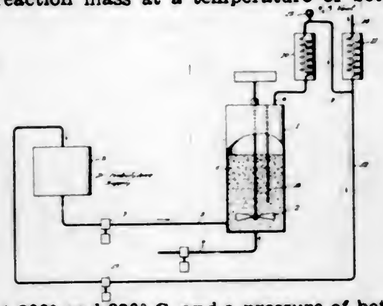
2,658,900

SULFURIZATION OF DI-ISOBUTYLENE

Donald R. Stevens, Wilkinsburg, and Samuel C. Camp, Gibsonia, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application February 15, 1951, Serial No. 211,078
6 Claims. (Cl. 260—327)

1. In a process for sulfurizing di-isobutylene by reacting di-isobutylene with molten sulfur, the improvement which comprises charging di-isobutylene beneath the surface of a liquid reaction mass comprising molten sulfur while maintaining the reaction mass at a temperature of between



about 200° and 230° C. and a pressure of between about 25 and 120 pounds per square inch, and while removing hydrogen sulfide formed in the resulting reaction from contact with the reaction mass substantially as rapidly as formed.

2,658,901

PINYL THIOPHENE

George C. Johnson, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application March 19, 1948, Serial No. 15,969
4 Claims. (Cl. 260—329)

1. The method for producing condensation products from terpenes and an alkylatable thiophene, said products containing one thiophene ring for each terpene molecule, which comprises reacting a terpene and an alkylatable thiophene having at least one unsubstituted nuclear alpha position in the presence of a liquid condensation catalyst consisting essentially of 85 per cent phosphoric acid, maintaining the temperature of said reaction at not greater than about 120° C., and separating a condensation product containing about one thiophene radical for each terpene radical.

2,658,902

THIOPHENE POLYMERS

George C. Johnson, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Original application May 3, 1947, Serial No. 745,725, now Patent No. 2,560,956, dated July 17, 1951. Divided and this application December 10, 1948, Serial No. 64,697
8 Claims. (Cl. 260—329)

1. A method for obtaining new thiophene and alkyl thiophene polymers, which comprises contacting a compound selected from the group consisting of thiophene and monoalkyl thiophene, as the sole reactant, with a solid silica-alumina catalyst, at a temperature between about 20° C. and about 200° C. and for a sufficient length of time to permit polymerization to take place.

2,658,903

PREPARATION OF THIOPHENE AND ALKYLATED THIOPHENES

Benjamin F. Tullar, East Greenbush, and Rolland F. Feldkamp, Troy, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 9, 1951, Serial No. 214,846
5 Claims. (Cl. 260—329)

1. In the process for preparing a thiophene compound selected from the class consisting of thiophene, 3-lower-alkylated thiophenes and 3,4-di-lower-alkylated thiophenes by heating a salt of a succinic acid compound selected from the class consisting of succinic acid, alpha-lower-alkylated succinic acids and alpha,alpha′-di-lower-alkylated succinic acids with a sulfide of phosphorus and recovering the vaporized thiophene compound, the improvement which comprises conducting said heating step while said salt and said sulfide are dispersed in an organic liquid inert to the reaction conditions and boiling above about 225° C.

2,658,904

HALOTHENOYLGLYCINES

William Galler, Valley Stream, N. Y., assignor to American Cystoscope Makers, Inc., New York, N. Y., a corporation of New York

No Drawing. Application March 22, 1950, Serial No. 151,319
12 Claims. (Cl. 260—332.2)

1. A halothenoylglycine of the formula:



in which Y is a member selected from the class consisting of hydrogen, identical halogens and the monovalent groups:

$$-CONHCH_2COOM$$

in which M is a member selected from the class consisting of hydrogen, alkali metals, the ammonium group, alkyl ammonium groups and alkonolammonium groups; at least one Y being a halogen and at least another Y being said monovalent group.

2,658,905

2-(N-ARYLETHYL-ALKYLAMINOMETHYL)-FURANES

Karl Hoffmann, Binningen, and Max Spillmann, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application March 17, 1952, Serial No. 277,064
Claims priority, application Switzerland March 22, 1951
5 Claims. (Cl. 260—340.5)

1. A member selected from the group consisting of 2-(N-arylethyl-alkylaminomethyl)-furanes of the formula

$$\text{Aryl}-CH_2CH_2-N(\text{lower alkyl})-R$$

and their acid addition salts, wherein aryl is a radical selected from the group consisting of lower alkoxyphenyl and lower alkylenedioxyphenyl, and R is a radical selected from the group consisting of tetrahydrofuryl-(2)-methyl and furyl-(2)-methyl.

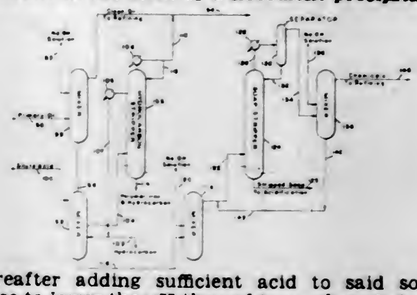
2,658,906

REMOVAL OF IRON CONTAMINANTS FROM HYDROCARBON SYNTHESIS PRODUCTS

Benjamin S. Pace, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application July 29, 1949, Serial No. 107,544
5 Claims. (Cl. 260—419)

1. In a process for the purification of raw primary hydrocarbon synthesis oil contaminated with a metal which is in at least a partially dissolved state and the basic derivatives of which are substantially insoluble in said oil, the steps which comprise bringing the pH of said primary oil to a value of at least about 10, separating the remaining neutralized oil phase from the resulting soap phase which contains the metal contaminant in the form of a flocculent precipitate,



thereafter adding sufficient acid to said soap phase to lower the pH thereof to a value of about 7 thereby causing said precipitate to dissolve, extracting the resulting solution with a selective solvent for said dissolved contaminant, and withdrawing said soap phase free from said contaminant.

2,658,907

REFINING FATTY OILS

George H. Palmer, Fanwood, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application April 12, 1950, Serial No. 155,489
5 Claims. (Cl. 260—428.5)

1. In the refining of a fatty oil by a series of at least two paracritical fractionations with a low boiling solvent having a critical temperature not substantially higher than 450° F., each of said fractionations being carried out in a vertically extended fractionation zone with an extract phase outlet at the upper end, raffinate phase outlet and solvent inlet near the lower end, and a charge oil inlet intermediate said ends, the improvement which includes the steps of: charging said fatty oil and a solvent comprised principally of said low boiling solvent to a first vertically extended fractionation zone and regulating the conditions of temperature and pressure therein to form a primary extract phase and a primary raffinate phase; separately withdrawing said extract and raffinate phases from said extract and raffinate phase outlets respectively and charging to a second vertically extended fractionation zone a charge derived from one of said phases; countercurrently contacting said charge with said low boiling solvent in said second zone and regulating the conditions of temperature and pressure therein to fractionate said charge into a secondary extract phase and a secondary raffinate phase; collecting a portion of said upflowing extract phase from said second fractionation zone at a point substantially above the charge oil inlet; heating said withdrawn extract phase material to evaporate at least part of the solvent content thereof and to produce a reflux material substantially heavier than said withdrawn extract phase; returning said reflux material to said second fractionation zone at a point above its charge oil inlet; flowing extract phase upwardly to a region of higher temperature above said sidestream withdrawal and said reflux return; withdrawing a final secondary extract phase from above said region; recovering a product from a part of said final secondary extract phase, and diverting another part to the lower portion of said first fractionation zone to serve therein as solvent.

2,658,908

PRODUCTION OF HYDROLYZABLE SILOXANES

Siegfried Nitzsche and Ewald Pirson, Burghausen, Upper Bavaria, Germany, assignors, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany

No Drawing. Application June 21, 1951, Serial No. 232,874

Claims priority, application Germany July 27, 1950

6 Claims. (Cl. 260—448.2)

1. The method for the production of siloxanes which contain substituents of the group consisting of alkoxy, aryloxy and acyloxy which comprises maintaining (1) a siloxane of the average general formula

$$R_mH_nSiO_{\frac{4-m-n}{2}}$$

in which R represents hydrocarbon radicals free of aliphatic unsaturation, m has a value of from 1 to 2, inclusive, and n has a positive value up to and including 1, and (2) a reactant of the group consisting of alcohols, phenols and carboxy acids in contact with an ansolvo acid, whereby a substituent of the group consisting of alkoxy, aryloxy and acyloxy is substituted for the hydrogen of said siloxane with the liberation of free hydrogen.

2,658,909

PROCESS FOR SEPARATION AND PURIFICATION OF ALKYL PHOSPHORIC ACIDS

Howard W. Crandall, Berkeley, Calif., and Donald C. Stewart, Park Forest, Ill., assignors to the United States of America as represented by the United States Atomic Energy Commission

No Drawing. Application September 11, 1951, Serial No. 246,156

8 Claims. (Cl. 260—461)

1. In a process for separating and purifying the mono- and di-alkyl form's of a phosphoric acid wherein the alkyl substituent radical contains less than nine carbon atoms, the steps comprising equilibrating such phosphoric acids with a first phase exhibiting aqueous characteristics and composed of a material selected from the group consisting of water in the case of all such acids having alkyl radicals smaller than octyl and diethylene glycol in the case of octyl phosphoric acid and with a second phase composed of materials selected from the group consisting of amyl alcohol, dibutyl carbitol, diisopropyl ether, dibutyl ether, diethyl ether and methyl isobutyl ketone, whereby the mono-alkyl form of such acid preferentially enters said first phase and the di-alkyl form preferentially enters said second phase, separating said phases, and washing the separated phases with the solvent of the other phase to remove minor amounts of the secondary component thereby purifying the primary constituent extracted therein.

2,658,910

PROCESS FOR PREPARING 1,2,3,4-TETRAHYDROPHENANTHRENES

William S. Johnson, Madison, Wis., and Daniel L. Turner, Philadelphia, Pa., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

No Drawing. Application December 15, 1950, Serial No. 201,056

6 Claims. (Cl. 260—473)

1. The process for preparing 1-lower-alkyl-2-carbo - lower - alkoxy - 4 - keto - 7 - XO - 1,2,3,4-tetrahydrophenanthrene which comprises treating in the cold the acid halide of beta-(carbo - lower - alkoxy) - gamma - (6 - XO - 2 - naphthyl)-gamma-lower-alkylbutyric acid with a Friedel-Crafts type of catalyst, where X is a hydrocarbon group selected from the class consisting of lower alkyl groups and benzyl and phenyl groups.

2,658,911

1,1,2-TRIMETHYL-PROPEN-2-YL 3-OXOBUTANOATE AND ITS PREPARATION

Walter Kimel, Highland Park, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application June 10, 1952, Serial No. 292,730

The portion of the term of the patent subsequent to February 10, 1970, has been disclaimed

2 Claims. (Cl. 260—483)

1. The compound 1,1,2-trimethyl-propen-2-yl 3-oxobutanoate.

2,658,912

ALPHA-METHYL GLUTAMIC ACID AND SALTS AND PROCESS FOR PREPARATION

Karl Pfister III, Westfield, N. J., and William J. Leanza, Staten Island, N. Y., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application December 28, 1951, Serial No. 263,968

6 Claims. (Cl. 260—534)

1. A compound from the group consisting of α-methylglutamic acid and salts thereof produced by reaction with a base.

2,658,913

PROCESS FOR THE PRODUCTION OF NAPHTHALENE AND RELATED DERIVATIVES, AND DERIVATIVES HIGHLY CHLORINATED, PARTIALLY HYDROGENATED TRIPHENYLENE

Julius Hyman and Milton Silverman, Denver, Colo., assignors, by mesne assignments, to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application April 18, 1951, Serial No. 221,736

16 Claims. (Cl. 260—543)

1. A process for the production of a naphthalene derivative which comprises reacting the adduct of naphthalene and hexachlorocyclopentadiene, in which two molecules of hexachlorocyclopentadiene are fused with a single ring of naphthalene, with a reagent which introduces a substituent from the group consisting of nitro, bromine and chlorine into a benzenoid ring, and then heating said substituted adduct to a minimum temperature of 150° C. to produce hexachlorocyclopentadiene and a substituted naphthalene in which all substitutents up to a maximum of four are confined to the single ring and there is a substituent in the beta position.

2,658,914

PROCESS FOR MAKING ANHYDRIDES

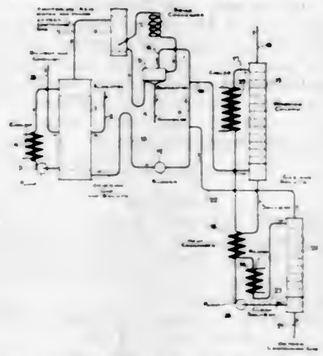
Lino Rigon, Melle, France, assignor to Les Usines de Melle (Societe Anonyme), Saint-Leger-les-Melle, France, a corporation of France

Application June 28, 1950, Serial No. 170,714

Claims priority, application France July 15, 1949

11 Claims. (Cl. 260—546)

1. A process which comprises, continuously introducing a gas containing molecular oxygen, and aliphatic aldehyde having from 2 to 4 carbon atoms, into a liquid bath containing aldehyde to be oxidized, the corresponding acid, the anhydride corresponding to said acid, metallic salts capable of acting as aldehyde oxidation catalyst and at least 75% of the total weight of said liquid bath of an inert diluent selected from the group consisting of an ester and an anhydride having a boiling point above 200° C. and mixtures of said ester and anhydride, which diluent is insoluble in and does not dissolve water, is miscible with the anhydride to be produced as well as with the



corresponding acid and when mixed with such acid and anhydride, such mixture is capable of dissolving the catalytic salts in the proportion required for catalysis of the reaction between the aldehyde and oxygen, and oxidizing such aldehyde at a temperature of about 40–100° C. to produce the corresponding anhydride, the partial pressure of said oxygen being lower than 76 mm. of mercury, said gas being introduced at a rate such that the residual gas removes from the bath substantially all of the anhydride, acid and water formed, while the diluent remains in the bath.

2,658,915

N-ALKYL-N-VINYL CYANAMIDE PREPARATION

Donald W. Kaiser, Old Greenwich, and Ingenuin Hechenbleikner, Norwalk, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 24, 1951, Serial No. 253,001

4 Claims. (Cl. 260—551)

1. The method of preparing an N-vinyl-N-alkyl cyanamide that comprises subjecting a member of the group consisting of the N-bromoethyl-N-lower alkyl cyanamides and the N-chloroethyl-N-lower alkyl cyanamides to the action of an alcoholate of the formula

$$MO—C(\text{lower alkyl})_3$$

in which M is alkali metal.

2,658,916

PREPARATION AND PURIFICATION OF HIGHER ALKYL ARYL SULFONAMIDES AND THEIR SALTS

Irving Joseph Krems, Bronx, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application June 10, 1950, Serial No. 167,489

5 Claims. (Cl. 260—556)

1. A process for the preparation of a higher alkyl nuclear substituted monocyclic aryl hydrocarbon sulfonamide compound which comprises condensing a higher alkyl nuclear substituted aryl sulfonyl halide with a member of the group consisting of ammonia and lower alkyl primary amines to form a crude reaction product comprising a sulfonamide compound from the group consisting of the corresponding higher alkyl substituted aryl primary sulfonamides and N-lower alkyl sulfonamides admixed with undesirable impurities, treating said reaction mixture in an aqueous medium with an excess of a base selected from the group consisting of alkali metal and alkaline earth metal bases releasing hydroxyl ions in water, the amount of said excess base being sufficient to form an aqueous alkaline reaction mixture having a pH above 11 and precipitating substantially all of said sulfonamide compound as the corresponding metal salt from the reaction mixture substantially free from said impurities.

2,658,917

PREPARATION OF GUANIDINE THIOCYANATE

Nat H. Marsh, Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 14, 1949, Serial No. 127,255

1 Claim. (Cl. 260—564)

The method of preparing guanidine thiocyanate which includes the steps of heating carbon oxysulfide and ammonia in a closed reaction zone at a temperature within the range 240° to 260° C. and at a pressure within the range 1000 to 2000 p. s. i.

2,658,918

CHLORODIKETONE

Earl T. McBee and Jack S. Newcomer, West Lafayette, Ind., assignors to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana

No Drawing. Application October 1, 1948, Serial No. 52,410

4 Claims. (Cl. 260—586)

1. A pentachlorodiketone having the empirical formula $C_7Cl_5O_2H$, which is a yellow crystalline solid possessing, in the pure state, a melting point of approximately 96 degrees centigrade, that is identical with the product obtained by heating concentrated sulfuric acid at a temperature between approximately 70 and approximately 150 degrees centigrade with trichlorovinyl pentachlorocyclopentadiene, prepared by the condensation of hexachlorocyclopentadiene with trichloroethylene in the presence of aluminum chloride at approximately 110 degrees centigrade.

2. A process for the production of the pentachlorodiketone defined in claim 1, which comprises heating trichlorovinylpentachlorocyclopentadiene, prepared by the condensation of hexachlorocyclopentadiene with trichloroethylene in the presence of aluminum chloride at a temperature of approximately 110 degrees centigrade, with sulfuric acid, and subsequently recovering the pentachlorodiketone.

2,658,919

PRODUCTION OF KETONES

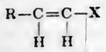
Louis Schmerling, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 16, 1948, Serial No. 55,013

10 Claims. (Cl. 260—586)

1. A process for producing a ketone which comprises heating at a temperature of from

about 150° to about 350° C. a reaction mixture consisting essentially of water, a weakly basic substance and an unsaturated halide having the structure



wherein R represents a member of the group consisting of alkyl, cycloalkyl, and aryl radicals, and X represents a halogen atom.

2,658,920

PROCESS FOR THE MANUFACTURE OF BENZIL

David X. Klein, Upper Montclair, Theodore A. Girard, Clifton, and Hilding R. Johnson, Glen Rock, N. J., assignors to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 24, 1951, Serial No. 243,598

10 Claims. (Cl. 260—590)

1. The process of producing benzil from benzoin comprising the steps of adding together benzoin, acetic acid, ammonium nitrate, cupric acetate, water, and a soluble inorganic alkaline-nitrite, and then reacting the mixture while maintaining the mixture within a temperature range of 85°–95° C., thereby converting benzoin to benzil.

2,658,921

PROCESS FOR MANUFACTURING BUTYRALDEHYDE

Louis Alhéritière, Beau-Soleil, Melle, France, assignor to Les Usines de Melle (Societe Anonyme), Saint-Leger-les-Melle, France, a corporation of France

No Drawing. Application August 10, 1949, Serial No. 109,610

Claims priority, application France August 20, 1948

9 Claims. (Cl. 260—601)

1. A process which comprises heating a mixture of crotonaldehyde, butyl alcohol and hydrogen at a temperature above the boiling point of the mixture thereof in the presence of a copper base catalyst, said butyl alcohol being present in the proportion of at least 1 mole of butyl alcohol to 1 mole of crotonaldehyde and converting the crotonaldehyde into butyraldehyde.

2,658,922

PROCESS FOR PREPARING DIMETHOXY-DECADIENES

Richard S. Urban, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application October 10, 1951, Serial No. 250,815

5 Claims. (Cl. 260—615)

1. In the process for preparing a mixture of isomeric dimethoxydecadienes, all of which have the formula $CH_3O—C_{10}H_{16}—OCH_3$, wherein a mixture of isomeric methoxychloropentenes, all of which have the formula $CH_3O—C_5H_8—Cl$, is dissolved in a solvent and reacted with finely divided iron at a temperature from 10° C. to the refluxing temperature of the reaction mixture, said iron being in such a finely divided form as to pass through a No. 140 U. S. Standard sieve and being present in an amount equal to at least one-half mol per mol of said methoxychloropentenes, the improvement which consists of adding to the reaction mixture an activator from the class consisting of the metals below iron in the electromotive series and salts of said metals, said activator being added in such an amount as to provide 1–15%, based on the weight of said iron, of the metal in said activator.

2,658,923

STABILIZED OXO ALCOHOLS

Wilbur F. Fischer, Roselle Park, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 21, 1950, Serial No. 169,539

2 Claims. (Cl. 260—632.5)

1. A composition of matter comprising a mixture of alcohols prepared by the Oxo process, said mixture of alcohols comprising essentially as the major constituents 4,5-dimethyl hexanol, 3,5-dimethyl hexanol, 3,4-dimethyl hexanol, 3-methyl heptanol, 5-methyl heptanol, and a minor amount of diphenylol propane.

2,658,924

CATALYTIC HYDRATION OF OLEFINS

Sigmund J. Lukasiewicz, William I. Denton, and Charles J. Plank, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application July 5, 1950, Serial No. 172,188

1 Claim. (Cl. 260—641)

In a process for converting olefins of three to five carbon atoms into the corresponding alcohols by contacting such olefins in the presence of a molar excess of water with a catalyst at a pressure of about 375 to about 6000 pounds per square inch and a temperature of about 250° F. to about 700° F., the improvement which comprises conducting said contacting with a catalyst consisting substantially of porous alumina on the surfaces of which silica has been uniformly precipitated to provide surfaces predominating in silica, said catalyst containing about 10 to about 25 weight per cent silica and the remainder consisting essentially of alumina.

2,658,925

HIGHER ALKYLPHENYL NITROGEN COMPOUNDS

Moses Cenker, Wyandotte, and William K. Langdon, Grosse Ile, Mich., assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan

No Drawing. Application March 2, 1950, Serial No. 147,335

2 Claims. (Cl. 260—645)

1. The method of making higher alkylnitrobenzene compounds, which comprises intimately contacting an alkylbenzene hydrocarbon whose alkyl group contains 11–14 carbon atoms with a mixture of sulfuric acid of at least 95% strength and nitric acid of at least 70% strength, said acids being present in the proportion of 2.2–3.5 mols of H_2SO_4 per mol of HNO_3.

2,658,926

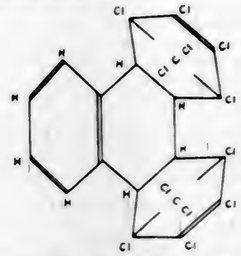
CHLORINATED POLYCYCLIC COMPOUNDS

Julius Hyman and Abe A. Danish, Denver, Colo., assignors, by mesne assignments, to Shell Development Company, Emeryville, Calif., a corporation of Delaware

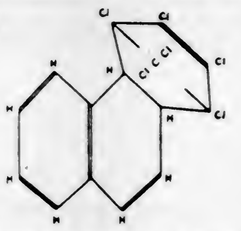
No Drawing. Application August 21, 1948, Serial No. 45,575

10 Claims. (Cl. 260—649)

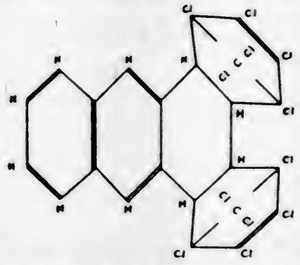
1. A Diels-Alder adduct representing at least one mole of hexachlorocyclopentadiene, but not over two moles, reacted with one mole of a member of the group consisting of naphthalene and anthracene, the said adducts being selected from the group consisting of (1) the compound represented by the formula:



and whose empirical formula is $C_{20}H_8Cl_{12}$, (2) the compound represented by the formula:



and whose empirical formula is $C_{15}H_8Cl_8$, (3) the compound represented by the formula:



and whose empirical formula is $C_{24}H_{10}Cl_{12}$, and mixtures of (1) and (2).

5. The process of forming a Diels-Alder synthesis product involving direct attachment of an aromatic ring which acts as a dienophile, which comprises reacting hexachlorocyclopentadiene with a member of the group consisting of naphthalene and anthracene, by heating said reactants at a temperature from about 50° C. to about 200° C. for a period of about 10 to 300 hours.

2,658,927

FLUORINATION OF CHLORINE CONTAINING DERIVATIVES OF PARAFFIN HYDROCARBONS

Walter Kwasnik, Leverkusen-Bayerwerk, Germany, assignor to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany

No Drawing. Application February 20, 1952, Serial No. 272,710

Claims priority, application Germany March 8, 1951

1 Claim. (Cl. 260—653)

In the fluorination of chlorine containing derivatives of paraffin hydrocarbons in the presence of an antimony halide by means of hydrogen fluoride containing water, the step which comprises performing the fluorination in the presence of an amount of thionyl chloride at least chemically equivalent to the amount of water contained in the hydrogen fluoride.

2,658,928

METHOD OF MAKING FLUOROCARBON CHLORIDES AND BROMIDES BY THERMAL CHLORINATION AND BROMINATION OF FLUOROCARBON HYDRIDES

Joseph H. Simons, Thomas J. Brice and Wilbur H. Pearlson, State College, Pa., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application March 31, 1947, Serial No. 738,504

9 Claims. (Cl. 260—653)

4. A thermal replacement method of chlorination and bromination of compounds of the class consisting of saturated fluorocarbon monohydrides and dihydrides and partially chlorinated and brominated derivatives thereof, wherein the molecule contains at least one replaceable hydrogen atom and the number of fluorine atoms exceeds the number of carbon atoms with at least one fluorine atom bonded to each carbon atom, including the steps of heating a gaseous mixture of a compound of the defined class and a halogen of the class consisting of chlorine and bromine, at a high temperature sufficient to cause thermal replacement of hydrogen by said halogen but insufficient to cause substantial pyrolysis, by passing the gaseous mixture through a heated tube maintained at a temperature of the order of 500–600° C., and recovering as a major product a halogenated reaction product having the same number of carbon atoms wherein hydrogen has been replaced by halogen.

2,658,929

1,1,6,6-TETRACHLORO-1,5-HEXADIENE

Elbert C. Ladd, Passaic, and Herbert Sargent, Glen Rock, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application August 27, 1949, Serial No. 112,832

1 Claim. (Cl. 260—654)

A compound of the formula

$$Cl_2C=CH—CH_2—CH_2—CH=CCl_2$$

2,658,930

PRODUCTION OF POLYHALOALKANES

Ralph B. Thompson, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application March 22, 1949, Serial No. 82,909

8 Claims. (Cl. 260—658)

1. A process which comprises reacting a monoolefinic hydrocarbon and a carbon tetrahalide in the presence of finely divided iron, water, and a gas-containing uncombined oxygen at a temperature from about 0° to about 100° C. to form a polyhaloalkane of higher molecular weight than said carbon tetrahalide.

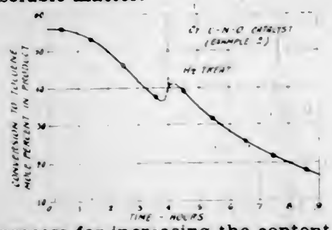
2,658,931

REFORMING CATALYST AND METHOD FOR PREPARING THE SAME

Leonard C. Drake, Wenonah, and Robert L. Smith, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application June 12, 1952, Serial No. 293,132
11 Claims. (Cl. 260—668)

6. A reforming catalyst consisting essentially of a major proportion of chromium and minor proportions of carbon, nitrogen and oxygen combined in the form which results upon thermal decomposition of an alkali metal chromicyanide in an oxygen-free atmosphere and extraction of the product of decomposition with water until free of soluble matter.



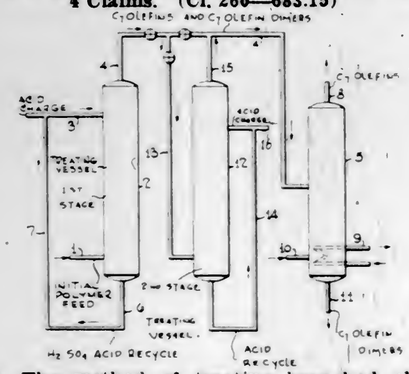
9. A process for increasing the content of aromatics in a hydrocarbon mixture, said process comprising contacting said hydrocarbon mixture with the catalyst of claim 6 under reforming conditions.

2,658,932

TREATMENT OF COPOLYMER OLEFINS FOR OXONATION

Charles A. Cohen, Roselle Park, and Clifford W. Muessig, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 26, 1951, Serial No. 228,508
4 Claims. (Cl. 260—683.15)



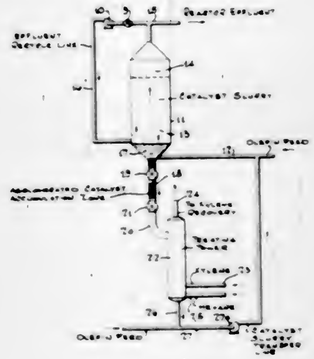
1. The method of treating branched olefin copolymers of propenes and butenes, said copolymers having at least 7 carbon atoms per molecule, which comprises contacting said copolymers with an aqueous solution of 60% to 70% H_2SO_4 at 50° to 100° F. to convert less than 50 volume per cent of the copolymers to higher polymers, separating the treated copolymers with said higher polymers from the aqueous acid solution, further treating the mixture of copolymers and higher polymers with an aqueous solution of 70% to 75% sulfuric acid to obtain further dimerization while still maintaining less than 50 volume per cent of the copolymers unreacted, and separating the treated copolymers with the dimerized copolymers from the aqueous acid solution.

2,658,933

SLURRY POLYMERIZATION PROCESS

Walter G. May, Roselle, and George L. Matheson, Summit, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application August 17, 1951, Serial No. 242,208
11 Claims. (Cl. 260—683.15)



1. In the process of polymerizing olefins to produce low boiling polymers in which a solid, finely divided phosphoric acid catalyst is maintained as an agitated suspension in a fluid hydrocarbon phase comprising said olefins and in which at least a portion of said catalyst agglomerates by the binding action of high molecular weight materials adsorbed thereon, the improvement which comprises removing said agglomerated catalyst from said suspension, washing it with a liquid solvent whereby it is deglomerated and returning the deglomerated catalyst to said suspension, said solvent having good solvent properties for said high molecular weight binding materials.

ELECTRICAL

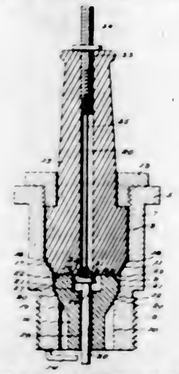
2,658,934

SPARK PLUG

Lloyd McKinsey Field, New London, Ohio, Floyde Josephine Field Karcher, Pueblo, Colo., executrix of said Lloyd McKinsey Field, deceased, assignor, by mesne assignments, to Andrew R. Cochrane, trustee, Pittsburgh, Pa.

Application May 25, 1951, Serial No. 228,282
4 Claims. (Cl. 123—169)

1. A spark plug comprising a shell having grounding means, an insulator divided into an upper section and a lower section, said insulator sections having abutting ends within said shell, the inner end of at least one of said insulator sections having an internal recess, said upper insulator section having a fluid port extending to said recess, said lower insulator section having a central port extending from said recess to the lower end of said lower section, the inner periphery of the zone of contact of said abutting insulator sections being subjected to gas pressure entering said recess through said lower port during engine operation, gas-conducting means extending to the outer periphery of said zone of contact and open toward the lower end of the plug for subjecting said outer periphery to the same gas pressure as said inner periphery, means fixedly mounting said insulator sections in said shell, said mounting means including inclined contacting surfaces between said upper insulator section and said shell, said contacting surfaces



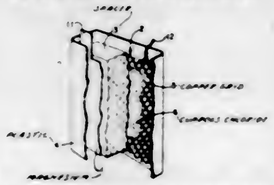
being above the aforesaid zone of contact between the insulator sections, a central positive electrode section loosely reciprocable in said lower port and having a valve head in the aforesaid recess to close said upper port when raised, and means for conducting current to said central electrode section.

2,658,935

CUPROUS CHLORIDE ELECTRODE

Melvin F. Chubb, Joplin, Mo., assignor to the United States of America as represented by the Secretary of the Army

Application January 3, 1951, Serial No. 204,134
10 Claims. (Cl. 136—100)



6. A porous cuprous chloride electrode for primary cells comprising a grid supporting a porous spongy mass of cuprous chloride, said mass containing a high polymer of high dielectric constant in amounts sufficient to insure the adhesion of the cuprous chloride to the supporting grid.

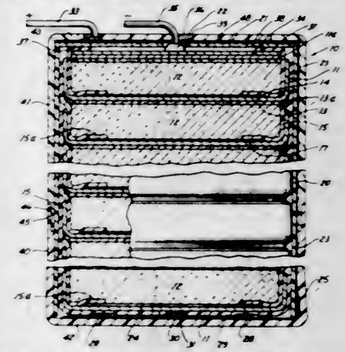
2,658,936

DRY CELL BATTERY

Arthur F. Rock, Lakewood, Ohio, assignor to General Dry Batteries, Inc., Lakewood, Ohio, a corporation of Ohio

Application January 19, 1949, Serial No. 71,625
11 Claims. (Cl. 136—111)

1. A dry cell battery unit comprising a plurality of dry cells arranged in series stacked relation, each cell comprising a shallow zinc cup having a bottom and side walls, the height of the side walls being less than the distance between the bottoms of adjacent cups, whereby the side walls of adjacent cups do not overlap, a mass of mix containing electrolyte within the cup, a thin positive electrode of substantially uniform thickness substantially coextensive with the interior of the bottom of the cup, the mass of mix contained in each cup being in contact with the positive electrode within the cup, a sheet of separately formed plastic insulating material overlapping the edges of the positive electrode and extending directly between the mass of mix within the cup and the side walls of the cup and insulating the mass of



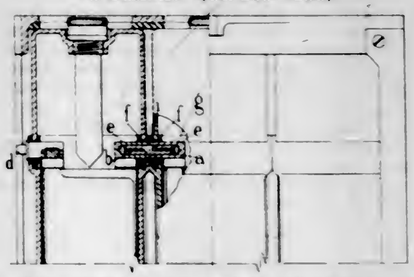
mix from the cup except for the electrical connection provided by the positive electrode, there being a layer of battery paper disposed between the mix of one cup and the outside bottom wall of the next adjacent cup, the sheet of plastic insulating material projecting beyond the edges of the cup within which it extends and along the outside of the side walls of the next adjacent cup and thereby insulating the stacked zinc cups from each other.

2,658,937

ELECTRICAL STORAGE BATTERY

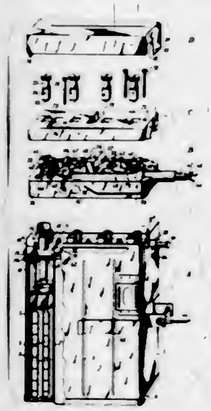
Edward Spence Chapman, Dagenham Dock, England, assignor to The Chloride Electrical Storage Company Limited, Clifton Junction, England, a British company

Application July 16, 1951, Serial No. 236,967
Claims priority, application Great Britain September 25, 1950
2 Claims. (Cl. 136—134)



1. An electrical storage battery cell comprising a plastic case, open top pockets provided on the outsides of two opposite walls of said cell, plates with plate bridges in said cell, a hollow socket like external electrical connector for each plate bridge, a split ended pin which fits in said socket and partly projects therefrom, a plastic moulding around a part of each connector, each moulding comprising a part which enters a pocket so that the connector with moulding can be held in position by the pocket with the outer end portion of the connector free of the moulding, the inner end portion being burnt on to a plate bridge, and the moulding being cemented to the plastic case, and a cover for the case which also fits in the moulding of each connector.

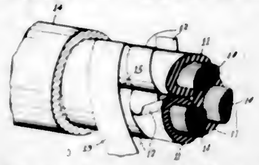
2,658,938
ACCUMULATOR BATTERY
André Albert Robillard, Douai, France, assignor to Compagnie Auxiliaire des Mines, Douai, France, a French body corporate
Application July 21, 1952, Serial No. 300,087
Claims priority, application France
October 5, 1951
7 Claims. (Cl. 136—178)



1. In a portable accumulator battery, more particularly for use in mines, comprising a trough in an insulating material divided into several electrolyte compartments and a cover for this trough, in combination, for each electrolyte compartment: a filler tube in said cover, a plug that is completely fluid-tight for this filler tube, a gas outlet tube in said cover for the escape of gases to the atmosphere during the charging of the battery, in this outlet tube a valve that is fluid-tight for ensuring a complete hermetic sealing of said gas outlet tube during the periods of utilization of the battery i. e. the discharge of the battery, and a single control device for ensuring simultaneously the necessary switching for the charging or the discharging of the battery and the respective opening or closing of said valve for each of the electrolyte compartments, said single control device comprising a single rotative shaft, said rotative shaft including cams for actuating in the direction for closing the valves of said gas outlet tubes for the escape to the atmosphere of the gases from the electrolyte compartments, elastic devices being provided for actuating these valves in the direction of opening, and said shaft further including the mobile part of a switch device for the charging and the discharging of the battery.

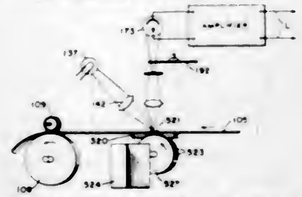
2 658,939
POWER CABLE CONTAINING FLUID UNDER PRESSURE
Eugene Willis Greenfield and Amos Clarendon Connell, Hastings on Hudson, N. Y., assignors to Anaconda Wire and Cable Company, a corporation of Delaware
Application July 29, 1948, Serial No. 41,215
10 Claims. (Cl. 174—24)

1. Power cable comprising a conductor that is fluid-permeable throughout its length, a layer of solid fluid-impermeable plastic insulation surrounding the conductor, a fluid impermeable sheath surrounding the insulation, the sheath being spaced from the insulation to provide a fluid passage throughout the length of the cable, said fluid passage being in fluid-transfer communication with the interior of said fluid-permeable conductor, fluid under superatmospheric pressure within the conductor and exerting such pressure on the inner surface of the insulation



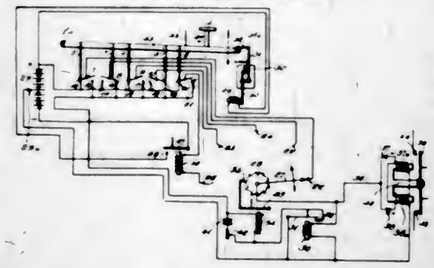
adjacent the conductor, and fluid under essentially the same superatmospheric pressure in said fluid passage and exerting on the outer surface of the insulation substantially the same pressure as is exerted on the inner surface thereof.

2,658,940
OPTICAL SCANNING DEVICE
Raleigh J. Wise, Arlington, and Garvice H. Ridings, Summit, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Original application October 26, 1945, Serial No. 624,786. Divided and this application January 26, 1951, Serial No. 208,035
11 Claims. (Cl. 178—17)



4. A code tape transmitter having means for scanning a coded tape and generating signal impulses, means for driving the tape during the scanning operation, a transmission line for said impulses, a rotary member provided with code areas, said member being normally inoperative in relation to said transmission line, and means for automatically causing said coded member to send a standby signal to the line when the tape runs out.

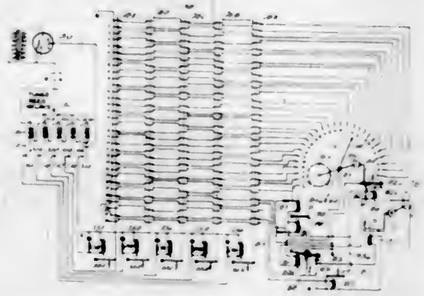
2,658,941
PRINTING TELEGRAPH SYSTEM
James D. Durkee, Fairlington, Va., assignor, by direct and mesne assignments, to Dualex Corporation, a corporation of Delaware
Original application January 23, 1950, Serial No. 139,977, now Patent No. 2,613,267, dated October 7, 1952. Divided and this application May 28, 1951, Serial No. 228,658
9 Claims. (Cl. 178—17)



1. A printing telegraph system comprising a transmission system for selectively establishing

permutations and combinations of positive and negative current pulses, a keyboard selectively operative to establish permutations and combinations of positive and negative current pulses representative of different signal characters, a stepping relay including an actuating winding, a switch arm and a multiplicity of contactors controlled by said switch arm, an armature controlled by said winding, said switch arm being angularly shiftable step-by-step under control of said armature over said multiplicity of contactors associated therewith, and a polarized relay circuit responsive to said positive and negative current pulses selectively controllable through the circuits established by the movement of said angularly shiftable arm for controlling the selective transmission of signal impulses.

2,658,942
PRINTING TELEGRAPH SYSTEM
James D. Durkee, Fairlington, Va., assignor, by direct and mesne assignments, to Dualex Corporation, a corporation of Delaware
Application August 11, 1949, Serial No. 109,648
12 Claims. (Cl. 178—23)

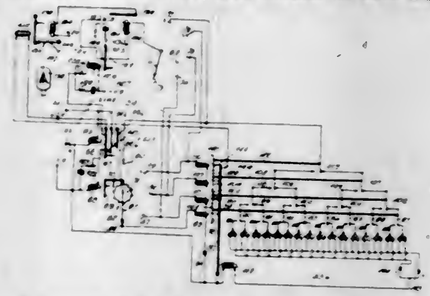


1. In a printing telegraph receiving system, means for receiving permutations and combinations of simultaneously applied multiple coded signal impulses, a ratchet controlled step-by-step selector system operative over a range of approximately 180°, a printing device including a type wheel wherein a complete alphabet appears on each 180° of the type wheel operatively controlled by said selector system, and electric circuit means for simultaneously applying said permutations and combinations of simultaneously applied coded signal impulses to said ratchet controlled step-by-step selector system for controlling said printing device by the conjoint action of simultaneously applied impulses.

2,658,943
PRINTING TELEGRAPH SYSTEM
James D. Durkee, Fairlington, Va., assignor, by direct and mesne assignments, to Dualex Corporation, a corporation of Delaware
Original application January 23, 1950, Serial No. 139,977, now Patent No. 2,613,267, dated October 7, 1952. Divided and this application May 28, 1951, Serial No. 228,657
14 Claims. (Cl. 178—23)

1. In a printing telegraph system, a plurality of pairs of printer operating solenoids each including differentially polarized individual solenoids, a polarized pyramid circuit, selective conditioning means for controlling said polarized pyramid circuit for selectively exciting the individual printer solenoids of said pairs of printer operating solenoids by positive or negative current pulses, a signal input circuit, a stepping

ated condition and in definitely timed response to a timing signal, and means for continuing the switch including an arm operative over a multiplicity of contactors, control relays individual to the said contactors, and means in said signal



input circuit for selectively operating said stepping switch relative to signal pulses for selectively exciting certain of said relays, and means operated by said relays for controlling said polarized pyramid circuit.

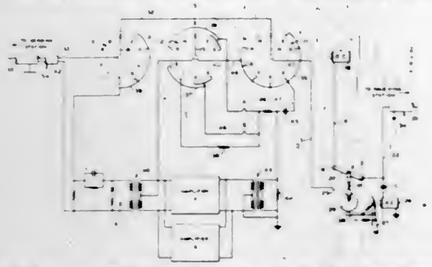
2,658,944
TELEGRAPH SIGNAL REGENERATOR APPARATUS
Hendrik C. A. van Duuren, Wassenaar, Netherlands, assignor to Staatsbedrijf der Posterijen, Telegrafie en Telefonie, The Hague, Netherlands
Application July 26, 1949, Serial No. 106,847
Claims priority, application Great Britain
October 6, 1948
16 Claims. (Cl. 178—70)

1. Electrical signal generator apparatus for reforming mutilated signals to an initial given value comprising impulse generating means for generating an outgoing signal impulse responsive to receipt of a corresponding incoming signal impulse, a first timing means operative to introduce a period of delay prior to generation of each outgoing impulse by said generating means, a second timing means operative to maintain said signal generating means operative for an additional period following termination of receipt of said incoming signal, and control means for adjusting the operating periods of said first and second timing means to vary the values of said initial delay period and said additional period to thereby provide an outgoing signal having said desired given value in response to receipt of a mutilated signal.

2,658,945
REPEATER SWITCHING SYSTEM
Fay B. Bramhall, Ridgewood, Earl L. Newell and Philip H. Wells, Chatham, N. J., and Clifford H. Cramer, Great Neck, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application May 31, 1951, Serial No. 229,191
15 Claims. (Cl. 178—70)

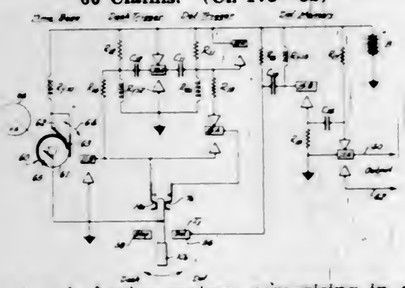
1. A submersible repeater for incorporation in a submarine cable circuit, comprising an elec-

tronic amplifier, a first switching means associated therewith, said first switching means having a plurality of switching positions for selectively providing a plurality of testing, amplifying and operating conditions in said cable circuit, positioning means responsive to positioning pulses received over said cable circuit for operating said first switching means from one to another of said switching positions thereof, second switching means for selectively connecting either



said first switching means or said positioning means into said cable circuit, operating means responsive to a switching signal received over said cable circuit for operating said second switching means, and means for permanently connecting said operating means to said cable circuit, said operating means having a high impedance value with respect to intelligence signals received over said cable circuit and a low impedance value with respect to said switching signal.

2,658,946
CODE KEYING SYSTEM
John Kaye, Banning, Calif.
Application April 16, 1951, Serial No. 221,241
60 Claims. (Cl. 178—82)



1. A code keying system, comprising in combination, output circuit means shiftable between marking and spacing conditions, control means shiftable between idle and actuated conditions, continuously operating timing means acting independently of the condition of the control means to produce a continuous series of periodic and effectively instantaneous timing signals coupling circuit means acting to shift the output circuit means from spacing to marking condition under control of shifting of the control means to actuoutput circuit in marking condition for a predetermined time period after it is so shifted, independently of the instant condition of the control means.

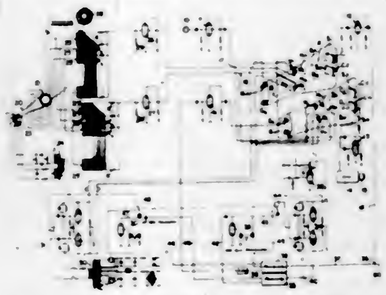
2,658,947
INTERCOMMUNICATION APPARATUS
Arie Liberman, Chicago, Ill.
Application November 25, 1949, Serial No. 129,411
6 Claims. (Cl. 179—1)

1. In an intercommunication system having a plurality of stations and cable means interconnecting said stations to provide for communication therebetween, means in at least one station for selecting other stations, comprising: means for selecting between private and non-private operation of said other stations, including a circuit in said one station having at least one first terminal for private operation, a circuit in said one station having at least one second terminal for non-private operation, a plurality of intermediate terminals each adapted to be connected to at least one of said other sta-



tions and readily removable leads interconnecting each of said intermediate terminals with either said first or said second terminals to determine whether each of said other stations shall be private or non-private with regard to said one station; and a plurality of station selector switches each having at least one contact connected to a portion of said cable means and at least one other contact connected to one of said intermediate terminals, to select the other station with which said one station will communicate.

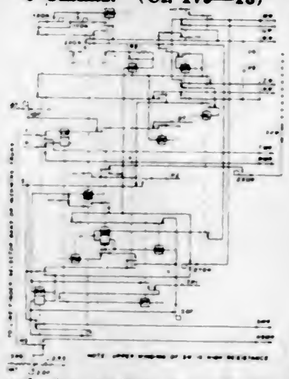
2,658,948
METHOD OF AND APPARATUS FOR TRANSMITTING AUDIO MESSAGES
Kurt Franz Gustav Wiemer, Bad Toelz, Germany
Application November 8, 1951, Serial No. 255,361
26 Claims. (Cl. 179—1.5)



1. A method of transmitting audio messages, comprising the steps of producing a first electron beam, coonverting a sequence of audible signals into electrical signals, modulating said electron beam in accordance with said audible signals, guiding said electron beam for a predetermined period of time first over a first surface having charge storing properties and then for an equal period of time over a second surface having charge storing properties, thereby forming alternatively on said first and said second storing surface charge images of successive portions of said sequence of audible signals, continuing said scanning of said first and said second surface in alternating succession during the entire transmission of said sequence of audible signals, scanning in alternating succession said charge images on said first and said second surface by a second electron beam so as to cause the elements of said charge images on said first and said second surface to produce varying secondary emission currents, modulating a third electron beam by said varying secondary emission currents, scanning in alternating succession a third

and a fourth surface having charge storing properties by said third electron beam in step with the scanning of said first and said second surface by said second electron beam, and then scanning said charge images on said third and said fourth surface by a fourth electron beam in step with the scanning of said first and said second surface by said first electron beam to cause the elements of said last named charge images to produce varying secondary emission currents, and reconverting the electrical signals so derived from said last named charge images into a sequence of audible signals.

2,658,949
TELEPHONE SELECTOR CIRCUIT
William W. Pharis, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application July 3, 1950, Serial No. 171,874
6 Claims. (Cl. 179—18)



1. In a selector switch for use in automatic telephone systems wherein the switch can be operated to off normal levels in a primary direction followed by its operation in a secondary direction to select certain trunks in the selected off normal level or in a secondary direction in a normal level following drop back from a previous operation in a primary direction to a predetermined off-normal level to thereby select other trunks in the normal level, means for transmitting digital impulses to said switch, means responsive to digital impulses comprising a first plurality of impulses for operating said switch in its primary direction to a first predetermined off normal level, means responsive to the advance of said switch to said first predetermined off normal level for causing said switch to select a trunk in said first predetermined off normal level, means responsive to digital impulses comprising a second plurality of impulses for operating said switch in its primary direction to a second predetermined off normal level, means responsive to the advance of said switch to said second predetermined off normal level for causing the release operation of said switch to its normal level, and means for thereafter causing said switch to select a trunk in said normal level.

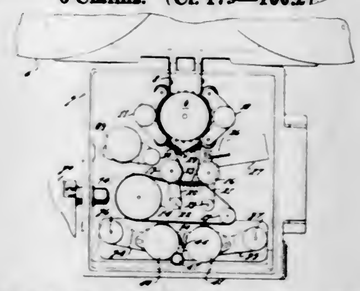
2,658,950
REPRODUCER FOR MAGNETICALLY RECORDED SIGNALS
Arthur E. Canfora, Brooklyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1948, Serial No. 46,948
6 Claims. (Cl. 179—100.2)

1. In a magnetic phonograph for reproducing the signals on a signal-bearing magnetic record, means for moving said record at a substantially constant linear speed along a predetermined path, a signal pick-up magnet having polar extremities movable with respect to each other and mounted adjacent to said path in a position



to be magnetically influenced by the signals upon said moving record, and a vibrator mechanically coupled to said magnet for imparting controlled vibrational movement to said polar extremities of said magnet.

2,658,951
MAGNETIC SOUND SYSTEM
Arthur C. Albee, Hollywood, and Hugh C. Ward, Los Angeles, Calif., assignors to Radio Corporation of America, a corporation of Delaware
Application October 30, 1948, Serial No. 57,434
6 Claims. (Cl. 179—100.2)

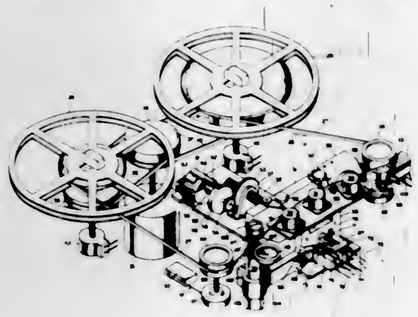


2. A magnetic sound recorder and reproducer drive mechanism comprising sprocket means for advancing film into a loop, a pair of film-pulled rollers in said loop around which said film is advanced by said sprocket means, means for tensioning and damping the portions of said film between said sprocket means and said rollers, said means also applying tension to said film between said rollers, magnetic recording and reproducing heads positioned against said film between and adjacent said rollers, and means connected to at least one of said rollers for stabilizing the rotation of said roller and the motion of said film between said rollers.

2,658,952
MAGNETIC RECORDING AND REPRODUCING DEVICE
Henry James Harsant, Lakewood, and Theodore Frank Deucher, Parma, Ohio, assignors, by mesne assignments, to Clevite Corporation, Cleveland, Ohio, a corporation of Ohio
Application May 10, 1949, Serial No. 92,378
9 Claims. (Cl. 179—100.2)

1. In a device for moving filamentary record material: a supply reel, a takeup reel spaced away from said supply reel with a length of said record material extending between said supply reel and said takeup reel; motor drive means including only a single motor, first electrically energizable passive torque transmitting means connected between said motor drive means and said supply reel for selectively coupling said supply reel to said motor drive means, first electric control means connected to said first torque transmitting means and actuable by an operator for energizing said first torque transmitting means with a fixed

amount of electric current which is invariable throughout the time of said control action controlling the amount of torque transmitted by said first passive torque transmitting means from said motor drive means to said supply reel, second electrically energizable passive torque transmitting means connected between said motor drive means and said takeup reel for selectively coupling said takeup reel to said motor drive



means, second electric control means connected to said second torque transmitting means and actuable by said operator for energizing said second torque transmitting means with a fixed amount of electric current which is invariable throughout the time of said controlled action controlling the amount of torque transmitted by said second passive torque transmitting means from said motor drive means to said takeup reel.

2,658,953

MAGNETIC RECORDING ART

Franz L. Putzrath, Pennsauken, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 4, 1951, Serial No. 224,602
1 Claim. (Cl. 179—100.2)



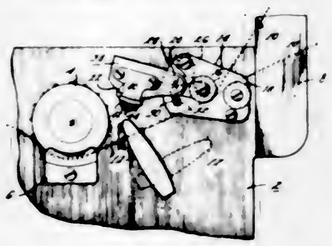
In a magnetic recording system, a magnetic recording head, a source of high frequency bias current, means for connecting said source to said head, and means for successively and increasingly attenuating the bias applied to said head from said source, said last mentioned means including a first load device, a second load device and a third load device, a first and second multi-position switch, said first and second switch being serially connected between said source and said head, said first switch being operable to connect said first load device in shunt with said head, said second switch being operable to connect said second load device in shunt with said head, and a third multi-position switch operable to connect said third load device in shunt with said head, said third load device comprising an exciter lamp, at least one of said switches being further operable to interrupt the circuit between said head and said source.

2,658,954

MOTION-PICTURE FILM HANDLING APPARATUS

Guillermo A. del Valle, Merchantville, and Alan S. Jones, Palmyra, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application June 26, 1951, Serial No. 233,524
7 Claims. (Cl. 179—100.2)



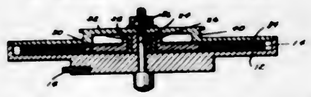
7. In motion picture apparatus of the type adapted for use with film bearing a magnetic sound track and having a lever for controlling the direction of travel of said film, said lever being movable between a "forward" and a "rewind" position an erase head for said sound track, means for mounting said head adjacent to said lever, said mounting means including a mounting bracket and an arm pivotally supported on said bracket, said head being carried by said arm and being movable between an "operate" position and a "non-operate" position, releasable catch means for selectively holding said head in its "operate" position, and guide means mounted on said bracket for guiding said film in a path to be engaged by said head when said head is in its "operate" position, said head and said lever being movable in intersecting, mutually interfering paths whereby said lever cannot be moved from said "forward" position to said "rewind" position until said head has been removed from said "operate" position to said "non-operate" position.

2,658,955

TAPE RECORDER FEED MECHANISM

Robert H. Carson, Arlington, Mass., assignor to the United States of America as represented by the Executive Secretary of the Office of Scientific Research and Development

Application July 18, 1945, Serial No. 605,782
8 Claims. (Cl. 179—100.2)



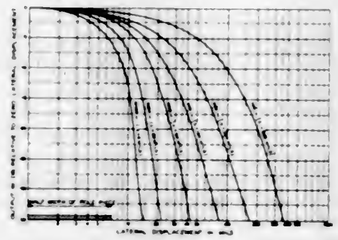
1. Mechanism of the character described comprising a magnetic head, an endless tape associated with the magnetic head, a cylindrical magazine for holding a portion of the tape in a wound state, a conical drum mounted coaxially with said magazine for facilitating removal of the tape from the magazine and passing it to the magnetic head, a resiliently held plunger lying in contact with the tape at its point of contact with the conical drum, driving means located between the magazine and the magnetic head, a channeled guide member for guiding tape from the driving means to the magazine in a substantially stiffened condition, and alarm switch means responsive to any abnormality in the movement of tape about the said magnetic head.

2,658,956

MAGNETIC RECORDING AND REPRODUCING

Semi Joseph Begun, Cleveland Heights, Ohio, assignor, by mesne assignments, to Clevite Corporation, Cleveland, Ohio, a corporation of Ohio

Application April 21, 1947, Serial No. 742,793
1 Claim. (Cl. 179—100.2)



In a magnetic record transducing apparatus: ring-type magnetic recording head means having a pole piece of a given width; a flexible magnetizable record member having an extended permanently magnetizable record surface with a coercive force of 120 oersteds or higher comprised of a dispersion in a binder of finely powdered permanently magnetizable particles in magnetic flux linkage relationship with said recording head means for recording along adjacent closely spaced record traces; electrical circuit means connected to said recording head means and including a source of carrier current oscillations of a given frequency and modulator means for modulating said carrier current oscillations; impelling means for driving said record member past said recording head means at a given rate of speed correlated to the frequency of said carrier current oscillations so that the longest signal wave length recorded on said record member is about 30 mils and the spread of said recorded signal in said record member toward an adjacent record trace is substantially confined to only about three-halves the given width of said pole piece or less.

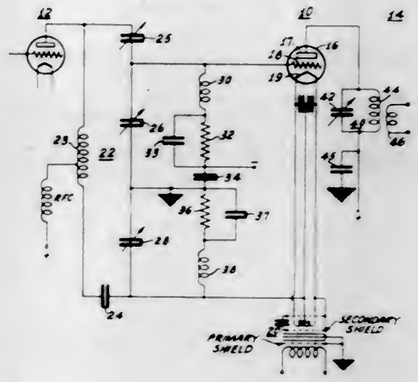
2,658,957

DEGENERATIVELY STABILIZED AMPLIFIER CIRCUIT

George Lindley Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware.

Application March 26, 1949, Serial No. 83,746
9 Claims. (Cl. 179—171)

9. In an amplifier circuit arrangement including a controlled electron path device having at least an electron flow control electrode, an electron emitter electrode and an electron collector electrode, a resonant output circuit connected to said collector electrode, a resonant input circuit comprising a reactive element of given sign, at least another reactive element, a further reactive element of opposite sign and separate means for tuning said input circuit all connected in a single series-circuit relationship, means connecting the first said reactive element for alternating current to said further reactive element, means coupling said control electrode to said other reactive element, means establishing the junction between said other and said further reactive elements directly at a fixed reference voltage level,



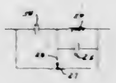
and means connecting said emitter electrode directly to the junction between said alternating current connecting means and said further reactive element.

2,658,958

NEGATIVE FEEDBACK FREQUENCY RESPONSE COMPENSATION AMPLIFIER SYSTEM

Lawrence V. Wells, Charlotte, Mich., assignor to Wilcox-Gay Corporation, Charlotte, Mich., a corporation of Michigan

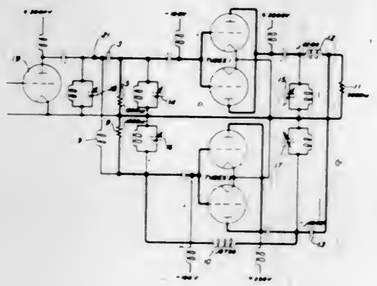
Application July 16, 1949, Serial No. 105,221
3 Claims. (Cl. 179—171)



1. In combination, an amplifier circuit, an input circuit to said amplifier for impressing signals thereon and an output circuit for said amplifier, said amplifier having a frequency response varying as a function of frequency, said frequency response having a portion having a relatively large rate of gain, a portion having a relatively small rate of gain and a portion having a maximum gain, and a negative feedback circuit comprising a series resonant tuned circuit comprising an inductance and capacitance in series connecting the output to the input circuit and having a negative feedback characteristic varying as a function of the frequency of the signal, said series resonant circuit being resonant at a frequency corresponding to said portion of said frequency response having a maximum gain, a capacitance connected across said inductance to form therewith a parallel resonant circuit, said parallel resonant circuit being resonant at a frequency corresponding to said portion of said frequency response having a relatively large rate of gain, and a damping resistor in parallel circuit connection across said parallel resonant circuit, said damping resistor preventing excessive compensation at said parallel resonant

frequency while matching the desired response between the series and parallel resonant frequencies, and a resistor connected in parallel with said series capacitance for limiting the rise of said portion of said low frequency response having a relatively small rate of gain.

2,658,959
HIGH EFFICIENCY RADIO-FREQUENCY POWER AMPLIFIER
William H. Doherty, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 2, 1949, Serial No. 125,025
5 Claims. (Cl. 179—171)



1. In a system for high-efficiency amplification of amplitude-modulated carrier waves of the type in which a pair of amplifiers, each comprising a tube having a grid, cathode and anode, have respective grid-cathode circuits to which said amplitude-modulated waves are applied in like form but with a relative displacement of phase, and respective anode-cathode circuits from which said waves are delivered with a complementary displacement of phase to a common load, in which each of said amplifier has a substantially linear voltage amplification characteristic from zero to normal input carrier levels but exhibits anode voltage saturation from normal to peak input carrier levels and in which said relative displacement of phase is varied with input carrier level from normal to peak levels: an improved arrangement for effecting the aforementioned variation in relative phase displacement consisting of an individual passive phase shifting network, in each said grid-cathode circuit, whose phase shift is a function of its terminating impedance and each of which networks is terminated by the grid-cathode impedance of a respective one of said tubes, and circuit means to change the effective grid-cathode impedance of each said tube progressively under the control of and in response to progressive change in input carrier level beginning at substantially said normal level and progressing to said peak level.

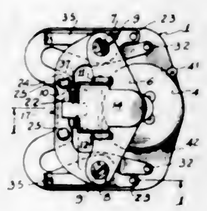
2,658,960
DUST COVER FOR AUTOMATIC TELEPHONE SWITCHES
Luther D. Pearsall, Fayetteville, N. C.
Application June 12, 1950, Serial No. 167,643
1 Claim. (Cl. 179—178)

A dust cover for enclosing the contacts and wipers of an automatic switch in telephone exchanges comprising a manually detachable frictionally retained casing including sides, front, top and bottom, the back of the casing being open to permit the casing to be slidably engaged over the contacts and wipers, the top of the casing being provided with an opening for engagement



with a fixed part of the switch, resilient cups on the bottom of the casing for engagement with parts of the switch, the front and one side wall of the casing being provided with "busy" key and test-jack openings, respectively, a dust wing extending from one edge of each opening to minimize possibility of dust accumulating on the contacts and wipers.

2,658,961
RELAY DEVICE
Clarence E. Fisher, Culver City, Calif.
Application August 19, 1952, Serial No. 305,168
2 Claims. (Cl. 200—1)

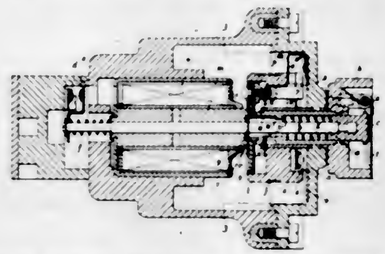


1. In a relay unit comprising a base with a pair of spaced apart upright posts, a plurality of sets of contact members supported by the posts and base and insulated from each other, each set of members comprising a resilient member with a fixed member on each top and bottom side and spaced from each other, all the members having contacts which are in vertical alinement and designed to make contact with one another depending upon the movement of the resilient member of each set, each resilient member having the horizontal surface thereof in the general form of the letter M with its contacts positioned near the meeting portions of the middle legs thereof so as to avoid strong loop vibrations.

2,658,962
ELECTRIC SWITCH
William George Bourne, Acton, London, England, assignor to Rotax Limited, London, England
Application February 6, 1950, Serial No. 142,661
Claims priority, application Great Britain February 7, 1949
3 Claims. (Cl. 200—4)

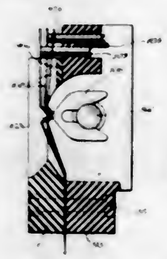
1. An electric switch for the purpose described comprising, in combination, a housing, a first switch member rotatably mounted within the

housing and carrying contact means adapted to co-operate with a plurality of fixed contact means in the housing, a manually operable rotatable member located outside the housing coaxial with the first switch member and operatively connected therewith for rotating the said switch member for selecting a desired firing circuit, spring-loaded locking plunger means mounted for movement parallel with the axis of rotation of the first switch member and extending through openings in said switch member to engage recesses in the housing under spring loading to lock the said switch member against rotation, a second switch member longitudinally slidable coaxially with the rotatable switch member and carrying contact means adapted to co-operate with fixed contact means in the housing for controlling a timing mechanism circuit, a manually operable



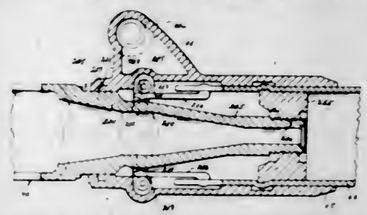
member located in a recess in said manually rotatable member and disposed coaxially therewith for imparting longitudinal displacement to said longitudinally slidable switch member, a solenoid disposed coaxially with respect to the rotatable and slidable switch members, a movable core for said solenoid slidable upon said longitudinally slidable switch member, and an operative connection between said movable core and said locking plunger means for withdrawing the plunger means from locking position when the solenoid is energised under the control of the timing mechanism, whereby operation of the longitudinally slidable switch member after selection of the desired circuit causes the rotatable switch member to be locked against rotation to prevent operation thereof until after the selected firing circuit has been closed.

2,658,963
ROTARY MULTIPLE CONTACT SWITCH
Fred Krahulec, Skokie, Ill., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois
Application March 1, 1949, Serial No. 78,921
19 Claims. (Cl. 200—8)



4. A multiple contact switch, comprising an insulating housing, a shaft supported for rotation in said housing, means defining a series of parallel slots in said housing, said slots defining planes perpendicular to the axis of said shaft, conducting means supported on said shaft for rotation therewith, a plurality of resilient wiper contact arms engageable with said conducting means, each of said contact arms being disposed within one of said slots, and a plurality of selectively adjustable stop means one for each of said contact arms for limiting one extreme of movement of said contact arms in said slot.

2,658,964
BLADE ASSEMBLY FOR DISCONNECT SWITCHES
Gustave E. Heberlein, Bryn Mawr, Pa., assignor, by mesne assignments, to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 26, 1951, Serial No. 238,613
5 Claims. (Cl. 200—48)



1. A switch having a movable contact arm and a frame; said contact arm comprising an angularly movable hinge member mounted on said frame and a blade member mounted on said hinge member for rotation about its longitudinal axis; a current carrying connection between said blade and said hinge member; said current carrying connection comprising a plurality of contact fingers secured to said blade and extending substantially parallel to the axis thereof; and a contact ring on said hinge member in a plane substantially normal to the axis of the blade; the contact fingers engaging said ring; said contact fingers being biased toward said contact ring on said hinge member; means sealing said current carrying connection.

2,658,965
CONNECTOR CLIP
Delbert F. Smith, Shawnee, Okla.
Application December 14, 1950, Serial No. 200,780
2 Claims. (Cl. 200—51.1)



2. A connector clip for clamping substantially cylindrical cables provided with two polarized conductors and further provided with conducting flanges, each of said flanges being connected with one of said polarized conductors, and one of the flanges being provided with a polarity indicating pin, comprising two spring pressed clip members of insulating material, movable around a pivot and pressed towards each other under the spring pressure, each clip member having a contact section, a clamping section and a handle section, the contact section of each clip member consisting of a contact surface extending inwardly from the outer edge of the clip, the contact surfaces on the two clip members being applied against each other by the spring pressure when the clip is in its position of rest in which no object is clamped, the clamping section being formed by transverse

recesses of substantially semi-cylindrical shape in the body of the clip members and arranged between the contact section and the pivot connection between the clip members, said clamping section being substantially adapted to grip the cylindrical cable, a metal lining covering the contact section and the clamping section of each clip member on the surfaces of the clip member turned towards each other, one of the clip members and the metal lining carried by said member being provided with a slot cut through the contact section and through part of the clamping section to admit the polarity indicating pin during the clamping of the cable, each clip member being further provided with a shallow cylindrical groove on the outside leading from a point near the clamping section to a point of the handle section, a conducting member in said shallow groove, permanently connected at its outer end with the metal lining, and connecting wires permanently connected with the other end of the conducting member located in the shallow groove, the correct polarity of the connection between the cable wires and the connection wires being indicated by the entry of the polarity indicating pin into the slot provided in one of the clamping members upon clamping of the cable.

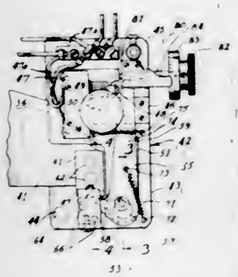
2,658,966

COMPRESSION RIVETER SWITCH

Howard R. Fischer and James A. Roberts, Utica, N. Y., assignors to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey

Original application December 13, 1943, Serial No. 514,068. Divided and this application May 9, 1951, Serial No. 225,442

8 Claims. (Cl. 200—52)



1. A switch for use with the machine of the character having two cooperating jaws and a deflection plate for measuring the separation of the two jaws during operation relative to their normal separation when not in operation, said switch comprising a supporting frame, a microswitch having an operating pin, a trip lever for the switch having a long arm to engage the switch operating pin and having a short arm to be engaged and actuated by a free end of the deflection plate, a fulcrum secured to the frame and serving to support the trip lever for the switch, means confining the free end of the deflection plate to a planar path against the short arm of the trip lever, means for biasing the switch toward the end of the long arm of the lever, a vernier adjustment screw supported on the frame to adjustably position the switch relative to the operating surface of the long arm of the lever, and means for locking the microswitch in selected adjusted position.

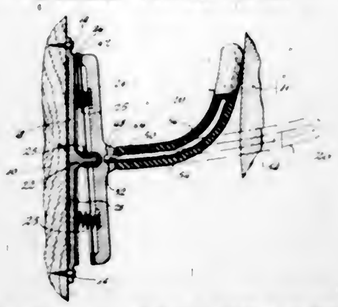
2,658,967

VEHICLE WARNING DEVICE

Arthur L. Matschke, Jr., Chicago, Ill.

Application April 23, 1949, Serial No. 89,317

8 Claims. (Cl. 200—61.41)



1. A switch comprising a base adapted to be fixedly secured to suitable supporting structure, a first contact fixedly carried by said base in insulated relation thereto including an annular contact surface, a flexible body member including an annular portion to provide a second contact corresponding to said fixed contact, means to support said flexible body member from said base with said second contact normally maintained in coaxial spaced relation to said first contact and insulated therefrom, said body member being sufficiently flexible so that parts thereof may be distorted to bring the second contact into engagement with said first contact thereby to close a circuit through said switch, an actuator, and means forming a connection between said actuator and flexible body member for effecting distortion of the latter carrying the annular contact portion thereof into engagement with said first contact in response to the application of a lateral force to said actuator, wherein the means forming a connection between the actuator and the flexible body member comprises a tripod mount connected at its apex to said actuator and at the foot of the legs thereof to the flexible body member adjacent its periphery.

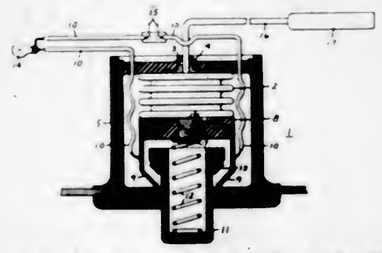
2,658,968

COMBINED ILLUMINATION AND MINIMUM TEMPERATURE CONTROL FOR REFRIGERATORS

Alfred G. Janos, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application December 29, 1950, Serial No. 203,390

3 Claims. (Cl. 200—61.62)



3. In a refrigerator including a refrigerated compartment, and a door for closing said compartment, an electric lamp arranged within said compartment to illuminate and heat said compartment; an electric circuit for said lamp, and a temperature-sensing bulb positioned within said compartment and containing a thermally

expandable fluid, a single electric switch including a housing, a bellows adapted for being connected to said bulb and having one end mounted on said housing, said bellows being further adapted for expanding and contracting in response to temperature changes in said compartment, two metallic terminals supported on the free end of said bellows and adapted for being connected in said circuit, said housing having an opening therein, a plunger movable through said opening, a metallic contact ring mounted on said plunger, a spring biasing said plunger to an outward position at which said contact ring engages said terminals, said switch being adapted for being positioned within a wall of said compartment with said plunger protruding from a surface facing said door when said door is open, said ring being adapted for engaging said terminals to complete said circuit either in response to the opening of said door or in response to a temperature change within said compartment.

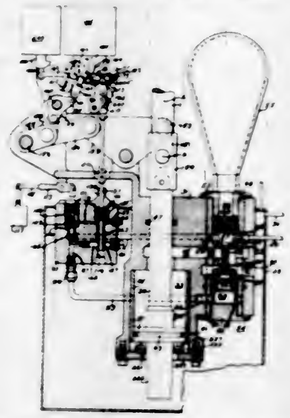
2,658,969

HYDRAULIC CIRCUIT BREAKER ACTUATING MECHANISM

Donald M. Umphrey, Palo Alto, Calif., assignor to Pacific Electric Manufacturing Corp., a corporation of California

Application April 17, 1950, Serial No. 156,409

14 Claims. (Cl. 200—82)



1. Hydraulic circuit-breaker operating mechanism comprising a source of hydraulic pressure, a circuit-breaker operating hydraulic chamber having a moveable wall a conduit leading from said source to said chamber and an additional conduit from said chamber leading to a sump; a hydraulically operated main valve connecting said conduits and operative to connect said chamber to said pressure source or said sump alternatively depending on its position, a hydraulically operated pilot valve connected to said pressure source, said pilot valve including an element having pressure areas on both sides thereof, said areas being unequal and subject to pressure from said source, the pressure on one side thereof tending to open said pilot valve and that on the other to close it, a connection from said pilot valve to said main valve for admitting pressure thereto to operate said main valve and to connect said source to said chamber, connections from each side of said element for relieving pressure thereon to permit pressure on the other side thereof to operate said pilot valve, a normally closed externally operated valve in one of said connections operation of which opens said pilot valve to operate said main valve, a dump valve in the other of said connections, means operative by pressure in said last mentioned connection tending to open said dump valve, mechanical means for holding said dump valve closed against said pressure operative means, and electrically operative means for disabling said mechanical means.

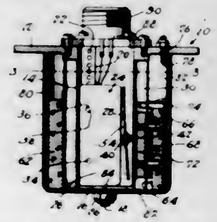
2,658,970

LIQUID LEVEL ACTUATED SWITCH

Earl H. Hurley, Corry, Pa., assignor of ten per cent to Jerrold L. Lansberry, Corry, Pa.

Application October 23, 1951, Serial No. 252,761

3 Claims. (Cl. 200—84)



1. In a liquid level actuated switch an elongated transversely rectangular hollow water tight housing, a magnetically actuated switch mounted within said housing for adjustment vertically thereof, a float having a rectangular opening extending therethrough for receiving said housing, said float being movable vertically on said housing and a magnet carried by the float adjacent the housing for influencing the movements of the magnetically actuated switch.

2,658,971

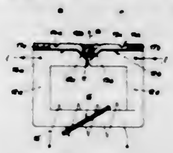
ELECTRIC CONTACT DEVICE

Erwin Wettstein, Zurich, Switzerland, assignor to FKG Fritz Kesselring Geratebau Aktiengesellschaft, Bachtobel-Weinfelden, Switzerland, a Swiss company

Application September 16, 1949, Serial No. 115,983

Claims priority, application Switzerland September 17, 1948

15 Claims. (Cl. 200—87)



1. An electric contact device, comprising electric circuit means for the passage of current to be controlled, said circuit means including a stationary and magnetizable electric contact structure and a magnetizable electric contact member movable relative to said structure, said member having a circuit-closing position in which said member is in electric contact engagement with said structure and a circuit-opening position in which said member is disengaged from said structure, biasing spring means joined with said member and biasing said member to said circuit-opening position, said structure and said member forming together a magnetic system for moving when magnetized said member to said circuit-closing position, said structure having a recess diverging relative to said member and said member being seated in said recess when in said cir-

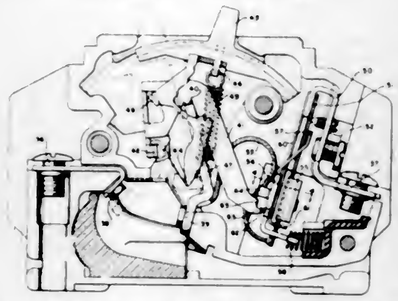
cuit-closing position, said spring means being resilient in at least two mutually intersecting directions and forming the sole mechanical support of said member when said member is in said circuit-opening position so that said member is capable of reflective movements across said recess when moving to said circuit-closing position.

2,658,972
MECHANICAL BI-STABLE DEVICE
Edgar Alan Brown, Aldan, Pa., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application May 23, 1951, Serial No. 227,924
8 Claims. (Cl. 200—87)



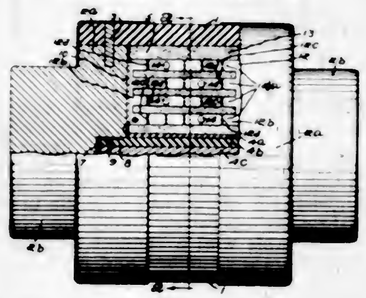
1. A bi-stable device comprising an elongated elastically flexible spring member, means to support said spring member pivotally at one end to accommodate rocking of the adjacent portion of said spring member about said end, means to support the other end of said spring non-pivotally, means mounting one of said supporting means for movement readily toward and from the other supporting means to operatively reciprocate the thereby supported end of the spring member toward and from the other end thereof, limit means cooperating with the movable supporting means and positioned to hold maximum separation of the ends of the spring member to a distance less than the length of the spring member and thereby cause said spring to be bowed away from a line through the ends of the spring member, confining means located on opposite sides of said line and positioned to block, during each movement of said movable supporting means toward the other supporting means, increased bowing and movement away from said line of the portion of said spring member extending from said pivotally supported end to a point in its length a short distance beyond the point farthest displaced from said line and thereby compel a portion of said spring member nearer to the non-pivotally supported end thereof to be increasingly bowed in the opposite direction and shifted progressively across said line by such movement of said movable supporting means until said spring member reaches an unstable substantially sinuous form and position from which it can spontaneously shift further in the same sense and, upon reverse movement of said movable supporting means to the extent permitted by said limit means, spontaneously transform to the form and position reversed, with respect to said line, from the form and position it had prior to such reciprocation of the movable supporting means.

2,658,973
ELECTRIC CIRCUIT BREAKER
Robert T. Casey, Bristol, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application September 29, 1949, Serial No. 118,518
10 Claims. (Cl. 200—88)



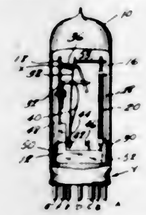
1. In a circuit breaker, a trip member biased to an open circuit position, a latch normally holding said trip member in a closed circuit position, electromagnetic means provided with an armature movable to an attracted position in response to a high current in the circuit breaker for moving said latch to release said trip member, and a connection between said armature and said trip member for holding said trip member until said armature is released for movement upon a decrease in current.

2,658,974
HIGH CURRENT CARRYING CAPACITY CURRENT-LIMITING FUSES
Frederick J. Kozacka, Amesbury, Mass., assignor to The Chase-Shawmut Company, a corporation of Massachusetts
Application November 20, 1952, Serial No. 321,599
14 Claims. (Cl. 200—120)



1. A high current carrying capacity current-limiting fuse comprising a tubular insulating casing, spaced conductive terminal elements arranged on opposite ends of said casing, a pulverulent arc-quenching filler within said casing, a link structure conductively interconnecting said terminal elements and immersed in said filler, said link structure including a plurality of wide ribbon-type link units arranged radially with respect to said casing and radially with respect to said terminal elements and angularly displaced with respect to each other, each of said plurality of link units being subdivided into a plurality of narrower link elements forming elemental current paths in parallel, said link elements having zones of restricted cross-sectional area including zones of minimum cross-sectional area, said zones of minimum cross-sectional area of alternate said link elements being arranged immediately adjacent to the same of said terminal elements.

2,658,975
DELAY SWITCH
Milton Zuckerman, Brooklyn, N. Y.
Application November 29, 1951, Serial No. 258,883
6 Claims. (Cl. 200—122)



1. A delay switch including an envelope, a plurality of conductive lead wires sealed through a wall of said envelope, an insulation base member secured within said envelope, a first bi-metallic element and a second bi-metallic element each having one of their respective extremities secured to said base member, said other extremities extending away therefrom in the same direction and in substantially parallel planes, a heater element adjacent said first bi-metallic element and adapted to warp said first bi-metallic element toward said second bi-metallic element upon passage of a current through said heater element, conductive means between said heater element and a pair of conductive lead wires sealed through said envelope, a switch comprising a first contact point secured to said base member, a second contact resiliently secured to said second bi-metallic element, and a third contact point secured to said base member, said first, second and third contact points each having electrical conductive means therebetween and a conductive lead respectively sealed through said envelope, said second contact being disposed between said first and third contact points, and means secured to said first bi-metallic element in contact with said second bi-metallic element and adapted to move said second contact point out of engagement with said first contact point and into engagement with said third contact point upon passage of a predetermined current through said heater element.

2,658,976
AIR CIRCUIT INTERRUPTER
Peder B. Hoye, Maywood, Ill., assignor to Electrical Engineers Equipment Co., Melrose Park, Ill., a corporation of Illinois
Application December 3, 1948, Serial No. 63,662
45 Claims. (Cl. 200—145)



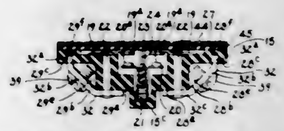
1. In an air circuit interrupter, in combination, an interrupter switch and a disconnect switch in series, said switches each comprising a stationary contact and a movable contact with the stationary contact of the interrupter switch serving as the movable contact of the disconnect switch, a stationary insulating support for supporting the stationary contact of the disconnecting switch, a rotatable insulating support comprising the sole support of said interrupter switch, said rotatable insulating support comprising common operating mechanism for operating mechanism for operating both switches, said rotatable insulating support being adapted in one position to actuate the interrupter switch and in another position to actuate the disconnect switch, and spring means adapted to accelerate movement of said rotatable insulating support toward its second position when the movable contact of the interrupter switch is moved away from its stationary contact.

2,658,977
ELECTRICAL LOAD BREAK SWITCH
Peder B. Hoye, Maywood, Ill., assignor to Electrical Engineers Equipment Co., Melrose Park, Ill., a corporation of Illinois
Application May 8, 1948, Serial No. 25,966
32 Claims. (Cl. 200—146)



14. In a circuit breaker, in combination, a pair of relatively movable main contacts, a movable arcing contact and a relatively stationary arcing contact, spring means adapted to separate the movable arcing contact from the relatively stationary contact, means adapted to prevent separation of the arcing contacts by said spring means, said second-named means including a resetting element and a releasable detent, actuating mechanism for said resetting element and detent, said actuating mechanism being responsive to opening and closing movement of said main contacts, said resetting element being adapted, upon closing of said main contacts, to move the movable arcing contact into engagement with said relatively stationary contact and to energize said spring means and being adapted upon a predetermined separation of said main contact to be disengaged from said movable arcing contact whereby the movable arcing contact is held against movement by said releasable detent, and cam means on said actuating mechanism adapted to release the detent on further predetermined separation of said main contacts.

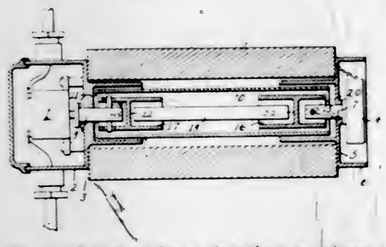
2,658,978
ELECTRIC SWITCH
George J. Meuer, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Original application October 29, 1948, Serial No. 57,378. Divided and this application March 15, 1951, Serial No. 215,808
7 Claims. (Cl. 200—168)



1. As an article of manufacture, a punched and stamped sheet metal wiring terminal member having a perforated flat portion at one end

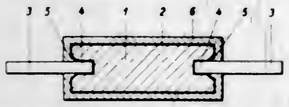
thereof, a second flat portion extending in a given direction from said first portion at an obtuse angle thereto, said second portion having a tapped opening formed therein to accommodate the shank of a binding screw, and a third portion of reduced width extending in a generally similar direction from said second portion in a plane substantially perpendicular to the plane of said first portion, said first portion being adapted for rigid attachment to an insulating base through the medium of a suitable fastening member, and said third portion being adapted to fit rather closely within a suitable recess in the base to anchor that end of said terminal member.

2,658,979
REMOTE CONTROL SWITCH ACTUATING DEVICE
Karl Johan Jungholm, Stockholm, Sweden
Application August 30, 1949, Serial No. 113,056
2 Claims. (Cl. 200—172)



1. In mechanism for actuating a rotary switch member, having a rotatable operating element located at a distance from said switch and capable of being manually actuated for turning said rotary switch off and on, and means for transmitting rotary movement from said operating element to said rotary switch, the improvement residing in that said transmitting means comprises a pair of opposed stud shafts having spaced ends projecting, respectively, from said rotatable operating switch and from said rotary element, a shaft disposed between the ends of said stud shafts, collars respectively fitting and slidable over each end of said shaft and extending over a substantial portion of said shaft, portions of said collars further projecting over a portion, respectively, of said stud shafts, said collar portions fitting over said stud shaft ends loosely to allow wobble, each said collar portion projecting over the stud shafts being formed with elongated slots, and pins extending through said stud shaft ends and in said collar slots and slidable in said slots lengthwise of said collars.

2,658,980
ELECTRIC RESISTANCE
Erich Weides, Langel, near Porz (Rhine), Hellmuth C. Riepka, Porz (Rhine), and Otto Uebelmann, Langel, near Porz (Rhine), Germany
Application March 13, 1951, Serial No. 215,218
Claims priority, application Germany
March 16, 1950
1 Claim. (Cl. 201—63)



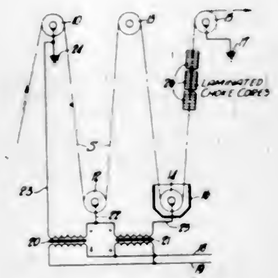
An electrical resistance unit comprising a ceramic carrier body solid in cross section and having a socket at opposite ends thereof, a thin resistance layer covering the outside of said body and the walls of said sockets, current carrying metallic members having portions upset in said sockets respectively thereby to provide rigid connections, and an electrical insulating layer of plastic intimately covering said resistance layer of the body and the ends thereof.

2,658,981
WELDING BERYLLIUM AND BERYLLIUM ALLOYS
David C. Martin, Worthington, Ohio, assignor to the United States of America as represented by the United States Atomic Energy Commission
No Drawing. Application August 8, 1950, Serial No. 178,356
12 Claims. (Cl. 219—10)

1. A process of welding beryllium-base metals comprising welding said metals using a shield gas consisting of from 95 to 99.5% by volume of a noble gas and from 5 to 0.5% by volume of a fluorochlorohydrocarbon selected from the group consisting of fluorochloromethanes and fluorochloroethanes.

9. As a new composition of matter, a shield gas for welding beryllium-base metals consisting of from 95 to 99.5% by volume of a noble gas and from 5 to 0.5% by volume of a fluorochlorohydrocarbon selected from the group consisting of fluorochloromethanes and fluorochloroethanes.

2,658,982
HEATING CIRCUIT AND METHOD
George H. Rendel, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application February 19, 1952, Serial No. 272,472
3 Claims. (Cl. 219—11)



1. In a line for processing metal products in continuous lengths and including a plurality of spaced apart rolls around which a metal product travels, at least three of which rolls are electrically conductive, an electric resistance heating circuit comprising two transformers whose windings are connected in like phase relation, conductors connecting one end of the secondary windings of each of said transformers to one of said electrically conductive rolls which is situated intermediate the other two, and conductors connecting the other ends of the secondary windings repectively to the others of said electrically conductive rolls, said rolls being positioned to wrap the metal product around the electrically conductive intermediate roll through an appreciable arc.

2,658,983
ELECTRIC SOLDERING IRON
Harry W. Talbot, San Francisco, Calif., assignor to Kelso Norman, San Francisco, Calif.
Application May 14, 1951, Serial No. 226,149
5 Claims. (Cl. 219—26)



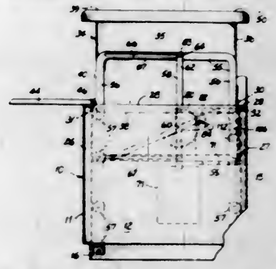
1. In an electric soldering iron having a soldering head with a hollow shank extending therefrom with a hollow handle at its end and electric lead wires extending through the shank into the handle to an insulating terminal plate located therein, said plate being elongated and said handle being open at both ends with said shank extending into one end, the opening in the opposite end being large enough to pass said plate and said plate insertable through said opposite end, and the end of the plate engaging a notch in the adjacent end of the shank to prevent relative twisting movement and a twin bored insulator rod enclosed in said shank with a lead wire in each bore, and the end of said insulator rod adjacent the handle extending beyond the end of said shank and into a notch in said plate with its bore holes directed along opposite sides of the plate respectively and means for securing said handle to said shank, and upon releasing of which said handle may be slid longitudinally along said shank to expose said plate.

2,658,984
OPTICAL RADIATOR
Heinrich Mohn, Hailer, Kreis Gelnhausen, Germany, assignor to Heraeus Quarzschmelze G. m. b. H., Hanau (Main), Germany, a corporation of Germany
Application June 5, 1951, Serial No. 229,930
Claims priority, application Germany
June 23, 1950
12 Claims. (Cl. 219—34)



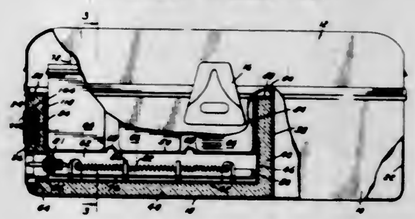
1. A radiator comprising means for emitting radiation, a sheath surrounding said means, said sheath being composed partly of clear, transparent vitreous quartz glass and partly of opaque fused silica, the lines dividing said quartz glass and silica materials extending substantially in longitudinal direction throughout said sheath, said quartz glass and said silica being welded together to form one single unitary sheath.

2,658,985
COOKING STOVE
Earl G. Maxwell, St. Louis, Mo.
Application January 19, 1949, Serial No. 71,719
3 Claims. (Cl. 219—35)



2. In a cooking stove, a rising oven assembly comprising a fixed enclosure formed to provide a top-open oven-receiving chamber, an oven movable vertically into and out of said chamber, means for raising and lowering the oven, means for heating the oven, and control means for regulating the source of oven heat, said control means including a fixed element and a coacting actuating element engageable by said fixed element and adapted to cause energization and de-energization of the oven heating means, one of said elements being carried by the fixed enclosure, the other said element being carried by the oven proper, the location of said elements being such that the actuating element acts to energize the oven heating means only when the oven is in a substantially fully raised position, and further located such that near the start of a descending movement of the oven, the fixed element coacts with the actuating element to assure cessation of oven heat substantially in all oven positions except when fully elevated.

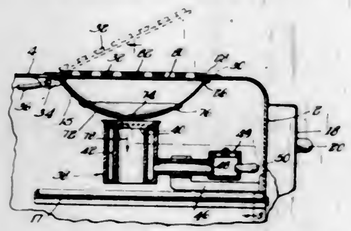
2,658,986
ELECTRICALLY HEATED LUNCH BOX
Ernst H. Gronlund, Algonac, Mich.
Application July 7, 1951, Serial No. 235,644
4 Claims. (Cl. 219—35)



4. In a lunch box including a bottom, oppositely disposed side and front and rear walls; a vertical insulated partition wall spaced from one end of the box and extending between the front and rear walls and forming a compartment in such end; a horizontally disposed bottom plate spaced above the bottom of the box and extending substantially from said end wall to the partition forming an upper and a lower compartment in such end of the box; said end wall of the box partially cut away to provide an opening therethrough into the lower compartment; an electric heating unit removably slidably insertable through said opening and adapted to seat within said lower compartment; an upstanding positioning leg mounted upon one end of the unit

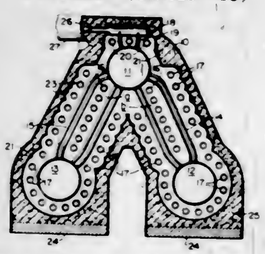
and adapted to abut said end wall of the box to close the opening therethrough and fixedly position said unit within the lower compartment; and means to removably retainingly hold said leg in abutting relationship to said end wall.

2,658,987
COMBINED ELECTRIC AND GAS OPERATED RANGE OR STOVE
Wilbert H. Ogden, Fort Myers, Fla.
Application April 20, 1949, Serial No. 88,567
12 Claims. (Cl. 219—37)



10. A stove comprising an electrical heating unit providing a heating surface for supporting an object to be heated thereby, and a gas burner disposed below said electrical heating unit and adapted to heat objects supported on said electrical heating unit, portions of said electrical heating unit overlying said gas burner, said gas burner having an enlarged central aperture extending therethrough to provide a passage for material falling thereon.

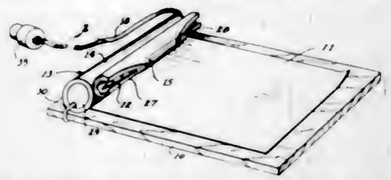
2,658,988
TUBE TYPE BOILER FOR STEAMSHIPS
Raymond M. Clauser and Peter A. Petersen, Fort Worth, Tex.
Application October 26, 1951, Serial No. 253,397
3 Claims. (Cl. 219—38)



1. A steam boiler for steam ships or the like comprising a closed case, a steam drum within the upper portion of said case, at least one lower drum within the lower portion of the said case, tubes connecting said drums, electrical heating elements adjacent said tubes positioned outwardly thereof and inwardly directed with respect thereto, and steam outlet means connected with said upper drum.

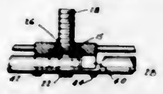
2,658,989
WRITING BOARD LAMP AND PAPER HOLDER
Arthur G. Marschat, Whitestone, N. Y.
Application May 29, 1951, Serial No. 228,799
3 Claims. (Cl. 240—2)

1. A writing board lamp attachment comprising a tube adapted to permit the passage of light through the side thereof, a lamp socket secured to the tube, a lamp bulb in the socket, a second tube attached to the side of the first tube and adapted to receive a pencil and serving as a handle for lifting and lowering the attachment, electric circuit means for supplying electric current to said lamp bulb, spring attaching arms extending respectively from the opposite end of the first tube and having hook formation adapted to extend over the edges of the writing board to hold the attachment against upward displacement therefrom rear leg members projecting re-



spectively from the opposite ends of the first tube and rearwardly of the attaching arms, forward leg members projecting respectively from the first tube and inwardly of the respective and adjacent rear leg members, said forward leg members lying forwardly of the attaching arms and adapted to engage a paper sheet to retain the same in place upon the board as the attachment is lowered forwardly thereunto, said attachment upon being lifted or lowered pivoting on said rear leg members as a pivot.

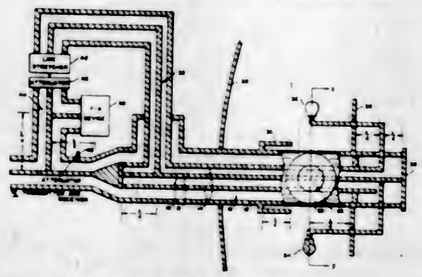
2,658,990
MEANS FOR MOUNTING LAMP SHADES ON LAMP HARPS
Herbert Lagin, New York, N. Y.
Application July 20, 1950, Serial No. 174,987
5 Claims. (Cl. 240—148)



3. In combination, the cross wire of a lamp harp, a lamp shade, a connection for mounting said lamp shade on said cross wire, said connection comprising a first member and a second member, said first member having a stud extending up therefrom, fingers extending out from the first member and curved around the cross wire to swivelly lock said first member on said cross wire, said second member having an opening therethrough, said stud positioned in said opening to mount said second member on said first member, said second member having channels through the sides thereof, said cross wire positioned in said channels to mount said second member on said cross wire, and means to mount said lamp shade on said second member.

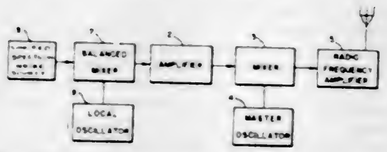
2,658,991
ANTIJAMMING RADAR SYSTEM
Richard S. O'Brien, Tarrytown, and John H. Woodruff, Auburn, N. Y., assignors to United States of America as represented by the Secretary of War
Application May 8, 1946, Serial No. 668,150
5 Claims. (Cl. 250—13)

4. A radar system for transmitting and receiving linearly polarized waves comprising a transmitter, a receiver, a first antenna for receiving and radiating plane polarized waves, means coupling said antenna to said transmitter and receiver, a second linear antenna for receiving radiant energy polarized in a plane perpendicular to the plane of the energy received by said first antenna, means for connecting said second antenna to said receiver and for blocking the output of said transmitter from said second an-



tenna, means for shifting the phase of the signals received by one antenna with respect to the signals received by the other antenna, and means for differentially combining the signals received by said first and second antennas.

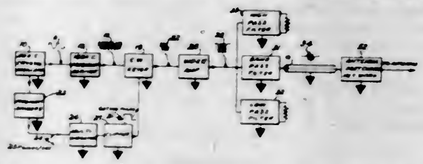
2,658,992
SINGLE SIDE BAND JAMMING SYSTEM
John F. Byrne, Wellesley Hills, Mass., assignor to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,089
1 Claim. (Cl. 250—17)



A jamming transmitter, comprising means for generating a radio frequency voltage; means for generating random noise having a spectrum, the upper end of which has a comparatively low frequency; means for deriving two sidebands from the output of said noise generating means including an oscillator having a given frequency output and a balanced mixer, said given frequency being suppressed thereby; a high frequency band pass amplifier for the output of said sideband deriving means comprising a pass band having a center frequency substantially coincident with said given frequency; means for effecting a modulation of the output of said radio frequency voltage generating means with the high frequency band passed by said amplifier; and a transmitter for the modulated radio frequency voltage including means for selecting a given sideband.

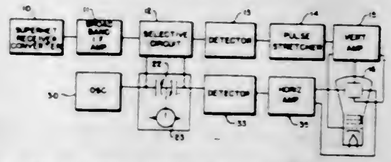
2,658,993
LORAN TRANSMITTER
Stuart W. Seeley, Roslyn Heights, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 10, 1946, Serial No. 682,538
9 Claims. (Cl. 250—17)

1. A radio pulse transmitter comprising means for producing pulses at low power level which recur at the frequency of the carrier wave to be radiated, means comprising a video frequency amplifier for amplifying said pulses and for producing pulses of high power level wherein each pulse consists of rectangular pulses recurring at said carrier wave frequency, said amplifier being of the wide pass-band type and having a sufficient frequency pass-band width to pass the individual cycles of said high power pulses in rectangular wave form, a wave-shaping passive



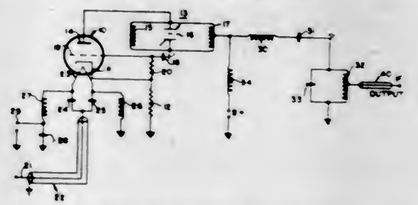
filter network and an antenna, said passive network being connected to pass said high power pulses directly from said video frequency amplifier to said antenna without further amplification.

2,658,994
PANORAMIC FREQUENCY INDICATOR
William H. Huggins and Paul I. Richards, Cambridge, Mass., assignors to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,101
7 Claims. (Cl. 250—20)



4. In an oscilloscope system, means for generating a periodic time base for the oscilloscope comprising a network having a pair of series-connected circuit elements, one of said elements being a variable reactance element, means for applying oscillations across said network, means for periodically varying said reactance element to amplitude modulate the energy in said network, a modulation envelope detector circuit connected across one of said elements for deriving the modulation envelope of said modulated energy, and a circuit for applying said modulation envelope as a sweep voltage to said oscilloscope.

2,658,995
AUTODYNE CONVERTER
John W. Christensen, Cedar City, Utah, John V. Granger, Cambridge, Mass., and John J. Wedel, Seattle, Wash., assignors to the United States of America as represented by the Secretary of War
Application January 17, 1946, Serial No. 641,837
5 Claims. (Cl. 250—20)



1. An autodyne converter comprising an electron discharge device having a single anode, a control grid, and a single cathode, first impedance means connecting said cathode to a point of reference potential, means for impress-

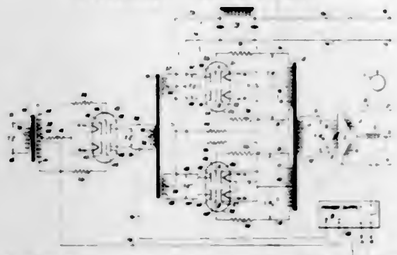
ing a given radio-frequency signal from an external source across said first impedance means, means including a resonant tank circuit regeneratively coupling said anode to said control grid to effect the generation of oscillations at a different radio-frequency from said given signal, second impedance connecting said tank circuit to a positive point of potential relative to said point of reference potential, and output means coupled to said tank circuit for selecting a beat frequency of said given and said different radio-frequencies.

2,658,996

BIDIRECTIONAL RECTIFIER AND PHASE DETECTOR

Henry C. Lehde, Brooklyn, N. Y., assignor to Control Instrument Company, Inc., New York, N. Y., a corporation of New York

Application September 27, 1949, Serial No. 118,135
2 Claims. (Cl. 250—27)



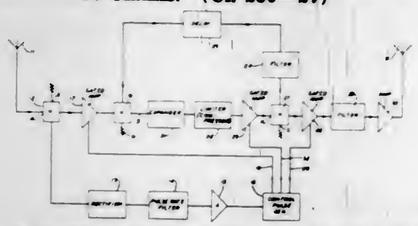
2. A phase comparator comprising in combination: first and second electron discharge units each having two anodes, two grids, and a common cathode; means applying to said units a reference voltage and an unknown voltage to be compared in phase; an output circuit; center tapped means connecting the anodes of said first discharge unit and the cathodes of said second discharge unit to said output circuit; center tapped means connecting the anodes of said second discharge unit and the cathodes of said first discharge unit to said output circuit; means applying opposite polarities of said reference voltage to the respective grids in each discharge unit; center tapped means connecting said cathodes of said units to said applying means; and means applying opposite polarities of said unknown voltage to the respective anodes in each discharge unit.

2,658,997

PULSE REGENERATOR

Robert L. Carbrey, Summit, Cassius C. Cutler, Gillette, and Carl B. H. Feldman, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 27, 1950, Serial No. 176,238
12 Claims. (Cl. 250—27)



1. A pulse shaping circuit for periodic pulses which comprises means for gating a narrow segment in time of each of said pulses at the mid-period of the nominal pulse occurrence times, a circulating pulse regenerator comprising an expander, a limiter, a pulse amplifier and a delay circuit connected in a loop circuit, means for injecting said narrow segments into said circulating pulse regenerator, means connected to said loop circuit for gating said sections out of said circulating pulse regenerator after a predetermined number of traversals through said loop, and means in said loop circuit to remove the portion of any pulse which remains in said circulating pulse regenerator after the nominal time for its removal from said regenerator.

2,658,998

MEANS FOR COMPARING TWO VOLTAGES

Abraham Hyman, New York, N. Y.

Application August 22, 1950, Serial No. 180,887
5 Claims. (Cl. 250—27)
(Granted under Title 35, U. S. Code (1952), sec. 266)



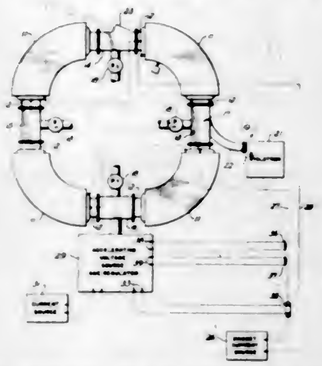
1. A means for comparing two voltages comprising: an open end delay line with terminating resistor means at its output end; a delay line closed at one end and of half the length of said open end delay line; a diode with cathode connected to the open end of said closed delay line and anode connected through a bias resistor to ground; a mixing circuit comprising three resistors connected to each other in Y, the first being further connected to the anode of the diode, the second being further connected to the output end of the open end delay line, and the third being further connected to ground.

2,658,999

BEVATRON ACCELERATION REGULATION

George M. Farly, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application January 5, 1951, Serial No. 204,616
8 Claims. (Cl. 250—27)



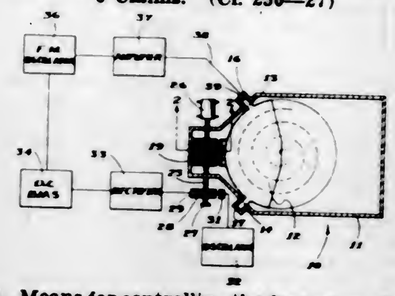
1. In a bevatron having magnet windings energized through electrical conductors from a current source and electrostatic accelerating means, the combination comprising an oscillator energizing said accelerating means and having a variable inductance in the tank circuit thereof, means connected into said electrical conductors for developing a voltage proportional to current flow therethrough, and control means connected between said last-named means and said variable inductance whereby the frequency of said oscillator is varied in accordance with the value of the magnet current.

2,659,000

VARIABLE FREQUENCY CYCLOTRON

Winfield W. Salisbury, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application April 27, 1951, Serial No. 223,327
6 Claims. (Cl. 250—27)



1. Means for controlling the frequency of a synchro cyclotron comprising, a cover member, a dee system mounted within said cover member, a rotor shaft rotatably supported by said cover member, first rotor condenser plates mounted on said rotor shaft within said cover member, first stator condenser plates mounted on the dee system, second stator condenser plates connected to the cover member, a driving means mounted to the rotor shaft externally of the cover member, third stator condenser plates of the same general shape as the second stator condenser plates mounted adjacent said rotor shaft, second rotor condenser plates mounted on the rotor shaft adjacent the third stator condenser plates, fourth stator condenser plates mounted adjacent the second rotor condenser plates and the third stator condenser plates, an oscillator connected to the third stator condenser plates, a frequency modulation oscillator with its frequency controlled by direct current bias from the rectifier, and a feedback loop within the cover member receiving an input from the frequency modulation oscillator to couple energy to the dee system.

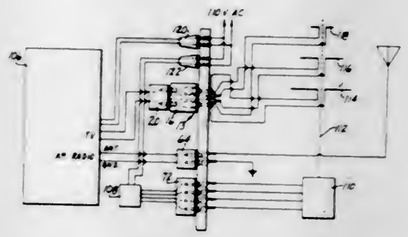
2,659,001

SELECTIVE ELECTRICAL SWITCHING MEANS FOR COMBINED RADIO AND TELEVISION RECEIVERS

Edwin D. Thorne, Dayton, Ohio

Application February 28, 1950, Serial No. 146,694
6 Claims. (Cl. 250—33)

1. A combined electrical receptacle and selecting switch comprising in combination a main supporting plate made of insulating material and having a plurality of openings therein; a cup-shaped member made of insulating material and secured to the plate in register with one of the openings therein; an axle secured in the center of the cup-shaped member; a plurality of stationary pin contacts mounted in the member in a circle about the axle, diametrically opposed pairs of said contacts being connected to a particular apparatus; a cylinder made of insulating material and arranged to fit freely within the cup-shaped member and having a central bore which freely engages the axle to form a rotatable bearing for said cylinder; a pair of sleeve contacts extending through the cylinder; a contact plunger having one end rounded and freely supported in one end of each sleeve; a spring freely mounted in said one end of each sleeve and functioning to



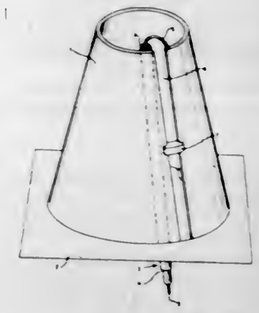
yieldingly urge the rounded ends of the plungers into engagement with the selected pairs of pin contacts in the member as the cylinder is rotated; and a plug having two push-pin contacts connected to a demand source and arranged to be engaged with the other ends of the sleeves to form a connection between said push-pins and the selected pair of pins in the member to connect the desired apparatus to the demand source, said plug also providing means for rotating the cylinder to select the desired apparatus.

2,659,002

SPLIT TRUNCATED CONE ANTENNA

Price M. Keeler, Hempstead, N. Y., assignor to the United States of America as represented by the Secretary of War

Application March 29, 1946, Serial No. 657,943
11 Claims. (Cl. 250—33)



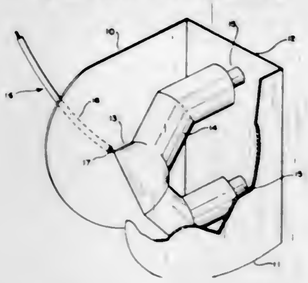
11. A broad band antenna having a substantially circular pattern plane polarized in a plane perpendicular to its axis, said antenna comprising a hollow metallic body having an outer radiating surface substantially in the form of a truncated cone and having a longitudinally slit therein, the effective length of said slit being at least approximately equal to a half wavelength at the lowest frequency in said band, and energy transmission means coupled to said body on opposite sides of said slit for applying energy thereto.

2,659,003

ANTENNA MOUNTABLE IN SMALL SPACES

Arthur Dorne, Mineola, N. Y., David Lazarus, Chicago, Ill., and Herbert P. Minot, Belmont, Mass., assignors to the United States of America as represented by the Secretary of War

Application April 30, 1946, Serial No. 665,990
5 Claims. (Cl. 250—33)



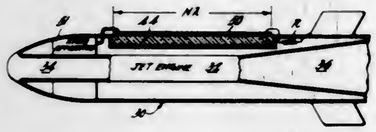
4. A high frequency radiator comprising a section of transmission line composed of two conductive plates lying wholly in substantially parallel planes, said transmission line being short-circuited at one end by another conductive plate lying wholly in a plane perpendicular to said conductive plates and opened on all other sides, means coupled to said line for feeding high frequency electromagnetic energy thereto in the transmission line mode, said feeding means including a radiating conductor mounted in the space between said parallel plates of said transmission line and means capacitatively coupling said radiating conductor and said transmission line.

2,659,004

NONRESONANT DIRECTIVE ANTENNA

Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application March 12, 1948, Serial No. 14,601
13 Claims. (Cl. 250—33.61)



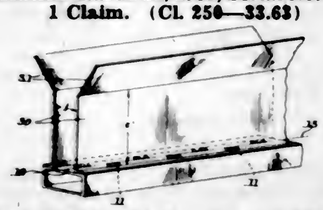
1. A directive antenna for use on a conductive surface structure and providing maximum effectiveness in a given direction and at an angle substantially less than a right angle with respect to said conductive surface structure, said conductive surface structure having a recess therein, a body of dielectric material arranged in said recess, a conductor arranged on said dielectric body substantially flush with said conductive surface structure, said conductor and said body being at least as long as several wavelengths at the operating frequency in said surface along said given direction, a resistive element connected between said conductive surface structure and one end of said conductor, said element having a resistance value substantially equal to the characteristic impedance of the transmission line formed by said conductor and said conductive surface, and means to couple utilization apparatus between said conductive surface structure and the other end of said conductor.

2,659,005

MICROWAVE ANTENNA

Harry Gruenberg, Ottawa, Ontario, Canada, assignor to National Research Council, Ottawa, Ontario, Canada, a corporation of Canada

Application March 21, 1951, Serial No. 216,718
1 Claim. (Cl. 250—33.63)



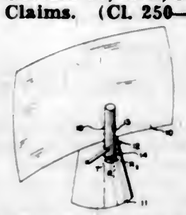
A directive antenna for microwaves comprising a waveguide of substantially rectangular cross-section with two opposite narrow faces and two relatively broad faces, said broad faces having a width of substantially three-fourths of a wavelength in free space, the waveguide having formed in a broad face thereof a series of slots substantially resonant for a wave of a given wavelength and of substantially greater length than width, the centres of the slots of the series being spaced along the length of a linear section of the waveguide at intervals of less than substantially seven-eighths of said wavelength in free space, each of the slots of the series being formed with its length parallel to the longitudinal centre line of said broad face, adjacent slots lying on opposite sides of said centre line, the distance from said centre line of substantially every slot being at least substantially the same as the distance from said centre line of either adjacent slot, a pair of flat conducting plates arranged in substantially parallel relation and extending from said broad face throughout the length of said linear section, said plates being substantially parallel to said centre line and spaced one on either side of the series of slots, the distance between said plates being less than a half of said wavelength in free space and the length of said plates in a direction normal to said broad face being at least substantially said wavelength in free space, whereby said plates provide flat parallel conducting surfaces bounding the space in front of said slots and being spaced apart a distance greater than the width of a slot.

2,659,006

RADAR SYSTEM AND ANTENNA THEREFOR

Raymond G. Herb, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application October 10, 1945, Serial No. 621,569
11 Claims. (Cl. 250—33.65)



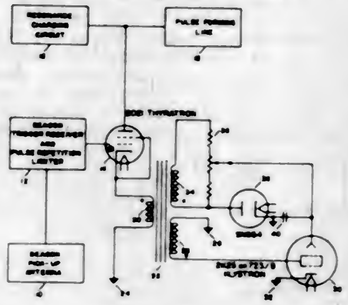
10. An antenna system comprising a reflector, an array of spaced antenna elements juxtaposed to said reflector, a waveguide, an array of probes situated within said waveguide, said probes having different angular positions of entry into said waveguide with respect to a reference direction, and means coupling each of said probes to one of said antenna elements.

2,659,007

PULSE RECTIFIER CIRCUIT

Eugene P. Halpin, South Bend, Ind., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware

Application June 24, 1949, Serial No. 101,113
5 Claims. (Cl. 250—36)



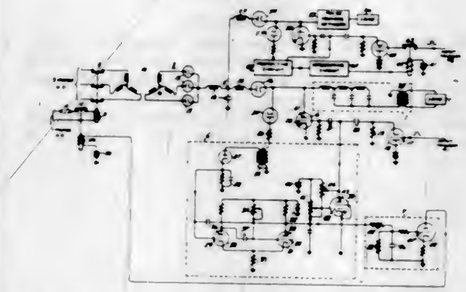
2. In combination, a reflex oscillator having a grounded cathode, a cavity resonator and a repeller, a pulse transformer having a primary winding and a pair of secondary windings, one of the secondary windings being connected to the cavity resonator to periodically provide positive pulses to the cavity, a voltage smoothing network, the other secondary winding being connected to the repeller and the smoothing network to apply a substantially constant negative voltage of considerable magnitude to the repeller, and means for providing pulses to the primary winding of the pulse transformer.

2,659,008

ELECTRONIC CONTROL CIRCUIT

Raymond H. Floyd, Redondo Beach, Calif., assignor to General Electric Company, a corporation of New York

Application September 11, 1951, Serial No. 246,077
8 Claims. (Cl. 250—36)



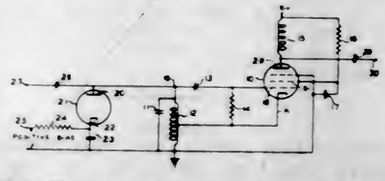
1. In an impulse system including a load device, a pulser for causing energy pulses to be supplied to said load device and a power source for energizing at least a portion of said system, a protection circuit comprising means coupled to said system for deriving a control potential in response to an abnormality occurring therein during a predetermined number of operating pulses, means responsive to said control potential for disabling said pulser for a time interval of preselected duration thereby to interrupt the supply of energy pulses to said load device during said time interval, and means responsive to a given characteristic of said control potential for interrupting the supply of energy from said power source to said portion of said impulse system.

2,659,009

ELECTRONIC OSCILLATOR SYNCHRONIZING CIRCUIT

Alfred G. Emslie, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application May 17, 1945, Serial No. 594,260
9 Claims. (Cl. 250—36)



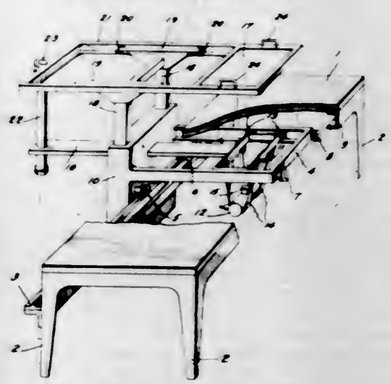
1. An oscillator synchronizing circuit, including a vacuum tube oscillator having an oscillation frequency determining tank circuit connected to the electrodes of said tube, normally inoperative damping means connected across said tank circuit for lowering the output of said oscillator, when it exceeds a predetermined amplitude, and means for applying pulses to an electrode of said tube to lower the amplitude and easily synchronize the oscillation of said oscillator with said pulses.

2,659,010

X-RAY DEVICE

Jan Jesayas Christiaan Hardenberg, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application February 27, 1952, Serial No. 273,658
Claims priority, application Netherlands March 3, 1951
2 Claims. (Cl. 250—58)



1. A device for X-ray examination, comprising a table plate, means for securing X-ray apparatus to said table plate, said means comprising a first carrier mounted for movement in the direction of length of the table plate, a first frame secured to said carrier and extending transversely beneath said table plate, a second carrier mounted in said first frame and displaceable along the length of this frame so as to be displaceable transversely to said table plate, an X-ray tube with a ray cone directed at a right angle to the plane of said table plate, said X-ray tube being supported by said second carrier, adjustable support columns extending from said first carrier in a direction normal to the plane of said table plate, a second frame parallel to said table and supported by said col-

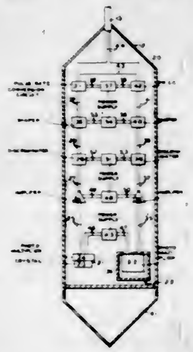
umns, said frame being displaceable along rollers on said columns in a direction at right angles to said columns and extending in a direction transverse to said table plate, coupling means connecting said second carrier and said second frame to effect a common movement of said member in a direction transverse to said table plate, means for mounting a ray collecting screen in said second frame to be in line with said X-ray tube when said second carrier and said second frame are coupled together, and weights in said first carrier for holding said screen in equilibrium.

2,659,011

METHOD AND APPARATUS FOR COMPENSATION FOR THE EFFECTS OF TEMPERATURE AND VOLTAGE FLUCTUATIONS ON SCINTILLATION COUNTERS

Arthur H. Youmans and Ralph Monaghan, Tulsa, Okla., assignors to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware

Application May 23, 1951, Serial No. 227,854
23 Claims. (Cl. 250—71)



1. A method of compensating for the effects produced by variations in the operating characteristics of elements used in a well surveying subsurface unit which are sensitive to variations in temperature and applied voltage, said unit having a system of elements which employs a radiation detector of the scintillation counter type, that comprises the steps of subjecting the scintillation counter to radiation emanating from the wall of the well, simultaneously and with at least one independent photomultiplier monitoring at least one of the parameters which produces only an effect that is to be compensated, utilizing the output signals from the monitor to vary the operating characteristics of at least one element in the scintillation counter system, whereby the output signals from the scintillation counter system will be representative of the intensity of the radiation emanating from the wall of the well.

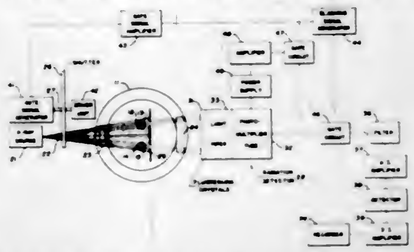
2,659,012

X-RAY DENSITOMETER

Robert Bromberg and William L. Martin, Los Angeles, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application August 7, 1951, Serial No. 240,695
2 Claims. (Cl. 250—71)

1. An improved comparative densitometer for indicating the standard relative density of a pair of objects and comprising an X-ray source emitting a substantially mono-energetic beam of X-rays directed upon said objects, an interrupter disposed intermediate said source and said objects and alternatively shielding each of said objects from said source, a radiation detector disposed on the opposite side of said objects from said source and in alignment therewith, said radiation detector having controlled amplification means and an output, a first gate circuit having an input and an output with the input thereof connected to the output of said radiation detector, indicating means connected to the output of said gate circuit, a gate signal generator energized by said interrupter to produce signals in synchronism with the alternating X-ray beam striking one of said objects, a blanking signal generator connected to and controlled by said



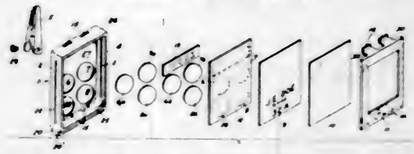
gate signal generator and producing a blanking signal, said first gate circuit having control means energized by said blanking signal to protect said indicating device from undesirable signals of said radiation detector, power supply means including a standard voltage source and having a variable voltage output applied to the control means of said radiation detector, and a second gate circuit having an input connected to the output of said radiation detector and an output connected to said power supply means, said second gate circuit having a gate control connected to said gate signal generator whereby said radiation detector is controlled to produce at the output thereof a signal of constant amplitude for incident X-rays transmitted through one of said objects.

2,659,013

BADGE METER

Doyle M. Davis, Corryton, and James C. Hart, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application November 19, 1952, Serial No. 321,412
4 Claims. (Cl. 250—83)



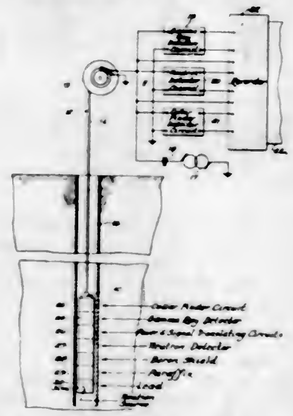
4. A badge dosimeter for use in identifying personnel and estimating the radiation dosage to which a wearer has been exposed comprising a first sheet of film particularly sensitive to gamma rays of a selected energy range contained in a light-impervious pocket, a second sheet of film particularly sensitive to gamma rays of energy outside said selected energy range, and a third sheet of film particularly sensitive to neutrons arranged in a second light-impervious pocket, a fourth sheet of film carrying a photograph of the wearer and inscribable with identifying characters, said film being pervious to gamma rays, a fifth sheet of film provided with a plurality of apertures and pervious to gamma rays; a plurality of radiation filters characterized by absorption of radiations of different energies carried in said apertures; a tray having a plurality of apertures arranged to correspond with those of said fifth sheet and adapted to receive said five sheets of film, in the order named, from top to bottom, an apertured closure member engaging said tray for holding said film sheets in place therein, and at least one support member removably attached to said tray and adapted to receive an indicating radiation monitor.

2,659,014

RADIOACTIVITY WELL LOGGING SYSTEM

Serge A. Scherbatskoy, Tulsa, Okla., assignor to Perforating Guns Atlas Corporation, Houston, Tex., a corporation of Delaware

Application July 5, 1951, Serial No. 235,300
21 Claims. (Cl. 250—83.6)



1. A radioactivity well logging system, comprising a subsurface unit, a cable having at least one insulated conductor for lowering said unit into a borehole, a first radiation detector included in said unit and adapted to produce a first signal in response to first radiations incoming to said unit, a second radiation detector included in said unit and adapted to produce a second signal in response to second radiations incoming to said unit, and means including two mutually non-interfering self-balancing follow-up systems for transmitting over a conductor of said cable information representative of said first and second signals and for simultaneously logging at the earth's surface the activity of said first and second radiations in the borehole.

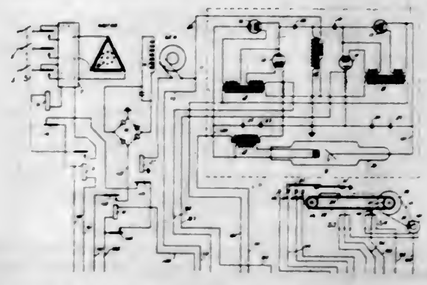
2,659,015

X-RAY APPARATUS

William M. Lee, Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware

Application October 19, 1949, Serial No. 122,195
16 Claims. (Cl. 250—86)

1. In combination, an X-ray tube, means including an alternator for supplying power to said tube, a circuit for supplying current to the field of said alternator, a regulator for adjusting the current flow in said circuit to regulate the voltage of said alternator, said regulator including a normally open switch which is closed responsive to an operation of said regulator which would reduce the current flow in said circuit, if current were flowing therein, a control relay for closing said circuit, an initial energizing circuit for said relay including said switch, and a lock-



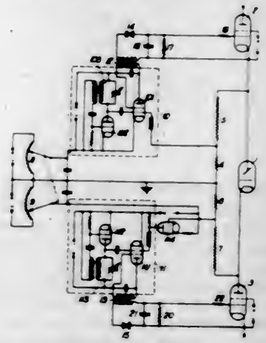
ing circuit for said relay independent of said switch, said locking circuit including contacts closed by said relay on energizing.

2,659,016

OPERATION OF X-RAY TUBES

Victor Quittner, London, England, assignor to General Radiological Limited, London, England, a British company

Application July 19, 1951, Serial No. 237,560
Claims priority, application Great Britain July 22, 1950
5 Claims. (Cl. 250—103)



1. A circuit for operating an X-ray tube, comprising a grid-controlled switch tube in series with the X-ray tube, a high frequency generator, a potentiometer connected to a terminal of the X-ray tube and to said high frequency generator applying to said generator a modulation dependent on the potential of at least one electrode of the X-ray tube, a high frequency transformer having its primary winding in the output circuit of said high frequency generator, and a rectifier and smoothing circuit connecting the secondary winding of said transformer to the grid and cathode of said switch tube.

2,659,017

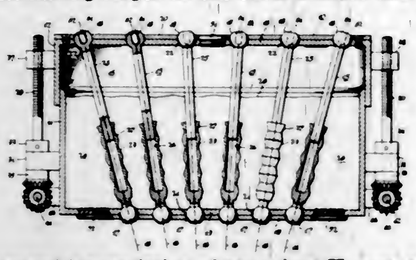
RAY DIRECTING DEVICE

John B. Bartow, Blue Bell, Pa., assignor to Bartow Beacons Inc., Blue Bell, Pa., a corporation of Pennsylvania

Application February 12, 1951, Serial No. 210,597
14 Claims. (Cl. 250—105)

1. A ray directing device for X-rays and the like, comprising a pair of spaced supports relatively movable toward and away from each other, and longitudinally extensible and contractible ray transmissive elements extending between said

supports and supported thereby, each of said elements having ridges on the outer surface thereof



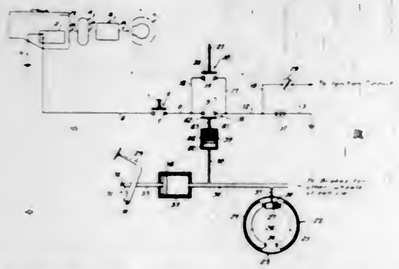
to prevent transmission of secondary X-rays, said elements being recessed at their entrance ends to receive radioactive elements.

2,659,018

ENGINE STARTER CONTROL SYSTEM

William V. Harrison, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application November 18, 1950, Serial No. 196,406
1 Claim. (Cl. 290—38)



In a system for controlling the starting of an automotive vehicle engine, the combination of a starter motor for starting the engine, a vehicle transmission having a shifter lever and disposed between the engine and driving means for said vehicle, a hydrodynamic coupling device between the engine and the vehicle transmission, a circuit for actuating said starter motor, a first switch in said circuit controlled by the vehicle transmission shifter lever movable to a closed position when the shifter lever is moved to its neutral position and movable to an open position when the shifter lever is moved to any position other than its said neutral position, a brake for the vehicle, a second switch in said circuit and connected in parallel with said first switch, said second switch being movable to a closed position upon application of said vehicle brake and movable to an open position upon release of said vehicle brake, and a manually controlled switch for completing said circuit to actuate said starter motor to start the vehicle engine when either of said first-named switches occupies its closed position.

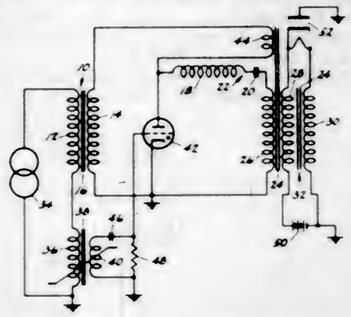
2,659,019

PULSE GENERATOR

Joseph F. Clayton, Detroit, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware

Application November 5, 1951, Serial No. 254,901
15 Claims. (Cl. 307—108)

15. A pulse generator, including, a source of alternating voltage, a charging transformer having a primary winding and a secondary winding, a saturable reactance connected in series with the voltage source and the primary winding of the transformer to produce a pulse at substantially zero current through the winding, a pulse transformer having a primary winding and a secondary winding, the pulse transformer being magnetically coupled to the primary winding of the charging transformer to produce a leakage between the primary and secondary windings of the charging transformer, the leakage being represented by an inductive reactance, a pulse forming network adapted to be capacitively reactive at the frequency of the voltage from the source, the network being connected in series with the



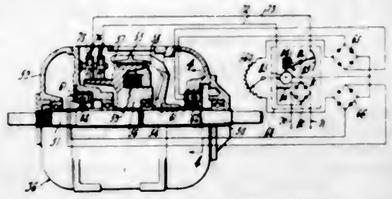
primary winding of the pulse transformer and the secondary winding of the charging transformer to produce a resonance with the leakage reactance at the frequency of the voltage from the source, and a normally non-conductive gas-filled tube having a cathode, grid and plate, the cathode and plate of the tube being connected across the pulse forming network and the primary winding of the pulse transformer, the grid of the tube being connected to the saturable reactance to provide a conductance of the tube upon the formation of the triggering pulse by the reactance so that the pulse forming network may discharge through the primary winding of the pulse transformer.

2,659,020

MECHANISM FOR ADJUSTABLY CORRELATING TOOL FEED WITH RATE OF CUTTING OF MACHINE TOOLS

Roger W. Brown, Windsor, Vt., assignor to Cone Automatic Machine Company Inc., Windsor, Vt., a corporation of Vermont

Application November 1, 1950, Serial No. 193,485
4 Claims. (Cl. 310—95)



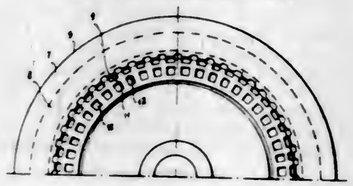
1. In combination, rotary means, moving means, and driving connections from said rotary means to said moving means for moving said moving means at a speed adjustably proportioned to the speed of rotation of said rotating means, said connections including a rotary driving member connected to said rotary means to be rotated thereby, a rotary driven member connected to said moving means to move said moving means by rotation of said driven member, an electrically energized clutch between said members, electrical means energized by rotation of said drive and driven member in proportion to the speeds of rotation of said drive and driven members, and means responsive to the relative energization of said electrical means in predetermined adjustable ratio controlling the energization of said clutch.

2,659,021

BRAKE AND CLUTCH DEVICE

Alejandro Poliansky, Buenos Aires, Argentina

Application September 29, 1949, Serial No. 118,580
4 Claims. (Cl. 310—106)



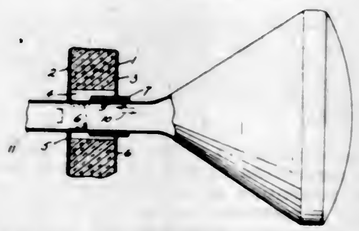
1. A brake and clutch device, comprising, in combination, a first shaft; an annular magnet rigidly connected to said first shaft; a second shaft; an annular armature rigidly connected to said second shaft, said armature including a body consisting of ferro-magnetic material and co-operating with said annular magnet so as to define an air gap therewith; a complex low ohmic winding partly embedded in said body of said armature and having a plurality of conductors arranged on the face of said armature facing said gap, said conductors being separated from one another by said ferro-magnetic material of said body; and a plurality of pairs of axially spaced, axially aligned teeth having their leading edges parallel to their trailing edges forming part of said annular magnet and each of said teeth having a face arranged substantially parallel to said face of said armature, each of said faces of said teeth having a width larger than the distance between each two consecutive teeth and substantially equal to the widths of the ferro-magnetic material between said conductors of said winding of said armature whereby when said magnet rotates at different speed from said armature, said teeth induce voltages in said conductors aiding effectively in the synchronization of said armature with said magnet.

2,659,022

ELECTROSTATIC DEFLECTION SYSTEM

Warren J. Oestreicher, Brooklyn, N. Y., assignor to Tele King Corporation, a corporation of New York

Application May 22, 1951, Serial No. 227,655
3 Claims. (Cl. 313—82)



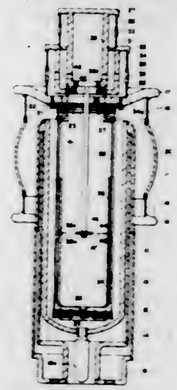
1. In combination a cathode ray tube having a screen portion and a neck portion reduced in diameter with regard to said screen portion, an electron gun arranged in said neck portion, a molding of insulating material of high dielectric constant surrounding said neck portion in a position over a predetermined distance in front of said gun and means including particles of said molding subjected to a high potential unipolar electrostatic field during formation of said molding for producing an electrostatic focussing field across the opening in said molding in a direction parallel to the axis of the tube and under control of the electric charges retained in said particles.

2,659,023

FILAMENT STRUCTURE

George J. Agule, Stamford, Conn., assignor to Machlett Laboratories, Incorporated, Springdale, Conn., a corporation of Connecticut

Application June 21, 1951, Serial No. 232,810
9 Claims. (Cl. 313—273)



1. In an electron tube having an anode and a filament within a vacuum envelope, a filament structure comprising a plurality of parallel filament strands circularly arranged and so connected that they permit a flow of current therethrough, a center mast supported at one end and located on the tube's axis, a close spaced pair of annuli extending radially from the center mast on which said annuli are mounted in a fixed position, fine wire ties connecting filament strands to the annuli, ties of the same potential being affixed to the same annulus, and means insulating the tie wires of one potential from the other tie wires.

2,659,024

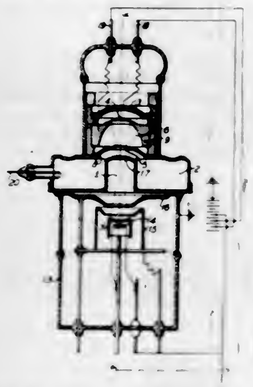
VELOCITY MODULATED TUBE OF THE REFLEX TYPE

Jean Bernier and Jean Broussart, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil, a corporation of France

Application April 27, 1949, Serial No. 90,002
Claims priority, application France May 5, 1948
3 Claims. (Cl. 315—5)

1. A velocity modulation electronic tube comprising a source of electrons to be emitted in a beam, a velocity modulation cavity resonator having inlet and outlet grids interposed across the path of the beam, means comprising a connection between a first source of voltage and said resonator to raise the latter to a positive potential relatively to the said source of electrons, the surface of the resonator in the neighborhood of the outlet grid being concave in the direction of the beam, a reflecting electrode located in the axis of the beam beyond the resonator a surface which

is generated by a circle centered upon a point located inside the beam at a level where the cross-section of the beam is smallest, means comprising a connection between a second source of voltage and said reflecting electrode to polarize the latter negatively with respect to said source of electrons thereby to reflect the beam toward the resonator, an intermediate electrode placed between the resonator and reflecting electrode and having an aperture surrounding the axis of the beam, said aperture being located within the



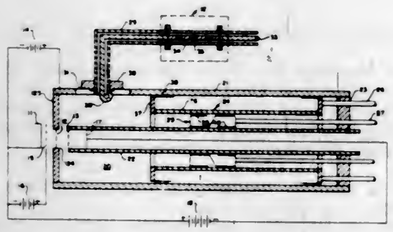
equipotential surface corresponding to the cathode voltage, said intermediate electrode being bounded on the one side by a surface generated by a circle concentric with the said circle generating the surface of the reflecting electrode, said surface of said intermediate electrode being homothetic to said surface of said reflecting electrode, and means comprising a connection between a third source of voltage and said intermediate electrode for raising the latter to a voltage approximately equal to that of said source of electrons.

2,659,025

REFLEX KLYSTRON OSCILLATOR

William H. Huggins, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War

Application March 29, 1946, Serial No. 657,952
2 Claims. (Cl. 315—5)



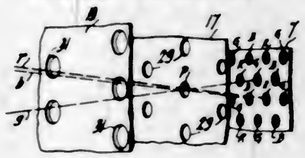
1. A reflex klystron oscillator for high frequency operation comprising a cavity resonator including a first coaxial line having a first characteristic impedance and a second coaxial line coupled across one end of said first line and having a second characteristic impedance, means coupled to both said lines tuning said cavity resonator to a given frequency and to a harmonic frequency thereof, the inner and outer conductors of said first coaxial line being separated from one another by a gap at the end of said first line remote from the end coupled to said second line, said conductors of said first coaxial line being provided with a pair of apertures adjacent said gap, a source of electrons mounted adjacent one of said apertures for projecting electrons across said gap, electron reflecting means mounted adjacent the other of said apertures for reflecting electrons back across said gap in an interval of time to excite said resonator to oscillate at a fundamental frequency equal to said given frequency, and output coupling means positioned in a region of said resonator where energy of said harmonic frequency is a maximum and energy of said given frequency is substantially less than that of said harmonic frequency for providing output energy of said harmonic frequency.

2,659,026

CATHODE-RAY TUBE OF THE MASKED TARGET VARIETY

David W. Epstein, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 12, 1951, Serial No. 220,603
7 Claims. (Cl. 315—21)



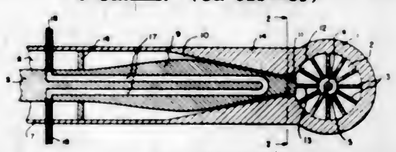
1. Method of preventing warping of the thin apertured-metal masking-plate in a cathode-ray tube of the masked-target variety due to thermal effects caused by impact of a scanning beam upon said thin metal plate, said method comprising, intercepting a portion of said beam in a plane intermediate the beam-source and said plate during a fraction of that part of the scanning movement whereat the beam is traversing the space between the apertures in said plate.

2,659,027

OUTPUT CONNECTION FOR MAGNETRON

Lewi Tonks, Scotia, N. Y., and Joseph F. Hull, Asbury Park, N. J., assignors to the United States of America as represented by the Secretary of the Army

Application July 12, 1951, Serial No. 236,446
6 Claims. (Cl. 315—39)



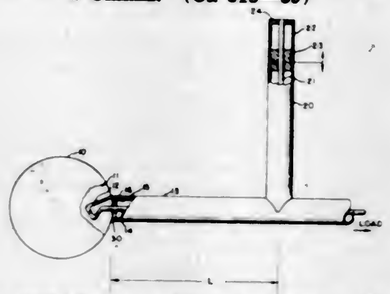
1. In combination with a coaxial transmission line a magnetron having an internal resonator system presenting an anode structure having a plurality of resonator cavities separated by radially disposed anode segments and a cathode supported centrally between the inner ends of said segments; a power output system for the magnetron comprising an outer hollow conductor integrally connected to said anode structure and opening into the resonator space thereof, said hollow conductor being aligned with said coaxial line, an inner member for said output system coupled to the inner member of said coaxial line and supported in spaced relation to said outer member of said output system with the face of its inner end disposed substantially in alignment with the outer wall of said resonator space and having one of said resonator segments connected to and supported solely thereby.

2,659,028

TUNABLE MAGNETRON CIRCUIT

Robert L. Kyhl, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application November 6, 1945, Serial No. 627,037
2 Claims. (Cl. 315—39)



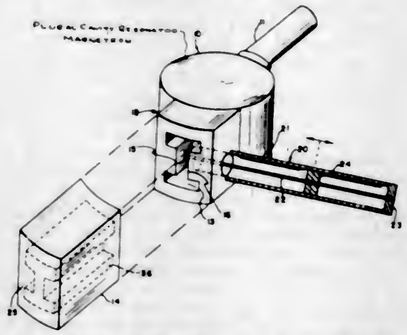
1. A tunable radio frequency generator including a magnetron, a coaxial transmission line coupled to said magnetron and serving as the output line of said magnetron, a single adjustable short-circuited coaxial transmission line tuning stub shunting said coaxial transmission line at a point corresponding to the frequency convergence point of the Rieke diagram of said radio frequency generator, and means for adjusting the length of said tuning stub for changing the frequency output of said magnetron while maintaining substantially constant the power output thereof.

2,659,029

TUNABLE MAGNETRON CIRCUIT

Albert M. Clogston, Melrose, and William V. Smith, Medford, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War

Application November 16, 1945, Serial No. 629,155
5 Claims. (Cl. 315—39)



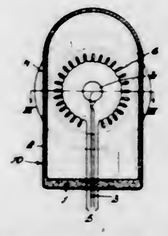
2. A tunable radio frequency generator including a plural cavity magnetron, said magnetron having a plurality of individual cavity resonators, a radio frequency output transmission line coupled to one of said cavity resonators, an additional cavity resonator non-resonant in the frequency range of said magnetron, said additional resonator having a substantially I-shaped aperture serving to couple said additional resonator to a second of said individual cavity resonators, and a variable short circuited coaxial transmission line tuning stub connected across said aperture.

2,659,030

MAGNETRON

Jan Verweel, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application April 13, 1950, Serial No. 155,575
Claims priority, application Netherlands May 13, 1949
2 Claims. (Cl. 315—40)



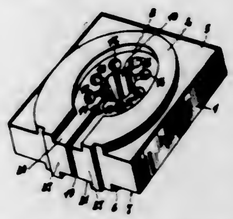
1. A magnetron comprising a cathode, a plurality of anode segments constituting a portion of a resonating system and comprising a helix of conductive material, the axis of said helix encircling the cathode, each turn of the helix being equidistant from the cathode and constituting one of said anode segments, a conductor connecting the midpoints of the turns of the helix on the side remote from the cathode, and means adjacent to said helix to produce a magnetic field traversing the helix.

2,659,031

MAGNETRON OF THE CAVITY RESONATOR TYPE

Karel Herman Jan Bokhove, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application March 7, 1952, Serial No. 275,403
Claims priority, application Netherlands April 14, 1951
3 Claims. (Cl. 315—40)



1. A magnetron anode structure of the cavity resonator type comprising an anode block having end faces and defining a resonant cavity opening into a discharge space, said block being provided with a passageway having a central

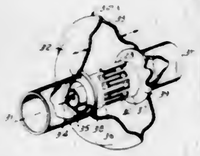
portion of given width and end portions having a width greater than said given width thereby forming an H-shaped channel for connecting the resonant cavity with a hollow wave guide, each of said end faces having one portion depressed with respect to another portion thereby defining a substantially annular rim portion eccentric with respect to said resonant cavity and said discharge space and having an inner peripheral border spaced by a given distance from the resonant cavity and the H-shaped channel, terminal plates having complementary surfaces interfitting with the end faces of said block, and solder means securing the terminal members to said block.

2,659,032

TUNABLE MAGNETRON

Franzo H. Crawford, Williamstown, Mass., assignor to the United States of America as represented by the Secretary of War

Application March 5, 1946, Serial No. 652,188
5 Claims. (Cl. 315—40)



1. A magnetron anode including two annular anode sections disposed coaxially and opposite one another, a ring of interleaving anode fingers mounted circumferentially with substantially uniform spacing about the axis of said annular anode sections, two substantially diametrically opposite fingers in said ring being wide anode fingers having a circumferential dimension substantially that of two ordinary anode fingers plus the spacing between fingers, adjacent fingers in said ring being connected at one end thereof to opposite annular anode sections, and means reactively coupling one of said wide anode fingers to the anode section opposite the anode section to which said wide finger is connected.

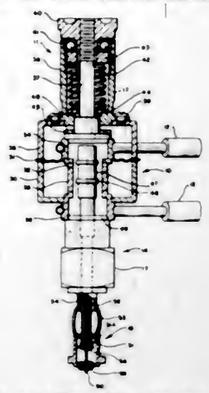
2,659,033

TUNABLE SQUIRREL CAGE MAGNETRON

Milton D. Hare, Chicago, Ill., and Virginia Leonard, Arlington, Mass., assignors to the United States of America as represented by the Secretary of War

Application March 29, 1946, Serial No. 657,944
7 Claims. (Cl. 315—40)

1. A squirrel cage magnetron including a cylindrical cathode and a substantially cylindrical cavity resonator coaxial with said cathode, two annular anode sections disposed coaxially with said resonator and connected to opposite end closures of said resonator, a ring of interleaving anode fingers mounted circumferentially about the axis of and within said resonator and entirely between said anode sections, adjacent fingers being connected at one end thereof to opposite annular anode sections, means including magnetic pole pieces at opposite ends of said cavity resonator and each affixed to one of said anode sections for generating a magnetic field substantially parallel to the axis of said resonator, one of said pole pieces being fixed to said resonator and the other pole piece being adjustably mounted on said resonator and means mounted on said resonator and connected to said other pole piece for moving one of said anode sections and said



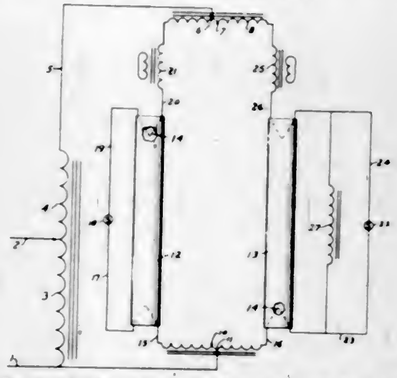
other pole piece axially with respect to the other anode section and said one pole piece.

2,659,034

CIRCUIT FOR SPACE DISCHARGE LAMPS

Willard C. Hall, Los Angeles, Calif., assignor to Electronics Enterprises, Los Angeles, Calif., a co-partnership

Application March 17, 1950, Serial No. 150,223
6 Claims. (Cl. 315—97)



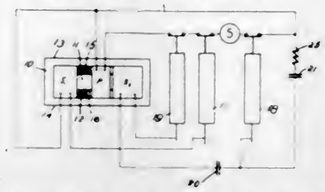
1. In an electrical circuit for starting and maintaining space discharge lamps and the like; a pair of space discharge lamps, each lamp having an electrode at each end thereof, each electrode having a pair of end leads which extend exteriorly of its respective lamp to present a pair of terminals, each lamp having one electrode terminal connected to one of the terminals of its other electrode through an automatic starter switch; a first autotransformer with end terminals and having an off-center tap, the end terminals of this transformer having connection across a pair of other electrode terminals from different lamps, a second autotransformer having an off-center tap and having end terminals which have connection with still other electrodes through choke coils in parallel which coils have their secondaries shorted, a main autotransformer with a variable intermediate tap and its ends connected in series with leads extending from the off-center taps, and feeder conductors connected across the variable tap and one end of the main transformer which are adapted to be connected to a suitable source of electrical current.

2,659,035

APPARATUS FOR OPERATING GASEOUS DISCHARGE TUBE DEVICES

Percival K. Ranney, Lakewood, and Charles R. Kazebee, Cleveland, Ohio, assignors to The France Manufacturing Co., Cleveland, Ohio, a corporation of Ohio

Application August 12, 1950, Serial No. 179,006
10 Claims. (Cl. 315—138)



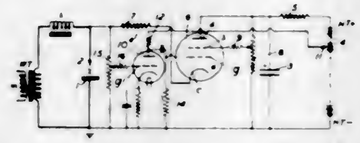
1. An apparatus adapted for operating a plurality of discharge tube loads from an alternating current source comprising in combination, a magnetic core, a primary winding thereon, means for connecting the primary to the source, a plurality of secondary windings electrically coupled to the primary winding on said core, circuit means connecting the primary and each of the secondary windings in auto-transformer relation, a gaseous discharge tube connected in series with each of the secondary windings, each tube having a pair of sockets, one socket of each tube connected to a corresponding secondary winding and the other socket of each tube having normally open contacts connected in series with the means for connecting the primary to the source, a series capacitance in one of the secondary circuits adapted to provide a leading current therein, a magnetic core shunt positioned on said core between another secondary winding and the adjacent primary winding to provide a lagging current in the corresponding secondary circuit of substantially the same value as said leading current, and a capacitance connected across one of said tubes in its secondary circuit.

2,659,036

ALTERNATING CURRENT ARC WELDING EQUIPMENT

James Christopher Needham and Leonard Herbert Humphrey Orton, Greenford, England, assignors to E. R. A. Patents Ltd.

Application August 7, 1951, Serial No. 240,726
Claims priority, application Great Britain August 11, 1950
15 Claims. (Cl. 315—163)



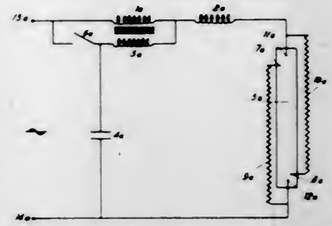
1. In an alternating current arc-welding system, the combination of a pair of arc-welding electrodes connected to a source of alternating current, a source of direct current, a normally open circuit extending between said source of direct current and said arc for applying across said electrodes a unidirectional current pulse of a voltage of less than 500 volts, and a switching device responsive to the condition of the arc across said electrodes for closing said current when the arc commences to extinguish.

2,659,037

DEVICE FOR THE IGNITION AND THE OPERATION OF A GAS FILLED ELECTRIC DISCHARGE APPARATUS

André Claude, Paris, France

Application June 18, 1948, Serial No. 33,883
In France July 28, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 28, 1961
13 Claims. (Cl. 315—233)



1. In combination, an alternating current supply line of a given frequency having two conductors, a gaseous electric discharge apparatus the starting voltage of which is substantially higher than the voltage sufficient for ensuring a stable operation and the operating voltage of which is sufficiently low for the direect feeding by the supply line after starting, said discharge apparatus having two terminals, a first reactance coil, a connection between one end of said first reactance coil and one conductor of said current supply line, a second reactance coil, a connection between one end of said second reactance coil and the other end of said first reactance coil, a connection between the other end of said second reactance coil and one terminal of the discharge apparatus, said second reactance coil being magnetically independent of said first reactance coil, a connection between the other terminal of the discharge apparatus and the other conductor of the current supply line, a third reactance coil, said third reactance coil being magnetically independent of said second reactance coil, a connection between one end of said third reactance coil and said one end of the second reactance coil, a condenser having two terminals, a connection between one terminal of said condenser and the other end of said third reactance coil, a connection between the other terminal of the condenser and said other terminal of the discharge apparatus, said first and third reactance coils and said condenser forming a circuit in partial resonance at the frequency of the current supply line.

2,659,038

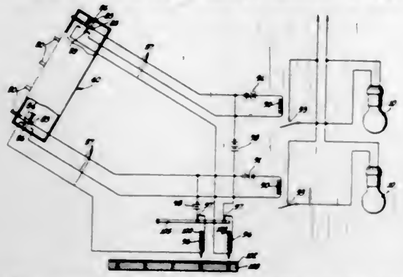
AUTOMATIC ILLUMINATION SYSTEM

Eric H. Heyer, Los Angeles, Calif.

Application August 15, 1949, Serial No. 110,344
4 Claims. (Cl. 315—316)

1. In an automatic set lighting system, a control circuit for recording a certain number of energized lamps and for reselecting said lamps at a subsequent time, comprising a plurality of lamps, certain of which are to be energized, a panel having a plurality of movable switches therein, one switch being provided for each of said lamps, a pair of contacts for each of said switches, said switches making one contact when in one position and another contact when in a second position, a circuit from one of each of said pairs of contacts for energizing its respective lamp upon making of said contact by said switch, solenoids having movable cores and corresponding in number to said switches and said lamps, energizing

means for said solenoids, a circuit from each of the other of said pair of contacts for connecting said energizing means to a respective solenoid when said other contact is made by said switch, a switch having a fixed contact interposed in each of said last mentioned circuits between each of said solenoids and said energy source, a common



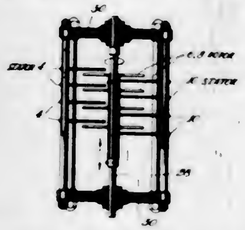
movable member for said last mentioned switch, and multiple contacts mounted on said common movable member for simultaneously closing all of said fixed contacts, operation of said common movable member energizing the solenoids connected to said first mentioned switches, said solenoids having movable cores for producing a record of the solenoids energized.

2,659,039

CAPACITATIVE POTENTIOMETER COMPRISING AT LEAST TWO SERIES-CONNECTED CAPACITIES

Claude Bourgonnier, Marc Jouguet, and Andre Bunodiere, Fiers, France, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application May 4, 1946, Serial No. 667,250
2 Claims. (Cl. 317—249)



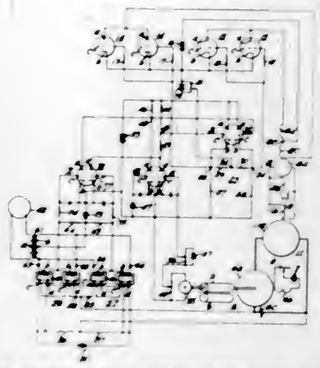
1. A rotatable capacitative potentiometer comprising two series-connected variable capacitors and comprising two spaced flat parallel substantially sector-shaped electrodes, an insulating member supporting said electrodes in spaced relationship and insulated from each other, a control electrode comprising two flat portions each of which is positioned in capacitative parallel relation to only one of two oppositely oriented faces of each of said spaced electrodes, means for selectively moving said control electrode and said supporting member relative to each other in a direction perpendicular to the said spaced electrodes to thereby continuously vary the ratio of capacity between the said control electrode and the respective spaced electrodes without varying the total series capacitance of the said two spaced electrodes, and means operative upon rotation of said control electrode about an axis perpendicular to the spaced electrodes relative to said spaced electrodes for varying the total capacitance between the spaced electrodes without altering the said ratio of capacitance.

2,659,040

ELECTRIC CONTROL SYSTEM FOR DYNAMOELECTRIC MACHINES WITH REVERSIBLE CURRENT

Allan C. Halter, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application June 1, 1951, Serial No. 229,299
4 Claims. (Cl. 318—142)



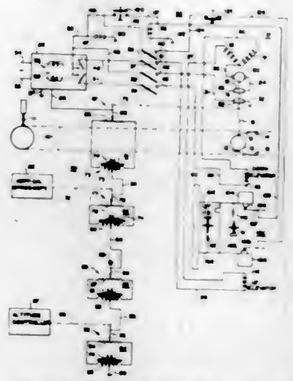
1. In a system for maintaining an operating condition of a dynamoelectric machine substantially constant at a predetermined value, the combination of a first source for supplying current to said machine, means for reversing the direction of current flow in said machine, first electric valve means having a first anode, a first cathode and a first control grid, second electric valve means having a second anode, a second cathode and a second control grid, a source of unidirectional energizing voltage, means connecting the second said source to said first and said second valve means including a connection of negligible impedance between the second said source and said cathodes, a first resistor connected in series with said first anode and said source of unidirectional voltage, a second resistor and a third resistor serially connected with each other between said second anode and said source of unidirectional voltage, a first terminal between said first resistor and said first anode, a second terminal between said second and said third resistors, control means connected to said first and said second terminals to be energized in dependence upon the polarity and magnitude of the potential difference between said first and said second terminals for controlling the flow of current from said first source to said machine, means connected to said machine and to said second grid for varying the potential of said second terminal in response to variations in said operating condition from said predetermined value while maintaining the potential of said first terminal at a constant value, and limiting means connected to said machine and to said first and second valve means for abruptly decreasing the potential of one of said terminals when said machine current reaches a predetermined maximum value, the potential of said first terminal being abruptly decreased when said current reaches said maximum value of one polarity and the potential of said second terminal being abruptly decreased when said current reaches said maximum value of the other polarity, whereby when the potential of said first terminal is decreased by said limiting means the voltage drop across said third resistor causes the potential of said first terminal to be lower than the potential of said second terminal independently of the state of conductivity of said second valve means.

2,659,041

AUTOMATIC STEERING MECHANISMS

Robert J. Kutzler, St. Louis Park, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application August 25, 1952, Serial No. 306,189
12 Claims. (Cl. 318—489)



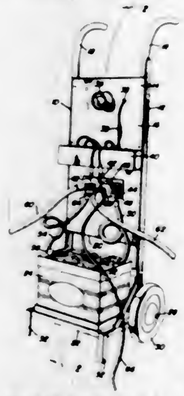
1. In a steering mechanism for a dirigible craft having a control surface for changing craft attitude about an axis, a servomotor, control means for operatively engaging said servomotor and control surface, an accelerometer responsive to vertical acceleration of said craft, means operated by said accelerometer in response to a predetermined magnitude of acceleration for causing said control means to disengage said servomotor and control surface, means for energizing said servomotor, and means in said accelerometer operated during energization of said servomotor for decreasing the magnitude of acceleration at which disengagement of said servomotor and control surface occurs.

2,659,042

BOOSTER BATTERY CARTING AND EMERGENCY SERVICING EQUIPMENT

Emil W. Anderson and Virgil D. Anderson, Rugby, N. Dak.

Application May 12, 1950, Serial No. 161,578
1 Claim. (Cl. 320—2)



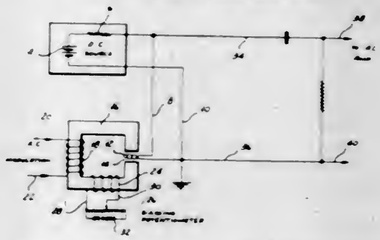
For use by a single attendant, a self-contained auxiliary source of electrical energy for connection with an internal combustion engine starter motor comprising a manually maneuverable portable support, said support including a platform, a battery seated on said platform, a conductive mounting plate carried by said support, a solenoid starter switch carried by said mounting plate in electrically grounded relation, a first conductive cable connected at opposite ends to a first terminal post of said battery and said mounting plate to electrically ground said battery to said mounting plate, a second conductive cable having opposite ends connected to a second terminal post of said battery and to said solenoid switch, a third conductive cable having one end operatively connected with said first conductive cable, the opposite end of said third conductive cable being adapted to be operatively connected to a starter motor, a fourth conductive cable having one end connected to said solenoid switch, the opposite end of said fourth conductive cable being adapted to be operatively connected to the starter motor to form a complete electrical circuit, a relatively long double conductor cable electrically connected at one end to said solenoid switch, a switch electrically connected to the opposite end of said double conductor cable for selectively electrically connecting conductors of said double conductor cable to actuate said solenoid switch whereby an electrical circuit between said battery and a starter motor may be controlled from a remote point.

2,659,043

APPARATUS FOR CONVERTING DIRECT CURRENT INTO ALTERNATING CURRENT

James E. Taylor, New York, N. Y., assignor to The Norden Laboratories Corporation, White Plains, N. Y., a corporation of Connecticut

Application October 1, 1949, Serial No. 119,050
12 Claims. (Cl. 321—45)



1. Apparatus for converting direct current into alternating current, including in combination a magnetic circuit, a bismuth conductor positioned in said magnetic circuit, circuit means including a voltage dropping resistor for impressing a unidirectional potential across said bismuth conductor, alternating means for modulating the magnetic flux flowing through said magnetic circuit whereby to vary the resistance of said bismuth conductor, and a pair of conductors connected across the bismuth conductor to remove the desired alternating current.

2,659,044

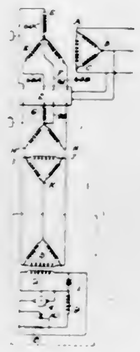
ELECTRICAL APPARATUS

Charles I. MacNeil, Shada, Cap Haitien, Haiti, West Indies, assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application April 28, 1949, Serial No. 90,217
9 Claims. (Cl. 322—24)

1. In combination, a generator including polyphase stationary armature windings and a rotat-

ing field winding, a dynamo-electric machine including polyphase stationary field windings and a rotating armature winding, means for rotating said rotating field and armature windings at the same speed and in inductive relation to the respective stator windings of said generator and dynamo-electric machine, means for electrically connecting said rotating windings, prime mover means for driving said rotating means at a variable speed, means for energizing the stator wind-



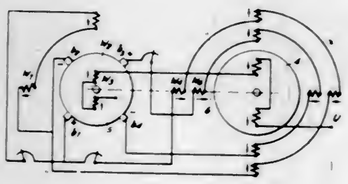
ings of said dynamo-electric machine at a constant frequency independent of the speed of rotation of said rotating windings so as to induce through said rotating field windings a constant frequency in the stator windings of said generator upon a change in the driven speed of said rotating windings, and means independent of said frequency energizing means for maintaining a substantially constant output voltage from said generator.

2,659,045

SELF-REGULATING ALTERNATING CURRENT GENERATOR WITH SELF-EXCITED EXCITER

Emil Rona, Ingolstadt, Germany

Application November 25, 1952, Serial No. 322,416
Claims priority, application Germany November 26, 1951
8 Claims. (Cl. 322—27)



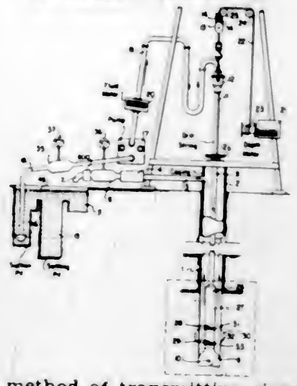
1. An alternating current generator comprising more than two poles, subdivided exciting windings and an exciter whose armature winding is additionally traversed by the load current of the generator, said exciter having more than two poles of which not more than two successive poles are wound while the rest of the poles are not wound, two successive no-load brushes associated to the wound poles and supplying the no-load current for the generator and the exciter, and load brushes supplying the additional exciting current for operation under load.

2,659,046

GEOPHYSICAL EXPLORATION USING RADIOACTIVE MATERIAL

Jan Jacob Arps, Tulsa, Okla.

Application October 19, 1948, Serial No. 55,301
27 Claims. (Cl. 324—1)



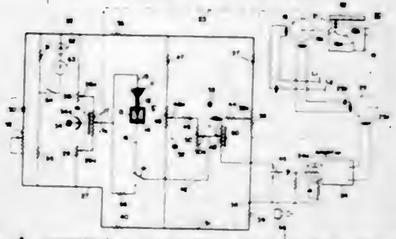
1. The method of transmitting signals to the surface of the earth from within a bore hole extending into the earth which comprises: circulating a stream of carrier fluid into and out of the bore hole; introducing a detectable tracer signal into the said fluid stream within the bore hole; detecting the thus introduced tracer signal in the said fluid stream arriving at the surface; and compensating for changes in said signal resulting from variations in the rate of flow of the said fluid.

2,659,047

CURRENT-MEASURING SYSTEM

Robert H. Cherry, Glenside, Albert J. Williams, Jr., and Raymond E. Tarpley, Philadelphia, and Will McAdam, Ambler, Pa., assignors to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 8, 1950, Serial No. 148,344
16 Claims. (Cl. 324—31)



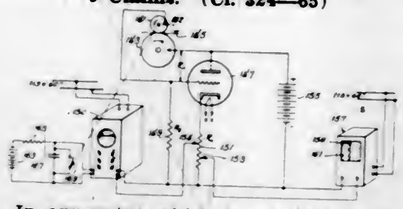
12. A current-measuring system for chemical analyses in which the current flowing through a solution in a cell with a changing voltage applied thereto varies in accord with characteristics of said solution, comprising a single source of current, a potentiometer included in a branch of said network for applying across said cell a potential difference, means for gradually changing said potential difference from one value to another, the current path of said cell including therein a resistor for developing in a measuring circuit a potential difference and a portion of a slidewire for developing in said measuring circuit an opposing potential difference, said slidewire as a whole being connected across said source of current, and means including a detector responsive to the difference between said potential differences for adjusting said slidewire to reduce said difference to zero.

2,659,048

INDICATING AND RECORDING EQUIPMENT

Lowell W. Zabel and Robert W. Schmidt, Neenah, and Ralph H. Caston, Appleton, Wis., assignors to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin

Application February 3, 1948, Serial No. 5,986
9 Claims. (Cl. 324—65)



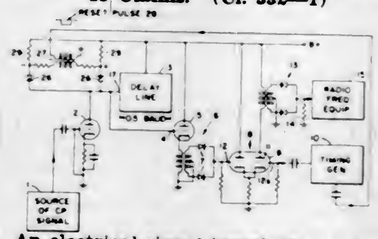
1. In apparatus which is operable to provide a continuous indication of variations in resistance across the width of a moving web or sheet; electrode means which moves progressively across the web or sheet under test in repetitive, cyclic manner during the use of said apparatus, while in contact with a segment of said web or sheet; resistance responsive means connected to said electrode means and operable to provide a voltage which varies with variation in the resistance of the segment of the web or sheet which is contacted by said electrode means at any particular instant during the use of said apparatus; a cathode ray oscilloscope having one pair of deflection plates connected to be energized in response to said voltage, and a second pair of deflection plates disposed at right angles to said first mentioned pair; and a sweep voltage generator, which operates in synchronism with the repetitive cycle of said electrode means, connected to said second pair of deflection plates.

2,659,049

ELECTRICAL SIGNAL TRANSLATING SYSTEM

Donald D. Grieg, North Caldwell, and Arnold M. Levine, River Edge, N. J., and Charles L. Estes, Scottsdale, Ariz., assignors to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware

Application January 9, 1953, Serial No. 330,571
15 Claims. (Cl. 332—1)



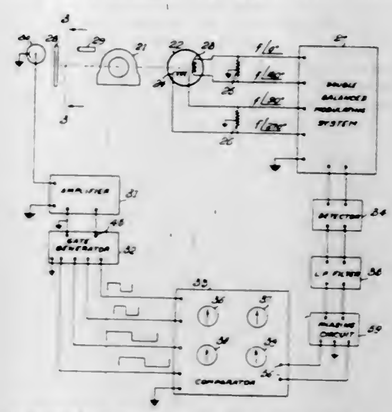
1. An electrical signal translating system comprising a source of code signals of a given type including a plurality of time sequence pulse code groups means coupled to said source for producing an intermediate code signal having digit pulses of varying amplitudes dependent upon the pulse positions of an input pulse code signal, a timing generator for producing pulses of a given amplitude, mixer means coupled to the output of the intermediate signal producing means and said timing generator for combining algebraically the pulses therefrom, whereby the output of said mixer means comprises code signals of a second type corresponding to the intelligence of the code signal of said first type.

2,659,050

ALIGNMENT INDICATOR

John F. Honey, Menlo Park, Calif., assignor to the United States of America as represented by the Secretary of the Army

Application April 29, 1952, Serial No. 285,031
9 Claims. (Cl. 332—45)



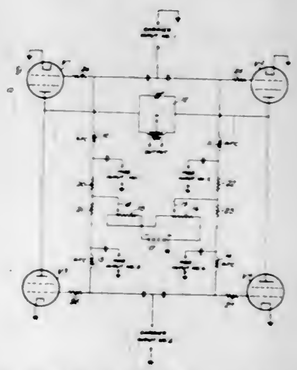
1. Apparatus for indicating the state of adjustment of a single side band modulating system comprising: means for generating four signal voltages of the same frequency but displaced in phase by 90 degrees with respect to each other; means for applying said voltages to the modulating system to be tested; means for detecting the output of the modulating system; means for generating a square wave of the same frequency and phase as one of said four voltages; and means for comparing the phase and frequency of the detected output of the modulating system with that of said square wave, the coincidence of phase and frequency of the detected output and said square wave being an indication of the presence of carrier in the output of said modulating system.

2,659,051

CARRIER INSERTION

John F. Honey, Menlo Park, Calif., assignor to the United States of America as represented by the Secretary of the Army

Application April 29, 1952, Serial No. 285,032
5 Claims. (Cl. 332—45)



1. In a single sideband modulating system which comprises two balanced modulators of two tubes each, means for injecting carrier into the

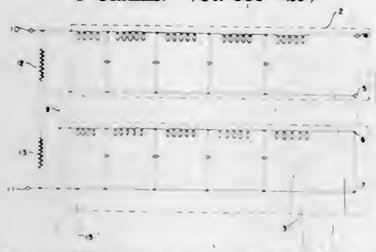
output, comprising: means for increasing the direct potential of one electrode of one tube in each modulator and means for simultaneously decreasing the direct potential of one electrode of each of the remaining two tubes.

2,659,052

TRANSMISSION LINE DELAY NETWORK

Leon Bess, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application September 14, 1945, Serial No. 616,383
5 Claims. (Cl. 333—29)



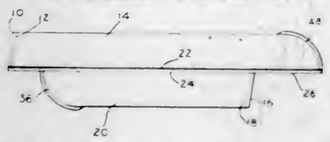
5. In combination, a pair of delay lines having equal delay characteristics and equal characteristic impedances, each of said lines having a pair of input terminals and a pair of output terminals, means connecting said input terminals in series, one of said lines having its output terminals open-circuited, the other of said lines having its output terminals short-circuited, and a resistance having a value equal to the sum of the characteristic impedances of both said lines connected in parallel with said input terminals.

2,659,053

ADJUSTABLE DELAY LINE

Sven J. Johnson, Higganum, Conn., assignor to Andersen Laboratories, Inc., West Hartford, Conn., a corporation of Connecticut

Application July 8, 1952, Serial No. 297,789
12 Claims. (Cl. 333—30)



1. An adjustable ultrasonic delay line comprising a pair of side by side bars formed of material acoustically suitable for conducting sound in the ultrasonic range, said bars being formed with complementary parallel mating surfaces, an unctuous material between the mating surfaces, a transmitting crystal affixed to one end of one bar, and a receiving crystal affixed to the opposite end of the other bar, said crystals being substantially parallel and inclined at a small angle toward the mating surfaces of the bars.

2,659,054

TRANSFORMER FOR CONNECTING A WAVE GUIDE TO A COAXIAL LINE

Andrew Alford, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War

Application April 9, 1946, Serial No. 660,601
5 Claims. (Cl. 333—34)

1. A transformer for matching a coaxial line having a first characteristic impedance to a rectangular waveguide having a second characteristic impedance, said transformer comprising a waveguide portion having a rectangular cross-section, said waveguide portion having a length of at least one wavelength and a width and depth at one end thereof equal respectively to the width and depth of said rectangular waveguide, the width of said waveguide portion being symmetrically tapered to provide a width at the other end thereof which is less than the width of said rectangular waveguide, first and second identical approximately right triangular members each having a first leg which is approximately one



wavelength at the operating frequency and a second leg which is less than one-half the depth of said rectangular waveguide, said first legs attached respectively to the upper and lower wide walls respectively of said waveguide portion, said first legs being in coincidence with the respective center lines of said wide walls and said second legs being in coincidence with said other end of said waveguide portion, said second legs lying on a line parallel to the narrow walls of said waveguide portion, said waveguide portion being connected to said rectangular waveguide at said one end thereof, and said coaxial line being connected to said first and second members.

2,659,055

DIELECTRIC WAVE GUIDE TO COAXIAL LINE JUNCTION

Seymour B. Cohn, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War

Application May 24, 1946, Serial No. 672,017
9 Claims. (Cl. 333—35)



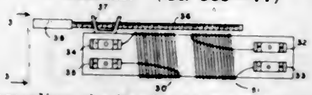
1. An ultra-high frequency coupling device comprising: a wave guide including a rectangular first section having a length of substantially one-quarter wavelength at the operating frequency and having one end thereof closed, said first section having a given internal cross-section, and a rectangular second section having a length of greater than one-quarter wavelength at the operating frequency, and having one end thereof joined to the other end of said first section, at least a portion of said second section having an internal cross-section which is appreciably less than said given cross-section, said portion being adjacent to said first section and having at least a predetermined length, said predetermined length being substantially one-quarter wavelength at the operating frequency; a coaxial line coupled to said wave guide at the junction of said first and second sections, with the inner and outer conductors respectively of said line connected to the opposite wide walls of said first and second sections.

2,659,056

COUPLING DEVICE

Walter J. Stroh, Franklin Park, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application June 28, 1951, Serial No. 233,969
2 Claims. (Cl. 333—77)



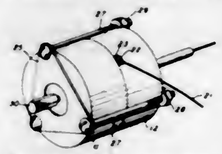
1. A coupling device for a wave-signal receiver and the like comprising: a tubular coil form; a first winding wound on said coil form; a second winding wound on said coil form axially spaced from and inductively coupled to said first winding; at least one terminal clip of U-shaped configuration, secured at its bight end to said coil form, and having apertured extending arms substantially aligned axially of said windings; and a metallic, threaded member having a maximum transverse dimension small relative to the radius of said coil form journaled in the apertures of said arms and supported by said terminal clip for movement axially of said windings to introduce a component of capacitive coupling between said windings determined by the position of said member.

2,659,057

INDUCTANCE COIL

Victor E. Legg, Maplewood, and Conrad D. Owens, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 13, 1950, Serial No. 184,602
3 Claims. (Cl. 336—15)



1. An inductance coil comprising an enclosed cylindrical casing of a ferrite material, said casing having apertures at both ends along the axis thereof and an aperture through one side thereof, a single rotatable core of a ferrite material axially in said casing between the ends thereof, a spacer member rotatably positioning said core closely adjacent each of said ends and determining air-gaps between said core and said ends, a spindle secured to said core and rotatable therewith, and a winding on said spindle, said core and said winding substantially completely filling said cylindrical casing, one end of said winding extending through one of said end apertures and the other end of said winding extending through said side aperture whereby the inductance of said winding may be varied by pulling said other end to rotate said core and reduce the number of turns of said winding on said spindle, the portion of said winding removed from said spindle being brought outside of said casing.

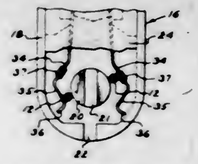
2,659,058

FLUORESCENT LIGHT SOCKET

Norman C. Russell, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application February 9, 1951, Serial No. 210,261
2 Claims. (Cl. 339—53)

1. A connector socket for an electric lamp having a pair of terminal pins extending from one end thereof in spaced and parallel relation to each other comprising a hollow base member of insulating material having an opening in one face thereof and having a cylindrical post extending into said opening to form an annular slot surrounding the post in concentric relation thereto, said one face of the hollow member having a slot intersecting said annular slot and extending from one edge of the member and diametrically through said post for guiding the pair of pins on said lamp for movement in one direction into the socket to a position with the pins on opposite sides of the post, whereby the lamp may be rotated and the pins revolved about the post to an operative position, a pair of metal contact springs mounted in the hollow base member, each of said springs having a pair of obliquely disposed arm portions forming a V-shaped notch, said springs being arranged with the V-shaped notches on opposite sides of the post and the slot therethrough and stressed for movement into close proximity to said post and in the path of



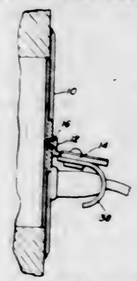
movement of the terminal pins and with the apexes of the notches disposed diametrically opposite each other and forming seats in the springs adapted to engage the terminal pins in response to the revolution of the terminal pins to said operative position and to yieldably hold the pins against turning movement, a plurality of the arms of said contact springs having apertures formed therein adjacent to the apexes of said V-shaped notches, and insulating members secured to said arms in the apertures thereof and engageable with the terminal pins as the lamp is rotated for insulating one of the pins from the contact spring for a predetermined portion of the arcuate movement of the pin, said insulating members being spaced from the apexes of said V-shaped notches and the seats in the springs a distance sufficient to allow the pins to move into contact with the seats and establish an electrical connection with the contact springs when the pins have been rotated into operative position in alignment with the seats of the contact springs.

2,659,059

RETAINER FOR ELECTRICAL ATTACHMENT PLUGS

Kenneth M. Johnson, Ashland, Ky.

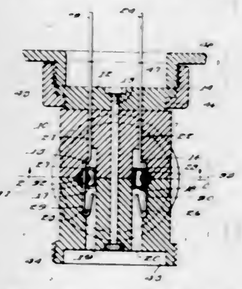
Application October 20, 1952, Serial No. 315,663
1 Claim. (Cl. 339—75)



A plug retainer adapted to be secured against the face plate of a receptacle outlet comprising

an angularly upwardly extending support member having a vertically extending flange at one end thereof, an aperture through said flange through which a securing screw of a face plate is adapted to extend, a pair of spaced tongues on said support member, an elongated slot in said support member between said tongues and extending parallel to said tongues, a retaining member having arcuate bifurcated jaws, a pair of spaced grooves in said retaining member, said tongues being slidably received in said grooves, and a fastener extending through said slot securing said retaining member to said support member in an adjustable relationship of said retaining member relative to said support member.

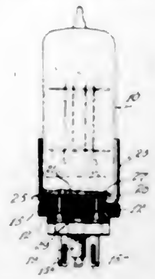
2,659,060
MULTIPLE ELECTRIC PLUG TAP WITH MEANS TO SECURE ADDITIONAL TAPS THERETO
David B. Cohane, Flushing, N. Y.
Application January 31, 1951, Serial No. 208,832
1 Claim. (Cl. 339—76)



A plug having multiple faces for electric fixture cords formed of two similarly shaped sections, a mounting disc having an enlarged annular flange in engagement with one face of said plug, an externally threaded rim surrounding the outer faces of the said plug, a bolt extending through said sections and mounting disc to retain the same in fixed relation to each other, a collar having an externally threaded portion and an internal flange, the collar being mounted on the mounting disc so that the flange of the collar will engage the flange of the disc whereby the collar is rotationally mounted on said mounting disc, prongs extending outwardly of the plug within the collar mounted on said disc, prong receiving sockets in the other faces of said plug, electric contacts in said plug and positioned to engage prongs inserted in said sockets and the said collar adapted to be mounted on the threaded external rim of a similarly formed plug to retain the two plugs in fixed relation to each other.

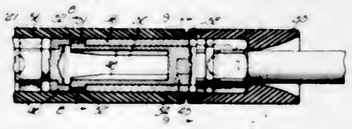
2,659,061
ADAPTER FOR MINIATURE TUBES
Frank D. Mirabella, Staten Island, N. Y.
Application August 7, 1952, Serial No. 303,071
1 Claim. (Cl. 339—93)

The combination with a miniature radio tube having multiple prongs non-symmetrically projecting from the bottom thereof, of a socket for said tube, and a one-piece adapter of the character described, comprising a synthetic resinous material of low electric loss formed to provide a disk having apertures corresponding in number to the prongs of said tube, said prongs extending thru said apertures with a rather snug fit said disk thereby functioning to align said prongs and as a base for said tube, said adapter further comprising a pin extending centrally and normally from one face of said disk and having a length greater than the length of said prongs and fitting into a central opening in said socket,



said adapter being soft enough so that it functions as a cushioning device or shock absorber and to reduce microphonic noises in the tube, whereby to improve the electrical performance and the life of the tube.

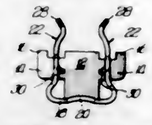
2,659,062
DETACHABLE COUPLING FOR ELECTRICAL CABLES
Otto S. Tibbetts, Chicago, Ill.
Application May 3, 1950, Serial No. 159,764
4 Claims. (Cl. 339—211)



1. An electrically conductive coupling for heavy current conducting cables which comprises, a female coupling member including a polygonal body having a concentric cylindrical bore of predetermined depth, said body having at the innermost extremity of its said bore opposed rectangular holes communicating with said bore, a male coupling member comprising a polygonal body having a cylindrical plug portion snugly receivable within the cylindrical bore of said female body member, said plug portion having forwardly extending prongs which constitute cylindrical continuations of said plug portion, said prongs being made of springable electrically conductive material with a normal disposition to effect wiping engagement against the internal bore surface of the female body member when inserted thereinto, and rectangular lugs at the forward extremities of said prongs for reception within the opposed rectangular holes of said female coupling member.

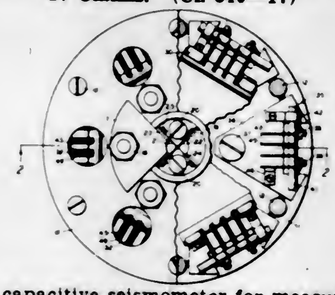
2,659,063
FUSE CLIP
George L. Webb, Logansport, Ind., and Eugene Loro, Lancaster, Ohio, assignors to Essex Wire Corporation, Logansport, Ind., a corporation of Michigan
Application October 11, 1951, Serial No. 250,831
7 Claims. (Cl. 339—253)

1. A fuse clip comprising a base portion, a pair of independent opposed fingers extending from said base portion, and an independent extension projecting from said base portion in the same direction as said fingers, said extension having abutment portions adapted to be engaged by sub-



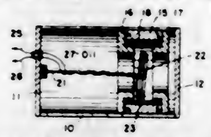
stantially the midpoint of each of said fingers to limit lateral deflection of said fingers.

2,659,064
ROTATIONAL SEISMOMETER
Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 19, 1949, Serial No. 111,282
17 Claims. (Cl. 340—17)



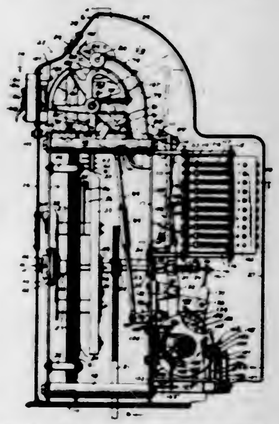
1. A capacitive seismometer for measuring the rotational component of seismic waves comprising, in combination, a casing, a suspended element mounted for rotation with respect to said casing, means biasing said suspended element to a predetermined angular position and preventing axial or transverse displacement thereof with respect to said casing, a condenser element mounted on said casing, and a condenser element mounted on said suspended element whereby relative angular movement between the suspended element and casing produces a change in the capacitance between said condenser elements which is representative of said angular movement.

2,659,065
SEISMOMETER
Ralph L. Cordell, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application August 11, 1950, Serial No. 178,856
10 Claims. (Cl. 340—17)



1. A seismometer comprising a housing, a magnetic structure within said housing including a permanent magnet and pole pieces associated therewith, said pole pieces having faces forming at least one annular air gap, the plane of which gap is substantially vertical and across which gap the magnetic field is cylindrically symmetrical about a horizontal axis, a mass, elastic means attached to at least one end of said housing and extending generally parallel to said axis for supporting said mass from said housing generally coaxially within said gap but unsymmetrically positioned relative thereto due to the gravitational pull on said mass, and a coil enclosing at least a portion of the flux in said structure which crosses said gap, whereby movements of said mass in said gap alter the flux threading said coil.

2,659,066
INDICATOR DEVICE
Laurence R. Sayer, San Leandro, Calif.
Application March 3, 1951, Serial No. 213,739
7 Claims. (Cl. 340—188)

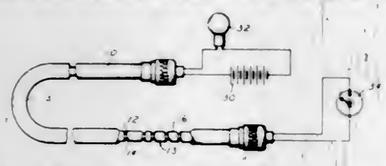


4. In combination with a movable element which is disposable in different fixed sensed positions in accordance with variable operative factors of a machine, an indicator means comprising a rotatable wheel providing thereon the numerals zero to nine inclusive in their order for selective display at a predetermined viewing point by reason of a rotative adjustment of the wheel, an arm member swingable about a fixed axis and mechanically associated with the wheel for effecting its rotative adjustment by rocking movements thereof to variably display said numerals at said viewing point, a multiple switch for setting to selectively close thereat circuits corresponding to the different said numerals in accordance with settings of the element, means operative to swing said arm member to rotate said wheel beyond the position for its display of the numeral nine at said viewing point, spring-pressed normally withdrawn stop members disposable to limit the return movement of the arm member, means for closing the switch circuit corresponding to the sensed positioning of the movable element, and means of the closed circuit operative to effect the release of the corresponding said stop member for the set display at the viewing point of the wheel numeral corresponding to the set position of the sensed element.

2,659,067
FIRE DETECTION SYSTEM
Melville F. Peters, East Orange, N. J., assignor, by mesne assignments, to Samuel Scrivener, Jr., trustee of the Petcar Trust
Original application May 2, 1949, Serial No. 90,881, now Patent No. 2,586,252, dated February 19, 1952. Divided and this application January 15, 1952, Serial No. 266,563
The portion of the term of the patent subsequent to February 19, 1969, has been disclaimed
3 Claims. (Cl. 340—227)

1. A system for indicating the existence of a predetermined abnormal high temperature com-

prising a readily bendable cable-like element of indefinite continuous length comprising a bendable tubing element formed of material of relatively high heat conductivity, a unitary assembly disposed within the tubing element and being in heat-transfer relation thereto but being separate therefrom and comprising two electrically conductive uninsulated wires which are substantially co-extensive in length with the tubing element and are spaced therefrom and from each other throughout their lengths, and a member formed of a material which is substantially nonconductive to electricity at normal lower temperatures and which becomes conductive to electricity at abnormal higher temperatures surrounding and adhered to said wires and which maintains them in closely spaced relation to each other and tightly engages the interior surface



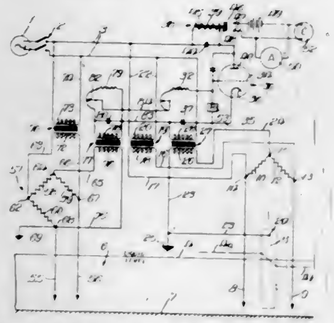
of the tubing element to provide an electrically conductive path between the wires in substantially instantaneous response to abnormal higher ambient temperatures to which the exterior of the tubing element may be subjected, while electrically insulating the wires from each other at normal lower temperatures, a source of electric energy and an indicating means electrically connected to each other and to said wires at one end of said element whereby the existence of a pre-determined high ambient temperature at any location along the length of the cable-like element will cause the temperature responsive member thereof to establish an electrically conductive path between the wires at said location to complete a circuit through the temperature responsive member, the wires, the source of electric energy and the indicating means to energize the indicating means.

2,659,068

SYSTEM RESPONSIVE TO LIQUID LEVEL

Arleigh R. Erickson and Walter P. Johnson, Aurora, Ill.

Application November 8, 1949, Serial No. 126,208
3 Claims. (Cl. 340—244)



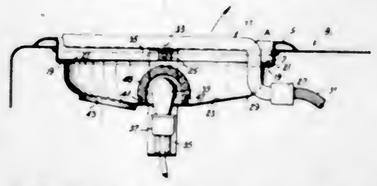
1. Means responsive to differences in liquid level upon opposite sides of a screen in a water channel comprising a pair of electrodes extending downwardly into the liquid in the channel one on each side of the screen, a fixed resistance connecting the upper ends of said electrodes, means for impressing a difference of electrical potential upon said electrodes and upon the connected ends of said resistance, a bridge circuit connected at one end to said screen and at the other end to an intermediate point on said resistance whereby upon equal levels being maintained at said electrodes no difference in potential will appear at the ends of the bridge circuit, and an indicating means activated upon a difference of potential being impressed upon said bridge circuit.

2,659,069

OPERATING SIGNAL FOR ELECTRIC RANGES

Howard R. Kinsella, St. Louis, Mo., assignor to Magic Chef, Inc., a corporation of New Jersey

Application September 12, 1951, Serial No. 246,297
5 Claims. (Cl. 340—252)



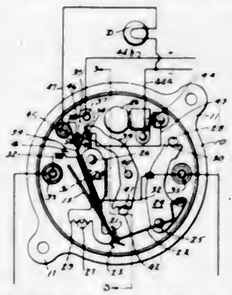
1. A flaring signal means for an electrical heating element located at a top opening of an electric range, which element is essentially flat and circular about a vertical axis; comprising a coaxial circular upwardly concave bowl effective as a drip pan located below the opening and heating element and having an interior light reflective surface, a lamp, said bowl having a lower central opening for the reception of said lamp substantially on said axis, means for supporting the lamp relative to said opening in the bowl to form a central light source within the bowl, and a protective lamp cover over the lamp and protecting said lamp against heat from said heating element, said cover being adapted to allow light flux to escape laterally from the lamp to the bowl for deflection upward through the heating element in an essentially symmetrical flare.

2,659,070

GAUGE AND WARNING LIGHT COMBINATION

Paul P. Gallo, Youngstown, Ohio, assignor of twenty-five per cent to E. A. Renner, Youngstown, Ohio

Application September 4, 1951, Serial No. 245,061
3 Claims. (Cl. 340—266)



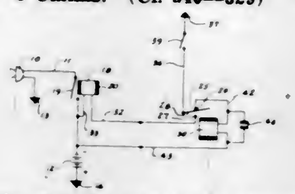
1. A gauge including a casing member, a dial on the casing member having indicia thereon, a hand cooperating with the dial, a substantially U-shaped bimetallic element supported at one end of one leg thereof on the casing member, the other leg of the bimetallic element being connected at its outer end to said indicating hand to impart movement thereto, a heating coil about said last mentioned leg of the bimetallic element adapted to be energized in accordance with the condition to be indicated, a contact mounted on the casing member near the inner end of the bimetallic element, said bimetallic element having a contact thereon at its inner end adapted to cooperate with said first mentioned contact, an incandescent lamp mounted within the casing member, and a circuit for energizing said lamp, said contacts being included in said circuit, the contact on said bimetallic element being moved into contact with said contact on the casing member to close said circuit and energize said lamp upon predetermined movement of said bimetallic element.

2,659,071

AUDIBLE SIGNAL APPARATUS

James Dohm, Trail, British Columbia, Canada

Application March 5, 1951, Serial No. 213,837
5 Claims. (Cl. 340—329)



2. Audible signal apparatus comprising an electrically-operated audible signal, an electric circuit for connecting the signal to a source of electrical power, a control switch in the circuit, a solenoid, a circuit for connecting the solenoid to the power source, a condenser bridging the coil of the solenoid, a switch consisting of two spaced contacts and an armature therebetween for the solenoid, one contact and the armature being in the audible signal circuit and the other contact being in the solenoid circuit, said armature normally engaging the solenoid circuit contact and being moved into engagement with the other contact by the energized solenoid when the control switch is closed to cause the signal to operate, and said movement of the armature de-energizing the solenoid to cut off the signal.

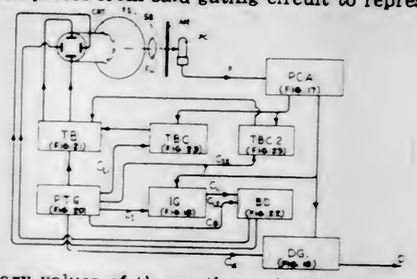
2,659,072

DATA TRANSMISSION SYSTEM FOR DIGITAL CALCULATING MACHINES OR THE LIKE

John F. Coales, Radlett, William Sidney Elliott, Boreham Wood, Norman Douglas Hill, Watford, Samuel Edwin Hersom, Thorpe Bay, and John Tindale, Edgware, England

Application January 13, 1949, Serial No. 70,764
10 Claims. (Cl. 340—354)

2. In a digital data transmission system, the combination of a freely movable element carrying code markings indicative of its position relative to a datum position according to a predetermined mathematical function, said code markings being arranged in columns located side by said in the direction of motion of said element and the code markings in each column representing the numerical value of the function at the related location on the element in the binary system of numbers, a relatively fixed scanning device for continuously scanning the code markings in the direction of the length of the columns at a predetermined scanning location, means responding to said scanning device for producing a train of pulses corresponding to the binary number represented by the code markings in the column being scanned, a clock pulse generator, means for feeding selected regularly recurrent pulses from said generator to said scanning device for determining the instants of commencement of successive scanning operations, means for feeding all of the pulses from said clock pulse generator to a gating circuit, means for feeding the train of pulses corresponding to the binary number of the column being scanned to said gating circuit to control the gating operation of the latter, means for transmitting trains of gated clock pulses from said gating circuit to represent



binary values of the mathematical function, initiating markings on said movable element for at least certain of said columns of code markings and displaced in the direction of movement of said element relative to the respective column of code markings to be scanned by said scanning device in the event that the latter is not accurately aligned with a column of code markings, and means responding to scanning of said initiator markings to effect deflection of said scanning device in the direction of movement of said element into alignment with the column of code markings disposed at the scanning location.

2,659,073

DEVICE FOR INDUCING SLEEP AND REST

Frank H. Wiesman, Mount Healthy, Ohio

Application February 26, 1952, Serial No. 273,399
6 Claims. (Cl. 340—384)



1. A device for inducing restful sleep in a subject person, which device comprises in combination, a box including a substantially flat wall, a vibratory substantially planar plate in flatwise contact upon said wall, an electric buzzer fixed upon a face of said plate free of contact with said box wall, and means accessible exteriorly of the box for varying the force of contact between the vibratory plate and the aforesaid wall of the box.

2,659,074

DOUBLE-ACTING SOLENOID FOR CHIME SIGNALS

Lowell M. Alexander and Elmer H. Bladh, Cincinnati, Ohio, assignors to Nutone, Inc., Cincinnati, Ohio, a corporation of Ohio

Application December 6, 1950, Serial No. 199,486
3 Claims. (Cl. 340—392)

1. A double and single stroke solenoid unit having a single plunger comprising, a solenoid

tube, a pair of coaxial solenoid coils disposed in tandem upon said tube, one of said coils having a greater number of windings and thereby being adapted to provide a stronger magnetic flux than the other, a solenoid plunger slidably sustained within said tube and normally having its opposite ends extended within both of said coils and arranged to move in respectively opposite directions when the said coils are energized selectively, and a pair of opposed coil springs disposed within said tube and normally engaged respectively against the opposite ends of the plunger to maintain the plunger normally in an intermediate position with respect to the solenoid coils and being adapted to be compressed respectively upon



movement of the plunger in either direction in response to energization of the respective solenoid coils, one of said springs having a greater number of coils and a greater compression range and thereby being adapted to store a greater amount of energy than the other of said springs upon being compressed, the spring having the greater number of coils being in bias with respect to the solenoid coil providing the stronger magnetic flux, whereby the plunger is returned to its intermediate position when the weaker of said solenoid coils is deenergized and is propelled beyond the intermediate position to the opposite end of the tube when the stronger of said solenoid coils is deenergized.

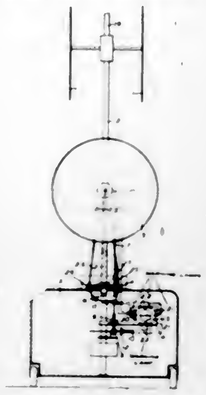
2,659,075

RADIO GROUND CONTROL EQUIPMENT FOR AIRCRAFT

Bernard F. Collins, Eastwood, Victor J. Cox, Malmesbury, and Anthony W. Martin, Thundersley, England, assignors to E. K. Cole Limited, Southend-on-Sea, England

Application June 6, 1950, Serial No. 166,406
Claims priority, application Great Britain June 15, 1949
5 Claims. (Cl. 343—6)

1. In a ground control appartus for aircraft, a direction finder comprising an aerial of the type which is manually rotatable to the direction of a distant transmitter, a direction-indicating instrument coupled to said aerial, a pencil beam radar aerial of the non-continuously rotated type said radar aerial being coupled to a radar transmitter/receiver having a cathode ray viewing screen, a vertical shaft fixed to said direction-finding aerial and to a bracket having a pivot supporting the radar aerial for vertical movement about said pivot, manually operable means for moving the vertical shaft about its axis and means for moving the radar aerial vertically about said pivot whereby the radar beam may be aimed at a distant object, a first means for indicating the angle in azimuth of both said radar aerial and said direction-finding aerial,



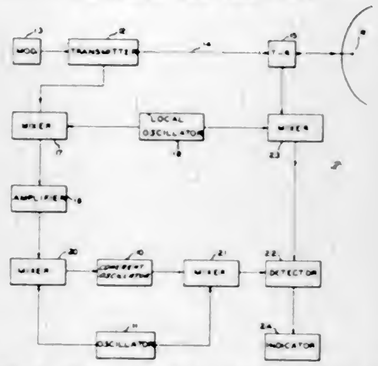
and a second indicating means for indicating the vertical angle of said radar aerial.

2,659,076

MOVING OBJECT RADIO PULSE-ECHO SYSTEM

Alfred G. Emslie, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application May 17, 1945, Serial No. 594,261
5 Claims. (Cl. 343—7.7)



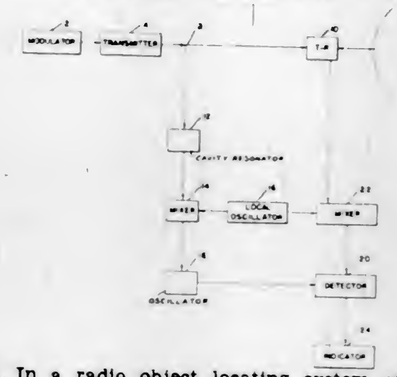
3. In a radio object-location system of the character described including a superheterodyne receiver, means for generating and transmitting short-duration, high carrier-frequency exploratory pulses of radiant energy, a frequency stable reference oscillator having a frequency less than the intermediate frequency of said receiver, means for synchronizing the phase of said reference oscillator with said transmitted exploratory pulses, a second frequency stable oscillator having a frequency equal to the difference between said intermediate frequency and the frequency of said reference oscillator, a mixer and means for applying the outputs of said reference and said second-mentioned oscillators thereto, the output of said mixer including intermediate-frequency reference oscillations, means for receiving object-returned echo-pulses, heterodyning means for reducing the carrier-frequency of said object-returned echo-pulses to the frequency of said reference oscillations, and means for combining said intermediate-carrier-frequency echo-pulses with said reference oscillations to produce video pulses.

2,659,077

MOVING TARGET RADIO PULSE ECHO SYSTEM

Alfred G. Emslie, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application June 7, 1945, Serial No. 598,159
3 Claims. (Cl. 343—7.7)



1. In a radio object locating system of the character described, means for generating and transmitting high carrier frequency exploratory pulses of radiant energy, a resonant cavity adapted to resonate at substantially the carrier frequency of said exploratory pulses, means for applying each exploratory pulse to said resonant cavity to provide as an output therefrom a pulse of radiant energy, means for reducing the carrier frequency of said pulse output from said resonant cavity to obtain a synchronizing pulse having an intermediate carrier frequency, a reference oscillation generator adapted to provide as an output, reference oscillations having a frequency substantially equal to the carrier frequency of said synchronizing pulse, means for applying said synchronizing pulse to said reference oscillation generator, a detector and means for applying as a first input thereto the output from said reference oscillation generator, means for receiving echo pulses of radiant energy, means for reducing the carrier frequency of said echo pulses to a frequency substantially equal to the carrier frequency of said synchronizing pulse, means for applying said reduced carrier frequency echo pulses as a second input to said detector, means in said detector for algebraically combining two inputs thereto to obtain a resultant oscillatory voltage, further means in said detector for obtaining the envelope of said oscillatory voltage to obtain video pulses, an indicator and means for applying to said indicator said video pulses.

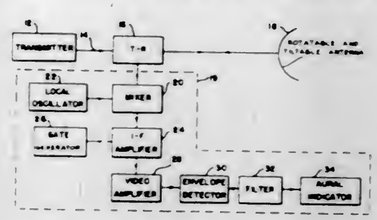
2,659,078

MOVING OBJECT PULSE ECHO DETECTION SYSTEM

Rubby Sherr, Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application October 26, 1945, Serial No. 624,906
5 Claims. (Cl. 343—7.7)

1. In a system for detecting moving objects from an aircraft moving with respect to the ground including, means for generating short duration high carrier frequency exploratory pulses of radiant energy, means for radiating said exploratory pulses toward the ground in a directional beam, means for receiving echo-pulses of radiant energy from a given area of ground a predetermined distance from the aircraft, means for deriving voltage pulses from said echo pulses, said voltage pulses having an amplitude modulation due to the angular width of said directional beam, the maximum frequency of which is determined by the angle of said directional beam with respect to the ground, means for providing an aural indication of the frequency of said amplitude modulation, means for positioning the di-



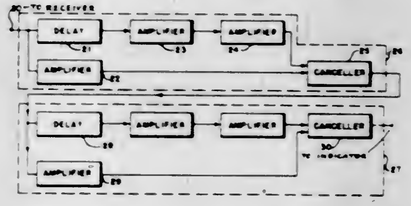
rectional beam to obtain a minimum modulation frequency, said minimum modulation frequency being manifested by an aural note of minimum pitch, whereby the center line of the directional beam is substantially coincident with the ground track of the aircraft, the presence of moving objects within the area energized by said exploratory pulses being manifested by the occurrence of a note having a pitch other than said minimum pitch.

2,659,079

MOVING TARGET RADAR SYSTEM

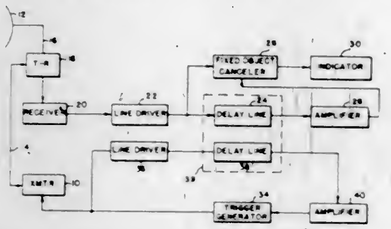
Frederic Cunningham, Jr., Belmar, N. J., assignor to the United States of America as represented by the Secretary of War

Application December 10, 1945, Serial No. 634,078
7 Claims. (Cl. 343—7.7)



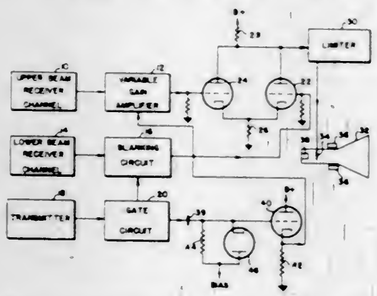
5. In a radio object locating system which transmits periodic exploratory pulses of radiant energy and which distinguishes between fixed objects and moving objects by the character of the echo signals obtained from the received echo pulses, and wherein fixed objects are evidenced by echo signals having a substantially uniform amplitude and moving objects are evidenced by echo signals having a cyclical variation in amplitude, a first means responsive to the difference in amplitude of successive pulses applied thereto for selecting pulses from moving objects, means for applying said echo signals to said selecting means for deriving output signals therefrom only in response to successive echo signals of different amplitudes from a given object, a second means responsive to the difference in amplitude of successive pulses applied thereto for selecting pulses from moving objects, and means for applying the output signals of said first selecting means to said second selecting means for deriving output signals therefrom only in response to successive output signals of different amplitudes from said given object.

2,659,080
SELF-SYNCHRONOUS MOVING TARGET INDICATION SYSTEM
Adalbert E. Benfield, Sudbury, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application January 7, 1946, Serial No. 639,647
3 Claims. (Cl. 343—7.7)



3. In a pulse-echo, moving target indication system including transmitter means and receiving means, a plurality of delay type transmission lines in close proximity with one another, one of said lines being coupled to said receiving means and being used to delay received target echo pulses taken from said receiving means in order that the delayed echo pulses may be compared with the undelayed echo pulses to provide an indication of fixed and moving targets, means for triggering said transmitter means, means for coupling the output of a second of said lines to said triggering means, means for coupling the output of said triggering means to said second line as an input thereto, and means enclosing said plurality of lines, for maintaining a minimum temperature differential between them.

2,659,081
MULTIPLE CHANNEL RADIO SYSTEM
Richard C. Allen, Carthage, Mo., and Jacob Millman, Brookline, Mass., assignors, by direct and mesne assignments, to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,073
5 Claims. (Cl. 343—17.1)



2. The combination including at least one radio pulse transmitter means, at least two radio pulse receiver channels, blanking means responsive to said transmitter means and coupled to only one of said receiver channels for blanking the output of said one channel for a given time interval, means coupled only to the other of said receiver channels for compensatorily increasing the gain thereof during the interval in which said one channel is blanked, both said channels being simultaneously operative at all times other than said given interval of time, an indicator, and means coupled to said receiver channels for applying the combined output of said channels to said indicator.

2,659,082
RADIO DIRECTION FINDER
Paul A. Pearson, Seattle, Wash., assignor to United States of America as represented by the Secretary of War
Application April 30, 1946, Serial No. 665,989
1 Claim. (Cl. 343—120)

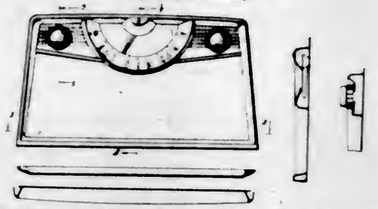


A reception system for indicating the direction of intermittent bursts of radio-frequency signals, said system comprising a lobe switching antenna having first switching means for shifting the lobe thereof between two predetermined angular positions at a rate such that said lobe is shifted a plurality of times in the interval of a burst, a receiver having its input coupled to said antenna, first and second remembering circuits each of which derives a steady direct current voltage having a magnitude proportional to the peak amplitude of an intermittent signal applied thereto, second switching means synchronized with said first switching means for selectively applying the output of said receiver to said respective first and second remembering circuits, indicator means coupled to both said first and second remembering circuits for indicating the difference between the magnitudes of the direct current voltages from said first and second remembering circuits, and discharging means coupled between said receiver and said first and second remembering circuits for dissipating the direct current voltages of both said first and second remembering circuits in response to the initiation of a received burst of signal, whereby said indicator means continuously provides an indication of the bearing of each successive burst of radio-frequency signal.

DESIGNS

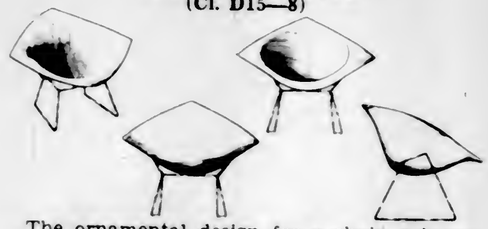
NOVEMBER 10, 1953

170,789
RADIO-PHONOGRAPH CABINET PANEL
Samuel E. Adler, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application June 4, 1953, Serial No. 25,314
Term of patent 14 years
(Cl. D56—4)



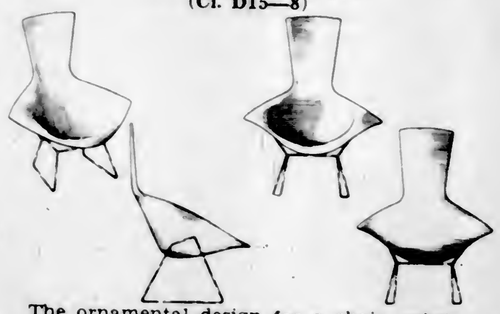
The ornamental design for a radio-phonograph cabinet panel, as shown and described.

170,790
CHAIR
Harry Bertoia, Pennsburg, Pa., assignor to Knoll Associates Inc., New York, N. Y.
Application July 23, 1952, Serial No. 20,737
Term of patent 7 years
(Cl. D15—8)



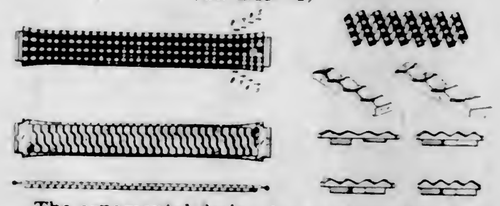
The ornamental design for a chair, substantially as shown and described.

170,791
CHAIR
Harry Bertoia, Pennsburg, Pa., assignor to Knoll Associates Inc., New York, N. Y.
Application July 23, 1952, Serial No. 20,738
Term of patent 7 years
(Cl. D15—8)



The ornamental design for a chair, substantially as shown and described.

170,792
EXPANSIBLE WRIST WATCH BRACELET
Roland F. Boehm, Short Hills, N. J., assignor to Gemex Company, Union, N. J., a corporation of New Jersey
Application July 27, 1953, Serial No. 26,154
Term of patent 7 years
(Cl. D45—4)



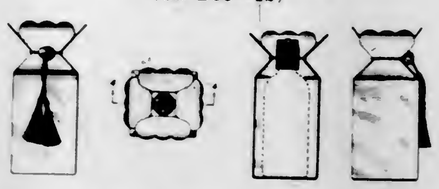
The ornamental design for an expansible wrist watch bracelet, substantially as shown and described.

170,793
ADJUSTABLE HANDLE FOR TOOLS
Fulvio De Fazi, Cleveland, Ohio
Application September 15, 1952, Serial No. 21,470
Term of patent 7 years
(Cl. D54—13)



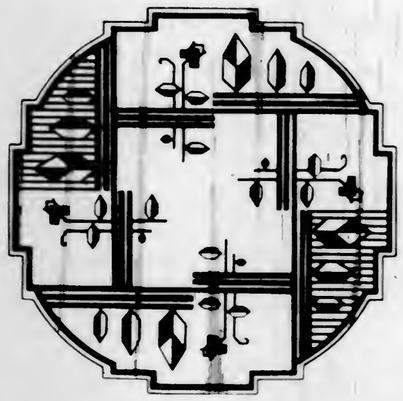
The ornamental design for an adjustable handle for tools, as shown.

170,794
COMBINED BOTTLE AND DISPLAY CARTON THEREFOR
Eric de Kolb, New York, N. Y., assignor to Helena Rubinstein, Inc., New York, N. Y., a corporation of New York
Application June 20, 1952, Serial No. 20,286
Term of patent 7 years
(Cl. D58—12)



The ornamental design for a combined bottle and display carton therefor, substantially as shown and described.

170,795
PLAQUE
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application December 12, 1952, Serial No. 22,683
Term of patent 14 years
(Cl. D44—1)



The ornamental design for a plaque, as shown and described.

170,796
COMBINED COIN HOLDER AND CLIP
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application December 12, 1952, Serial No. 22,687
Term of patent 14 years
(Cl. D17—3)



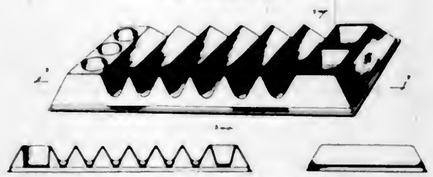
The ornamental design for a combined coin holder and clip, as shown.

170,797
ROSARY BEAD
Christy M. Del Mas, New York, N. Y.
Application August 6, 1953, Serial No. 26,329
Term of patent 14 years
(Cl. D45—16)



The ornamental design for a rosary bead, as shown and described.

170,798
TOOLHOLDER
Burton W. Dundon and Leo O. Dundon, Kalamazoo, Mich.
Application August 18, 1952, Serial No. 21,080
Term of patent 14 years
(Cl. D58—13)



The ornamental design for a toolholder, as shown and described.

170,799
CHRISTMAS TREE ORNAMENT
Astrid Glorklint, Los Angeles, Calif.
Application November 4, 1952, Serial No. 22,120
Term of patent 14 years
(Cl. D29—1)



The ornamental design for a Christmas tree ornament, substantially as shown.

170,800
SHIRT
Ray F. Greer, San Diego, Calif.
Application May 25, 1953, Serial No. 25,184
Term of patent 3½ years
(Cl. D3—25)



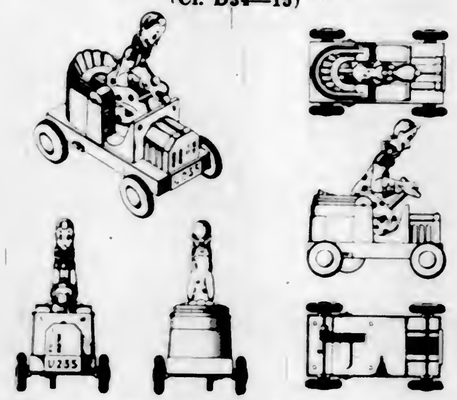
The ornamental design for a shirt, as shown.

170,801
SET OF PLAYING CARDS
Clifford Benjamin Griffiths, Sutton Coldfield, England, assignor to Porterprint Limited, Leeds, England, a British company
Application December 22, 1952, Serial No. 22,824
Claims priority, application Great Britain July 29, 1952
Term of patent 14 years
(Cl. D34—13)



The ornamental design for a set of playing cards, as shown and described.

170,802
AUTOMOTIVE TOY
Elliot Handler, Los Angeles, Calif.
Application January 30, 1953, Serial No. 23,379
Term of patent 3½ years
(Cl. D34—15)



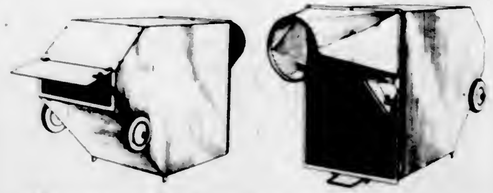
The ornamental design for an automotive toy, substantially as shown.

170,803
WALL PLAQUE OR SIMILAR ARTICLE
Martin Henfield, Long Island City, N. Y.
Application June 29, 1953, Serial No. 25,699
Term of patent 7 years
(Cl. D29—23)



The ornamental design for a wall plaque or similar article, as shown.

170,804
PORTABLE HEATER
Vernon C. Hines and Albert B. Callahan, Jr., Denver, Colo., assignors to The International Manufacturing Co., Denver, Colo., a corporation of Nevada
Application October 29, 1952, Serial No. 22,038
Term of patent 14 years
(Cl. D81—10)



The ornamental design for a portable heater, as shown.

170,805
WINDOW ACTUATOR
Robert H. Hummert, Dayton, Ohio, assignor to Standard-Thomson Corporation, Dayton, Ohio, a corporation of Delaware
Application January 26, 1953, Serial No. 23,291
Term of patent 14 years
(Cl. D10—10)



The ornamental design for a window actuator, as shown and described.

170,806
CORNER TOILET SEAT OR SIMILAR ARTICLE
Walter A. Inman, Waukegan, Ill., assignor to Waukegan Baby Seat Co. Inc., Waukegan, Ill., a corporation of Illinois
Application July 10, 1953, Serial No. 25,886
Term of patent 7 years
(Cl. D4—5)



The ornamental design for a corner toilet seat or similar article, as shown.

170,807
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,724
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,808
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,727
Term of patent 7 years
(Cl. D45—19)



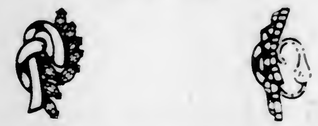
The ornamental design for a brooch or the like, substantially as shown.

170,809
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,733
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,810
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,734
Term of patent 7 years
(Cl. D45—9)



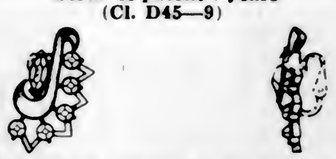
The ornamental design for an earring or the like, substantially as shown.

170,811
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,735
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,812
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,972
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,813
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,978
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,814
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,980
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,815
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,986
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,816
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,987
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,817
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,988
Term of patent 7 years
(Cl. D45—9)



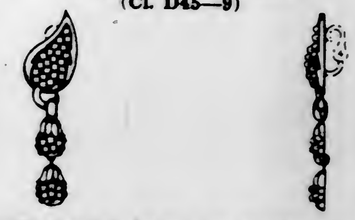
The ornamental design for an earring or the like, substantially as shown.

170,818
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,078
Term of patent 7 years
(Cl. D45—9)



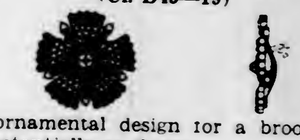
The ornamental design for an earring or the like, substantially as shown.

170,819
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,079
Term of patent 7 years
(Cl. D45—9)



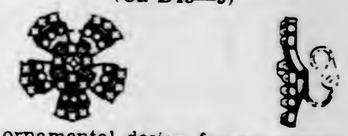
The ornamental design for an earring or the like, substantially as shown.

170,820
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,082
Term of patent 7 years
(Cl. D45—19)



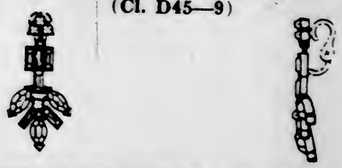
The ornamental design for a brooch or the like, substantially as shown.

170,821
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,083
Term of patent 7 years
(Cl. D45—9)



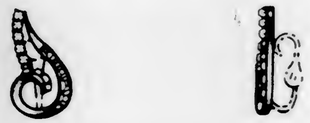
The ornamental design for an earring or the like, substantially as shown.

170,822
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,085
Term of patent 7 years
(Cl. D45—9)



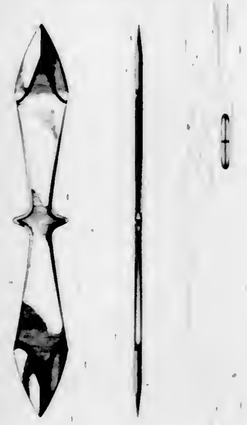
The ornamental design for an earring or the like, substantially as shown.

170,823
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,088
Term of patent 7 years
(Cl. D45—9)



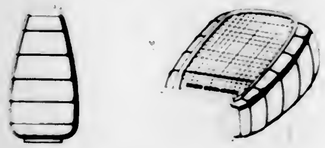
The ornamental design for an earring or the like, substantially as shown.

170,824
THROWING DAGGER
George John Kundikoff, San Pedro, Calif.
Application March 30, 1953, Serial No. 24,247
Term of patent 14 years
(Cl. D22—3)



The ornamental design for a throwing dagger, as shown.

170,825
COMBINED RAZOR AND SHAVING CREAM DISPENSER
Elmer S. Lovász, Chicago, Ill.
Application May 4, 1953, Serial No. 24,821
Term of patent 14 years
(Cl. D22—3)



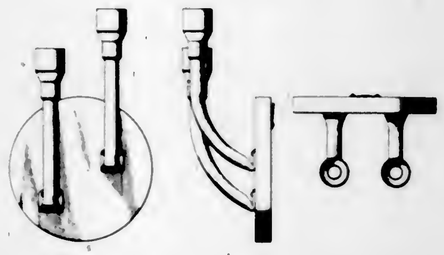
The ornamental design for a combined razor and shaving cream dispenser, substantially as shown and described.

170,826
GIRDLE
Louis Melnick, New York, N. Y., assignor to Knitcraft Foundations, Inc., New York, N. Y., a corporation
Application July 12, 1952, Serial No. 20,591
Term of patent 7 years
(Cl. D20—2)



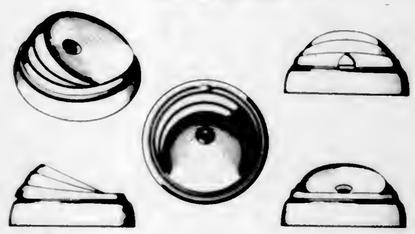
The ornamental design for a girdle, substantially as shown.

170,827
CANDLEHOLDER
Robert C. McLean, Washington, D. C.
Application May 19, 1953, Serial No. 25,110
Term of patent 7 years
(Cl. D48—2)



The ornamental design for a candleholder, as shown.

170,828
INKWELL
Alice M. Morris, Beverly Hills, and Fred L. Schaeffer, Los Angeles, Calif., assignors to Bert M. Morris Company, Los Angeles, Calif., a corporation of California
Application May 26, 1953, Serial No. 25,196
Term of patent 14 years
(Cl. D74—1)



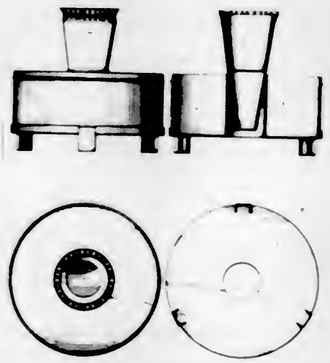
The ornamental design for an inkwell, substantially as shown.

170,829
PLASTIC SHEETING OR THE LIKE
Eliot S. Mover, Brighton, Mass., assignor to Bunny Bear Inc., Everett, Mass., a corporation of Massachusetts
Application May 12, 1953, Serial No. 24,972
Term of patent 14 years
(Cl. D92—1)



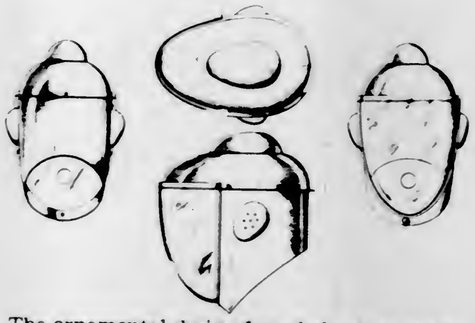
The ornamental design for plastic sheeting or the like, substantially as shown and described.

170,830
COMBINED VASE AND FRUIT BOWL
Montez Parrish, Blountstown, Fla.
Application June 20, 1952, Serial No. 20,288
Term of patent 7 years
(Cl. D44—19)



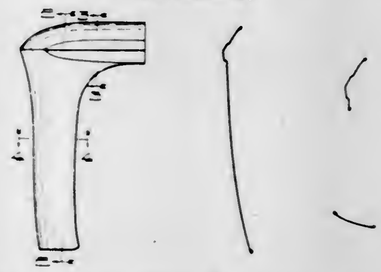
The ornamental design for a combined vase and fruit bowl, as shown.

170,831
HELMET
Louis H. Pfohl, Forest Hills, N. Y., assignor to Design Center Inc., Long Island City, N. Y., a corporation of New York
Application April 1, 1953, Serial No. 24,304
Term of patent 3½ years
(Cl. D3—13)



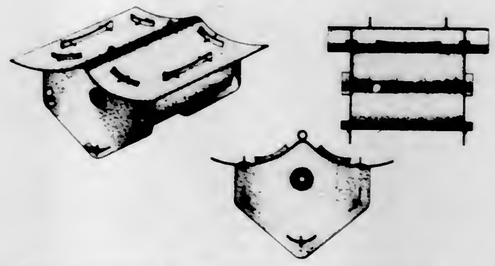
The ornamental design for a helmet, as shown.

170,832
AUTOMOBILE STONE SHIELD
Harold W. Pilkey, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 12, 1953, Serial No. 24,974
Term of patent 7 years
(Cl. D14—6)



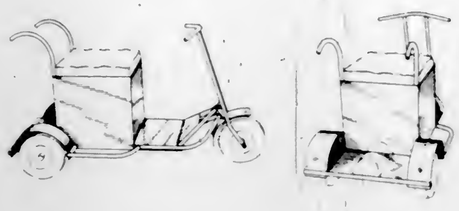
The ornamental design for an automobile stone shield, substantially as shown.

170,833
BIRDHOUSE
Stephen F. Rebora, Chicago, Ill.
Application August 31, 1953, Serial No. 26,638
Term of patent 14 years
(Cl. D31—2)



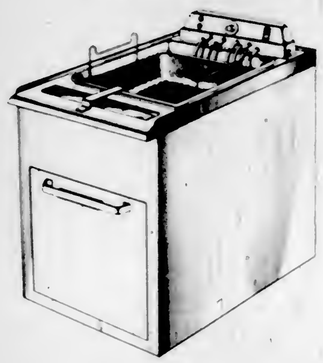
The ornamental design for a birdhouse, as shown and described.

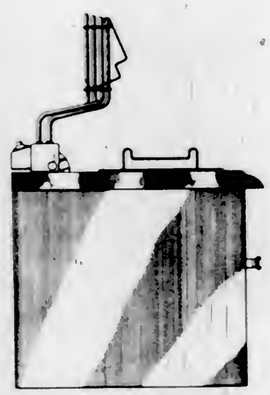
170,834
VEHICLE FOR GOLFERS AND THE LIKE
Humbert R. Rogant, Willoughby, Ohio
Application July 17, 1953, Serial No. 26,034
Term of patent 7 years
(Cl. D90—8)



The ornamental design for a vehicle for golfers and the like, substantially as shown and described.

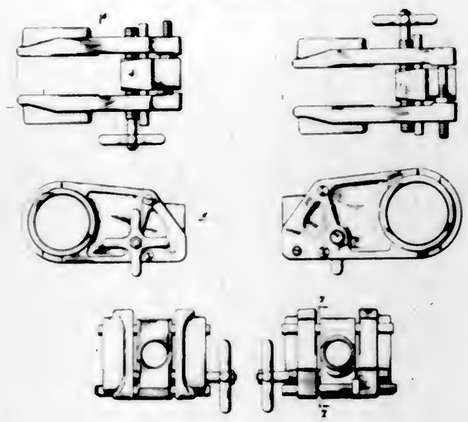
170,835
FRYER UNIT OR THE LIKE
Ray C. Sandin, Northbrook, Ill., assignor to General Electric Company, a corporation of New York
Application December 30, 1952, Serial No. 22,918
Term of patent 14 years
(Cl. D81—10)





The ornamental design for a fryer unit or the like, substantially as shown.

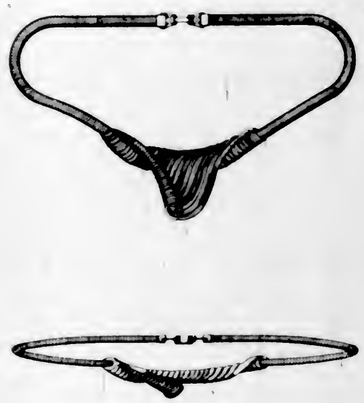
170,836
INSTRUMENT FOR LOCATING HOLES FOR DOOR LOCKS
Adolf Schoepe, Fullerton, Calif., assignor to Kwikset Locks, Inc., Anaheim, Calif., a corporation of California
Application January 26, 1953, Serial No. 23,283
Term of patent 14 years
(Cl. D54—13)





The ornamental design for an instrument for locating holes for door locks, substantially as shown.

170,837
NECKLACE OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie, New York, N. Y., a partnership consisting of Marcel Boucher and Jeanne Boucher
Application July 1, 1953, Serial No. 25,757
Term of patent 3½ years
(Cl. D45—16)



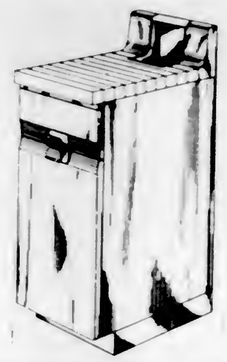
The ornamental design for a necklace or similar article, as shown.

170,838
TABLE LIGHTER
Samuel F. Speers, Providence, R. I., assignor to Evans Case Co., North Attleboro, Mass.
Application October 22, 1952, Serial No. 21,926
Term of patent 14 years
(Cl. D48—27)



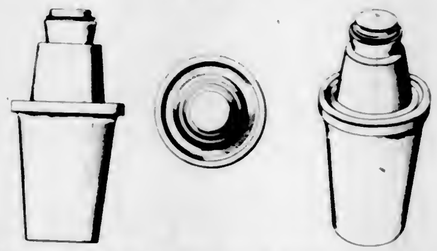
The ornamental design for a table lighter, as shown and described.

170,839
BASE CABINET
Harry R. Trout and Frederick M. Hill, Pittsburgh, Pa., assignors to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa., a corporation of Delaware
Application January 2, 1953, Serial No. 22,971
Term of patent 14 years
(Cl. D33—19)



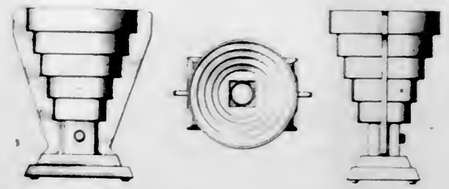
The ornamental design for a base cabinet, substantially as shown.

170,840
SHAKER
Earl S. Tupper, Upton, Mass.
Application December 24, 1952, Serial No. 22,860
Term of patent 14 years
(Cl. D2—3)



The ornamental design for a shaker, as shown.

170,841
TABLE LAMP
Jule Vigon, Los Angeles, Calif.
Application May 21, 1953, Serial No. 25,132
Term of patent 14 years
(Cl. D48—20)



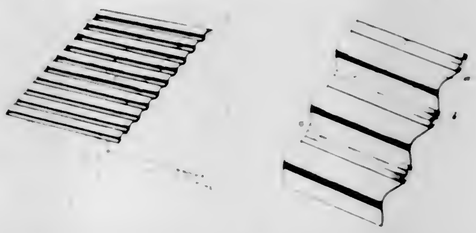
The ornamental design for a table lamp, substantially as shown.

170,842
AUTOMOBILE STONE SHIELD
Clifford C. Voss, Clawson, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 12, 1953, Serial No. 24,978
Term of patent 7 years
(Cl. D14—6)



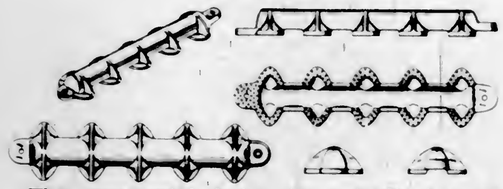
The ornamental design for an automobile stone shield, substantially as shown.

170,843
AWNING OR SIMILAR ARTICLE
Charles S. White, Dearborn, Mich.
Application June 5, 1953, Serial No. 25,338
Term of patent 14 years
(Cl. D21—6)



The ornamental design for an awning or similar article, substantially as shown and described.

170,844
TRAFFIC BAR
Grant A. Wiswell, Burlingame, Calif.
Application May 25, 1953, Serial No. 25,175
Term of patent 14 years
(Cl. D72—1)



The ornamental design for a traffic bar, as shown.

170,845
CIGARETTE HOLDER
Samuel Wolf, Brooklyn, N. Y.
Application February 13, 1953, Serial No. 23,597
Term of patent 3½ years
(Cl. D85—8)



The ornamental design for a cigarette holder, as shown.

November 17, 1953 Volume 676 Number 3

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business Oct. 30, 1953

Total number of patent applications awaiting action, 103,641. Date of oldest new application, January 5, 1953; date of oldest amended application, January 2, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	2-24-53	2-17-53	1331
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	2-18-53	2-10-53	1245
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus) Heating; Coating or Plastic Composition (part).	3-9-53	3-9-53	1916
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	2-10-53	2-10-53	1511
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-19-53	1-13-53	1355
6. SURLE, H., Carbon Chemistry (part)	1-5-53	1-2-53	2191
7. GONSALVES, J. E., Optics; Photography (part)	2-3-53	2-4-53	1776
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	3-2-53	2-27-53	1509
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	2-12-53	2-8-53	1221
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	3-2-53	3-6-53	1315
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	2-25-53	2-24-53	1188
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	2-11-53	2-10-53	1279
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	1-30-53	2-2-53	1228
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	2-17-53	2-18-53	1453
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	1-28-53	1-29-53	1720
16. LOVEWELL, N. N., Television; Telephony; Recorders	1-19-53	1-12-53	1805
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	2-12-53	2-12-53	1478
18. KURZ, J. A., Power Plants; Speed Responsive Devices	2-16-53	2-9-53	741
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-21-53	1-23-53	1115
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	2-27-53	2-25-53	1247
21. MADER, R. C., Textiles	2-6-53	2-6-53	1313
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	2-19-53	2-19-53	1031
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	2-5-53	1-29-53	1030
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	4-6-53	4-13-53	1113
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	1-6-53	1-2-53	1422
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	2-16-53	2-16-53	2002
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	2-19-53	2-10-53	1266
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	3-2-53	2-25-53	1151
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	2-11-53	2-9-53	1053
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	4-20-53	4-21-53	1417
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	1-30-53	1-23-53	2563
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	3-16-53	3-11-53	1357
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	2-3-53	2-4-53	1969
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand an Hoist Line Implements.	1-29-53	1-28-53	1258
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	3-2-53	3-2-53	1430
36. McFADYEN, A. D., Measuring and Testing	2-6-53	2-27-53	1091
37. LEVY, M. L., Electricity-Switches, Welding, Heating	3-4-53	3-4-53	1724
38. MARMELSTEIN, N., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-21-53	1-16-53	1302
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	3-16-53	3-18-53	1570
40. DRUMMOND, E. J., Receptacles (part); Packages	5-11-53	5-4-53	897
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	2-26-53	2-19-53	1706

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	1-30-53	1-30-53	2256
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	2-4-53	1-28-53	1922
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	2-11-53	2-9-53	1328
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	2-3-53	1-14-53	1196
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	2-16-53	2-13-53	1580
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	1-19-53	1-26-53	2297
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	2-16-53	2-18-53	1470
50. BENGEL, W. G., Synthetic Resins; Rubber	4-16-53	4-16-53	1856
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	2-25-53	2-19-53	1603
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	3-11-53	3-2-53	1971
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	3-9-53	3-2-53	987
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	2-12-53	2-17-53	1905
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-7-53	1-2-53	1628
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	3-19-53	3-18-53	1336
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	3-2-53	2-24-53	1829
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spitoons.	2-3-53	2-2-53	1355
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	2-9-53	2-9 53	1498
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	3-30-53	3-9-53	904
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	2-25-53	2-16-53	1841
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	1-26-53	1-29-53	1991
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	2-11-53	2-9-53	1736
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	3-2-53	2-24-53	850
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	2-20-53	2-19-53	1613
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes, Boring and Drilling.	2-24-53	2-9-53	1537
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	2-24-53	2-24-53	1096
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	1-5-53	1-6-53	3701
DESIGNS: A—BREHM, G. L., Industrial Arts	6-1-53	6-5-53	1101
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	6-1-53	7-2-53	873

Number of new applications received week ending October 9, 1953

PATENTS 1,359 DESIGNS 61 REISSUES 3 TOTAL 1,423

Total number of trade-mark applications awaiting action (including renewals and republications), 11,390.
Date of oldest new application, June 1, 1953; date of oldest amended application, May 26, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	6-2-53	6-2-53	2774
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	6-1-53	5-26-53	2875
Renewals (All Classes)	8-28-53	9-30-53	324
Republications (All Classes)	8-25-53	10-1-53	259
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	6-5-53	6-12-53	2487
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	6-11-53	6-1-53	2671

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

BEADLE ET AL.

v.

ROSENWALD ET AL.

No. 5953. Decided June 3, 1953.

Petition for rehearing denied September 28, 1953.

[— F.2d — : 99 USPQ 113]

1. INTERFERENCES—CONCEPTION OF INVENTION—KNOWLEDGE OF IDENTITY OF COMPOUND TESTED IS ESSENTIAL.

Where the evidence clearly discloses that the appellants, although they conducted tests on the compound starting about June 1, 1944, were completely ignorant of the identity of the compound, *Held* that "conception cannot be predicated prior to appellant's knowledge of the identity of the compound in issue and that date was clearly September 28, 1945."

2. SAME — SAME — ROUTINE TESTS AT REQUEST OF ANOTHER DO NOT CONSTITUTE CONCEPTION.

Where appellants, at the request of appellees, carried out tests of the compound in issue to determine its value as an antioxidant for edible fats, *Held* that, since the tests were not inventive in character but simply routine and well known in the art, they constitute merely an ancillary contribution to the main inventive concept by the appellees.

3. SAME—PRIORITY OF INVENTION—STABILIZATION OF EDIBLE OILS AND FATS.

The decision of the Board of Interference Examiners awarding priority of invention of the counts in issue, directed to the stabilization of edible oils and fats, to appellees is affirmed.

APPEAL from Patent Office, Interference No. 83,543.

AFFIRMED.

Brown, Jackson, Boettcher & Dienner (John A. Dienner of counsel) for appellants.

Charles M. Thomas and *M. M. Weisman* for appellees.

WORLEY, *J.*:

This is an appeal in an interference proceeding from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority of invention of the subject matter defined by the counts in issue (Nos. 1 to 4, inclusive) to Rosenwald and Chenicek, hereinafter usually referred to as appellees, as joint inventors of a compound for "Stabilization of Edible Oils and Fats."

The counts read as follows:

1. A method of stabilizing animal and vegetable fats and oils against rancidity which comprises incorporating therein a small amount of a 2-tertiary-alkyl-4-alkoxyphenol.

2. A method of stabilizing animal and vegetable fats and oils against rancidity which comprises incorporating therein a small amount of 2-tertiary-butyl-4-methoxyphenol.

3. Animal and vegetable fats and oils normally tending to become rancid having incorporated therein a small amount of a 2-tertiary-4-alkoxyphenol.

4. Animal and vegetable fats and oils normally tending to become rancid having incorporated therein a small amount of a 2-tertiary-alkyl-4-alkoxyphenol.

The interference involves an application of appellees, Serial No. 624,318, filed October 24, 1945, and an application of appellants, Serial No. 660,302, filed April 6, 1946. Appellants Beadle and Kraybill, being the junior parties, have the burden of proving priority of invention by a preponderance of the evidence.

Both parties took testimony and introduced in evidence a number of documentary exhibits.

Appellants are assignors to the American Meat Institute and appellees to the Universal Oil Products Company, which are the real parties in interest. The former, hereinafter referred to as A. M. I., is a non-profit trade organization supported by contributions from the meat-packing industry, and the latter, hereinafter referred to as U. O. P., is an organization devoted to research, development, and engineering work and derives a substantial part of its income from patent developments.

The issues before us are questions of fact. Each of the parties claims originality of the invention as well as derivation of the invention by their opponents.

Appellants' preliminary statement alleged first written description of the invention on or about July 11, 1945; first disclosure to others on or about September 11, 1945; reduction to practice on or about September 13, 1945; beginning the exercise of reasonable diligence in perfecting the invention on or about July 19, 1945; and no acts other than the acts herein specified to establish conception of the invention as set forth in the declaration of the interference.

Appellees, in their preliminary statement, alleged conception of the involved invention on February 6, 1939; that on or about June 16, 1939, the invention was first disclosed to others; that on or about May 10, 1944, they made the first written description of the invention; that on or about May 16, 1944, the invention as set forth in the counts was first disclosed to one of appellants; that the invention was successfully reduced to practice between May 16

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and June 5, 1944, and that the date of the beginning of continued active exercise of reasonable diligence in perfecting the invention was February 6, 1939.

The involved invention relates to stabilizing edible oils and fats, and more particularly to inhibiting the development of rancidity therein. Many heretofore known compounds inhibit such rancidity but were found to be unsuitable by reason of being toxic in their effects or imparting disagreeable odor or taste. Some volatilize during cooking and others are insoluble in oils and fats.

It is obviously desirable that the effect of an inhibitor carry over into the products of the bakery, some of which, crackers for example, remain for some time in stores or homes before being used. They thus tend to become rancid. Some of the known inhibitors in edible oils and fats are quite potent but do not possess the quality of carrying over their effects into bakery products. The object of the involved invention is to provide a novel class of inhibitors which not only retard the deterioration of edible fats and oils but will also retard the development of rancidity in bakery goods.

After a meticulous examination and careful evaluation of the evidence submitted by both parties, the Board of Appeals held that appellees were the first to conceive the invention defined by all of the counts as of June 10, 1944, and constructive reduction to practice as of their filing date, October 24, 1945. Appellants were awarded for date of conception September 28, 1945, and for date of reduction to practice April 4, 1946, their filing date.

The issue of priority of conception is the principal issue before us, although other controversial points have been raised by appellants which will unfold in the review of this case.

It may be stated that the opinion of the Board comprehensively covered every phase of the present litigation and has clearly outlined the order of critical performances of the parties.

After a thorough examination of the record, we deem it proper to sketch the historical background of the case leading up to the award of priority.

During the period of interest, Rosenwald and Chenicek were engaged in research activities for U. O. P. Although the testimony of only Chenicek was adduced, there is no question of Rosenwald's joint inventorship. Witnesses appearing for appellees included Venema, a chemical engineer, member of the bar, vice president, and head of the patent department of U. O. P.; Kramer, its patent attorney; and Lowry, employed by U. O. P. for twenty-three years, who was in charge of sales of antioxidants (primarily for gasoline) for that company. Lowry held the degree of Doctor of Philosophy in organic chemistry, with practical experience on antioxidants and in bio-chemistry, although during the critical period he was engaged in sales of the products of U. O. P. He had been employed from 1925 to 1927 by A. M. I. and was acquainted, to some extent, with its personnel. Because his work caused him to adopt a liaison capacity between the companies, as was properly stated by the Board, "his role in a manner of speaking was instrumental in bringing about the invention."

During the inventive and critical period of the present proceeding, appellant Kraybill was director of research at A. M. I. and Beadle was engaged in research under Kraybill's supervision. Testifying in their behalf was Stone, secretary-treasurer of A. M. I.; Miss Lydia Smith, who made antioxidant tests for Beadle; Miss Swartz who tested cooked products for stability; Wilder, who conducted toxicity tests; Vibrans, who tested the antioxidant effects of compounds; and the president of A. M. I., Hardenbergh.

The crucial dates of the activities of the parties are as follows:

Before May 1944:	Activity by appellees only.
May and June 1944:	Cooperative activity between the parties.
Between June 1944 and June 1945:	No activity.
After September 1945:	Intense activity, both cooperative and separate, followed by deterioration of relationship of the parties.

On February 9, 1943, a patent, Serial No. 2,310,710, issued to appellees, assigned to U. O. P., on an application filed September 18, 1939, for 2-tertiary-butyl-4-methoxyphenol as an inhibitor for gasoline. The invention was directed to a method for stabilizing olefin-containing gasolines during storage which tend to depreciate due to the action of oxygen on the olefins. This is mentioned to illustrate that appellees, long prior to May 1944, were completely familiar with the compound 2-tertiary-butyl-4-methoxyphenol and related compounds in connection with their potent antioxidant effects on gasolines.

The record discloses that late in 1943, Chenicek, in a conference with Lowry, mentioned that the compound 2-tertiary-butyl-4-methoxyphenol should be tried out in the field of edible fats, and that it had potential possibilities as being useful in that field.

Lowry's testimony on this phase of the proceedings was to the effect that the involved antioxidant was disclosed to him by Chenicek in 1943 by the code number 557–35; that he was in close touch with the research men of U. O. P. because, being a technical man, he wished to know all the technical aspects as they affected his selling program; that the said researchers of antioxidants desired to find something promising for use in the edible fat field and suspected that the involved antioxidant might be effective; that he learned of the problem of finding an antioxidant for lard through study and in talks with a Dr. Lewis who was Dr. Kraybill's predecessor at A. M. I.; and that although he had kept the research men aware of such a problem, the suggestion to try out such an antioxidant on edible fats came from them.

The witness Lowry further testified that there was no question in his mind but that Rosenwald and Chenicek were the co-discoverers of this compound and at that time, the latter part of 1943, had even suggested its patentable possibilities for use in edible fats and oils.

The witness Kramer testified his company had no means in its laboratories for testing the antioxidant on edible fats, more specifically lard, and that Lowry was to await an opportunity for having it tested elsewhere.

During this same period, A. M. I. had no knowledge of the existence of the compound in question but were engaged in a program of testing any possible compound for its antioxidant effect on lard. Unless the outcome of the tests were particularly outstanding, little interest was evinced for the reasons that, their primary interest being in the field of lard, and the approval being required by the Federal Meat Inspection Division in incorporating an antioxidant in lard for sale, the expense of some thirty thousand dollars to conduct the tests were considered to be prohibitive. The other reason was that A. M. I. already possessed a compound known as NDGA and, although relatively expensive, it was very potent as an inhibitor although it possessed no "carry through" or "carrying over" properties.

The period of May–June 1944 brought about an accidental meeting between Lowry and appellant Kraybill, the result of which was that Lowry sent him a sample of 2-tertiary-butyl-4-methoxyphenol, identified merely as 557–35, while U. O. P. in exchange was sent a sample of NDGA. The Board here stated:

> • • • The *res gestae* of this encounter are in sharp dispute between the parties but they are important to the question of derivation and that question is important in a sense for if there was derivation inventorship would reside in only one of the parties and that one would be entitled to the award of priority regardless of what occurred later. In an equally important sense if conception were established in this period by one of the parties, excluding derivation, that would be likewise determinative of the outcome because of the sequence of inventive acts which occurred later and which as to occurrence are not in dispute. Either way the events of this period are important to the outcome and further it is evident that the question need be considered only with respect to Rosenwald and Chenicek *since Kraybill admittedly did not know the identity of U. O. P. 557–35 for more than a year thereafter.* • • • (Italics ours.)

In a letter dated June 5, 1944, the results of the tests conducted by A. M. I. on the 557–35 sample was made known to U. O. P. through Lowry. The testimony discloses that the test of the compound 557–35 was found to be tentatively a potent antioxidant for lard but not as potent as NDGA, A. M. I.'s antioxidant.

From that date until one year later, neither of the parties engaged in any activity relative to 557–35 inasmuch as the compound was not sufficiently competitive (or such was the opinion) with NDGA, and because of the great expense which would be involved in conducting further necessary toxicity tests. In its opinion, the Board stated: "If an inventive act was involved in the earlier work it is evident from this prolonged subsequent inactivity that it was coupled with an abandoned experiment thus precluding any holding of reduction to practice but not excluding a holding of conception. In this period U. O. P. 557–35 was practically forgotten but in the final period commencing about June 1945 it again became an object of interest."

At some time during that year of inactivity, A. M. I. continued to conduct tests on antioxidants for lard, other than 557–35, with regard to the "carry through" qualities, and early in the summer of 1945 a tentative line of research indicated that the high solubility of a compound in lard might be coupled with the "carry through" property which activity recalled to Beadle's memory that such a compound had been tested. That compound proved to be U. O. P.'s 557–35 and experiments conducted in June of that year showed that phosphoric and thiodipropionic acids were synergists for the compound 557–35; that is, they enhanced its activity. By the middle of September 1945, tests conducted by A. M. I. proved conclusively that U. O. P.'s 557–35 contained very good "carry through" properties, thus attaining great potential value, and exceeding in all requirements any compound known to A. M. I. as an ideal antioxidant for edible fats.

While appellants were thus in possession of valuable knowledge with regard to the "carry through" properties of the compound, *they had no knowledge whatsoever of the chemical identity of the compound itself which was known only to U. O. P.* It also appears that they were not aware of the fact that a patent had issued to appellees for that compound.

Appellants made no efforts to run chemical analyses on the compound but on or about September 25, 1945, Kraybill requested Lowry to visit him and at that time asked for the identity of the compound 557–35. On receiving due permission, Lowry disclosed the identity of the compound 557–35 and in addition furnished appellants with a copy of the patent issued to appellees.

On October 4, 1945, a meeting was had by the parties for the purpose of discussing the possible patent aspects of the situation. Representing American Meat Institute at this meeting was Beadle, Kraybill, and Stone. Universal Oil Products Company was represented by Chenicek, Rosenwald, Lowry, Danforth, Venema and Kramer. Exhibit 12, which consists of a resume of the meeting and written by Kraybill, and appellees' documentary exhibit IV, written by Venema covering the same meeting, are substantially in agreement that U. O. P. should file an application for a patent for the use of the compound 557–35 as an inhibitor for the oxidation of edible fats, and that A. M. I. should file an application for a patent for the use of a synergist with the antioxidant. The testimony of record clearly indicates that U. O. P. was of the opinion that the broad invention was either covered by their patent or that additional claims could be filed covering it. They further felt that the use of

the synergist with the inhibitor was clearly the invention of A. M. I. and that they, appellants, should file an application covering such use.

Subsequent to that meeting, appellants conducted toxicity tests on the compound 557–35 and on October 24, 1945, Rosenwald and Chenicek filed their application. The toxicity tests on the compound were then continued for about two years when Federal approval was obtained for use of the compound in edible fats and oils. Approximately six months after the filing of the application by Rosenwald and Chenicek, appellants, on April 6, 1946, filed their application for a patent for the compound at bar.

Almost immediately after the meeting of October 4, 1945, appellees submitted to appellants five additional, different but related, promising antioxidants for testing, identified respectively as U. O. P. 576–22, U. O. P. 576–60, U. O. P. 576–74, U. O. P. 576–86, and U. O. P. 1441–25. Tests run by A. M. I. on those five additional compounds proved them effective as inhibitors. Those tests, however, were of a preliminary nature and did not include testing at that time for "carry through" properties, although such tests were conducted and completed by January 30, 1946, and appellants incorporated and claimed inventorship of those five compounds in their application. As pointed out by the Board, those five compounds are not specifically in issue except as they pertain to the issue of "carry through" element of conception of the invention and also as to the question of derivation. The patent issued to appellees discloses four of those five additional compounds and because of their close alliance with the compound 557–35, they stand or fall in the same category. A fifth compound, namely, 2-5-ditertiarybutyl-4-methoxyphenol, is not so closely related and is not mentioned in the patent of appellees. Appellants also claimed that compound in their application in spite of the fact that it was one of the compounds submitted by appellees for testing by appellants.

Subsequent to this time, all efforts on the part of U. O. P. to maintain a cooperative basis of work received no favorable response from A. M. I. which disclosed the compounds to the Tennessee Eastman Company which, in turn contributed funds and materials for toxicity experiments on said compounds.

On the question of actual reduction to practice, the Board stated that

> • • • it must be held in view of the evidenced intended purpose in the actual experimentation, namely use in small amount in an edible fat exemplified by lard, that the parties did not reduce to practice before their filing dates. To mention but one item the toxicity tests were not completed until long after the filing dates and until they were completed the matter of reduction to practice as regards an edible product was still in the realm of uncertainty. • • • Rosenwald and Chenicek's date of reduction to practice is consequently their filing date October 24, 1945 and Kraybill's earliest is their filing date six months later on April 4, 1946.

[1] On the issue of conception, the evidence of record clearly discloses that appellants were completely ignorant of the identity of the compound in issue until it was disclosed to them on September 28, 1945, by Lowry in behalf of Rosenwald and Chenicek, although tests by them on the compound 557–35 had been conducted over a period starting about June 1, 1944, when it was first submitted to them by Lowry for testing as an antioxidant for edible fats. Conception cannot be predicated prior to appellants' knowledge of the identity of the compound in issue and that date was clearly September 28, 1945.

While the specifications of both parties recite the advantageous property of "carry through" into baked or fried products employing the compound in issue, the counts themselves are drawn to the broad language of stabilizing against rancidity of "animal and vegetable fats and oils," and, as pointed out by the Board, the counts define patentable invention without the property of "carry through," and are broad enough to include such a species conception. The Board stated:

> • • • This viewpoint is not in belittlement of Beadle and Kraybill's discovery of "carry through" which is a most valuable and meritorious discovery. It is simply that the counts, while broad enough to be inclusive of carry through, nevertheless do not require it specifically and are inclusive of a patentable species which doesn't even involve it.

[2] After a careful analysis of the evidence, the Board held that appellants had derived the invention from appellees and awarded priority of conception of the involved invention to appellees on the basis of the results of appellants' tests on compound 557–35 transmitted by letter to Lowry about June 5, 1944. The Board stated, and we believe correctly, that those tests "were not inventive in character but simply routine and well known in the art and as such constitute merely an ancillary contribution to the main inventive concept by Rosenwald and Chenicek." Accordingly, Rosenwald and Chenicek were awarded priority of conception as of not later than June 10, 1944.

The contention of appellants that the matter of conception of the invention should correspond with the date of reduction to practice, because of the lack of predictability at each step of the work of conception, is untenable because appellees had reasonable assurance that the antioxidant was effective by June 10, 1944, the date awarded them for priority of conception.

The record in this case fully substantiates the holding of the Board of Interference Examiners that appellees were the first to conceive and the first to reduce to practice the subject matter of the invention defined by the counts in issue.

The decision of the Board is, accordingly, affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

HILLYARD CHEMICAL CO.
v.
VESTAL LABORATORIES, INC.

Nos. 5971 and 5982. Decided June 3, 1953.

[205 F.2d 202; 98 USPQ 215.]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—"BRITEN-ALL" AND "BRITEN-ZIT".
Held that the Examiner and the Examiner-in-Chief were correct in holding that the terms "Briten-All" and "Briten-Zit" are confusingly similar and that concurrent use of the two marks during the five years preceding the application rebuts the applicant's claim of distinctiveness under Section 2(f) of the act of 1946.

2. SAME—SAME—"SHINE-ALL" AND "BRITEN-ALL".
Although the syllable "All" is identical in both marks and the marks have a similar meaning, *Held* that the remaining portion of "Shine-All" and "Briten-All" give them a separate identity by which they are not confusingly similar.

3. SAME—CONCELLATION—CANCELLATION OF SUGGESTIVE MARK CANNOT BE BASED ON SIMILARLY SUGGESTIVE BUT DIFFERENT MARK.
Held that the Examiner of Interferences was correct in holding that an applicant who adopts a notation which is highly suggestive of the nature of the goods involved may not prevent others from using similarly suggestive but otherwise distinguishable notations or trade-marks for their goods.

APPEAL from Patent Office, Opposition No. 28,169, Cancellation No. 5,426.

MODIFIED.

Fishburn and Mullendore, and *Claude A. Fishburn* for Hillyard Chemical Co.

Alfred W. Petchaft for Vestal Laboratories, Inc.

O'CONNELL, *J.*:

These respective appeals considered on the same record involve review of the decisions of the Examiner-in-Chief of the United States Patent Office, acting for the Commissioner of Patents, in an opposition and a cancellation proceeding instituted between the same parties relating to three marks, "Shine-All," "Briten-All," and "Briten-Zit," used by them in the sale of a cleaning and polishing compound for furniture, woodwork, etc. 92 USPQ 289.

The parties have been doing business in and from the state of Missouri where the Hillyard Company of St. Joseph began the sale of its merchandise about 1915 using the mark "Shine-All." That mark not only consisted of those two words but also depicted a background of the radiating sun. The mark was continuously used since the inception of the business and was registered on June 3, 1924 under the act of 1905, with the words disclaimed apart from the mark as shown in the application. The registration was duly renewed June 3, 1944.

Vestal of St. Louis entered the field in 1924 and began selling its merchandise, attached to which was the mark "Briten-All," consisting of those two words set over a picture of a radiating barrel head. The mark was registered June 7, 1927 under the act of 1905 and duly renewed in accordance with the provisions thereof.

In 1927 Hillyard began to market a cleaner for floors and woodwork under the mark "Briten-Zit," which was registered on December 11, 1928, under the Trade-Mark Act of 1920. Application for the renewal of that registration was made by Hillyard and published in 1948 by the Commissioner of Patents under the act of 1946.

Thereupon Vestal filed a notice of opposition based on its prior and continuous use of the registration "Briten-All," Opposition No. 28,169. Hillyard then filed a petition to cancel Vestal's registration of "Briten-All," based on the allegation that the mark is confusingly similar to Hillyard's "Shine-All."

[1] The tribunals of the Patent Office in the opposition proceeding noted that the terms "Briten-All" and "Briten-Zit" were confusingly similar in sound, meaning, and appearance, and that the concurrent use of a confusingly similar mark during the five years preceding the filing of Hillyard's application, based upon the assertion of distinctiveness under section 2(f) of the act of 1946, rebuts that allegation. The Examiner and the Examiner-in-Chief accordingly sustained the Notice of Opposition. We agree that the concurring action of the tribunals of the Patent Office in their disposition of the opposition proceeding was correct.

The Examiner in the cancellation proceeding, No. 5,426, dismissed the petition (1) on the ground of laches; and (2) on the ground that there was no confusing similarity between "Shine-All" and "Briten-All" when concurrently used on the involved goods. The Examiner-in-Chief on appeal reversed the action of the Examiner in both these respects in the cancellation proceeding.

[2] It is true that the syllable "All" is identical in both marks, and the marks as a whole have a similar meaning. We are of the opinion, however, that the remaining portions of the marks give them a separate identity in the case at bar by which they are not confusingly similar. Nor are we convinced of the validity of the holding of the Examiner-in-Chief that the words of the competing marks are descriptive of the goods to which they are attached. *In re One Minute Washer Company*, 25 CCPA (Patents) 978, 95 F.2d 517, 37 USPQ 203.

[3] The decision of the Examiner of Interferences in dismissing the petition for cancellation aptly remarked:

> Aside from the question of laches, however, it is the opinion of the Examiner that the cancellation should be dismissed because of lack of confusing similarity between the notations "Shine-All" and "Briten-All." The notation "Shine-All" manifestly is highly suggestive of the nature of the goods here involved, and while the notation "Briten-All" is similarly suggestive thereof, it differs substantially from "Shine-All" in both appearance and sound. The applicant having adopted a notation of such character as a trade-mark for its goods may not prevent others from using similarly suggestive but otherwise distinguishable notations as trade-marks for their goods. It is believed that the marks here involved in their essentials are comparable to the notations "Havesome," for cocoa, and "Drinksum," for coffee, which were held not to be confusingly similar in the case of *L. Bartlet v. Arbuckle Bros.*, 307 O. G. 235, 52 APP. D. C. 267. In its decision, the court stated:
>
> "That the words involved here are not confusingly similar in appearance or sound we think is apparent, and unless we are to rule that the adoption of a suggestive mark by one trader precludes all other traders from employing another mark of similar suggestiveness but entirely different in appearance and sound, applicant is entitled to registration."

We agree with the views and conclusion expressed by the Examiner-in-Chief in the opposition proceeding, but reject them as inapposite in the cancellation proceeding. Accordingly, we deem it unnecessary to discuss the issue of laches or other points argued by counsel for the parties in their briefs.

Subsequent to the filing of the records in this court the respective parties moved for the diminution of the record. The motions having been granted with the provision that the costs for printing the additional material be fixed by the court on determination of the case, we conclude that such costs should be taxed against appellant in each appeal.

For the reasons hereinbefore stated, the decisions of the Patent Office are respectively affirmed in Opposition No. 28,169, and reversed in Cancellation No. 5,426.

MODIFIED.

JACKSON, *J.*, retired, was recalled to participate in this case in place of GARRETT, *C. J.*

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,057,051, F. H. Owens, Method of drawing and photographing stereoscopic pictures in relief, filed Aug. 25, 1953, D. C., S. D. N. Y., Doc. 87/300, *Education Comics, Inc., et al.* v. *American Sterographic Corp. et al.*

2,067,163, C. Sonman, Method and apparatus for pointing fur skins, filed Aug. 10, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. C–13759, *American Prooting Machine Corp.* v. *David & David.*

2,088,754, A. L. Larson, Waterproofing of masonry walls, appeal filed Aug. 5, 1953, C. C. A., 1st Cir., Boston, Doc. 4763, *Brisk Waterproofing Co., Inc.* v. *A. Belanger & Sons, Inc.*

2,102,937, J. V. Bauer, Plyboard adhesive, filed Aug. 25, 1953, D. C. Md., Doc. 6813, *Stein Hall & Co., Inc.* v. *Kieckhefer Container Corp.*

2,110,964, B. Ridgeway, Transmission, filed Apr. 29, 1953, D. C., E. D. Mo. (St. Louis), Doc. 9179(1), *Ridgeway Automatic Transmission Co.* v. *General Motors Corp.*

2,120,667, B. Gruskin, Therapeutic agent for use in the treatment of infection, D. C., S. D. N. Y., Doc. 86/362, *Bristol-Myers Co.* v. *Rystan Co., Inc.* Stipulation and order of dismissal (notice Aug. 10, 1953).

2,188,063, H. Solakian, Case hardening composition, filed Aug. 21, 1953, D. C. Conn. (New Haven), Doc. 4574, *A. F. Holden* v. *The Bellis Heat Treating Co. et al.*

2,247,174, L. Muller, Combined cigarette case and lighter, D. C., S. D. N. Y., Doc. 79/258, *Westro, Inc.* v. *Illinois Watch Case Co.* Judgment dismissing complaint on merits (notice Aug. 10, 1953).

2,294,172, C. Getz, Process of making aerated food products, D. C., N. D. Ill. (Chicago), Doc. 47c963, *Aeration Processes, Inc.* v. *Naperville Prince Castles Co.* Consent judgment and injunction Sept. 12, 1947 shall be and is vacated Aug. 3, 1953.

2,305,910, C. P. Taylor, Method of drafting, filed Aug. 26, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15820–WM, *C. P. Taylor* v. *Keuffel & Esser Co. of New York et al.*

2,330,629, G. Schmidt, Machine for the automatic production of wire-tyings for packets, filed July 9, 1953, D. C., W. D. Wash. (Seattle), Doc. 3520, *Cranston Steel Strapping Co.* v. *Ketcham Wire Mfg. Co.*

2,376,128, F. F. Dauenhauer, Pocket trommel, filed Aug. 24, 1953, D. C. Oreg. (Portland), Doc. 7147, *F. F. Dauenhauer* v. *St. Paul Harvesters, Inc.*

2,401,451, R. G. Arey, Process of making jack plugs, filed Aug. 7, 1953, D. C., S. D. N. Y., Doc. 87/109, *R. G. Arey* v. *American Radio Hardware Co., Inc.*

2,430,355, J. L. McCarthy, Production of useful products by microorganisms acting upon prepared sulfite waste liquor, filed Aug. 7, 1953, D. C., W. D. Wis. (Madison), Doc. 2488, *Research Corp.* v. *Lake States Yeast Corp.*

2,470,506, C. B. Lundstrom, Picker stick, filed by corrected amendment Aug. 18, 1953, D. C. Mass. (Boston), Doc. 53/798–M, *Lundstrom Laboratories, Inc.* v. *Crompton & Knowles Loom Works.*

2,487,025, G. A. Matthews, Reclosing circuit breaker, filed Aug. 21, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1790, *I-T-E Circuit Breaker Co.* v. *McGraw Electric Co.*

2,494,256, M. Muskat et al., Apparatus for perforating well casings and well walls, D. C. Del., Doc. 1342, *Gulf Research & Development Co. et al.* v. *Schlumberger Well Surveying Corp.* Stipulation of dismissal Aug. 20, 1953.

2,510,652, Parsons & Stadum, Single-phase low frequency control for welding, D. C., N. D. Ill., E. Div., Doc. 53c174, *Welding Research, Inc.* v. *Westinghouse Electric Corp.* Dismissed by plaintiff pursuant to 41 (a) F. R. C. P. (notice Aug. 12, 1953).

2,527,247, R. E. Dieterich, Visor principally for one-piece windshield, D. C., N. D. Ill. (Chicago), Doc. 53c1391, *Dieterich Products Corp.* v. *Harrison Wholesale Co.* Consent decree holding patent valid and infringed, no injunction (notice Aug. 27, 1953).

2,534,684, F. Serpico, Reinforced luggage box, filed Aug. 13, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15677, *F. Serpico* v. *Eastern Woodworking Corp.*

2,585,174, J. W. Rosendahl, Serving dish for corn on the cob, filed Aug. 18, 1953, D. C. N. J. (Newark), Doc. 660/53, *J. W. Rosendahl* v. *Carteret China Co. et al.*

2,585,551, R. Hofstadter, Means for detecting ionizing radiations, filed Aug. 12, 1953, D. C., S. D. N. Y., Doc. 87/159, *R. Hofstadter* v. *I. W. Ruderman.*

2,615,846, Dvorkovitz & Hawley, Washing composition, filed Aug. 11, 1953, D. C., S. D. Ind. (Indianapolis), Doc. 3531, *The Diversey Corp.* v. *Coca-Cola Bottling Co.*

2,622,920, S. J. Zagel, Vehicle ventilator window air deflector attachment, filed Aug. 21, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1794, *Rowse Mfg. Co.* v. *S. J. Zagel et al.*

2,625,754, J. F. Morgan, Ditch forming plow, filed Aug. 7, 1953, D. C. Ariz. (Phoenix), Doc. 1916, *Fullerform, Inc.* v. *Southsides Agricultural Engineering Co. et al.*

2,626,711, Saul & Fenstermaker, Adjustable peg rack, filed Aug. 18, 1953, D. C., E. D. Wis. (Milwaukee), Doc. 6031, *Rack Engineering Co.* v. *International Harvester Co.*

2,633,251, J. K. Bruce, Palletizer, filed Aug. 17, 1953, D. C., E. D. N. Y., Doc. 13779, *Production Aids, Inc., et al.* v. *Liebmann Breweries, Inc.*

2,643,813, O. L. Vines, Carton, filed Aug. 18, 1953, D. C. Md. (Baltimore), Doc. 6799, *Alford Cartons* v. *Gordon Cartons, Inc.*

Re. 22,091, N. Rippen, Sheathing system, appeal filed Aug. 26, 1953, C. C. A., 1st Cir., Boston, Doc. 4768, *Elliot B. Paley et al.* v. *Bethlehem Steel Co.*

Re. 23,662, C. R. Larkin, Barbecue appliance, filed Aug. 18, 1953, D. C. N. J. (Newark), Doc. 661/53, *Charles R. Larkin et al.* v. *Atlas Barbecue Co., Inc.*

Des. 165,399, J. Seigel, Lady's stocking, filed Aug. 13, 1953, D. C., S. D. N. Y., Doc. 87/171, *Lambert Hosiery Mills, Inc., et al.* v. *Penn Maid Hosiery Mills, Inc.*

Des. 166,668, W. H. Hardy, Handbag, D. C., S. D. N. Y., Doc. 78/104, *Handbag Specialties, Inc.* v. *Ascot Handbags, Inc., et al.* Stipulation and order of discontinuance Aug. 5, 1953.

Des. 169,075, A. W. Lindberg, Jr., Mail box, filed Aug. 21, 1953, D. C. Conn. (New Haven), Doc. 4573, *Albert W. Lindberg, Jr.* v. *Gordon & Lewis.*

Des. 170,088, M. J. Hoffman, Combination sofa and couch, filed Aug. 25, 1953, D. C. Mass. (Boston), Doc. 53/851–W, *Parkway Furniture Mfg. Co.* v. *Dav-O-Niter Corp.*

NOTICES

Adjudicated Patents

(C. A. Ohio) Rude Patent No. 1,845,936, for a spider wheel for harrows, *Held* invalid. *Allied Wheel Products, Inc., et al.* v. *Rude*, 206 F.2d 752; 97 USPQ 510.

(D. C. N. J.) Rottenberg Patent No. 1,967,972, for a butter printing and cutting machine. Claims 1, 5, and 6, *Held* invalid. *Chiplets, Incorporated* v. *June Dairy Products Co., Inc., et al.*, 114 F. Supp. 129; 98 USPQ 253.

(D. C. Pa.) McKinney Patent No. 2,042,158, for a door. Claims 8 and 9, *Held* invalid. *Crawford Door Company* v. *The Howell Manufacturing Company*, 114 F. Supp. 148; 97 USPQ 538.

(C. A. W. Va.) Hodgkins Patent No. 2,073,103, for a circuit breaker. Claims 31 to 33 and 39 to 44, *Held* invalid and, if valid, not infringed. *Westinghouse Electric Corporation* v. *Bulldog Electric Products Company*, 206 F.2d 574; 98 USPQ 300.

(D. C. Calif.) Horst Patent No. 2,114,712, for a method of keeping the picking fingers of the hop picking machines clean, *Held* invalid. *E. Clemens Horst Co.* v. *Oeste*, 114 F. Supp. 408; — USPQ —.

(C. A. W. Va.) Jennings Patent No. 2,190,517, for a circuit breaker. Claims 15, 19 to 23, 25, and 27 to 35, *Held* invalid and not infringed. *Westinghouse Electric Corporation* v. *Bulldog Electric Products Company*, 206 F.2d 574; 98 USPQ 300.

(D. C. N. J.) Rottenberg Patent No. 2,201,872, for a cutting, shaping, embossing, and wrapping machine for butter or similar plastic material. Claim 4, *Held* invalid. *Chiplets, Incorporated* v. *June Dairy Products Co., Inc., et al.*, 114 F. Supp. 129; 98 USPQ 253.

(D. C. Tex.) John Patent No. 2,276,981, for a ventilating metal ironing table top. Claim 1, *Held* invalid. *J. R. Clark Co.* v. *Murray Metal Products Co.*, 114 F. Supp. 224; — USPQ —.

(D. C. N. J.) Doering and Doering Patent No. 2,321,188, for a method of extruding plastic substances. Claims 5 and 6, *Held* invalid. *Chiplets, Incorporated* v. *June Dairy Products Co., Inc., et al.*, 114 F. Supp. 129; 98 USPQ 253.

(D. C. N. J.) Doering and Scoglund Patent No. 2,323,523, for an apparatus for individual edible spreads. Claims 6 and 7, *Held* invalid. *Id.*

(C. A. W. Va.) Swingle Patent No. 2,329,362, for a circuit breaker. Claims 27, 53, 54, 69, 70, and 76 to 80, *Held* invalid and not infringed. *Westinghouse Electric Corporation* v. *Bulldog Electric Products Company*, 206 F.2d 574; 98 USPQ 300.

(D. C. N. C.) Scanlon Patent No. 2,333,273, for traffic markers in the shape of a cone made from discarded automobile tires, *Held* invalid and not infringed. *Interstate Rubber Products Corp.* v. *Radiator Specialty Co.*, 114 F. Supp. 120; — USPQ —.

(C. A. Colo.) Silver Patent No. 2,390,131, for a continuous diffusion Process, *Held* valid and infringed. *Oliver United Filters Incorporated* v. *Silver*, 206 F.2d 658; 98 USPQ 240.

(D. C. Calif.) Thys Patent No. 2,448,063, for interlocking fingers for picking hops. Claims 18, 19, 21, and 22, *Held* invalid. *Thys Co.* v. *Oeste*, 114 F. Supp. 403; — USPQ —.

(C. A. Colo.) Silver Patent No. 2,468,720, for a continuous diffusion battery and treatment, *Held* valid and infringed. *Oliver United Filters Incorporated* v. *Silver*, 206 F.2d 658; 98 USPQ 240.

(C. A. N. J.) Cusano Patent No. 2,479,477, for a mechanical apparatus to correct warpage in game boards, *Held* invalid. *Rock-Ola Mfg. Corp.* v. *Cusano*, 206 F.2d 551; —USPQ —.

(C. A. W. Va.) Jennings Reissue Patent No. 19,887, for a panel circuit breaker. Claims 1, 5, 6, and 9, *Held* invalid and not infringed. *Westinghouse Electric Corporation* v. *Bulldog Electric Products Company*, 206 F.2d 574; 98 USPQ 300.

(D. C. Fla.) Bourne Plant Patent No. 203, for sugar cane, *Held* invalid. *Bourne* v. *Jones*, 114 F. Supp. 413; 98 USPQ 206.

(D. C. Fla.) Bourne Plant Patent No. 210, for sugar cane, *Held* invalid. *Id.*

(D. C. Fla.) Bourne Plant Patent No. 220, for sugar cane, *Held* invalid. *Id.*

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,449,848, J. R. Hefele, Pulse-actuated circuits, decided Aug. 10, 1953, claims 4, 11, 12, and 13.

Pat. 2,571,947, R. G. Russell, Adjustment gauge for coils, decided Oct. 22, 1953, claims 1, 2, and 8.

Pat. 2,577,111, W. C. Downing, Jr., D. A. Eggleston, and J. M. Vanderleck, Thermal convertor, decided Oct. 7, 1953, claims 1, 2, 3, 4, and 26.

Pat. 2,597,578, F. X. Ganter, Hanger means for Venetian blinds, decided Oct. 22, 1953, claims 1, 2, 3, 4, 10, 11, and 12.

Pat. 2,549,052, K. M. Brown and W. W. Johnstone, Desulfurization of hydrocarbon oils, decided July 29, 1953, claim 3.

Disclaimers

2,397,166.—*John Haller*, Northville, Mich. FLUID TRANSMISSION SYSTEM FOR MACHINE TOOLS. Patent dated Mar. 26, 1946. Disclaimer filed Oct. 19, 1953, by the inventor.

Hereby enters this disclaimer to claim 1 of said patent.

2,639,352.—*Robert A. Watson*, St. Louis, Mo. THERMOSTATIC SWITCHING DEVICE. Patent dated May 19, 1953. Disclaimer filed Oct. 19, 1953, by the inventor; the assignee, *Missouri Automatic Control Corporation*, assenting.

Hereby enters this disclaimer to claims 1, 2, 3, 4, and 8 of said patent.

Cancellation Notices

[6119]

George W. Stimpson, his assigns or legal representatives, take notice:

The Post Printing and Publishing Company, of 650 Fifteenth Street, Denver, Colorado, has filed a petition for cancellation of Trade-Mark Registration No. 418,797 of George W. Stimpson, 726 National Press Building, Washington, D. C., registered January 8, 1946, and notice of such proceeding has been sent by registered mail to the said George W. Stimpson at the said address and has been returned by the post office as undeliverable.

Since this Office has been informed that the registrant is now deceased, notice is hereby given that unless the assigns or legal representatives shall enter an appearance in the aforesaid cancellation proceeding within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Nov. 3.)

DAPHNE LEEDS,
Oct. 6, 1953. *Assistant Commissioner of Patents.*

[6120]

Ben B. Krasnow, his assigns or legal representatives, take notice:

The Deerfield Groves Company of Wabasso, Indian River County, Florida, has filed a petition for cancellation of Trade-Mark Registration No. 319,292 of Ben B. Krasnow of California Fruit Building, Sacramento, California, registered November 20, 1934, and notice of such proceeding has been sent by registered mail to the said Ben B. Krasnow at the said address and has been returned by the post office as undeliverable.

Since this Office has been informed that the registrant is now deceased, notice is hereby given that unless the assigns or legal representatives shall enter an appearance in the aforementioned cancellation proceeding within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Nov. 3.)

DAPHNE LEEDS,
Oct. 12, 1953. *Assistant Commissioner of Patents.*

[6127]

Charles E. Newman, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Gould Novelties, Inc., 1657 Broadway, New York, New York, to effect the cancellation of trade-mark registration of Charles E. Newman, 3619 Broadway, Kansas City, Missouri; No. 316,849, dated September 4, 1934, and the notice of such proceeding sent by registered mail to the said Charles E. Newman, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Charles E. Newman, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published for three consecutive weeks in the OFFICIAL GAZETTE. (Date of first publication—Nov. 3.)

DAPHNE LEEDS,
Oct. 12, 1953. *Assistant Commissioner of Patents.*

Classification Order No. 153

The following transfer is hereby ordered to take effect on Monday, October 26, 1953:

From Division 6 to Division 38:

Class 260, Chemistry, Carbon Compounds
Subs. 463 thru 549

M. C. ROSA,
Oct. 22, 1953. *Executive Examiner.*

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abrams, Robert R., East Orange, N. J. Sheets of sound-absorbing material and sound-absorbing units fabricated therefrom. Serial No. 643,624, Nov. 17. Class 12.

Accuracy Scientific Instrument Co., Philadelphia, Pa. Hydrometers. Serial No. 636,549, Nov. 17. Class 26.

Add-Life, Inc., New York, N. Y. Vitamin and food supplement capsules. Serial No. 644,818, Nov. 17. Class 18.

Adelaide Dresses, Inc., St. Louis, Mo. Ladies', misses', and juniors' coats, suits, hosiery, etc. Serial No. 624,580, Nov. 17. Class 39.

Alfa Photo Corp., New York, N. Y. Incandescent lamps. Serial No. 638,889, Nov. 17. Class 21.

Almaden-Santa Clara Vineyards, doing business in the name of Almaden Vineyards, Los Gatos, Calif. Wine. Serial Nos. 640,597–8, Nov. 17. Class 47.

Almaden Vineyards: *See*—
Almaden-Santa Clara Vineyards.

Alto Corporation, Harrisburg, Pa. Slicing machines. Serial No. 621,045, Nov. 17. Class 23.

American Flexible Coupling Company, Erie, Pa. Mechanical shaft couplings. Serial Nos. 638,185–7, Nov. 17. Class 23.

Armour and Company, Chicago, Ill. Oral analgesic. Serial No. 645,619, Nov. 17. Class 18.

Artistic Wire Products Company, Inc., East Hampton, Conn. Vinyl-coated wire racks. Serial Nos. 615,744–5, Nov. 17. Class 13.

Atlas Overhead Door Company, Quakertown, Pa. Doors. Serial No. 632,195, Nov. 17. Class 12.

Auburn Rubber Company, Inc., Auburn, Ind. Rubber, composition, plastic, and cardboard toys. Serial No. 651,036, Nov. 17. Class 22.

Automatic Devices Company, Allentown, Pa. Curtain tracks. Serial No. 647,141, Nov. 17. Class 13.

Ayr-Mor Machinery Company, Inc., Chicago, Ill. Dry cleaning machines and dry cleaning tumblers. Serial No. 636,874, Nov. 17. Class 24.

B. V. D. Company, Inc., The, New York, N. Y. Clothing for men, clothing for women, and clothing for children. Serial No. 625,392, Nov. 17. Class 39.

Bacon, R. S., Veneer Co., Chicago, Ill. Lumber and plywood panels. Serial No. 642,121, Nov. 17. Class 12.

Bacon, R. S., Veneer Co., Chicago, Ill. Lumber. Serial No. 642,122, Nov. 17. Class 12.

Barclay Tissue Corporation, Brooklyn, N. Y. Toilet tissue. Serial No. 581,701, Nov. 17. Class 37.

Barry, B. J., & Company, Inc., New York, N. Y. Heavy woven cotton fabric. Serial No. 647,830, Nov. 17. Class 42.

Battenfeld Grease & Oil Corp., Kansas City, Mo. Caulking compound. Serial Nos. 646,355–6, Nov. 17. Class 12.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Tarpaulins and tents. Serial No. 648,358, Nov. 17. Class 50.

Belson Company, Green Bay, Wis. Nylon hosiery. Serial No. 643,632, Nov. 17. Class 39.

Bethlehem Steel Company, Bethlehem, Pa. Galvanized steel sheets. Serial No. 640,544, Nov. 17. Class 14.

Bierhaus, E., and Sons, Vincennes, Ind. Laundry bleach and cleanser. Serial No. 625,579, Nov. 17. Class 52.

Brenner, E. Alberta, Wallingford, Conn. Devotional desks. Serial No. 646,922, Nov. 17. Class 32.

Brogden Laboratories, Inc., Miami, Fla. Liniment. Serial No. 644,894, Nov. 17. Class 18.

Brown, C. C., Company: *See*—
Brown, C. H.

Brown, C. H., doing business as C. C. Brown Company, Los Angeles, Calif. Candy. Serial No. 636,766, Nov. 17. Class 46.

Caldwell, A. & G. J., Inc., Newburyport, Mass. Liqueur. Serial No. 647,594, Nov. 17. Class 49.

Caltex of California, Inc.: *See*—
Caltex Sportswear Co. of California, Inc.

Caltex Sportswear Co. of California, Inc., Los Angeles, Calif., now by change of name Caltex of California, Inc. Women's and misses' girdles. Serial No. 636,631, Nov. 17. Class 39.

Carney Company, Inc., The, Mankato, Minn. Rockwool batts. Serial No. 625,337, Nov. 17. Class 12.

Champion Dry Coaster Co.: *See*—
Champion, George D.

Champion, George D., doing business as Champion Dry Coaster Co., Cincinnati, Ohio. Coasters in the nature of blotter tablets. Serial No. 646,713, Nov. 17. Class 37.

Child's Drug Co.: *See*—
Childs, Ralph.

Childs, Ralph, doing business as Child's Drug Co., Jonesboro, Ark. Medicinal preparation. Serial No. 645,952, Nov. 17. Class 18.

Chi-Namel Paint and Varnish Company: *See*—
Minnesota Paints, Inc.

Chipman Knitting Mills, Easton, Pa. Women's full-fashioned nylon hosiery. Serial No. 643,944, Nov. 17. Class 39.

City Stores Company, Wilmington, Del., and Philadelphia, Pa. Facial tissues and toilet tissues. Serial No. 636,463, Nov. 17. Class 37.

Clyde Associates Incorporated, New York, N. Y. Sportswear. Serial No. 628,092, Nov. 17. Class 39.

Columbia Broadcasting System, Inc., New York, N. Y. Radio and television receiving sets, electric phonographs and combinations of the same. Serial No. 646,272, Nov. 17. Class 21.

Columbia Records Inc., Bridgeport, Conn. Grooved phonograph records. Serial No. 648,588, Nov. 17. Class 36.

Columbia River Paper Mills, Portland, Oreg. Safety paper. Serial No. 636,588, Nov. 17. Class 37.

Commercial Solvents Corporation, New York, N. Y. Therapeutic composition. Serial No. 638,698, Nov. 17. Class 18.

Compule Corporation, The, Rutherford, N. J. Hypodermic injection devices. Serial No. 628,522, Nov. 17. Class 44.

Consolidated Grocers Corporation, Chicago, Ill. Spices and seasonings. Serial No. 623,043, Nov. 17. Class 46.

Cresca Company, Inc., New York, N. Y. Ornamental food display stand. Serial No. 618,628, Nov. 17. Class 32.

Crown Zellerbach Corporation, San Francisco, Calif. Coated book papers. Serial No. 644,739, Nov. 17. Class 37.

Crucible Steel Company of America, New York, N. Y. Parts for pumps for internal combustion engines. Serial No. 624,933, Nov. 17. Class 23.

Curtis Companies Incorporated, Clinton, Iowa. Doors. Serial No. 633,412, Nov. 17. Class 12.

De Elorza, Marques: *See*—
Old Empire Manufacturing Chemists, Incorporated.

Dell, Samuel M., & Co., Inc., Baltimore, Md. Paint and similar type protective and decorative coating and surfacing brushes. Serial No. 626,369, Nov. 17. Class 29.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. Serial No. 643,300, Nov. 17. Class 32.

Dri-Wear Fur Processing Co., New York, N. Y. Chemical compound. Serial No. 642,451, Nov. 17. Class 52.

Eldridge, R. W., Company, Inc., Charlotte, N. C. Handkerchiefs. Serial No. 641,280, Nov. 17. Class 39.

Electronic Heating Corp., Newton, Mass. High frequency electronic machine. Serial No. 642,534, Nov. 17. Class 21.

Eller, Arthur G., Company, Louisville, Ky. Combination windows and ordinary window sash. Serial No. 641,772, Nov. 17. Class 12.

Fabrique Bag, Inc., New York, N. Y. Mesh handbags. Serial No. 643,479, Nov. 17. Class 3.

Farley Manufacturing Company, Skokie, Ill. Candies. Serial Nos. 639,215–17, Nov. 17. Class 46.

Farmland Irrigation Company, Inc., Fresno, Calif. Component parts of portable irrigation systems. Serial No. 633,150, Nov. 17. Class 13.

Feder, Jack, Forest Hills, N. Y. Sewing machine and sewing machine parts. Serial No. 646,375, Nov. 17. Class 23.

Fiction House, Inc., Stamford, Conn. Magazine. Serial No. 647,688, Nov. 17. Class 38.

Fiesta Sportswear, Inc., Phoenix, Ariz. Ladies' blouses, skirts, jackets, etc. Serial No. 619,539, Nov. 17. Class 39.

Fisher Scientific Company, Pittsburgh, Pa. Nefluorophotometer, heavy duty balance, AC model electrophotometer, etc. Serial No. 629,157, Nov. 17. Class 26.

Flagstaff Foods, Perth Amboy, N. J. Grape juice. Serial No. 641,922, Nov. 17. Class 45.

Flintkote Company, The, New York, N. Y. Plastic antislip floor coating. Serial No. 629,004, Nov. 17. Class 16.

Fluor Corporation, Ltd., The, Los Angeles, Calif. Construction on a custom basis of plant equipment. Serial No. 644,405, Nov. 17. Class 103.

Food Machinery and Chemical Corporation, San Jose, Calif. Fruit and vegetable handling and treating equipment, apparatus for filling cans with food products, etc. Serial No. 608,453, Nov. 17. Class 23.

Gale Hall Engineering: *See*
Universal Chemists, Inc.

Gale Hall Engineering, Inc., assignee: *See*—
Universal Chemists, Inc.

Gatmart Inc., New York, N. Y. Textile fabrics. Serial No. 648,242, Nov. 17. Class 42.

Gee Kaye Educational Toys, Inc., New York, N. Y. Educational questions and answer game. Serial No. 639,271, Nov. 17. Class 22.

General Steel, Inc., Minneapolis, Minn. Structural steel beams, joists, steel lath and steel mesh, etc. Serial No. 634,082, Nov. 17. Class 12.

General Tire & Rubber Company, The, Akron, Ohio. Polymerization inhibitor. Serial No. 640,623, Nov. 17. Class 6.

Goldberger Doll Manufacturing Co. Inc., Brooklyn, N. Y. Dolls. Serial No. 647,773, Nov. 17. Class 22.

Goldsmith, Paul, doing business under the name of The Instan Products, Chicago, Ill. Sun tan oil. Serial No. 634,845, Nov. 17. Class 51.

Good-All Electric Manufacturing Company, Ogallala, Nebr. Electric capacitors. Serial No. 647,291, Nov. 17. Class 21.

Good Will Assistance Association, Allentown, Pa. Hospital beds, wheel chairs, crutches, etc. Serial No. 644,981, Nov. 17. Class 44.

Gould, J. D., Company, Indianapolis, Ind. Solenoid controlled valves. Serial No. 643,679, Nov. 17. Class 21.

Grais, M. L., Company: *See*—
Grais, Melvin L.

Grais, Melvin L., doing business as M. L. Grais Company, St. Paul, Minn. Bandage fasteners. Serial No. 647,620, Nov. 17. Class 44.

Great Lakes Corporation, New York, N. Y. Mixture of expanded perlite, bentonite and Portland cement. Serial No. 641,835, Nov. 17. Class 12.

Green Thumb Products, Toledo, Ohio. Garden hose. Serial No. 635,966, Nov. 17. Class 35.

Gustin-Kramer Company, Boston, Mass. Ironing board covers and pads and combinations of ironing board covers and pads. Serial No. 629,488, Nov. 17. Class 24.

Haims & Ettinger, Inc., New York, N. Y. Hosiery. Serial No. 640,735, Nov. 17. Class 39.

Hillman Periodicals, Inc., New York, N. Y. Regular magazine department, feature, or section. Serial No. 647,623, Nov. 17. Class 38.

Holyoke Belting Company, Holyoke, Mass. Leather belting. Serial No. 646,472, Nov. 17. Class 35.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Gasoline engine power sprayer. Serial No. 605,857, Nov. 17. Class 23.

Huff, Alice R., Concord, Calif. Games. Serial No. 645,312, Nov. 17. Class 22.

Ideal Toy Corporation, Hollis, N. Y. Dolls. Serial Nos. 635,035–6, Nov. 17. Class 22.

Illinois Fibre Specialty Co., Chicago, Ill. Fibre padding for chair backs and seats, etc. Serial No. 641,840, Nov. 17. Class 32.

Imperial Chemical (Pharmaceuticals) Limited, London and Millbank, London, England. Anti-malarial and amoebic hepatic. Serial No. 645,485, Nov. 17. Class 18.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Corrosion-resistant steel alloy. Serial No. 646,965, Nov. 17. Class 14.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Motor-driven pumps. Serial No. 646,971, Nov. 17. Class 23.

Instan Products, The: *See*—
Goldsmith, Paul.

International Electric Company, Chicago, Ill. Electric fences and electric fence controllers. Serial No. 632,425, Nov. 17. Class 21.

Jackson, Byron, Co., Los Angeles, Calif. Well tools. Serial No. 626,574, Nov. 17. Class 23.

Jaystik Sales: *See*—
Stickley, John C.

Jenkins, G. C., Co., Decatur, Ill. Celesta and celestette, piano keyboard instruments, chimes, etc. Serial No. 637,925, Nov. 17. Class 36.

Jergens, Andrew, Company, The, Cincinnati, Ohio. Face cream. Serial No. 643,329, Nov. 17. Class 51.

Johnson, M. J., doing business as M. J. Johnson Company, Morristown, N. J. Sales engineering. Serial No. 604,481, Nov. 17. Class 101.

Johnson, M. J., Company: *See*—
Johnson, M. J.

Jordan, Samuel L., Montgomery, Ala. Mechanical exercising devices. Serial No. 645,808, Nov. 17. Class 22.

Kaye-Halbert Corporation, Culver City, Calif. Television receiving sets. Serial No. 639,475, Nov. 17. Class 21.

Kentile, Inc., Brooklyn, N. Y. Preparations in powder form for use in patching and smoothing rough and worn spots in floors. Serial No. 639,173, Nov. 17. Class 12.

Kentucky Distilling Co., Inc., New York, N. Y. Whiskey. Serial No. 633,986, Nov. 17. Class 49.

Kidder Press Company, Inc., Dover, N. H. Printing presses. Serial No. 646,449, Nov. 17. Class 23.

Lakeside Gravel Company, Bellevue, Wash. Concrete building blocks and bricks. Serial No. 639,940, Nov. 17. Class 12.

Lamont, Corliss & Company: *See*—
Nestle Company, Inc., The.

Lepetit, S. P. A., Milan, Italy. Chemotherapeutic antitubercular preparations. Serial No. 634,415, Nov. 17. Class 18.

Lewis, J. P., Co., The, Beaver Falls, N. Y. Laminated paperboard for construction purposes. Serial No. 593,422, Nov. 17. Class 12.

Lipe-Rollway Corporation, Syracuse, N. Y. Automotive friction clutches. Serial No. 646,410, Nov. 17. Class 23.

Lufkin Rule Company, The, Saginaw, Mich. Steel measuring tapes. Serial No. 641,590, Nov. 17. Class 26.

Lyon Metal Products, Incorporated, Aurora, Ill. Service carts, basket trucks, wheeled chair trucks, etc. Serial No. 605,431, Nov. 17. Class 19.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Welding electrodes, tips and shanks. Serial No. 618,460, Nov. 17. Class 14.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Welding electrodes. Serial No. 640,003, Nov. 17. Class 14.

Manchester Hosiery Mills, Manchester, N. H. Hosiery. Serial No. 643,696, Nov. 17. Class 39.

Manifold Supplies Company, Brooklyn, N. Y. Inked ribbons. Serial No. 623,422, Nov. 17. Class 11.

Marquette Corporation, Chicago, Ill. Medicated eye wash. Serial No. 645,722, Nov. 17. Class 18.

Marvan Corporation, The, West Hartford, Conn. Tape for covering joints of wallboards. Serial No. 626,999, Nov. 17. Class 12.

Mathieson Chemical Corporation, Baltimore, Md. Plastic measuring cup. Serial No. 637,488, Nov. 17. Class 26.

Mathieson Chemical Corporation, New York, N. Y. Local anesthetic. Serial No. 647,642, Nov. 17. Class 18.

Mauli, Louis, Co., St. Louis, Mo. Pickles, pickled olives, picalilli, etc. Serial No. 626,892, Nov. 17. Class 46.

McCormick & Company, Incorporated, Baltimore, Md., and San Francisco, Calif. Roasted coffee. Serial No. 624,201, Nov. 17. Class 46.

Middlesex Reed Furniture Company: *See*—
Raffel, John, Sr.

Minnesota Paints, Inc., doing business as Chi-Namel Paint and Varnish Company, Minneapolis, Minn. Paint brushes. Serial No. 651,930, Nov. 17. Class 29.

Mitchell Manufacturing Company, Chicago, Ill. Electrically operated room air conditioning units. Serial No. 586,981, Nov. 17. Class 34.

Mondial Company, Inc., New York, N. Y. Canned fish. Serial No. 594,137, Nov. 17. Class 46.

Moyer, Walter W., Company, Ephrata, Pa. Women's and children's underwear. Serial No. 604,793, Nov. 17. Class 39.

Musica Argentina e Internacional Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina. Grooved phonograph records. Serial No. 632,949, Nov. 17. Class 36.

Nashville Pure Milk Company, Nashville, Tenn. Butter, cottage cheese, fluid whole milk, etc. Serial No. 634,798, Nov. 17. Class 46.

National Ring Traveler Company, assignee: *See*—
Sterling Ring Traveler Company.

Nestle Company, Inc., The, White Plains, N. Y., by change of name and merger of Lamont, Corliss & Company. Prepared cocoa. Serial No. 603,634, Nov. 17. Class 46.

New American Library of World Literature, Inc., The, New York, N. Y. Books. Serial No. 647,312, Nov. 17. Class 38.

Newhall Game Company: *See*—
Newhall, Stanley B.

Newhall, Stanley B., doing business as Newhall Game Company, Tucson, Ariz. Game device. Serial No. 642,158, Nov. 17. Class 22.

New York Rubber Corporation, New York, N. Y. Inflatable mattresses, cushions, and pillows. Serial No. 632,314, Nov. 17. Class 32.

Norcross, Inc., New York, N. Y. Greeting cards and printed greeting folders. Serial No. 647,222, Nov. 17. Class 38.

Nordberg Manufacturing Company, Milwaukee, Wis. Internal combustion engines. Serial No. 647,313, Nov. 17. Class 23.

Norden Laboratories, Lincoln, Nebr. Veterinary medicine. Serial No. 614,058, Nov. 17. Class 18.

Nutrena Mills, Inc., Minneapolis, Minn. Dog food. Serial No. 626,952, Nov. 17. Class 46.

Old Empire Manufacturing Chemists, Incorporated, doing business under the style Marques de Elorza, Newark, N. J. Perfumes, eau de cologne, stick cologne. Serial No. 630,905, Nov. 17. Class 51.

Oneida Ltd., Sherrill and Oneida, N. Y. Sterling silver flatware and hollow-ware. Serial No. 637,787, Nov. 17. Class 28.

Packard Motor Car Company, Detroit, Mich. Vehicles. Serial No. 636,601, Nov. 17. Class 19.

Pangburn Company, Inc., Fort Worth, Tex. Candy. Serial No. 571,039, Nov. 17. Class 46.

Parker Brothers, Inc., Salem, Mass. Board game. Serial No. 642,417 Nov. 17. Class 22.

Parrish, Russell C., doing business as Telsex Company, Springfield, Ohio. Pneumatic tires and tubes. Serial No. 648,187, Nov. 17. Class 35.

Paterson Pacific Parchment Company, San Francisco, Calif. Paper bath mat. Serial No. 637,547, Nov. 17. Class 37.

Pennwood Numechron Co., Pittsburgh, Pa. Electrically operated calendar clocks. Serial No. 643,504, Nov. 17. Class 27.

Perfektum Products Co.: *See*—
Popper & Sons, Inc.

Pillsbury Mills, Inc., Minneapolis, Minn. Cake and pastry flour. Serial No. 637,081, Nov. 17. Class 46.

Plastic Industries, Inc., Kansas City, Mo. Plastic boats. Serial No. 639,390, Nov. 17. Class 19.

Plastic Service Company, Los Angeles, Calif. Toy animals, figures, and dolls. Serial No. 652,224, Nov. 17. Class 22.

Plattner Company, Inc., Kansas City, Mo. Combs. Serial No. 648,192, Nov. 17. Class 40.

Pope Machinery Corporation, Haverhill, Mass. Spindles vertical high speed universal milling machines and precision spindle units. Serial No. 647,039, Nov. 17. Class 23.

Popper Shoe Corporation, The, Boston, Mass. Men's, women's and children's shoes. Serial No. 634,801, Nov. 17. Class 39.

Popper & Sons, Inc., also doing business under the name Perfektum Products Co., New York, N. Y. Machines for the sealing by gas heat, of small glass containers, ampuls, etc. Serial No. 628,293, Nov. 17. Class 34.

Portage Hosiery Company, Portage, Wis. Men's, women's, boys', and girls' athletic hosiery. Serial No. 642,368, Nov. 17. Class 39.

Poythress, Wm. P., & Co., Inc., Richmond, Va. Medicinal preparation. Serial No. 647,719, Nov. 17. Class 18.

Premtex Hosiery Co., Inc., New York, N. Y. Men's hosiery. Serial No. 642,993, Nov. 17. Class 39.

Princeton Knitting Mills, Inc., New York, N. Y. Knitted fabrics. Serial No. 648,044, Nov. 17. Class 42.

Purcupile, Augusta K., Alhambra, Calif. Chart tracing patterns. Serial No. 621,902, Nov. 17. Class 40.

Puritan Stationery Company, Inc., Philadelphia, Pa. Writing paper and mailing envelopes, and tablets of writing paper. Serial No. 647,040, Nov. 17. Class 37.

Puritan Stationery Company, Inc., Philadelphia, Pa. Writing paper and mailing envelopes. Serial Nos. 647,041–2, Nov. 17. Class 37.

Quality Importers, Inc., New York, N. Y. Scotch whiskies. Serial No. 603,380, Nov. 17. Class 49.

Quest Manufacturing Company, Chicago, Ill. Typewriter carbon paper. Serial No. 645,729, Nov. 17. Class 11.

Raffael, John, Sr., doing business as Middlesex Reed Furniture Company, Wakefield, Mass. Rattan furniture, and boudoir chairs. Serial No. 637,399, Nov. 17. Class 32.

Rand McNally & Company, Skokie, Ill. Toy model raft construction kits. Serial No. 648,133, Nov. 17. Class 22.

Rarolite Chemical Co., Inc., Raritan, N. J. Printing inks. Serial No. 613,574, Nov. 17. Class 11.

Read Standard Corporation, New York, N. Y. Bakery mixing machines. Serial No. 638,158, Nov. 17. Class 23.

Read Standard Corporation, New York, N. Y. Baking pan greasing machine. Serial No. 638,159, Nov. 17. Class 23.

Regent Mfg. Co. Inc., Downey, Calif. Lifting jacks. Serial No. 631,578, Nov. 17. Class 23.

Richmond Rubber Company, Inc., Richmond, Va. Pneumatic rubber tires. Serial No. 643,048, Nov. 17. Class 35.

Rilling Dermetics Company, New York, N. Y. Cold wave solutions. Serial No. 638,014, Nov. 17. Class 51.

Rochelle Enterprises: *See*—
Stein, Rochelle M.

Roth Schlenger Incorporated, Newark, N. J. Fuel pumps, carburetors, water pumps, etc. Serial No. 606,489, Nov. 17. Class 23.

Rubinstein, Helena, Inc., New York, N. Y. Lipstick. Serial No. 631,497, Nov. 17. Class 51.

Rudge-Whitworth Limited, Nottingham, England. Bicycles, tricycles, and parts thereof. Serial No. 599,021, Nov. 17. Class 19.

Rudiger-Lang Co., Berkeley, Calif. Complete frameless window screen units. Serial No. 647,234, Nov. 17. Class 12.

Russ, John, Canton, Ohio. Games. Serial No. 631,255, Nov. 17. Class 22.

Salentine, Herbert M., doing business under the fictitious name and style of Salentine Hydraulic Pumping Equipment Co., Los Angeles, Calif. Hydraulic oil well pumping units. Serial No. 637,289, Nov. 17. Class 23.

Salentine Hydraulic Pumping Equipment Co.: *See*—
Salentine, Herbert M.

Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. Serial Nos. 647,879–80, Nov. 17. Class 18.

Schenley Distillers, Inc., New York, N. Y., and Lexington, Ky. Whiskey. Serial No. 641,694, Nov. 17. Class 49.

Sea View Ventilated Awnings, Miami, Fla. Ventilated awnings. Serial No. 642,051, Nov. 17. Class 12.

Selmer, H. & A., Inc., Elkhart, Ind. Twirling batons. Serial Nos. 629,527–8, Nov. 17. Class 36.

Selmer, H. & A., Inc., Elkhart, Ind. Twirling batons. Serial No. 630,037, Nov. 17. Class 36.

Smead Manufacturing Company, The, Hastings, Minn. Correspondence folders, expanding file folders, follow-up file folders, etc. Serial No. 628,964, Nov. 17. Class 37.

Smith and Wesson, Inc., Springfield, Mass. Revolvers. Serial No. 647,376, Nov. 17. Class 9.

Smiths, Incorporated, Fort Worth, Tex. Books. Serial No. 637,730, Nov. 17. Class 38.

Snug-Fit Foundations Company, New York, N. Y. Brassières, foundations, and girdles. Serial No. 634,924, Nov. 17. Class 39.

Societe Anonyme des Eaux Minerales d'Evian-les-Bains, Paris, France. Natural mineral waters. Serial No. 636,614, Nov. 17. Class 45.

Societe Anonyme Societe St-Raphael, Paris, France. Aperitif wines. Serial No. 617,267, Nov. 17. Class 47.

Societe Rhodiaceta, Paris, France. Threads. Serial No. 644,073, Nov. 17. Class 43.

Solar Aircraft Company, San Diego, Calif. Coatings of ceramic known to the trade as frit, etc. Serial No. 643,730, Nov. 17. Class 12.

Spink, Charles C., and Son: *See*—
Sporting Goods Publishing Company, The.

Sporting Goods Publishing Company, The, doing business as Charles C. Spink and Son, St. Louis, Mo. Yearly directory. Serial No. 639,399, Nov. 17. Class 38.

Stamats Publishing Company, Cedar Rapids, Iowa. Periodical publication. Serial No. 647,554, Nov. 17. Class 38.

Standard Brands Incorporated, New York, N. Y. Salad dressing. Serial No. 650,131, Nov. 17. Class 46.

Standard Milling Company, Chicago, Ill. Wheat flour. Serial No. 623,482, Nov. 17. Class 46.

Standard Steel Works, North Kansas City, Mo. Road and street construction and maintenance equipment. Serial No. 644,806, Nov. 17. Class 23.

Stark, Fred, Chicago, Ill. Toys and novelties. Serial No. 634,496, Nov. 17. Class 22.

Statter, Estella E., Olivet, S. Dak. Sanitary napkin belts. Serial No. 639,446, Nov. 17. Class 44.

Stein, Rochelle M., doing business under the name and style of Rochelle Enterprises, Chicago, Ill. Pouch for holding a pair of spectacles. Serial No. 639,199, Nov. 17. Class 26.

Stein, S., & Co., Inc., New York, N. Y. Woolen fabrics. Serial No. 648,142, Nov. 17. Class 42.

Steinberg Bros., New York, N. Y. Women's hosiery and girdles. Serial No. 630,520, Nov. 17. Class 39.

Sterling-Howard Corporation, New York, N. Y. Photographic apparatus. Serial No. 632,802, Nov. 17. Class 26.

Sterling Ring Traveler Company, Fall River, Mass., assignor to National Ring Traveler Company, Pawtucket, R. I. Ring and twister travelers. Serial No. 623,688, Nov. 17. Class 23.

Stickley, John C., doing business as Jaystik Sales, Atlanta, Ga. Puppets. Serial No. 637,152, Nov. 17. Class 22.

Sutherland Paper Company, Kalamazoo, Mich. Cartons. Serial No. 640,817, Nov. 17. Class 2.

Swedlin, J., Inc., New York, N. Y. Stuffed toy dogs. Serial No. 650,749, Nov. 17. Class 22.

Syntex Pharmaceutical Products Co., Inc., Hato Rey, P. R. Hormone. Serial No. 647,894, Nov. 17. Class 18.

Telecomputing Corporation, Burbank, Calif. Apparatus for accurately measuring distances on 35 mm. film. Serial No. 620,329, Nov. 17. Class 26.

Telsex Company: *See*—
Parrish, Russell C.

Titan Chain Saws, Inc., Seattle, Wash. Chain saws. Serial No. 646,697, Nov. 17. Class 23.

Trio Novelty Mfg. Corp., New York, N. Y. Ironing board pad and cover. Serial No. 631,829, Nov. 17. Class 24.

Turner, Georgia B., Oklahoma City, Okla. Paper bibs. Serial No. 600,600, Nov. 17. Class 37.

Ulvsunda Verkstäder Aktiebolag, Stockholm, Sweden. Electro-hydraulically operated grinding machines and wheel-heads therefor. Serial No. 629,703, Nov. 17. Class 23.

U. S. Aluminum Siding Corp., Chicago, Ill., by change of name from U. S. Metal Siding Corporation. Metal roofing and siding. Serial No. 632,401, Nov. 17. Class 12.

United States Bedding Co., The, St. Paul, Minn. Mattresses, box springs, crib mattresses, etc. Serial No. 646,829, Nov. 17. Class 32.

U. S. Metal Siding Corporation: *See*—
U. S. Aluminum Siding Corp.

United States Steel Corporation, Pittsburgh, Pa. Conveyor belting. Serial No. 647,970, Nov. 17. Class 35.

Universal Chemists, Inc., sometimes doing business as Gale Hall Engineering, Boston, Mass., assignor to Gale Hall Engineering, Inc., Exeter, N. H. Gauge. Serial No. 616,148, Nov. 17. Class 26.

Van Ronkel Company, Los Angeles, Calif. Wine. Serial No. 647,669, Nov. 17. Class 47.

Van Wert Manufacturing Co., The, Van Wert, Ohio. Overalls, work and dress shirts, service coats, etc. Serial No. 643,516, Nov. 17. Class 39.

Venus Foundation Garments, Inc., Chicago, Ill. Girdles, panty girdles, corselets, etc. Serial No. 643,450, Nov. 17. Class 39.

Vic Gene Mfg. Co. Inc., Kansas City, Mo. Women's apparel. Serial No. 648,068, Nov. 17. Class 39.

Vietze, Eric, doing business under the trade name and style of Vietze Luminescent Company, Baldwin, N. Y. Paints, pigments for paints, plastic coating compositions. Serial No. 627,476, Nov. 17. Class 16.

Vietze Luminescent Company: *See*—
Vietze, Eric.

Vita-Var Corporation, Newark, N. J. Ready-mixed paints, enamels, and varnishes. Serial No. 635,560, Nov. 17. Class 16.

Vittorio Necchi Società Per Azioni, Pavia, Italy, and New York, N. Y. Sewing machines. Serial No. 646,444, Nov. 17. Class 23.

Webster, William A., Company, The, Memphis, Tenn. Suppositories. Serial No. 647,743, Nov. 17. Class 18.

Webster, William A., Company, The, Memphis, Tenn. Suppositories. Serial No. 647,745, Nov. 17. Class 18.
Weinreich, H., Co. Inc.: *See*—
Weinreich, H., Company Inc.
Weinreich, H., Company Inc. (also known as H. Weinreich Co. Inc.), Philadelphia, Pa. Bracelets, brooches, finger rings, earrings, etc. Serial No. 641,998–9, Nov. 17. Class 28.
Weintrob Bros., Morgantown, W. Va. Men's dress oxfords and work shoes. Serial No. 642,331, Nov. 17. Class 39.
Welcraft Products Co., Inc., North Liberty, Ind. Back rests for seats. Serial No. 627,158, Nov. 17. Class 32.
Wendt, J. E., Richmond, Ill. Colored wall covering. Serial No. 636,621, Nov. 17. Class 12.
Western Fishing Line Co.: *See*—
Western Lace and Line Company.
Western Lace and Line Company, also doing business as Western Fishing Line Co., Glendale, Calif. Fishing line. Serial No. 641,363, Nov. 17. Class 22.
Western Machine Tools Works, Holland, Mich. Machinery—namely, nut tapping machine. Serial No. 620,118, Nov. 17. Class 23.
Weston Electrical Instrument Corporation, Newark, N. J. Electrical instruments and apparatus for the measurement of the moisture content of materials. Serial No. 630,641, Nov. 17. Class 26.
Whirlpool Corporation, St. Joseph, Mich. Electrical ignition system. Serial No. 610,725, Nov. 17. Class 21.
Wiedemann, Geo., Brewing Co., Inc., The, Newport, Ky. Beer. Serial No. 614,230, Nov. 17. Class 48.
Winchester Industries, Inc., River Edge, N. J. Facsimile communication and duplicating equipment. Serial No. 647,254, Nov. 17. Class 21.
Windsor Pen Corp., New York, N. Y. Fountain pens, ball point pens, mechanical pencils and combinations thereof. Serial No. 642,715, Nov. 17. Class 37.
World Cheese Co., New York, N. Y. Cheese. Serial No. 642,002, Nov. 17. Class 46.
Wright, Roy A., Maple Park, Ill. Perfume and cologne. Serial No. 614,600, Nov. 17. Class 51.
Zing Manufacturing Company, San Jose, Calif. Sling shots and arrow shooters. Serial No. 633,188, Nov. 17. Class 22.
Zummach, Wm. F., Inc., Milwaukee, Wis. Paint. Serial No. 647,059, Nov. 17. Class 16.
Zurn, J. A., Mfg. Co., Erie, Pa. Plumbing and drainage products and separating equipment. Serial No. 624,379, Nov. 17. Class 13.
Zurn, J. A., Mfg. Co., Erie, Pa. Drains—namely, roof drains, gutter drains, etc. Serial No. 624,377, Nov. 17. Class 13.

LIST OF REGISTRANTS OF TRADE-MARKS

Aircraft-Marine Products Inc., Harrisburg, Pa. Electrical terminals and other electrical connectors. 582,551, Nov. 17; Serial No. 593,766. Class 21.
Allied Drugs, Inc., Hackensack, N. J. Antihistamine medicine. 582,421, Nov. 17; Serial No. 627,919, published July 28, 1953. Class 18.
Allied Laboratories, Inc., Kansas City, Mo. Veterinary preparation. 582,451, Nov. 17; Serial No. 632,140, published Aug. 25, 1953. Class 18.
Allito Mfg. Co.: *See*—
Shelton, Rubye B.
Aluminum Greenhouses, Inc., Cleveland, Ohio. Prefabricated greenhouses. 582,580, Nov. 17; Serial No. 636,579. Class 12.
American Can Company, New York, N. Y. Friction-top cans, coffee-cans, spice-cans, etc. 92,935, re-renewed Aug. 12, 1953. O. G. Nov. 17. Class 2.
American Can Company, New York, N. Y. Can openers, bottle openers, combined can opening and dispensing devices, etc. 307,989, renewed Nov. 14, 1953. O. G. Nov. 17. Class 23.
American Chain & Cable Company, Inc., Bridgeport, Conn. Water soluble compound for use as a coolant. 582,427, Nov. 17; Serial No. 628,988, published July 28, 1953. Class 6.
American Chewing Products Corp., Newark, N. J. Chewing gum. 582,588, Nov. 17; Serial No. 644,887. Class 46.
American Hardware Corporation, The: *See*—
Corbin, P. & F.
American Hide and Leather Company, Flemington, N. J., and Boston, Mass. Calf leather. 582,504, Nov. 17; Serial No. 641,485, published Aug. 18, 1953. Class 1.
American Hygienic Co., Washington, D. C. Prophylactic articles. 582,429, Nov. 17; Serial No. 629,645, published Aug. 18, 1953. Class 44.
American Institute of Electrical Engineers, New York, N. Y. Monthly periodical. 582,575, Nov. 17; Serial No. 633,955. Class 38.
American Institute of Electrical Engineers, New York, N. Y. Bi-monthly periodical. 582,578, Nov. 17; Serial No. 634,962. Class 38.
American Lava Corporation, Chattanooga, Tenn. Noncorrosive, heat-resisting, fired material derived by combination of materials of mineralogic origin, etc., for use as electric insulation. 305,928, renewed Aug. 29, 1953. O. G. Nov. 17. Class 21.
American Stores Company, Philadelphia, Pa. Imitation strawberry soda, imitation grape soda, imitation cherry soda, etc. 582,379, Nov. 17; Serial No. 590,055, published July 14, 1953. Class 45.
American Wheelabrator & Equipment Corporation, Mishawaka, Ind. Metallic abrasive particles. 582,435, Nov. 17; Serial No. 629,927, published Aug. 25, 1953. Class 4.
Andre French Ice Cream Co., Inc., Brooklyn, N. Y. Bulk and packaged ice-cream, ice-cream sandwiches, bisque tortoni, etc. 582,543, Nov. 17; Serial No. 645,459, published Aug. 4, 1953. Class 46.
Anglo Fabrics Company, Inc., New York, N. Y. Wool, rayon, cotton, and silk piece goods. 582,560, Nov. 17; Serial No. 622,062. Class 42.
Ansul Chemical Company, Marinette, Wis. Coil-flushing gun. 582,486, Nov. 17; Serial No. 639,606, published July 7, 1953. Class 23.
Archer Mills, Inc., Columbus, Ga. Ladies' hosiery. 582,581, Nov. 17; Serial No. 636,581. Class 39.
Armand Company, The, Des Moines, Iowa. Face cream. 582,387, Nov. 17; Serial No. 606,962, published Sept. 30, 1952. Class 51.
Armour and Company, Chicago, Ill. Oxytocin preparation used as a veterinary medicine. 582,505, Nov. 17; Serial No. 641,537, published July 28, 1953. Class 18.
Automotive Accessories Mfg. Co., Chicago, Ill. Automobile steering wheel covers. 582,552, Nov. 17; Serial No. 597,655. Class 19.
Aztec Corporation, Philadelphia, Pa. Plastic tile. 582,495, Nov. 17; Serial No. 640,543, published June 23, 1953. Class 12.
Baker, George, Beverly Hills, Calif. Magazine. 582,438, Nov. 17; Serial No. 630,256, published Aug. 18, 1953. Class 38.
Barbey Packing Corporation, Astoria, Oreg. Fresh, frozen, and canned fish; and canned shad roe. 582,545, Nov. 17; Serial No. 646,046, published Aug. 11, 1953. Class 46.
Barzen Company, Minneapolis, Minn. Lawn and field seed. 582,469, Nov. 17; Serial No. 636,056, published Aug. 18, 1953. Class 1.
Bates, C. J., & Son, Chester, Conn. Manicure articles. 582,550, Nov. 17; Serial No. 583,312. Class 44.
Bayer Semesan Company, Inc., to E. I. du Pont de Nemours and Company, Wilmington, Del. General horticultural disinfectant. 305,724, renewed Aug. 22, 1953. O. G. Nov. 17. Class 6.
Beard, Thomas G.: *See*—
McKenna, John P.
Beatrice Foods Co., Chicago, Ill. Butter; oleomargarine; eggs, etc. 582,470, Nov. 17; Serial No. 636,582, published Aug. 4, 1953. Class 46.
Becton Dickinson and Company, Rutherford, N. J. Hypodermic syringes. 582,393, Nov. 17; Serial No. 615,106, published Feb. 12, 1952. Class 44.
Bendix Aviation Corporation: *See*—
Eclipse Machine Company.
Benedict Packing Corporation, New York, N. Y. Canned and bottled onions and pickles. 582,576, Nov. 17; Serial No. 634,445. Class 46.
Berkowitz, Harold, assignee: *See*—
Weld, Maria F.
Block, Harry J., Ellensburg, Wash., to The Wm. S. Merrell Company, Cincinnati, Ohio. Germicidal and antiseptic preparation. 305,556, renewed Aug. 22, 1953. O. G. Nov. 17. Class 51.
Blousemaker, Inc., New York, N. Y. Ladies' blouses. 582,394, Nov. 17; Serial No. 615,304, published Apr. 7, 1953. Class 39.
Bodine, W. O., assignee: *See*—
Loma Manufacturing Company, The.
Boles, Edwin L., Pacific Palisades, Calif. Multiple deck, rolling ball puzzle. 582,548, Nov. 17; Serial No. 647,986, published Aug. 18, 1953. Class 22.
Bourjois, Inc.: *See*—
Societe d'Etudes, de Recherches, de Representation et d'Exploitation (S. E. R. R. E.) Societe a Responsabilite Limitee.
Bowlby, Byron J., doing business under the style name of Bowlby Candy Company, Appleton, Wis. Candies. 582,392, Nov. 17; Serial No. 614,397, published Aug. 11, 1953. Class 46.
Bowlby Candy Company: *See*—
Bowlby, Byron J.
Bradley, Milton, Company, Springfield, Mass. Board game. 582,546, Nov. 17; Serial No. 647,591, published Aug. 18, 1953. Class 22.

Briggs Manufacturing Co., Detroit, Mich. Sinks, lavatories, and bathtubs. 307,023, renewed Oct. 10, 1953. O. G. Nov. 17. Class 13.
Bucyrus-Erie Company, Wilmington, Del., and South Milwaukee, Wis. Transmissions in power excavators. 582,445, Nov. 17; Serial No. 631,461, published June 23, 1953. Class 23.
Butterworth System, Incorporated, Bayonne, N. J. Tank cleaning machines. 582,378, Nov. 17; Serial No. 589,422, published July 7, 1953. Class 23.
Candy Specialties Company, Chicago, Ill. Candy. 306,336, renewed Sept. 19, 1953. O. G. Nov. 17. Class 46.
Carew Manufacturing Company, South Hadley Falls, by Valley Paper Company, Holyoke, Mass. Bond paper. 215,037, July 6, 1926. Republished Nov. 17. Class 37.
Carter Coal Company, Washington, D. C., to Olga Coal Company, Youngstown, Ohio. Coal. 309,148, renewed Jan. 2, 1954. O. G. Nov. 17. Class 1.
Central Chemical Company, Kansas City, Mo. Surgical soap. 582,456, Nov. 17; Serial No. 632,826, published Aug. 18, 1953. Class 52.
Chain, Sol D.: *See*—
Colony Broadcasting Corporation, The.
Chase Bottling Co.: *See*—
Home Bottling Works.
Chase, Jamie S.: *See*—
Home Bottling Works.
Cherry-Burrell Corporation, Chicago, Ill. Automatic and hand operated bottle filling and capping machinery. 582,484, Nov. 17; Serial No. 638,938, published July 7, 1953. Class 23.
Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Hormone preparation. 582,457, Nov. 17; Serial No. 632,921, published Aug. 25, 1953. Class 18.
Ciba Pharmaceutical Products, Inc., assignee: *See*—
Ciba Limited.
Clairol Incorporated, Stamford, Conn. Hair shade lightening preparations. 582,400, Nov. 17; Serial No. 620,802, published Aug. 4, 1953. Class 51.
Cleveland Graphite Bronze Company, The, Cleveland, Ohio. Automotive vehicle chassis parts. 582,563, Nov. 17; Serial No. 624,076. Class 19.
Cleveland Heater Company, The, Cleveland, Ohio. Gas, oil, vapor burning water heaters, and their structural parts. 582,418, Nov. 17; Serial No. 626,932, published July 28, 1953. Class 34.
Cohen, Joseph H., & Sons, Inc., New York, N. Y. Men's clothing. 582,574, Nov. 17; Serial No. 632,827. Class 39.
Colony Broadcasting Corporation, The, New Haven, to S. D. Chain, Hamden, Conn. Periodicals. 569,172, Jan 13, 1953. New certificate. O. G. Nov. 17. Class 38.
Colorado Milling & Elevator Co., The, Denver, Colo. Cake flour, pancake flour, biscuit flour. 309,662, renewed Feb. 6, 1954. O. G. Nov. 17. Class 46.
Compagnie Franco Australienne De Laines Filees, to Compagnie Franco Australienne De Laines Filees, Societe a Responsabilite Limitee, Roubaix, France. Woolen thread and yarn. 303,410, renewed May 23, 1953. O. G. Nov. 17. Class 43.
Compagnie Franco Australienne De Laines Filees, to Compagnie Franco Australienne De Laines Filees, Societe a Responsabilite Limitee, Roubaix, France. Woolen thread and yarn. 303,413, renewed May 23, 1953. O. G. Nov. 17. Class 43.
Compagnie Franco Australienne De Laines Filees, Societe a Responsabilite Limitee: *See*—
Compagnie Franco Australienne De Laines Filees.
Comptoir de l'Industrie Cotonniere Société a Responsabilité Limitée, Paris, France. Junior misses', misses', and ladies' coats, dresses, gowns, etc. 582,398, Nov. 17; Serial No. 619,486, published July 21, 1953. Class 39.
Continental Distilling Corporation: *See*—
United Distillers Limited.
Cooper, O. A., Company, The, Humboldt and Beatrice, Nebr. Feed supplement. 582,567, Nov. 17; Serial No. 625,971. Class 18.
Copperstate Supply Company, assignee: *See*—
Loma Manufacturing Company, The.
Corbin, P. & F., to The American Hardware Corporation, New Britain, Conn. Locks and latches. 41,961, renewed Jan. 26, 1954. O. G. Nov. 17. Class 25.
Costello, John H., St Louis, Mo. Cottage cheese and frozen confection. 582,431, Nov. 17; Serial No. 629,721, published Aug. 11, 1953. Class 46.
Courtaulds Limited, London, England. Artificial staple fibres. 582,480, Nov. 17; Serial No. 638,068, published Aug. 18, 1953. Class 1.
Cowles Broadcasting Company, Des Moines, Iowa. Instructing in the fundamentals of sport and in the basic principles of music and science, etc. 582,590, Nov. 17; Serial No. 615,629. Class 107.
Creative Workshop, The: *See*—
Weld, Maria F.
Crown Zellerbach Corporation, San Francisco, Calif. Solids of waste sulfite liquor, for use as a road binder. 582,489, Nov. 17; Serial No. 639,811, published June 23, 1953. Class 12.
Dalin Pharmaceuticals, Inc., Long Island City, N. Y. Aqueous multivitamin drops. 582,533, Nov. 17; Serial No. 645,117, published Aug. 25, 1953. Class 18.
Davies-Young Soap Company, The, Dayton, Ohio. Powdered soap. 582,412, Nov. 17; Serial No. 623,710, published Aug. 25, 1953. Class 52.
Delano Corporation of America, New York, N. Y. Porter or malt liquor. 582,384, Nov. 17; Serial No. 602,894, published July 28, 1953. Class 48.
Denkert, M., & Company, Johnstown, N. Y. Footballs, basketballs, volley balls and striking bags. 582,566, Nov. 17; Serial No. 625,791. Class 22.
Denni Hiasatel Printing & Publishing Co., Inc., Chicago, Ill. Series of books. 582,515, Nov. 17; Serial No. 642,203, published Aug. 18, 1953. Class 38.
Detrex Corporation: *See*—
Rex Products & Mfg. Company.
De Witt Carpets, Inc., New York, N. Y. Wool and wool and rayon twist velvet carpet. 582,526, Nov. 17; Serial No. 643,583, published Aug. 18, 1953. Class 42.
Dickstein, George, Dupont, Pa. Knee patches. 582,561, Nov. 17; Serial No. 622,146. Class 40.
Dilbeck Company, The: *See*—
Dilbeck, Thomas C.
Dilbeck, Thomas C., doing business as The Dilbeck Company, Los Angeles, Calif. Medicament. 582,518, Nov. 17; Serial No. 642,953, published Aug. 18, 1953. Class 18.
Dixie Distributors Incorporated, Ann Arbor, to Dixie Distributors Incorporated, Detroit, Mich. Gasoline. 306,958, renewed Oct. 10, 1953. O. G. Nov. 17. Class 15.
Donnelley, Reuben H., Corporation, The, Chicago, Ill. Periodical publication. 582,582, Nov. 17; Serial No. 636,780. Class 38.
Doran, H. C., Co.: *See*—
Doran, Henry C.
Doran, Henry C., doing business as H. C. Doran Co., Battle Creek, Mich. Special deck of cards. 582,417, Nov. 17; Serial No. 626,785, published Aug. 18, 1953. Class 22.
Drake, Buddie P., South Bend, Ind. Automobile road maps. 582,490, Nov. 17; Serial No. 639,875, published Aug. 18, 1953. Class 38.
Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. 582,516–17, Nov. 17; Serial Nos. 642,528–9, published July 28, 1953. Class 18.
Du Pont, E. I., de Nemours and Company: *See*—
Bayer Semesan Company, Inc.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Cyanid salts. 307,873, renewed Nov. 7, 1953. O. G. Nov. 17. Class 6.
Eclipse Machine Company, to Bendix Aviation Corporation, Elmira Heights, N. Y. Unitary automatic electrical starting mechanism. 304,786, renewed July 18, 1953. O. G. Nov. 17. Class 21.
Economics Laboratory, Inc., St. Paul, Minn., to L. G. Williams, doing business as Satinwax Products Distributors, Oakland, Calif. Liquid polishing wax. 305,783, renewed Aug. 22, 1953. O. G. Nov. 17. Class 4.
Elasti-Seal Marine Products, Inc., Oak Park, Ill. Row boats and outboard motor boats. 582,380, Nov. 17; Serial No. 590,737, published Aug. 18, 1953. Class 19.
Electric Steel Foundry, Portland, Oreg. Pulp mill equipment, sawmill equipment, etc. 582,374, Nov. 17; Serial No. 579,867, published June 23, 1953. Class 23.
Electro-Snap Switch & Mfg. Co., Chicago, Ill. Coin-controlled amusement game apparatus. 582,579, Nov. 17; Serial No. 635,297. Class 22.
Elgin National Watch Company, Elgin and Chicago, to Elgin National Watch Company, Elgin, Ill. Watch-movements. 93,432, re-renewed Sept. 16, 1953. O. G. Nov. 17. Class 27.
Emrich, George J., Columbus, Ohio. Gas, oil, and coal fired stoves and space heaters. 582,511, Nov. 17; Serial No. 642,130, published July 28, 1953. Class 34.
Erlanger, N. Blumgart & Co., Inc., New York, N. Y. Fabrics. 582,577, Nov. 17; Serial No. 634,452. Class 42.
Escudier, Anton F., Chicago, Ill. Telescopes and binoculars in the nature of toys. 582,538–9, Nov. 17; Serial Nos. 645,400–1, published Aug. 18, 1953. Class 22.
Estey Piano Corp., Bluffton, Ind. Pianos. 582,419, Nov. 17; Serial No. 627,258, published Aug. 18, 1953. Class 36.
Evans, John R., & Company, Camden, N. J. Leather. 582,447, Nov. 17; Serial No. 631,657, published Aug. 18, 1953. Class 1.
Fabrica de Tabacos J. F. Rocha, S. A.: *See*—
Walters & Co.
Factor, Max, & Co., Hollywood, Calif. Cosmetics, theatrical make-up and similar preparations. 582,522, Nov. 17; Serial No. 643,307, published Aug. 25, 1953. Class 51.
Fairchild Publications, Inc., New York, N. Y. Newspaper column or columns. 582,530, Nov. 17; Serial No. 644,106, published Aug. 18, 1953. Class 38.
Famous Sales Company, Chicago, Ill. Lubricating oils and greases. 320,548, Jan. 1, 1935. Amended. O. G. Nov. 17. Class 15.
Farmaceutici Italia S. A., Milan, Italy. Pharmaceutical product. 582,453, Nov. 17; Serial No. 632,361, published Aug. 18, 1953. Class 18.
Feis, R. F., San Juan, P. R. Coconuts. 582,540, Nov. 17; Serial No. 645,406, published Aug. 11, 1953. Class 46.
Finkelstein, Jacob, trading as Norris Laboratories, Norristown, Pa. Animal feed supplement. 582,528, Nov. 17; Serial No. 643,948, published Aug. 25, 1953. Class 18.

Firestone Tire & Rubber Company, The, Akron, Ohio. Garments. 305,593, renewed Aug. 22, 1953. O. G. Nov. 17. Class 39.

Florasynth Labortaories, Inc., New York, N. Y. Pure vanilla concentrate. 306,474, renewed Sept. 19, 1953. O. G. Nov. 17. Class 46.

Food Machinery and Chemical Corporation, San Jose, Calif. Acetyl peroxide, ammonium persulfate, barium nitrate, etc. 582,536, Nov. 17; Serial No. 645,298, published Aug. 25, 1953. Class 6.

Foremost Dairies, Inc., Jacksonville, Fla. Orangeade. 582,497, Nov. 17; Serial No. 640,929, published July 28, 1953. Class 45.

Frankel, Samuel, New York, to S. Frankel, Bell Harbor, N. Y. Alloy. 305,938, renewed Aug. 29, 1953. O. G. Nov. 17. Class 14.

Frozen Food Age Publishing Co., Inc., New York, N. Y. Monthly publications. 582,440, Nov. 17; Serial No. 630,593, published Aug. 18, 1953. Class 38.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 582,524–5, Nov. 17; Serial Nos. 643,544–5, published Aug. 18, 1953. Class 42.

Gaynes, Incorporated, New York, N. Y. Women's suits, coats, dresses, jackets. 582,573, Nov. 17; Serial No. 632,519. Class 39.

Geigy Company, Inc., New York, N. Y. Dyes and chemicals. 304,961, July 25, 1933. Republished Nov. 17. Class 6.

General Flavoring Extract Co.: *See*—
Greiser, Lewis C.

General Tire & Rubber Company, The, Akron, Ohio. Flexible polymeric material. 582,430, Nov. 17; Serial No. 629,662, published Aug. 4, 1953. Class 1.

Gerson-Stewart Corporation Company, The, Cleveland, Ohio. Disinfectant. 582,467, Nov. 17; Serial No. 634,251, published Aug. 25, 1953. Class 6.

Gey Products Corporation, Cambridge, Mass. Cigarette lighter fuel filler. 582,510, Nov. 17; Serial No. 641,834, published Aug. 4, 1953. Class 8.

Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Metal cutting tools, generally boring tools and block-type cutters; etc. 582,397, Nov. 17; Serial No. 618,740, published July 7, 1953. Class 23.

Gift Horse Creations: *See*—
Stackpole, Milton E.

Giulietti Accordion Corporation, New York, N. Y. All types of accordions. 582,415, Nov. 17; Serial No. 625,268, published Aug. 25, 1953. Class 36.

Glaser, Crandell Co., Chicago, Ill. Cucumber relish and cucumber slices. 582,487, Nov. 17; Serial No. 639,631, published Aug. 11, 1953. Class 46.

Greiser, Lewis C., doing business as General Flavoring Extract Co., Cincinnati, Ohio. Non-alcoholic, non-cereal, maltless beverages. 582,472, Nov. 17; Serial No. 636,704, published July 14, 1953. Class 45.

Grove Laboratories, Inc.: *See*—
Paris Medicine Company, The.

Hammarlund Manufacturing Company, Inc., The, New York, N. Y. Remote supervisory control equipment. 582,553, Nov. 17; Serial No. 602,450. Class 21.

Hancock Iron Works, Pontiac, Mich. Outdoor fireplace units. 582,493, Nov. 17; Serial No. 640,458, published July 14, 1953. Class 34.

Hart, Schaffner & Marx, Chicago, Ill. Men's coats, vests, trousers, etc. 307,174, renewed Oct. 17, 1953. O. G. Nov. 17. Class 39.

Harte & Co.: *See*—
Harte, Ralph S.

Harte & Company, Inc., New York, N. Y. Waterproof piece goods. 383,963, Dec. 31, 1940. Republished Nov. 17. Class 42.

Harte, Ralph S., doing business as Harte & Co., New York, by Plicose Manufacturing Corporation, Brooklyn, N. Y. Cellulose processed waterproof materials. 372,659, Nov. 7, 1939. Republished Nov. 17. Class 42.

Heatherbloom Corporation, The, New York, N. Y. Textile piece goods. 582,454, Nov. 17; Serial No. 632,424, published Feb. 10, 1953. Class 42.

Henning Electric Motor Co.: *See*—
Henning, Frederick E.

Henning, Frederick E., doing business as Henning Electric Motor Co., Fargo, N. Dak. Earth drilling augers. 582,450, Nov. 17; Serial No. 631,989, published July 7, 1953. Class 23.

Hewitt Soap Company, Inc., The, Dayton, Ohio. Sudsing cleaner, cleanser and detergent. 582,414, Nov. 17; Serial No. 624,647, published Aug. 18, 1953. Class 52.

Hill and Range Songs, Inc., Beverly Hills, Calif. Published musical compositions. 582,521, Nov. 17; Serial No. 643,229, published Aug. 18, 1953. Class 38.

Home Bottling Works, by J. S. Chase, doing business as Chase Bottling Co., Memphis, Tenn. Nonalcoholic, noncereal, maltless beverages, and sirups for making the same. 154,056, Apr. 4, 1922. Republished Nov. 17. Class 45.

Honey Packers, Inc., New York, N. Y., by R. F. Remer, Sioux City, Iowa. Honey. 342,822, Feb. 2, 1937. Republished Nov. 17. Class 46.

Houghton, E. F., & Co., Philadelphia, Pa. Textile mill leathers, namely leather check straps. 582,386, Nov. 17; Serial No. 603,872, published June 23, 1953. Class 23.

Hubbard, J., & Co.: *See*—
Miller, Louise.

Hull Dye Works, Derby, Conn. Dyeing and treating fabrics. 582,591, Nov. 17; Serial No. 633,494. Class 106.

Hunter Milling Company, The, Wellington, Kans. Wheat-flour. 92,077, re-renewed June 17, 1953. O. G. Nov. 17. Class 46.

Hydraulics Publishing Company, The, Cleveland, Ohio. Publication. 582,564, Nov. 17; Serial No. 624,833. Class 38.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Self-hardening, acid- and water-proof construction cements. 305,707, renewed Aug. 22, 1953. O. G. Nov. 17. Class 12.

Independent Casing Company, to Independent Casing Corporation, Chicago, Ill. Sausage casings. 308,244, renewed Nov. 28, 1953. O. G. Nov. 17. Class 46.

Independent Casing Corporation: *See*—
Independent Casing Company.

Independent Nail & Packing Company Inc., The, Bridgewater, Mass. Nails. 367,448, May 16, 1939. Republished Nov. 17. Class 13.

Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation, Bentonite, blanc rouge, china clay, etc. 582,401–2, Nov. 17; Serial Nos. 621,014–15, published Aug. 4, 1953. Class 1.

International Milling Company: *See*—
Robin Hood Mills, Limited.

International Minerals & Chemical Corporation: *See*—
Innis, Speiden & Co., Inc.

International Nickel Company, Inc., The, New York, N. Y. Nickel alloys and alloys of nickel, chromium, and iron. 308,200, renewed Nov. 21, 1953. O. G. Nov. 17. Class 14.

Isgo Wall Paper Corporation, Chicago, Ill. Wall paper. 582,587, Nov. 17; Serial No. 642,356. Class 37.

Jungerich, Frank L., St. Louis, Mo. Aspirin tablets. 582,376, Nov. 17; Serial No. 584,496, published Aug. 4, 1953. Class 18.

Jackson & Church Company, Saginaw, Mich. Heating furnaces, autoclaves. 582,406, Nov. 17; Serial No. 622,498, published July 7, 1953. Class 34.

Johnson Educator Food Company, Boston, to Megowen-Educator Food Company, Lowell, Mass. Biscuit. 93,858, re-renewed Oct. 21, 1953. O. G. Nov. 17. Class 46.

Johnson Educator Food Company, Cambridge, to Megowen-Educator Food Company, Lowell, Mass. Crackers. 303,230, renewed May 16, 1953. O. G. Nov. 17. Class 46.

Kanehl, Lester H., Oklahoma City, Okla. Textile towels. 582,568, Nov. 17; Serial No. 626,577. Class 42.

Kantor Bros. Neckwear Co., Brooklyn, N. Y. Cravats. 582,570, Nov. 17; Serial No. 627,191. Class 39.

Kenya Gem Corporation, Philadelphia, Pa. Unset synthetic gems and synthetic gems set in jewelry mountings. 582,410, Nov. 17; Serial No. 623,309, published June 23, 1953. Class 28.

Koch, Edward C., Highland, Ill. Sport nets. 582,583, Nov. 17; Serial No. 636,895. Class 22.

Kohler Co., Sheboygan, Wis. Bath-tubs, lavatories, sinks, water-closets, etc. 94,999, re-renewed Jan. 20, 1954. O. G. Nov. 17. Class 13.

Kono Manufacturing Company, The, Woodside, N. Y. Resinous plastic mtaerial. 582,483, Nov. 17; Serial No. 638,654, published Aug. 4, 1953. Class 1.

Kontney Candy Co.: *See*—
Kontney, Fabian.

Kontney, Fabian, doing business as Kontney Candy Co., Green Bay, Wis. Candied popcorn confections. 582,408, Nov. 17; Serial No. 622,831, published Aug. 11, 1953. Class 46.

Kratt, Wm., Co., Union, N. J. Pitch pipes. 582,496, Nov. 17; Serial No. 640,637, published Aug. 25, 1953. Class 36.

Kreiss, Sidney J., Inc., New York, N. Y. Ladies' hosiery. 582,569, Nov. 17; Serial No. 626,889. Class 39.

Kurtzman Brothers, Los Angeles, Calif. Men's suits and topcoats. 582,571, Nov. 17; Serial No. 628,281. Class 39.

Landers, Frary & Clark, Hartford and New Britain, Conn. Electrically-heated chafing dishes, etc. 306,151, Sept. 12, 1933. Amended. O. G. Nov. 17. Class 21.

Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Toilet soap. 307,871, renewed Nov. 7, 1953. O. G. Nov. 17. Class 52.

Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Toilet cream, medicated preparations. 308,089, renewed Nov. 21, 1953. O. G. Nov. 17. Class 51.

Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Toilet water. 308,090, renewed Nov. 21, 1953. O. G. Nov. 17. Class 51.

Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Cathartic pills, sarsaparilla, witch hazel extracts; etc. 308,410, renewed Dec. 5, 1953. O. G. Nov. 17. Class 51.

Lawrence Machine and Pump Corporation, Lawrence, Mass., now by change of name Lawrence Pumps Inc. Centrifugal pumps. 582,458, Nov. 17; Serial No. 633,111, published July 21, 1953. Class 23.

Lawrence Pumps Inc.: *See*—
Lawrence Machine and Pump Corporation.

Lee Rubber and Tire Corporation: *See*—
Republic Rubber Company, The.

Leeds Ltd. Coats, Inc., by Leeds Ltd. Coats, Inc., New York, N. Y. Women's, misses', and juniors' coats, suits, jackets, etc. 392,528, Dec. 30, 1941. Republished Nov. 17. Class 39.

Lewis, Barnard J.: *See*—
Stetson Press, The.

Libbey-Owens-Ford Glass Company, Toledo, Ohio. Mats, bats, and sheets of fibrous glass. 582,519, Nov. 17; Serial No. 643,039, published Aug. 25, 1953. Class 1.

Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. 582,520, Nov. 17; Serial No. 643,169, published Aug. 4, 1953. Class 17.

Lincoln Engineering Company, St. Louis, Mo. Portable lubricant dispensing apparatus. 305,343, renewed Aug. 15, 1953. O. G. Nov. 17. Class 23.

Logan Seed Company, Inc., The, Gilliam, La. Seed corn and cotton seed. 582,433, Nov. 17; Serial No. 629,804, published Aug. 18, 1953. Class 1.

Loma Manufacturing Company, The, assignor to W. O. Bodine, doing business as Copperstate Supply Company, Phoenix, Ariz. Kiln-fired glazed earthenware. 582,416, Nov. 17; Serial No. 626,465, published June 23, 1953. Class 30.

Lonza Elektrizitatswerke und Chemische Fabriken Aktiengesellschaft, Gampel and Basel, Switzerland. Agglomerates of solid aldehyde, solid methyl alcohol, etc. 306,296, renewed Sept. 12, 1953. O. G. Nov. 17. Class 6.

Lumin Sales Corporation, New York, N. Y. Cleaner for cleaning metal, and a wash for cleaning metal, lacquered, and painted surfaces. 582,475, Nov. 17; Serial No. 636,989, published Aug. 18, 1953. Class 52.

Lurline Products Company, Woodmere, N. Y. Hypodermic syringes. 582,441, Nov. 17; Serial No. 630,602, published Aug. 18, 1953. Class 44.

Lyon Metal Products, Incorporated, Aurora, Ill. Storage lockers; parts of and accessories for storage lockers, etc. 582,373, Nov. 17; Serial No. 570,974, published Aug. 18, 1953. Class 32.

Magazine Publishers, Inc., Chicago, Ill. Comic magazines. 582,523, Nov. 17; Serial No. 643,496, published Aug. 11, 1953. Class 38.

Mallometer Company, Detroit, Mich., to Pitney-Bowes, Inc., Stamford, Conn. Combined sealing and stamping machines and sealing-machines. 93,103, re-renewed Aug. 19, 1953. O. G. Nov. 17. Class 23.

Mam'selle Lingerie, Inc., New York, N. Y. Children's panties. 582,565, Nov. 17; Serial No. 625,747. Class 39.

Marine Chemicals Company, Ltd., doing business as Marinesia Laboratories, San Francisco and South San Francisco, Calif., to Merck & Co., Inc., Rahway, N. J., and South San Francisco, Calif. Pharmaceutical preparation. 307,488, renewed Oct. 24, 1953. O. G. Nov. 17. Class 51.

Marinesia Laboratories: *See*—
Marine Chemicals Company, Ltd.

McKenna, John F., to T. G. Beard, Los Angeles, Calif. Concentrated food. 305,777, renewed Aug. 22, 1953. O. G. Nov. 17. Class 46.

Megowen-Educator Food Company: *See*—
Johnson Educator Food Company.

Mentoll Co.: *See*—
Shofner, Eugene F.

Merck & Co., Inc.: *See*—
Marine Chemicals Company, Ltd.

Meredith Publishing Company, Des Moines, Iowa. Magazine section. 582,491, Nov. 17; Serial No. 640,349, published Aug. 18, 1953. Class 38.

Merrell, Wm. S., Company, The: *See*—
Block, Harry J.

Merrick Medicine Co., The: *See*—
Merrick Medicine Company.

Merrick Medicine Company, also doing business as The Merrick Medicine Co., Waco, Tex. Astringent for sour stomach, heartburn, acid eructations, etc. 582,482, Nov. 17; Serial No. 638,428, published July 28, 1953. Class 18.

Metropolitan Laboratories, Inc., Oyster Bay, N. Y. Injectable medicament. 582,395, Nov. 17; Serial No. 615,845, published July 28, 1953. Class 18.

Midcontinent Adhesive Company, Grove City, Ohio. Solvent type cement. 582,413, Nov. 17; Serial No. 624,098, published Aug. 25, 1953. Class 5.

Midland Cooperative Dairy Association, Shawano, Wis., and Syracuse, N. Y. Evaporated milk. 582,541, Nov. 17; Serial No. 645,422, published Aug. 4, 1953. Class 46.

Mid-West Dental Manufacturing Co.: *See*—
Staunt, Martin.

Miller, Florence: *See*—
Miller, Florence O.

Miller, Florence O., doing business as Florence Miller, Dallas, Tex. Liquid skin cleanser, skin freshener, non-alcoholic liquid skin astringent, etc. 582,432, Nov. 17; Serial No. 629,743, published Aug. 4, 1953. Class 51.

Miller, Louise, West Sommerville, Mass., by J. Hubbard & Co., doing business as Odor-Never Co., Nashua, N. H. Prevention of excessive perspiration. 142,049, May 3, 1921. Republished Nov. 17. Class 51.

Millers Falls Company, Greenfield, Mass. Planes, braces, auger handles, etc. 582,375, Nov. 17; Serial No. 582,179, published June 23, 1953. Class 23.

Milligan Bros. System, Jefferson, Iowa. Chemical preparation having adhesive properties. 582,501, Nov. 17; Serial No. 641,147, published Aug. 25, 1953. Class 5.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Adhesives, etc. 351,358, Oct. 26, 1937. Amended. O. G. Nov. 17. Class 5.

Minwax Company, Inc., New York, N. Y. Caulking and filling compounds, metal shapes and caps for masonry joints, etc. 582,439, Nov. 17; Serial No. 630,543, published Aug. 4, 1953. Class 12.

Modern Sales Company, Los Angeles, Calif. Combination ice pick, bottle opener, seal breaker, etc. 582,498, Nov. 17; Serial No. 640,950, published July 7, 1953. Class 23.

Moran Shoe Company: *See*—
Moran Shoe Company, Inc., The.

Moran Shoe Company, Inc., The, to Moran Shoe Company, Caryle, Ill. Shoes. 305,669, renewed Aug. 22, 1953. O. G. Nov. 17. Class 39.

Moran Shoe Company, Inc., The, to Moran Shoe Company, Carlyle, Ill. Shoes. 303,794, renewed June 6, 1953. O. G. Nov. 17. Class 39.

Morganton Furniture Company, Morganton, N. C. Dining room furniture and bedroom furniture. 582,446, Nov. 17; Serial No. 631,627, published Aug. 18, 1953. Class 32.

Mulhern, John, Company, San Francisco, Calif. Extracts, concentrates, compounds, and flavoring preparations. 582,390, Nov. 17; Serial No. 611,445, published July 21, 1953. Class 45.

Munising Paper Company, The, Chicago, Ill. Fibrous material adapted for uses similar to that of oilcloth. 444,050, June 27, 1950. Republished Nov. 17. Class 20.

Murray Hill Restaurant, Inc., New York, N. Y. Sauce. 350,864–5, Oct. 12, 1937. Republished Nov. 17. Class 46.

Naamlooze Vennootschap Hero Conserven Breda, Teteringen, near Breda, Netherlands. Non-alcoholic maltless beverage. 305,915, renewed Aug. 29, 1953. O. G. Nov. 17. Class 45.

National Lead Company: *See*—
National Pigments & Chemical Company.

National Pigments & Chemical Company, St. Louis, Mo., to National Lead Company, New York, N. Y. Barytes. 307,568, renewed Oct. 31, 1953. O. G. Nov. 17. Class 1.

Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow cases. 582,512, Nov. 17; Serial No. 642,157, published Aug. 18, 1953. Class 42.

Nopco Chemical Company: *See*—
Nopco Laboratories, Inc.

Nopco Laboratories, Inc., to Nopco Chemical Company, Harrison, N. J. Vitamine D-carrying menstruum for ingredients of breads, biscuits, etc. 306,141, renewed Sept. 12, 1953. O. G. Nov. 17. Class 46.

Noroian, George, Company, Dinuba, Calif. Canned fruits, canned berries, and fresh grapes. 582,477, Nov. 17; Serial No. 637,498, published Aug. 11, 1953. Class 46.

Norris Laboratories: *See*—
Finkelstein, Jacob.

North American Polish Company, The, to North American Polish Corporation, Cleveland, Ohio. Liquid metal polish. 306,780, renewed Sept. 26, 1953. O. G. Nov. 17. Class 4.

North American Polish Company, The, to North American Polish Corporation, Cleveland, Ohio. Metal polish. 306,781, renewed Sept. 26, 1953. O. G. Nov. 17. Class 4.

North American Polish Corporation: *See*—
North American Polish Company, The.

Oakley, Annie, Enterprises, assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif. Watches. 582,404, Nov. 17; Serial No. 621,097, published June 23, 1953. Class 27.

Oakley, Annie, Enterprises, Inc.: *See*—
Oakley Annie, Enterprises.

Odor-Never Co.: *See*—
Miller, Louise.

Olga Coal Company: *See*—
Carter Coal Company.

Ortho Pharmaceutical Corporation, Raritan, N. J. Massage cream. 582,478, Nov. 17; Serial No. 637,609, published Aug. 4, 1953. Class 51.

Outboard, Marine & Manufacturing Company, Waukegan, Ill. Outboard motors and parts. 582,442, Nov. 17; Serial No. 630,906, published June 9, 1953. Class 23.

Paraphernalia: *See*—
Snelling, H. B. W.

Paris Medicine Company, The, Wilmington, Del., and St. Louis, Mo., to Grove Laboratories, Inc., St. Louis, Mo. Medicinal tablet. 306,324, renewed Sept. 12, 1953. O. G. Nov. 17. Class 18.

Parker, Mitchell, doing business under the fictitious name of Mitchell Parker Manufacturing Company, Sharpsburg, Pa. Imitation candles which burn by means of a hidden fuel supply. 582,383, Nov. 17; Serial No. 601,938, published July 14, 1953. Class 34.

Parker, Mitchell, Manufacturing Company: *See*—
Parker, Mitchell.

Patch, E. L., Company, The, Stoneham, Mass. Analgesic tablet. 582,529, Nov. 17; Serial No. 643,974, published Aug. 25, 1953. Class 18.

Patterson, Herman W., doing business as The Ti-Not Company, Overland Park, Kans. Rubber bands adapted for tying vegetables, plants, etc. 582,554, Nov. 17; Serial No. 607,091. Class 7.

Pearce, Walter B., doing business under the name and style of Walter B. Pearce Co., Ambler, Pa. Folding high chair. 582,385, Nov. 17; Serial No. 603,645, published Jan. 22, 1952. Class 32.

Pearce, Walter B., Co.: *See*—
Pearce, Walter B.

Pelron Corporation, Lyons, Ill. Cutting compounds, non-abrasive grinding compounds, and drawing compounds, quenching oils, etc. 582,468, Nov. 17; Serial No. 634,752, published July 28, 1953. Class 15.

Penick, S. B., & Company, New York, N. Y. Ryania powder. 582,531, Nov. 17; Serial No. 644,448, published Aug. 25, 1953. Class 6.

Pennsylvania Salt Manufacturing Company, The: *See*—
I. G. Farbenindustrie Aktiengesellschaft.

Personal Products Corporation, assignee: *See*—
Rodgers, Dorothy F.

Pfister & Vogel Tanning Co., Milwaukee, Wis. Shoe side upper leather. 582,434, Nov. 17; Serial No. 629,910, published Aug. 18, 1953. Class 1.

Pfizer, Chas., & Co., Inc.: *See*—
Strowd, Wallace H.

Phillips & Buttorff Manufacturing Company, Nashville, Tenn. Electric water heaters and electric space heaters. 520,793, Feb. 7, 1950. Amended. O. G. Nov. 17. Class 21.

Phillips & Buttorff Mfg. Co., Nashville, Tenn. Coal and wood stoves, etc. 123,270, Oct. 22, 1918. Amended. O. G. Nov. 17. Class 34.

Phillips & Buttorff Mfg. Co., Nashville, Tenn. Electric ranges. 328,172, Sept. 17, 1935. Amended. O. G. Nov. 17. Class 21.

Phil-Maid, Inc., Chicago, Ill. Ladies' half slips, panties, pajamas, etc. 582,557, Nov. 17; Serial No. 615,187. Class 39.

Piru Citrus Association, Piru, Calif. Fresh citrus fruits. 582,544, Nov. 17; Serial No. 645,762, published Aug. 4, 1953. Class 46.

Pitney-Bowes, Inc.: *See*—
Mailometer Company.

Pittsburgh Brewing Company, Pittsburgh, Pa. Beer. 582,494, Nov. 17. Serial No. 640,526, published Aug. 4, 1953. Class 48.

Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Insecticides, fungicides, germicides, etc. 582,537, Nov. 17. Serial No. 645,336, published Aug. 25, 1953. Class 6.

Plicose Manufacturing Corporation: *See*—
Harte, Ralph S.

Plymouth Cordage Company, Plymouth, Mass. Fibrous and textile rope and twine. 95,144, re-renewed Feb. 3, 1954. O. G. Nov. 17. Class 7.

Popper Watch Co. Inc., New York, N. Y. Watches. 582,499, Nov. 17; Serial No. 641,085, published June 23, 1953. Class 27.

Posner, Abraham, to Dr. A. Posner Shoes, Inc., New York, N. Y. Leather and canvas shoes. 92,465, re-renewed July 8, 1953. O. G. Nov. 17. Class 39.

Posner, Dr. A., Shoes, Inc.: *See*—
Posner, Abraham.

Prairie Farmer Publishing Company, The, Chicago, Ill. Department or section of a periodical publication. 582,460, Nov. 17; Serial No. 633,376, published Aug. 18, 1953. Class 38.

Press Union Publishing Company, Atlantic City, N. J. Title of its publication. 167,593, May 1, 1923. Republished Nov. 17. Class 38.

Procter & Gamble Company, The, Cincinnati, Ohio. Sulfo derivative of higher fatty alcohol having cleansing and detergent properties. 304,885, renewed July 18, 1953. O. G. Nov. 17. Class 52.

Procter & Gamble Company, The, Cincinnati, Ohio. Shortening. 582,474, Nov. 17; Serial No. 636,956, published July 28, 1953. Class 46.

Progressive Products Company, Hollywood, Calif. Game. 582,547, Nov. 17; Serial No. 647,720, published Aug. 18, 1953. Class 22.

Protective Treatments, Inc., Dayton, Ohio. Liquid plastic bandage. 582,513, Nov. 17; Serial No. 642,162, published July 28, 1953. Class 18.

Protective Treatments, Inc., Dayton, Ohio. Liquid surgical dressing. 582,514, Nov. 17; Serial No. 642,163, published July 28, 1953. Class 18.

Purity Products Company, Mayville, Wis. Milk solids concentrate. 582,471, Nov. 17; Serial No. 636,653, published Aug. 11, 1953. Class 46.

Quincy Stove Manufacturing Company, The, Quincy, Ill. Portable ranges, circulator space heaters, and furnaces. 582,506, Nov. 17; Serial No. 641,573, published July 14, 1953. Class 34.

Radio Corporation of America, New York, N. Y. Air conditioners, their component and replacement parts, etc. 582,443, Nov. 17; Serial No. 631,220, published July 21, 1953. Class 34.

Ralston Purina Company, St. Louis, Mo. Breakfast cereal foods; Scandinavian style bread, animal feeds, etc. 582,371, Nov. 17; Serial No. 552,702, published Aug. 4, 1953. Class 46.

Raschig, Ralph A., Brookfield, Wis. Pyrophoric material. 582,481, Nov. 17; Serial No. 638,269, published Aug. 4, 1953. Class 1.

Red Devil Tools, Irvington, N. J. Putty chisels, wall paper trimmers, paper hangers' straight edges, etc. 582,372, Nov. 17; Serial No. 568,400, published June 16, 1953. Class 23.

Remer, R. F.: *See*—
Honey Packers, Inc.

Remington Rand Inc., Buffalo, to Remington Rand Inc., New York, N. Y. Photographic chemicals, photo developing and fixing compositions. 306,704, renewed Sept. 26, 1953. O. G. Nov. 17. Class 6.

Remington Rand Inc., Buffalo, to Remington Rand Inc., New York, N. Y. Photographing cameras; developing, fixing, and washing cabinets, trays, etc. 307,123, renewed Oct. 17, 1953. O. G. Nov. 17. Class 26.

Republic Rubber Company, The, to Lee Rubber and Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio. Power transmission belts. 309,775, renewed Jan. 30, 1954. O. G. Nov. 17. Class 35.

Republic Rubber Division: *See*—
Republic Rubber Company, The.

Rex Products & Mfg. Company, by Detrex Corporation, Detroit, Mich. Water-softening powders. 220,486, Nov. 9, 1926. Republished Nov. 17. Class 6.

Rider, John F., Publisher, Inc., New York, N. Y. Technical manuals and replacement and insert parts therefor. 582,420, Nov. 17; Serial No. 627,900, published Aug. 18, 1953. Class 38.

Ritzenthaler, John, New York, N. Y. Dish, floor, dust, and polishing cloths. 309,868, renewed Feb. 6, 1954. O. G. Nov. 17. Class 29.

Robbins & Myers, Inc., Springfield, Ohio. Industrial ventilating fans. 582,424, Nov. 17; Serial No. 628,877, published July 14, 1953. Class 34.

Robin Hood Mills, Limited, Calgary, Alberta, and Moose Jaw, Saskatchewan, Canada, by International Milling Company, Minneapolis, Minn. Farina, rolled oats, and oatmeal. 108,370, Feb. 1, 1916. Republished Nov. 17. Class 46.

Rodgers, Dorothy F., New York, N. Y., assignor, by mesne asignments, to Personal Products Corporation, North Brunswick Township, N. J. Disposable cleaning swab and handles and holders therefor. 547,880, Sept. 11, 1951. Amended. O. G. Nov. 17. Class 29.

Rogers Automotive Supply Co.: *See*—
Schmitz, Roger T.

Rolling Hills Orchards, Inc., Los Angeles, Calif., and Emmett, Idaho. Fresh deciduous fruits. 582,542, Nov. 17; Serial No. 645,433, published Aug. 4, 1953. Class 46.

Saegertown Ginger Ale Co., Saegertown, Pa. Nonalcoholic maltless soft drinks. 582,425, Nov. 17; Serial No. 628,960, published July 14, 1953. Class 45.

Sandoz Chemical Works, Inc., New York, N. Y. Chemical compounds. 309,541, renewed Jan. 16, 1954. O. G. Nov. 17. Class 6.

Satinwax Products Distributors: *See*—
Economics Laboratory, Inc.

Schlage Lock Company, San Francisco, Calif. Boring jigs, boring bits, metal templates, etc. 582,492, Nov. 17; Serial No. 640,413, published July 7, 1953. Class 23.

Schmitz, Roger T., doing business under the firm name of Rogers Automotive Supply Co., Pasadena, Calif. Oil and oil filter condition sight indicators. 582,586, Nov. 17; Serial No. 640,583. Class 26.

Scholastic Corporation, New York, N. Y. Weekly scholastic periodical. 582,500, Nov. 17; Serial No. 641,093, published Aug. 18, 1953. Class 38.

Schreiber Mills, Inc., St. Joseph, Mo. Feed. 582,452, Nov. 17; Serial No. 632,330, published Feb. 10, 1953. Class 46.

Schwartz, Morris, & Sons, Inc., New York, N. Y. Woven textile fabrics. 582,391, Nov. 17; Serial No. 613,426, published Aug. 18, 1953. Class 42.

Scientific Oil Compounding Company, Inc., Chicago, Ill. Fungicidal material. 582,534, Nov. 17; Serial No. 645,193, published Aug. 25, 1953. Class 6.

Scoffee, Inc., Hewlett, N. Y. Carbonated coffee flavored maltless soft drinks and coffee flavored extract. 582,396, Nov. 17; Serial No. 616,646, published July 21, 1953. Class 45.

Scott, O. M., & Sons Company, Marysville, Ohio. Field, garden, lawn, and grass seeds. 582,507, Nov. 17; Serial No. 641,577, published Aug. 18, 1953. Class 1.

Scott, O. M., & Sons Company, Marysville, Ohio. Field, garden, lawn, and grass seeds. 582,509, Nov. 17; Serial No. 641,805, published Aug. 18, 1953. Class 1.

Seiler, Karl, & Sons, Inc.: *See*—
Vogt, F. G., & Sons, Incorporated.

Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. 582,463–4, Nov. 17; Serial Nos. 633,634–5, published Aug. 18, 1953. Class 32.

Sewing Machine Finger Protector Co., The, Leominster, Mass. Needle guards. 308,901, renewed Dec. 26, 1953. O. G. Nov. 17. Class 23.

Shedd-Brown Mfg. Co., Minneapolis, Minn. Memorandum calendars. 308,384, renewed Dec. 5, 1953. O. G. Nov. 17. Class 37.

Sheller Manufacturing Corporation, Chicago, Ill. Friction tape. 582,466, Nov. 17; Serial No. 634,122, published Aug. 18, 1953. Class 5.

Shelton, Rubye B., doing business under the name of Allito Mfg. Co., Houston, Tex. Coconut oil detergent shampoo. 582,422, Nov. 17; Serial No. 628,130, published Aug. 18, 1953. Class 52.

Sherman Products, Inc., Royal Oak, Mich. Change speed transmissions, power operated diggers. 582,459, Nov. 17; Serial No. 633,336, published July 7, 1953. Class 23.

Shofner, Eugene F., doing business as Mentoll Co., Fayetteville, Tenn. Remedy for head colds and minor skin affections. 582,532, Nov. 17; Serial No. 644,875, published Aug. 25, 1953. Class 18.

Simmons Company, New York, N. Y. Bedsteads, couches, cots, cribs, etc. 305,475, renewed Aug. 15, 1953. O. G. Nov. 17. Class 32.

Sinagnan, Frances, et Cie, Inc., New York, N. Y. Chocolate candies. 306,456, renewed Sept. 19, 1953. O. G. Nov. 17. Class 46.

Smokemasters, Inc., New York, N. Y. Meat products. 582,488, Nov. 17; Serial No. 639,786, published Aug. 11, 1953. Class 46.

Smyth, H. M., and Company Limited, Belfast, Northern Ireland. Textile piece goods. 582,527, Nov. 17; Serial No. 643,618, published Aug. 18, 1953. Class 42.

Snelling, H. B. W., doing business as Paraphernalia, Provincetown, Mass. Men's, women's, and children's wearing apparel. 582,559, Nov. 17; Serial No. 619,937. Class 39.

Societe d'Etudes, de Recherches, de Representation et d'Exploitation (S. E. R. R. E.) Societe a Responsabilite Limitee, Paris, France, to Bourjois, Inc., New York, N. Y. Lipstick, mascara, etc. 443,297, Aug. 23, 1949. New certificate. O. G. Nov. 17. Class 51. (Formerly Class 6.)

Société Mulban S. A. R. L., Paris, France. Nasal inhaling apparatus. 582,381, Nov. 17; Serial No. 593,247, published Aug. 25, 1953. Class 44.

Softskin Toys, Inc., New York, N. Y. Stuffed toys and stuffed dolls. 582,585, Nov. 17; Serial No. 639,904. Class 22.

Spencer Shoe Corporation: *See*—
Tri-plex Shoe Company.

Stackpole, Milton E., doing business as Gift Horse Creations, San Mateo, Calif. Ceramic tableware. 582,428, Nov. 17; Serial No. 629,631, published June 23, 1953. Class 30.

Standard Register Company, The, Dayton, Ohio. Partially blank business forms. 582,555, Nov. 17; Serial No. 608,961. Class 37.

Starline Inc., Harvard, Ill. Barn roof ventilators, ventilating fans, etc. 582,479, Nov. 17; Serial No. 638,030, published July 21, 1953. Class 34.

Staunt, Martin, doing business as Midwest Dental Manufacturing Co., Chicago, Ill. Dental handpieces. 582,399, Nov. 17; Serial No. 620,175, published Aug. 4, 1953. Class 44.

Stelzer, Otto E., German Township, St. Joseph County, Ind. Bath enclosures in the nature of a kit. 582,426, Nov. 17; Serial No. 628,969, published Aug. 4, 1953. Class 12.

Stern Brothers, New York, N. Y. Bath towels, bath mats, dish towels, etc. 582,485, Nov. 17; Serial No. 639,506, published Aug. 18, 1953. Class 42.

Stetson Press, The, Boston, to B. J. Lewis, Brookline, Mass. Printing inks. 303,567, renewed May 30, 1953. O. G. Nov. 17. Class 11.

Stienen, Ernest A., New York, N. Y. Dyeing machinery, drying machinery, and machines for extracting fluid from textiles. 582,389, Nov. 17; Serial No. 611,047, published June 16, 1953. Class 23.

Strowd, Wallace H., Nashville, Tenn., to Chas. Pfizer & Co., Inc., New York, N. Y. Product composed of wheat germ and other ingredients, etc. 379,735, July 23, 1940. O. G. Nov. 17. Class 46.

Stuyvesant Cigar Company Incorporated, New York, N. Y. Tobacco mixture. 306,062, renewed Sept. 5, 1953. O. G. Nov. 17. Class 17.

Süddeutsche Zellwolle A. G., Kelheim-Ost, Germany. Rayon staple fiber. 582,405, Nov. 17; Serial No. 621,733, published Aug. 4, 1953. Class 1.

Suffolk Farms Packing Co., Revere and Chelsea, Mass. Fresh fruits, fresh vegetables, and seasonings. 582,411, Nov. 17; Serial No. 623,692, published May 19, 1953. Class 46.

Sunbeam Corporation, Chicago, Ill. Animal grooming machines. 582,382, Nov. 17; Serial No. 595,688, published June 9, 1953. Class 23.

Teitelbaum, Albert, Beverly Hills, Calif. Mink fur pelts. 582,377, Nov. 17; Serial No. 585,961, published Sept. 16, 1952. Class 1.

Temp Resisto Corporation, New York, N. Y. Insulating textile fabric. 582,444, Nov. 17; Serial No. 631,227, published Aug. 18, 1953. Class 42.

Textile Fiber Corporation, St. Louis, Mo. Shredded textile fibers. 582,461, Nov. 17; Serial No. 633,561, published Aug. 11, 1953. Class 1.

Tierra Royal Potteries, Inc., Kansas City, Mo. Glazed pottery planters and vases. 582,462, Nov. 17; Serial No. 633,595, published June 23, 1953. Class 30.

Ti-Not Company, The: *See*—
Patterson, Herman W.

Transograph, Incorporated, Minneapolis, Minn. Jaw recorder and duplicator. 582,436, Nov. 17; Serial No. 630,241, published Aug. 18, 1953. Class 44.

Travenol Laboratories, Inc., Morton Grove, Ill. Containers for containment and dispensation of parenteral fluids, and tubes equipped with needles and needle adapters, etc. 582,455, Nov. 17; Serial No. 632,637, published Aug. 18, 1953. Class 44.

Tri-plex Shoe Company, Philadelphia, Pa., to Spencer Shoe Corporation, Boston, Mass. Boots and shoes. 157,225, July 25, 1922. New certificate. O. G. Nov. 17. Class 39.

Tyler-Gregg Poultry and Egg Company, Inc., Tyler, Tex. Fresh dressed and frozen frying, roasting and broiling poultry. 582,437, Nov. 17; Serial No. 630,243, published Aug. 11, 1953. Class 46.

Ukiah Fruit Growers, Inc., Ukiah, Calif. Fresh deciduous fruits. 352,487, Nov. 30, 1937. Republished Nov. 17. Class 46.

Ulmer, Charles, Inc., City Island, N. Y. Sails. 582,562, Nov. 17; Serial No. 622,567. Class 19.

United Collieries, Inc., assignor to United Collieries, Incorporated, Cincinnati, Ohio. Coal. 582,409, Nov. 17; Serial No. 623,263, published July 28, 1953. Class 1.

United Collieries, Incorporated, assignee: *See*—
United Collieries, Inc.

United Distillers Limited, Vancouver, British Columbia, Canada, to Continental Distilling Corporation, Philadelphia, Pa. Whisky and gin. 305,577, renewed Aug. 22, 1953. O. G. Nov. 17. Class 49.

United States Gypsum Company, Chicago, Ill. Basement sash, metal arches, steel roof deck, etc. 582,403, Nov. 17; Serial No. 621,040, published July 28, 1953. Class 12.

U. S. Handbag Corporation, New York, N. Y. Ladies' handbags and travelling cases. 582,589, Nov. 17; Serial No. 645,353. Class 3.

U. S. Manufacturing Corporation, Decatur, Ill. Electric corn poppers. 582,558, Nov. 17; Serial No. 616,928. Class 21.

United States Movidyn Corporation, The, Chicago, Ill. Activated colloidal silver compound. 582,535, Nov. 17; Serial No. 645,272, published Aug. 25, 1953. Class 6.

United States Tobacco Company, Flemington, N. J., and New York, N. Y. Chewing tobacco. 582,370, Nov. 17; Serial No. 550,879, published Aug. 11, 1953. Class 17.

Valley Paper Company: *See*—
Carew Manufacturing Company.

Van Camp Sea Food Company, Inc., Terminal Island, Calif. Canned tuna fish. 582,502–3, Nov. 17; Serial Nos. 641,355–6, published Aug. 11, 1953. Class 46.

Van Mour, Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets, and skirts. 582,584, Nov. 17; Serial No. 638,674. Class 39.

Victrylite Candle Company, Oshkosh, Wis. Holders of a plurality of candles. 582,423, Nov. 17; Serial No. 628,590, published July 7, 1953. Class 34.

Vogt, F. G., & Sons, Incorporated, to Karl Seiler & Sons, Inc., Philadelphia, Pa. Boiled ham. 306,277, renewed Sept. 12, 1953. O. G. Nov. 17. Class 46.

Wall, Courtney C., Ozark Beach, Mo. Bookkeeping and accounting forms and loose leaf binders. 582,556, Nov. 17; Serial No. 610,529. Class 37.

Wallace & Tiernan Company, Inc.: *See*—
Wallace & Tiernan Products, Inc.

Wallace & Tiernan Products, Inc., Belleville, N. J., now by merger and change of name Wallace & Tiernan Company, Inc. Anesthetic. 582,508, Nov. 17; Serial No. 641,753, published July 28, 1953. Class 18.

Walters & Co., London, England, to Fabrica de Tabacos J. F. Rocha, S. A., Havana, Cuba. Cigars. 93,313, re-renewed Sept. 2, 1953. O. G. Nov. 17. Class 17.

Watson Watch Corporation, New York, N. Y. Watches, clocks, and parts thereof, etc. 582,572, Nov. 17; Serial No. 632,496. Class 27.

Wayne Metal Moulding Co., Inc., East Detroit, Mich. Metal mouldings. 582,388, Nov. 17; Serial No. 608,843, published Aug. 4, 1953. Class 12.

Weld, Maria F., doing business as The Creative Workshop, Watertown, assignor to H. Berkowitz, Brookline, Mass. Miniature gardens, miniature landscapes, and miniature scenes, containing real plant life. 582,407, Nov. 17; Serial No. 622,682, published Aug. 18, 1953. Class 1.

Whittall, M. J., Associates, Inc: *See*—
Whittall, Matthew J.

Whittall, Matthew J., to M. J. Whittall Associates, Inc., Worcester, Mass. Carpets and rugs. 95,027, re-renewed Jan. 24, 1954. O. G. Nov. 17. Class 42.

Wick, Philip, Company, Inc., New York, N. Y. Acetate, rayon, nylon, cotton, and elastic nettings. 582,448–9, Nov. 17; Serial Nos. 631,907–8, published Aug. 18, 1953. Class 42.

Williams, Joseph, Limited, London, England. Type of violin for use of children learning to play the violin. 582,465, Nov. 17; Serial No. 634,012, published Aug. 18, 1953. Class 36.

Williams, L. G.: *See*—
Economics Laboratory, Inc.

Willisher, George, Dundee, Angus, Scotland. Whisky. 307,414, renewed Oct. 24, 1953. O. G. Nov. 17. Class 49.

Wolfenden, J. W., Corporation, Attleboro, Mass. Sterling silver flatware and hollow ware. 582,473, Nov. 17; Serial No. 636,908, published June 23, 1953. Class 28.

Wolfenden, J. W., Corporation, Attleboro, Mass. Sterling silver flatware and hollow ware. 582,476, Nov. 17; Serial No. 637,160, published June 23, 1953. Class 28.

Yankee Network Inc., The, Boston, Mass. Radio program broadcasting services. 582,549, Nov. 17; Serial No. 536,331, published Apr. 17, 1951. Class 104.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Artificial staple fibres. Courtaulds Limited. 582,480, Nov. 17; Serial No. 638,068, published Aug. 18, 1953.

Barytes. National Pigments & Chemical Company. 307,568, renewed Oct. 31, 1953. O. G. Nov. 17.

Bentonite, blanc rouge, china clay, etc. Innis, Speiden & Co., Inc. 582,401–2, Nov. 17; Serial Nos. 621,014–15, published Aug. 4, 1953.

Coal. Carter Coal Company. 309,148, renewed Jan. 2, 1954. O. G. Nov. 17.

Coal. United Collieries, Inc. 582,409, Nov. 17; Serial No. 623,263, published July 28, 1953.

Flexible polymeric material. The General Tire & Rubber Company. 582,430, Nov. 17; Serial No. 629,662, published Aug. 4, 1953.

Fur pelts, Mink. A. Teitelbaum. 582,377, Nov. 17; Serial No. 585,961, published Sept. 16, 1952.

Leather. John R. Evans & Company. 582,447, Nov. 17; Serial No. 631,657, published Aug. 18, 1953.

Leather, Calf. American Hide and Leather Company. 582,504, Nov. 17; Serial No. 641,485, published Aug. 18, 1953.

Leather, Shoe side upper. Pfister & Vogel Tanning Co. 582,434, Nov. 17; Serial No. 629,910, published Aug. 18 1953.

Mats, bats, and sheets of fibrous glass. Libbey-Owens-Ford Glass Company. 582,519, Nov. 17; Serial No. 643,039, published Aug. 25, 1953.

Miniature gardens, miniature landscapes, and miniature scenes, containing real plant life. M. F. Weld. 582,407, Nov. 17; Serial No. 622,682, published Aug. 18, 1953.

Pyrophoric material. R. A. Raschig. 582,481, Nov. 17; Serial No. 638,269, published Aug. 4, 1953.

Rayon staple fiber. Süddeutsche Zellwolle A. G. 582,405, Nov. 17; Serial No. 621,733, published Aug. 4, 1953.

Resinous plastic material. The Kono Manufacturing Company. 582,483, Nov. 17; Serial No. 638,654, published Aug. 4, 1953.

Seed corn and cotton seed. The Logan Seed Company, Inc. 582,433, Nov. 17; Serial No. 629,804, published Aug. 18, 1953.

Seed, Lawn and field. Barzen Company. 582,469, Nov. 17; Serial No. 636,056, published Aug. 18, 1953.

Seeds, Field, garden, lawn and grass. O. M. Scott & Sons Company. 582,507, Nov. 17; Serial No. 641,577, published Aug. 18, 1953.

Seeds, Field, garden, lawn, and grass. O. M. Scott & Sons Company. 582,509, Nov. 17; Serial No. 641,805, published Aug. 18, 1953.

Textile fibers, Shredded. Textile Fiber Corporation. 582,461, Nov. 17; Serial No. 633,561, published Aug. 11, 1953.

CLASS 2

Cans, Friction-top, coffee-cans, spice-cans, etc. American Can Company. 92,935, re-renewed Aug. 12, 1953. O. G. Nov. 17.

CLASS 3

Handbags and travelling cases, Ladies'. U. S. Handbag Corporation. 582,589, Nov. 17; Serial No. 645,353.

CLASS 4

Abrasive particles, Metallic. American Wheelabrator & Equipment Corporation. 582,435, Nov. 17; Serial No 629,927, published Aug. 25, 1953.

Polish, Liquid metal. The North American Polish Company. 306,780, renewed Sept. 26, 1953. O. G. Nov. 17.

Polish, Metal. The North American Polish Company. 306,781, renewed Sept. 26, 1953. O. G. Nov. 17.

Wax, Liquid polishing. Economics Laboratory, Inc. 305,783, renewed Aug. 22, 1953. O. G. Nov. 17.

CLASS 5

Adhesives, etc. Minnesota Mining & Manufacturing Company. 351,358, Oct. 26, 1937. Amended. O. G. Nov. 17.

Chemical preparation having adhesive properties. Milligan Bros. System. 582,501, Nov. 17; Serial No. 641,147, published Aug. 25, 1953.

Solvent type cement. Midcontinent Adhesive Company. 582,413, Nov. 17; Serial No. 624,098, published Aug. 25, 1953.

Tape, Friction. Sheller Manufacturing Corporation. 582,466, Nov. 17; Serial No. 634,122, published Aug. 18, 1953.

CLASS 6

Acetyl peroxide, ammonium persulfate, barium nitrate, etc. Food Machinery and Chemical Corporation. 582,536, Nov. 17; Serial No. 645,298, published Aug. 25, 1953.

Activated colloidal silver compound. The United States Movidyn Corporation. 582,535, Nov. 17; Serial No. 645,272, published Aug. 25, 1953.

Agglomerates of solid aldehyde, solid methyl alcohol, etc. Lonza Elektrizitatswerke und Chemische Fabriken Aktiengesellschaft. 306,296, renewed Sept. 12, 1953. O. G. Nov. 17.

Chemical compounds. Sandoz Chemical Works, Inc. 309,541, renewed Jan. 16, 1954. O. G. Nov. 17.

Chemicals, Photographic, photo developing and fixing compositions. Remington Rand Inc. 306,704, renewed Sept. 26, 1953. O. G. Nov. 17.

Cyanid salts. E. I. du Pont de Nemours and Company. 307,873, renewed Nov. 7, 1953. O. G. Nov. 17.

Disinfectant. The Gerson-Stewart Corporation Company. 582,467, Nov. 17; Serial No. 634,251, published Aug. 25, 1953.

Disinfectant, General horticultural. Bayer Semesan Company, Inc. 305,724, renewed Aug. 22, 1953. O. G. Nov. 17.

Dyes and chemicals. Geigy Company, Inc. 304,961, July 25, 1933. Republished Nov. 17.

Fungicidal material. Scientific Oil Compounding Company, Inc. 582,534, Nov. 17; Serial No. 645,193, published Aug. 25, 1953.

Insecticides, fungicides, germicides, etc. Pittsburgh Coke & Chemical Company. 582,537, Nov. 17; Serial No. 645,336, published Aug. 25, 1953.

Ryania powder. S. B. Penick & Company. 582,531, Nov. 17; Serial No. 644,448, published Aug. 25, 1953.

Water-softening powders. Rex Products & Mfg. Company. 220,486, Nov. 9, 1926. Republished Nov. 17.

Water soluble compound for use as a coolant. American Chain & Cable Company, Inc. 582,427, Nov. 17; Serial No. 628,988, published July 28, 1953.

CLASS 7

Rope and twine, Fibrous and textile. Plymouth Cordage Company. 95,144, re-renewed Feb. 3, 1954. O. G. Nov. 17.

Rubber bands, adapted for tying vegetables, plants, etc. H. W. Patterson. 582,554, Nov. 17; Serial No. 607,091.

CLASS 8

Lighter fuel filler, Cigarette. Gey Products Corporation. 582,510, Nov. 17; Serial No. 641,834, published Aug. 4, 1953.

CLASS 11

Inks, Printing. The Stetson Press. 303,567, renewed May 30, 1953. O. G. Nov. 17.

CLASS 12

Basement sash, metal arches, steel roof deck, etc. United States Gypsum Company. 582,403, Nov. 17; Serial No. 621,040, published July 28, 1953.

Bath enclosures in the nature of a kit. O. E. Stelzer. 582,426, Nov. 17; Serial No. 628,969, published Aug. 4, 1953.

Caulking and filling compounds, metal shapes and caps for masonry joints, etc. Minwax Company, Inc. 582,439, Nov. 17; Serial No. 630,543, published Aug. 4, 1953.

Cements, Self-hardening, acid- and water-proof construction. I. G. Farbenindustrie Aktiengesellschaft. 305,707, renewed Aug. 22, 1953. O. G. Nov. 17.

Metal mouldings. Wayne Metal Moulding Co., Inc. 582,388, Nov. 17; Serial No. 608,843, published Aug. 4, 1953.

Prefabricated greenhouses. Aluminum Greenhouses, Inc. 582,580, Nov. 17; Serial No. 636,579.

Solids of waste sulfite liquor, for use as a road binder. Crown Zellerbach Corporation. 582,489, Nov. 17; Serial No. 639,811, published June 23, 1953.

Tile, Plastic. Aztec Corporation. 582,495, Nov. 17; Serial No. 640,543, published June 23, 1953.

CLASS 13

Bath-tubs, lavatories, sinks, water-closets, etc. Kohler Co. 94,999, re-renewed Jan. 20, 1954. O. G. Nov. 17.

Nails. The Independent Nail & Packing Company, Inc. 367,448, May 16, 1939. Republished Nov. 17.

Sinks, lavatories, and bathtubs. Briggs Manufacturing Co. 307,023, renewed Oct. 10, 1953. O. G. Nov. 17.

CLASS 14

Alloy. S. Frankel. 305,938, renewed Aug. 29, 1953. O. G. Nov. 17.

Nickel alloys and alloys of nickel, chromium, and iron. The International Nickel Company, Inc. 308,200, renewed Nov. 21, 1953. O. G. Nov. 17.

CLASS 15

Cutting compounds, non-abrasive grinding compounds and drawing compounds, quenching oils, etc. Petron Corporation. 582,468, Nov. 17; Serial No. 634,752, published July 28, 1953.

Gasoline. Dixie Distributors Incorporated. 306,958, renewed Oct. 10, 1953. O. G. Nov. 17.

Oils and greases, Lubricating. Famous Sales Company. 320,548, Jan. 1, 1935. Amended. O. G. Nov. 17.

CLASS 17

Cigarettes. Liggett & Myers Tobacco Company. 582,520, Nov. 17; Serial No. 643,169, published Aug. 4, 1953.

Cigars. Walters & Co. 93,313, re-renewed Sept. 2, 1953. O. G. Nov. 17.

Tobacco, Chewing. United States Tobacco Company. 582,370, Nov. 17; Serial No. 550,879, published Aug. 11, 1953.

Tobacco mixture. Stuyvesant Cigar Company Incorporated. 306,062, renewed Sept. 5, 1953. O. G. Nov. 17.

CLASS 18

Analgesic tablet. The E. L. Patch Company. 582,529, Nov. 17; Serial No. 643,974, published Aug. 25, 1953.

Anesthetic. Wallace & Tiernan Products, Inc. 582,508, Nov. 17; Serial No. 641,753, published July 28, 1953.

Antihistamine medicine. Allied Drugs, Inc. 582,421, Nov. 17; Serial No. 627,919, published July 28, 1953.

Aspirin tablets. F. L. Jungerich. 582,376, Nov. 17; Serial No. 584,496, published Aug. 4, 1953.

Astringent for sour stomach, heartburn, acid eructations, etc. Merrick Medicine Company. 582,482, Nov. 17; Serial No. 638,428, published July 28, 1953.

Feed supplement, Animal. J. Finkelstein. 582,528, Nov. 17; Serial No. 643,948, published Aug. 25, 1953.

Food supplement. The O. A. Cooper Company. 582,567, Nov. 17; Serial No. 625,971.

Hormone preparation. Ciba Limited. 582,457, Nov. 17; Serial No. 632,921, published Aug. 25, 1953.

Liquid plastic bandage. Protective Treatments, Inc. 582,513, Nov. 17; Serial No. 642,162, published July 28, 1953.

Liquid surgical dressing. Protective Treatments, Inc. 582,514, Nov. 17; Serial No. 642,163, published July 28, 1953.

Medical preparation. Drug Specialties, Inc. 582,516–17, Nov. 17; Serial Nos. 642,528 9, published July 28, 1953.

Medicament. T. C. Dilbeck. 582,518, Nov. 17; Serial No 642,953, published Aug. 18, 1953.

Medicament, Injectable. Metropolitan Laboratories, Inc. 582,395, Nov. 17; Serial No. 615,845, published July 28, 1953.

Medicinal tablet. The Paris Medicine Company. 306,324, renewed Sept. 12, 1953. O. G. Nov. 17.

Multivitamin drops, Aqueous. Dalin Pharmaceuticals, Inc. 582,533, Nov. 17; Serial No. 645,117, published Aug. 25, 1953.

Oxytocin preparation used as a veterinary medicine. Armour and Company. 582,505, Nov. 17; Serial No 641,537, published July 28, 1953.

Pharmaceutical product. Farmaceutici Italia S. A. 582,453, Nov. 17; Serial No. 632,361, published Aug. 18, 1953.

Remedy for head colds and minor skin affections. E. F. Shofner. 582,532, Nov. 17; Serial No. 644,875, published Aug. 25, 1953.

Veterinary preparation. Allied Laboratories, Inc. 582,451, Nov. 17; Serial No. 632,140, published Aug. 25, 1953.

CLASS 19

Automobile steering wheel covers. Automotive Accessories Mfg. Co. 582,552, Nov. 17; Serial No. 597 655.

Automotive vehicle chassis parts. The Cleveland Graphite Bronze Company. 582,563, Nov. 17; Serial No. 624 076

Boats, Row, and outboard motor boats. Elasti-Seal Marine Products, Inc. 582,380, Nov. 17; Serial No. 590,737, published Aug. 18, 1953.

Sails. Charles Ulmer, Inc. 582,562, Nov. 17; Serial No. 622,567.

CLASS 20

Fibrous material adapted for uses similar to that of oil-cloth. The Munising Paper Company. 444,050, June 27, 1950. Republished Nov. 17.

CLASS 21

Electric corn poppers. U. S. Manufacturing Corporation. 582,558, Nov. 17; Serial No. 616,928.

Electric water heaters and electric space heaters. Phillips & Buttorff Manufacturing Company. 520,793, Feb. 7, 1950. Amended. O. G. Nov. 17.

Electrical starting mechanism. Unitary automatic. Eclipse Machine Company. 304,786, renewed July 18, 1953. O. G. Nov. 17.

Electrical terminals and other electrical connectors. Aircraft-Marine Products Inc. 582,551, Nov. 17; Serial No. 593,766.

Electrically-heated chafing-dishes, etc. Landers, Frary & Clark. 306,151, Sept. 12, 1933. Amended. O. G. Nov. 17.

Non-corrosive, heat-resisting, fired material derived by combination of materials of mineralogic orgin, etc., for use as electric insulation. American Lava Corporation. 305,928, renewed Aug. 29, 1953. O. G. Nov. 17.

Ranges, Electric. Phillips & Buttorff Mfg. Co. 328,172, Sept. 17, 1935. Amended. O. G. Nov. 17.

Remote supervisory control equipment. The Hammarlund Manufacturing Company, Inc. 582,553, Nov. 17; Serial No. 602,450.

CLASS 22

Deck of cards, Special. H. C. Doran. 582,417, Nov. 17; Serial No. 626,785, published Aug. 18, 1953.

Footballs, basketballs, volley balls and striking bags. M. Denkert & Company. 582,566, Nov. 17; Serial No. 625,791.

Game. Progressive Products Company. 582,547, Nov. 17; Serial No. 647,720, published Aug. 18, 1953.

Game apparatus, Coin-controlled amusement. Electro-Snap Switch & Mfg. Co. 582,579, Nov. 17; Serial No. 635,297.

Game, Board. Milton Bradley Company. 582,546, Nov. 17; Serial No. 647,591, published Aug. 18, 1953.

Puzzle, Multiple deck, rolling ball. E. L. Boles. 582,548, Nov. 17; Serial No. 647,986, published Aug. 18, 1953.

Sport nets. E. C. Koch 582,583, Nov. 17; Serial No. 636,895.

Telescopes and binoculars in the nature of toys. A. F. Escudier 582,538–9, Nov. 17; Serial Nos. 645,400–1, published Aug. 18, 1953.

Toys, Stuffed, and stuffed dolls. Softskin Toys, Inc. 582,585, Nov. 17; Serial No. 639,904.

CLASS 23

Animal grooming machines. Sunbeam Corporation. 582,382, Nov. 17; Serial No. 595,688, published June 9, 1953.

Augers, Earth drilling. F. E. Henning. 582,450, Nov. 17; Serial No. 631,989, published July 7, 1953.

Boring jigs, boring bits, metal templates, etc. Schlage Lock Company. 582,492, Nov. 17; Serial No. 640,413, published July 7, 1953.

Bottle filling and capping machinery, Automatic and hand operated. Cherry-Burrell Corporation. 582,484, Nov. 17; Serial No. 638,938, published July 7, 1953.

Can openers, bottle openers, combined can opening and dispensing devices, etc. American Can Company. 307,989, renewed Nov. 14, 1953. O. G. Nov. 17.

Change speed transmissions, power operated diggers. Sherman Products, Inc. 582,459, Nov. 17; Serial No. 633,336, published July 7, 1953.

Chisels, Putty, wall paper trimmers, paper hangers' straight edges, etc. Red Devil Tools. 582,372, Nov. 17; Serial No. 568,400, published June 16, 1953.

Coil-flushing gun, Ansul Chemical Company. 582,486, Nov. 17; Serial No. 639,606, published July 7, 1953.

Combination ice pick, bottle opener, seal breaker, etc. Modern Sales Company. 582,498, Nov. 17; Serial No. 640,950, published July 7, 1953.

Dispensing apparatus, Portable lubricant. Lincoln Engineering Company. 305,343, renewed Aug. 15, 1953. O. G. Nov. 17.

Dyeing machinery, drying machinery, and machines for extracting fluid from textiles. E. A. Stienen. 582,389, Nov. 17; Serial No. 611,047, published June 16, 1953.

Needle guards. The Sewing Machine Finger Protector Co. 308,901, renewed Dec. 26, 1953. O. G. Nov. 17.

Outboard motors and parts, Outboard, Marine & Manufacturing Company. 582,442, Nov. 17; Serial No. 630,906, published June 9, 1953.

Planes, braces, auger handles, etc. Millers Falls Company. 582,375, Nov. 17; Serial No. 582,179, published June 23, 1953.

Pulp mill equipment, sawmill equipment, etc. Electric Steel Foundry. 582,374, Nov. 17; Serial No. 579,867, published June 23, 1953.

Pumps, Centrifugal. Lawrence Machine and Pump Corporation. 582,458, Nov. 17; Serial No. 633,111, published July 21, 1953.

Sealing and stamping machines, Combined, and sealing-machines. Mailometer Company. 93,103, re-renewed Aug. 19, 1953. O. G. Nov. 17.

Tank cleaning machines. Butterworth System, Incorporated. 582,378, Nov. 17; Serial No. 589,422 published July 7, 1953.

Textile mill leathers, namely leather check straps. E. F. Houghton & Co. 582,386, Nov. 17; Serial No. 603,872, published June 23, 1953.

Tools, Metal cutting generally boring tools and block-type cutters; etc. Giddings & Lewis Machine Tool Company. 582,397, Nov. 17; Serial No. 618,740, published July 7, 1953.

Transmissions in power excavators. Bucyrus-Erie Company. 582,445, Nov. 17; Serial No. 631,461, published June 23, 1953.

CLASS 25

Locks and latches. P. & F. Corbin. 41,961, re-renewed Jan. 26, 1954. O. G. Nov. 17.

CLASS 26

Cameras, Photographing; developing, fixing, and washing cabinets, trays, etc. Remington Rand Inc. 307,123, renewed Oct. 17, 1953. O. G. Nov. 17.

Oil and oil filter condition sight indicators. R. T. Schmitz. 582,586, Nov. 17; Serial No. 640,583.

CLASS 27

Watch-movements. Elgin National Watch Company. 93,432, re-renewed Sept. 16, 1953. O. G. Nov. 17.

Watches. Annie Oakley Enterprises. 582,404, Nov. 17; Serial No. 621,097, published June 23, 1953.

Watches. Popper Watch Co. Inc. 582,499, Nov. 17; Serial No. 641,085, published June 23, 1953.

Watches, clocks, and parts thereof, etc. Watson Watch Corporation. 582,572, Nov. 17; Serial No. 632,496.

CLASS 28

Gems, Unset synthetic, and synthetic gems set in jewelry mountings. Kenya Gem Corporation. 582,410, Nov. 17; Serial No. 623,309, published June 23, 1953.

Sterling silver flatware and hollow ware. J. W. Wolfenden Corporation. 582,473, Nov. 17; Serial No. 636,908, published June 23, 1953.

Sterling silver flatware and hollow ware. J. W. Wolfenden Corporation. 582,476, Nov. 17; Serial No. 637,160, published June 23, 1953.

CLASS 29

Cleaning swab and handles and holders therefor, Disposable. D. F. Rodgers. 547,880, Sept. 11, 1951. Amended. O. G. Nov. 17.

Dish, floor, dust, and polishing cloths. J. Ritzenthaler. 309,868, renewed Feb. 6, 1954. O. G. Nov. 17.

CLASS 30

Ceramic tableware. M. E. Stackpole. 582,428, Nov. 17; Serial No. 629,631, published June 23, 1953.

Earthenware, Kiln-fired glazed. The Loma Manufacturing Company. 582,416, Nov. 17; Serial No. 626,465, published June 23, 1953.

Pottery planters and vases, Glazed. Tierra Royal Potteries, Inc. 582,462, Nov. 17; Serial No. 633,595, published June 23, 1953.

CLASS 32

Bedsteads, couches, cots, cribs, etc. Simmons Company. 305,475, renewed Aug. 15, 1953. O. G. Nov. 17.

Chair, Folding high. W. B. Pearce. 582,385, Nov. 17; Serial No. 603,645, published Jan. 22, 1952.

Furniture, Dining room, and bedroom furniture. Morganton Furniture Company. 582,446, Nov. 17; Serial No. 631,627, published Aug. 18, 1953.

Mattresses. Serta Associates, Inc. 582,463–4, Nov. 17; Serial Nos. 633,634–5, published Aug. 18, 1953.

Storage lockers; parts of and accessories for storage lockers, etc. Lyon Metal Products, Incorporated. 582,373, Nov. 17; Serial No. 570,974, published Aug. 18, 1953.

CLASS 34

Air conditioners, their component and replacement parts, etc. Radio Corporation of America. 582,443, Nov. 17; Serial No. 631,220, published July 21, 1953.

Candles which burn by means of a hidden fuel supply, Imitation. M. Parker. 582,383, Nov. 17; Serial No. 601,938, published July 14, 1953.

Fans, Industrial ventilating. Robbins & Myers, Inc. 582,424, Nov. 17; Serial No. 628,877, published July 14, 1953.

Fireplace units, Outdoor. Hancock Iron Works. 582,493, Nov. 17; Serial No. 640,458, published July 14, 1953.

Furnaces, Heating, autoclaves. Jackson & Church Company. 582,406, Nov. 17; Serial No. 622,498, published July 7, 1953.

Heaters, Gas, oil, vapor burning water, and their structural parts. The Cleveland Heater Company. 582,418, Nov. 17; Serial No. 626,932, published July 28, 1953.

Holders of a plurality of candles. Victrylite Candle Company. 582,423, Nov. 17; Serial No. 628,590, published July 7, 1953.

Ranges, Portable, circulator space heaters, and furnaces. The Quincy Stove Manufacturing Company. 582,506, Nov. 17; Serial No. 641,573, published July 14, 1953.

Stoves, Coal and wood, etc. Phillips & Buttorff Mfg. Co. 123,270, Oct. 22, 1918. Amended. O. G. Nov. 17.

Stoves and space heaters, Gas, oil, and coal fired. G. J. Emrich. 582,511, Nov. 17; Serial No. 642,130, published July 28, 1953.

Ventilators, Barn roof, ventilating fans, etc. Starline Inc. 582,479, Nov. 17; Serial No. 638,030, published July 31, 1953.

CLASS 35

Transmission belts, Power. The Republic Rubber Company. 309,775, renewed Jan. 30, 1954. O. G. Nov. 17.

CLASS 36

Accordions, All types of. Giulietti Accordion Corporation. 582,415, Nov. 17; Serial No. 625,268, published Aug. 25, 1953.

Pianos. Estey Piano Corp. 582,419, Nov. 17; Serial No. 627,258, published Aug. 18, 1953.

Pitch pipes. Wm. Kratt Co. 582,496, Nov. 17; Serial No. 640,637, published Aug. 25, 1953.

Type of violin for use of children learning to play the violin. Joseph Williams Limited. 582,465, Nov. 17; Serial No. 634,012, published Aug. 18, 1953.

CLASS 37

Bookkeeping and accounting forms and loose leaf binders. C. C. Wall. 582,556, Nov. 17; Serial No. 610,529.

Calendars, Memorandum. Shedd-Brown Mfg. Co. 308,384, renewed Dec. 5, 1953. O. G. Nov. 17.

Paper, Bond. Carew Manufacturing Company. 215,037, July 6, 1926. Republished Nov. 17.

Paper, Wall. Isgo Wall Paper Corporation. 582,587, Nov. 17; Serial No. 642,356.

Partially blank business forms. The Standard Register Company. 582,555, Nov. 17; Serial No. 608,961.

CLASS 38

Books, Series of. Denni Hlasatel Printing & Publishing Co., Inc. 582,515, Nov. 17; Serial No. 642,203, published Aug. 18, 1953.

Department or section of a periodical publication. The Prairie Farmer Publishing Company. 582,460, Nov. 17; Serial No. 633,376, published Aug. 18, 1953.

Magazine. G. Baker. 582,438, Nov. 17; Serial No. 630,256, published Aug. 18, 1953.

Magazine section. Meredith Publishing Company. 582,491, Nov. 17; Serial No. 640,349, published Aug. 18, 1953.

Magazines, Comic. Magazine Publishers, Inc. 582,523, Nov. 17; Serial No. 643,496, published Aug. 11, 1953.

Manuals and replacement and insert parts therefor, Technical. John F. Rider Publisher, Inc. 582,420, Nov. 17; Serial No. 627,900, published Aug. 18, 1953.

Maps, Automobile road. B. P. Drake. 582,490, Nov. 17; Serial No. 639,875, published Aug. 18, 1953.

Newspaper column or columns. Fairchild Publications, Inc. 582,530, Nov. 17; Serial No. 644,106, published Aug. 18, 1953.

Periodical, Bi-monthly. American Institute of Electrical Engineers. 582,578, Nov. 17; Serial No. 634,962.

Periodical, Monthly. American Institute of Electrical Engineers. 582,575, Nov. 17; Serial No. 633,955.

Periodical, Weekly scholastic. Scholastic Corporation. 582,500, Nov. 17; Serial No. 641,093, published Aug. 18, 1953.

Periodicals. The Colony Broadcasting Corporation. 569,172, Jan. 13, 1953. New certificate. O. G. Nov. 17.

Publication. The Hydraulics Publishing Company. 582,564, Nov. 17; Serial No. 624,833.

Publication, Periodical. The Reuben H. Donnelley Corporation. 582,582, Nov. 17; Serial No. 636,780.

Publications, Monthly. Frozen Food Age Publishing Co., Inc. 582,440, Nov. 17; Serial No. 630,593, published Aug. 18, 1953.

Published musical compositions. Hill and Range Songs, Inc. 582,521, Nov. 17; Serial No. 643,229, published Aug. 18, 1953.

Title of its publication. Press Union Publishing Company. 167,593, May 1, 1923. Republished Nov. 17.

CLASS 39

Blouses, Ladies'. Blousemaker, Inc. 582,394, Nov. 17; Serial No. 615,304, published Apr. 7, 1953.

Boots and shoes. Tri-plex Shoe Company. 157,225, July 25, 1922. New certificate. O. G. Nov. 17.

Clothing, Men's. Joseph H. Cohen & Sons, Inc. 582,574, Nov. 17; Serial No. 632,827.

Coats, dresses, gowns, etc., Junior misses', misses', and Ladies'. Comptoir de l'Industrie Cotonniere Societe a Responsabilite Limitee. 582,398, Nov. 17; Serial No. 619,486, published July 21, 1953.

Coats, suits, jackets, and skirts, Ladies' and misses'. Van Mour, Inc. 582,584, Nov. 17; Serial No. 638,674.

Coats, suits, jackets, etc., Women's, misses', and juniors'. Leeds Ltd. Coats, Inc. 392,528, Dec. 30, 1941. Republished Nov. 17.

Coats, vests, trousers, etc., Men's. Hart Schaffner & Marx. 307,174, renewed Oct. 17, 1953. O. G. Nov. 17.

Cravats. Kantor Bros. Neckwear Co. 582,570, Nov. 17; Serial No. 627,191.

Garments. The Firestone Tire & Rubber Company. 305,593, renewed Aug. 22, 1953. O. G. Nov. 17.

Hosiery, Ladies'. Archer Mills, Inc. 582,581, Nov. 17; Serial No. 636,581.

Hosiery, Ladies'. Sidney J. Kreiss, Inc. 582,569, Nov. 17; Serial No. 626,889.

Panties, Children's. Mam'selle Lingerie, Inc. 582,565, Nov. 17; Serial No. 625,747.

Shoes. The Moran Shoe Company, Inc. 303,794, renewed June 6, 1953. O. G. Nov. 17.

Shoes. The Moran Shoe Company, Inc. 305,669, renewed Aug. 22, 1953. O. G. Nov. 17.

Shoes, Leather and canvas. A. Posner. 92,465, re-renewed July 8, 1953. O. G. Nov. 17.

Slips, panties, pajamas, etc., Ladies' half. Phil-Maid, Inc. 582,557, Nov. 17; Serial No. 615,187.

Suits and topcoats, Men's. Kurtzman Brothers. 582,571, Nov. 17; Serial No. 628,281.

Suits, coats, dresses, jackets, Women's. Gaynes, Incorporated. 582,573, Nov. 17; Serial No. 632,519.

Wearing apparel, Men's, women's and children's. H. B. W. Snelling. 582,559, Nov. 17; Serial No. 619,937.

CLASS 40

Knee patches. G. Dickstein. 582,561, Nov. 17; Serial No. 622,146.

CLASS 42

Carpet, Wool and wool and rayon twist velvet. De Witt Carpets, Inc. 582,526, Nov. 17; Serial No. 643,583, published Aug. 18, 1953.

Carpets and rugs. M. J. Whittall. 95,027, re-renewed Jan. 24, 1954. O. G. Nov. 17.

Fabric, Insulating textile. Temp Resisto Corporation. 582,444, Nov. 17; Serial No. 631,227, published Aug. 18, 1953.

Fabrics. Erlanger, N. Blumgart & Co., Inc. 582,577, Nov. 17; Serial No. 634,452.

Fabrics, Textile. D. B. Fuller & Co., Inc. 582,524–5, Nov. 17; Serial Nos. 643,544–5, published Aug. 18, 1953.

Fabrics, Woven textile. Morris Schwartz & Sons, Inc. 582,391, Nov. 17; Serial No. 613,426, published Aug. 18, 1953.

Nettings, Acetate, rayon, nylon, cotton, and elastic. Philip Wick Company, Inc. 582,448–9, Nov. 17; Serial Nos. 631,907–8, published Aug. 18, 1953.

Piece goods, Textile. The Heatherbloom Corporation. 582,454, Nov. 17; Serial No. 632,424, published Feb. 10, 1953.

Piece goods, Textile. H. M. Smyth and Company Limited. 582,527, Nov. 17; Serial No. 643,618, published Aug. 18, 1953.

Piece goods, Waterproof. Harte & Company, Inc. 383,963, Dec. 31, 1940. Republished Nov. 17.

Piece goods, Wool, rayon, cotton and silk. Anglo Fabrics Company, Inc. 582,560, Nov. 17; Serial No. 622,062.

Sheets and pillow cases. Naumkeag Steam Cotton Company. 582,512, Nov. 17; Serial No. 642,157, published Aug. 18, 1953.

Towels, Bath, bath mats, dish towels, etc. Stern Brothers. 582,485, Nov. 17; Serial No. 639,506, published Aug. 18, 1953.

Towels, Textile. L. H. Kanehl. 582,568, Nov. 17; Serial No. 626,577.

Waterproof materials, Cellulose processed. R. S. Harte. 372,659, Nov. 7, 1939. Republished Nov. 17.

CLASS 43

Thread and yarn, Woolen. Compagnie Franco Australienne De Laines Filees. 303,410, renewed May 23, 1953. O. G. Nov. 17.

Thread and yarn, Woolen. Compagnie Franco Australienne De Laines Filees. 303,413, renewed May 23, 1953. O. G. Nov. 17.

CLASS 44

Containers for containment and dispensation of parenteral fluids, and tubes equipped with needles and needle adapters, etc. Travenol Laboratories, Inc. 582,455, Nov. 17; Serial No. 632,637, published Aug. 18, 1953.

Dental handpieces. M. Staunt. 582,399, Nov. 17; Serial No. 620,175, published Aug. 4, 1953.

Jaw recorder and duplicator. Transograph, Incorporated. 582,436, Nov. 17; Serial No. 630,241, published Aug. 18, 1953.

Manicure articles. C. J. Bates & Son. 582,550, Nov. 17; Serial No. 583,312.

Nasal inhaling apparatus. Société Mulhan S. A. R. L. 582,381, Nov. 17; Serial No. 593,247, published Aug. 25, 1953.

Prophylactic articles. American Hygienic Co. 582,429, Nov. 17; Serial No. 629,645, published Aug. 18, 1953.

Syringes, Hypodermic. Becton Dickinson and Company. 582,393, Nov. 17; Serial No. 615,106, published Feb. 12, 1952.

Syringes, Hypodermic. Lurline Products Company. 582,441, Nov. 17; Serial No. 630,602, published Aug. 18, 1953.

CLASS 45

Beverage, Non-alcoholic maltless. Naamlooze Vennootschap Hero Conserven Bresia. 305,915, renewed Aug. 29, 1953. O. G. Nov. 17.

Beverages, Non-alcoholic, non-cereal, maltless. L. C. Greiser. 582,472, Nov. 17; Serial No. 636,704, published July 14, 1953.

Beverages, Nonalcoholic, noncereal, maltless, and sirups for making the same. Home Bottling Works. 154,056, Apr. 4, 1922. Republished Nov. 17.

Extracts, concentrates, compounds and flavoring preparations. John Mulhern Company. 582,390, Nov. 17; Serial No. 611,445, published July 21, 1953.

Imitation strawberry soda, imitation grape soda, imitation cherry soda, etc. American Stores Company. 582,379, Nov. 17; Serial No. 590,055, published July 14, 1953.

Orangeade. Foremost Dairies, Inc. 582,497, Nov. 17; Serial No. 640,929, published July 28, 1953.

Soft drinks, Carbonated coffee flavored maltless, and coffee flavored extract. 'Scoffee, Inc. 582,396, Nov. 17; Serial No. 616,646, published July 21, 1953.

Soft drinks, Nonalcoholic maltless. Saegertown Ginger Ale Co. 582,425, Nov. 17; Serial No. 628,960, published July 14, 1953.

CLASS 46

Biscuit. Johnson Educator Food Company. 93,858, re-renewed Oct. 21, 1953. O. G. Nov. 17.

Butter; oleomargarine; eggs, etc. Beatrice Foods Co. 582,470, Nov. 17; Serial No. 636,582, published Aug. 4, 1953.

Candies. B. J. Bowlby. 582,392, Nov. 17; Serial No. 614,397, published Aug. 11, 1953.

Candies, Chocolate. Frances Sinagnan et Cie, Inc. 306,456, renewed Sept. 19, 1953. O. G. Nov. 17.

Candy. Candy Specialties Company. 306,336, renewed Sept. 19, 1953. O. G. Nov. 17.

Canned and bottled onions and pickles. Benedict Packing Corporation. 582,576, Nov. 17; Serial No. 634,445.

Canned fruits, canned berries, and fresh grapes. George Norolan Company. 582,477, Nov. 17; Serial No. 637,498, published Aug. 11, 1953.

Canned tuna fish. Van Camp Sea Food Company, Inc. 582,502–3, Nov. 17; Serial Nos. 641,355–6, published Aug. 11, 1953.

Cereal foods, Breakfast; Scandinavian style bread, animal feeds, etc. Ralston Purina Company. 582,371, Nov. 17; Serial No. 552,702, published Aug. 4, 1953.

Chewing gum. American Chewing Products Corp. 582,588, Nov. 17; Serial No. 644,887.

Coconuts. R. F. Fels. 582,540, Nov. 17; Serial No. 645,406, published Aug. 11, 1953.

Cottage cheese and frozen confection. J. H. Costello. 582,431, Nov. 17; Serial No. 629,721, published Aug. 11, 1953.

Crackers. Johnson Educator Food Company. 303,230, renewed May 16, 1953. O. G. Nov. 17.

Cucumber relish and cucumber slices. Glaser, Crandell Co. 582,487, Nov. 17; Serial No. 639,631, published Aug. 11, 1953.

Farina, rolled oats, and oatmeal. Robin Hood Mills, Limited. 108,370, Feb. 1, 1916. Republished Nov. 17.

Feed. Schreiber Mills, Inc. 582,452, Nov. 17; Serial No. 632,330, published Feb. 10, 1953.

Fish, Fresh, frozen, and canned; and canned shad roe. Barbey Packing Corporation. 582,545, Nov. 17; Serial No. 646,046, published Aug. 11, 1953.

Flour, Cake, pancake flour, biscuit flour. The Colorado Milling & Elevator Co. 309,862, renewed Feb. 6, 1954. O. G. Nov. 17.

Food, Concentrated. J. F. McKenna. 305,777, renewed Aug. 22, 1953. O. G. Nov. 17.

Fruits, Fresh citrus. Piru Citrus Association. 582,544, Nov. 17; Serial No. 645,762, published Aug. 4, 1953.

Fruits, Fresh deciduous. Rolling Hills Orchards, Inc. 582,542, Nov. 17; Serial No. 645,433, published Aug. 4, 1953.

Fruits, Fresh deciduous. Ukiah Fruit Growers, Inc. 352,487, Nov. 30, 1937. Republished Nov. 17.

Fruits, Fresh, fresh vegetables, and seasonings. Suffolk Farms Packing Co. 582,411, Nov. 17; Serial No. 623,692, published May 19, 1953.

Ham, Boiled. F. G. Vogt & Sons, Incorporated. 306,277, renewed Sept. 12, 1953. O. G. Nov. 17.

Honey. Honey Packers, Inc. 342,822, Feb. 2, 1937. Republished Nov. 17.

Ice-cream, Bulk and packaged, ice-cream sandwiches, bisque tortoni, etc. Andre French Ice Cream Co., Inc. 582,543, Nov. 17; Serial No. 645,459, published Aug. 4, 1953.

Meat products. Smokemasters, Inc. 582,488, Nov. 17; Serial No. 639,786, published Aug. 11, 1953.

Milk, Evaporated. Midland Cooperative Dairy Association. 582,541, Nov. 17; Serial No. 645,422, published Aug. 4, 1953.

Milk solids concentrate. Purity Products Company. 582,471, Nov. 17; Serial No. 636,653, published Aug. 11, 1953.

Popcorn confections, Candied. F. Kontney. 582,408, Nov. 17; Serial No. 622,831, published Aug. 11, 1953.

Poultry, Fresh dressed and frozen frying, roasting and broiling. Tyler-Gregg Poultry and Egg Company, Inc. 582,437, Nov. 17; Serial No. 630,243, published Aug. 11, 1953.

Product composed of wheat germ and other ingredients, etc. W. H. Strowd. 379,735, July 23, 1940. O. G. Nov. 17.

Sauce. Murray Hill Restaurant, Inc. 350,864–5, Oct. 12, 1937. Republished Nov. 17.

Sausage casings. Independent Casing Company. 308,244, renewed Nov. 28, 1953. O. G. Nov. 17.

Shortening. The Procter & Gamble Company. 582,474, Nov. 17; Serial No. 636,956, published July 28, 1953.

Vanilla concentrate, Pure. Florasynth Laboratories, Inc. 306,474, renewed Sept. 19, 1953. O. G. Nov. 17.

Vitamine D-carrying menstruum for ingredients of breads, biscuits, etc. Nopco Laboratories, Inc. 306,141, renewed Sept. 12, 1953. O. G. Nov. 17.
Wheat-flour. The Hunter Milling Company. 92,077. re-renewed June 17, 1953. O. G. Nov. 17.

CLASS 48

Beer. Pittsburgh Brewing Company. 582,494, Nov. 17; Serial No. 640,526, published Aug. 4, 1953.
Porter or malt liquor. Delano Corporation of America. 582,384, Nov. 17; Serial No. 602,894, published July 28, 1953.

CLASS 49

Whiskey and gin. United Distillers Limited. 305,577, renewed Aug. 22, 1953. O. G. Nov. 17.
Whisky. G. Willsher. 307,414, renewed Oct. 24, 1953. O. G. Nov. 17.

CLASS 51

Cathartic pills, sarsaparilla, witch hazel extracts; etc. Lanman & Kemp-Barclay & Co., Incorporated. 308,410, renewed Dec. 5, 1953. O. G. Nov. 17.
Cosmetics, theatrical make-up and similar preparations. Max Factor & Co. 582,522, Nov. 17; Serial No. 643,307, published Aug. 25, 1953.
Face cream. The Armand Company. 582,387, Nov. 17, Serial No. 606,962, published Sept. 30, 1952.
Germicidal and antiseptic preparation. H. J. Block. 305,556, renewed Aug. 22, 1953. O. G. Nov. 17.
Hair shade lightening preparations. Clairol Incorporated. 582,400, Nov. 17; Serial No. 620,802, published Aug. 4, 1953.
Lipstick, mascara, etc. Societe d'Etudes, de Recherches, de Representation et d'Exploitation (S. E. R. R. E.) Societe a Responsabilite Limitee. 443,297, Aug. 23, 1949. New certificate. O. G. Nov. 17. (Formerly Class 6.)
Massage cream. Ortho Pharmaceutical Corporation. 582,478, Nov. 17; Serial No. 637,609, published Aug. 4, 1953.
Pharmaceutical preparation. Marine Chemicals Company, Ltd. 307,488, renewed Oct. 24, 1953. O. G. Nov. 17.
Prevention of excessive perspiration. L. Miller. 142,049, May 3, 1921. Republished Nov. 17.
Skin cleanser, Liquid, skin freshener, non-alcoholic liquid skin astringent, etc. F. O. Miller. 582,432, Nov. 17; Serial No. 629,743, published Aug. 4, 1953.
Toilet cream, medicated preparations. Lanman & Kemp-Barclay & Co., Incorporated. 308,089, renewed Nov. 21, 1953. O. G. Nov. 17.
Toilet water. Lanman & Kemp-Barclay & Co., Incorporated. 308,090, renewed Nov. 21, 1953. O. G. Nov. 17.

CLASS 52

Cleaner, cleanser and detergent, Sudsing. The Hewitt Soap Company, Inc. 582,414, Nov. 17; Serial No. 624,647, published Aug. 18, 1953.
Cleaner for cleaning metal, and a wash for cleaning metal, lacquered, and painted surfaces. Lumin Sales Corporation. 582,475, Nov. 17; Serial No. 636,989, published Aug. 18, 1953.
Shampoo, Coconut oil detergent. R. B. Shelton. 582,422, Nov. 17; Serial No. 628,130, published Aug. 18, 1953.
Soap, Powdered. The Davies-Young Soap Company 582,412, Nov. 17; Serial No. 623,710, published Aug. 25, 1953.
Soap, Surgical. Central Chemical Company. 582,456, Nov. 17; Serial No. 632,826, published Aug. 18, 1953.
Soap, Toilet. Lanman & Kemp-Barclay & Co., Incorporated. 307,871, renewed Nov. 7, 1953. O. G. Nov. 17.
Sulfo derivative of higher fatty alcohol having cleansing and detergent properties. The Procter & Gamble Company. 304,885, renewed July 18, 1953. O. G. Nov. 17.

CLASS 104

Radio program broadcasting services. The Yankee Network Inc. 582,549, Nov. 17; Serial No. 536,331, published Apr. 17, 1951.

CLASS 106

Dyeing and treating fabrics. Hull Dye Works. 582,591, Nov. 17; Serial No. 633,494.

CLASS 107

Instructing in the fundamentals of sport and in the basic principles of music and science, etc. Cowles Broadcasting Company. 582,590, Nov. 17; Serial No. 615,629.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 17TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Best, Cyril: *See*—
Molins, Desmond W., Best, and Chandler.
Chandler, Edward A.: *See*—
Molins, Desmond W., Best, and Chandler.
Dempster Brothers, Incorporated, assignee: *See*—
Jones, Harry W., and Glazer.
Glazer, Guilford: *See*—
Jones, Harry W., and Glazer.
Helmbold, August F. W., Fort Thomas, Ky. Attachment for pressing irons. Re. 23,736, Nov. 17.
Jones, Harry W., and G. Glazer, assignors to Dempster Brothers, Incorporated, Knoxville, Tenn. Baling press. Re. 23,737, Nov. 17.
Molins, Desmond W., and C. Best, London, England, and E. A. Chandler, Montreal, Quebec, Canada, assignors to Molins Machine Company Limited, London, England. Photoelectric weighing mechanism. Re. 23,738, Nov. 17.
Molins Machine Company Limited, assignee: *See*—
Molins, Desmond W., Best, and Chandler.
National Aluminate Corporation, assignee: *See*—
Ryznar, John W., and Peich.
Peich, Majorie A.: *See*—
Ryznar, John W., and Peich.
Polk, Louis F., assignor to The Sheffield Corporation, Dayton, Ohio. Grinding machine with crush-dressing attachment. Re. 23,739, Nov. 17.
Ryznar, John W., La Grange Park, and M. A. Peich, assignors to National Aluminate Corporation, Chicago, Ill. Corrosion inhibiting compositions and method. Re. 23,740, Nov. 17.
Sheffield Corporation, The, assignee: *See*—
Polk, Louis F.
Summers, Edward C., Janesville, Wis. Producing flocked designs. Re. 23,741, Nov. 17.

LIST OF PLANT PATENTEES

Hof Mann, Frederick W., Omaha, Nebr. Nectarine tree. 1,230, Nov. 17.
Weschcke, Carl, St. Paul, Minn. Black walnut tree. 1,229, Nov. 17.

LIST OF DESIGN PATENTEES

Admiral Corporation, assignee: *See*—
Wilson, Lawrence H.
American Furniture Company, assignee: *See*—
Gershun, Merton L.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Paden, Frederick T., and Weiss.
Axel, Edwin: *See*—
Spilman, Raymond, Morrow, and Axel.
Bassler, John R., Newark, assignor to Hudson Lamp Company, Arlington, N. J. Display container for lamp bulbs. 170,846, Nov. 17.
Bodle, Virgil H.: *See*—
Harwin, Dixon R., Stern, and Bodle.
Boucher, Marcel, Eltingeville, N. Y. Necklace or similar article. 170,847, Nov. 17.
Boucher, Marcel, Eltingeville, N. Y. Bracelet or similar article. 170,848, Nov. 17.
Bourjois, Inc., assignee: *See*—
Whitehead, Alice J., and Lang.
Budlong, Robert D., Skokie, Ill., and J. De Young, Grand Haven, Mich., assignors to Zenith Radio Corporation. Radiophonograph cabinet. 170,849, Nov. 17.
Butler, Edwin F., Mount Desert, and C. Hamlin, Southwest Harbor, Maine. Boat. 170,850, Nov. 17.
Chadbourn Hosiery Mills, Inc., assignee: *See*—
Hoffecker, Frank.
Chuboff, David P., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Room cooler. 170,851, Nov. 17
Coro, Inc., assignee: *See*—
Katz, Adolph.
Dayton Rubber Company, The, assignee: *See*—
Kaufman, Paul N.
Dexter-Mahnke Inc., assignee: *See*—
Mecus, Edward E.
De Young, Jack: *See*—
Budlong, Robert D., and De Young.
Doman, Donald W.: *See*—
Girardy, Alfred B., Norby, and Doman.
Dormeyer Corporation, assignee: *See*—
Morgan, Jack.
Drohman, Laurence H., St. Paul, Minn. Drill display unit or similar article. 170,852, Nov. 17.
Dunham, Sidney R., Seattle, Wash. Shower footrest. 170,853, Nov. 17.
Ewart, Elliott S., deceased (V. L. Ewart, executrix), St. Clair Shores, and D. S. Hackley, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y. Tire. 170,854, Nov. 17.
Ewart, Vera L., executrix: *See*—
Ewart, Elliott S., and Hackley.
Fox, Elton B., El Cerrito, Calif. Thermostatic valve. 170,855, Nov. 17.
Gerity-Michigan Corporation, assignee: *See*—
Graff, George.
Gershun, Merton L., assignor to American Furniture Company, Martinsville, Va. Chest. 170,856, Nov. 17.
Girardy, Alfred B., Park Forest, C. V. Norby, Chicago, and D. W. Doman, Harvey, assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car body. 170,857, Nov. 17.
Graff, George, Toledo, Ohio, assignor to Gerity-Michigan Corporation, Adrian, Mich. Dispenser for powdered or granular materials. 170,858, Nov. 17.
Hackley, David S.: *See*—
Ewart, Elliott S., and Hackley.
Hall, Irving B., Chicago, Ill. Clock. 170,859, Nov. 17.
Hamlin, Cyrus: *See*—
Butler, Edwin F., and Hamlin.
Harris, Evelyn, Pelham Manor, N. Y. Child's head support for use in bathtubs. 170,860, Nov. 17.
Harwin, Dixon R., A. Stern, and V. H. Bodle, Los Angeles County, assignors to National Sponge Cushion Co., Inc., Los Angeles, Calif. Rug cushion or similar article. 170,861, Nov. 17.
Hawkinson, Earle W., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire. 170,862, Nov. 17.
Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Earle W.
Hoffecker, Frank, assignor to Chadbourn Hosiery Mills, Inc., Charlotte, N. C. Lady's stocking. 170,863, Nov. 17.
Hudson Lamp Company, assignee: *See*—
Bassler, John R.
Johansson, Ingvar O., Chicago, Ill. Vertical milling machine or similar article. 170,864, Nov. 17.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,865, Nov. 17.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,866, Nov. 17.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,867, Nov. 17.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,868, Nov. 17.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,869, Nov. 17.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,870, Nov. 17.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,871, Nov. 17.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,872, Nov. 17.
Kaufman, Paul N., Dayton, Ohio, assignor to The Dayton Rubber Company. Tire. 170,873, Nov. 17.

Lambert, Raoul A., Springfield, Mass., assignor to Westinghouse Electric Corporation. Food waste disposer or the like. 170,874, Nov. 17.

Lang, John F.: *See*—
Whitehead, Alice J., and Lang.

Levine, Irving A., Woodmere, N. Y. Mailbox. 170,875, Nov. 17.

Levine, Irving A., Woodmere, N. Y. Mailbox. 170,876, Nov. 17.

Loehr, Robert W., Lakewood, Ohio, assignor to Westinghouse Electric Corporation. Luminaire. 170,877, Nov. 17.

Marano, Herbert W., Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill. Combined stapler and staple remover or similar article. 170,878, Nov. 17.

Marano, Herbert W., Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill. Combined desk pad and penholder. 170,879, Nov. 17.

Marano, Herbert W., Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill. Combined desk pad and penholder. 170,880, Nov. 17.

Marano, Herbert W., Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill. Combined desk pad and penholder. 170,881, Nov. 17.

McGunnigle, Roger, New York, N. Y. Television receiver. 170,882, Nov. 17.

Mecus, Edward E., Shorewood, assignor to Dexter-Mahnke Inc., Milwaukee, Wis. Platform for figurines or the like. 170,883, Nov. 17.

Morgan, Jack, assignor to Dormeyer Corporation, Chicago, Ill. Portable food mixer unit. 170,884, Nov. 17.

Morrow, Anthony R.: *See*—
Spilman, Raymond, Morrow, and Axel.

National Sponge Cushion Co., Inc., assignee: *See*—
Harwin, Dixon R., Stern, and Bodle.

Neville, John V., Columbus, Mont., assignor to The Neville-Robinson Company, Duluth, Minn. Arm restraint. 170,885, Nov. 17.

Neville-Robinson Company, The, assignee: *See*—
Neville, John V.

Norby, Clarence V.: *See*—
Girardy, Alfred B., Norby, and Doman.

Paden, Frederick T., Collingswood, N. J., and A. C. H. Weiss, Chicago, Ill., assignors to the United States of America as represented by the Secretary of the Army. Sled. 170,886, Nov. 17.

Paden, Frederick T., Collingswood, N. J., and A. C. H. Weiss, Chicago, Ill., assignors to the United States of America as represented by the Secretary of the Army. Sled. 170,887, Nov. 17.

Paden, Frederick T., Collingswood, N. J., and A. C. H. Weiss, Chicago, Ill., assignors to the United States of America as represented by the Secretary of the Army. Sled. 170,888, Nov. 17.

Pancotti, Mario, Bronxville, N. Y. Accordion grill. 170,889, Nov. 17.

Pancotti, Mario, Bronxville, N. Y. Accordion grill. 170,890, Nov. 17.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Girardy, Alfred B., Norby, and Doman.

Rowe Manufacturing Co., Inc., assignee: *See*—
Spilman, Raymond, Morrow, and Axel.

Rumsey, John C., assignor of one-half to F. R. Vanderhoof, Lawrence, Kans. Nutcracker. 170,891, Nov. 17.

Schoenwald, Alexander, assignor to P. Wall Mfg. Company, Grove City, Pa. Combined holder and handle for electric soldering irons and the like. 170,892, Nov. 17.

Servel, Inc., assignee: *See*—
Chuboff, David P.

Spilman, Raymond, Bronxville, N. Y., A. R. Morrow, Newton, N. J., and E. Axel, Cleveland, Ohio, assignors to Rowe Manufacturing Co., Inc., Whippany, N. J. Cigarette merchandising machine cabinet. 170,893, Nov. 17.

Stern, Alfred: *See*—
Harwin, Dixon R., Stern, and Bodle.

Svic, Echo E., Wauwatosa, Wis. Wall stand. 170,894, Nov. 17.

Tait, Marie, Bloomingdale, N. J. Dress. 170,895, Nov. 17.

United States Rubber Company, assignee: *See*—
Ewart, Elliott S., and Hackley.

Vanderhoof, Ferne R., assignee: *See*—
Rumsey, John C.

Wall, P., Mfg. Company, assignee: *See*—
Schoenwald, Alexander.

Warren, Frances, Pittsburgh, Pa. Apron. 170,896, Nov. 17.

Weiss, Alexander C. H.: *See*—
Paden, Frederick T., and Weiss.

Welsz, Alexander S., Pitman, N. J. Sandal. 170,897, Nov. 17.

Welk, Lawrence, River Forest, Ill. Ash tray. 170,898, Nov. 17.

Westinghouse Electric Corporation, assignee: *See*—
Lambert, Raoul A.
Loehr, Robert W.

Whitehead, Alice J., New York, N. Y., and J. F. Lang, Clifton, N. J., assignors to Bourjois, Inc., New York, N. Y. Combined powder box, lipstick container, and holder therefor or similar article. 170,899, Nov. 17.

Wilson Jones Company, assignee: *See*—
Marano, Herbert W.

Wilson, Lawrence H., Detroit, Mich., assignor to Admiral Corporation, Chicago, Ill. Dehumidifier. 170,900, Nov. 17.

Wolff, Saul K., Long Beach, N. Y. Newspaper and periodical holder or similar article. 170,901, Nov. 17.

Wolff, Saul K., Long Beach, N. Y. Newspaper and periodical holder or similar article. 170,902, Nov. 17.

Zenith Radio Corporation, assignee: *See*—
Budlong, Robert D., and De Young.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 17TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A. P. Controls Corporation, assignee: *See*
Ehlke, Edward C.

A/S Norduco, assignee: *See*—
Berner, Endre, Q., and Kielland.

Abbott, Edward J.: *See*—
Perry, Winthrop L., and Abbott.

Abbott, Samuel L., executor: *See*—
Perry, Winthrop L., and Abbott.

Abbott Worsted Mills, Incorporated, assignee: *See*—
Perry, Winthrop L., and Abbott.

Abraham, Herbert, assignor to The Ruberoid Co., New York, N. Y. Shingle. 2,659,322, Nov. 17.

Acme Visible Records, Inc., assignee: *See*—
Attwood, Charles E.

Acton, Grant M., assignor to Acton Products, Inc., Arkansas City, Kans. Plant box. 2,659,180, Nov. 17.

Acton Products, Inc., assignee: *See*—
Acton, Grant M.

Adshead, Charles W., assignor to Setright Registers Limited, London, England. Ticket printing and issuing machine. 2,659,300, Nov. 17.

Ahlburg, Desda E., assignee: *See*—
Gibson, Harry L.

Aircraft-Marine Products Inc., assignee: *See*—
Berg, Quentin.

Air Reduction Company, Incorporated, assignee: *See*—
Anderson, Nelson E.
Anderson, Nelson E., and Sullivan.

Akshun Mfg. Co., assignee: *See*—
Lees, Gerald M.

Aktiebolaget Bofors, assignee: *See*—
Ericsson, Valter E.

Aktiebolaget Överums Bruk, assignee: *See*—
Berg, Claes, Carlsson, and Ekman.

Aktiebolaget Separator, assignee: *See*—
Hytte, Robert P. L.

Aktiebolaget Skanska Cementgjuteriet, assignee: *See*—
Georgii, Hans P., and Engström.

Aktiengesellschaft Brown, Boveri & Cie., assignee: *See*—
Darrieus, Georges.

Aladdin Industries, Incorporated, assignee: *See*—
Berge, Godshalk.

Albee, Wilder J., Tampa, Fla. Game apparatus. 2,659,163, Nov. 17.

Alexander, Ocie P., assignee: *See*—
Graham, Thomas T.

Allen, Earl H., Westfield, assignor to General Instrument Corpartaion, Elizabeth, N. J. Push-button structure. 2,659,236, Nov. 17.

Allen, Gene: *See*—
Oberholtz, Lester E., and Allen.

Allen, John W., Detroit, Mich. Pouring attachment for paint cans and the like. 2,659,519, Nov. 17.

Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Size gauging device for V type cylinder blocks. 2,659,157, Nov. 17.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Fischer, Raymond C.
Norelius, Emil F.
Scag, Dane T., and Getzlaff.
Tanke, Willard H.

Allison, William M., assignor to Sprague Electric Company, North Adams, Mass. Electrical signal delay device. 2,659,869, Nov. 17.

Aluminum Company of America, assignee: *See*—
Kipp, Egbert M.
Stroup, Philip T.

Alvarez, Alfonso, Jr., Upper Montclair, assignor to Homasote Company, Fernwood, N. J. Roofing or siding assembly. 2,659,323, Nov. 17.

American Brake Company, The, assignee: *See*—
Mueller, Emil G.

American Cyanamid Company, assignee: *See*—
Cosulich, Donna B.
Hardy, William B., and Fortenbaugh.
Vaughan, James R., Jr.
Young, Richard W.

American Laundry Machinery Company, The, assignee: *See*—
McLagan, Russell G.

American Steel Band Company, assignee: *See*—
Bowman, Joseph H.

American Steel Foundries, assignee: *See*—
Keysor, Harold C.

American Window Glass Company, assignee: *See*—
Giulioli, Louis, and Insolio.

Andersen, Gilbert J. C., Stow, Ohio. Ion therapy device comprising a hand electrode. 2,659,372, Nov. 17.

Anderson, Clarence A., San Diego, Calif. Instrument for indicating permeability. 2,659,857, Nov. 17.

Anderson, Hugo, and H. P. Phillips, assignors to Hastings Manufacturing Company, Hastings, Mich. Piston ring assembly and ring support and expander member. 2,659,639, Nov. 17.

Anderson, Lloyd L., and N. S. Waring, Grand Rapids, and A. W. Korb, Grandville, Mich., assignors to Jervis Corporation. Magnetic door seal. 2,659,114, Nov. 17.

Anderson, Lloyd L., and N. S. Waring, Grand Rapids, and A. W. Korb, Grandville, Mich., assignors to Jervis Corporation. Magnetic door seal. 2,659,115, Nov. 17.

Anderson, Lloyd L., and N. S. Waring, Grand Rapids, and A. W. Korb, Grandville, Mich., assignors to Jervis Corporation. Magnetic door seal. 2,659,118, Nov. 17.

Anderson, Nelson E., Berkeley Heights, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Electric welding apparatus. 2,659,796, Nov. 17.

Anderson, Nelson E., Berkeley Heights, and E. T. Sullivan, Laurence Harbor, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y. Arc welding apparatus. 2,659,797, Nov. 17.

Anderson, Norman C., Batavia, assignor to Continental Electric Company, Geneva, Ill. Apparatus and method for making a photoconductive element. 2,659,682, Nov. 17.

Anderson, Raymond B., Oklahoma City, Okla. Flat tire signal. 2,659,781, Nov. 17.

Anderson, William T., Jr., Maplewood, assignor to Hanovia Chemical & Manufacturing Co., Newark, N. J. Electrical conductor for discharge devices. 2,659,183, Nov. 17.

Anderson, William T., Jr., Maplewood, assignor to Hanovia Chemical and Mfg. Company, Newark, N. J. Ultraviolet vapor electric discharge device. 2,659,833, Nov. 17.

Angstadt, John W., Kenmore, N. Y., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa. Method and apparatus for distributing viscous liquids and heavy slurries. 2,659,630, Nov. 17.

Archer, Irving M., assignor to Campbell Taggart Research Corporation, Dallas, Tex. Pan turning mechanism. 2,659,475, Nov. 17.

Argyle, Leroy C., Elmira, assignor to Corning Glass Works, Corning, N. Y. Size control of linear bodies. 2,659,182, Nov. 17.

Arisman, Mervin B.: *See*—
Dally, Arthur M., and Arisman.

Arma Corporation, assignee: *See*—
Cunningham, Frederick W.

Armour and Company, assignee: *See*—
Cook, John S., and Whitney.

Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Camras, Marvin.

Armstrong, Adam E., assignor to Armstrong Machine Works, Three Rivers, Mich. Heating system and control therefor. 2,659,536, Nov. 17.

Armstrong Machine Works, assignee: *See*—
Armstrong, Adam E.

Arnold, Lawrence F., Avon Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparing diacyl cyanides. 2,659,749, Nov. 17.

Arrow Fastener Co., Inc., assignee: *See*—
Boroughs, Frank S.

Ash, Arthur B., Wyandotte, and M. H. Earing, Lincoln Park, assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich. Treatment of carboxymethyl diethers of ethylene glycols to remove HNO_3. 2,659,754, Nov. 17.

Ashton, Benjamin N., assignor to Electrol Incorporated, Kingston, N. Y. Hydraulic power control unit. 2,659,205, Nov. 17.

Attwood, Charles E., assignor to Acme Visible Records, Inc., Chicago, Ill. Selectively operated rotary drum file. 2,659,646, Nov. 17.

Austin Motor Company Limited, The, assignee: *See*—
Layland, William.

Autogiro Company of America, assignee: *See*—
Campbell, Harris S.
Stanley, Paul H.

Automatic Electric Laboratories, Inc., assignee: *See*—
Balzer, Harvey W., and Bakker.
Benno, Edward L.
Johnston, Leith.
MacDonald, Duncan N.

Averill, Charles C., assignor to Union Steel Products Company, Albion, Mich. Device for packaging tire casings and the tire casing assemblies. 2,659,484, Nov. 17.

Avery, Henry C., executor: *See*—
Bates, Joseph D.

Avila, Manuel L., assignee: *See*—
McConnell, John A.

Babcock & Wilcox Company, The, assignee: *See*—
Harter, Isaac, Jr., and Ratcliffe.

Badische Anilin- & Soda-Fabrik Aktiengesellschaft, assignee: *See*—
Schlichting, Otto, Jutz, and Rohland.

Baerwald, Hans G., Cleveland Heights, assignor, by mesne assignments, to Clevite Corporation, Cleveland, Ohio. Transducer device electromechanically sensitive to flexure. 2,659,829, Nov. 17.

Baird, Raymond C., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif. Pulsation eliminator and gas cleaner. 2,659,450, Nov. 17.

Baird, Raymond C., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif. Centrifugal gas cleaner. 2,659,451, Nov. 17.

Baker, Harvey L., Denver, Colo. Stencil cutting knife. 2,659,143, Nov. 17.

Baker Oil Tools, Inc., assignee: *See*—
Baker, Reuben C.

Baker, Reuben C., Conlinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Centering device for well casings. 2,659,439, Nov. 17.

Bakker, Pier: *See*—
Balzer, Harvey W., and Bakker.

Baldwin, John D., Jr., Highland Heights, and J. E. Szitar, Cleveland Heights, assignors to The Weatherhead Company, Cleveland, Ohio. Making dehydrators. 2,659,128, Nov. 17.

Balken, Heinz, Wipperfurth (Rheinland), Lelersmuhle, Germany. Machine for unwinding remnants of yarn from bobbins. 2,659,126, Nov. 17.

Balzer, Harvey W., Downers Grove, and P. Bakker, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Automatic switch for telephone systems. 2,659,771, Nov. 17.

Bandli, John C., assignor to Scott-Atwater Manufacturing Company, Minneapolis, Minn. Starter spring construction. 2,659,454, Nov. 17.

Bank of Commerce and Trust, executor: *See*—
Pople, Gustave A., Jr.

Barber, Edmund A., Jr.: *See*—
Gibbon, John H., Jr., Malmros, Engstrom, and Barber.

Barnes, Marshall C., assignor to Bemis Bro. Bag Company, Minneapolis, Minn. Packaging empty bags. 2,659,187, Nov. 17.

Barney, Harold L., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Inverted grounded emitter transistor amplifier. 2,659,773, Nov. 17.

Barney, Harold L., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Bidirectional transistor amplifier. 2,659,774, Nov. 17.

Barr Rubber Products Company, The, assignee: *See*—
Lawson, George S., and J. C.

Barr, Victor L., Philadelphia, Pa., assignor to Roller Bearing Company of America, Trenton, N. J. Roller bearing for compensating shaft misalignment. 2,659,637, Nov. 17.

Barret, William M., Shreveport, La. Prospecting with timed electric energy. 2,659,882, Nov. 17.

Bartolucci, Edgar O.: *See*—
Waldheim, John J., and Bartolucci.

Bartolucci & Waldheim, assignee: *See*—
Waldheim, John J., and Bartolucci.

Bates, Joseph D., deceased, West Springfield, Mass., by J. A. Bates and H. C. Avery, executors, assignors to J. A. Bates, West Springfield, Mass. Device for applying threaded screws or bolts. 2,659,255, Nov. 17.

Bates, Josephine A., executrix, assignee: *See*—
Bates, Joseph D.

Batten, Percy H., trustee, assignee: *See*—
Nilsson, Hans R., and Trulsson.

Baule, Gerhard H. J., Salina, assignor to Hall & McChesney Inc., Syracuse, N. Y. Roll film viewer. 2,659,267, Nov. 17.

Baumgartner, Frederick N.: *See*—
Lippincott, Samuel B., Baumgartner, and Yowell.

Beach, Howard W., Far Hills, assignor to Eclipse Air Brush Co., Newark, N. J. Sanitary spray gun. 2,659,628, Nov. 17.

Becker, Walter J., Crown Point, Ind. Toy horse. 2,659,600, Nov. 17.

Beckwith, Herbert L., Cambridge, Mass., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Combination luminous and acoustical ceiling. 2,659,808, Nov. 17.

Beeber, Allan R. A., Matawan, assignor to Keuffel & Esser Company, Hoboken, N. J. Measuring tape. 2,659,153, Nov. 17.

Beger, Richard E.: *See*—
Bonanno, Joseph L., and Beger.

Bell, Alan, and M. B. Knowles, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Esterifying carbocyclic carboxylic acids. 2,659,750, Nov. 17.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Barney, Harold L.
Cutler, Cassius C.
Schelleng, John C.
Schneider, Herbert A.
Treuting, Robert G.

Bemis Bro. Bag Company, assignee: *See*—
Barnes, Marshall C.

Bendix Aviation Corporation, assignee: *See*—
Lowe, Theodore M.
Murphy, Norman B.
Ochtman, Leonard.
Werker, William A., and Steenfeld.

Benno, Edward L., Skokie, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Graphic recorder. 2,659,651, Nov. 17.

Berg, Claes, H. Carlsson, and R. V. Ekman, assignors to Aktiebolaget Overums Bruk, Overum, Sweden. Potato harvesting machine and separating conveyer therefor. 2,659,189, Nov. 17.

Berg, Quentin, New Cumberland, assignor to Aircraft-Marine Products Inc., Harrisburg, Pa. Electrical connector strip having laterally displaced strip feeding edges. 2,659,871, Nov. 17.

Berge, Godshalk, assignor to Aladdin Industries, Incorporated, Chicago, Ill. Magnetic core and manufacturing same. 2,659,698, Nov. 17.

Berger, Harold C., South Ozone Park, N. Y. Safety appliance for switches. 2,659,780, Nov. 17.

Berger, Maurice P., Paris, France. Pneumatic accumulator. 2,659,391, Nov. 17.

Berger, Sidney E., Cranston, R. I. and K. M. Webb, Swansea, Mass., assignors to United States Rubber Company, New York, N. Y. Mixtures of plasticized vinyl resin and thermoset phenol-aldehyde resin and making the same. 2,659,708, Nov. 17.

Berman, Oscar A., New York, N. Y. Cushion or the like. 2,659,418, Nov. 17.

Bernartz, Alexander A.: *See*—
Paparazzo, Louis, and Bernartz.

Berner, Endre Q., Slemdal, near Oslo, and J. Kielland, Heroya, near Porsgrunn, assignors, by mesne assignments, to A/S Norduco, Oslo, Norway. Recovery of potassium from sea water and saline aqueous solutions. 2,659,656, Nov. 17.

Binks Manufacturing Company, assignee: *See*—
Wilmes, William L.

Bird, Frederick J., De Witt, Iowa. Bending apparatus. 2,659,411, Nov. 17.

Bird & Son, Inc., assignee: *See*—
Lincoln, Edward L.

Bishop, Harry A.: *See*—
Bogot, Alexander, and Bishop.

Bither, Isaiah M., Providence, R. I. Oil burner nozzle head element. 2,659,427, Nov. 17.

Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Portable outdoor cooking or camp stove. 2,659,360, Nov. 17.

Bitterlin, Otto: *See*—
Bossard, Werner, and Bitterlin.

Bjering, Olav: *See*—
Ninneman, Eric O., Webster, Hohl, and Bjering.

Blackmon, John O., assignee: *See*—
Trautmann, Herbert L.

Blanchard, Paul, Paris, France. Furnace. 2,659,588, Nov. 17.

Blank, Cecil G.: *See*—
Little, John M., and Blank.

Blanning, Harry K., Chicago, Ill., assignor, by mesne assignments, to International Steel Company, Evansville, Ind. Seal for valve actuators. 2,659,242, Nov. 17.

Blatt, Paula, Cleveland, Ohio. Drop-seat panty. 2,659,367, Nov. 17.

Blaw-Knox Company, assignee: *See*—
Angstadt, John W.

Bloch, Herman S.: *See*—
Thompson, Ralph B., and Bloch.

Boardman, Raymond H., assignor to The Hart Manufacturing Company, Hartford, Conn. Electric switch. 2,659,792, Nov. 17.

Boeing Airplane Company, assignee: *See*—
Schlender, William H.

Boggs, Alben C., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Sheathed resistor electric heater. 2,659,795, Nov. 17.

Bogot, Alexander, Oak Park, Ill., and H. A. Bishop, Highland Homes, Va., assignors to Combustion Engineering, Inc., New York, N. Y. Detection of stoppage in the flow of divided material. 2,659,881, Nov. 17.

Bolanovich, Mirko, assignor to McDonnell Aircraft Corporation, St. Louis, Mo. Flame holder and fuel distributing mechanism for ram-jet engines. 2,659,195, Nov. 17.

Bombardier, Joseph A., Valcourt, Quebec, Canada. Vulcanizing apparatus. 2,659,101, Nov. 17.

Bonanno, Joseph L., Madison, and R. E. Beger, Jersey City, N. J., assignor to The Lionel Corporation, New York, N. Y. Toy locomotive. 2,659,317, Nov. 17.

Boone, Lloyd W., San Antonio, Tex. Commode top cover holder. 2,659,091, Nov. 17.

Borden Company, The, assignee: *See*—
Howard, Hartley W., and Muller.

Boroughs, Frank S., Elmhurst, assignor to Arrow Fastener Co., Inc., Brooklyn, N. Y. Hand type staple tacker. 2,659,083, Nov. 17.

Bosdet, Enrique N., Mexico City, Mexico. Apparatus for economizing fuel and increasing power output of internal-combustion engines. 2,659,667, Nov. 17.

Bossard, Werner, Riehen, near Basel, and O. Bitterlin, assignors to J. R. Geigy A. G., Basel, Switzerland. Trisazo dyestuffs. 2,659,721, Nov. 17.

Botley, Richard M., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Can stacker and unstacker. 2,659,495, Nov. 17.

Botley, Richard M., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Can stacker and unstacker. 2,659,496, Nov. 17.

Bowen Co. of Texas, Inc., assignee: *See*—
Linney, Douglas M.

Bowen, William S., Westfield, N. J. Calcining apparatus. 2,659,587, Nov. 17.

Bowman, Joseph H., assignor to American Steel Band Company, Pittsburgh, Pa. Insulated metal wall panel. 2,659,461, Nov. 17.

Boyle, John R., assignor to E. A. Mertes, Chicago, Ill. Milk cooler. 2,659,579, Nov. 17.

Bradley, John J., Grosse Pointe, assignor to The Gear Grinding Machine Company, Detroit, Mich. Trumpet for use in textile industry. 2,659,108, Nov. 17.

Branson Instruments, Inc., assignee: *See*—
Branson, Norman G.

Branson, Norman G., assignor to Branson Instruments, Inc., Stamford, Conn. Apparatus for electrical thickness measurement. 2,659,861, Nov. 17.

Branson, Norman G., assignor to Branson Instruments, Inc., Stamford, Conn. Apparatus for electrical measurement of thickness using current ratios. 2,659,862, Nov. 17.

Breazeale, William M., assignor to Institute of Textile Technology, Charlottesville, Va. Method and apparatus for measuring moisture content. 2,659,860, Nov. 17.

Brennan, Raymond F., Attleboro, Mass. Magnetic attaching means for ornamental objects. 2,659,169, Nov. 17.

Brickner, Frank H., Newport Beach, Calif. Slide-type calculator. 2,659,532, Nov. 17.

Bridgeport Fabrics, Inc., assignee: *See*—
Spraragen, Louis.

British Insulated Callender's Cables Limited, assignee: *See*—
Ripley, Stanley W.

British Oxygen Company Limited, The, assignee: *See*—
Sargent, Roger W. H.

Broadbent, William B., and B. H. Sing, Hartsville, S. C., assignors to Sonoco Products Company. Bobbin. 2,659,547, Nov. 17.

Brock, Glenn C.: *See*—
Humphreys, Robert L., Brock, and Reynolds.

Brooks, Richard E.: *See*—
Youngquist, Orrin G., Smook, and Brooks.

Brosselin, Michel, assignor to Société dite: Usines Gallus (Societe Anonyme) Courbevoie, France. Electrocardiovectographic device. 2,659,363, Nov. 17.

Broussard, Elton J., assignee: *See*—
Broussard, Vernon P.

Broussard, Paul O., assignee: *See*—
Broussard, Vernon P.

Broussard, Vernon P., St. Martinville, La., assignor of one-third to E. J. Broussard and one-third to P. O. Broussard. Utility loader. 2,659,494, Nov. 17.

Brown, Hugh M., assignor to Clemson Agricultural College of South Carolina, Clemson, S. C. Porosity tester. 2,659,433, Nov. 17.

Brown, Ned C. L., Scottsville, assignor to General Railway Signal Company, Rochester, N. Y. Switch machine. 2,659,812, Nov. 17.

Brown, Robert C., Jr., trustee, assignee: *See*—
Burnham, Edwin.

Brown, William E.: *See*—
Hoke, Richard P., and Brown.

Brown, William H., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Centrifugal fuel supply means for jet engine afterburners. 2,659,196, Nov. 17.

Browne, Lindsay H., Westport, Conn. Cake filler. 2,659,320, Nov. 17.

Bruckmann, Paul M. W., Alpine, N. J., assignor to The de Florez Company, Inc., New York, N. Y. Coughing valve. 2,659,364, Nov. 17.

Bryant, Austin U.: *See*—
Grove, Marvin H., and Bryant.

Buck, Frank A. M.: *See*—
Works, William R., and Buck.

Budd Company, The, assignee: *See*—
Kay, John G.
Watter, Michael.

Builders Iron Foundry, assignee: *See*—
Thoresen, John C.

Burdick-Baron Company, assignee: *See*—
Hill, Eldon J.

Burke, Charles E., Norfolk, Va. Back rest. 2,659,420, Nov. 17.

Burkholder, Melvin S., Beaverdam, assignor of one-half to W. G. Hardy, Wapakoneta, Ohio. Ridge grinder for engine cylinders. 2,659,186, Nov. 17.

Burn, Philip H., Forest Hills, A. Graham, New York, and A. G. Lorimer, Douglaston, N. Y. All ramp garage. 2,659,109, Nov. 17.

Burndy Engineering Company, Inc., assignee: *See*—
Dupre, Henry P., and Matthysse.

Burnham, Edwin, Glenview, assignor to R. C. Brown, Jr., Highland Park, Ill., as trustee. Position indicating means for X-ray projectors. 2,659,824, Nov. 17.

Burr, Gordon A., Pruitt, Ark. Pivoted blade cultivator. 2,659,285, Nov. 17.

Busk, Robert S.: *See*—
Leontis, Thomas E., and Busk.

Butler, William L., Schenectady, N. Y., assignor to General Electric Company. Switch mechanism. 2,659,785, Nov. 17.

Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Automatic set-up carton. 2,659,526, Nov. 17.

C. A. V. Limited, assignee: *See*—
Nicolls, Wilfrid E. W.
Waters, Albert V.

Caler, William R., Washington, Ind. Mechanical movement for screening machines. 2,659,487, Nov. 17.

California Portland Cement Company, assignee: *See*—
Kaiser, Harry E., and Campbell.

California Research Corporation, assignee: *See*—
Humphreys, Robert L., Brock, and Reynolds.

California Wire Products Co., Inc., assignee: *See*—
Hayden, Edward E.

Calvert, Raymond, New Malden, assignor to The Wayne Kerr Laboratories Limited, Surrey, England. High-frequency alternating current transformer. 2,659,845, Nov. 17.

Campbell, Harris S., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Control system for tandem rotor helicopters. 2,659,551, Nov. 17.

Campbell Taggart Research Corporation, assignee: *See*—
Archer, Irving M.

Campbell, William C.: *See*—
Kaiser, Harry E., and Campbell.

Camras, Marvin, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Drive mechanism for magnetic recorders. 2,659,541, Nov. 17.

Capito, Gregory D., Warren, Ohio. Device for loading the magazines of automatic guns. 2,659,173, Nov. 17.

Capra, Elzo B., Mantova, Italy. Multiple point connector for braces. 2,659,618, Nov. 17.

Carlson, Melvin G., assignor to Goodman Manufacturing Company, Chicago, Ill. Hydraulic control system for articulated locomotives and the like. 2,659,203, Nov. 17.

Carlson, Melvin G., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine hydraulic control system and master safety valve therefor. 2,659,206, Nov. 17.

Carlsson, Herbert: *See*—
Berg, Claes, Carlsson, and Ekman.

Carpenter, Wilbur D., Coffeyville, Kans. Variable multi-purpose lure. 2,659,175, Nov. 17.

Carr, William F., assignor to Lear, Incorporated, Grand Rapids, Mich. Two-speed planetary transmission. 2,659,249, Nov. 17.

Carroll, Robert P., assignor to Davey Compressor Company, Kent, Ohio. Air wall building structure. 2,659,110, Nov. 17.

Carson, Frank L., Los Angeles, Calif. Rotary pump. 2,659,313, Nov. 17.

Carson, Richard M., and R. R. Saeks, Dayton, Ohio. Composition for testing for glucose in biological fluids. 2,659,700, Nov. 17.

Case, J. I., Company, assignee: *See*—
Wells, Frank W., and Kulbavy.

Caserta, Victor, Bridgeport, Conn. Pin curl clip. 2,659,378, Nov. 17.

Caserta, Victor, Bridgeport, Conn. Pin curl clip. 2,659,379, Nov. 17.

Casey, Robert T., Bristol, Conn., assignor to General Electric Company. Electric circuit breaker. 2,659,783, Nov. 17.

Casey, Robert T., Bristol, Conn., assignor, by mesne assignments, to General Electric Company. Circuit breaker switch unit. 2,659,788, Nov. 17.

Castelli, Charles, Union City, assignor, by mesne assignments, to Columbia Protektosite Co. Inc., Carlstadt, N. J. Combination plastic and metal eyeglass frame construction. 2,659,269, Nov. 17.

Cataldo, John R., Bernardsville, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Electrical fixture. 2,659,873, Nov. 17.

Celanese Corporation of America, assignee: *See*—
Morgan, Chester S., Jr., and Robertson.

Central Hanover Bank and Trust Company, corporate executor: *See*—
McLaren, Peter J.

Cherry, Ralph E., Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y. Drive torque limiting device. 2,659,220, Nov. 17.

Chicago Nipple Manufacturing Company, assignee: *See*—
Marsden, George B.

Chicago Telephone Supply Corporation, assignee: *See*—
Daily, Arthur M., and Arisman.

Chivers, Henry A., Balwyn, Victoria, Australia. Clutching device for windshield wipers. 2,659,465, Nov. 17.

Chromart Film Industries, assignee: *See*—
Von Fraunhofer, Hans, Verkinderen, and Meeussen.
Chronic, Clarence C., Wheeler, and C. A. Shaffer, Charleston, assignors to Lever Motors Corporation, Wheaton, Ill. Internal-combustion engine. 2,659,351, Nov. 17.
Church, Robert E., Elkin, N. C. Steering mechanism for rotary mowers. 2,659,445, Nov. 17.
Ciba Pharmaceutical Products, Inc., assignee: *See*—
Druey, Jean.
Cleaver, Arthur V.: *See*—
Halford, Frank B., Cleaver, and Dove.
Clemson Agricultural College of South Carolina, assignee: *See*—
Brown, Hugh M.
Clendenin, Burl, Seth, W. Va. Permanent picket fence. 2,659,578, Nov. 17.
Clevite Corporation, assignee: *See*—
Baerwald, Hans G.
Clifford, Thomas W., and J. Mills, assignors to Taylor, Taylor & Hobson Limited, Leicester, England. Folding roll film camera. 2,659,283, Nov. 17.
Cloud, Donald E. and W. S., Wilmette, Ill., said D. E. Cloud assignor to said W. S. Cloud. Method and apparatus for depositing a weighed fill in a receptacle. 2,659,562, Nov. 17.
Cloud, William S.: *See*—
Cloud, Donald E. and W. S.
Clough, Newsome H., Brentwood, assignor to Marconis Wireless Telegraph Company Limited, London, England. Aerial system. 2,659,819, Nov. 17.
Cobb, Leland D., Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich. Demountable closure. 2,659,617, Nov. 17.
Cobb, Neal L., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Machine for testing characteristics of gear cutters, gears, and the like. 2,659,158, Nov. 17.
Coda, William A., Kingsville, Ontario, Canada. Shock absorber. 2,659,595, Nov. 17.
Coggburn, Harley L., Big Bear Lake, Calif. Automobile air conditioning unit. 2,659,214, Nov. 17.
Collins Radio Company, assignee: *See*—
Pappenfus, Ernest W.
Collins, Raymond N., Schenectady, N. Y., assignor to General Electric Company. Temperature control device. 2,659,801, Nov. 17.
Columbia Protektosite Co. Inc., assignee: *See*—
Castelli, Charles.
Columbian Carbon Company, assignee: *See*—
Heller, George L.
Comber, William R., Erie, Pa. Protective bib for vehicles. 2,659,523, Nov. 17.
Combustion Engineering, Inc., assignee: *See*—
Bogot, Alexander, and Bishop.
Commerce, United States of America as represented by the Secretary of, assignee: *See*—
Hipple, John A., Jr.
Commonwealth Engineering Company of Ohio, The, assignee: *See*—
Toulmin, Harry A., Jr., and Stauffer.
Compagnie Internationale des Pieux Armés Franklgnoul, Société Anonyme, assignee: *See*—
Jourdain, André P.
Conkle, Samuel F., Columbus, Ohio. Culinary device. 2,659,144, Nov. 17.
Continental Electric Company, assignee: *See*—
Anderson, Norman C.
Continuous Metalcast Co., Inc., assignee: *See*—
Easton, Rufus, and Wilson.
Conveyor Company, Inc., The, assignee: *See*—
Saxe, Walter E.
Conway, Hugh G., G. Orloff, and R. Fairclough, Gloucester, England, assignors to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland. Hydraulic power system. 2,659,204, Nov. 17.
Conyers, James B., Atlanta, Ga. Three-legged carrier for invalids. 2,659,092, Nov. 17.
Cook, Don F.: *See*—
Eckhardt, Owen S., Cook, and Knapp.
Cook, Harvey A., University Heights, Ohio. Explosion-cycle inducer-disk valve turbojet engine for aircraft propulsion. 2,659,198, Nov. 17.
Cook, John S., Kansas City, and D. V. Whitney, Jr., Liberty, Mo., assignors to Armour and Company, Chicago, Ill. Medicine bottle label. 2,659,614, Nov. 17.
Coover, Harry W., Jr., and J. B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Alpha-acylaminomethyl acrylonitriles and polymers thereof. 2,659,715, Nov. 17.
Copley, Harold E., Worthington, Ohio, assignor, by mesne assignments, to The Haloid Company, Rochester, N. Y. Developing electrostatic images. 2,659,670, Nov. 17.
Corning Glass Works, assignee: *See*—
Argyle, Leroy C.
Cornish, Irving R., Elmhurst, Ill. Desk with a shiftable top section. 2,659,645, Nov. 17.
Cossor, A. C., Limited, assignee: *See*—
Fleming-Williams, Brian C., and Wynn.
Costello, Frank E., Philadelphia, Pa. Ammunition declipping machine. 2,659,263, Nov. 17.
Cosulich, Donna B., Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Substituted formyltetrahydropteroyl amino acids and preparing the same. 2,659,726, Nov. 17.
Coulter, Wallace H., Chicago, Ill. Amplifier circuit having series-connected tubes. 2,659,775, Nov. 17.
Cowsar, Louis, Longview, assignor of one-half to O. E. Cowsar, New London, Tex. Rocking horse. 2,659,602, Nov. 17.
Cowsar, Orville E., assignee: *See*—
Cowsar, Louis.
Craig, Burnie J., Los Angeles County, Calif. Coincidental door locking system. 2,659,230, Nov. 17.
Craig, Paul N., Elkins Park, and F. P. Nabenhauer, assignors to Smith, Kline & French Laboratories, Philadelphia, Pa. Bis-hydroxytetrahydroisoquinolyl-alkanes. 2,659,728, Nov. 17.
Cramer, Roy A., Kansas City, Mo. Caster. 2,659,100, Nov. 17.
Cramer, Roy A., Kansas City, Mo. Posture chair. 2,659,413, Nov. 17.
Crampton Manufacturing Company, assignee: *See*—
Jacobson, Edwin B.
Crist Engineering Company, assignee: *See*—
Hadden, Edward L.
Croker, Arthur W.: *See*—
Doeg, Paul R., and Croker.
Crookston, Robert R., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Live load weight indicator assembly. 2,659,574, Nov. 17.
Cunningham, Frederick W., Stamford, Conn., assignor to Arma Corporation, Brooklyn, N. Y. Automatic cam cutting motor control apparatus. 2,659,849, Nov. 17.
Curtis, Daniel L., Venice, Calif., assignor to Hughes Tool Company, Houston, Tex. Electrical gating circuits. 2,659,815, Nov. 17.
Cusano, Dominic A., and F. J. Studer, Schenectady, N. Y., assignors to General Electric Company. Transparent luminescent screen and preparing same. 2,659,678, Nov. 17.
Cusic, John W., Skokie, and R. A. Robinson, Morton Grove, assignors to G. D. Searle & Co., Chicago, Ill. Quaternary ammonium salts of heterocyclylalkanol esters of xanthene-9-carboxylic acid. 2,659,725, Nov. 17.
Cusic, John W., Skokie, and R. A. Robinson, Morton Grove, assignors to G. D. Searle & Co., Chicago, Ill. Quaternary ammonium salts of dialkyl aminoalkyl xanthene-9-carboxylates and the production thereof. 2,659,732, Nov. 17.
Cutler, Cassius C., Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Translation of electromagnetic waves. 2,659,817, Nov. 17.
Cutler-Hammer, Inc., assignee: *See*—
McNicol, Forrest C.
Czerniawski, Emil J., Bracknell, England. Filing device. 2,659,512, Nov. 17.
Daglish, Anthony F., Reigate, and D. Faulkner, Epsom, England, assignors to The Distillers Company, Limited, Edinburgh, Scotland. Stabilized vinylidene chloride compositions. 2,659,709, Nov. 17.
Daily, Arthur M., and M. B. Arisman, assignors to Chicago Telephone Supply Corporation, Elkart, Ind. Variable resistance control device. 2,659,793, Nov. 17.
Da-Lite Screen Company, Inc., assignee: *See*—
Du Mais, Leo J.
Darrieus, Georges, Houilles, France, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Apparatus for automatic balancing of rotating bodies. 2,659,243, Nov. 17.
Davey Compressor Company, assignee: *See*—
Carroll, Robert P.
Davis, Lewis E., Burbank, Calif. Self-contained burglar alarm unit. 2,659,333, Nov. 17.
Davison, Edward D., Waukegan, assignor of one-half to T. Polansek, Chicago, Ill. Wire stripper. 2,659,140, Nov. 17.
Davison, Gordon W., Port Colborne, Ontario, Canada. Electrical dry shaver. 2,659,139, Nov. 17.
De Bell, George W., Stamford, Conn. Making hollow plastic articles. 2,659,107, Nov. 17.
De Florez Company, Inc., The, assignee: *See*—
Bruckmann, Paul M. W.
De Havilland Engine Company Limited, The, assignee: *See*—
Halford, Frank B., Cleaver, and Dove.
De Hoffmann, Felix, Buenos Aires, Argentina. Penholder. 2,659,482, Nov. 17.
De Jouette, Marthe, Toulon, France. Motor-cultivator with trailing implement and operator seat. 2,659,287, Nov. 17.
De Lano, Walter W., assignor to The Hamilton Tool Company, Hamilton, Ohio. Means for varying the circumference of printing cylinders. 2,659,306, Nov. 17.
Delta Concrete Products Co., Inc., assignee: *See*—
Holland, Victor L.
Den Herder, Marvin J.: *See*—
Heard, Llewellyn, and Den Herder.
Dethlof, T. C., assignee: *See*—
Glomb, John S.
Detling, Kenneth D., Berkeley, and T. Skei, Lafayette, assignors to Shell Development Company, San Francisco, Calif. Maintaining activity of cuprous oxide catalyst in oxidation of olefins. 2,659,758, Nov. 17.
Detroit Edison Company, The, assignee: *See*—
Gray, William C.

Deubel, Justin A.: *See*—
Hotchkiss, Clifford, and Deubel.
Dickey, Joseph B.: *See*—
Coover, Harry W., Jr., and Dickey.
Dickey, Joseph B., and E. B. Towne, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. 2-amino-5-nitrothiazole azo dye compounds. 2,659,719, Nov. 17.
Dickey, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. 1-hydroxy-4-β-cyanopropylaminoanthraquinone and preparing same. 2,659,739, Nov. 17.
Dickey, Joseph B., and E. B. Towne, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. 1,5-dihydroxy-8-halo-4-aminoanthraquinone compounds. 2,659,740, Nov. 17.
Dickinson, Lee A., Ben Lomond, Calif. Safety switch. 2,659,791, Nov. 17.
Dictaphone Corporation, assignee: *See*—
Trevitt, John H.
Dillard, James, Cincinnati, Ohio. Bolt-holding box wrench. 2,659,258, Nov. 17.
Distillers Company Limited, The, assignee: *See*—
Daglish, Anthony F., and Faulkner.
Ditto, Incorporated, assignee: *See*—
Quirk, Robert W.
Doblhoff, Friedrich L. U., St. Louis, Mo. Distributing insecticides or fungicides and steam jet-driven helicopter for performing same. 2,659,556, Nov. 17.
Dodd, Arthur E., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Apparatus for detecting recurrent circuit operation. 2,659,880, Nov. 17.
Doeg, Paul R., Lynbrook, and A. W. Croker, Valley Stream, assignors to The Peelle Company, Brooklyn, N. Y. Latch for counterbalanced elevator doors. 2,659,457, Nov. 17.
Donnelly, John H., New York, N. Y. Measuring valve with rigidly connected reciprocating valves. 2,659,518, Nov. 17.
Dorkins, Evan E., assignor to Ottawa Steel Products, Inc., Ottawa, Kans. Drop hammer and carriage therefor. 2,659,583, Nov. 17.
Dorkins, Evan E., assignor to Ottawa Steel Products, Inc., Ottawa, Kans. Self-propelled hydraulic hammer. 2,659,584, Nov. 17.
Doug, Joe V., Fresno, Calif. Guard for portable power saws. 2,659,399, Nov. 17.
Dove, Ernest B.: *See*—
Halford, Frank B., Cleaver, and Dove.
Dow Chemical Company, The, assignee: *See*—
Frevel, Ludo K., and Hedelund.
Frevel, Ludo K., and Kressley.
Leontis, Thomas E., and Busk.
Zemba, John W.
Doyle, Dewey I., Sr., assignor to Doyle Vacuum Cleaner Co., Grand Rapids, Mich. Vacuum cleaner implement and handle coupling. 2,659,616, Nov. 17.
Doyle Vacuum Cleaner Co., assignee: *See*—
Doyle, Dewey I., Sr.
Drake, Claud E., Brentwood, Mo. Carbide tipped planer saw. 2,659,397, Nov. 17.
Draxler, Karl J., Los Angeles, Calif. Sliding table top. 2,659,641, Nov. 17.
Drexler, Murray, assignee: *See*—
Morin, Louis H.
Druey, Jean, Riehen, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. α-aroyl-β-trichlormethyl-ethylenes. 2,659,757, Nov. 17.
Ducharme, William G., Hartford, Conn. Padlock having gravity actuated detent. 2,659,228, Nov. 17.
Dudley, Darle W., South Peabody, Mass., assignor to General Electric Company. Thrust bearing. 2,659,635, Nov. 17.
Duffy, Frank A., Jr., Kansas City, Mo. Electrical conduit bending and straightening device. 2,659,410, Nov. 17.
Duley, Roscoe A., La Mesa, and M. E. Hosler, San Diego, Calif. Syringe supporting and identifying tray. 2,659,485, Nov. 17.
Du Mais, Leo J., assignor to Da-Lite Screen Company, Inc., Chicago, Ill. Picture screen stand. 2,659,559, Nov. 17.
Duncan, Arlis M., Pasadena, Calif. Transfer chute for connection between dry cleaning and solvent recovery machines. 2,659,224, Nov. 17.
Dunn, John F., Dos Palos, Calif. Water heater. 2,659,804, Nov. 17.
Dunn, Joseph L., Randolph Township, Montgomery County, Ohio. Electrical splice box. 2,659,765, Nov. 17.
Dunod, Jean, assignor to Qualitex-Société Dunod & Cie, Paris, France. Arrangement for the formation and beating up of the wefts in circular weaving looms. 2,659,393, Nov. 17.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
Ewing, Alvin L.
Wilkins, John P., and Wittbecker.
Youngquist, Orrin G., Smook, and Brooks.
Magat, Eugene E.
Rarick, Morgan J.
Du Pont, Preston E., Kansas City, Mo. Transportation fare apparatus. 2,659,470, Nov. 17.
Dupre, Henry P., Croton-on-Hudson, and I. F. Matthysse, New York, N. Y., assignors to Burndy Engineering Company, Inc. Indentable jack-type connector. 2,659,876, Nov. 17.
Durham, Hobart N., Munsey Park, N. Y. Testing and training apparatus. 2,659,164, Nov. 17.
Du Rocher, Gideon A., Grosse Pointe Farms, assignor to Essex Wire Corporation, Detroit, Mich. Directional signal system for vehicles. 2,659,838, Nov. 17.
Dutro, Lyle V., La Canada, and J. F. Nameth, Los Angeles, Calif., assignors to The McBee Company, Athens, Ohio. Shear assembly. 2,659,436, Nov. 17.
Dynamatic Corporation, assignee: *See*—
Jaeschke, Ralph L.
Earing, Mason H.: *See*—
Ash, Arthur B., and Earing.
Eastman Kodak Company, assignee: *See*—
Bell, Alan, and Knowles.
Coover, Harry W., Jr., and Dickey.
Dickey, Joseph B.
Dickey, Joseph B., and Towne.
Gray, Glen G.
Merritt, Ernest R.
Parsons, William F., and Poling.
Steuber, Albert H.
Straley, James M.
Thompson, Russell G.
Tuttle, Fordyce E., and Newcomb.
Easton, Rufus, Schenectady, and T. Y. Wilson, Albany, N. Y., assignors to Continuous Metalcast Co., Inc., Wilmington, Del. Pouring box for continuous casting machines. 2,659,121, Nov. 17.
Eaves, Ausie C., Brawley, Calif., assignor to Ralston Purina Company, St. Louis, Mo. Feed preservation. 2,659,161, Nov. 17.
Eckhardt, Owen S., Columbia, Miss., D. F. Cook, South Bend, Ind., and I. E. Knapp, Columbia, Miss., assignors to Leach Brothers, Inc. Treatment of resin acid-fatty acid mixtures. 2,659,718, Nov. 17.
Eckstein, Karl J., assignee: *See*—
Parry, Robert D.
Eclipse Air Brush Co., assignee: *See*—
Beach, Howard W.
Eggenberger, Hans: *See*—
Von Allmen, Samuel, and Eggenberger.
Ehlke, Edward C., assignor to A. P. Controls Corporation, Milwaukee, Wis. Sealed valve. 2,659,569, Nov. 17.
Elsner, Edwin J., Kansas City, Mo. Translating assembly for beam-type weighing scale. 2,659,594, Nov. 17.
Ekman, Reinhold V.: *See*—
Berg, Claes, Carlsson, and Ekman.
Electric & Musical Industries Limited, assignee: *See*—
Holman, Herbert E.
Electrol Incorporated, assignee: *See*—
Ashton, Benjamin N.
Elliott, George, Rochester, N. Y., assignor to Stromberg-Carlson Company. Telephone reverting call system. 2,659,769, Nov. 17.
Elliott, George, Rochester, N. Y., assignor to Stromberg-Carlson Company. Ringing control circuit for telephone systems. 2,659,770, Nov. 17.
Elliott, William S., Borehamwood, England. Light beam stabilizing system. 2,659,828, Nov. 17.
Enchelmaier, William F., Cedar Grove, N. J. Making brushes. 2,659,632, Nov. 17.
English, Joseph R., Erie, Pa. Combined indicating plate and pull wire. 2,659,335, Nov. 17.
Engstrom, John R.: *See*—
Gibbon, John H., Jr., Malmros, Engstrom, and Barber.
Engström, Nils O. H.: *See*—
Georgii, Hans P., and Engström.
Ens, Emil J.: *See*—
Magnus, Finn H., and Ens.
Erickson, Lewis C., assignor to National Iron Company, Duluth, Minn. Mine skip. 2,659,302, Nov. 17.
Erickson, Reinhold W., Euclid, Ohio, and C. S. Olson, Long Beach, Miss. Clamp for holding dentures. 2,659,146, Nov. 17.
Ericson, Hilda M., Youngstown, Ohio. Brassière. 2,659,085, Nov. 17.
Ericsson, Eric A., Stockholm, A. O. Jörgensen, Traneberg, and S. L. Överby, assignors to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden. Modulation by magnetic control of super conductors. 2,659,868, Nov. 17.
Ericsson, Valter E., Karlskoga, assignor to Aktiebolaget Bofors, Bofors, Sweden. Aiming device for guns. 2,659,275, Nov. 17.
Essex Products, Inc., assignee: *See*—
Zabriskie, Charles L.
Essex Wire Corporation, assignee: *See*—
Du Rocher, Gideon A.
Etablissements Paul Duclos, assignee: *See*—
Galin, Marc.
Ewing, Alvin L., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for advancing and processing strands. 2,659,225, Nov. 17.

Excell, Arthur W., Thornton Heath, assignor to Powers-Samas Accounting Machines Limited, London, England. Record card controlled sensing and printing means. 2,659,302, Nov. 17.

Ezr, Karel, assignor to Tesla, Narodni Podnik, Prague, Czechoslovakia. Signal responsive driving or follow-up device. 2,659,847, Nov. 17.

Fagg, Leo W., and D. O. Johnson, assignors to Johnson-Fagg Engineering Company, Tulsa, Okla. Dynamometer apparatus. 2,659,233, Nov. 17.

Fahey, Edward W., Chicago, Ill., and G. S. Wolf, New York, N. Y., assignors to General Package Corporation. Continuous feed egg room equipment. 2,659,473, Nov. 17.

Fahey, Richard J., Evanston, Ill., assignor to General Package Corporation. Carton setup machine. 2,659,279, Nov. 17.

Failla, Gioacchino, New York, and H. H. Rossi, Orangeburg, N. Y., assignors to the United States of America as represented by the United States Atomic Energy Commission. Radiation measuring device. 2,659,826, Nov. 17.

Fairclough, Roy. : *See*—
Conway, Hugh G., Orloff, and Fairclough.

Falkner, Carl G. : *See*—
Goodbar, Mayo A., Placke, and Falkner.

Farley & Loetscher Manufacturing Company, assignee : *See*—
Triller, Benjamin J.

Farris, Victor W., Tenafly, N. J. Pinch valve mechanism. 2,659,387, Nov. 17.

Faulkner, Donald : *See*—
Daglish, Anthony F., and Faulkner.

Faust, Jacob, Belleville, N. J., assignor to L. Sonneborn Sons, Inc. Lubricating greases. 2,659,695, Nov. 17.

Feerick, Jay, Oakland, assignor of one-third to C. E. Welch, Hayward, and one-third to W. J. Pacheco, Oakland, Calif. Detachable gun sight mount. 2,659,150, Nov. 17.

Fellows Gear Shaper Company, The, assignee : *See*—
Cobb, Neal L.
Miller, Edward W.

Fender, Verle L., Carbondale, Colo. Dehorning tool. 2,659,142, Nov. 17.

Ferguson, John L., Jr., assignor to Printing Equipment Corporation, Joliet, Ill. Printer's central post form table. 2,659,571, Nov. 17.

Ferguson, William, assignor to National Airoil Burner Company, Incorporated, Philadelphia, Pa. Combustion apparatus for furnaces. 2,659,424, Nov. 17.

Feuer, Henry : *See*—
Hass, Henry B., and Feuer.

Fiat S. p. A., assignee : *See*—
Mosso, Angelo, and Montanari.

Fiedler, Ernst, Scotch Plains, N. J. Alarm system for oil and gas fired heating furnaces. 2,659,334, Nov. 17.

Fineman, Bernard and I., Philadelphia, Pa. Separable guard for trouble lamps. 2,659,810, Nov. 17.

Fineman, Isadore : *See*—
Fineman, Bernard and I.

Fischer, Raymond C., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Drawbar assembly. 2,659,610, Nov. 17.

Fisher, James B., Pacific, Mo. Cigarette extinguisher. 2,659,377, Nov. 17.

Fisk, Charles F., Clifton, and A. W. Meyer, Nutley, N. J., assignors to United States Rubber Company, New York, N. Y. Compounding process and product thereof from a mixture of a phenol-formaldehyde resin, butadiene-acrylonitrile copolymer, and a nonsolvent hydrocarbon plasticizer. 2,659,706, Nov. 17.

Fixture Hardware Corporation, The, assignee : *See*—
Keil, Henry P.

Fleming-Williams, Brian C., and A. H. A. Wynn, assignors to A. C. Cossor Limited, London, England. Nonsinusoidal amplifier. 2,659,816, Nov. 17.

Florman, Irving, New York, N. Y. Mouthpiece for smoking utensils. 2,659,376, Nov. 17.

Fluor Corporation, Ltd., The, assignee : *See*—
Baird, Raymond C.

Fogal, Gordon L., and A. M. Mitnick, Silver Spring, Md., assignors to the United States of America as represented by the Secretary of the Navy. Parachute pack latch mechanism. 2,659,557, Nov. 17.

Folkers, Karl, Plainfield, assignor to Merck & Co., Inc., Rahway, N. J. Producing butyrolactones. 2,659,733, Nov. 17.

Fong, Yue S., Hong Kong, China. Bottle cap. 2,659,509, Nov. 17.

Food Machinery and Chemical Corporation, assignee : *See*—
Hudson, Kenneth K.
Verrinder, Ernest A.

Fortenbaugh, Robert B. : *See*—
Hardy, William B., and Fortenbaugh.

Foster, Norman M. : *See*—
Howle, Ernest O., Jackson, and Foster.

Fot, Chin J., assignor to Guyan Machinery Company, Logan, W. Va. Insulator mounting. 2,659,766, Nov. 17.

Frager, Louis C. E., Paris, France. Safety device for water supply networks. 2,659,383, Nov. 17.

Framhein, Herbert J., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Compound pressure pump. 2,659,307, Nov. 17.

Franz, Raymond A., assignor to Lion Oil Company, El Dorado, Ark. Preparing acrylonitrile. 2,659,748, Nov. 17.

Fraschetti, Virgilio, London, England. Device for treating with disinfectant the mouthpieces of telephones and like apparatus. 2,659,778, Nov. 17.

Freeman, Henry R., Shreveport, La. Attachable reel for fishing rods. 2,659,544, Nov. 17.

Frenkel, Meyer, London, England. Heat exchanger. 2,659,392, Nov. 17.

Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Correction and make-up of type matter for planographic printing processes. 2,659,282, Nov. 17.

Frevel, Ludo K., and J. W. Hedelund, assignors to The Dow Chemical Company, Midland, Mich. Bromination of benzene-series hydrocarbons. 2,659,760, Nov. 17.

Frevel, Ludo K., Midland, and L. J. Kressley, Saginaw, assignors to The Dow Chemical Company, Midland, Mich. Fractional crystallization method. 2,659,761, Nov. 17.

Friedheim, Ernst A. H., New York, N. Y. Triazine organometallic compounds and preparing same. 2,659,723, Nov. 17.

Friesz, Eugene G., Burns, Oreg. Tie rack. 2,659,643, Nov. 17.

Galin, Marc, assignor to Etablissements Paul Duclos, Le Canet-Marseille, France. Cable-feed mechanism for cable ships. 2,659,549, Nov. 17.

Gannaway, Robertson R., Oak Park, Ill., assignor to Raytheon Manufacturing Company. Duration ratio regulator. 2,659,856, Nov. 17.

Gardner, Andrew L., Berkeley, Calif., assignor, by mesne assignments, to the United States of America. Sequence spark gap system. 2,659,839, Nov. 17.

Garnier, Michel R., and J. C. J. Poujade, assignors to Societe dite : Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Societe Anonyme, Paris, France. Hollow drive shaft construction for turbine driven compressors. 2,659,530, Nov. 17.

Garrett Corporation, The, assignee : *See*—
Wood, Homer J.

Garrett, Hayden J. and R. H., Houston, Tex. Cooking apparatus. 2,659,802, Nov. 17.

Garrett, Richard H. : *See*—
Garrett, Hayden J. and R. H.

Gaydasch, Alexander, Broadview, assignor to Universal Oil Products Company, Chicago, Ill. Condensate trap. 2,659,452, Nov. 17.

Gear Grinding Machine Company, The, assignee : *See*—
Bradley, John J.

Geigy, J. R., A. G., assignee : *See*—
Bossard, Werner, and Bitterlin.
Häfliger, Franz, and Girod.
Kuster, Werner.

Geissman, Theodore A., Los Angeles, Calif. Dehydrogenation of coumaranes. 2,659,734, Nov. 17.

General Aniline & Film Corporation, assignee : *See*—
Kucher, Joseph A.

General Electric Company, assignee : *See*—
Butler, William L.
Casey, Robert T.
Collins, Raymond N.
Cusano, Dominic A., and Studer.
Dudley, Darle W.
Koller, Lewis R.
Lafferty, James M.
Lee, Alfred R.
Lubahn, Jack D.
Martin, Robert W.
Murdock, Lawrence C.
Rich, Theodore A.
Rich, Theodore A., and Morlock.
Starkey, Neal E.
Veitch, Albert H.

General Electric Company, Limited, The, assignee : *See*—
Robson, Robert.

General Fuse Company, assignee : *See*—
Jurgensen, August P.

General Instrument Corporation, assignee : *See*—
Allen, Earl H.

General Motors Corporation, assignee : *See*—
Cobb, Leland D.

General Package Corporation, assignee : *See*—
Fahey, Edward W., and Wolf.
Fahey, Richard J.

General Precision Laboratory Incorporated, assignee : *See*—
MacLea, Robert K., Jr., Greenwood, and Ziebolz.

General Railway Signal Company, assignee : *See*—
Brown, Ned C. L.

Genter, Albert H., Mount Lebanon, Pa. Car stop. 2,659,316, Nov. 17.

George, Melvin F., Jr., Los Angeles, and P. M. Reedy, Jr., assignors to Lockheed Aircraft Corporation, Burbank, Calif. Hydraulic fluid of polyhydric alcohol and trialkyl phosphate. 2,659,699, Nov. 17.

Georgii, Hans P., Stockholm, and N. O. H. Engström, Bromma, Stockholm, assignors to Aktiebolaget Skanska Cementgjuteriet, Stockholm, Sweden. Apparatus for making concrete elements. 2,659,123, Nov. 17.

Gerhold, Clarence G. : *See*—
Haensel, Vladimir, and Gerhold.

Germer Edmund, Berlin-Wannsee, Germany, assignor to Hanovia Chemical & Manufacturing Co., Newark, N. J. Electric discharge device. 2,659,835, Nov. 17.

Germer, Edmund, Berlin-Wannsee, Germany, assignor to Hanovia Chemical & Manufacturing Co., Newark, N. J. Electric discharge device. 2,659,836, Nov. 17.

Getzlaff, Donald K. : *See*—
Scag, Dane T., and Getzlaff.

Gevaert Photo-Producten N. V., assignee : *See*—
Von Fraunhofer, Hans V., and Meeussen.

Gibbon, John H., Jr., Philadelphia, Pa., G. V. A. Malmros, Binghamton, J. R. Engstrom, Endicott, and E. A. Barber, Jr., Johnson City, N. Y., assignors to The Jefferson Medical College of Philadelphia, Philadelphia, Pa. Extracorporeal circulation device. 2,659,368, Nov. 17.

Gibson, Harry L., assignor to D. E. Ahlburg, Los Angeles, Calif. Nut weighing and bagging apparatus. 2,659,564, Nov. 17.

Gilbert, Leon, Stamford, assignor to Winchester Electronics, Inc., Glenbrook, Conn. Electrical connector hood assembly. 2,659,872, Nov. 17.

Gilbert, Philo G., assignor, by mesne assignments, to Gilbert Wheel, Inc., Portland, Oreg. Rim driving wheel. 2,659,405, Nov. 17.

Gilbert Wheel, Inc., assignee : *See*—
Gilbert, Philo G.

Gillespie, James E., Toledo, Ohio. Outboard engine mounting device. 2,659,558, Nov. 17.

Gilliland, Roger L. : *See*—
Swartwout, Denton K., III, and Gilliland.

Gillman, Harry, assignee : *See*—
Gillman, Max B.

Gillman, Max B., New Hyde Park, assignor of one-half to H. Gillman, Flushing, N. Y. Preformed dental inlay. 2,659,145, Nov. 17.

Giori, Gualtiero, Buenos Aires, Argentina. Multicolor rotary intaglio, letterpress, and offset printing press. 2,659,305, Nov. 17.

Girod, Emil : *See*—
Häfliger, Franz, and Girod.

Gislon, André, Paris, and J. Quiquerez, Saint-Cloud, assignors to Societe Anonyme dite Compagnie Francaise de Raffinage, Paris, France. Refining petroleum products. 2,659,691, Nov. 17.

Giulioli, Louis, Okmulgee, Okla., and T. A. Insollo, Ellwood City, assignors to American Window Glass Company, Pittsburgh, Pa., Bulb-edge glass-cutting mechanism. 2,659,148, Nov. 17.

Glasser, Charles F., Salladasburg, Pa. Punching bag apparatus. 2,659,603, Nov. 17.

Gleaner Harvester Corporation, assignee : *See*—
Oberholtz, Lester E., and Allen.

Gledhill, Alvin F., Seattle, and L. R. Lewis, Kirkland, assignors to F. L. and L. R. Lewis, doing business as L. R. Lewis Co., Seattle, Wash. Shake board resawing machine. 2,659,396, Nov. 17.

Globe Products Heat Seal Corporation, assignee : *See*—
Reitzes, Herbert L.

Glomb, John S., Barberton, assignor of one-half to T. C. Dethloff, Akron, Ohio. Cultivator. 2,659,290, Nov. 17.

Glubiak, Casper, New York, N. Y. Key ejecting device. 2,659,231, Nov. 17.

Glynn, Edwin A., assignor to Super Mold Corporation of California, Lodi, Calif. Tire locating ring assembly for retreading molds. 2,659,104, Nov. 17.

Goldmann, Theodore F., Mamaroneck, N. Y. Dental mirror having a repolishable light transmitting plastic cover disk. 2,659,272, Nov. 17.

Golubics, John F., Los Angeles, Calif. Fastening device. 2,659,122, Nov. 17.

Goodbar, Mayo A., E. H. Placke, and C. G. Falkner, assignors to The National Cash Register Company, Dayton, Ohio. Printing mechanism for accounting machines. 2,659,301, Nov. 17.

Good Humor Corporation, assignee : *See*—
Otken, Edwin J.

Goodman Manufacturing Company, assignee : *See*—
Carlson, Melvin G.
McCallum, Robert A.

Goodrich, B. F., Company, The, assignee : *See*—
Arnold, Lawrence P.
Gregory, James T.

Graham, Alexander : *See*—
Burn, Philip H., Graham, and Lorimer.

Graham, Thomas T., assignor of one-half to O. P. Alexander, Houston, Tex. Rechargeable pressure spray device. 2,659,629, Nov. 17.

Gramatky, Ferdinand G., West Sacramento, Calif. Asphalt spreading device. 2,659,625, Nov. 17.

Grand, Constantine G., New York, N. Y. Light meter for microphotography. 2,659,268, Nov. 17.

Gray, Glen G., assignor to Eastman Kodak Company, Rochester, N. Y. Preparation of photographic paper having good curl characteristics. 2,659,680, Nov. 17.

Gray, William C., assignor to The Detroit Edison Company, Detroit, Mich. Paint stirrer. 2,659,581, Nov. 17.

Green, Richard W., assignor to Rotary Lift Company, Memphis, Tenn. Hinged axle support for automotive vehicle lifts. 2,659,455, Nov. 17.

Greenwood, Ivan A., Jr. : *See*—
MacLea, Robert K., Jr., Greenwood, and Ziebolz.

Gregory, James T., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparing beta-(arylsulfonyl) carboxylic acids and salts thereof. 2,659,752, Nov. 17.

Griffon, Claudius, Saint-Etienne, France. Flushing device for water closets. 2,659,089, Nov. 17.

Griswold, Morris N. : *See*—
Jarrett, Chester C., and Griswold.

Grove, Marvin H., Piedmont, and A. U. Bryant, Berkeley, assignors, by mesne assignments, to Grove Regulator Company, Oakland, Calif. Valve construction. 2,659,568, Nov. 17.

Grove Regulator Company, assignee : *See*—
Grove, Marvin H., and Bryant.

Grow, Harlow B., Linden, Mo. Pipe preconditioner. 2,659,375, Nov. 17.

Grubbs, Sydney D., Sr., Martinsville, Ind. Daylight shield for drive-in or other outdoor moving picture theater projection screens. 2,659,429, Nov. 17.

Grubola, Edward F., Long Island City, N. Y. Educational toy. 2,659,165, Nov. 17.

Gundelfinger, William E. : *See*—
Lehmann, George A., and Gundelfinger.

Guy, Frederick M., assignor to U. S. Universal Joints Company, Detroit, Mich. Combined resilient coupling and vibration dampener. 2,659,244, Nov. 17.

Guyan Machinery Company, assignee : *See*—
Fot, Chin J.

Guyer, Frank C., Lowell, Mass., assignor to Sonoco Products Company, Winding core. 2,659,543, Nov. 17.

Haake, Eugene V., Cleveland, Ohio. Radio range tracking system. 2,659,883, Nov. 17.

Haban, Joseph, Sturtevant, Wis. Farm row crop shredder. 2,659,188, Nov. 17.

Hacklander, Hans, South Sterling, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electrode mounting structure for radio-frequency seaming machines. 2,659,806, Nov. 17.

Hadden, Edward L., Westfield, assignor to Crist Engineering Company, Plainfield, N. J. Dispensing machine loading mechanism. 2,659,644, Nov. 17.

Hadley, H. A., Associates, Inc., assignee : *See*—
Singleton, Lester D.

Haensel, Vladimir, Hinsdale, and C. G. Gerhold, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Catalytic reforming of hydrocarbons in two stages utilizing a platinum alumina-halogen catalyst composite. 2,659,692, Nov. 17.

Häuger, Franz, Basel, and E. Girod, Riehen, near Basel, assignors to J. R. Geigy A. G., Basel, Switzerland. Diammonium salts. 2,659,756, Nov. 17.

Halbig, Paul, and C. Taddei, Fribourg, Switzerland. Tempering curved glasses of organic materials. 2,659,105, Nov. 17.

Hale, Arthur N., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-controlling mechanisms for sewing machines. 2,659,329, Nov. 17.

Haley, Allan M., assignor of twenty-five per cent to K. L. Stout and twenty-five per cent to K. Krumpholz, Los Angeles, Calif. Apparatus for controlling the movement and stopping of a band of material. 2,659,779, Nov. 17.

Haley, James T., Syracuse, N. Y. Portable arm support. 2,659,423, Nov. 17.

Halford, Frank B., Edgware, A. V. Cleaver, London, and E. B. Dove, East Barnet, assignors to The De Havilland Engine Company Limited, Stonegrove, Edgware, England. Control system for rocket motors. 2,659,197, Nov. 17.

Hall Harding Limited, assignee : *See*—
Leuch, Werner P.

Hall & McChesney Inc., assignee : *See*—
Baule, Gerhard H. J.

Hallett, Charles H., Cleveland, and E. F. Heiser, Parma, Ohio, assignors to Ross Operating Valve Company, Detroit, Mich. Speed control valve. 2,659,386, Nov. 17.

Haloid Company, The, assignee : *See*—
Copley, Harold E.

Halpin, George F., and E. Lazaroff ; said Lazaroff assignor of one-fourth to I. Lazaroff, New Haven, Conn. Mechanical hem marker. 2,659,147, Nov. 17.

Hamilton Tool Company, The, assignee : *See*—
De Lano, Walter W.

Hampe, Pierre, assignor of one-half to Societe dite : Etablissements & Laboratoires Georges Truffaut, Versailles, France. Means for electrifying pulverulent materials. 2,659,841, Nov. 17.

Handren, Arthur V., Jr., Birmingham, assignor to No-Sag Spring Company, Warren Township, Mich. Spring assembly for spring cushion construction. 2,659,417, Nov. 17.

Hanover Bank, The, corporate executor : *See*—
McLaren, Peter J.

Hanovia Chemical & Manufacturing Co., assignee : *See*—
Anderson, William T., Jr.
Germer, Edmund.

Hanovia Chemical and Mfg. Company, assignee : *See*—
Anderson, William T., Jr.

Hansen, Harry E., coexecutor : *See*—
McLaren, Peter J.

Hardy, Wilbur G., assignee : *See*—
Burkholder, Melvin S.

Hardy, William B., Bound Brook, and R. B. Fortenbaugh, Gladstone, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparation of leuco-indanthrone sulfuric esters. 2,659,727, Nov. 17.

Harman, Denham, Orinda, and A. R. Stiles, Berkeley, assignors to Shell Development Company, Emeryville, Calif. Allyl-type phosphinates and polymers of the same. 2,659,714, Nov. 17.

Harman, Marion W., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Guanidine salts of pentachlorophenol. 2,659,755, Nov. 17.

Harris-Seybold Company, assignee : *See*—
Wood, James R.

Harrison, George T., assignor to Tilghman Packing Company, Tilghman, Md. Machine for coating raw oysters. 2,659,338, Nov. 17.

Harrison, George T., assignor to Tilghman Packing Company, Tilghman, Md. Breading machine for raw oysters. 2,659,339, Nov. 17.

Harrison, Thomas R., Wyncote, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature measuring apparatus. 2,659,234, Nov. 17.

Hart, Edward L., Abington, assignor to Philco Corporation, Philadelphia, Pa. Refrigerating apparatus and cabinet structure. 2,659,213, Nov. 17.

Hart Manufacturing Company, The, assignee : *See*—
Boardman, Raymond H.

Hart, Thomas F. : *See*—
Yenni, Donald M., and Hart.

Harter, Isaac, Jr., and T. W. Radcliffe, Beaver, Pa., assignors, by mesne assignments, to The Babcock & Wilcox Company, Jersey City, N. J. Apparatus for separating slag from a slag containing molten metal. 2,659,120, Nov. 17.

Hartford National Bank and Trust Company, trustee, assignee : *See*—
Unk, Jacob M.

Harvey, Herbert, assignor to L. M. Harvey, Los Angeles, Calif. Fabricated faucet fixture. 2,659,389, Nov. 17.

Harvey, Leo M., assignee : *See*—
Harvey, Herbert.

Harz, Albert W., Orlando, Fla. Spray boom. 2,659,624, Nov. 17.

Hass, Henry B., and H. Feuer, assignors to Purdue Research Foundation, West Lafayette, Ind. Esters of nitroacetic acid. 2,659,751, Nov. 17.

Hastings Manufacturing Company, assignee : *See*—
Anderson, Hugo, and Phillips.

Hawaiian Pineapple Company, Limited, assignee : *See*—
Botley, Richard M.

Haworth, Lionel : *See*—
Rubbra, Arthur A., and Haworth.

Hayden, Edward E., assignor to California Wire Products Co., Inc., Visalia, Calif. Gas valve. 2,659,385, Nov. 17.

Heard, Llewellyn, Hammond, Ind., and M. J. Den Herder, assignors to Standard Oil Company, Chicago, Ill. Solubilized platinum sulfide reforming catalyst. 2,659,701, Nov. 17.

Hedelund, John W. : *See*—
Frevel, Ludo K., and Hedelund.

Hegedüs, Ede, Zurich, Switzerland, assignor, by mesne assignments, to The Warner & Swasey Company, Cleveland, Ohio. Twisting device. 2,659,193, Nov. 17.

Heiland, Carl A., Denver, Colo. Method of and apparatus for aeromagnetic prospecting. 2,659,859, Nov. 17.

Heinta Manufacturing Company, assignee : *See*—
Wolf, Robert W.

Heiser, Elmer F. : *See*—
Hallett, Charles H., and Heiser.

Held, Lawrence L. : *See*—
Layne, Mark B., and Held.

Heller, George L., Monroe, La., assignor to Columbian Carbon Company, New York, N. Y. Producing carbon black. 2,659,662, Nov. 17.

Heller, George L., Monroe, La., assignor to Columbian Carbon Company, New York, N. Y. Producing carbon black. 2,659,663, Nov. 17.

Henderson, Robert M., Bound Brook, assignor to Worthington Corporation, Harrison, N. J. Charging door for transit concrete mixers. 2,659,514, Nov. 17.

Henry, Cashly A., Dayton, Ohio. Steering device for trailers. 2,659,611, Nov. 17.

Henry, Earle G., Wilmette, assignor to R. T. Moloney, Chicago, Ill. Light beam target mechanism. 2,659,608, Nov. 17.

Henry, Robert E., Pittsburgh, Pa. Temporary concrete form for use with plumbing installations. 2,659,124, Nov. 17.

Herbert, Gustave H., Bronxville, N. Y. Enclosure device for pet animals. 2,659,344, Nov. 17.

Herbert, Gustave H., Bronxville, N. Y. Combination rest and feeding device for animals. 2,659,345, Nov. 17.

Hermann, Edward O., Mill Valley, Calif. Adjustable brace. 2,659,319, Nov. 17.

Hersperger, Herman, Roselle, N. J. Window ventilator. 2,659,294, Nov. 17.

Heyman, Moses D., Woodmere, N. Y. Means and method for producing a continuous sheet of integrated mica. 2,659,412, Nov. 17.

Heyman, Sam, New Bedford, Mass. Collapsible reclining chair. 2,659,416, Nov. 17.

Hickman, Clarence N., Albuquerque, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Integrating accelerometer. 2,659,589, Nov. 17.

Hieger, Robert H., Detroit, Mich. Fuel gauge for internal-combustion engine carburetors. 2,659,152, Nov. 17.

Hill, Eldon J., assignor to Burdick-Baron Company, Dallas, Tex. Advertising sign. 2,659,170, Nov. 17.

Hill, Eldon J., assignor to Burdick-Baron Company, Dallas, Tex. Advertising sign. 2,659,171, Nov. 17.

Hill, Olva E., West Boylston, assignor to Norton Company, Worcester, Mass. Grinding wheel truing apparatus. 2,659,358, Nov. 17.

Hill, Olva E., West Boylston, assignor to Norton Company, Worcester, Mass. Grinding wheel truing apparatus. 2,659,359, Nov. 17.

Hi-Loy Company, Inc., assignee : *See*—
Miller, Frank A.

Hilpman, Paul, Garden City, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing machine. 2,659,478, Nov. 17.

Himes, John M., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Planetary wheel suspension for carpet sweepers. 2,659,095, Nov. 17.

Hipple, John A., Jr., Chevy Chase, Md., assignor to the United States of America as represented by the Secretary of Commerce. Spectrometric analysis of solids. 2,659,821, Nov. 17.

Hoar, Paul, South Portland, Maine. Convertible hassock and table. 2,659,414, Nov. 17.

Hobbs, Howard F., assignor to Hobbs Transmission Limited, Leamington Spa, England. Lubricated friction disk. 2,659,468, Nov. 17.

Hobbs Transmission Limited, assignee : *See*—
Hobbs, Howard F.

Hohl, John : *See*—
Ninneman, Eric O., Webster, Hohl, and Rjering.

Hoke, Richard P., and W. E. Brown, assignors to C. D. Shelburne, Shelburn, Ind. Fishing reel. 2,659,545, Nov. 17.

Holbrook, Francis C., Brooklyn, N. Y. Refractory damper. 2,659,361, Nov. 17.

Holland, Victor L., assignor to Delta Concrete Products Co., Inc., Denham Springs, La. Interlocking precast concrete bench. 2,659,422, Nov. 17.

Holley, Earl, assignee : *See*—
Holley, George M., Jr.

Holley, George M., assignee : *See*—
Holley, George M., Jr.

Holley, George M., Jr., Grosse Pointe, Mich., assignor to G. M. and E. Holley. Fuel injection for internal-combustion engines. 2,659,309, Nov. 17.

Holman, Harry P., Arkansas City, Kans. Drag weight for covering and packing planted seed. 2,659,289, Nov. 17.

Holman, Herbert E., West Drayton, assignor to Electric & Musical Industries Limited, Hayes, England. Screw and nut mechanism. 2,659,241, Nov. 17.

Homasote Company, assignee : *See*—
Alvarez, Alfonso, Jr.

Hönig, Fritz, assignor to Veitscher Magnesitwerke-Aktiengesellschaft, Vienna, Austria. Suspended brick roof with flexible suspension means. 2,659,325, Nov. 17.

Hönig, Fritz, assignor to Veitscher Magnesitwerke-Aktiengesellschaft, Vienna, Austria. Roof for tilting furnaces. 2,659,326, Nov. 17.

Hönig, Fritz, assignor to Veitscher Magnesitwerke-Aktiengesellschaft, Vienna, Austria. Furnace roof. 2,659,327, Nov. 17.

Hosler, Merril E. : *See*—
Duley, Roscoe A., and Hosler.

Hotchkiss, Clifford, and J. A. Deubel, assignors to Perfex Corporation, Milwaukee, Wis. Air volume control system and apparatus. 2,659,535, Nov. 17.

Howard, Hartley W., Hastings on Hudson, N. Y., and J. F. Muller, Princeton, N. J., assignors to The Borden Company. Infant food. 2,659,676, Nov. 17.

Howle, Ernest O., and R. W. Jackson, Chicago, Ill., and N. M. Foster, New Castle, Ind., said Jackson and said Foster assignors to said Howle. Apparatus for treating and bagging perlite and the like. 2,659,521, Nov. 17.

Huber, Robert, Bellevue, France, assignor to Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., Geneva, Switzerland. Regulating system for power plants, including a free piston autogenerator and a receiver machine such as a turbine. 2,659,194, Nov. 17.

Huck Co., assignee : *See*—
Huck, William F.

Huck, William F., Forest Hills, assignor to Huck Co., New York, N. Y. Cutting and gripping mechanism for printing machines. 2,659,437, Nov. 17.

Huddleston, Richard H., Jr. : *See*—
Phillips, William E., and Huddleston.

Hudson, Kenneth K., Tampa, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Drum type orange juicer. 2,659,298, Nov. 17.

Hufnagel, Andrew, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company. Code following relay. 2,659,786, Nov. 17.

Hughes, Claude A., High Point, N. C. Reclining chair with coordinated leg rest. 2,659,415, Nov. 17.

Hughes Tool Company, assignee : *See*—
Curtis, Daniel L.

Humphreys, Robert L., El Cerrito, G. C. Brock, Richmond, and C. K. Reynolds, El Cerrito, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Xylene separation. 2,659,763, Nov. 17.

Hurst, Alonzo, Providence, R. I. Spectacle temple. 2,659,270, Nov. 17.

Hyndman, Olan R., Denver, Colo. Toning photographs and composition therefor. 2,659,674, Nov. 17.

Hytte, Robert P. L., Lund, assignor to Aktiebolaget Separator, Stockholm, Sweden. Plate heat exchanger. 2,659,580, Nov. 17.

Ifield, Richard J., Dural, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England. Liquid fuel injection means for prime movers. 2,659,382, Nov. 17.

Ifield, Richard J., Dural, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England. Liquid fuel regulating means for use with prime movers. 2,659,425, Nov. 17.

Imbt, Herbert, assignor to Worthington Mower Company, Stroudsburg, Pa. Gang mower interconnecting means. 2,659,190, Nov. 17.

Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Honing machine. 2,659,185, Nov. 17.

Insolio, Thomas A. : *See*—
Giulioli, Louis, and Insolio.

Institute of Textile Technology, assignee : *See*—
Breazeale, William McSwain.

Insul, Jack, Chicago, Ill. Warning signal. 2,659,336, Nov. 17.

International Rectifier Corporation, assignee : *See*—
Rudolph, Hans A.

International Steel Company, assignee : *See*—
Blanning, Harry K.

Intertype Corporation, assignee : *See*—
Freund, Herman R.

Ireland, Murray, assignor to McGraw Electric Company, Elgin, Ill. Electric heating element. 2,659,799, Nov. 17.

Iron Fireman Manufacturing Company, assignee : *See*—
Judson, Albert L.

Jackson, Albert P., Des Moines, Iowa. Device for cleaning dentures. 2,659,380, Nov. 17.

Jackson Industries Inc., assignee : *See*—
Latimer, James T.

Jackson, Roger W. : *See*—
Howle, Ernest O., Jackson, and Foster.

Jacobson, Edwin B., Grand Rapids, Mich., assignor to Crampton Manufacturing Company. Latch mechanism. 2,659,621, Nov. 17.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Speed control system for electromagnetic coupling. 2,659,832, Nov. 17.

James, Esther D. : *See*—
James, Stephen F. and E. D.

James, Stephen F. and E. D., Chicago, Ill. Vibrator. 2,659,784, Nov. 17.

Janke and Company, assignee : *See*—
Storer, Merrill E.

Jarrett, Chester C., and M. N. Griswold, Enumclaw, Wash. Jig for mortising doors and jambs. 2,659,159, Nov. 17.

Jefferson Medical College of Philadelphia, The, assignee : *See*—
Gibbon, John H., Jr., Malmros, Engstrom, and Barber.

Jennings, Louis A. : *See*—
Sage, Richard W., and Jennings.

Jervis Corporation, assignee : *See*—
Anderson, Lloyd L., Waring, and Korb.
Korb, Anton W.

Jobert, Arthur H., assignor to The New Britain Machine Company, New Britain, Conn. Stock feed mechanism for bar machines. 2,659,127, Nov. 17.

Johnson, Andrew G., Lakewood, and T. A. St. Clair, South Euclid, assignors to The Weatherhead Company, Cleveland, Ohio. Cylinder valve. 2,659,565, Nov. 17.

Johnson, Douglas O. : *See*—
Fagg, Leo W., and Johnson.

Johnson-Fagg Engineering Company, assignee : *See*—
Fagg, Leo W., and Johnson.

Johnson, Rudolph C., Minneapolis, Minn. Vehicle towing device. 2,659,609, Nov. 17.

Johnston, Leith, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Control circuit for vending machines. 2,659,471, Nov. 17.

Jones, George M., Jenkintown, Pa. Food masher. 2,659,403, Nov. 17.

Jones, Roger T., Batesville, Ark. Sliding jaw latch for wrenches. 2,659,259, Nov. 17.

Jones, William S., assignor of one-half to A. Summers, Jr., Pittsburgh, Pa. Folding hat cover. 2,659,481, Nov. 17.

Jonker, Frederick, Washington, D. C. Beverage container. 2,659,507, Nov. 17.

Jörgensen, Anders O. : *See*—
Ericsson, Eric A., Jörgensen, and Överby.

Joslyn Mfg. & Supply Co., assignee : *See*—
Yonkers, Edward H., Jr.

Jourdain, André P., Brussels, assignor to Compagnie Internationale des Pieux Armés Frankignoul, Société Anonyme, Liege, Belgium. Drainage pile. 2,659,208, Nov. 17.

Joy Manufacturing Company, assignee : *See*—
Leven, Samuel.

Judson, Albert L., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Oil burner electric igniter. 2,659,428, Nov. 17.

Jung, Albert H., Flushing, assignor to Victor Industries Corporation, Brooklyn, N. Y. Stopper for container caps. 2,659,510, Nov. 17.

Jurgensen, August P., New York, N. Y., assignor to General Fuse Company, Jersey City, N. J. Cartridge-type electrical fuse and manufacturing same. 2,659,790, Nov. 17.

Jutz, Erich : *See*—
Schlichting, Otto, Jutz, and Rohland.

Kaiser, Harry E., Colton, and W. C. Campbell, San Bernardino, assignors to California Portland Cement Company, Los Angeles, Calif. Humidifying system for dust and fume collection by electrical precipitation. 2,659,449, Nov. 17.

Kaplan, Sam, Sioux City, Iowa. Tubular gate. 2,659,168, Nov. 17.

Kärcher, Alfred, Winnenden, Germany. Apparatus for producing vibrations in liquid baths. 2,659,223, Nov. 17.

Katz, Leon, Cincinnati, Ohio, assignor to Schenley Industries, Inc., New York, N. Y. 2'-(4'-lower alkanoylaminobenzal) - 6 - acetylamino - hydrazinobenzothiazole-2. 2,659,730, Nov. 17.

Katz, Leonhard, Woburn, assignor to Raytheon Manufacturing Company, Newton, Mass. Turbulent flow, restricted passage drier. 2,659,162, Nov. 17.

Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 2,659,227, Nov. 17.

Kaufman, Stephen : *See*—
Rosenkranz, George, Kaufman, and Pataki.

Kaufmann, Frank H., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom harness connector. 2,659,394, Nov. 17.

Kay, John G., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Machine for forming annular sheet metal workpieces. 2,659,407, Nov. 17.

Keil, Henry P., assignor to The Fixture Hardware Corporation, Chicago, Ill. Moistening mechanism for rotary duplicating machines. 2,659,304, Nov. 17.

Keitel, Hellmuth K., Kassel, Germany. Production of magnesium hydroxide. 2,659,661, Nov. 17.

Keith, Dan P., Lubbock, Tex. Straw conveyer for grain combines. 2,659,374, Nov. 17.

Kelco Company, assignee : *See*—
Steiner, Arnold B.

Keller, William M. : *See*—
Steins, Carleton K., and Keller.

Kelsey, Virginia, Delmar, N. Y. Combination beach towel and beach bag. 2,659,404, Nov. 17.

Kennedy, William, & Sons Limited, The, assignee : *See*—
Keon, James J.

Kenyon, Bertrand F., assignor to Mechano Gear Shift Company, Grand Rapids, Mich. Transmission. 2,659,248, Nov. 17.

Keon, James J., assignor to The William Kennedy & Sons Limited, Owen Sound, Ontario, Canada. Feeding mechanism for wood pulp grinders. 2,659,537, Nov. 17.

Kerr, Robert J., Oak Park, assignor to Protective Coatings Corporation, Park Ridge, Ill. Self-spraying artificial snow composition. 2,659,704, Nov. 17.

Kerr, Wayne, Laboratories Limited, The, assignee : *See*—
Calvert, Raymond.

Keuffel & Esser Company, assignee : *See*—
Beeber, Allan R. A.

Keyser, Harold C., assignor to American Steel Foundries, Chicago, Ill. Axle assembly. 2,659,596, Nov. 17.

Kielland, Jacob : *See*—
Berner, Endre Q., and Kielland.

Kincaid, John H., Cleveland Heights, assignor to The Wellman Engineering Company, Cleveland, Ohio. Rotary car dumper. 2,659,500, Nov. 17.

Kindorf, Orlan C., San Francisco, Calif. C clamp. 2,659,561, Nov. 17.

Kipp, Egbert M., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Fabrication of light metals. 2,659,252, Nov. 17.

Kirschstein, Julius : *See*—
Klein, Robert L., Maffei, and Kirschstein.

Kishline, Floyd F., and R. H. Phelps, assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Resilient connection. 2,659,619, Nov. 17.

Kistner, Mitchell : *See*—
Skillman, Claude T., and Kistner.

Klein, Robert L., Rochelle Park, N. J., and C. C. J. Maffei and J. Kirschstein, Brooklyn, N. Y., assignors to Windalume Corporation, West New York, N. J. Window. 2,659,113, Nov. 17.

Klemm, Edwin O., assignor, by mesne assignments, to Saginaw Wire Products, Inc., Saginaw, Mich. Wire bending die unit. 2,659,408, Nov. 17.

Klemm, Edwin O., assignor, by mesne assignments, to Saginaw Wire Products, Inc., Saginaw, Mich. Wire bending machine. 2,659,409, Nov. 17.

Klotz, Günther : *See*—
Stengel, Erwin, and Klotz.

Knapp, Ismond E. : *See*—
Eckhardt, Owen S., Cook, and Knapp.

Knapp-Monarch Co., assignee : *See*—
Lautner, Max E.

Knapp, Seth R., Elk City, Okla. Hydraulically actuated fishing tool for reclaiming broken drill parts, etc., from wells. 2,659,441, Nov. 17.

Knaus, Nicholaus, Cranford, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanisms for sewing machines. 2,659,330, Nov. 17.

Knowles, M. B. : *See*—
Bell, Alan, and Knowles.

Koerber, Ernest F., Chicago, Ill. Supporting frame structure for conveyers. 2,659,476, Nov. 17.

Koller, Lewis R., Schenectady, N. Y., assignor to General Electric Company. Phosphor coating process. 2,659,679, Nov. 17.

König, Walther, Vienna, assignor to Mitterberger Glashuetten Gesellschaft m. b. H., Salzburg, Austria. Furnace and process for electrically melting glass. 2,659,764, Nov. 17.

Kopf, Philip, Brooklyn, N. Y. Bubble blowing gun. 2,659,177, Nov. 17.

Korb, Anton W. : *See*—
Anderson, Lloyd L., Waring, and Korb.

Korb, Anton W., Grandville, Mich., assignor to Jervis Corporation. Magnetic door seal. 2,659,116, Nov. 17.

Kraeplin, Robert C. : *See*—
Mason, James A., and Kraeplin.

Krauawetvogel, Anton, Munchen, and W. Rosin, assignors to E. H. von Lienen, Fahrzeugfabrik, Bochum, Germany. Motor vehicle or trailer for transporting portable cases. 2,659,591, Nov. 17.

Kreidler, Alfred, Stuttgart, Germany. Drawbench. 2,659,480, Nov. 17.

Krejci, Joseph C., Phillips, Tex., assignor to Phillips Petroleum Company. Gas turbine combustion chamber with provision for turbulent mixing of air and fuel. 2,659,201, Nov. 17.

Kressley, Leonard J. : *See*—
Freyed, Ludo K., and Kressley.

Kroll, Harley E. : *See*—
Miller, William F., and Kroll.

Krumpholz, Kenneth, assignee : *See*—
Haley, Allan M.

Krupin, Philip, Orange, N. J. Cash tray. 2,659,486, Nov. 17.

Kucher, Joseph A., Whitney Point, assignor to General Aniline & Film Corporation, New York, N. Y. Coating liquid applicator. 2,659,343, Nov. 17.

Kulhavy, Joseph T. : *See*—
Wells, Frank W., and Kulhavy.

Kump, Ernest J., Jr., San Francisco, Calif. School desk. 2,659,649, Nov. 17.

Kurek, Edwin J., assignor to The Pyle-National Company, Chicago, Ill. Pressure-displacement ventilating apparatus for architectural structures. 2,659,292, Nov. 17.

Kuster, Werner, assignor to J. R. Geigy A. G., Basel, Switzerland. Pyrazolone monoazo dyestuffs. 2,659,720, Nov. 17.

Laemmel, Arthur E., assignor to Polytechnic Institute of Brooklyn, Brooklyn, N. Y. Mode filtered cutoff attenuator. 2,659,870, Nov. 17.

Lafferty, James M., Schenectady, N. Y., assignor to General Electric Company. Boride cathodes. 2,659,685, Nov. 17.

La Lande, William A., Jr., Plymouth Meeting, and I. Mockrin, assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Making inorganic fluorine-containing compounds of aluminum. 2,659,657, Nov. 17.

La Lande, William A., Jr., Plymouth Meeting, and I. Mockrin, assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Producing metal fluorides. 2,659,658, Nov. 17.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Radiation detection device. 2,659,825, Nov. 17.

Landon, Vernon D., Princeton Township, Mercer County, N. J., assignor to Radio Corporation of America. Pulse modulation system. 2,659,866, Nov. 17.

Landry, Jacobus M., Summerland, British Columbia, Canada. Rotating sprinkler. 2,659,626, Nov. 17.

Lang, Adolph, New York, N. Y. Device for detecting blown fuses. 2,659,789, Nov. 17.

Latimer, James T., Birmingham, Ala., assignor to Jackson Industries Inc. Pressure bar support for veneer lathes. 2,659,401, Nov. 17.

Lau, Herbert C., Oak Park, assignor to Signode Steel Strapping Company, Chicago, Ill. Load retaining strip. 2,659,432, Nov. 17.

Lauritsen, Charles C., Pasadena, Calif. Rocket projector with adapter. 2,659,274, Nov. 17.

Lautner, Max E., assignor to Knapp-Monarch Co., St. Louis, Mo. Single bearing motor construction. 2,659,831, Nov. 17.

Lawson, George S., Perry, and J. C. Lawson, Euclid, assignors, by mesne assignments, to The Barr Rubber Products Company, Sandusky, Ohio. Endless conveyor system. 2,659,477, Nov. 17.

Lawson, James C. : *See*—
Lawson, George S. and J. C.

Layland, William, Kings Heath, Birmingham, assignor to The Austin Motor Company Limited, Northfield, Birmingham, England. Combustion chamber of internal-combustion engines. 2,659,355, Nov. 17.

Layne, Mark B., and L. L. Held, Higginsville, Mo. Work holding tool. 2,659,260, Nov. 17.

Lazaroff, Edward : *See*—
Halpin, George F., and Lazaroff.

Lazaroff, Irving, assignee : *See*—
Halpin, George F., and Lazaroff.

Leach Brothers, Inc., assignee : *See*—
Eckhardt, Owen S., Cook, and Knapp.

Leach, Donald D., Cincinnati, Ohio. Fishing line actuator. 2,659,174, Nov. 17.

Leach, Edward S., Portland, Oreg. Toy cannon. 2,659,356, Nov. 17.

Leaderman, Herbert : *See*—
McMillan, Edward B., Leaderman, and Redheffer.

Lear, Incorporated, assignee : *See*—
Carr, William F.

Lee, Alfred R., Schenectady, N. Y., assignor to General Electric Company. Cell diaphragm position indicator. 2,659,151, Nov. 17.

Lee, George H., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Mass spectrometer. 2,659,822, Nov. 17.

Leeds and Northrup Company, assignee : *See*—
Phillips, William E., and Huddleston.

Lees, Gerald M., assignor to Akshun Mfg. Co., Chicago, Ill. Method of and means for forming flake ice. 2,659,212, Nov. 17.

Lehmann, George A., St. Louis, and W. E. Gundelfinger, St. Louis County, Mo. Suction mounting for can openers or the like. 2,659,560, Nov. 17.

Leicht, Albert G., Cincinnati, Ohio. Making dentures. 2,659,106, Nov. 17.

Lemaigre-Voreaux, Pierre, assignor to Societe Anonyme pour les Applications de l'Electricite et des Gas Rares-Etablissements Claude-Paz et Silva, Paris, France. Electric discharge device. 2,659,834, Nov. 17.

Leontis, Thomas E., and R. S. Busk, assignors to The Dow Chemical Company, Midland, Mich. Composite alloy. 2,659,129, Nov. 17.

Leontis, Thomas E., and R. S. Busk, assignors to The Dow Chemical Company, Midland, Mich. Composite alloy. 2,659,130, Nov. 17.

Leontis, Thomas E., and R. S. Busk, assignors to The Dow Chemical Company, Midland, Mich. Composite alloy. 2,659,131, Nov. 17.

Leontis, Thomas E., and R. S. Busk, assignors to The Dow Chemical Company, Midland, Mich. Composite alloy. 2,659,132, Nov. 17.

Leontis, Thomas E., and R. S. Busk, assignors to The Dow Chemical Company, Midland, Mich. Composite alloy. 2,659,133, Nov. 17.

Leontis, Thomas E., and R. S. Busk, assignors to The Dow Chemical Company, Midland, Mich. Composite alloy. 2,659,134, Nov. 17.

Leontis, Thomas E., and R. S. Busk, assignors to The Dow Chemical Company, Midland, Mich. Composite alloy. 2,659,135, Nov. 17.

Leontis, Thomas E., and R. S. Busk, assignors to The Dow Chemical Company, Midland, Mich. Composite alloy. 2,659,136, Nov. 17.

Leontis, Thomas E., and R. S. Busk, assignors to The Dow Chemical Company, Midland, Mich. Composite alloy. 2,659,137, Nov. 17.

Le Tourneau, George J., Central Falls, R. I. Baseball bat grip. 2,659,605, Nov. 17.

Leuch, Werner P., assignor to Hall Harding Limited, London, England. Diazotype photoprinting materials. 2,659,672, Nov. 17.

Leven, Samuel, Michigan City, Ind., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Side board-equipped disintegrating mechanism. 2,659,586, Nov. 17.

Lever Motors Corporation, assignee : *See*—
Chronic, Clarence C., and Shaffer.

Lewis, Floyd L., assignee : *See*—
Gledhill, Alvin F., and Lewis.

Lewis, L. R., Co., assignee : *See*—
Gledhill, Alvin F., and Lewis.

Lewis, Leon R. : *See*—
Gledhill, Alvin F., and Lewis.

Lewis, Mack O., Detroit, Mich. Therapeutic apparatus. 2,659,365, Nov. 17.

Lewyt Corporation, assignee : *See*—
Meyerhoefer, Carl E.

Libbey-Owens-Ford Glass Company, assignee : *See*—
Watkins, George B.

Liebenow, Julius G., Berwyn, Ill. Paper cup handle. 2,659,527, Nov. 17.

Lien, Arthur P., Highland, Ind., and D. A. McCaulay, assignors to Standard Oil Company, Chicago, Ill. Isodurene manufacture. 2,659,762, Nov. 17.

Lincoln, Edward L., Franklin, assignor to Bird & Son, Inc., East Walpole, Mass. Flexible shingle. 2,659,321, Nov. 17.

Lincoln Engineering Company, assignee : *See*—
Rotter, Lutwin C., and Reisert.

Lindman, Erick L., Washington, D. C. Connector and support for tables. 2,659,640, Nov. 17.

Linney, Douglas M., Farmington, N. Mex., assignor to Bowen Co. of Texas, Inc., Houston, Tex. Combination jar and equalizer. 2,659,576, Nov. 17.

Lion Oil Company, assignee : *See*—
Franz, Raymond A.

Lionel Corporation, The, assignee : *See*—
Bonanno, Joseph L., and Beger.

Lipman, Michael G., Vineland, N. J. Pellet implanter. 2,659,389, Nov. 17.

Lippincott, Samuel B., Springfield, F. N. Baumgartner, Plainfield, and H. L. Yowell, Westfield, N. J., assignors to Standard Oil Development Company. Lubricating oil compositions containing alkyl diphenylalkane monosulfonates. 2,659,694, Nov. 17.

Little, John M., and C. G. Blank, assignors to Toledo Scale Company, Toledo, Ohio. Weighing scale housing. 2,659,590, Nov. 17.

Locke, Louis P., Victor, N. Y. Apparatus for forming and assembling electrical terminals. 2,659,406, Nov. 17.

Lockheed Aircraft Corporation, assignee : *See*—
George, Melvin F., Jr., and Reedy.
McClain, Thomas H.
Price, Nathan C.

Loois, Hendrikus J. : *See*—
Mazee, Willem M., and Loois.

Loose Leaf Metals Co., assignee : *See*—
Schroer, Walter E.

Lorentzen, Hans K., Montclair, N. J., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Bottom bar organization for Venetian blinds. 2,659,430, Nov. 17.

Lorentzen Hardware Mf'g. Corp., assignee : *See*—
Lorentzen, Hans K.
Nelson, Harry.

Lorimer, Allan G. : *See*—
Burn, Philip H., Graham, and Lorimer.

Lott, William A., Maplewood, N. J., assignor, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md. Alkylene-bridged 5,6-dihydroxy-quinolines. 2,659,729, Nov. 17.

Lotter, Georg, Neustadt-Aisch, Germany, assignor of one-half to E. M. Riebe, New York, N. Y. Drawing instrument. 2,659,155, Nov. 17.

Lovell Manufacturing Company, assignee : *See*—
Kauffman, Walter L., II.

Lovens Kemiske Fabrik ved A. Kongsted, assignee : *See*—
Tobiassen, Ole H.

Lowe, Theodore M., Detroit, Mich, assignor to Bendix Aviation Corporation, South Bend, Ind. Fluid pressure responsive feed control valve. 2,659,384, Nov. 17.

Lubahn, Jack D., Schenectady, N. Y., assignor to General Electric Company. Apparatus for making stress-strain tests. 2,659,232, Nov. 17.

Lucas, Jack H., Stockton, Calif. Asphalt compacting machine. 2,659,281, Nov. 17.

Lucas, Joseph, Limited, assignee : *See*—
Ifield, Richard J.
Prickett, Alfred D.

Ludgewait, Arthur E., Naugatuck, Conn. Button remover. 2,659,141, Nov. 17.

Luvisi, George W., assignor to National Aluminate Corporation, Chicago, Ill. Carbocyclic monocarboxylic acid salts of glyoxalidines. 2,659,731, Nov. 17.

Lynch Corporation, assignee : *See*—
Taggart, Robert E.

Lyon, George A., Detroit, Mich. Brake drum air cooling device. 2,659,459, Nov. 17.

Lyon, George A., Detroit, Mich. Brake drum air cooling device. 2,659,460, Nov. 17.

Lyon, William B., Grand Rapids, Mich. Conveying mechanism. 2,659,647, Nov. 17.

Lytle, Melba L., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Preventing corrosion of ferrous metals. 2,659,693, Nov. 17.

MacDonald, Duncan N., Arcadia, Calif., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Graphic recorder. 2,659,650, Nov. 17.

MacLea, Robert K., Jr., Greenwich, Conn., I. A. Greenwood, Jr., Pleasantville, N. Y., and H. Zieboiz, Chicago, Ill., assignors to General Precision Laboratory Incorporated. Pressure responsive device. 2,659,390, Nov. 17.

Macomic, Chester A., Chicago, Ill. Character selecting mechanism. 2,659,299, Nov. 17.

Maffei, Carmine C. J. : *See*—
Klein, Robert L., Maffei, and Kirschstein.

Magat, Eugene E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparing linear polyamides. 2,659,713, Nov. 17.

Magic Seal, Inc., assignee : *See*—
Rand, Henry J.

Magnus, Finn H., Essex Fells, and E. J. Ens, assignors to Magnus Harmonica Corporation, Newark, N. J. Portable musical instrument. 2,659,261, Nov. 17.

Magnus Harmonica Corporation, assignee : *See*—
Magnus, Finn H., and Ens.

Mahle, Ernst, Baden Stuttgart, Wurttemberg, Germany. Piston ring. 2,659,638, Nov. 17.

Mairs, William J., Waltham, assignor to Technology Instrument Corporation, Acton, Mass. Continuously variable resistor. 2,659,794, Nov. 17.

Mallory, Marion, Detroit, Mich. Ignition timing control means for internal-combustion engines. 2,659,353, Nov. 17.

Malmros, Gustav V. A. : *See*—
Gibbon, John H., Jr., Malmros, Engstrom, and Barber.

Mansfield Sanitary Pottery, Inc., assignee : *See*—
Smith, Harry F.

Mansson, Martin S., Long Island City, N. Y. Tape cutting machine. 2,659,435, Nov. 17.

Marble, Jarvis C., trustee, assignee : *See*—
Nilsson, Hans R., and Trulsson.

Marconi's Wireless Telegraph Company Limited, assignee : *See*—
Clough, Newsome H.

Marsden, George B., Cicero, Ill., assignor to Chicago Nipple Manufacturing Company. Differential cylinder with toggle lock. 2,659,207, Nov. 17.

Martin, Leo P., Decatur, Ill. Sort vertifier for punched cards. 2,659,265, Nov. 17.

Martin, Robert W., Lenox, Mass., assignor to General Electric Company. Phenol alcohol-epichlorohydrin reaction products. 2,659,710, Nov. 17.

Martin, W. H., assignee : *See*—
Wahle, Adolph.

Martin, Wilbert A., Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Snap acting mechanism. 2,659,238, Nov. 17.

Marvin, Hervey G., Molalla, Oreg. Kerf planing saw. 2,659,398, Nov. 17.

Maschinenbau- & Giesserei A. G. : *See*—
Stenglein, Oswald.

Mason, James A., Worcester, Mass., and R. C. Kraeplin, Beloit, Wis., assignors to Warner Electric Brake & Clutch Company, South Beloit, Ill. Combined motor and clutch. 2,659,830, Nov. 17.

Massopust, Carl F., Ogden Dunes, Ind., assignor to J. B. Tigrett, Chicago, Ill. Making power units for amusement devices. 2,659,215, Nov. 17.

Mathias, Berton M., Monte Vista, Colo. Land leveling machine. 2,659,166, Nov. 17.

Mathieson Chemical Corporation, assignee : *See*—
Lott, William A.
Soule, Edward C.

Mathwich, Howard R., Haddonfield, N. J., assignor to Radio Corporation of America. Frequency modulated oscillator. 2,659,867, Nov. 17.

Matthews, Russell B., Wauwatosa assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Burner control system. 2,659,844, Nov. 17.

Matthysse, Irving F. : *See*—
Dupre, Henry P., and Matthysse.

Maximoff, Boris S., Chicago, Ill., assignor to the United States of America as represented by the Secretary of the United States Air Force. Lead screw support for straight line computers. 2,659,634, Nov. 17.

Maxson, W. L., Corporation, The, assignee : *See*—
McLaren, Peter J.

Mayes, Albert H., Endicott, N. Y. Radiant heating system. 2,659,803, Nov. 17.

Mayland, Bertrand J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Gasifying coals. 2,659,668, Nov. 17.

Mazee, Willem M., and H. J. Loois, Amsterdam, Netherlands, assignors to Shell Development Company, Emeryville, Calif. Preparing high-glaze waxed paper. 2,659,683, Nov. 17.

McBee Company, The, assignee : *See*—
Dutro, Lyle V., and Nameth.

McCallum, Robert A., Clarendon Hills, assignor to Goodman Manufacturing Company, Chicago, Ill. Power drive connection for combined rotatable and oscillatable mining tools. 2,659,585, Nov. 17.

McCarthy, Timothy F., Indiana, Pa. Automatic car loading station. 2,659,498, Nov. 17.

McCaulay, David A. : *See*—
Lien, Arthur P., and McCaulay.

McClain, Thomas H., Altadena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Dual hydraulic swivel joint. 2,659,615, Nov. 17.

McClure, William L., Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa. System for elevating contact material. 2,659,633, Nov. 17.

McConnell, John A., Newark, assignor of thirty percent to M. L. Avila, Niles, Calif. Shower head. 2,659,627, Nov. 17.

McCune, William J., Jr. : *See*—
Rogers, Howard G., and McCune.

McDonnell Aircraft Corporation, assignee : *See*—
Bolanovich, Mirko.

McElwee, Joseph A., assignor to The Ohio Boxboard Company, Rittman, Ohio. Handled carton. 2,659,524, Nov. 17.

McGowen, Neil E., Auburn, Ala. Extra point and field goal kicking tee. 2,659,604, Nov. 17.

McGrath, Edward F., Kansas City, Mo. Garment. 2,659,086, Nov. 17.

McGraw Electric Company, assignee : *See*—
Ireland, Murray.
Olving, Bror G.
Zander, Waldo H.

McHargue, William L., Fairfax, assignor to West Point Manufacturing Company, Shawmut, Ala. Automatically threading loom shuttle. 2,659,395, Nov. 17.

McLagan, Russell G., Millford, Ohio, assignor to The American Laundry Machinery Company. Proportional sequence control for folders. 2,659,598, Nov. 17.
McLaren, Peter J., deceased, New York, N. Y., by The Hanover Bank, formerly Central Hanover Bank and Trust Company, corporate executor, and H. E. Hansen, coexecutor, assignors to The W. L. Maxson Corporation, New York, N. Y. Speed change transmission. 2,659,245, Nov. 17.
McMillan, Edward B., Marblehead, Mass., H. Leaderman, Arlington, Va., and R. M. Redheffer, Boston, Mass., said Leaderman and said Redheffer assignors to said McMillan. Dielectric wall for transmission of centimetric radiation. 2,659,884, Nov. 17.
McNicol, Forrest C., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electrical control apparatus. 2,659,843, Nov. 17.
McQuay-Norris Manufacturing Company, assignee: *See*—
Persons, Lawrence M.
Mead, Arthur T., and R. E., Wood River, Nebr. Tool sharpening machine. 2,659,184, Nov. 17.
Mead, Ronald E.: *See*—
Mead, Arthur T., and R. E.
Mechano Gear Shift Company, assignee: *See*—
Kenyon, Bertrand F.
Meeker, Willard F., and F. H. Slaymaker, Rochester, N. Y., assignors to Stromberg-Carlson Company. Ranging system. 2,659,878, Nov. 17.
Meeussen, Louis: *See*—
von Fraunhofer, Hans, Verkinderen, and Meeussen.
Meier, William A., Rochester, Pa. Compotier. 2,659,222, Nov. 17.
Melia, Earl P., Pueblo, Colo. Electric lamp shade. 2,659,809, Nov. 17.
Mencfeldowski, Edward A., Jr., Milwaukee, Wis. Strainer and cleaner for paint rollers. 2,659,096, Nov. 17.
Mercier, Pierre, assignor to Societe d'Etudes et de Constructions Aero-Navales, Gennevilliers, France. High-power wheel brake, especially for aircraft. 2,659,458, Nov. 17.
Merck & Co., Inc., assignee: *See*—
Folkers, Karl.
Mergenthaler Linotype Company, assignee: *See*—
Hilpman, Paul.
Plastaras, James C.
Merrill, Leslie M., trustee, assignee: *See*—
Nilsson, Hans R., and Trulsson.
Merritt, Ernest R., assignor to Eastman Kodak Company, Rochester, N. Y. Knee action dope hopper finger. 2,659,103, Nov. 17.
Mertes, Edward A., assignee: *See*—
Boyle, John R.
Metallizing Engineering Co. Inc., assignee: *See*—
Wilson, Charles K.
Metzger, Henry, Mercedes, Tex. Draft equalizer for tractor implement hitches. 2,659,286, Nov. 17.
Meyer, Albert W.: *See*—
Fisk, Charles F., and Meyer.
Meyerhoefer, Carl E., assignor to Lewyt Corporation, Brooklyn, N. Y. Vacuum cleaner nozzle having pivoted cleaning element 2,659,098, Nov. 17.
Mickey, William E., assignee: *See*—
Trautmann, Herbert L.
Mikeska, Louis A., Westfield, N. J., assignor to Standard Oil Development Company. Corrosion preventing agent. 2,659,705, Nov. 17.
Miller, Edward [illegible], assignor to The Fellows Gear Shaper Company, Springfield, Vt. Machine for cutting or finishing gear teeth and analogous formations. 2,659,277, Nov. 17.
Miller, Frank A., assignor to Hi-Loy Company, Inc., Buffalo, N. Y. Composition and method for the production of alloys. 2,659,669, Nov. 17.
Miller, Julius, New York, N. Y. Container. 2,659,515, Nov. 17.
Miller, William F., and H. E. Kroll, assignors to Toro Manufacturing Corporation, Minneapolis, Minn. Combined grass mower and leaf mulcher. 2,659,191, Nov. 17.
Mills, John: *See*—
Clifford, Thomas W., and Mills.
Milwaukee Gas Specialty Company, assignee: *See*—
Matthews, Russell B.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Harrison, Thomas R.
Martin, Wilbert A.
Mouzon, James C.
Smith, James W.
Mistler, Eldon C., assignee: *See*—
Parry, Robert D.
Mitnick, Albert M.: *See*—
Fogal, Gordon L., and Mitnick.
Mockrin, Isadore: *See*—
La Lande, William A., Jr., and Mockrin.
Moloney, Raymond T., assignee: *See*—
Henry, Earle G.
Monowatt, Inc., assignee: *See*—
Sheldon, Luther M.
Monroe Calculating Machine Company, assignee: *See*—
Quinby, Edwin J., and Oliwa.
Monsanto Chemical Company, assignee: *See*—
Harman, Marion W.
Park, Harold F.
Zerbe, Richard O.
Montanari, Vittorio: *See*—
Mosso, Angelo, and Montanari.
Moore, Minerva B. T., Kansas City, Mo. Floor covering. 2,659,687, Nov. 17.
Morgan, Chester S. Jr., Corpus Christi, Tex., and N. C. Robertson, Cambridge, Mass., assignors to Celanese Corporation of America, New York, N. Y. Oxidation process. 2,659,746, Nov. 17.
Morgester, Ridgway P., Ridgway, Pa. Fly tier's bobbin. 2,659,548, Nov. 17.
Morin, Louis H., assignor, by mesne assignments, to M. Drexler, New York, N. Y. Ash tray with spinning closure. 2,659,513, Nov. 17.
Morlock, William J.: *See*—
Rich, Theodore A., and Morlock.
Morphy, Donal W., Chislehurst, and W. M. Russell, Bromley, assignors to Morphy-Richards Limited, St. Mary Cray, England. Electric toaster. 2,659,297, Nov. 17.
Morphy-Richards Limited, assignee: *See*—
Morphy, Donal W., and Russell.
Morrison, Montford, Upper Montclair, N. J. Electric impulse motor device. 2,659,853, Nov. 17.
Morse Chain Company, assignee: *See*—
Cherry, Ralph E.
Riopelle, Earl F.
Morton, Robert B., assignor to Stewart-Warner Corporation, Chicago, Ill. Windshield wiper. 2,659,097, Nov. 17.
Mosso, Angelo, and Vittorio Montanari, assignors to Fiat S. p. A., Turin, Italy. Resilient joint for transmission shafts of motor vehicles. 2,659,219, Nov. 17.
Mousset, André, La Chaux-de-Fonds, Switzerland. Lubricating device for the loopers of sewing machines. 2,659,331, Nov. 17.
Mouzon, James C., Chevy Chase, Md., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Measuring apparatus. 2,659,848, Nov. 17.
Mueller, Emil G., Churchill, assignor to The American Brake Company, Swissvale, Pa. Brake mechanism. 2,659,456, Nov. 17.
Müller, Heinrich, Nurnberg, Germany. Toy vehicle. 2,659,179, Nov. 17.
Muller, Julius F.: *See*—
Howard, Hartley W., and Muller.
Murdock, Lawrence C., Liverpool, N. Y., assignor to General Electric Company. Sweep linearity control circuit. 2,659,837, Nov. 17.
Murphy, Norman B., West Englewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Automatic steering system. 2,659,554, Nov. 17.
Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 11-keto-17 alpha-progesterone. 2,659,741, Nov. 17.
Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 11 alpha, 17 alpha, 21-trihydroxypregnane-3,20-dione. 2,659,743, Nov. 17.
Murray, Ian, Vancouver, British Columbia, Canada. Firearm cocking mechanism. 2,659,276, Nov. 17.
Myrick, George H., Rochester, Minn. Apparatus for breaking frangible suture tubes. 2,659,253, Nov. 17.
Nabenhauer, Fred P.: *See*—
Craig, Paul N., and Nabenhauer.
Nameth, James F.: *See*—
Dutro, Lyle V., and Nameth.
Nash-Kelvinator Corporation, assignee: *See*—
Kishline, Floyd F., and Phelps.
National Airoil Burner Company, Incorporated, assignee: *See*—
Ferguson, William.
National Aluminate Corporation, assignee: *See*—
Luvisi, George W.
National Brass Company, assignee: *See*—
Ter Meer, Herman.
National Cash Register Company, The, assignee: *See*—
Goodbar, Mayo A., Placke, and Falkner.
National Iron Company, assignee: *See*—
Ericson, Lewis C.
Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Fogal, Gordon L., and Mitnick.
Neff, Loren L., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricating oil containing a metal salt of a condensation product of an alkyl substituted phenol and an olefin oxide. 2,659,696, Nov. 17.
Nelsh, Richard A., Library, Pa., assignor to United States Steel Corporation. Soldering flux composition. 2,659,684, Nov. 17.
Nelson, Harry, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Slat tilting mechanism for Venetian blinds. 2,659,431, Nov. 17.
New Britain Machine Company, The, assignee: *See*—
Jobert, Arthur H.
Newcomb, Walter C.: *See*—
Tuttle, Fordyce E., and Newcomb.
Nicolls, Wilfrid E. W., Pinner, assignor to C. A. V. Limited, London, England. Governor for liquid fuel injection pumps. 2,659,354, Nov. 17.

Nilsson, Hans R., Stockholm, and S. I. Trulsson, Enskede, Sweden, assignors, by mesne assignments, to J. C. Marble, New York, N. Y., L. M. Merrill, Westfield, N. J., and P. H. Batten, Racine, Wis., trustees. Independent synchronization. 2,659,239, Nov. 17.
Ninneman, Eric O., G. L. Webster, J. Hohl, and O. Bjering, Toledo, Ohio, assignors to Owens-Illinois Glass Company. Cap feeding mechanism. 2,659,522, Nov. 17.
Nobereit, Albert, Brooklyn, N. Y. Curtain hanger with curtain rod attachment. 2,659,492, Nov. 17.
Norelius, Emil F., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tandem drive mechanism. 2,659,246, Nov. 17.
Northrop Aircraft, Inc., assignee: *See*—
Schwartz, Albert M., and Willoughby.
Norton Company, assignee: *See*—
Hill, Oiva E.
Indge, Herbert S.
Wood, Wallace H.
No-Sag Spring Company, assignee: *See*—
Handren, Arthur V., Jr.
Notarbartolo, Pietro, and C. Poledrelli, Rome, Italy. Marine excavator. 2,659,211, Nov. 17.
Nowak, Karl, Vienna, Austria. Selective receiving and amplifying circuit. 2,659,776, Nov. 17.
Null, Fay E., Dayton, Ohio. Augmented thrust pulse jet pump or motor and creating augmented thrust or suction. 2,659,202, Nov. 17.
Nygaard, Torstein A., San Pedro, Calif. Container cap. 2,659,508, Nov. 17.
Oberholtz, Lester E., and G. Allen, assignors to Gleaner Harvester Corporation, Independence, Mo. Steering gear. 2,659,613, Nov. 17.
Ochtman, Leonard, Ridgewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Irreversible drive mechanism. 2,659,466, Nov. 17.
O'Hara, Janvier F., Monrovia, Calif. Telephone adapter for hearing aids. 2,659,772, Nov. 17.
Ohio Boxboard Company, The, assignee: *See*—
McElwee, Joseph A.
Oliwa, Walter S.: *See*—
Quinby, Edwin J., and Oliwa.
Olson, Charles S.: *See*—
Erickson, Reinhold W., and Olson.
Olving, Bror G., assignor to McGraw Electric Company, Elgin, Ill. Construction for electric heaters. 2,659,798, Nov. 17.
Orloff, George: *See*—
Conway, Hugh G., Orloff, and Fairclough.
Osmun, Dean W., Houston, Tex. Inside pipe cutter. 2,659,434, Nov. 17.
Osmun, Dean W., Houston, Tex. Casing repair tool. 2,659,440, Nov. 17.
Osplack, Joseph J., assignor to Vinco Corporation, Detroit, Mich. Method and apparatus for dressing helical grinding wheels. 2,659,357, Nov. 17.
Otken, Edwin J., New Brunswick, N. J., assignor to Good Humor Corporation, Brooklyn, N. Y. Confection feeding and releasing machine. 2,659,503, Nov. 17.
Ott, Thomas W., St. Paul, Minn. Vacuum cleaner head with handle controlled valve. 2,659,099, Nov. 17.
Ottawa Steel Products, Inc., assignee: *See*—
Dorkins, Evan E.
Överby, Sune L.: *See*—
Ericsson, Eric A., Jörgensen, and Överby.
Owens, Freeman H., New York, N. Y. Record tape magazine. 2,659,653, Nov. 17.
Owens-Illinois Glass Company, assignee: *See*—
Ninneman, Eric O., Webster, Hohl, and Bjering.
Pacheco, William J., assignee: *See*—
Feerick, Jay.
Paige, Richard E., and M. Rafaat, New York, N. Y.; said Rafaat assignor to said Paige. Combination shipping carton and floor stand. 2,659,483, Nov. 17.
Palmer, Joseph J., Arcadia, Calif. Spanner type strainer wrench. 2,659,256, Nov. 17.
Paparazzo, Louis, Waterbury, and A. A. Bernartz, West Cheshire, Conn.; said Paparazzo assignor to said Bernartz. Automatic poultry feed dispenser. 2,659,346, Nov. 17.
Pappenfus, Ernest W., assignor to Collins Radio Company, Cedar Rapids, Iowa. Recognizer circuit. 2,659,879, Nov. 17.
Park, Harold F., East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Vinyl halide polymerization with adipoyl peroxide and hexamethylene diamine. 2,659,716, Nov. 17.
Park, Harold F., East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. High-temperature polymerization of styrene. 2,659,717, Nov. 17.
Parry, Robert D., Cincinnati, Ohio, assignor, by mesne assignments, to K. J. Eckstein and E. C. Mistler. Firing mechanism for pistols. 2,659,172, Nov. 17.
Parsons and Marine Engineering Turbine Research and Development Association, The, assignee: *See*—
Peregrine, Edgar P.
Parsons, William F., and E. C. Poling, assignors to Eastman Kodak Company, Rochester, N. Y. Reticles. 2,659,665, Nov. 17.
Pataki, John: *See*—
Rosenkranz, George, Kaufman, and Pataki.
Peelle Company, The, assignee: *See*—
Doeg, Paul R., and Croker.
Pelaez, Manuel E., Burzaco, Argentina. Hoisting derrick adaptable to the frames of transportation vehicles. 2,659,501, Nov. 17.
Pellerin, Bruno, Shawinigan Falls, Quebec, Canada. Washing machine impeller having nonradial vanes. 2,659,226, Nov. 17.
Pennsylvania Railroad Company, The, assignee: *See*—
Steins, Carleton K., and Keller.
Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
La Lande, William A., Jr., and Mockrin.
Plump, Ralph E.
Peple, Gustave A., Jr., deceased, Richmond, Va.; Bank of Commerce and Trust, executor. Combustion control system. 2,659,324, Nov. 17.
Peregrine, Edgar P., Tynemouth, assignor to The Parsons and Marine Engineering Turbine Research and Development Association, Wallsend, England. Torque transmitting device. 2,659,221, Nov. 17.
Perfex Corporation, assignee: *See*—
Horchkiss, Clifford, and Deubel.
Perry, Winthrop L., and E. J. Abbott, deceased (by S. L. Abbott, executor), assignors, by mesne assignments, to Abbott Worsted Mills, Incorporated, Wilton, N. H. Winding machine. 2,659,538, Nov. 17.
Persons, Elisabeth B., administratrix: *See*—
Persons, Lawrence M.
Persons, Lawrence M., deceased, by E. B. Persons, administratrix, St. Louis County, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Reversing and speed control for truck motors. 2,659,851 Nov. 17.
Persson, Eric S., Malmo, Sweden. Framing of metal profiles particularly for movable and glazed windows and doors. 2,659,463, Nov. 17.
Peter, Albin, and E. Wydler, Basel, Switzerland. Dyestuff intermediates of the anthraquinone series. 2,659,737, Nov. 17.
Petersen, Christian C., Brooklyn, N. Y.; G. Petersen, administratrix, assignor to G. Petersen. Guard for saws. 2,659,400, Nov. 17.
Petersen, Grace, administratrix, assignee: *See*—
Petersen, Christian C.
Peterson, Adolphe C., Edina, Minn. Convertible rotary wing aircraft. 2,659,550, Nov. 17.
Peterson, Durey H.: *See*—
Murray, Herbert C., and Peterson.
Peterson, Edwin F., Kewanee, Ill. Wear resisting insert for core making apparatus. 2,659,119, Nov. 17.
Phelps, Rex V., assignor to Warren Petroleum Corporation, Tulsa, Okla. Underground liquid storage facility and selecting and preparing the same. 2,659,209, Nov. 17.
Phelps, Ross H.: *See*—
Kishline, Floyd F., and Phelps.
Philco Corporation, assignee: *See*—
Hart, Edward L.
Phillips, Harold P.: *See*—
Anderson, Hugo, and Phillips.
Phillips Petroleum Company, assignee: *See*—
Krejci, Joseph C.
Mayland, Bertrand J.
Robinson, Sam P.
Schulze, Walter A.
Phillips, William E., Drexel Hill, and R. H. Huddleston, Jr., Hatboro, assignors to Leeds and Northrup Company, Philadelphia, Pa. Motor control system and the like. 2,659,850, Nov. 17.
Pierce, John B., Foundation, assignee: *See*—
Cataldo, John B.
Placke, Everett H.: *See*—
Goodbar, Mayo A., Placke, and Falkner.
Plastaras, James C., Lynbrook, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. 2,659,479, Nov. 17.
Plump, Ralph E., Pittsfield, Mass., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Preparation of mixed aromatic-aliphatic ethers. 2,659,753, Nov. 17.
Polansek, Thomas, assignee: *See*—
Davison, Edward D.
Polaroid Corporation, assignee: *See*—
Land, Edwin H.
Rogers, Howard G., and McCune.
Poledrelli, Carlo: *See*—
Notarbartolo, Pietro, and Poledrelli.
Polier, Frederick F., Sr., Moberly via Golden, British Columbia, Canada. Crosscut saw-set. 2,659,250, Nov. 17.
Poling, Ezra C.: *See*—
Parsons, William F., and Poling.
Polytechnic Institute of Brooklyn, assignee: *See*—
Laemmel, Arthur E.
Pontiac Engraving & Electrotype Co., assignee: *See*—
Schultz, Roy M.
Post, Robert, San Andreas, Calif. Steady-rest centering gauge. 2,659,156, Nov. 17.

Potier, Gaston X. N., Versailles, France. Multiplex pulse transmission system. 2,659,768, Nov. 17.

Poujade, Jules C. J.: *See*—
Garnier, Michel R., and Poujade.

Powers-Samas Accounting Machines Limited, assignee: *See*—
Excell, Arthur W.

Price, Nathan C., St. Helena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Gas turbine compressor system. 2,659,528, Nov. 17.

Price, Nathan C., Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Cooling means for the rotors of gas turbine power plants. 2,659,529, Nov. 17.

Prickett, Alfred D., Handsworth, Birmingham, assignor to Joseph Lucas Limited, Birmingham, England. Thermally controlled electric switch. 2,659,787, Nov. 17.

Printing Equipment Corporation, assignee: *See*—
Ferguson, John L., Jr.

Protective Coatings Corporation, assignee: *See*—
Kerr, Robert J.

Purdue Research Foundation, assignee: *See*—
Hass, Henry B., and Feuer.

Pursche, Harry A., Gardena, Calif. Two-way plow. 2,659,284, Nov. 17.

Pyle-National Company, The, assignee: *See*—
Kurek, Edwin J.

Qualitex-Société Dunod & Cie, assignee: *See*—
Dunod, Jean.

Quinby, Edwin J., New York, N. Y., and W. S. Oliwa, assignors to Monroe Calculating Machine Company, Orange, N. J. Touch-responsive keyboard. 2,659,533, Nov. 17.

Quiquerez, Joseph: *See*—
Gislon, André, and Quiquerez.

Quirk, Robert W., assignor to Ditto, Incorporated, Chicago, Ill. Pump actuating means for rotary duplicating machines. 2,659,303, Nov. 17.

Rader, Arlie B., Lititz, Pa. Article transfer for carton taping machines. 2,659,474, Nov. 17.

Radio Corporation of America, assignee: *See*—
Landon, Vernon D.
Mathwich, Howard R.

Rafaat, Mansoor: *See*—
Paige, Richard E., and Rafaat.

Ralston, Eldon K., Cleveland Heights, Ohio. Laundry hanger. 2,659,493, Nov. 17.

Ralston Purina Company, assignee: *See*—
Eaves, Ausie C.
Wear, John M., Jr.

Rand, Henry J., assignor to Magic Seal, Inc., Bratenahl, Ohio. Valve with turbulent flow. 2,659,388, Nov. 17.

Rand, Henry J., assignor to Magic Seal, Inc., Bratenahl, Ohio. Integral valve and stem with reinforcing flange. 2,659,566, Nov. 17.

Rand, Henry J., assignor to Magic Seal, Inc., Bratenahl, Ohio. Valve with yieldable face. 2,659,567, Nov. 17.

Rarick, Morgan J., Madison, Tenn., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Spinning viscose rayon. 2,659,102, Nov. 17.

Ratcliffe, Temple W.: *See*—
Harter, Isaac, Jr., and Ratcliffe.

Ray-O-Vac Company, assignee: *See*—
Wengel, Arthur M.

Raytheon Manufacturing Company, assignee: *See*—
Gannaway, Robertson R.
Katz, Leonhard.
Torrey, Bradford M.

Records, Paul, Elwood, Ind. Table. 2,659,642, Nov. 17.

Rector, L. L., assignee: *See*—
Schnitter, Sylvester B.

Redheffer, Raymond M.: *See*—
McMillan, Edward B., Leaderman, and Redheffer.

Reedy, Perry M., Jr.: *See*—
George, Melvin F., Jr., and Reedy.

Reinhardt, Carl H., Jr., Milwaukee, Wis. Paste type products container and dispenser therefor having a cutter-valve for opening the container. 2,659,517, Nov. 17.

Reisert, August D.: *See*—
Rotter, Lutwin C., and Reisert.

Reitzes, Herbert L., assignor to Globe Products Heat Seal Corporation, Los Angeles, Calif. Sealing machine with automatic labeling. 2,659,520, Nov. 17.

Rendel, George H., Pittsburgh, Pa., assignor to United States Steel Corporation. Apparatus for measuring strip thickness. 2,659,154, Nov. 17.

Reynolds, Charles K.: *See*—
Humphreys, Robert L., Brock, and Reynolds.

Rice, Walter A., Amsterdam, N. Y. Bottle cap. 2,659,511, Nov. 17.

Rich, Theodore A., Schenectady, N. Y., assignor to General Electric Company. Snap action electrometer. 2,659,865, Nov. 17.

Rich, Theodore A., Schenectady, and W. J. Morlock, Syracuse, N. Y., assignors to General Electric Company. Electrostatic induction voltage measuring device. 2,659,864, Nov. 17.

Richardson Company of Oregon, Ltd., The, assignee: *See*—
Richardson, Ward K.

Richardson, Ward K., Falls City, Oreg., assignor to The Richardson Company of Oregon, Ltd. Counterbalance pump. 2,659,315, Nov. 17.

Riebe, Erwin M., assignee: *See*—
Lotter, Georg.

Riopelle, Earl F., Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y. Flexible coupling. 2,659,218, Nov. 17.

Ripley, Stanley W., Gravesend, assignor to British Insulated Callender's Cables Limited, London, England. Stranding machine. 2,659,192, Nov. 17.

Robbins, Carl G., Des Plaines, Ill. Packing brace. 2,659,648, Nov. 17.

Robertson, Nat C.: *See*—
Morgan, Chester S., Jr., and Robertson.

Robinson, Preston, Williamstown, assignor to Sprague Electric Company, North Adams, Mass. Tuning assembly. 2,659,820, Nov. 17.

Robinson, Richard A.: *See*—
Cusic, John W., and Robinson.

Robinson, Sam P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Separation of acetylene from gaseous mixtures by glycolonitrile. 2,659,453, Nov. 17.

Robson, Robert, Bexley Heath, assignor to The General Electric Company, Limited, London, England. Rotary tippler for railway wagons. 2,659,499, Nov. 17.

Rockford Wire Stripper Co., assignee: *See*—
Wood, Stuart G.

Rogers, Howard G., Weston, and W. J. McCune, Jr., assignors to Polaroid Corporation, Cambridge, Mass. Photographic product containing a strippable mask. 2,659,673, Nov. 17.

Rohland, Werner: *See*—
Schlichting, Otto, Jutz, and Rohland.

Roller Bearing Company of America, assignee: *See*—
Barr, Victor L.

Rolls-Royce Limited, assignee: *See*—
Rubbra, Arthur A., and Haworth.

Rosenkranz, George, S. Kaufman, and J. Pataki, assignors to Syntex S. A., Mexico City, Mexico. $\Delta^{5,7}$-allopregnenes and process. 2,659,742, Nov. 17.

Rosin, Wilhelm: *See*—
Kranawetvogel, Anton, and Rosin.

Ross Operating Valve Company, assignee: *See*—
Hallett, Charles H., and Helser.

Rossi, Harald H.: *See*—
Failla, Gioacchino, and Rossi.

Rotary Lift Company, assignee: *See*—
Green, Richard W.

Rothweiler, Charles O., assignor to David White Company, Milwaukee, Wis. Index clamp. 2,659,149, Nov. 17.

Rotter, Lutwin C., Maplewood, and A. D. Reisert, assignors to Lincoln Engineering Company, St. Louis, Mo. Cabinet for line-retrieving reeling apparatus. 2,659,546, Nov. 17.

Rowell, William G., Quincy, assignor to Scully Signal Company, Cambridge, Mass. Oil burner with heat responsive fuel cutoff. 2,659,426, Nov. 17.

Rubbra, Arthur A., and L. Haworth, Littleover, Derby, assignors to Rolls-Royce Limited, Derby, England. Hydraulic thrust balancing device. 2,659,240, Nov. 17.

Ruberoid Co., The, assignee: *See*—
Abraham, Herbert.

Rudolph, Hans A., Hollywood, assignor to International Rectifier Corporation, Los Angeles, Calif. Selenium element and making it. 2,659,846, Nov. 17.

Russell, William M.: *See*—
Morphy, Donal W., and Russell.

Ryba, Anton, Bolzano, Italy. Electromagnetic pumping device for pumping fluids. 2,659,310, Nov. 17.

Sablé, André, Marseille, assignor to Societe d'Electro-Chimie d'Electro-Metallurgie et des Aciéries Electriques d'Ugine, Paris, France. Method and apparatus for the manufacture of alumina. 2,659,660, Nov. 17.

Sacks, Reuben R.: *See*—
Carson, Richard M., and Sacks.

Sage, Richard W., Fanwood, and L. A. Jennings, Mountainside, N. J., assignors to Standard Oil Development Company. Stabilizer for residual oils. 2,659,666, Nov. 17.

Saginaw Wire Products, Inc., assignee: *See*—
Klemm, Edwin O.

St. Clair, Theodore A.: *See*—
Johnson, Andrew G., and St. Clair.

Sandor, Florence M. A., executrix: *See*—
Sandor, Nicholas.

Sandor, Nicholas, deceased, late of Surbiton, England, by F. M. A. Sandor, executrix, Surbiton, England. Foam forming device. 2,659,582, Nov. 17.

Sargent, Roger W. H., assignor to The British Oxygen Company Limited, London, England. Separation of gas mixtures. 2,659,216, Nov. 17.

Savarese, Albert J., Glendale, Calif. Mouthpiece to be worn by athletes. 2,659,366, Nov. 17.

Saxe, Walter E., San Gabriel, assignor to The Conveyor Company, Inc., Los Angeles, Calif. Automatic dispensing mechanism. 2,659,563, Nov. 17.

Scag, Dane T., Milwaukee, and D. K. Getzlaff, Wauwatosa, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Orienting and scanning support for betatrons. 2,659,827, Nov. 17.

Schaffer, George H., Waterbury, Conn. Centrifugal pump. 2,659,311, Nov. 17.

Schelleng, John C., Interlaken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency modulation repeater. 2,659,813, Nov. 17.

Schenley Industries, Inc., assignee: *See*—
Katz, Leon.

Schlender, William H., assignor to Boeing Airplane Company, Seattle, Wash. Aircraft with quadricycle landing gear. 2,659,555, Nov. 17.

Schlichting, Otto, Ludwigshafen (Rhine), E. Jutz, Schifferstadt, and W. Rohland, Ludwigshafen (Rhine-Oppau), assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Germany. 1-nitroanthraquinone-3-carboxylic acid and producing it. 2,659,738, Nov. 17.

Schnee, Charles F., Setauket, N. Y. Surgical clamp. 2,659,371, Nov. 17.

Schneider, Herbert A., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Apparatus for spraying attenuation material onto traveling wave tube helices. 2,659,337, Nov. 17.

Schneider, William P., assignor to The Upjohn Company, Kalamazoo, Mich. 11 alpha, 17 alpha, 21-trihydroxyallopregnane and its esters. 2,659,744, Nov. 17.

Schnitter, Sylvester B., Dallas, assignor to L. L. Rector, Tarrant County, Tex. Means for cementing wells. 2,659,438, Nov. 17.

Schreiber, Albert A., Salem, N. Y., assignor to Van Dyk & Company, Inc., Belleville, N. J. Benzoic esters. 2,659,689, Nov. 17.

Schroer, Walter E., Affton, assignor to Loose Leaf Metals Co., St. Louis, Mo. Loose-leaf post binder. 2,659,373, Nov. 17.

Schultz, Roy M., assignor to Pontiac Engraving & Electrotype Co., Chicago, Ill. Trimming machine. 2,659,278, Nov. 17.

Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Rubber processing composition. 2,659,677, Nov. 17.

Schum, Wesley R., Chicago, Ill. Compression amplifier for radio circuits. 2,659,777, Nov. 17.

Schwartz, Albert M., Palos Verdes, and J. T. Willoughby, Los Angeles, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Attachment for plastic enclosures. 2,659,462, Nov. 17.

Scott-Atwater Manufacturing Company, assignee: *See*—
Bandli, John C.

Scully Signal Company, assignee: *See*—
Rowell, William G.

Searle, G. D., & Co., assignee: *See*—
Cusic, John W., and Robinson.

Searles, Will C., Denver, Colo. Hatrack for automobiles. 2,659,489, Nov. 17.

Seljos, Arthur L., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Pressure amplifying device. 2,659,381, Nov. 17.

Seljos, Arthur L., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Live line load weight indicator assembly. 2,659,575, Nov. 17.

Setright Registers Limited, assignee: *See*—
Adshead, Charles W.

Shaak, Nathan N.: *See*—
Shaak, William E. and N. N.

Shaak, William E., New Orleans, and N. N. Shaak, Metairie, La. Control system for cloth laying machines. 2,659,597, Nov. 17.

Shaffer, Clifford A.: *See*—
Chronic, Clarence C., and Shaffer.

Shaffer, Walter M., assignor to Towmotor Corporation, Cleveland, Ohio. Mechanism for controlling the stability of material-handling machines. 2,659,505, Nov. 17.

Sheffield Corporation, The, assignee: *See*—
Aller, Willis F.

Shelburne, Clyde D., assignee: *See*—
Hoke, Richard P., and Brown.

Sheldon, Luther M., Edgewood, R. I., assignor to Monowatt, Inc. Wire connector for range receptacles. 2,659,877, Nov. 17.

Shell Development Company, assignee: *See*—
Detling, Kenneth D., and Skei.
Harman, Denham, and Stiles.
Mazee, Willem M., and Loois.

Shmidl, Albert J., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Ammonium sulfate production. 2,659,659, Nov. 17.

Signode Steel Strapping Company, assignee: *See*—
Lau, Herbert C.

Simpson, Frank R., Upper Darby, Pa. Tool for assembly of pre-engraved projectiles with cartridge cases. 2,659,262, Nov. 17.

Sinclair Refining Company, assignee: *See*—
Wayo, Stephen J.

Sing, Boyd H.: *See*—
Broadbent, William B., and Sing.

Singer Manufacturing Company, The, assignee: *See*—
Hacklander, Hans.
Hale, Arthur N.
Knaus, Nicholaus.

Singleton, Lester D., assignor to H. A. Hadley Associates, Inc., Burlington, Vt. Weighing scale. 2,659,593, Nov. 17.

Siverts, Edward C., Glendive, Mont. Roundabout amusement device. 2,659,601, Nov. 17.

Skaggs, Everett E.: *See*—
Skaggs, Robert P., and E. E.

Skaggs, Robert P., and E. E., Phoenix, Ariz. Adjustable stilts. 2,659,087, Nov. 17.

Skei, Thurston: *See*—
Detling, Kenneth D., and Skei.

Sketchley, Harry J., Los Angeles, Calif. Conduit reaming machine. 2,659,540, Nov. 17.

Skillman, Claude T., and M. Kistner, Santa Maria, Calif. Hubcap with locking means. 2,659,229, Nov. 17.

Skillman, Claude T., and M. Kistner, Santa Maria, Calif. Card shuffling device. 2,659,607, Nov. 17.

Slaybaugh, Elmer H., Parsons, Kans. Effervescent barium sulfate-pectin X-ray contrast composition. 2,659,690, Nov. 17.

Slaymaker, Frank H.: *See*—
Meeker, Willard F., and Slaymaker.

Smith, Arthur E., Los Angeles, Calif. Closure. 2,659,370, Nov. 17.

Smith, George A., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Well surveying instrument. 2,659,160, Nov. 17.

Smith, Harry F., Lexington, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio. Bolt clip for toilet tank and bowl combination. 2,659,088, Nov. 17.

Smith, James W., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostatic control device and burner system. 2,659,534, Nov. 17.

Smith, Joel D., Sr., Alice, Tex. Safety belt cable take-up and shock absorber. 2,659,573, Nov. 17.

Smith, Kline & French Laboratories, assignee: *See*—
Craig, Paul N., and Nabenhauer.

Smith, William P. C., Rockport, Mass. Liquid dispenser. 2,659,516, Nov. 17.

Smook, Malcolm A.: *See*—
Youngquist, Orrin G., Smook, and Brooks.

Soccoli, Dom D., New Britain, Conn. Toast warming attachment for electric toasters. 2,659,295, Nov. 17.

"Société Anonyme des Forges et Chantiers de la Mediterranee," assignee: *See*—
Valensi, Jacques.

Societe Anonyme dite Compagnie Francaise de Raffinage, assignee: *See*—
Gislon, André, and Quiquerez.

Societe Anonyme dite: Forges et Ateliers de Constructions Electriques de Jeumont, assignee: *See*—
Teszner, Stanislas.

Societe Anonyme pour les Applications de l'Electricite et des Gas Rares-Etablissements Claude-Paz et Silva, assignee: *See*—
Lemaigre-Voreaux, Pierre.

Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine, assignee: *See*—
Sablé, André.

Societe d'Etudes et de Constructions Aero-Navales, assignee: *See*—
Mercier, Pierre.

Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie S. A., assignee: *See*—
Huber, Robert.

Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., assignee: *See*—
Conway, Hugh G., Orloff, and Fairclough.

Societe dite: Etablissments & Laboratoires Georges Truffaut, assignee: *See*—
Hampe, Pierre.

Societe dite: Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Societe Anonyme, assignee: *See*—
Garnier, Michel R., and Poujade.

Société dite: Usines Gallus (Societe Anonyme), assignee: *See*—
Brosselin, Michel.

Sonneborn, L., Sons, Inc., assignee: *See*—
Faust, Jacob.

Sonoco Products Company, assignee: *See*—
Broadbent, William B., and Sing.
Guyer, Frank C.

Soule, Edward C., Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation. Thallophytocidal composition containing metal-hydrazine salts and using the same. 2,659,688, Nov. 17.

Sperry-Sun Well Surveying Company, assignee: *See*—
Smith, George A.

Sprague Electric Company, assignee: *See*—
Allison, William M.
Robinson, Preston.

Spraragen, Louis, Fairfield, assignor to Bridgeport Fabrics, Inc., Bridgeport, Conn. Beading strip. 2,659,117, Nov. 17.

Stalker, Edward A., Bay City, Mich. Aircraft surface with boundary layer control. 2,659,552, Nov. 17.

Standard Oil Company, assignee: *See*—
Heard, Llewellyn, and Den Herder.
Lien, Arthur P., and McCaulay.

Standard Oil Development Company, assignee: *See*—
Crookston, Robert B.
Lippincott, Samuel B., Baumgartner, and Yowell.
Lytle, Melba L.
Mikeska, Louis A.
Sage, Richard W., and Jennings.
Seljos, Arthur L.
Shmidl, Albert J.
Tuttle, John B.

Standard Register Company, The, assignee: *See*—
Stimson, Percy G.
Stanley, Paul H., Glenside, assignor to Autogiro Company of America, Philadelphia, Pa. Molded aircraft sustaining rotor blade. 2,659,444, Nov. 17.
Stanton, Austin N., Garland, Tex. Potential measuring device. 2,659,863, Nov. 17.
Starkey, Neal E., Schenectady, N. Y., assignor to General Electric Company. Hydraulic servo mechanism for gas turbine fuel regulators. 2,659,349, Nov. 17.
Stauffer, William R.: *See*—
Toulmin, Harry A., Jr., and Stauffer.
Steel Heddle Manufacturing Company, assignee: *See*—
Kaufmann, Frank H.
Steenfeld, Joseph: *See*—
Werker, William A., and Steenfeld.
Steer, Leonard H., Allison, Iowa. Tractor lifting apparatus. 2,659,572, Nov. 17.
Steiner, Arnold B., La Jolla, assignor to Kelco Company, San Diego, Calif. Stabilizing foam forming on malt beverages and beverages stabilized therewith. 2,659,675, Nov. 17.
Steins, Carleton K., Overbrook, and W. M. Keller, Merion, assignors to The Pennsylvania Railroad Company, Philadelphia, Pa. Freight car for double-deck loading of automobiles. 2,659,318, Nov. 17.
Stengel, Erwin, and G. Klotz, Karlsruhe, Germany. Lining for earth constructions. 2,659,210, Nov. 17.
Stenglein, Oswald, Mammendorf, Upper Bavaria, Germany, assignor to Maschinenbau- & Glesserei A. G., Basel, Switzerland. Thread guiding device. 2,659,539, Nov. 17.
Stȅrnbeck, Olaf, Eriksvik, Saltsjobo, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden. Connecting device for electron tubes. 2,659,814, Nov. 17.
Steuber, Albert H., assignor to Eastman Kodak Company, Rochester, N. Y. Rewind core holder. 2,659,542, Nov. 17.
Stewart-Warner Corporation, assignee: *See*—
Morton, Robert B.
Stiles, Alan R.: *See*—
Harman, Denham, and Stiles.
Stimson, Percy G., assignor to The Standard Register Company, Dayton, Ohio. Strip feeding mechanism. 2,659,472, Nov. 17.
Storer, Merrill E., Rochelle Park, assignor to Janke and Company, Hackensack, N. J. Explosive atmosphere test chamber. 2,659,235, Nov. 17.
Stout, Kenneth L., assignee: *See*—
Haley, Allan M.
Straley, James M., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Condensation products of the benzanthrone series and their preparation. 2,659,735, Nov. 17.
Strehl, Henry O., Chicago, Ill. Food warming means. 2,659,362, Nov. 17.
Stromberg-Carlson Company, assignee: *See*—
Elliott, George.
Meeker, Willard F., and Slaymaker.
Stroup, Philip T., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Brazing and brazing alloy. 2,659,138, Nov. 17.
Studer, Frank J.: *See*—
Cusano, Dominic A., and Studer.
Sullivan, Edmund T.: *See*—
Anderson, Nelson E., and Sullivan.
Summers, Andrew, Jr., assignee: *See*—
Jones, William S.
Sun Oil Company, assignee: *See*—
McClure, William L.
Super Mold Corporation of California, assignee: *See*—
Glynn, Edwin A.
Sutherland Paper Company, assignee: *See*—
Buttery, Kenneth T.
Sutliff, Wayne N., Bakersfield, Calif. Bailer for oil well bores. 2,659,442, Nov. 17.
Swan, William H., Rochester, N. Y. Display box. 2,659,490, Nov. 17.
Swartwout Company, The, assignee: *See*—
Swartwout, Denton K., III, and Gilliland.
Swartwout, Denton K., III, Chagrin Falls, and R. L. Gilliland, Euclid, assignors to The Swartwout Company, Cleveland, Ohio. Feed water regulation. 2,659,350, Nov. 17.
Sweet, Roger G., Bexley, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Production of fluoride-free uranium oxide. 2,659,655, Nov. 17.
Sweetman, George A., Trinidad, Colo. Luggage carrier. 2,659,464, Nov. 17.
Swisher, Martin S., Pittsburg, Kans. Adjustable trail frame holder. 2,659,266, Nov. 17.
Syntex S. A., assignee: *See*—
Rosenkranz, George, Kaufman, and Pataki.
Szitar, John E.: *See*—
Baldwin, John D., Jr., and Szitar.
Taddel, Carlo: *See*—
Halbig, Paul, and Taddel.
Taggart, Robert E., Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind. Gluing assembly for packaging machines. 2,659,341, Nov. 17.
Taggart, Robert E., Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind. Glue-applying apparatus for packaging machines. 2,659,342, Nov. 17.
Talbot, Howard H., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Universal coupling. 2,659,217, Nov. 17.
Tanke, Willard H., La Crosse, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Reversible disk attachment for agricultural implements. 2,659,291, Nov. 17.
Taylor, Humphrey G., Lower Penn, near Wolverhampton, England. Ship's davit. 2,659,093, Nov. 17.
Taylor, Paul H., Grand Island, assignor to Wales-Strippit Corporation, North Tonawanda, N. Y. Machine tool with liquid-spring actuated ram. 2,659,348, Nov. 17.
Taylor, Taylor & Hobson Limited, assignee: *See*—
Clifford, Thomas W., and Mills.
Technology Instrument Corporation, assignee: *See*—
Mairs, William J.
Telefonaktiebolaget L M Ericsson, assignee: *See*—
Ericsson, Eric A., Jörgensen, and Överby.
Sternbeck, Olaf.
Teletype Corporation, assignee: *See*—
Zenner, Walter J.
Ter Meer, Herman, assignor to National Brass Company, Grand Rapids, Mich. Friction latch. 2,659,620, Nov. 17.
Tesla, Narodni Podnik, assignee: *See*—
Exr, Karel.
Teszner, Stanislas, assignor to Societe Anonyme dite: Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France. Lightning arrester. 2,659,842, Nov. 17.
Thompson, Garrie, Berkeley, Calif. Turnbuckle wrench. 2,659,257, Nov. 17.
Thompson, Ralph B., Hinsdale, and H. S. Bloch, assignors to Universal Oil Products Company, Chicago, Ill. Preparation of resinous condensation products from aromatic ketones and amines. 2,659,712, Nov. 17.
Thompson, Russell G., assignor to Eastman Kodak Company, Rochester, N. Y. High-speed multiplex recording apparatus. 2,659,652, Nov. 17.
Thompson, William O., San Francisco, Calif. Apparatus for avoiding hot starts in turbojet engine operation and for igniting fuel in the afterburner. 2,659,199, Nov. 17.
Thompson, William O., San Francisco, Calif. Method and apparatus for safeguarding against prolonged cessation of operation of turbojet engines. 2,659,200, Nov. 17.
Thoresen, John C., Warwick, assignor to Builders Iron Foundry, Providence, R. I. Totalizing apparatus. 2,659,531, Nov. 17.
Tigrett, John B., assignee: *See*—
Massopust, Carl F.
Tilghman Packing Company, assignee: *See*—
Harrison, George T.
Tobiassen, Ole H., assignor to Lovens kemiske Fabrik ved A. Kongsted, Copenhagen, Denmark. Penicillin salts of aminoalkyl-hydroxybenzoates. 2,659,722, Nov. 17.
Toledo Scale Company, assignee: *See*—
Little, John M., and Blank.
Topp, Hereward J. B., Mauriceville, Wairarapa, New Zealand. Means for delivering lime and manure from motor trucks and the like. 2,659,608, Nov. 17.
Tornabene, Alfonse F., Chicago, Ill. Detachable window structure. 2,659,112, Nov. 17.
Toro Manufacturing Corporation, assignee: *See*—
Miller, William F., and Kroll.
Torrey, Bradford M., Milton, assignor to Raytheon Manufacturing Company, Newton, Mass. High-frequency directed radio energy system. 2,659,818, Nov. 17.
Toulmin, Harry A., Jr., and W. R. Stauffer, assignors to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Impregnating a synthetic rubber to form a sponge rubber and the article produced thereby. 2,659,703, Nov. 17.
Towmotor Corporation, assignee: *See*—
Shaffer, Walter M.
Towne, Edmund B.: *See*—
Dickey, Joseph B., and Towne.
Townsend, Ray T., Des Moines, Iowa. Skinning machine for flat pork cuts. 2,659,402, Nov. 17.
Trautmann, Herbert L., assignor of one-half to J. O. Blackmon, Torrance, and one-half to W. E. Mickey, Los Angeles, Calif. Harpoon. 2,659,273, Nov. 17.
Treuting, Robert G., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Silicon-germanium objective lens. 2,659,271, Nov. 17.
Trevitt, John H., assignor to Dictaphone Corporation, Bridgeport, Conn. Constant speed motor drive system. 2,659,852, Nov. 17.
Triller, Benjamin J., assignor to Farley & Loetscher Manufacturing Company, Dubuque, Iowa. Freely translatable sliding door. 2,659,111, Nov. 17.
Troy, Leonard, Clarks Summit, Pa. Apparatus for regulating the passage of fuel in carburetor manifolds. 2,659,352, Nov. 17.
Trulsson, Sven I.: *See*—
Nilsson, Hans R., and Trulsson.
Trznadel, Amelia, Holyoke, Mass. Body supporting garment. 2,659,084, Nov. 17.
Tuttle, Fordyce E., and W. C. Newcomb, assignors to Eastman Kodak Company, Rochester, N. Y. Determining the velocity and acceleration characteristics of moving objects. 2,659,264, Nov. 17.
Tuttle, John B., Pelham Manor, N. Y., assignor to Standard Oil Development Company. Composition for manufacture of sand cores. 2,659,654, Nov. 17.

Tyler, Edward P., North Hollywood, Calif. Broiler. 2,659,296, Nov. 17.
Union Carbide and Carbon Corporation, assignee: *See*—
Sweet, Roger G.
Yeuni, Donald M., and Hart.
Union Oil Company of California, assignee: *See*—
Neff, Loren L.
Union Steel Products Company, assignee: *See*—
Averill, Charles C.
Bitney, Dewey H.
United Aircraft Corporation, assignee: *See*—
Brown, William H.
United Engineering & Foundry Company, assignee: *See*—
Talbot, Howard H.
Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Maximoff, Boris S.
United States Atomatic Box Machinery Co., Inc., assignee: *See*—
Wikstrom, Oskar W.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Failla, Gioacchino, and Rossi.
Hickman, Clarence N.
Lee, George H.
United States of America, assignee: *See*—
Gardner, Andrew L.
United States Rubber Company, assignee: *See*—
Berger, Sidney E., and Webb.
Fisk, Charles F., and Meyer.
United States Steel Corporation, assignee: *See*—
Neish, Richard A.
Rendel, George H.
U. S. Universal Joints Company, assignee: *See*—
Guy, Frederick M.
Universal Oil Products Company, assignee: *See*—
Gaydasch, Alexander.
Haensel, Vladimir, and Gerhold.
Thompson, Ralph B., and Bloch.
Unk, Jacob M., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Overload release coupling and control operated thereby. 2,659,469, Nov. 17.
Upjohn Company, The, assignee: *See*—
Murray, Herbert C., and Peterson.
Schneider, William P.
Valensi, Jacques, Marseille, assignor of one-half to "Société Anonyme des Forges et Chantiers de la Mediterranée," Paris, France. Chimney stack, especially for land vehicles and ships. 2,659,293, Nov. 17.
Valley, Emil P., Chicago, Ill. Adjustable tension backstop for Miehle vertical printing presses. 2,659,599, Nov. 17.
Vanderloop, Norbert A., Forest Junction, Wis. Tractor plow attachment. 2,659,288, Nov. 17.
Van Dyk & Company, Inc., assignee: *See*—
Schreiber, Albert A.
Van Hartesveldt, Carroll H., Cleveland, Ohio. Toy flying saucer. 2,659,178, Nov. 17.
Vaughan, James R., Jr., Glenbrook, Conn., assignor to American Cyanamid Company, New York, N. Y. Mixed anhydrides between carboxylic and substituted arsenous acids. 2,659,745, Nov. 17.
Veitch, Albert H., Plainville, Conn., assignor, by mesne assignments, to General Electric Company. Collector plug for bus bar duct systems. 2,659,874, Nov. 17.
Veitscher Magnesitwerke-Aktiengesellschaft, assignee: *See*—
Hönig, Fritz.
Verkinderen, Honoré: *See*—
Von Fraunhofer, Hans, Verkinderen, and Moeussen.
Verrinder, Ernest A., Riverside, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Unstacker. 2,659,497, Nov. 17.
Vickers-Armstrongs Limited, assignee: *See*—
Wallis, Barnes N.
Victor Industries Corporation, assignee: *See*—
Jung, Albert H.
Vinco Corporation, assignee: *See*—
Osplack, Joseph J.
Von Allmen, Samuel, and H. Eggenberger, Basel, Switzerland. Acid dyestuffs of the anthraquinone series. 2,659,736, Nov. 17.
Von Fraunhofer, Hans, London, England, and H. Verkinderen, and L. Moeussen, Mortsel-Antwerp, Belgium, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, and Chromart Film Industries, New York, N. Y. Color photographic element. 2,659,671, Nov. 17.
Von Lienen, Emil H., Fahrzeugfabrik, assignee: *See*—
Kranawetvogel, Anton, and Rosin.
Vossberg, Carl A., Jr., Lynbrook, N. Y. Measuring system. 2,659,823, Nov. 17.
Wagner, E. R., Manufacturing Company, assignee: *See*—
Himes, John M.
Wahle, Adolph, assignor to W. H. Martin, Davenport, Iowa. Centrifugal pump. 2,659,312, Nov. 17.
Wakefield, F. W., Brass Company, The, assignee: *See*—
Beckwith Herbert L.
Wakefield George P.
Wakefield, George P., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Combination luminous and acoustical ceiling. 2,659,807, Nov. 17.
Wakefield, George P., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Luminaire for elongated tubular lamps. 2,659,811, Nov. 17.
Waldheim, John J., and E. O. Bartolucci, assignors to Bartolucci & Waldheim, Chicago, Ill. Chair. 2,659,419, Nov. 17.
Walding, Samuel O., Santa Monica, Calif. Weight indicating cart. 2,659,591, Nov. 17.
Wales-Strippit Corporation, assignee: *See*—
Taylor, Paul H.
Wallis, Barnes N., Weybridge, assignor to Vickers-Armstrongs Limited, London, England. Means for launching airplanes and other flying bodies. 2,659,353, Nov. 17.
Walls, George V., Littleton, Colo. Apparatus for securing a resilient tread to the bottom surface of flexible footwear. 2,659,094, Nov. 17.
War, United States of America as represented by the Secretary of, assignee: *See*—
Weldon, Harry A.
Waring, Nathan S.: *See*—
Anderson, Lloyd L., Waring, and Korb.
Warner Electric Brake & Clutch Company, assignee: *See*—
Mason, James A., and Kraeplin.
Warner & Swasey Company, The, assignee: *See*—
Hegedüs, Ede.
Warren, Alfred, Vancouver, British Columbia, Canada. Pressure cooker. 2,659,805, Nov. 17.
Warren Petroleum Corporation, assignee: *See*—
Phelps, Rex V.
Wass, Ernest: *See*—
Wass, Yvonne and E.
Wass, Yvonne and E., Rochester, N. Y. Upholstery covering. 2,659,421, Nov. 17.
Waters, Albert V., Perivale, Greenford, assignor to C. A. V. Limited, London, England. Signal and cutout for use in dynamo-battery systems. 2,659,855, Nov. 17.
Watkins, George B., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Laminated glass structure. 2,659,686, Nov. 17.
Watkins, Victor L., Santa Monica, Calif. Grab block for fork lift trucks. 2,659,506, Nov. 17.
Watson, George R., Waukegan, Ill. Rock drill bit. 2,659,577, Nov. 17.
Watter, Michael, assignor to The Budd Company, Philadelphia, Pa. Shock and sound absorbing vehicle wheel and the like. 2,659,622, Nov. 17.
Wayo, Stephen J., Whiting, Ind., assignor to Sinclair Refining Company, New York, N. Y. Lubricating oils containing an acyloxyacctic acid as a rust inhibitor. 2,659,697, Nov. 17.
Wear, John M., Jr., Gray Summit, assignor to Ralston Purina Company, St. Louis, Mo. Automatic poultry drinking fountain. 2,659,347, Nov. 17.
Weatherhead Company, The, assignee: *See*—
Baldwin, John D., Jr., and Szitar.
Johnson, Andrew G., and St. Clair.
Webb, Kermit M.: *See*—
Berger, Sidney E., and Webb.
Webster, George L.: *See*—
Ninneman, Eric O., Webster, Hohl, and Bjering.
Welch, Clifford E., assignee: *See*—
Ferrick, Jay.
Weldon, Harry, Plant City, Fla. Flatiron pressing stocking. 2,659,167, Nov. 17.
Weldon, Harry A., Edgewood, Md., assignor to the United States of America as represented by the Secretary of War. Gas protective fabric and preparing the same. 2,659,681, Nov. 17.
Wellman Engineering Company, The, assignee: *See*—
Kincaid, John H.
Wells, Frank W., Pasadena, Calif., and J. T. Kulhavy, Rock Island, Ill., assignors to J. I. Case Company, Racine, Wis. Power lift. 2,659,308, Nov. 17.
Welsh, Robert J., Rugby, England. Separator for impurities present in the combustion products of gas turbine plants. 2,659,448, Nov. 17.
Wengel, Arthur M., Blooming Grove, assignor to Ray-O-Vac Company, Madison, Wis. Power supply unit for high-speed flash. 2,659,854, Nov. 17.
Wenger, Harvey R., Sabetha, Kans. Fishing lure. 2,659,176, Nov. 17.
Werker, William A., Palisades Park, N. J., and J. Steenfeld, New York, N. Y., assignors to Bendix Aviation Corporation, Teterboro, N. J. Valve. 2,659,570, Nov. 17.
West, Edward E., Richmond, Va. Tubular bag machine. 2,659,328, Nov. 17.
Westfahl, William C., Olin, Iowa. Portable bathtub. 2,659,090, Nov. 17.
Westinghouse Air Brake Company, assignee: *See*—
Dodd, Arthur E.
Hufnagel, Andrew.
West Point Manufacturing Company, assignee: *See*—
McHargue, William L.
Wetmore, Earnest M., Tonkawa, Okla. Carrier for mounting hammer mills and the like on tractors. 2,659,447, Nov. 17.
Wetsel, Cecil L., Sacramento, Calif. Load weight indicator for fork-lift trucks. 2,659,592, Nov. 17.
Wheeler, James H., Kansas City, Mo. Drill jig. 2,659,251, Nov. 17.
Wheelis, Ben W., Burnet, Tex. Antifriction bearing assembly. 2,659,636, Nov. 17.

White, David, Company, assignee: *See*—
Rothweiler, Charles O.
Whitney, David Y., Jr.: *See*—
Cook, John S., and Whitney.
Wiegand, Edwin L., Company, assignee: *See*—
Boggs, Alben C.
Wiese, Lee O., Perry, Iowa. Welding jig for repairing plowshares. 2,659,332, Nov. 17.
Wikstrom, Oskar W., Newton, assignor to United States Atomatic Box Machinery Co., Inc., Roslindale, Mass. Polygonal box. 2,659,525, Nov. 17.
Wilkins, John P., Grand Island, Buffalo, N. Y., and E. L. Wittbecker, West Chester, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chelate polymers from tetraketones. 2,659,711, Nov. 17.
Williams, Chester I., Grand Rapids, Mich. Clamp bracket. 2,659,125, Nov. 17.
Williams, Elmer R., Springfield, Mo. Structure for removing free water from products having oil and free water therein. 2,659,488, Nov. 17.
Williams, Peter R., San Antonio, Tex. Rack attachment for bathtubs. 2,659,491, Nov. 17.
Williamson, Norman B., Portland, Oreg. Folding baby cart. 2,659,612, Nov. 17.
Williamson, William R., Independence, Mo. Glue dispensing assembly for envelope handling machines. 2,659,280, Nov. 17.
Willock, Harry E., Vancouver, British Columbia, Canada. Rear-end suspension for motor trucks. 2,659,446, Nov. 17.
Willoughby, John T.: *See*—
Schwartz, Albert M., and Willoughby.
Wilmes, William L., assignor to Binks Manufacturing Company, Chicago, Ill. Centrifugal liquid nozzle. 2,659,631, Nov. 17.
Wilson, Charles K., East Williston, assignor to Metallizing Engineering Co. Inc., Long Island City, N. Y. Gun construction for gas blast spraying heat-fusible materials. 2,659,623, Nov. 17.
Wilson, Thomas Y.: *See*—
Easton, Rufus, and Wilson.
Winchester Electronics, Inc., assignee: *See*—
Gilbert, Leon.
Winchester, Robert H., Trenton, N. J. Apparatus for detecting flaws in metals. 2,659,858, Nov. 17.
Windalume Corporation, assignee: *See*—
Klein, Robert L., Maffei, and Kirschstein.
Wittbecker, Emerson L.: *See*—
Wilkins John P., and Wittbecker.
Wolf, George S.: *See*—
Fahey, Edward W., and Wolf.
Wolf, Robert W., assignor to Heintz Manufacturing Company, Philadelphia, Pa. Latch and interlock. 2,659,782, Nov. 17.
Wood, Homer J., Sherman Oaks, assignor to The Garrett Corporation, Los Angeles, Calif. Compressor and drive. 2,659,247, Nov. 17.
Wood, James R., assignor to Harris-Seybold Company, Cleveland, Ohio. Reversing drive mechanism. 2,659,237, Nov. 17.
Wood, Stuart G., assignor to Rockford Wire Stripper Co., Rockford, Ill. Wire stripper. 2,659,254, Nov. 17.
Wood, Wallace H., assignor to Norton Company, Worcester, Mass. Gear pump. 2,659,314, Nov. 17.
Works, William R., Washougal, Wash., and F. A. M. Buck, Concord, Calif. Vortex ring process for liquid-liquid extraction. 2,659,664, Nov. 17.
Worthington Corporation, assignee: *See*—
Henderson, Robert M.
Worthington Mower Company, assignee: *See*—
Imbt, Herbert.
Wyandotte Chemicals Corporation, assignee: *See*—
Ash, Arthur B., and Earing.
Wydler, Erhard: *See*—
Peter, Albin, and Wydler.
Wynn, Arthur H. A.: *See*—
Fleming-Williams, Brian C., and Wynn.
Yale & Towne Manufacturing Company, The, assignee: *See*—
Framhein, Herbert J.
Yarrow, Joseph S., Litchfield County, Conn. Lamp socket. 2,659,875, Nov. 17.
Yenni, Donald M., Williamsville, and T. F. Hart, Buffalo, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Process of and apparatus for forming stylus-like articles from corundum or spinel. 2,659,181, Nov. 17.
Yonkers, Edward H., Jr., Glencoe, assignor to Joslyn Mfg. & Supply Co., Chicago, Ill. Street lighting control unit. 2,659,840, Nov. 17.
Young, Richard W., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Mixed anhydrides of phosphite esters and preparing the same. 2,659,747, Nov. 17.
Youngquist, Orrin G., M. A. Smook, and R. E. Brooks, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Curing agents for chlorosulfonated polyethylene. 2,659,707, Nov. 17.
Yowell, Howard L.: *See*—
Lippincott, Samuel B., Baumgartner, and Yowell.
Zabriskie, Charles L., assignor to Essex Products, Inc., New York, N. Y. Fire extinguisher structure. 2,659,443, Nov. 17.
Zander, Waldo H., Brookville, Ohio, assignor to McGraw Electric Company, Elgin, Ill. Electric heating element. 2,659,800, Nov. 17.
Zemba, John W., assignor to The Dow Chemical Company, Midland, Mich. Production of 6-chloro-O-cresol. 2,659,759, Nov. 17.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Positive engaging clutch. 2,659,467, Nov. 17.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Tape controlled telegraph transmitter. 2,659,767, Nov. 17.
Zerbe, Richard O., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Sulfides of thiodiarylamines. 2,659,724, Nov. 17.
Ziebolz, Herbert: *See*—
MacLea, Robert K., Jr., Greenwood, and Ziebolz.
Zinn, Julius A., Jr., Chicago, Ill. Apparatus for applying hot melt adhesive to carton blanks. 2,659,340, Nov. 17.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 17TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Attachment for pressing irons. A. F. W. Helmbold. Re. 23,736, Nov. 17.
Baling press. H. W. Jones and G. Glazer. Re. 23,737, Nov. 17.
Corrosion inhibiting compositions and method. J. W. Ryznar and M. A. Peich. Re. 23,740, Nov. 17.
Flocked designs, Producing. E. C. Summers. Re. 23,741, Nov. 17.
Grinding machine with crush-dressing attachment. L. F. Polk. Re. 23,739, Nov. 17.
Weighing mechanism, Photoelectric. D. W. Molins, C. Best, and E. A. Chandler. Re. 23,738, Nov. 17.

LIST OF PLANT INVENTIONS

Black walnut tree. C. Weschcke. 1,229, Nov. 17.
Nectarine tree. F. W. Hof Mann. 1,230, Nov. 17.

LIST OF DESIGN INVENTIONS

Accordion grill. M. Pancotti. 170,889–90, Nov. 17.
Apron. F. Warren. 170,896, Nov. 17.
Arm restraint. J. V. Neville. 170,885, Nov. 17.
Ash tray. L. Welk. 170,898, Nov. 17.
Boat. E. F. Butler and C. Hamlin. 170,850, Nov. 17.
Bracelet or similar article. M. Boucher. 170,848, Nov. 17.
Brooch or the like. A. Katz. 170,867–8, Nov. 17.
Brooch or the like. A. Katz. 170,870–1, Nov. 17.
Cabinet, Cigarette merchandising machine. R. Spilman, A. R. Morrow, and E. Axel. 170,893, Nov. 17.
Cabinet, Radiophonograph. R. D. Budlong and J. De Young. 170,849, Nov. 17.
Car body, Railway. A. B. Girardy, C. V. Norby, and D. W. Doman. 170,857, Nov. 17.
Chest. M. L. Gershun. 170,856, Nov. 17.
Clock. I. B. Hall. 170,859, Nov. 17.
Container for lamp bulbs, Display. J. R. Basslre. 170,846, Nov. 17.
Cooler, Room. D. P. Chuboff. 170,851, Nov. 17.
Cushion or similar article, Rug. D. R. Harwin, A. Stern, and V. H. Bodle. 170,861, Nov. 17.
Dehumidifier. L. H. Wilson. 170,900, Nov. 17.
Desk pad and penholder, Combined. H. W. Marano. 170,879–81, Nov. 17.
Dispenser for powdered or granular materials. G. Graff. 170,858, Nov. 17.
Dress. M. Tait. 170,895, Nov. 17.
Drill display unit or similar article. L. H. Drohman. 170,852, Nov. 17.
Earring or the like. A. Katz. 170,865–6, Nov. 17.
Earring or the like. A. Katz. 170,869, Nov. 17.
Earring or the like. A. Katz. 170,872, Nov. 17.
Footrest, Shower. S. R. Dunham. 170,853, Nov. 17.
Head support for use in bathtubs, Child's. E. Harris. 170,860, Nov. 17.
Holder and handle for electric soldering irons and the like, Combined. A. Schoenwald. 170,892, Nov. 17.
Holder or similar article, Newspaper and periodical. S. K. Wolff. 170,901–2, Nov. 17.
Luminaire. R. W. Loehr. 170,877, Nov. 17.
Mailbox. I. A. Levine. 170,875–6, Nov. 17.
Milling machine or similar article, Vertical. I. O. Johansson. 170,864, Nov. 17.
Mixer unit, Portable food. J. Morgan. 170,884, Nov. 17.
Necklace or similar article. M. Boucher. 170,847, Nov. 17.
Nutcracker. J. C. Rumsey. 170,891, Nov. 17.
Platform for figurines or the like. E. E. Mecus. 170,883, Nov. 17.
Powder box, lipstick container, and holder therefor or similar article, Combined. A. J. Whitehead and J. F. Lang. 170,899, Nov. 17.
Sandal. A. S. Weisz. 170,897, Nov. 17.
Sled. F. T. Paden and A. C. H. Weiss. 170,886–8, Nov. 17.
Stand, Wall. E. E. Svic. 170,894, Nov. 17.
Stapler and staple remover or similar article, Combined. H. W. Marano. 170,878, Nov. 17.
Stocking, Lady's. F. Hoffecker. 170,863, Nov. 17.
Television receiver. R. McGunnigle. 170,882, Nov. 17.
Tire. E. S. Ewart and D. S. Hackley. 170,854, Nov. 17.
Tire. E. W. Hawkinson. 170,862, Nov. 17.
Tire. P. N. Kaufman. 170,873, Nov. 17.
Valve, Thermostatic. E. B. Fox. 170,855, Nov. 17.
Waste disposer or the like, Food. R. A. Lambert. 170,874, Nov. 17.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 17TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerometer, Integrating. C. N. Hickman. 2,659,589, Nov. 17.
Acid dyestuffs of the anthraquinone series. S. von Allmen and H. Eggenberger. 2,659,736, Nov. 17.
Acrylonitrile, Preparing. R. A. Franz. 2,659,748, Nov. 17.
Adjustable trail frame holder. M. S. Swisher. 2,659,266, Nov. 17.
Advertising sign. E. J. Hill. 2,659,170–1; Nov. 17.
Aerial system. N. H. Clough. 2,659,819, Nov. 17.
Aeromagnetic prospecting, Method of and apparatus for. C. A. Heiland. 2,659,859, Nov. 17.
Aiming device for guns. V. E. Ericsson. 2,659,275, Nov. 17.
Air conditioning unit, Automobile. H. L. Coggburn. 2,659,214, Nov. 17.
Air cooling device, Brake drum. G. A. Lyon. 2,659,459–60, Nov. 17.
Aircraft, Convertible rotary wing. A. C. Peterson. 2,659,350, Nov. 17.
Aircraft surface with boundary layer control. E. A. Stalker. 2,659,552, Nov. 17.
Aircraft with quadricycle landing gear. W. H. Schlender. 2,659,555, Nov. 17.
Air volume control system and apparatus. C. Hotchkiss and J. A. Deubel. 2,659,535, Nov. 17.
Alarm system for oil and gas fired heating furnaces. E. Fiedler. 2,659,334, Nov. 17.
Alarm unit, Self-contained burglar. L. E. Davis. 2,659,333, Nov. 17.
Alloy: *See*—
Composite alloy.
Alkylene-bridged 5,6-dihydroxy-quinolines. W. A. Lott. 2,659,729, Nov. 17.
Allyl-type phosphinates and polymers of the same. D. Harman and A. R. Stiles. 2,659,714, Nov. 17.
Alpha-acylaminomethyl acrylonitriles and polymers thereof. H. W. Coover, Jr., and J. B. Dickey. 2,659,715, Nov. 17.
α-Aroyl-β-trichlormethyl-ethylenes. J. Druey. 2,659,757, Nov. 17.
Ammonium sulfate production. A. J. Shmidl. 2,659,659, Nov. 17.
Amplifier, Bidirectional transistor. H. L. Barney. 2,659,774, Nov. 17.
Amplifier for radio circuits, Compression. W. R. Schum. 2,659,777, Nov. 17.
Amplifier, Inverted grounded emitter transistor. H. L. Barney. 2,659,773, Nov. 17.
Amplifier, Nonsinusoidal. B. C. Fleming-Williams and A. H. A. Wynn. 2,659,816, Nov. 17.
Amplifying device, Pressure. A. L. Seljos. 2,659,381, Nov. 17.
Amusement device, Roundabout. E. C. Siverts. 2,659,601, Nov. 17.
Apparatus and method for making a photoconductive element. N. C. Anderson. 2,659,682, Nov. 17.
Apparatus for advancing and processing strands. A. L. Ewing. 2,659,225, Nov. 17.
Apparatus for applying hot melt adhesive to carton blanks. J. A. Zinn, Jr. 2,659,340, Nov. 17.
Apparatus for automatic balancing of rotating bodies. G. Darrieus. 2,659,243, Nov. 17.
Apparatus for avoiding hot starts in turbojet engine operation and for igniting fuel in the after-burner. W. O. Thompson. 2,659,199, Nov. 17.
Apparatus for breaking frangible suture tubes. G. H. Myrick. 2,659,253, Nov. 17.
Apparatus for controlling the movement and stopping of a band of material. A. M. Haley. 2,659,779, Nov. 17.
Apparatus for detecting flaws in metals. R. H. Winchester. 2,659,858, Nov. 17.
Apparatus for detecting recurrent circuit operation. A. E. Dodd. 2,659,880, Nov. 17.
Apparatus for economizing fuel and increasing power output of internal-combustion engines. E. N. Bosdet. 2,659,667, Nov. 17.
Apparatus for electrical measurement of thickness using current ratios. N. G. Branson. 2,659,862, Nov. 17.
Apparatus for electrical thickness measurement. N. G. Branson. 2,659,861, Nov. 17.
Apparatus for forming and assembling electrical terminals. L. P. Locke. 2,659,406, Nov. 17.
Apparatus for making concrete elements. H. P. Georgii and N. O. H. Engström. 2,659,123, Nov. 17.
Apparatus for making stress-strain tests. J. D. Lubahn. 2,659,232, Nov. 17.

Apparatus for measuring strip thickness. G. H. Rendel. 2,659,154, Nov. 17.
Apparatus for producing vibrations in liquid baths. A. Kärcher. 2,659,223, Nov. 17.
Apparatus for regulating the passage of fuel in carburetor manifolds. L. Troy. 2,659,352, Nov. 17.
Apparatus for securing a resilient tread to the bottom surface of flexible footwear. G. V. Walls. 2,659,094, Nov. 17.
Apparatus for separating slag from a slag containing molten metal. I. Harter, Jr., and T. W. Ratcliffe. 2,659,120, Nov. 17.
Apparatus for spraying attenuation material onto traveling wave tube helices. H. A. Schneider. 2,659,337, Nov. 17.
Arrangement for the formation and beating up of the wefts in circular weaving looms. J. Dunod. 2,659,393, Nov. 17.
Apparatus for treating and bagging perlite and the like. E. O. Howle, R. W. Jackson, and N. M. Foster. 2,659,521, Nov. 17.
Article transfer for carton taping machines. A. B. Rader. 2,659,474, Nov. 17.
Artificial snow composition, Self-spraying. R. J. Kerr. 2,659,704, Nov. 17.
Ash tray with spinning closure. L. H. Morin. 2,659,513, Nov. 17.
Asphalt spreading device. F. G. Gramatky. 2,659,625, Nov. 17.
Attachment for plastic enclosures. A. M. Schwartz and J. T. Willoughby. 2,659,462, Nov. 17.
Augmented thrust pulse jet pump or motor and creating augmented thrust or suction. F. E. Null. 2,659,202, Nov. 17.
Automatic poultry feed dispenser. L. Paparazzo and A. A. Bernartz. 2,659,346, Nov. 17.
Axle assembly. H. C. Keysor. 2,659,596, Nov. 17.
Axle support for automotive vehicle lifts, Hinged. R. W. Green. 2,659,455, Nov. 17.
Back rest. C. E. Burke. 2,659,420, Nov. 17.
Backstop for Miehle vertical printing presses, Adjustable tension. E. P. Valley. 2,659,599, Nov. 17.
Bag machine, Tubular. E. E. West. 2,659,328, Nov. 17.
Bailer for oil well bores. W. N. Sutliff. 2,659,442, Nov. 17.
Bar support for veneer lathes, Pressure. J. T. Latimer. 2,659,401, Nov. 17.
Bat grip, Baseball. G. J. Le Tourneau. 2,659,605, Nov. 17.
Bathtub, Portable. W. C. Westfahl. 2,659,090, Nov. 17.
Beach towel and beach bag, Combination. V. Kelsey. 2,659,404, Nov. 17.
Beading strip. L. Spraragen. 2,659,117, Nov. 17.
Bearing: *See*—
Thrust bearing.
Bearing assembly, Antifriction. B. W. Wheelis. 2,659,636, Nov. 17.
Bearing for compensating shaft misalignment, Roller. V. L. Barr. 2,659,637, Nov. 17.
Belt cable take-up and shock absorber, Safety. J. D. Smith, Sr. 2,659,573, Nov. 17.
Bench, Interlocking precast concrete. V. L. Holland. 2,659,422, Nov. 17.
Bending apparatus. F. J. Bird. 2,659,411, Nov. 17.
Benzoic esters. A. A. Schreiber. 2,659,689, Nov. 17.
Beta-(arylsulfonyl) carboxylic acids and salts thereof, Preparing. J. T. Gregory. 2,659,752, Nov. 17.
Beverage container. F. Jonker. 2,659,507, Nov. 17.
Bis-hydroxytetrahydroisoquinolyl-alkanes. P. N. Craig and F. P. Nabenhauer. 2,659,728, Nov. 17.
Bit: *See*—
Rock drill bit.
Bobbin. W. B. Broadbent and B. H. Sing. 2,659,547, Nov. 17.
Bolt clip for toilet tank and bowl combination. H. F. Smith. 2,659,088, Nov. 17.
Bolt-holding box wrench. J. Dillard. 2,659,258, Nov. 17.
Boride cathodes. J. M. Lafferty. 2,659,685, Nov. 17.
Bottle cap. Y. S. Fong. 2,659,509, Nov. 17.
Bottle cap. W. A. Rice. 2,659,511, Nov. 17.
Bottom bar organization for Venetian blinds. H. K. Lorentzen. 2,659,430, Nov. 17.
Box: *See*—
Display box. Plant box.
Electrical splice box. Polygonal box.
Brace, Adjustable. E. O. Hermann. 2,659,319, Nov. 17.
Brace, Packing. C. G. Robbins. 2,659,648, Nov. 17.

Bracket: *See*—
Clamp bracket.
Brake mechanism. E. G. Mueller. 2,659,456, Nov. 17.
Brassière. H. M. Ericson. 2,659,085, Nov. 17.
Brazing and brazing alloy. P. T. Stroup. 2,659,138, Nov. 17.
Breading machine for raw oysters. G. T. Harrison. 2,659,339, Nov. 17.
Broiler. E. P. Tyler. 2,659,296, Nov. 17.
Bromination of benzene-series hydrocarbons. L. K. Frevel and J. W. Hedelund. 2,659,760, Nov. 17.
Brushes, Making. W. F. Enchelmaier. 2,659,632, Nov. 17.
Bubble blowing gun. P. Kopf. 2,659,177, Nov. 17.
Building structure, Air wall. R. P. Carroll. 2,659,110, Nov. 17.
Burner control system. R. B. Matthews. 2,659,844, Nov. 17.
Burner with heat responsive fuel cutoff, Oil. W. G. Rowell. 2,659,426, Nov. 17.
Button remover. A. E. Ludgewait. 2,659,141, Nov. 17.
Butyrolactones, Producing. K. Folkers. 2,659,733, Nov. 17.
C clamp. O. C. Kindorf. 2,659,561, Nov. 17.
Cabinet for line-retrieving reeling apparatus. L. C. Rotter and A. D. Reisert. 2,659,546, Nov. 17.
Cable-feed mechanism for cable ships. M. Galin. 2,659,549, Nov. 17.
Cake filler. L. H. Browne. 2,659,320, Nov. 17.
Calcining apparatus. W. S. Bowen. 2,659,587, Nov. 17.
Calculator, Slide-type. F. H. Brickner. 2,659,532, Nov. 17.
Camera, Folding roll film. T. W. Clifford and J. Mills. 2,659,283, Nov. 17.
Cap: *See*—
Bottle cap. Container cap.
Cap feeding mechanism. E. O. Ninneman, G. L. Webster, J. Hohl, and O. Bjering. 2,659,522, Nov. 17.
Car for double-deck loading of automobiles, Freight. C. K. Steins and W. M. Keller. 2,659,318, Nov. 17.
Car stop. A. H. Genter. 2,659,316, Nov. 17.
Carbocyclic monocarboxylic acid salts of glyoxalidines. G. W. Luvisi. 2,659,731, Nov. 17.
Carbon black, Producing. G. L. Heller. 2,659,662–3, Nov. 17.
Carrier: *See*—
Luggage carrier.
Carrier for invalids, Three-legged. J. B. Conyers. 2,659,092, Nov. 17.
Carrier for mounting hammer mills and the like on tractors. E. M. Wetmore. 2,659,447, Nov. 17.
Cart, Folding baby. N. B. Williamson. 2,659,612, Nov. 17.
Cart, Weight indicating. S. O. Walding. 2,659,591, Nov. 17.
Carton, Automatic setup. K. T. Buttery. 2,659,526, Nov. 17.
Carton, Handled. J. A. McElwee. 2,659,524, Nov. 17.
Carton setup machine. R. J. Fahey. 2,659,279, Nov. 17.
Casing repair tool. D. W. Osmun. 2,659,440, Nov. 17.
Caster. R. A. Cramer. 2,659,100, Nov. 17.
Catalytic reforming of hydrocarbons in two stages utilizing a platinum-alumina-halogen catalyst composite. V. Haensel and C. G. Gerhold. 2,659,692, Nov. 17.
Ceiling, Combination luminous and acoustical. H. L. Beckwith. 2,659,808, Nov. 17.
Ceiling, Combination luminous and acoustical. G. P. Wakefield. 2,659,807, Nov. 17.
Cell diaphragm position indicator. A. R. Lee. 2,659,151, Nov. 17.
Cementing wells, Means for. S. B. Schnitter. 2,659,438, Nov. 17.
Centering device for well casings. R. C. Baker. 2,659,439, Nov. 17.
Centrifugal gas cleaner. R. C. Baird. 2,659,451, Nov. 17.
Centrifugal pump. G. H. Schaffer. 2,659,311, Nov. 17.
Centrifugal pump. A. Wahle. 2,659,312, Nov. 17.
Chair: *See*—
Collapsible reclining chair. Posture chair.
Chair. J. J. Waldheim and E. O. Bartolucci. 2,659,419, Nov. 17.
Chair with coordinated leg rest, Reclining. C. A. Hughes. 2,659,415, Nov. 17.
Character selecting mechanism. C. A. Macomic. 2,659,299, Nov. 17.
Chelate polymers from tetraketones. J. P. Wilkins and E. L. Wittbecker. 2,659,711, Nov. 17.
Chimney stack, especially for land vehicles and ships. J. Valensi. 2,659,293, Nov. 17.
Cigarette extinguisher. J. B. Fisher. 2,659,377, Nov. 17.
Circuit: *See*—
Recognizer circuit. Sweep linearity control circuit.
Selective receiving and amplifying circuit.
Circuit breaker, Electric. R. T. Casey. 2,659,783, Nov. 17.
Circuit for telephone systems, Ringing control. G. Elliott. 2,659,770, Nov. 17.
Circuit for vending machines, Control. L. Johnston. 2,659,471, Nov. 17.
Circuit having series-connected tubes, Amplifier. W. H. Coulter. 2,659,775, Nov. 17.
Clamp: *See*—
C clamp. Surgical clamp.
Index clamp.
Clamp bracket. C. I. Williams. 2,659,125, Nov. 17.
Clamp for holding dentures. R. W. Erickson and C. S. Olson. 2,659,146, Nov. 17.
Cleaner: *See*—
Centrifugal gas cleaner.
Clip: *See*—
Pin curl clip.
Closure. A. E. Smith. 2,659,370, Nov. 17.
Clutch: *See*—
Positive engaging clutch.
Clutching device for windshield wipers. H. A. Chivers. 2,659,465, Nov. 17.
Coating liquid applicator. J. A. Kucher. 2,659,343, Nov. 17.
Code following relay. A. Hufnagel. 2,659,786, Nov. 17.
Collapsible reclining chair. S. Heyman. 2,659,416, Nov. 17.
Collector plug for bus bar duct systems. A. H. Veitch. 2,659,874, Nov. 17.
Combustion apparatus for furnaces. W. Ferguson. 2,659,424, Nov. 17.
Combustion chamber of internal-combustion engines. W. Layland. 2,659,355, Nov. 17.
Combustion control system. G. A. Peple, Jr. 2,659,324, Nov. 17.
Commode top cover holder. L. W. Boone. 2,659,091, Nov. 17.
Compacting machine, Asphalt. J. H. Lucas. 2,659,281, Nov. 17.
Composite alloy. T. E. Leontis and R. S. Busk. 2,659,129–37, Nov. 17.
Composition and production of alloys. F. A. Miller. 2,659,669, Nov. 17.
Composition for manufacture of sand cores. J. B. Tuttle. 2,659,654, Nov. 17.
Composition for testing for glucose in biological fluids. R. M. Carson and R. R. Saeks. 2,659,700, Nov. 17.
Compotier. W. A. Meier. 2,659,222, Nov. 17.
Compound pressure pump. H. J. Framhein. 2,659,307, Nov. 17.
Compounding process and product thereof from a mixture of a phenol-formaldehyde resin, butadieneacrylonitrile copolymer, and a nonsolvent hydrocarbon plasticizer. C. F. Fisk and A. W. Meyer. 2,659,706, Nov. 17.
Compressor and drive. H. J. Wood. 2,659,247, Nov. 17.
Concrete form for use with plumbing installations, Temporary. R. E. Henry. 2,659,124, Nov. 17.
Condensate trap. A. Gaydasch. 2,659,452, Nov. 17.
Condensation products of the benzanthrone series and their preparation. J. M. Straley. 2,659,735, Nov. 17.
Confection feeding and releasing machine. E. J. Otken. 2,659,503, Nov. 17.
Connecting device for electron tubes. O. Sternbeck. 2,659,814, Nov. 17.
Connector: *See*—
Indentable jack-type connector. Loom harness connector.
Connector and support for tables. E. L. Lindman. 2,659,640, Nov. 17.
Connector for braces, Multiple point. E. B. Capra. 2,659,618, Nov. 17.
Connector for range receptacles, Wire. L. M. Sheldon. 2,659,877, Nov. 17.
Connector hood assembly, Electrical. L. Gilbert. 2,659,872, Nov. 17.
Connector strip having laterally displaced strip feeding edges, Electrical. Q. Berg. 2,659,871, Nov. 17.
Construction for electric heaters. B. G. Olving. 2,659,798, Nov. 17.
Container: *See*—
Beverage container.
Container. J. Miller. 2,659,515, Nov. 17.
Container and dispenser therefor having a cutter-valve for opening the container, Paste type products. C. H. Reinhardt, Jr. 2,659,517, Nov. 17.
Container cap. T. A. Nygaard. 2,659,508, Nov. 17.
Continuously variable resistor. W. J. Mairs. 2,659,794, Nov. 17.
Control system for cloth laying machines. W. E. and N. N. Shaak. 2,659,597, Nov. 17.
Control system for rocket motors. F. B. Halford, A. V. Cleaver, and E. B. Dove. 2,659,197, Nov. 17.
Control system for tandem rotor helicopters. H. S. Campbell. 2,659,551, Nov. 17.
Conveyer for grain combines, Straw. D. P. Keith. 2,659,374, Nov. 17.
Conveyer system, Endless. G. S. and J. C. Lawson. 2,659,477, Nov. 17.
Conveying mechanism. W. B. Lyon. 2,659,647, Nov. 17.
Cooking apparatus. H. J. and R. H. Garrett. 2,659,802, Nov. 17.
Cooler: *See*—
Milk cooler.
Cooling means for the rotors of gas turbine power plants. N. C. Price. 2,659,529, Nov. 17.

Correction and make-up of type matter for planographic printing processes. H. R. Freund. 2,659,282, Nov. 17.
Corrosion preventing agent. L. A. Mikeska. 2,659,705, Nov. 17.
Coughing valve. P. M. W. Bruckmann. 2,659,364, Nov. 17.
Counterbalance pump. W. K. Richardson. 2,659,315, Nov. 17.
Coupling: *See*—
Flexible coupling. Universal coupling.
Coupling and control operated thereby, Overload release. J. M. Unk. 2,659,469, Nov. 17.
Coupling and vibration dampener, Combined resilient. F. M. Guy. 2,659,244, Nov. 17.
Cover: *See*—
Folding hat cover.
Crop shredder, Farm row. J. Haban. 2,659,188, Nov. 17.
Culinary device. S. F. Conkle. 2,659,144, Nov. 17.
Cultivator. J. S. Glomb. 2,659,290, Nov. 17.
Cultivator, Pivoted blade. G. A. Burr. 2,659,285, Nov. 17.
Curing agents for chlorosulfonated polyethylene. O. G. Youngquist, M. A. Smook, and R. E. Brooks. 2,659,707, Nov. 17.
Cushion or the like. O. A. Berman. 2,659,418, Nov. 17.
Cutter: *See*—
Inside pipe cutter.
Cutting and gripping mechanism for printing machines. W. F. Huck. 2,659,437, Nov. 17.
Cutting machine, Tape. M. S. Mansson. 2,659,435, Nov. 17.
Cylinder valve. A. G. Johnson and T. A. St. Clair. 2,659,565, Nov. 17.
Cylinder with toggle lock, Differential. G. B. Marsden. 2,659,207, Nov. 17.
Damper, Refractory. F. C. Holbrook. 2,659,361, Nov. 17.
Davit, Ship's. H. G. Taylor. 2,659,093, Nov. 17.
Declipping machine, Ammunition. F. E. Costello. 2,659,263, Nov. 17.
Dehorning tool. V. L. Fender. 2,659,142, Nov. 17.
Dehydrators, Making. J. D. Baldwin, Jr. and J. E. Szitar. 2,659,128, Nov. 17.
Dehydrogenation of coumaranes. T. A. Geissman. 2,659,734, Nov. 17.
Delivering lime and manure from motor trucks and the like, Means for. H. J. B. Topp. 2,659,608, Nov. 17.
$\Delta^{5,7}$-allopregnenes and process. G. Rosenkranz, S. Kaufman, and J. Pataki. 2,659,742, Nov. 17.
Demountable closure. L. D. Cobb. 2,659,617, Nov. 17.
Dental inlay, Preformed. M. B. Gilliman. 2,659,145, Nov. 17.
Dentures, Making. A. G. Leicht. 2,659,106, Nov. 17.
Depositing a weighed fill in a receptacle, Method and apparatus for. D. E. and W. S. Cloud. 2,659,562, Nov. 17.
Derrick adaptable to the frames of transportation vehicles, Hoisting. M. E. Pelaez. 2,659,501, Nov. 17.
Desk, School. E. J. Kump, Jr. 2,659,649, Nov. 17.
Desk with a shiftable top section. I. R. Cornish. 2,659,645, Nov. 17.
Detection of stoppage in the flow of divided material. A. Bogot and H. A. Bishop. 2,659,881, Nov. 17.
Determining the velocity and acceleration characteristics of moving objects. F. E. Tuttle and W. C. Newcomb. 2,659,264, Nov. 17.
Developing electrostatic images. H. E. Copley. 2,659,670, Nov. 17.
Device for applying threaded screws or bolts. J. D. Bates. 2,659,255, Nov. 17.
Device for cleaning dentures. A. P. Jackson. 2,659,380, Nov. 17.
Device for detecting blown fuses. A. Lang. 2,659,789, Nov. 17.
Device for loading the magazines of automatic guns. G. D. Capito. 2,659,173, Nov. 17.
Device for packaging tire casings and the tire casing assemblies. C. C. Averill. 2,659,484, Nov. 17.
Device for treating with disinfectant the mouthpieces of telephones and like apparatus. V. Fraschetti. 2,659,778, Nov. 17.
Diacyl cyanides, Preparing. L. F. Arnold. 2,659,749, Nov. 17.
Diammonium salts. F. Häfliger and E. Girod. 2,659,756, Nov. 17.
Dielectric wall for transmission of centimetric radiation. E. B. McMillan, H. Leaderman, and R. M. Redheffer. 2,659,884, Nov. 17.
Disintegrating mechanism, Side board-equipped. S. Leven. 2,659,586, Nov. 17.
Disk attachment for agricultural implementa, Reversible. W. H. Tanke. 2,659,291, Nov. 17.
Dispenser: *See*—
Automatic poultry feed dispenser. Liquid dispenser.
Dispensing assembly for envelope handling machines, Glue. W. R. Williamson. 2,659,280, Nov. 17.
Dispensing mechanism, Automatic. W. E. Saxe. 2,659,563, Nov. 17.
Display box. W. H. Swan. 2,659,490, Nov. 17.
Distributing insecticides or fungicides and steam jet-driven helicopter for performing same. F. L. U. Doblhoff. 2,659,556, Nov. 17.
Distributing viscous liquids and heavy slurries, Method and apparatus for. J. W. Angstadt. 2,659,630, Nov. 17.
Door: *See*—
Freely translatable sliding door.
Door for transit concrete mixers, Charging. R. M. Henderson. 2,659,514, Nov. 17.
Door seal, Magnetic. L. L. Anderson and N. S. Waring. 2,659,114–15, Nov. 17.
Door seal, Magnetic. L. L. Anderson, N. S. Waring, and A. W. Korb. 2,659,118, Nov. 17.
Door seal, Magnetic. A. W. Korb. 2,659,116, Nov. 17.
Draft equalizer for tractor implement hitches. H. Metzger. 2,659,286, Nov. 17.
Drag weight for covering and packing planted seed. H. P. Holman. 2,659,289, Nov. 17.
Drainage pile. A. P. Jourdain. 2,659,208, Nov. 17.
Drawbar assembly. R. C. Fischer. 2,659,610, Nov. 17
Drawbench. A. Kreidler. 2,659,480, Nov. 17.
Dressing helical grinding wheels, Method and apparatus for. J. J. Osplack. 2,659,337, Nov. 17.
Drier: *See*—
Turbulent flow, restricted passage drier.
Drill jig. J. H. Wheeler. 2,659,251, Nov. 17.
Drive mechanism for magnetic recorders. M. Camras. 2,659,541, Nov. 17.
Drive mechanism, Irreversible. L. Ochtman. 2,659,466, Nov. 17.
Drive torque limiting device. R. E. Cherry. 2,659,220, Nov. 17.
Drum file, Selectively operated rotary. C. E. Attwood. 2,659,646, Nov. 17.
Dual hydraulic swivel joint. T. H. McClain. 2,659,615, Nov. 17.
Dumper, Rotary car. J. H. Kincaid. 2,659,500, Nov. 17.
Duration ratio regulator. R. R. Gannaway. 2,659,856, Nov. 17.
Dyestuff intermediates of the anthraquinone series. A. Peter and E. Wydler. 2,659,737, Nov. 17.
Dynamometer apparatus. L. W. Fagg and D. O. Johnson. 2,659,233, Nov. 17.
Effervescent barium sulfate-pectin X-ray contrast composition. E. H. Slaybaugh. 2,659,690, Nov. 17.
Egg room equipment, Continuous feed. E. W. Fahey and G. S. Wolf. 2,659,473, Nov. 17.
Electric discharge device. E. Germer. 2,659,835–6, Nov. 17.
Electric discharge device. P. Lemaigre-Voreaux. 2,659,834, Nov. 17.
Electric switch. R. H. Boardman. 2,659,792, Nov. 17.
Electrical conductor for discharge devices. W. T. Anderson, Jr. 2,659,183, Nov. 17.
Electrical conduit bending and straightening device. F. A. Duffy, Jr. 2,659,410, Nov. 17.
Electrical control apparatus. F. C. McNicol. 2,659,843, Nov. 17.
Electrical dry shaver. G. W. Davison. 2,659,139, Nov. 17.
Electrical fixture. J. B. Cataldo. 2,659,873, Nov. 17.
Electrical gating circuits. D. L. Curtis. 2,659,815, Nov. 17.
Electrical splice box. J. L. Dunn. 2,659,765, Nov. 17.
Electrifying pulverulent materials, Means for. P. Hampe. 2,659,841, Nov. 17.
Electrocardiovectographic device. M. Brosselin. 2,659,363, Nov. 17.
Electrometer, Snap action. T. A. Rich. 2,659,865, Nov. 17.
11 alpha, 17 alpha, 21-trihydroxyallopregnane and its esters. W. P. Schneider. 2,659,744, Nov. 17.
11 alpha, 17 alpha, 21-trihydroxypregnane-3,20-dione. H. C. Murray and D. H. Peterson. 2,659,743, Nov. 17.
11-keto-17 alpha-progesterone. H. C. Murray and D. H. Peterson. 2,659,741, Nov. 17.
Enclosure device for pet animals. G. H. Herbert. 2,659,344, Nov. 17.
Engine: *See*—
Internal-combustion engine.
Engine for aircraft propulsion, Explosion-cycle inducer-disk valve turbojet. H. A. Cook. 2,659,198, Nov. 17.
Engine mounting device, Outboard. J. E. Gillespie. 2,659,558, Nov. 17.
Esterifying carbocyclic carboxylic acids. A. Bell and M. B. Knowles. 2,659,750, Nov. 17.
Esters of nitroacetic acid. H. B. Hass and H. Feuer. 2,659,751, Nov. 17.
Excavator, Marine. P. Notarbartolo and C. Poledrelli. 2,659,211, Nov. 17.
Explosive atmosphere test chamber. M. E. Storer. 2,659,235, Nov. 17.
Extracorporeal circulation device. J. H. Gibbon, Jr., G. V. A. Malmros, J. R. Engstrom, and E. A. Barber, Jr. 2,659,368, Nov. 17.
Eyeglass frame construction, Combination plastic and metal. C. Castelli. 2,659,269, Nov. 17.
Fabric and preparing the same, Gas protective. H. A. Weldon. 2,659,681, Nov. 17.
Fabrication of light metals. E. M. Kipp. 2,659,252, Nov. 17.
Fare apparatus, Transportation. P. E. Du Pont. 2,659,470, Nov. 17.

Fastening device. J. F. Golubics. 2,659,122, Nov. 17.
Faucet fixture, Fabricated. H. Harvey. 2,659,389, Nov. 17.
Feed preservation. A. C. Eaves. 2,659,161, Nov. 17.
Feed water regulation. D. K. Swartwout, III and R. L. Gilliland. 2,659,350 Nov. 17.
Feeding mechanism for wood pulp grinders. J. J. Keon. 2,659,537, Nov. 17.
Feeding mechanisms for sewing machines. N. Knaus. 2,659,330, Nov. 17.
Fence, Permanent picket. B. Clendenin. 2,659,578, Nov. 17.
Filing device. E. J. Czerniawski. 2,659,512, Nov. 17.
Firearm cocking mechanism. I. Murray. 2,659,276, Nov. 17.
Fire extinguisher structure. C. L. Zabriskie. 2,659,443, Nov. 17.
Firing mechanism for pistols. R. D. Parry. 2,659,172, Nov. 17.
Fishing line actuator. D. D. Leach. 2,659,174, Nov. 17.
Fishing lure. H. R. Wenger. 2,659,176, Nov. 17.
Fishing reel. R. P. Hoke and W. E. Brown. 2,659,545, Nov. 17.
Flame holder and fuel distributing mechanism for ram-jet engines. M. Bolanovich. 2,659,195, Nov. 17.
Flatiron pressing stocking. H. Weldon. 2,659,167, Nov. 17.
Flat tire signal. R. B. Anderson. 2,659,781, Nov. 17.
Flexible coupling. E. F. Riopelle. 2,659,218, Nov. 17.
Floor covering. M. B. T. Moore. 2,659,687, Nov. 17.
Fluid pressure responsive feed control valve. T. M. Lowe. 2,659,384, Nov. 17.
Fluoride-free uranium oxide, Production of. R. G. Sweet. 2,659,655, Nov. 17.
Flushing device for water closets. C. Griffon. 2,659,089, Nov. 17.
Fly tier's bobbin. R. P. Morgester. 2,659,548, Nov. 17.
Foam forming device. N. Sandor. 2,659,582, Nov. 17.
Folding hat cover. W. S. Jones. 2,659,481, Nov. 17.
Food, Infant. H. W. Howard and J. F. Muller. 2,659,676, Nov. 17.
Food masher. G. M. Jones. 2,659,403, Nov. 17.
Food warming means. H. O. Strehl. 2,659,362, Nov. 17.
Forming flake ice, Method of and means for. G. M. Lees. 2,659,212, Nov. 17.
Forming stylus-like articles from corundum or spinel, Process of and apparatus for. D. M. Yenni and T. F. Hart. 2,659,181, Nov. 17.
Fountain, Automatic poultry drinking. J. M. Wear, Jr. 2,659,347, Nov. 17.
Fractional crystallization method. L. K. Frevel and L. J. Kressley. 2,659,761, Nov. 17.
Frame structure for conveyers, Supporting. E. F. Koerber. 2,659,476, Nov. 17.
Framing of metal profiles particularly for movable and glazed windows and doors. E. S. Persson. 2,659,463, Nov. 17.
Freely translatable sliding door. B. J. Triller. 2,659,111, Nov. 17.
Frequency modulation repeater. J. C. Schelleng. 2,659,813, Nov. 17.
Friction disk, Lubricated. H. F. Hobbs. 2,659,468, Nov. 17.
Friction latch. H. Ter Meer. 2,659,620, Nov. 17.
Fuel injection for internal-combustion engines. G. M. Holley, Jr. 2,659,309, Nov. 17.
Fuel supply means for jet engine afterburners, Centrifugal. W. H. Brown. 2,659,196, Nov. 17.
Furnace. P. Blanchard. 2,659,588, Nov. 17.
Furnace and process for electrically melting glass. W. König. 2,659,764, Nov. 17.
Furnace roof. F. Hönig. 2,659,327, Nov. 17.
Fuse and manufacturing same, Cartridge-type electrical. A. P. Jurgensen. 2,659,790, Nov. 17.
Game apparatus. W. J. Albee. 2,659,163, Nov. 17.
Garage, All ramp. P. H. Burn and A. G. Lorimer. 2,659,109, Nov. 17.
Garment. E. F. McGrath. 2,659,086, Nov. 17.
Garment, Body supporting. A. Trznadel. 2,659,084, Nov. 17.
Gas turbine combustion chamber with provision for turbulent mixing of air and fuel. J. C. Krejci. 2,659,201, Nov. 17.
Gas turbine compressor system. N. C. Price. 2,659,528, Nov. 17.
Gas valve. E. E. Hayden. 2,659,385, Nov. 17.
Gasifying coals. B. J. Mayland. 2,659,668, Nov. 17.
Gate: *See*—
Tubular gate.
Gauge: *See*—
Steady-rest centering gauge.
Gauge for internal-combustion engine carburetors, Fuel. R. H. Hieger. 2,659,152, Nov. 17.
Ganging device for V type cylinder blocks, Size. W. F. Aller. 2,659,157, Nov. 17.
Gear: *See*—
Steering gear.
Gear pump. W. H. Wood. 2,659,314, Nov. 17.
Glass-cutting mechanism, Bulb-edge. L. Giulioli and T. A. Insolio. 2,659,148, Nov. 17.
Glue-applying apparatus for packaging machines. R. E. Taggart. 2,659,342, Nov. 17.
Gluing assembly for packaging machines. R. E. Taggart. 2,659,341, Nov. 17.
Governor for liquid fuel injection pumps. W. E. W. Nicolls. 2,659,354, Nov. 17.
Grab block for fork lift trucks. V. L. Watkins. 2,659,506, Nov. 17.
Grinder for engine cylinders, Ridge. M. S. Burkholder. 2,659,186, Nov. 17.
Grinding wheel truing apparatus. O. E. Hill. 2,659,358–9, Nov. 17.
Guanidine salts of pentachlorophenol. M. W. Harman. 2,659,755, Nov. 17.
Guard for portable power saws. J. V. Doug. 2,659,399, Nov. 17.
Guard for saws. C. C. Petersen. 2,659,400, Nov. 17.
Guard for trouble lamps, Separable. B. and I. Fineman. 2,659,810, Nov. 17.
Gun construction for gas blast spraying heat-fusible materials. C. K. Wilson. 2,659,623, Nov. 17.
Gun sight mount, Detachable. J. Feerick. 2,659,150, Nov. 17.
Hammer and carriage therefor, Drop. E. E. Dorkins. 2,659,583, Nov. 17.
Hammer, Self-propelled hydraulic. E. E. Dorkins. 2,659,584, Nov. 17.
Handle: *See*—
Paper cup handle.
Hanger: *See*—
Laundry hanger.
Hanger with curtain rod attachments, Curtain. A. Nobereit. 2,659,492, Nov. 17.
Harpoon. H. L. Trautmann. 2,659,273, Nov. 17.
Harvesting machine and separating conveyer therefor, Potato. C. Berg, H. Carlsson, and R. V. Ekman. 2,659,189, Nov. 17.
Hassock and table, Convertible. P. Hoar. 2,659,414, Nov. 17.
Hatrack for automobiles. W. C. Searles. 2,659,489, Nov. 17.
Heat exchanger. M. Frenkel. 2,659,392, Nov. 17.
Heat exchanger, Plate. R. P. L. Hytte. 2,659,580, Nov. 17.
Heater: *See*—
Sheathed resistor electric Water heater. heater.
Heating element, Electric. M. Ireland. 2,659,799, Nov. 17.
Heating element, Electric. W. H. Zander. 2,659,800, Nov. 17.
Heating system and control therefor. A. E. Armstrong. 2,659,536, Nov. 17.
Heating system, Radiant. A. H. Mayes. 2,659,803, Nov. 17.
Hem marker, Mechanical. G. F. Halpin and E. Lazaroff. 2,659,147, Nov. 17.
High-temperature polymerization of styrene. H. F. Park. 2,659,717, Nov. 17.
Holder: *See*—
Adjustable trail frame holder. Commode top cover holder. Rewind core holder.
Hollow drive shaft construction for turbine driven compressors. M. R. Garnier and J. C. J. Poujade. 2,659,530, Nov. 17.
Honing machine. H. S. Indge. 2,659,185, Nov. 17.
Hubcap with locking means. C. T. Skillman and M. Kistner. 2,659,229, Nov. 17.
Humidifying system for dust and fume collection by electrical precipitation. H. E. Kaiser and W. C. Campbell. 2,659,449, Nov. 17.
Hydraulic control system for articulated locomotives and the like, M. G. Carlson. 2,659,203, Nov. 17.
Hydraulic fluid of polyhydric alcohol and trialkyl phosphate. M. F. George, Jr., and P. M. Reedy, Jr. 2,659,699, Nov. 17.
Hydraulic power control unit. B. N. Ashton. 2,659,205, Nov. 17.
Hydraulic power system. H. G. Conway, G. Orloff, and R. Fairclough. 2,659,204, Nov. 17.
Hydraulic thrust balancing device. A. A. Rubbra and L. Haworth. 2,659,240, Nov. 17.
Igniter, Oil burner electric. A. L. Judson. 2,659,428, Nov. 17.
Ignition timing control means for internal-combustion engines. M. Mallory. 2,659,353, Nov. 17.
Impregnating a synthetic rubber to form a sponge rubber and the article produced thereby. H. A. Toulmin, Jr., and W. R. Stauffer. 2,659,703, Nov. 17.
Indentable jack-type connector. H. P. Dupre and I. F. Matthysse. 2,659,876, Nov. 17.
Independent synchronization. H. R. Nilsson and S. I. Truilsson. 2,659,239, Nov. 17.
Index clamp. C. O. Rothweiler. 2,659,149, Nov. 17.
Indicating plate and pull wire, Combined. J. R. English. 2,659,335, Nov. 17.
Indicator: *See*—
Cell diaphragm position indicator.
Indicator for fork-lift trucks, Load weight. C. L. Wetsel. 2,659,592, Nov. 17.
Inorganic fluorine-containing compounds of aluminum, Making. W. A. La Lande, Jr., and I. Mockrin. 2,659,657, Nov. 17.
Inside pipe cutter. D. W. Osmun. 2,659,434, Nov. 17.
Instrument, Drawing. G. Lotter. 2,659,155, Nov. 17.

Instrument for indicating permeability. C. A. Anderson. 2,659,857, Nov. 17.
Instrument, Well surveying. G. A. Smith. 2,659,160, Nov. 17.
Insulator mounting. C. J. Fot. 2,659,766, Nov. 17.
Internal-combustion engine. C. C. Chronic and C. A. Shaffer. 2,659,351, Nov. 17.
Ion therapy device comprising a hand electrode. G. J. C. Andersen. 2,659,372, Nov. 17.
Isodurene manufacture. A. P. Lien and D. A. McCaulay. 2,659,762, Nov. 17.
Jar and equalizer, Combination. D. M. Linney. 2,659,576, Nov. 17.
Jig for mortising doors and jambs. C. C. Jarrett and M. N. Griswold. 2,659,159, Nov. 17.
Joint: *See*—
Dual hydraulic swivel joint.
Joint for transmission shafts of motor vehicles, Resilient. A. Mosso and V. Montanari. 2,659,219, Nov. 17.
Juicer, Drum type orange. K. K. Hudson. 2,659,298, Nov. 17.
Keyboard, Touch-responsive. E. J. Quinby and W. S. Oliwa. 2,659,533, Nov. 17.
Key ejecting device. C. Glubiak. 2,659,231, Nov. 17.
Kicking tee, Extra point and field goal. N. E. McGowen. 2,659,604, Nov. 17.
Knee action dope hopper finger. E. R. Merritt. 2,659,103, Nov. 17.
Knife, Stencil cutting. H. L. Baker. 2,659,143, Nov. 17.
Label, Medicine bottle. J. S. Cook and D. V. Whitney, Jr. 2,659,614, Nov. 17.
Laminated glass structure. G. B. Watkins. 2,659,686, Nov. 17.
Lamp shade, Electric. E. P. Mella. 2,659,809, Nov. 17.
Latch: *See*—
Friction latch.
Latch and interlock. R. W. Wolf. 2,659,782, Nov. 17.
Latch for counterbalanced elevator doors. P. R. Doeg and A. W. Croker. 2,659,457, Nov. 17.
Latch for wrenches, Sliding jaw. R. T. Jones. 2,659,259, Nov. 17.
Latch mechanism. E. B. Jacobson. 2,659,621, Nov. 17.
Latch mechanism, Parachute pack. G. L. Fogal and A. M. Mitnick. 2,659,557, Nov. 17.
Launching airplanes and other flying bodies, Means for. B. N. Wallis. 2,659,553, Nov. 17.
Laundry hanger. E. K. Ralston. 2,659,493, Nov. 17.
Lead screw support for straight line computers. B. S. Maximoff. 2,659,634, Nov. 17.
Leuco-indanthrone sulfuric esters, Preparation of. W. B. Hardy and R. B. Fortenbaugh. 2,659,727, Nov. 17.
Leveling machine, Land. B. M. Mathias. 2,659,166, Nov. 17.
Lifting apparatus, Tractor. L. H. Steer. 2,659,572, Nov. 17.
Light beam stabilizing system. W. S. Elliott. 2,659,828, Nov. 17.
Light meter for microphotography. C. G. Grand. 2,659,268, Nov. 17.
Lighting control unit, Street. E. H. Yonkers, Jr. 2,659,840, Nov. 17.
Lightning arrester. S. Teszner. 2,659,842, Nov. 17.
Linear polyamides, Preparing. E. E. Magat. 2,659,713, Nov. 17.
Lining for earth constructions. E. Stengel and G. Klotz. 2,659,210, Nov. 17.
Liquid dispenser. W. P. C. Smith. 2,659,516, Nov. 17.
Liquid fuel injection means for prime movers. R. J. Ifield. 2,659,382, Nov. 17.
Load retaining strip. H. C. Lau. 2,659,432, Nov. 17.
Loading mechanism, Dispensing machine. E. L. Hadden. 2,659,644, Nov. 17.
Loading station, Automatic car. T. F. McCarthy. 2,659,498, Nov. 17.
Locking system, Coincidental door. B. J. Craig. 2,659,230, Nov. 17.
Loom harness connector. F. H. Kaufmann. 2,659,394, Nov. 17.
Loom shuttle, Automatically threading. W. L. McHargue. 2,659,395, Nov. 17.
Loose-leaf post binder. W. E. Schroer. 2,659,373, Nov. 17.
Lubricating device for the loopers of sewing machines. A. Mousset. 2,659,331, Nov. 17.
Lubricating greases. J. Faust. 2,659,695, Nov. 17.
Lubricating oil compositions containing alkyl diphenylalkane monosulfonates. S. B. Lippincott, F. N. Baumgartner, and H. L. Yowell. 2,659,694, Nov. 17.
Lubricating oil containing a metal salt of a condensation product of an alkyl substituted phenol and an olefin oxide. L. L. Neff. 2,659,696, Nov. 17.
Lubricating oils containing an acyloxyacetic acid as a rust inhibitor. S. J. Wayo. 2,659,697, Nov. 17.
Luggage carrier. G. A. Sweetman. 2,659,464, Nov. 17.
Luminaire for elongated tubular lamps. G. P. Wakefield. 2,659,811, Nov. 17.
Lure, Variable multipurpose. W. D. Carpenter. 2,659,175, Nov. 17.
Machine for coating raw oysters. G. T. Harrison. 2,659,338, Nov. 17.
Machine for cutting or finishing gear teeth and analogous formations. E. W. Miller. 2,659,277, Nov. 17.
Machine for forming annular sheet metal workpieces. J. G. Kay. 2,659,407, Nov. 17.
Machine for testing characteristics of gear cutters, gears, and the like. N. L. Cobb. 2,659,158, Nov. 17.
Machine for unwinding remnants of yarn from bobbins. H. Balken. 2,659,126, Nov. 17.
Magnesium hydroxide, Production of. H. K. Keitel. 2,659,661, Nov. 17.
Magnetic attaching means for ornamental objects. R. F. Brennan. 2,659,169, Nov. 17.
Magnetic core and manufacturing same. G. Berge. 2,659,698, Nov. 17.
Maintaining activity of cuprous oxide catalyst in oxidation of olefins. K. D. Detling and T. Skei. 2,659,758, Nov. 17.
Manufacture of alumina, Method and apparatus for the. A. Sablé. 2,659,660, Nov. 17.
Measuring apparatus. J. C. Mouzon. 2,659,848, Nov. 17.
Measuring apparatus, Temperature. T. R. Harrison. 2,659,234, Nov. 17.
Measuring device, Electrostatic induction voltage. T. A. Rich and W. J. Morlock. 2,659,864, Nov. 17.
Measuring device, Potential. A. N. Stanton. 2,659,863, Nov. 17.
Measuring moisture content, Method and apparatus for. W. M. Breazeale. 2,659,860, Nov. 17.
Measuring system. C. A. Vossberg, Jr. 2,659,823, Nov. 17.
Mechanical movement for screening machines. W. R. Caler. 2,659,487, Nov. 17.
Mechanism for controlling the stability of material-handling machines. W. M. Shaffer. 2,659,505, Nov. 17.
Metal fluorides, Producing. W. A. La Lande, Jr. and I. Mockrin. 2,659,658, Nov. 17.
Milk cooler. J. R. Boyle. 2,659,579, Nov. 17.
Mine skip. L. C. Erickson. 2,659,502, Nov. 17.
Mining machine hydraulic control system and master safety valve therefor. M. G. Carlson. 2,659,206, Nov. 17.
Mirror having a repolishable light transmitting plastic cover disk, Dental. T. F. Goldmann. 2,659,272, Nov. 17.
Mixed anhydrides between carboxylic and substituted arsenous acids. J. R. Vaughan, Jr. 2,659,745, Nov. 17.
Mixed anhydrides of phosphite esters and preparing the same. R. W. Young. 2,659,747, Nov. 17.
Mixed aromatic-aliphatic ethers, Preparation of. R. E. Plump. 2,659,753, Nov. 17.
Mixtures of plasticized vinyl resin and thermoset phenol-aldehyde resin and making the same. S. E. Berger and K. M. Webb. 2,659,708, Nov. 17.
Mode filtered cutoff attenuator. A. E. Laemmel. 2,659,870, Nov. 17.
Modulation by magnetic control of super conductors. E. A. Eriesson, A. O. Jörgensen, and S. L. Överby. 2,659,868, Nov. 17.
Moistening mechanism for rotary duplicating machines. H. P. Kell. 2,659,304, Nov. 17.
Motor and clutch, Combined. J. A. Mason and R. C. Kraeplin. 2,659,830, Nov. 17.
Motor construction, Single bearing. M. E. Lautner 2,659,831, Nov. 17.
Motor control apparatus, Automatic cam cutting. F. W. Cunningham. 2,659,849, Nov. 17.
Motor control system and the like. W. E. Phillips and R. H. Huddleston, Jr. 2,659,850, Nov. 17.
Motor-cultivator with trailing implement and operator seat. M. de Jouette. 2,659,287, Nov. 17.
Motor device, Electric impulse. M. Morrison. 2,659,853, Nov. 17.
Motor drive system, Constant speed. J. H. Trevitt. 2,659,852, Nov. 17.
Mounting: *See*—
Insulator mounting.
Mounting structure for radio-frequency seaming machines, Electrode. H. Hacklander. 2,659,806, Nov. 17.
Mouthpiece for smoking utensils. I. Florman. 2,659,376, Nov. 17.
Mouthpiece to be worn by athletes. A. J. Savarese. 2,659,366, Nov. 17.
Mower and leaf mulcher, Combined grass. W. F. Miller and H. E. Kroll. 2,659,191, Nov. 17.
Mower interconnecting means, Gang. H. Imbt. 2,659,190, Nov. 17.
Multicolor rotary intaglio, letterpress, and offset printing press. G. Glori. 2,659,305, Nov. 17.
Musical instrument, Portable. F. H. Magnus and E. J. Ens. 2,659,261, Nov. 17.
Nozzle, Centrifugal liquid. W. L. Wilmes. 2,659,631, Nov. 17.
Nozzle having pivoted cleaning element, Vacuum cleaner. C. E. Meyerhoefer. 2,659,098, Nov. 17.
Nozzle head element, Oil burner. I. M. Blther. 2,659,427, Nov. 17.
1,5 - dihydroxy - 8 - halo - 4 - aminoanthraquinone compounds. J. B. Dickey and E. B. Towne. 2,659,740, Nov. 17.
1-hydroxy-4-β-cyanopropylaminoanthraquinone and preparing same. J. B. Dickey. 2,659,739, Nov. 17.
1-nitroanthraquinone-3-carboxylic acid and producing it. O. Schlichting, E. Jutz and W. Rohland. 2,659,738, Nov. 17.
Orienting and scanning support for betatrons. D. T. Scag and D. K. Getzlaff. 2,659,827, Nov. 17.

Oscillator, Frequency modulated. H. R. Mathwich. 2,659,867, Nov. 17.
Oxidation process. C. S. Morgan, Jr., and N. C. Robertson. 2,659,746, Nov. 17.
Packaging empty bags. M. C. Barnes. 2,659,187, Nov. 17.
Padlock having gravity actuated detent. W. G. Ducharme. 2,659,228, Nov. 17.
Pan turning mechanism. I. M. Archer. 2,659,475, Nov. 17.
Panty, Drop-seat. P. Blatt. 2,659,367, Nov. 17.
Paper cup handle. J. G. Liebenow. 2,659,527, Nov. 17.
Pellet implanter. M. G. Lipman. 2,659,369, Nov. 17.
Penholder. F. de Hoffmann. 2,659,482, Nov. 17.
Penicillin salts of aminoalkyl-hydroxybenzoates. O. H. Tobiassen. 2,659,722, Nov. 17.
Phenol alcohol-epichlorohydrin reaction products. R. W. Martin. 2,659,710, Nov. 17.
Phosphor coating process. L. R. Koller. 2,659,679, Nov. 17.
Photographic element, Color. H. von Fraunhofer, H. Veraldeeen, and L. Meeussen. 2,659,671, Nov. 17.
Photographic paper having good curl characteristics, Preparation of. G. G. Gray. 2,659,680, Nov. 17.
Photographic product containing a strippable mask. H. G. Rogers and W. J. McCune, Jr. 2,659,673, Nov. 17.
Photoprinting materials, Diazotype. W. P. Leuch. 2,659,672, Nov. 17.
Picture screen stand. L. J. Du Mais. 2,659,559, Nov. 17.
Pin curl clip. V. Caserta. 2,659,378-9, Nov. 17.
Pipe preconditioner. H. B. Grow. 2,659,375, Nov. 17.
Piston ring. E. Mahle. 2,659,638 Nov. 17.
Piston ring assembly and ring support and expander member. H. Anderson and H. P. Phillips. 2,659,639, Nov. 17.
Planetary transmission, Two-speed. W. F. Carr. 2,659,249, Nov. 17.
Plant box. G. M. Acton. 2,659,180, Nov. 17.
Plastic articles, Making hollow. G. W. De Bell. 2,659,107, Nov. 17.
Plow attachment, Tractor. N. A. Vanderloop. 2,659,288, Nov. 17.
Plow, Two-way. H. A. Pursche. 2,659,284, Nov. 17.
Pneumatic accumulator. M. P. Berger. 2,659,391, Nov. 17.
Polygonal box. O. W. Wikstrom. 2,659,525, Nov. 17.
Porosity tester. H. M. Brown. 2,659,433, Nov. 17.
Portable arm support. J. T. Haley. 2659,423, Nov. 17.
Position indicating means for X-ray projectors. E. Burnham. 2,659,824, Nov. 17.
Positive engaging clutch. W. J. Zenner. 2,659,467, Nov 17.
Posture chair. R. A. Cramer. 2,659,413, Nov. 17.
Pouring attachment for paint cans and the like. J. W. Allen. 2,659,519, Nov. 17.
Pouring box for continuous casting machines. R. Easton and T. Y. Wilson 2,659,121, Nov. 17.
Power drive connection for combined rotatable and oscillatable mining tools. R. A. McCallum. 2,659,585, Nov. 17.
Power lift. P. W. Wells and J. T. Kulhavy. 2,659,308, Nov. 17.
Power supply unit for high-speed flash. A. M. Wengel. 2,659,854, Nov. 17
Power units for amusement devices, Making. C. F. Massopust. 2,659,215, Nov. 17.
Press: *See*—
Baling press.
Pressure cooker. A. Warren. 2,659,805, Nov. 17.
Pressure responsive device. R. K. MacLea, Jr., I. A. Greenwood, Jr., and H. Zieholz. 2,659,390, Nov. 17.
Preventing corrosion of ferrous metals. M. L. Lytle. 2,659,693, Nov. 17.
Printer's central post form table. J. L. Ferguson, Jr. 2,659,571, Nov. 17.
Printing and issuing machine, Ticket. C. W. Adshead. 2,659,300, Nov. 17
Printing mechanism for accounting machines. M. A. Goodber, F. H. Placke, and C. G. Falkner. 2,659,301, Nov. 17.
Producing a continuous sheet of integrated mica, Means and method for. M. D. Heyman. 2,659,412, Nov. 17.
Proportional sequence control for folders. R. G. McLagan. 2,659,598, Nov 17
Prospecting with timed electric energy. W. M. Barret. 2,659,882 Nov. 17.
Protective bib for vehicles. W. R. Comber. 2,659,523, Nov 17.
Pulsation eliminator and gas cleaner. R. C. Baird. 2,659,450, Nov. 17.
Pulse modulation system. V. D. Landon. 2,659,866, Nov. 17.
Pump: *See*—
Centrifugal pump. Gear pump.
Compound pressure pump. Rotary pump.
Counter-balance pump.
Pump actuating means for rotary duplicating machines. R. W. Quirk. 2,659,303, Nov. 17.
Pumping device for pumping fluids, Electromagnetic. A. Ryba. 2,659,310, Nov. 17.
Punching bag apparatus. C. F. Glasser. 2,659,603, Nov. 17.
Push-button structure. E. H. Allen. 2,659,236, Nov. 17.
Pyrazolone monoazo dyestuffs. W. Kuster. 2,659,720, Nov. 17.
Quaternary ammonium salts of dialkyl aminoalkyl xanthene-9-carboxylates and the production thereof. J. W. Cusic and R. A. Robinson. 2,659,732, Nov. 17.
Quaternary ammonium salts of heterocyclylalkanol esters of xanthene-9-carboxylic acid. J. W. Cusic and R. A. Robinson. 2,659,725, Nov. 17.
Rack: *See*—
Tie rack.
Rack attachment for bathtubs. P. R. Williams. 2,659,491, Nov. 17.
Radiation detection device. E. H. Land. 2,659,825, Nov. 17.
Radiation measuring device. G. Failla and H. H. Rossi. 2,659,826, Nov. 17.
Radio energy system, High-frequency directed. B. M. Torrey. 2,659,818, Nov. 17.
Radio range tracking system. E. V. Haake. 2,659,883, Nov. 17.
Ranging system. W. F. Meeker and F. H. Slaymaker. 2,659,878, Nov. 17.
Reaming machine, Conduit. H. J. Sketchley. 2,659,540, Nov. 17.
Recognizer circuit. E. W. Pappenfus. 2,659,879, Nov. 17.
Record card controlled sensing and printing means. A. W. Excell. 2,659,302, Nov. 17.
Record tape magazine. F. H. Owens. 2,659,653, Nov. 17.
Recorder, Graphic. E. L. Benno. 2,659,651, Nov. 17.
Recorder, Graphic. D. N. MacDonald. 2,659,650, Nov. 17.
Recording apparatus, High-speed multiplex. R. G. Thompson. 2,659,652, Nov. 17.
Recovery of potassium from sea water and saline aqueous solutions. E. Q. Berner and J. Kielland. 2,659,656, Nov. 17.
Reel: *See*—
Fishing reel.
Reel for fishing rods, Attachable. H. R. Freeman. 2,659,544, Nov. 17.
Refining petroleum products. A. Gislon and J. Quiquerez. 2,659,691, Nov. 17.
Refrigerating apparatus and cabinet structure. E. L. Hart. 2,659,213, Nov. 17.
Regulating means for use with prime movers. Liquid fuel. R. J. Ifield. 2,659,425, Nov. 17.
Regulating system for power plants, including a free piston auto-generator and a receiver machine such as a turbine. R. Huber. 2,659,194, Nov. 17.
Regulator: *See*—
Duration ratio regulator.
Resawing machine, Shake board. A. F. Gledhill and L. R. Lewis. 2,659,396, Nov. 17.
Resilient connection. F. F. Kishline and R. H. Phelps. 2,659,619, Nov. 17.
Resinous condensation products from aromatic ketones and amines, Preparation of. R. B. Thompson and H. S. Bloch. 2,659,712, Nov. 17.
Rest and feeding device for animals, Combination. G. H. Herbert. 2,659,345, Nov. 17.
Reticles. W. F. Parsons and E. C. Poling. 2,659,665, Nov 17.
Reversing and speed control for truck motors. L. M. Persons. 2,659,851, Nov. 17.
Reversing drive mechanism. J. R. Wood. 2,659,237, Nov. 17.
Rewind core holder. A. H. Steuber. 2,659,542, Nov. 17.
Rim driving wheel. P. G. Gilbert. 2,659,405, Nov. 17.
Ring: *See*—
Piston ring.
Rock drill bit. G. R. Watson. 2,659,577, Nov. 17
Rocket projector with adapter. C. C. Lauritsen. 2,659,274, Nov. 17.
Rocking horse. L. Cowsar. 2,659,602, Nov. 17.
Roll film viewer. G. H. J. Baule. 2,659,267, Nov. 17.
Roof for tilting furnaces. F. Hönig. 2,659,326, Nov. 17.
Roof with flexible suspension means, Suspended brick. F. Hönig. 2,659,325, Nov. 17.
Roofing or siding assembly. A. Alvarez, Jr. 2,659,323, Nov. 17.
Rotary pump. F. L. Carson 2,659,313, Nov. 17.
Rotor blade, Molded aircraft sustaining. P. H. Stanley. 2,659,444, Nov. 17.
Rubber processing composition. W. A. Schulze. 2,659,677, Nov. 17.
Safeguarding against prolonged cessation of operation of turbojet engines, Method and apparatus for. W. O. Thompson. 2,659,200, Nov. 17.
Safety appliance for switches. H. C. Berger. 2,659,780, Nov. 17.
Safety device for water supply networks. L. C. E. Prager. 2,659,383, Nov. 17.
Safety switch. L. A. Dickinson. 2,659,791, Nov. 17.
Saw, Carbide tipped planer. C. E. Drake. 2,659,397, Nov. 17.
Saw, Kerf planing. H. G. Marvin. 2,659,398, Nov. 17.
Saw-set, Crosscut. F. F. Poller, Sr. 2,659,250, Nov. 17.
Scale housing, Weighing. J. M. Little and C. G. Blank. 2,659,590, Nov. 17.
Scale, Weighing. L. D. Singleton. 2,659,593, Nov. 17.
Screen and preparing same, Transparent luminescent. D. A. Cusano and F. J. Studer. 2,659,678, Nov. 17.
Screw and nut mechanism. H. E. Holman. 2,659,241, Nov. 17.
Seal for valve actuators. H. K. Blanning. 2,659,242, Nov. 17.

Sealed valve. E. C. Ehlke. 2,659,569, Nov. 17.
Sealing machine with automatic labeling. H. L. Reitzes. 2,659,520, Nov. 17.
Selective receiving and amplifying circuit. K. Nowak. 2,659,776, Nov. 17.
Selenium element and making it. H. A. Rudolph. 2,659,846, Nov. 17.
Separation of acetylene from gaseous mixtures by glycolonitrile. S. P. Robinson. 2,659,453, Nov. 17.
Separation of gas mixtures. R. W. H. Sargent. 2,659,216, Nov. 17.
Separator for impurities present in the combustion products of gas turbine plants. R. J. Welsh. 2,659,448, Nov. 17.
Sequence spark gap system. A. L. Gardner. 2,659,839, Nov. 17.
Servo mechanism for gas turbine fuel regulators. Hydraulic. N. E. Starkey. 2,659,349, Nov. 17.
Sharpening machine, Tool. A. T. and R. E. Mead. 2,659,184, Nov. 17.
Shear assembly. L. V. Dutro and J. F. Nameth. 2,659,436, Nov. 17.
Sheathed resistor electric heater. A. C. Boggs. 2,659,795, Nov. 17.
Shield for drive-in or other outdoor moving picture theater projection screens, Daylight. S. D. Grubbs, Sr. 2,659,429, Nov. 17.
Shingle. H. Abraham. 2,659,322, Nov. 17.
Shingle, Flexible. E. L. Lincoln. 2,659,321, Nov. 17.
Shipping carton and floor stand, Combination. R. E. Paige and M. Rafaat. 2,659,483, Nov. 17.
Shock absorber. W. A. Coda. 2,659,595, Nov. 17.
Shower head. J. A. McConnell. 2,659,627, Nov. 17.
Shuffling device, Card. C. T. Skillman and M. Kistner. 2,659,607, Nov. 17.
Sign: *See*—
Advertising sign.
Signal: *See*—
Flat tire signal. Warning signal.
Signal and cutout for use in dynamo-battery systems. A. V. Waters. 2,659,855, Nov. 17.
Signal delay device, Electrical. W. M. Allison. 2,659,869, Nov. 17.
Signal responsive driving or follow-up device. K. Ezr. 2,659,847, Nov. 17.
Signal system for vehicles, Directional. G. A. Du Rocher. 2,659,838, Nov. 17.
Silicon-germanium objective lens. R. G. Treuting. 2,659,271, Nov. 17.
6-chloro-O-cresol, Production of. J. W. Zemba. 2,659,759, Nov. 17.
Size control of linear bodies. L. C. Argyle. 2,659,182, Nov. 17.
Skinning machine for flat pork cuts. R. T. Townsend. 2,659,402, Nov. 17.
Slat tilting mechanism for Venetian blinds. H. Nelson. 2,659,431, Nov. 17.
Snap acting mechanism. W. A. Martin. 2,659,238, Nov. 17.
Socket, Lamp. J. S. Yarrow. 2,659,875, Nov. 17.
Soldering flux composition. R. A. Nelsh. 2,659,684, Nov. 17.
Solubilized platinum sulfide reforming catalyst. L. Heard and M. J. Den Herder. 2,659,701, Nov. 17.
Sort verifier for punched cards. L. P. Martin. 2,659,265, Nov. 17.
Spanner type strainer wrench. J. J. Palmer. 2,659,256, Nov. 17.
Spectacle temple. A. Hurst. 2,659,270, Nov. 17.
Spectrometer, Mass. G. H. Lee. 2,659,822, Nov. 17.
Spectrometric analysis of solids. J. A. Hipple, Jr. 2,659,821, Nov. 17.
Speed change transmission. P. J. McLaren. 2,659,245, Nov. 17.
Speed control system for electromagnetic coupling. R. L. Jaeschke. 2,659,832, Nov. 17.
Speed control valve. C. H. Hallett and E. F. Heiser. 2,659,386, Nov. 17.
Spinning viscose rayon. M. J. Rarick. 2,659,102, Nov. 17.
Spray boom. A. W. Harz. 2,659,624, Nov. 17.
Spray device, Rechargeable pressure. T. T. Graham. 2,659,629, Nov. 17.
Spray gun, Sanitary. H. W. Beach. 2,659,628, Nov. 17.
Spring assembly for spring cushion construction. A. V. Handren, Jr. 2,659,417, Nov. 17.
Spring construction, Starter. J. C. Bandli. 2,659,454, Nov. 17.
Sprinkler, Rotating. J. M. Landry. 2,659,626, Nov. 17.
Stabilized vinylidene chloride compositions. A. F. Daglish and D. Faulkner. 2,659,709, Nov. 17.
Stabilizer for residual oils. R. W. Sage and L. A. Jennings. 2,659,666, Nov. 17.
Stabilizing foam forming on malt beverages and beverages stabilized therewith. A. B. Steiner. 2,659,675, Nov. 17.
Stacker and unstacker, Can. R. M. Botley. 2,659,495–6, Nov. 17.
Stand: *See*—
Picture screen stand.
Staple tacker, Hand type. F. S. Boroughs. 2,659,083, Nov. 17.
Steady-rest centering gauge. R. Post. 2,659,156, Nov. 17.
Steering device for trailers. C. A. Henry. 2,659,611, Nov. 17.
Steering gear. L. E. Oberholtz and G. Allen. 2,659,613, Nov. 17.
Steering mechanism for rotary mowers. R. E. Church. 2,659,445, Nov. 17.
Steering system, Automatic. N. B. Murphy. 2,659,554, Nov. 17.
Stilts, Adjustable. R. P. and E. E. Skaggs. 2,659,087, Nov. 17.
Stirrer, Paint. W. C. Gray. 2,659,581, Nov. 17.
Stock feed mechanism for bar machines. A. H. Jobert. 2,659,127, Nov. 17.
Stopper for container caps. A. H. Jung. 2,659,510, Nov. 17.
Stove, Portable outdoor cooking or camp. D. H. Bitney. 2,659,360, Nov. 17.
Strainer and cleaner for paint rollers. E. A. Mencfeldowski, Jr. 2,659,096, Nov. 17.
Stranding machine. S. W. Ripley. 2,659,192, Nov. 17.
Strip feeding mechanism. P. G. Stimson. 2,659,472, Nov. 17.
Structure for removing free water from products having oil and free water therein. E. R. Williams. 2,659,488, Nov. 17.
Substituted formyltetrahydropteroyl amino acids and preparing the same. D. B. Cosulich. 2,659,726, Nov. 17.
Suction mounting for can openers or the like. G. A. Lehmann and W. E. Gundelfinger. 2,659,560, Nov. 17.
Sulfides of thiodiarylamines. R. O. Zerbe. 2,659,724, Nov. 17.
Support: *See*—
Portable arm support.
Surgical clamp. C. F. Schnee. 2,659,371, Nov. 17.
Suspension for motor trucks, Rear-end. H. E. Willock. 2,659,446, Nov. 17.
Sweep linearity control circuit. L. C. Murdock. 2,659,837, Nov. 17.
Switch: *See*—
Electric switch. Thermally controlled electric switch.
Safety switch.
Switch for telephone systems, Automatic. H. W. Balzer and P. Bakker. 2,659,771, Nov. 17.
Switch machine. N. C. L. Brown. 2,659,812, Nov. 17.
Switch mechanism. W. L. Butler. 2,659,785, Nov. 17.
Switch unit, Circuit breaker. R. T. Casey. 2,659,788, Nov. 17.
Syringe supporting and identifying tray. R. A. Duley and M. E. Hosler. 2,659,485, Nov. 17.
System for elevating contact material. W. L. McClure. 2,659,633, Nov. 17.
Table: *See*—
Printer's central post form table.
Table. P. Records. 2,659,642, Nov. 17.
Table top, Sliding. K. J. Draxler. 2,659,641, Nov. 17.
Tandem drive mechanism. E. F. Norelius. 2,659,246, Nov. 17.
Tape, Measuring. A. R. A. Beeber. 2,659,153, Nov. 17.
Target mechanism, Light beam. E. G. Henry. 2,659,606, Nov. 17.
Telephone adapter for hearing aids. J. F. O'Hara. 2,659,772, Nov. 17.
Telephone reverting call system. G. Elliott. 2,659,769, Nov. 17.
Temperature control device. R. N. Collins. 2,659,801, Nov. 17.
Tempering curved glasses of organic materials. P. Halbig and C. Taddei. 2,659,105, Nov. 17.
Testing and training apparatus. H. N. Durham. 2,659,164, Thallophytocidal composition containing metalhydrazine salts and using the same. E. C. Soule. 2,659,688, Nov. 17.
Therapeutic apparatus. M. O. Lewis. 2,659,365, Nov. 17.
Thermally controlled electric switch. A. D. Prickett. 2,659,787, Nov. 17.
Thermostatic control device and burner system. J. W. Smith. 2,659,534, Nov. 17.
Thread-controlling mechanisms for sewing machines. A. N. Hale. 2,659,329, Nov. 17.
Thread guiding device. O. Stenglein. 2,659,539, Nov. 17.
Thrust bearing. D. W. Dudley. 2,659,635, Nov. 17.
Tie rack. E. G. Friesz. 2,659,643, Nov. 17.
Tippler for railway wagons, Rotary. R. Robson. 2,659,499, Nov. 17.
Tire locating ring assembly for retreading molds. E. A. Glynn. 2,659,104, Nov. 17.
Toaster, Electric. D. W. Morphy and W. M. Russell. 2,659,297, Nov. 17.
Toning photographs and composition therefor. O. R. Hyndman. 2,659,674, Nov. 17.
Tool: *See*—
Casing repair tool. Work holding tool.
Deborning tool.
Tool for assembly of pre-engraved projectiles with cartridge cases. F. R. Simpson. 2,659,262, Nov. 17.
Tool for reclaiming broken drill parts, etc., from wells, Hydraulically actuated fishing. S. R. Knapp. 2,659,441, Nov. 17.
Tool with liquid-spring actuated ram, Machine. P. H. Taylor. 2,659,348, Nov. 17.
Torque transmitting device. E. P. Peregrine. 2,659,221, Nov. 17.
Totalizing apparatus. J. C. Thoresen. 2,659,531, Nov. 17.
Towing device, Vehicle. R. C. Johnson. 2,659,609, Nov. 17.

Toy cannon. E. S. Leach. 2,659,356, Nov. 17.
Toy, Educational. E. F. Grubola. 2,659,165, Nov. 17.
Toy flying saucer. C. H. Van Hartesveldt. 2,659,178, Nov. 17.
Toy horse. W. J. Becker. 2,659,600, Nov. 17.
Toy locomotive. J. L. Bonanno and R. E. Beger. 2,659,317, Nov. 17.
Toy vehicle. H. Müller. 2,659,179, Nov. 17.
Transducer device electromechanically sensitive to flexure. H. G. Baerwald. 2,659,829, Nov. 17.
Transfer chute for connection between dry cleaning and solvent recovery machines. A. M. Duncan. 2,659,224, Nov. 17.
Transformer, High-frequency alternating current. R. Calvert. 2,659,845, Nov. 17.
Translating assembly for beam-type weighing scale. E. J. Eisner. 2,659,594, Nov. 17.
Translation of electromagnetic waves. C. C. Cutler. 2,659,817, Nov. 17.
Transmission. B. F. Kenyon. 2,659,248, Nov. 17.
Transmission system, Multiplex pulse. G. X. N. Potier. 2,659,768, Nov. 17.
Transmitter, Tape controlled telegraph. W. J. Zenner. 2,659,767, Nov. 17.
Trap: *See*—
Condensate trap.
Tray, Cash. P. Krupin. 2,659,480, Nov. 17.
Treatment of carboxymethyl diethers of ethylene glycols to remove HNO_3. A. B. Ash and M. H. Earing. 2,659,754, Nov. 17.
Treatment of resin acid-fatty acid mixtures. O. S. Eckhardt, D. F. Cook, and I. E. Knapp. 2,659,718, Nov. 17.
Triazine organometallic compounds and preparing same. E. A. H. Friedheim. 2,659,723, Nov. 17.
Trimming machine. R. M. Schultz. 2,659,278, Nov. 17.
Trisazo dyestuffs. W. Bossard and O. Bitterlin. 2,659,721, Nov. 17.
Trumpet for use in textile industry. J. J. Bradley. 2,659,108, Nov. 17.
Tubular gate. S. Kaplan. 2,659,168, Nov. 17.
Tuning assembly. P. Robinson. 2,659,820, Nov. 17.
Turbulent flow, restricted passage drier. L. Katz. 2,659,162, Nov. 17.
Turnbuckle wrench. G. Thompson. 2,659,257, Nov. 17.
Twisting device. E. Hegedüs. 2,659,193, Nov. 17.
2-amino-5-nitrothiazole azo dye compounds. J. B. Dickey and E. B. Towne. 2,659,719, Nov. 17.
2'-(4'-lower alkanoylaminobenzal)-6-acetalamino-hydrazinobenzothiazole-2. L. Katz. 2,659,730, Nov. 17.
Typographical composing machine. P. Hilpman. 2,659,478, Nov. 17.
Typographical machine. J. C. Plastaras. 2,659,479, Nov. 17.
Ultraviolet vapor electric discharge device. W. T. Anderson, Jr. 2,659,833, Nov. 17.
Underground liquid storage facility and selecting and preparing the same. R. V. Phelps. 2,659,209, Nov. 17.
Universal coupling. H. H. Talbot. 2,659,217, Nov. 17.
Unstacker. E. A. Verrinder. 2,659,497, Nov. 17.
Upholstery covering. Y. and E. Wass. 2,659,421, Nov. 17.
Utility loader. V. P. Broussard. 2,659,494, Nov. 17.
Vacuum cleaner head with handle controlled valve. T. W. Ott. 2,659,099, Nov. 17.
Vacuum cleaner implement and handle coupling. D. I. Doyle, Sr. 2,659,616, Nov. 17.
Valve: *See*—
Coughing valve. Gas valve.
Cylinder valve. Sealed valve.
Fluid pressure responsive feed control valve. Speed control valve.
Valve. W. A. Werker and J. Steenfeld. 2,659,570, Nov. 17.
Valve and stem with reinforcing flange, Integral. H. J. Rand. 2,659,566, Nov. 17.
Valve construction. M. H. Grove and A. U. Bryant. 2,659,568, Nov. 17.
Valve mechanism, Pinch. V. W. Farris. 2,659,387, Nov. 17.
Valve with rigidly connected reciprocating valves, Measuring. J. H. Donnelly. 2,659,518, Nov. 17.
Valve with turbulent flow. H. J. Rand. 2,659,388, Nov. 17.
Valve with yieldable face. H. J. Rand. 2,659,567, Nov. 17.
Variable resistance control device. A. M. Daily and M. B. Arisman. 2,659,793, Nov. 17.
Varying the circumference of printing cylinders, Means for. W. W. De Lano. 2,659,306, Nov. 17.
Vehicle: *See*—
Toy vehicle.
Vehicle or trailer for transporting portable cases, Motor. A. Kranawetvogel and W. Rosin. 2,659,504, Nov. 17.
Vehicle wheel and the like, Shock and sound absorbing. M. Watter. 2,659,622, Nov. 17.
Ventilating apparatus for architectural structures, Pressure-displacement. E. J. Kurek. 2,659,292, Nov. 17.
Ventilator, Window. H. Hersperger. 2,659,294, Nov. 17.
Vibrator. S. F. and E. D. James. 2,659,784, Nov. 17.
Vinyl halide polymerization with adipoyl peroxide and hexamethylene diamine. H. F. Park. 2,659,716, Nov. 17.
Vortex ring process for liquid-liquid extraction. W. R. Works and F. A. M. Buck. 2,659,664, Nov. 17.
Vulcanizing apparatus. J. A. Bombardier. 2,659,101, Nov. 17.
Wall panel, Insulated metal. J. H. Bowman. 2,659,461, Nov. 17.
Warming attachment for electric toasters, Toast. D. D. Soccoli. 2,659,295, Nov. 17.
Warning signal. J. Insul. 2,659,336, Nov. 17.
Washing machine impeller having nonradial vanes. B. Pellerin. 2,659,226, Nov. 17.
Water heater. J. F. Dunn. 2,659,804, Nov. 17.
Waxed paper, Preparing high-glaze. W. M. Mazee and H. J. Loois. 2,659,683, Nov. 17.
Wear resisting insert for core making apparatus. E. F. Peterson. 2,659,119, Nov. 17.
Weighing and bagging apparatus, Nut. H. L. Gibson. 2,659,564, Nov. 17.
Weight indicator assembly, Live line load. A. L. Seljos. 2,659,575, Nov. 17.
Weight indicator assembly, Live load. R. R. Crookston. 2,659,574, Nov. 17.
Welding apparatus, Arc. N. E. Anderson and E. T. Sullivan. 2,659,797, Nov. 17.
Welding apparatus, Electric. N. E. Anderson. 2,659,796, Nov. 17.
Welding jig for repairing plowshares. L. O. Wiese. 2,659,332, Nov. 17.
Wheel: *See*—
Rim driving wheel.
Wheel brake, especially for aircraft, High-power. P. Mercier. 2,659,458, Nov. 17.
Wheel suspension for carpet sweepers, Planetary. J. M. Himes. 2,659,095, Nov. 17.
Winding core. F. C. Guyer. 2,659,543, Nov. 17.
Winding machine. W. L. Perry and E. J. Abbott. 2,659,538, Nov. 17.
Window. R. L. Klein, C. C. J. Maffei, and J. Kirchstein. 2,659,113, Nov. 17.
Window structure, Detachable. A. F. Tornabene. 2,659,112, Nov. 17.
Windshield wiper. R. B. Morton. 2,659,097, Nov. 17.
Wire bending die unit. E. O. Klemm. 2,659,408, Nov. 17.
Wire bending machine. E. O. Klemm. 2,659,409, Nov. 17.
Wire stripper. E. D. Davison. 2,659,140, Nov. 17.
Wire stripper. S. G. Wood. 2,659,254, Nov. 17.
Work holding tool. M. B. Layne and L. L. Held. 2,659,260, Nov. 17.
Wrench: *See*—
Bolt-holding box wrench. Turnbuckle wrench.
Spanner type strainer wrench.
Wringer. W. L. Kauffman, II. 2,659,227, Nov. 17.
Xylene separation. R. L. Humphreys, G. C. Brock, and C. K. Reynolds. 2,659,763, Nov. 3.

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ISSUED NOVEMBER 17, 1953

NOTE.—First number = class, second number = subclass, third number = patent number

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176: 2,659,874
180: 2,659,875
255: 2,659,876
263: 2,659,877
340— 16: 2,659,878
164: 2,659,879
213: 2,659,880
239: 2,659,881
343— 12: 2,659,882
15: 2,659,883
18: 2,659,884
346— 34: 2,659,650
2,659,651
50: 2,659,652
136: 2,659,653

CLASSIFICATION OF DESIGNS

D 3—26: Des. 170,895
Des. 170,896
D 4— 3: Des. 170,853
Des. 170,858
Des. 170,860
D 7— 7: Des. 170,897
D14—24: Des. 170,886
Des. 170,887
Des. 170,888
D26— 1: Des. 170,892

D33— 1: Des. 170,883
2: Des. 170,901
Des. 170,902
3: Des. 170,894
19: Des. 170,856
D42— 7: Des. 170,859
D44— 1: Des. 170,884
Des. 170,891
D45— 4: Des. 170,848
9: Des. 170,865

D45— 9: Des. 170,866
Des. 170,869
Des. 170,872
16: Des. 170,847
19: Des. 170,867
Des. 170,868
Des. 170,870
Des. 170,871
D47— 7: Des. 170,863
D48—31: Des. 170,877

D52— 3: Des. 170,893
D54—14: Des. 170,864
D55— 1: Des. 170,874
D56— 1: Des. 170,889
Des. 170,890
4: Des. 170,849
Des. 170,882
D58—13: Des. 170,846
26: Des. 170,899

D62— 4: Des. 170,851
Des. 170,900
D66— 1: Des. 170,857
D71— 1: Des. 170,850
D74— 1: Des. 170,878
Des. 170,879
Des. 170,880
Des. 170,881
9: Des. 170,875

D74— 9: Des. 170,876
D78— 1: Des. 170,855
D80— 9: Des. 170,852
D83— 1: Des. 170,885
D85— 2: Des. 170,898
D90—20: Des. 170,854
Des. 170,862
Des. 170,873
D92—21: Des. 170,861

U. S. GOVERNMENT PRINTING OFFICE: 1953

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,513,978. Bumper Jack. Patented July 4, 1950. Jack for lifting a vehicle bumper. A U-shape frame comprising parallel uprights has a housing slidable longitudinally thereon, in which a protruding arm for placing under a bumper is securely fastened against slipping. A pair of cooperating friction-climbing washers are rockably mounted on the uprights within the housing, and stabilizing springs bear against the under sides of the washers. A handle-actuated, load-transmitting shaft journaled in the housing between the uprights has recesses for receiving the washer edges. As the handle is reciprocated vertically, the shaft is oscillated, rocking the washers alternately and causing them to climb the uprights and raise the housing. A lever for releasing the washers from frictional engagement with the uprights to lower the housing is welded to one washer, with the free end within reach of the thumb of the hand actuating the handle. The bottom of the frame is fastened to a base to prevent sliding. (Owner) Robert C. Brown, Jr., Trustee, Mann, Brown and Hansmann, 53 West Jackson Blvd., Chicago 4, Ill. Group 33—52. Reg. No. 52,076.

Pat. 2,637,279. Welded Railway Car Truck Frame. Patented May 5, 1953. Lightweight rugged all-welded railway truck frame fabricated of steel plate includes a pair of hollow side rails and a pair of hollow transoms extending laterally across the frame between the rails near the central section thereof. The ends of each transom are anchored to the side rails by a pair of specially designed transition structures which form the termini of each transom. Each transition structure constitutes an important feature of the truck frame construction in that it provides an opening for the usual truck swing hanger or link and at the same time provides a high degree of rigidity and strength at the junction between the transom and the side rails where needed. Each transom is underslung with respect to the side frames and has a sloping U-shape web extending entirely through the transom and welded thereto, forming three sides of the swing link slot. Suitable bulkheads are positioned inside the rails at points of maximum stress to provide ample rigidity and strength without substantial increase in weight. (Owner) Lukens Steel Company. Correspondence to Daniel E. Igo, Director of Legal Department, Lukens Steel Company, Coatesville, Pa. Group 37—12. Reg. No. 52,077.

Pat. 2,638,338. Corrosion Inhibiting Vessel Construction. Patented May 12, 1953. Melting pot is provided with a rigid liner to reduce to a minimum the corrosive action of liquids on the walls of the pot. The pot is provided with a sealing lid having an annular rigid liner depending from and secured to the interior of the lid. The liner is of smaller diameter than the inside of the pot, to provide a smooth annular concentric space between the liner and the pot. The liner terminates above the bottom of the pot so that there will be free fluid passage around the bottom of the liner into the annular space, which is provided with a vent for entrapped gas. Radially extending legs may be secured to the outer surface of the liner to abut the inner wall of the pot to prevent radial expansion of the liner. The liner may be detachably secured to the lid or formed integrally therewith. Modifications shown. (Owner) Lukens Steel Company. Correspondence to Daniel E. Igo, Director of Legal Department, Lukens Steel Company, Coatesville, Pa. Group 33—12. Reg. No. 52,078.

Pat. 2,420,479. Curtain. Patented May 13, 1947. Criss-cross type curtain and tieback therefor. Each curtain section has a diagonally disposed casing crosswise thereof on its inner side to removably and adjustably receive a tape, cord, or the like extending from one end of the tieback. A ring is provided on one end of the tieback and on the outer end of the tape to detachably engage a fastener on a window frame for holding the curtains in draped position. (Owner) Nell S. Hicks, 1528 Markan Drive, N. E., Atlanta, Ga. Group 23—91. Reg. No. 52,079.

Pat. 2,561,902. Covered Dish. Patented July 24, 1951. Kitchen receptacle is adapted to cooperate with a food grinder to receive the ground meat or other food and then be placed in a cooler. The base of the receptacle is curved upwardly on one side so that it fits loosely over the upper clamping arm of a food grinder clamped to a table edge. The upper portion of the wall above the curve is cut out to receive the food discharge spout of the grinder, from which the flow of chopped food is directed to the base by the curved portion. A detachable lid embodies a hinged depending panel that is raised to admit the spout of the grinder and lowered to cover the cut-out recess. (Owner) Ruth Boden, 4102 Beresford, San Mateo, Calif. Groups 34—41—99; 39—81; 40. Reg. No. 52,080.

Pat. 2,563,561. Multiple Connector Plug. Patented Aug. 7, 1951. Multiple plug connector of the type having a pair of prongs and three sockets is designed to insure positive electrical connections throughout the life of the plug. The plug consists of a pair of identical segments of insulating material with a pair of ribbon-like conductors held in spaced-apart relation between the segments. Each conductor extends outwardly through a slot in the plug and is turned back into the slot to form a compressible prong. The opposed sections of each prong are held in fixed spaced-apart relation by portions of the plug so that, when the prongs are compressed in use, permanent deformation is prevented. The opposite ends of the conductors and the ends of a pair of crossbars secured to the conductors are turned back at the ends to form resilient contact tongues for the sockets of the plug. (Owner) William T. Stanley, 810½ North Illinois St., Apt. 8, Indianapolis 4, Ind. Group 36—11. Reg. No. 52,081.

Pat. 2,579,624. Replaceable Multiple Unit Fuse Plug. Patented Dec. 25, 1951. Screw type fuse plug wherein a replaceable fuse member having multiple fuse elements may be rotated by turning a transparent cap inside the top of the plug to successively bring the fuse elements into operative position so that, whenever a fuse element blows, the next adjacent fuse element may be moved to close a circuit through the plug. Provision is made for resiliently pressing and retaining each fuse element in operative position against a conductor inside the plug, and for dissipating the explosive force of blowing fuses. The plug is constructed to occupy substantially the same space as a conventional single fuse unit, and provides a high safety factor in that the parts are so spaced as to avoid shorting across from conductor to conductor. The fuse structure may be readily loaded and unloaded for replacing purposes by any average householder without the use of tools of any kind. (Owner) William T. Stanley, 810½ North Illinois St., Apt. 8, Indianapolis 4, Ind. Group 36—11. Reg. No. 52,082.

Pat. 2,152,000. Window Blind. Patented Mar. 28, 1939. Window blind combining the advantages of a window shade, Venetian blind, awning, storm sash, and fire screen. A flexible curtain is composed of hollow metal slats each having a convex upper edge, and a concave lower edge to fit over the upper edge of an adjacent slat when desired. The slats are flexibly connected by means of inside pins extending through slots in connecting links and may be opened and closed relative to one another by a slight pull on a side tape. The curtain is windable on an enclosed roller at the top for raising or lowering by the same tape. The slat ends are guided within a channeled guide frame which fits within the sides and bottom of a window frame. The guide frame is pivoted just below the roller so it may be swung outward and locked at selected angular awning positions with respect to the window. The blind may be locked in closed position with the slats nested snugly to provide a weathertight, fireproof protective screen. (Owner) Harry L. Stone, 3307 Indian Queen Lane, Philadelphia 29, Pa. Group 25—62—63. Reg. No. 52,083.

Pat. 2,566,577. Lifter for Lifting Roast Fowl, Meat, Etc. Patented Sept. 4, 1951. Device for lifting roasted fowl, meats, etc. An elongated metal body has a lifting handle at upper end and flanges extending downwardly from each side of the body. A pair of rings mounted in bores in the flanges support longitudinal bars parallel with the body. Downwardly extending arms pivoted to the bars have inwardly turned prongs at their lower ends to engage and lift a fowl. Manually operated plates attached to the bars extend upwardly adjacent the flanges on opposite sides of the body near the handle. In use, the prongs are spread apart by drawing the upper ends of the plates together. The prongs are placed in juxtaposition with the bottom of the fowl and are drawn toward each other. The handle is raised and the pull upon the bars will cause the prongs to engage the fowl. To release the fowl, the plates are pulled together, thereby spreading the prongs apart. The device may be folded for storing. (Owner) John W. McDevitt, 324 East 3d St., Davenport, Iowa. Groups 34—41—99; 40. Reg. No. 52,084.

Pat. 2,571,465. Adjustable Cake Cutter. Patented Oct. 16, 1951. Cake cutter has a spatula-like triangular plate with an upturned back rigidly joined to a handle. Angle members at opposite ends of the back each have a rear arm parallel to and slidable along the back and held in adjusted position by bolts so as to widen or narrow the slices to be cut. A pair of adjustable cutting blades arranged in V-shape are pivoted to the front arms of the angle members. A knob adjustably connects overlapped slotted ends of a pair of upwardly extending arms of the blades. In use, the blades are swung vertically by the knob until the arms engage a rest on the handle. The rectangular plate is then inserted under a cake and the arms swung downwardly to cut the cake. The device is then withdrawn by the handle carrying with it the slice of cake to be served. (Owner) John W. McDevitt, 324 East 3d St., Davenport, Iowa. Groups 33—41—99; 40. Reg. No. 52,085.

Pat. 2,638,702. Knockdown Stool-Easel. Patented May 19, 1953. Stool-easel for artists and the like is light and easily knocked down for carrying. A seat has two legs hinged at the rear held in set-up position by spring locks. A forward extending beam is rigidly attached to the seat. At the front end of the beam are pivotally supported on a single pivot clamping bolt a depending easel prop, which serves also as a third leg, and a forward and upward extending easel arm, which is independently adjustable. The top of a work board may be clamped on a crossbar at the easel arm end, with the lower end of the board resting on the beam or, if the board is short, it will rest on a second crossbar. The easel arm is long enough so that when the legs, easel prop, and easel arm are all folded against the under side of the seat the first crossbar overlies and holds them in knock-down position by tightening the pivot-clamping bolt. (Owner) Francis C. Holbrook, 552 Macon St., Brooklyn 33, N. Y. Groups 34—41; 39—54. Reg. No. 52,086.

Pat. 2,641,136. Ratchet Wrench. Patented June 9, 1953. This is a ratchet wrench which greatly speeds up the turning on or off of nuts and bolts. It is particularly adapted for work in close locations where only a short movement of the wrench handle is possible. There are two handles connected to a head portion which encloses pawl and ratchet mechanism and also planetary gearing. By holding one handle and moving the other back and forth or rotating it all the way around, a 2 to 1 ratio is obtained to turn on a nut. Turning the wrench upside down turns off a nut just as fast. The planetary gears are attached to the stationary handle, and a sun gear to the socket holder for the nut. An intermediate ring gear rotates on the outside of the planetary gears, while the pawl and ratchet mechanism interconnects the latter with the ring gear. The unit is compact and simple, and the mechanism is entirely enclosed in the head portion. (Owners) Morris B. Marsden, Jr., and James H. Marsden, 2332 South 9th Ave., Broadview, Ill. Group 33—52. Reg. No. 52,087.

Pat. 2,598,793. Lever Actuated Axially Shifting Type Tire Loosening Apparatus. Patented June 3, 1952. Device for changing truck tires and the like includes a horizontal framework to support a wheel. A standard extends upwardly from the support, and a horizontal platform is mounted for vertical movement on the standard. A shoe is pivoted to the platform to depend therefrom. A rod-like element secured to an abutment on the standard extends into a casing attached to the platform. A link is pivoted in a bifurcation at the lower end of the rod-like element. The free end of the link is hinged to a socket in the end wall of the casing which supports an operating handle. Movement of the handle moves the link upwardly against the rod-like element and moves the casing and platform downwardly, forcing the shoe between the tire and rim to release the tire. The device is adjustable for use with tires of different widths and diameters. (Owner) Frank L. Helton, Route 3, Box 44, Dixon, Mo. Group 38—31. Reg. No. 52,088.

Pat. 2,532,129. Selectable Index. Patented Nov. 28, 1950. Hinged sheet index adaptable for names and telephone numbers and the like. When a selected alphabetical tab is depressed for selection of an indexed sheet, a removable index unit, composed of tabs and sheets, moves and operates within the body of the index by a combination hinge and resiliently mounted roller. A base of plastic, metal, or the like, has a fulcrum positioned thereon. A plate on the fulcrum supports a series of stacked indexed sheets, the front portions of which form tabs. A hinge is fastened to the rear of the plate and to a cover for the sheets, and the sheets are fastened into folds of the hinge. A puller belt mounted on the roller is fastened to the inner end of the plate and to the inner end of the cover. When a tab of one of the sheets is depressed, the sheets are hingedly divided to expose the selected sheet. (Owner) Brown & Bigelow. Correspondence to Howard L. Fischer, 1286 University Ave., St. Paul 4, Minn. Groups 34—99; 39—81; 40. Reg. No. 52,089.

Pat. 2,631,494. Ophthalmic Trial Frame for Lenses. Patented Mar. 17, 1953. Optical trial frame for supporting one or a number of trial lenses in accurately predetermined positions before the eyes of a patient is provided with means for measuring and adjusting the supported trial lenses for interpupillary distance, as well as for distance from the cornea of the eyes, in order to approximate the ophthalmic correction. The frame, of the spectacle type having a pair of temple pieces, includes forwardly tilted complementary right and left rim sections for resiliently receiving and retaining one or more trial lenses for rotation and adjustment. A laterally adjustable forwardly projecting bridge assembly uniting the rim sections is disposed in a plane at right angles to the rim sections. An adjustable screw bar, having a nose-saddle rigid with the lower end, is threaded through the bridge assembly. A lock nut threaded on the bar coacts with the bridge assembly for simultaneously locking the bridge assembly and nose-saddle in adjusted position. (Owner) Dr. Ralph D. Gunkel, 7942 Wisconsin Ave., Bethesda 14, Md. Group 39—14. Reg. No. 52,090.

Pat. 2,619,421. Method of Separating the Components of a Mixture of Fats and Oils. Patented Nov. 25, 1952. Method of separating the components of vegetable and animal oils and related materials having a nuclei control point Tn. The solution is cooled from a temperature higher than the nuclei control point until it reaches Tn. The cooling is carried out in a minimum of about 18 hours and within a temperature decrease of not more than 15° F. The mixture is then cooled until it reaches the crystallization point Tc and the crystallized components are separated from the mixture. (Owner) Charles Greenfield, 97 Reservoir Ave., River Edge, N. J. Groups 20—92; 28—29. Reg. No. 52,091.

Pat. 2,638,674. Drawing Instrument. Patented May 19, 1953. Draftsman's compact device can be used to pivotally join any size drawing instrument and drawing platform to aid the making of perspective drawings and to facilitate the removal and replacement of a drawing without loss of accuracy. The device is an assembly comprising a plurality of pivots fixedly attached to a T-square or other drawing instrument substantially flush with the top surface of the blade, and mating pivot bases. The pivot bases may be positioned without the periphery of a drawing platform and are detachably retained by a downwardly extending tack-like piercing member. When used as a perspective linead, the T-square is turned face down so the pivot and pivot base are mated, using the pivot at the uppermost working edge according to the vision point at which it is to be used. All lines drawn will radiate from the vision point being used. Modified pivot and base constructions are shown. (Owner) Charles J. Worth, 270 First Ave., New York 9, N. Y. Group 39—11. Reg. No. 52,092.

Pat. 2,642,852. Added Air Charge and Water Injection System. Patented June 23, 1953. Multi-injection device for internal combustion engines systematically injecting one or more mediums, as added air, moisture, or supplementary fuels, as detonant inhibitor, at any position of throttle, without pressure mechanism, correctly apportioning the injection mediums to the load, speed, and power of the engine. The injection is atomized by added air blast and mixed with carburetion, introduced with proportionate increase of the throttle until the greatest quantity is injected at full throttle, even though the vacuum in the manifold is zero, by independent suction force. The systematic function of the injection produces higher cylinder volumetric efficiency and therefore compression with added air and the vapor of the injection, resulting in improved combustion and thus acting as detonant inhibitor, providing greater engine efficiency and power. (Owner) Leonard R. Bester, 170-06 Crocheron Ave., Flushing 58, L. I., New York, N. Y. Group 35—19—69. Reg. No. 52,093.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 17, 1953

[VOL. 676. No. 3]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 640,817. Sutherland Paper Company, Kalamazoo, Mich. Filed Jan. 15, 1953.

PICTURE-PAK

For Cartons Made of Fibreboard or Paper Board.
Claims use since Oct. 1, 1952.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 643,479. Fabrique Bag, Inc., New York, N. Y. Filed Mar. 11, 1953.

LAVAMESH STYLED BY FABRIQUE

Apart from the combination "Lavamesh Styled by Fabrique," the words "Styled by Fabrique" are disclaimed.
For Mesh Handbags.
Claims use since Jan. 15, 1953.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 640,623. The General Tire & Rubber Company, Akron, Ohio. Filed Jan. 12, 1953.

POLYSTOP

For Polymerization Inhibitor.
Claims use since on or about Aug. 15, 1951.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 647,376. Smith and Wesson, Inc., Springfield, Mass. Filed May 20, 1953.

AIRWEIGHT

For Revolvers.
Claims use since Nov. 21, 1952.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 613,574. Rarolite Chemical Co., Inc., Raritan, N. J. Filed May 5, 1951.

RAROLITE

The vertical lining indicates the color red.
For Printing Inks for Textiles, Paper, and Plastic Films.
Claims use since Oct. 1, 1946.

Ser. No. 623,422. Manifold Supplies Company, Brooklyn, N. Y. Filed Jan. 10, 1952.

PANAMA



RHINO

Applicant makes no claim of exclusive ownership of the word "Panama" apart from the trade-mark as shown. Applicant claims ownership of Registrations Nos. 504,448 and 504,693.
For Inked Ribbons.
Claims use since May 2, 1951.

Ser. No. 645,729. Quest Manufacturing Company, Chicago, Ill. Filed Apr. 22, 1953.

Quesco

Applicant claims ownership of Registration No. 409,579.
For Typewriter Carbon Paper.
Claims use since October 1950; and since Aug. 8, 1938, as to the word "Quesco."

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 593,422. The J. P. Lewis Co., Beaver Falls, N. Y. Filed Mar. 4, 1950.

TENSILITE

For Laminated Paperboard for Construction Purposes.
Claims use since October 1922.

Ser. No. 625,337. The Carney Company, Inc., Mankato, Minn. Filed Feb. 21, 1952.

Whir-Lite

The word "Lite" is disclaimed apart from the mark as shown.
For Rockwool Batts.
Claims use since Dec. 15, 1951.

Ser. No. 626,999. The Marvan Corporation, West Hartford, Conn. Filed Mar. 25, 1952.

TA-PER-TAPE

The word "Tape" is disclaimed apart from the mark as shown.
For Tape for Covering Joints of Wallboards.
Claims use since Mar. 18, 1952.

Ser. No. 632,195. Atlas Overhead Door Company, Quakertown, Pa. Filed July 7, 1952.

CHAMPION

For Doors of the Overhead Type, Either Manually or Automatically Operated, Together With Parts Thereof.
Claims use since Sept. 10, 1945.

Ser. No. 632,401. U. S. Aluminum Siding Corp., Chicago, Ill., by change of name from U. S. Metal Siding Corporation. Filed July 20, 1952.

EVERLUM

For Metal Roofing and Siding.
Claims use since Sept. 19, 1949.

Ser. No. 633,412. Curtis Companies Incorporated, Clinton, Iowa. Filed Aug. 2, 1952. (Sec. 2f.)

NEW LONDONER

For Doors.
Claims use since Nov. 30, 1938.

Ser. No. 634,082. General Steel, Inc., Minneapolis, Minn. Filed Aug. 18, 1952.

GNR'L

For Structural Steel Beams, Joists, Steel Lath and Steel Mesh, Structural Steel Sheets, Reinforced With Angle Bars, and Sheet Decking.
Claims use since May 6, 1952.

Ser. No. 636,621. J. E. Wendt, Richmond, Ill. Filed Oct. 14, 1952.

Dur-O-Plastik

The trade-mark comprises the term "Dur-O-Plastik" but no claim is made to the exclusive use of the word "Plastik" alone.
For Colored Wall Covering in the Nature of a Plaster.
Claims use since June 20, 1952.

Ser. No. 639,173. Kentile, Inc., Brooklyn, N. Y. Filed Dec. 8, 1952.

KEN-PATCH

The word "Patch" is disclaimed apart from the mark shown.
For Preparations in Powder Form for Use in Patching and Smoothing Rough and Worn Spots in Floors.
Claims use since July 15, 1948.

Ser. No. 639,940. Lakeside Gravel Company, Bellevue, Wash. Filed Dec. 23, 1952.

MEDITERRANEAN

For Concrete Building Blocks and Bricks.
Claims use since on or about Jan. 1, 1950.

Ser. No. 641,772. Arthur G. Eller Company, Louisville, Ky. Filed Feb. 5, 1953.

PACEMAKER

For Combination Windows and Ordinary Window Sash.
Claims use since Dec. 6, 1952.

Ser. No. 641,835. Great Lakes Corporation, New York, N. Y. Filed Feb. 6, 1953.

Strata-Lite

Applicant claims ownership of Registration No. 569,887.
For Mixture of Expanded Perlite, Bentonite, and Portland Cement Useful in the Cementing and Completion of Oil Wells.
Claims use since Nov. 12, 1952.

Ser. No. 642,051. Sea View Ventilated Awnings, Miami, Fla. Filed Feb. 10, 1953.

SEAVIEW

For Ventilated Awnings Made of Metal.
Claims use since Apr. 1, 1951.

Ser. No. 642,121. R. S. Bacon Veneer Co., Chicago, Ill. Filed Feb. 12, 1953.

PANAWALL

For Lumber and Plywood Panels.
Claims use since April 1951.

Ser. No. 642,122. R. S. Bacon Veneer Co., Chicago, Ill. Filed Feb. 12, 1953.

RIVIEL

For Lumber, Particularly Plywood Panels.
Claims use since Jan. 29, 1953.

Ser. No. 643,624. Robert R. Abrams, East Orange, N. J. Filed Mar. 16, 1953.

NOISORBER

For Sheets of Sound-Absorbing Material and Sound-Absorbing Units Fabricated Therefrom, Adapted To Be Suspended in Rooms for Sound-Absorption Purposes.
Claims use since Jan. 19, 1953.

Ser. No. 643,730. Solar Aircraft Company, San Diego, Calif. Filed Mar. 16, 1953.

SOLARAMIC

Applicant claims ownership of Registrations Nos. 568,833 and 568,834.
For Coatings of Ceramic in Dry Powdered Form Known to the Trade as Frit, and in Liquid Form Known to the Trade as Slurry.
Claims use since Feb. 2, 1953.

Ser. No. 646,355. Battenfeld Grease & Oil Corp., Kansas City, Mo. Filed May 4, 1953. (Sec. 2f.)

"AIRTITE"

For Caulking Compound in Cartridge Form Sold as Such and for Use in Caulking Guns.
Claims use since 1938.

Ser. No. 646,356. Battenfeld Grease & Oil Corp., Kansas City, Mo. Filed May 4, 1953.

GEE-TEE

For Caulking Compound.
Claims use since March 1948.

Ser. No. 647,234. Rudiger-Lang Co., Berkeley, Calif. Filed May 18, 1953. (Sec. 2f.)

TENSION-tite

For Complete Frameless Window Screen Units.
Claims use since on or about March 1948.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 615,744. Artistic Wire Products Company, Inc., East Hampton, Conn. Filed June 27, 1951.

VINYLking

The word "Vinyl" is disclaimed.
For Vinyl-Coated Wire Racks—Namely, Dish Draining Racks and Plate Storage Racks.
Claims use since Mar. 26, 1951.

Ser. No. 615,745. Artistic Wire Products Company, Inc., East Hampton, Conn. Filed June 27, 1951.

VINYLqueen

The word "Vinyl" is disclaimed.
For Vinyl-Coated Wire Racks—Namely, Dish Draining Racks and Plate Storage Racks.
Claims use since Feb. 8, 1951.

Ser. No. 624,377. J. A. Zurn Mfg. Co., Erie, Pa. Filed Jan. 31, 1952.

DURA-COAT

The word "Coat" as shown in the drawing is disclaimed apart from the mark.
For Drains—Namely, Roof Drains, Gutter Drains, Deck Drains, Cornice or Balcony Drains, Floor Drains, Shower Drains, Prison Cell Drains, Urinal Drains, Railroad or Track Drains, Laundry or Dairy Drains, Garage Drains, Ramp, Deck, and Pavement Drains, Subsurface Drains, Garbage Can Washing Floor Drains, Volatile Liquids Intercepting Drains, Subsurface Rack Water Drains, Basement and Foundation Drains, Basement Subsoil Drains, Swimming Pool Drains, Antiseptic Foot Bath Drains, Zoo or Animal Den Drains, and Pool or Pit Drains.
Claims use since Jan. 1, 1938.

Ser. No. 624,379. J. A. Zurn Mfg. Co., Erie, Pa. Filed Jan. 31, 1952.

SANI-COAT

The word "Coat" as shown in the drawing is disclaimed apart from the mark.

For Plumbing and Drainage Products and Separating Equipment—Namely, Grease Separators, Grease and Solid Separators for Separating Solid Matter From Fluid Matter, and Separators for Separating a Lighter Fluid From a Heavier Fluid and for Separating Air From Fluid.

Claims use since Apr. 1, 1945.

Ser. No. 633,150. Farmland Irrigation Company, Inc., Fresno, Calif. Filed July 28, 1952.

STOUTBILT

Applicant claims ownership of Registration No. 508,676.

For Component Parts of Portable Irrigation Systems—Namely, Pipe Couplers and Valve Control Elbows for Sprinkler Irrigation Piping.

Claims use since Mar. 5, 1952.

Ser. No. 647,141. Automatic Devices Company, Allentown, Pa. Filed May 18, 1953.

FLEX-I-TRAC

For Curtain Tracks.

Claims use since Apr. 27, 1953.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 618,460. P. R. Mallory & Co., Inc., Indianapolis, Ind. Filed Sept. 6, 1951.

Nu-Wrinkle Cap

The word "Cap" is hereby disclaimed apart from the mark.

For Welding Electrodes, Tips, and Shanks.

Claims use since Apr. 20, 1951.

Ser. No. 640,003. P. R. Mallory & Co., Inc., Indianapolis, Ind. Filed Dec. 24, 1952.

"Nu-Twist"

For Welding Electrodes.

Claims use since May 2, 1952.

Ser. No. 640,544. Bethlehem Steel Company, Bethlehem, Pa. Filed Jan. 9, 1953.

BETHCON

Applicant claims ownership of Registrations Nos. 284,576, 304,584, and others.

For Galvanized Steel Sheets.

Claims use since Apr. 27, 1952.

Ser. No. 646,965. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed Apr. 27, 1953.

IRCAMET

For Corrosion-Resistant Steel Alloy.

Claims use since Mar. 13, 1947.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 627,476. Eric Vietze, doing business under the trade name and style of Vietze Luminescent Company, Baldwin, N. Y. Filed Apr. 2, 1952.

Day-Nite

The word "Neoglo" is disclaimed apart from the mark as shown.

For Paints, Pigments for Paints, Plastic Coating Compositions.

Claims use since Aug. 15, 1951.

Ser. No. 629,004. The Flintkote Company, New York, N. Y. Filed May 1, 1952.

FLINTDEK

For Plastic Anti-Slip Floor Coating.

Claims use since April 1943.

Ser. No. 635,560. Vita-Var Corporation, Newark, N. J. Filed Sept. 20, 1952.

VITA-CRAFT

Applicant claims ownership of Registrations Nos. 291,479, 314,842, and others.

For Ready-Mixed Paints, Enamels, and Varnishes.

Claims use since May 15, 1952.

Ser. No. 647,059. Wm. F. Zummach, Inc., Milwaukee, Wis. Filed May 14, 1953.

Love-le

For Paint.

Claims use since Apr. 8, 1953.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 614,058. Norden Laboratories, Lincoln, Nebr. Filed May 18, 1951.

EVACUIN

For Veterinary Medicine for Stimulating Uterine Contractions in Cases of Weak Labor and for Use as a Laxative.

Claims use since on or about Aug. 1, 1950.

Ser. No. 634,415. Lepetit, S. p. A., Milan, Italy. Filed Aug. 25, 1952.

Priority under Sec. 44(d). Italian application No. 4,720 filed Feb. 25, 1952, Registration No. 108,211, dated July 6, 1952.

NICOTIBINA

For Chemotherapeutic Anti-Tubercular Preparations.

Ser. No. 638,698. Commercial Solvents Corporation, New York, N. Y. Filed Nov. 28, 1952.

EFENAMYCIN

For Therapeutic Composition Containing Penicillin and Streptomycin.

Claims use since Nov. 7, 1952.

Ser. No. 644,818. Add-Life, Inc., New York, N. Y. Filed Apr. 7, 1953.

ADD-LIFE

For Vitamin and Food Supplement Capsules for Dogs and Cats.

Claims use since Mar. 17 1953.

Ser. No. 644,894. Brogden Laboratories, Inc., Miami, Fla. Filed Apr. 8, 1953.

BROGDEN LINIMENT

The drawing is lined for shading purposes only. No claim is made to the surname "Brogden" and the word "Liniment" apart from the mark as shown in the drawing.

For Liniment Indicated for External Use by Humans.

Claims use since February 1952.

Ser. No. 645,485. Imperial Chemical (Pharmaceuticals) Limited, London and Millbank, London, England. Filed Apr. 17, 1953.

AVLOCLOR

Applicant claims ownership of British Registration No. 685,010, dated Dec. 23, 1949; and United States Registration No. 553,887.

For Anti-Malarial and Amoebic Hepatic.

Ser. No. 645,619. Armour and Company, Chicago, Ill. Filed Apr. 21, 1953.

ARMYL

Applicant claims ownership of Registration No. 539,393.

For Oral Analgesic.

Claims use since Sept. 20, 1952.

Ser. No. 645,722. Marquette Corporation, Chicago, Ill. Filed Apr. 22, 1953.

Purize

For Medicated Eye Wash.

Claims use since Mar. 2, 1953.

Ser. No. 645,952. Ralph Childs, doing business as Child's Drug Co., Jonesboro, Ark. Filed Apr. 27, 1953.

BIZ-PEP

The word "Pep" is disclaimed apart from the mark as shown and used.

For Medicinal Preparation for the Relief of Upset Stomach and Simple Diarrhea.

Claims use since Mar. 11, 1952.

Ser. No. 647,642. Mathieson Chemical Corporation, New York, N. Y. Filed May 25, 1953.

OPHTHAINE

For Local Anesthetic.

Claims use since Feb. 16, 1953.

Ser. No. 647,719. Wm. P. Poythress & Co., Inc., Richmond, Va. Filed May 26, 1953.

mudrane

For Medicinal Preparation Sold in Tablet and Capsule Form Indicated for the Relief of Paroxysms of Bronchial Asthma.

Claims use since Feb. 25, 1953.

Ser. No. 647,743. The William A. Webster Company, Memphis, Tenn. Filed May 26, 1953.

AQUACHLORAL

For Suppositories Containing Chloral Hydrate.
Claims use since Oct. 9, 1952.

Ser. No. 647,745. The William A. Webster Company, Memphis, Tenn. Filed May 26, 1953.

SUPPRETTES

For Suppositories Containing Chloral Hydrate.
Claims use since May 6, 1953.

Ser. No. 647,879. Sandoz Chemical Works, Inc., New York, N. Y. Filed May 28, 1953.

DIHYDERGOT

Applicant claims ownership of Registration No. 422,590.
For Medicinal Preparation To Be Used in the Treatment of Migrane Headaches.
Claims use since May 13, 1953.

Ser. No. 647,880. Sandoz Chemical Works, Inc., New York, N. Y. Filed May 28, 1953.

PUROVERINE

For Medicinal Preparation Useful in the Treatment of Peripheral Vascular Diseases.
Claims use since May 13, 1953.

Ser. No. 647,894. Syntex Pharmaceutical Products Co., Inc., Hato Rey, P. R. Filed May 28, 1953.

SYNOVEX

For Hormone for the Fattening of Lambs.
Claims use since May 1, 1953.

CLASS 19
VEHICLES

Ser. No. 599,021. Rudge-Whitworth Limited, Nottingham, England. Filed June 13, 1950. (Sec. 2f.)

RUDGE-WHITWORTH

Applicant claims ownership of British Registrations Nos. 332,770 and 332,771, dated Apr. 13, 1911.
For Bicycles, Tricycles for Adults, and Parts Thereof.
Claims use since 1936; and first used in commerce between Great Britain and the United States since 1936.

Ser. No. 605,431. Lyon Metal Products, Incorporated, Aurora, Ill. Filed Oct. 25, 1950. (Sec. 2f as to "Lyon.")

Another LYON METAL PRODUCT

The drawing is lined to indicate the color red. The words "Another," "Metal," and "Product" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 514,394.
For Service Carts, Basket Trucks, Wheeled Chair Trucks Especially Designed for Receiving Chairs for Removal and Storage Purposes, and Tool Toters in the Nature of Wheeled Carts.
Claims use since Nov. 27, 1945, on the mark as shown; and since Dec. 1, 1913, as to "Lyon."

Ser. No. 636,601. Packard Motor Car Company, Detroit, Mich. Filed Oct. 14, 1952.

DEBONAIRE

For Vehicles—Namely, Passenger Automobiles.
Claims use since on or about Sept. 22, 1952.

Ser. No. 639,390. Plastic Industries, Inc., Kansas City, Mo. Filed Dec. 12, 1952.

Playcraft

For Plastic Boats—Namely, Power Boats, Row Boats, and Canoes.
Claims use since Mar. 17, 1952.

CLASS 21
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 610,725. Whirlpool Corporation, St. Joseph, Mich. Filed Mar. 1, 1951.

"Flikit"

For Electrical Ignition System Comprising a Control Switch, Glow Coil, and Pilot Burner Adapted To Light the Main Burner of Gas Fired Clothes Dryers.
Claims use since Jan. 25, 1951.

Ser. No. 632,425. International Electric Company, Chicago, Ill. Filed July 11, 1952.

fence-O-matic

The term "Fence" is disclaimed except when used in connection with the remainder of the mark.
For Electric Fences and Electric Fence Controllers.
Claims use since February 1952.

Ser. No. 638,889. Alfa Photo Corp., New York, N. Y. Filed Dec. 3, 1952.



The mark consists of a heavily bordered triangle, the apex of which is intersected by a line parallel to the base of the triangle and the line forming the base for three tilted triangles, the sides of which are alternately relatively light and relatively heavy.
For Incandescent Lamps.
Claims use since Sept. 22, 1952.

Ser. No. 639,475. Kaye-Halbert Corporation, Culver City, Calif. Filed Dec. 15, 1952.



For Television Receiving Sets.
Claims use since Aug. 15, 1952.

Ser. No. 642,534. Electronic Heating Corp., Newton, Mass. Filed Feb. 20, 1953.

RAYSEAL

For High Frequency Electronic Machine To Bond Pieces of Plastic Together by Heat.
Claims use since on or about November 1947.

Ser. No. 643,679. J. D. Gould Company, Indianapolis, Ind. Filed Mar. 16, 1953.

VELVETROL

For Solenoid Controlled Valves.
Claims use since Feb. 26, 1953.

Ser. No. 646,272. Columbia Broadcasting System, Inc., New York, N. Y. Filed May 1, 1953.

CBS-Columbia

Applicant claims ownership of Registration No. 381,572.
For Radio and Television Receiving Sets, Electric Phonographs and Combinations of the Same, Such as Radio-Phonographs, Television-Phonographs, and Television-Radio-Phonographs.
Claims use since July 1951.

Ser. No. 647,254. Winchester Industries, Inc., River Edge, N. J. Filed May 18, 1953.

FAXCOA

For Facsimile Communication and Duplicating Equipment.
Claims use since Feb. 27, 1953.

Ser. No. 647,291. Good-All Electric Manufacturing Company, Ogallala, Nebr. Filed May 19, 1953.

MARBELITE

For Electric Capacitors.
Claims use since June 2, 1951.

CLASS 22
GAMES, TOYS, AND SPORTING GOODS

Ser. No. 631,255. John Russ, Canton, Ohio. Filed June 16, 1952.

SKEENO

For Games Including a List of Questions So Worded That They May Be Answered by a Number or an Adjective or an Adverb of a Number, and a Plurality of Answer Boards Bearing Spaced Numbers, and Markers for the Numbers on the Answer Boards.
Claims use since Apr. 22, 1952.

Ser. No. 633,188. Zing Manufacturing Company, San Jose, Calif. Filed July 28, 1952.

ZING-SHOT

The word "Shot" and the representation of the arrow are disclaimed apart from the mark.
For Sling Shots and Arrow Shooters.
Claims use since Apr. 10, 1952.

Ser. No. 634,496. Fred Stark, Chicago, Ill. Filed Aug. 26, 1952.

Mary Xmas

For Toys and Novelties Filled With Edible Candy.
Claims use since October 1946.

Ser. No. 635,035. Ideal Toy Corporation, Hollis, N. Y. Filed Sept. 9, 1952.

BABY JOAN

For Dolls.
Claims use since Aug. 27, 1952.

Ser. No. 635,036. Ideal Toy Corporation, Hollis, N. Y. Filed Sept. 9, 1952.

BABY JO-ANNE

For Dolls.
Claims use since Aug. 27, 1952.

Ser. No. 637,152. John C. Stickley, doing business as Jaystik Sales, Atlanta, Ga. Filed Oct. 24, 1952.

WONDER DANCERS

The word "Dancers" is disclaimed apart from the mark as shown.
For Puppets.
Claims use since Aug. 29, 1950.

Ser. No. 639,271. Gee Kaye Educational Toys, Inc., New York, N. Y. Filed Dec. 10, 1952.

MATH WIZZ

For Educational Question and Answer Game.
Claims use since Nov. 20, 1952.

Ser. No. 641,363. Western Lace and Line Company, also doing business as Western Fishing Line Co., Glendale, Calif. Filed Jan. 26, 1953.

"W-40"

For Fishing Line.
Claims use since Feb. 1, 1952.

Ser. No. 642,158. Stanley B. Newhall, doing business as Newhall Game Company, Tucson, Ariz. Filed Feb. 12, 1953.

BLIND

BOGEY

The representation of a golf ball is disclaimed apart from the mark as shown.
For Game Device of the Parlor Golf Variety.
Claims use since Dec. 30, 1952.

Ser. No. 642,417. Parker Brothers, Inc., Salem, Mass. Filed Feb. 18, 1953.

KEYWORD

For Board Game Played With Lettered Pieces.
Claims use since Jan. 20, 1953.

Ser. No. 645,312. Alice R. Huff, Concord, Calif. Filed Apr. 15, 1953.

QUIZMO

For Games of the Nature of Lotto Using Cards and Markers.
Claims use since Nov. 14, 1949.

Ser. No. 645,808. Samuel L. Jordan, Montgomery, Ala. Filed Apr. 23, 1953.

PUR-DR-T

For Mechanical Exercising Devices of the Type Embodying a Treadle Bar Mounted for Universal Rotation.
Claims use since Aug. 20, 1952.

Ser. No. 647,773. Goldberger Doll Manufacturing Co. Inc., Brooklyn, N. Y. Filed May 27, 1953.

SUSAN STROLLER

Applicant makes no claim to the word "Stroller" standing alone but only to the words "Susan Stroller" used in combination.
For Dolls.
Claims use since Oct. 25, 1952.

Ser. No. 648,133. Rand McNally & Company, Skokie, Ill. Filed June 2, 1953.

KON-TIKI

For Toy Model Raft Construction Kits.
Claims use since May 6, 1953.

Ser. No. 650,749. J. Swedlin, Inc., New York, N. Y. Filed July 23, 1953.

Bye Bye BEAGLE

No claim is made to the word "Beagle" apart from the mark shown in the drawing.
For Stuffed Toy Dogs.
Claims use since May 14, 1953.

Ser. No. 651,036. Auburn Rubber Company, Inc., Auburn, Ind. Filed July 29, 1953. (Sec. 2f.)

AUBURN

For Rubber, Composition, Plastic, and Cardboard Toys—Namely, Toy Train Sets, Tool Kits, Cowboy Ranger Sets, Building Blocks, Automobiles, Motorcycles, Knives,

Pistols, Hammers, and Farm Sets, Including Farm Implements and Buildings, Animals, Farm Figures, Wagons, and Tractors.
Claims use since Mar. 1, 1936.

Ser. No. 652,224. Plastic Service Company, Los Angeles, Calif. Filed Aug. 24, 1953.

twistie

For Toy Animals, Figures, and Dolls.
Claims use since Apr. 16, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 605,857. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Nov. 3, 1950.

MATADOR

For Gasoline Engine Power Sprayer Used for Applying Insecticides, Fungicides, Agricultural Chemicals of All Kinds, Whitewash, Cold Water Paints, Liquids, Oils, and Sediment-Bearing Solutions.
Claims use since Apr. 30, 1950.

Ser. No. 606,489. Roth Schlenger Incorporated, Newark, N. J. Filed Nov. 16, 1950.

R&S

The drawing is lined for shading.
For Fuel Pumps, Carburetors, Water Pumps, Bearings, Mufflers, Tail Pipes, Exhaust Pipes, Rebuilt Motors, Clutch Plates and Assemblies, Tire Pumps, Elevating Jacks, Tools—Namely, Hammers, Screw Drivers, Wrenches, Pliers, Punches, Chisels, Files, Hack Saws, Vises, Clamps.
Claims use since July 1, 1919.

Ser. No. 608,453. Food Machinery and Chemical Corporation, San Jose, Calif. Filed Jan. 6, 1951.

fmc

Applicant claims ownership of Registrations Nos. 292,076, 407,964 and others.
For Fruit and Vegetable Handling and Treating Equipment—Namely, Belt, Chain, and Roller Conveyors, Elevators, Shakers, Sorting Machines, Graders and Grading Tables, Sizing Machines, Marking Machines and Marking Machine Die Cleaners, Color and Wax Applicators, Rotary Brush Cleaners and Polishers, Whirlpool, Rotary Screen, and Flood Washers, Brass Roll Water Eliminators, Steam Peelers, Chopping Machines, Juice Extractors, Combined Fruit Peeling, Coring, and Seed-Celling Machines, Hot Water and Steam Blanchers; Apparatus for Filling Cans With Food Products Such as Fruit and Vegetables, Fruit and Vegetable Juices, Soups and Meats, Brining and Syruping Machines and Exhaust Boxes; Can Conveyors and Elevators, Can Washers, Air Blast Can Driers; Packing Equipment—Namely, Bagging Machines, Nailing Machines, Box-Lidding and Strapping Machines, Box Presses and Box Conveyors; Agricultural and Horticultural Spraying and Dusting Apparatus, Alfalfa Mowing and Crushing Machines and Potato Digging, Cleaning, and Bagging Machines; Garden Tractors and Garden Tractor Implements—Namely, Lawn Mowers, Ploughs, Cultivators, Seeders, Snow Ploughs, and Harrows, Power Lawn Mowers, High and Low-Pressure Portable and Mobile Fire Fighting Equipment.
Claims use since February 1948.

Ser. No. 620,118. Western Machine Tool Works, Holland, Mich. Filed Oct. 17, 1951. (Sec. 2f.)

Garvin

Applicant claims ownership of Registration No. 509,230.
For Machinery—Namely, Nut Tapping Machine.
Claims use since 1899.

Ser. No. 621,045. Alto Corporation, Harrisburg, Pa. Filed Nov. 9, 1951.

ALTO

THE PEAK OF PERFECTION

Exclusive rights to the words "The Peak of Perfection" are not claimed apart from the mark shown.
For Slicing Machines Used for Slicing Dough Products—Namely, Bread and Rolls.
Claims use since May 15, 1950.

Ser. No. 623,688. Sterling Ring Traveler Company, Fall River, Mass., assignor to National Ring Traveler Company, Pawtucket, R. I., a corporation of Rhode Island. Filed Jan. 16, 1952. (Sec. 2f.)

STERLING

For Ring and Twister Travelers.
Claims use since at least Jan. 1, 1900.

Ser. No. 624,933. Crucible Steel Company of America, New York, N. Y. Filed Feb. 14, 1952.

CSA

For Parts for Pumps for Internal Combustion Engines—Namely, Housings for Pumps for Aircraft Engines.
Claims use since Oct. 31, 1950.

Ser. No. 626,574. Byron Jackson Co., Los Angeles, Calif. Filed Mar. 17, 1952.

P B

For Well Tools—Namely, Casing Protectors, Drill Pipe Protectors, Tubing Protectors, Sucker Rod Protectors, Drill Pipe Stabilizers, Kelly Sub Stabilizers, Apparatus for Installing and Removing Casing Protectors, Drill Pipe Protectors and Kelly Sub Stabilizers, Thread Protectors, Pipe Wipers, Kelly Wipers, Sucker Rod Wipers, Wire Line Wipers, Tubing Wipers, Wire Line Guides, Dead-Line Stabilizers, Swivel Bail Bumpers, Elevator Link Bumpers, Travelling Block Bumpers, Crown Block Bumpers, Mud Guns, Swabs, and Well Seals—Namely, Annular Covers on Well Casing Used Temporarily To Prevent Articles From Falling Into the Well Annulus During Casing Running, and Parts Therefor.

Claims use since May 1, 1950.

Ser. No. 629,703. Ulvsunda Verkstäder Aktiebolag, Stockholm, Sweden. Filed May 14, 1952.

UVA

Applicant claims ownership of Swedish Registration No. 51,335, dated Jan. 30, 1939.

For Electro-Hydraulically Operated Grinding Machines and Wheel-Heads Therefor for Grinding Metallic Work Pieces, Especially Work Pieces of Ferrous Metal and Steel.

Claims use since on or about Oct. 4, 1938; and since on or about May 5, 1951, in commerce between Sweden and the United States.

Ser. No. 631,578. Regent Mfg. Co. Inc., Downey, Calif. Filed June 21, 1952.



REGENT ALLIGATOR JACK

Applicant hereby disclaims the word "Jack" apart from the mark as shown on the drawing.

For Lifting Jacks.

Claims use since on or about Apr. 11, 1952.

Ser. No. 637,289. Herbert M. Salentine, doing business under the fictitious name and style of Salentine Hydraulic Pumping Equipment Co., Los Angeles, Calif. Filed Oct. 28, 1952. (Sec. 2f.)

VARI-CYCLE

For Hydraulic Oil Well Pumping Units.

Claims use since during October 1937.

Ser. No. 638,158. Read Standard Corporation, New York, N. Y. Filed Nov. 15, 1952.

INGREDIATOR

For Bakery Mixing Machines for Emulsifying Water and Light Ingredients of Dough Mixture, Including a Filtering Means and a Pump for Discharging Mixture Into Dough Machines.

Claims use since July 20, 1951.

Ser. No. 638,159. Read Standard Corporation, New York, N. Y. Filed Nov. 15, 1952.

PAN-O-FILM

The word "Pan" is disclaimed apart from the mark as shown.

For Baking Pan Greasing Machine.

Claims use since July 27, 1951.

Ser. No. 638,185. American Flexible Coupling Company, Erie, Pa. Filed Nov. 17, 1952.

Amerigear

Applicant claims ownership of Registration No. 531,759.

For Mechanical Shaft Couplings.

Claims use since Aug. 1, 1952.

Ser. No. 638,186. American Flexible Coupling Company, Erie, Pa. Filed Nov. 17, 1952.

THE Amerigear

Applicant claims ownership of Registration No. 531,759.

For Mechanical Shaft Couplings.

Claims use since Aug. 1, 1952.

Ser. No. 638,187. American Flexible Coupling Company, Erie, Pa. Filed Nov. 17, 1952.

THE Amerigear

FULLY CROWNED TOOTH

The words "Fully Crowned Tooth" as shown in the drawing are disclaimed apart from the mark. Applicant claims ownership of Registration No. 531,759.

For Mechanical Shaft Couplings.

Claims use since Aug. 1, 1952.

Ser. No. 644,806. Standard Steel Works, North Kansas City, Mo. Filed Apr. 6, 1953. (Sec. 2f as to "Standard.")



The words "Kansas City Mo." and "Steel Works" are disclaimed apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 422,499.

For Road and Street Construction and Maintenance Equipment—Namely, Asphalt Distributors, Spray Bars Therefor, Road Rollers, and Land Terracing Machines.

Claims use since August 1926.

Ser. No. 646,375. Jack Feder, Forest Hills, N. Y. Filed May 4, 1953.

Admiration

For Sewing Machine and Sewing Machine Parts.

Claims use since January 1953.

Ser. No. 646,410. Lipe-Rollway Corporation, Syracuse, N. Y. Filed May 4, 1953.



Applicant claims ownership of Registration No. 532,353.

For Automotive Friction Clutches.

Claims use since Aug. 1, 1948.

Ser. No. 646,444. Vittorio Necchi Società Per Azioni, Pavia, Italy, and New York, N. Y. Filed May 4, 1953. (Sec. 2f.)

NECCHI

Applicant claims ownership of Registration No. 563,981.

For Sewing Machines.

Claims use since in the year 1925 in Italy; and since Oct. 16, 1947, in commerce between Italy and the United States.

Ser. No. 646,449. Kidder Press Company, Inc., Dover, N. H. Filed Apr. 20, 1953.

CELLOPRINTER

For Printing Presses.

Claims use since Mar. 16, 1953.

Ser. No. 646,697. Titan Chain Saws, Inc., Seattle, Wash. Filed May 8, 1953.

TITAN

Applicant claims ownership of Registrations Nos. 431,564 and 329,990.

For Chain Saws.

Claims use since Oct. 1, 1941.

Ser. No. 646,971. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed May 13, 1953.

MOTORPUMP

The right to the exclusive use of the words "Motor" and "Pump" apart from the mark as shown is disclaimed. Applicant claims ownership of Registration No. 294,183.

For Motor-Driven Pumps.

Claims use since Oct. 9, 1931.

Ser. No. 647,039. Pope Machinery Corporation, Haverhill, Mass. Filed May 14, 1953. (Sec. 2f.)

POPE

Applicant claims ownership of Registrations Nos. 295,432 and 431,356.

For Spindles, Vertical High Speed Universal Milling Machines and Precision Spindle Units.

Claims use since May 14, 1940.

Ser. No. 647,313. Nordberg Manufacturing Company, Milwaukee, Wis. Filed May 19, 1953.



TARPON

For Internal Combustion Engines.

Claims use since Jan. 9, 1953.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 629,488. Gustin-Kramer Company, Boston, Mass. Filed May 10, 1952. (Sec. 2f as to "Hemlast.")

HEMLAST
"Bound to be best"
by GUSTIN-KRAMER CO. BOSTON 15, MASS.

Applicant hereby disclaims the wording "Bound To Be Best" and the trade name and address "by Gustin-Kramer Co. Boston 15, Mass." apart from the mark as shown.

For Ironing Board Covers and Pads and Combinations of Ironing Board Covers and Pads.

Claims use since Mar. 3, 1947.

Ser. No. 631,829. Trio Novelty Mfg. Corp., New York, N. Y. Filed June 26, 1952.

Miss Presswell

For Ironing Board Pad and Cover.

Claims use since June 10, 1952.

Ser. No. 636,874. Ayr-Mor Machinery Company, Inc., Chicago, Ill. Filed Oct. 20, 1952.

AYR-MOR

For Dry Cleaning Machines and Dry Cleaning Tumblers.

Claims use since 1932.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 616,148. Universal Chemists, Inc., sometimes doing business as Gale Hall Engineering, Boston, Mass.; assignor to Gale Hall Engineering, Inc., Exeter, N. H., a corporation of New Hampshire. Filed July 5, 1951.

"MOTOR-MONITOR"

No claim is made to the word "Motor," apart from the mark shown. Applicant claims ownership of Registration No. 544,347.

For Gauge To Indicate the General Condition and Efficiency of Internal Combustion Motor.

Claims use since Mar. 16, 1951.

Ser. No. 620,329. Telecomputing Corporation, Burbank, Calif. Filed Oct. 22, 1951.

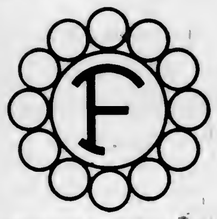
TELEREADEX

Applicant claims ownership of Registration No. 572,488.

For Apparatus for Accurately Measuring Distances on 35 mm. Film Along Two Orthogonal Axes.

Claims use since July 5, 1951.

Ser. No. 629,157. Fisher Scientific Company, Pittsburgh, Pa. Filed May 3, 1952.



For Nefluoro-Photometer, an Analytical Instrument That Permits Measurements by Colorimetry, Fluorometry, and Nephelometry; Heavy Duty Balance, a Laboratory Balance for Capacity of 2000 Grams; AC Model Electrophotometer, an Instrument Used for Colorimetric Analysis; Electro-Hemometer, an Instrument Used for the Colorimetric Measurement of Hemoglobin; Flow Meter, a Laboratory Instrument Used To Measure the Flow of Gases.

Claims use since June 4, 1951.

Ser. No. 630,641. Weston Electrical Instrument Corporation, Newark, N. J. Filed June 2, 1952.

MOISTURONIC

For Electrical Instruments and Apparatus for the Measurement of the Moisture Content of Materials.

Claims use since Mar. 5, 1951.

Ser. No. 632,802. Sterling-Howard Corporation, New York, N. Y. Filed July 19, 1952.

slavey

For Photographic Apparatus—Namely, an Electronic Instrument Employing a Photo-Electric Cell Controlling a Flashlamp Circuit Made Operative by the Light From a Camera-Borne Master Flashlamp.

Claims use since Dec. 10, 1949.

Ser. No. 636,549. Accuracy Scientific Instrument Co., Philadelphia, Pa. Filed Oct. 13, 1952.

PINSECURE

For Hydrometers.

Claims use since on or about Apr. 15, 1950.

Ser. No. 637,488. Mathieson Chemical Corporation, Baltimore, Md. Filed Nov. 1, 1952.

DRI-ADER

No claim is made to the word "Dri" insofar as it is equivalent to the word "Dry" apart from the mark as shown.

For Plastic Measuring Cup.

Claims use since May 15, 1952.

Ser. No. 639,199. Rochelle M. Stein, doing business under the name and style of Rochelle Enterprises, Chicago, Ill. Filed Dec. 8, 1952.

SPEC-CADDY

The term "Spec" is disclaimed apart from the mark as shown.

For Pouch for Holding a Pair of Spectacles.

Claims use since Nov. 11, 1952.

Ser. No. 641,590. The Lufkin Rule Company, Saginaw, Mich. Filed July 15, 1952. (Sec. 2f.)

"DERRICK"

For Steel Measuring Tapes.

Claims use since 1936.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 643,504. Pennwood Numechron Co., Pittsburgh, Pa. Filed Mar. 11, 1953.

CALCHRON

Applicant claims ownership of Registrations Nos. 388,061 and 574,160.

For Electrically Operated Calendar Clocks.

Claims use since Feb. 12, 1953.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 637,787. Oneida Ltd., Sherrill and Oneida, N. Y. Filed Nov. 7, 1952.

REIGNING BEAUTY

The word "Beauty" is disclaimed apart from the mark as shown.

For Sterling Silver Flatware and Hollowware.

Claims use since Sept. 22, 1952.

Ser. No. 641,998. H. Weinreich Company Inc. (also known as H. Weinreich Co. Inc.), Philadelphia, Pa. Filed Feb. 9, 1953.

Winey-Teens

The applicant disclaims the word "Teens" alone and apart from the mark as shown. Applicant claims ownership of Registrations Nos. 429,256, 429,258, and 437,746.

For Bracelets, Brooches, Finger Rings, Earrings, Lockets, Necklaces, Ornamental Pins Wholly or Partly Plated With Precious Metals, Anklets, and Barrettes.

Claims use since on or about Dec. 1, 1952.

Ser. No. 641,999. H. Weinreich Company Inc. (also known as H. Weinreich Co. Inc.), Philadelphia, Pa. Filed Feb. 9, 1953.



The applicant disclaims the word "Teens" alone and apart from the mark as shown. Applicant claims ownership of Registrations Nos. 429,256, 429,258, and 437,746.

For Bracelets, Brooches, Finger Rings, Earrings, Lockets, Necklaces, Ornamental Pins Wholly or Partly Plated With Precious Metals, Anklets, and Barrettes.

Claims use since on or about Dec. 1, 1952.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 626,369. Samuel M. Dell & Co., Inc., Baltimore, Md. Filed Mar. 13, 1952.

VARDELL

Applicant claims ownership of Registration No. 198,643.

For Paint and Similar Type Protective and Decorative Coating and Surfacing Brushes.

Claims use since May 10, 1920.

Serial No. 651,930. Minnesota Paints, Inc., doing business as Chi-Namel Paint and Varnish Company, Minneapolis, Minn. Filed Aug. 17, 1953.

RESISTOL

Applicant claims ownership of Registration No. 221,238.

For Paint Brushes.

Claims use since Jan. 17, 1938.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 618,628. Cresca Company, Inc., New York, N. Y. Filed Sept. 11, 1951.

The CRESCA PARTY MART

No claim is made herein for the word "Mart" apart from the mark as shown.

For Ornamental Food Display Stand Provided With Shelves for the Display of Foods.

Claims use since April 1950.

Ser. No. 627,158. Welcraft Products Co., Inc., North Liberty, Ind. Filed Mar. 27, 1952.

WELCRAFT Sport Seat

The words "Sport" and "Seat" are disclaimed apart from the mark as shown.

For Back Rests for Seats.

Claims use since Oct. 5, 1951.

Ser. No. 632,314. New York Rubber Corporation, New York, N. Y. Filed July 9, 1952.



Applicant claims ownership of Registrations Nos. 222,911, 223,815, and others.

For Inflatable Mattresses, Cushions, and Pillows.

Claims use since September 1924.

Ser. No. 637,399. John Raffael, Sr., doing business as Middlesex Reed Furniture Company, Wakefield, Mass. Filed Oct. 30, 1952. (Sec. 2f.)

MIDDLESEX of WAKEFIELD

For Rattan Furniture—Namely, Sofas, Chairs, and Tables; and Boudoir Chairs.

Claims use since 1930.

Ser. No. 641,840. Illinois Fibre Specialty Co., Chicago, Ill. Filed Feb. 6, 1953.

FEATHER-FLEX

For Fibre Padding Comprising Fibrous Layers of Glass, Cotton, Celotex, Jute, Paper, Rubber, Hair, and the Like, Shaped and Cut to Size for Chair Backs and Seats, and Upholstered Furniture.

Claims use since on or about Dec. 1, 1952.

Ser. No. 643,300. Douglas Furniture Corporation, Chicago, Ill. Filed Mar. 9, 1953.

FRESCO

For Kitchen and Dinette Tables and Chairs.
Claims use since Feb. 2, 1953.

Ser. No. 646,829. The United States Bedding Co., St. Paul, Minn. Filed May 11, 1953.



For Mattresses, Box Springs, Crib Mattresses, Hollywood Beds, Bed Springs, Cots, Pillows, Sofa Beds, Bunk Beds, Lounges, Studio Couches, Davenbeds, Chairs, and Love Seats.
Claims use since January 1942.

Ser. No. 646,922. E. Alberta Brenner, Wallingford, Conn. Filed May 13, 1953.

CHAPELETTE

For Devotional Desks.
Claims use since on or about Dec. 10, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 586,981. Mitchell Manufacturing Company, Chicago, Ill. Filed Oct. 28, 1949. (Sec. 2f.)

MITCHELL

Applicant claims ownership of Registration No. 511,119.
For Electrically Operated Room Air Conditioning Units.
Claims use since May 1, 1946.

Ser. No. 628,293. Popper & Sons, Inc., also doing business under the name Perfektum Products Co., New York, N. Y. Filed Apr. 18, 1952.

PerfeKtum

Applicant claims ownership of Registrations Nos. 441,994 and 572,882.
For Machines for the Sealing by Gas Heat, of Small Glass Containers, Ampuls, Vials, Tubes, and Similar Glass Items.
Claims use since Dec. 3, 1924.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 635,966. Green Thumb Products, Toledo, Ohio. Filed Sept. 30, 1952.

GREEN THUMB

Applicant claims ownership of Registration No. 407,413.
For Garden Hose.
Claims use since Aug. 22, 1952.

Ser. No. 643,048. Richmond Rubber Company, Inc., Richmond, Va. Filed Mar. 3, 1953. (Sec. 2f as to "Richmond.")

RICHMOND DOUBLE PURPOSE

No exclusive claim is made to the words "Double Purpose" except for the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 505,468, 512,542, and others.
For Pneumatic Rubber Tires for Trucks.
Claims use since Dec. 26, 1952, as to the mark shown; and since 1937 as to "Richmond."

Ser. No. 646,472. Holyoke Belting Company, Holyoke, Mass. Filed May 5, 1953.

HOL-CHROME

No registration rights are claimed for the word "Chrome" separate and apart from the mark as a whole.
For Leather Belting.
Claims use since Oct. 27, 1949.

Ser. No. 647,970. United States Steel Corporation, Pittsburgh, Pa. Filed May 29, 1953.

USS

Applicant claims ownership of Registrations Nos. 558,443 and 555,138.
For Conveyor Belting.
Claims use since 1938.

Ser. No. 648,187. Russell C. Parrish, doing business as Telsex Company, Springfield, Ohio. Filed June 3, 1953.

HARVESTER

For Pneumatic Tires and Tubes.
Claims use since May 25, 1953.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 629,527. H. & A. Selmer, Inc., Elkhart, Ind. Filed May 10, 1952.

FRESHIE

For Twirling Batons.
Claims use since February 1940.

Ser. No. 629,528. H. & A. Selmer, Inc., Elkhart, Ind. Filed May 10, 1952.

JUNIOR PRO

For Twirling Batons.
Claims use since July 1950.

Ser. No. 630,037. H. & A. Selmer, Inc., Elkhart, Ind. Filed May 21, 1952.

TUFFY

For Twirling Batons.
Claims use since March 1951.

Ser. No. 632,949. Musica Argentina e Internacional Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina. Filed July 23, 1952.

PAMPA

Applicant claims ownership of Argentinean Registration No. 249,536, dated Aug. 18, 1947.
For Grooved Phonograph Records.
Claims use since in the month of August 1950 in the Argentine Republic; and in the month of April 1951 in commerce between the United States and Argentina.

Ser. No. 637,925. G. C. Jenkins Co., Decatur, Ill. Filed Nov. 12, 1952.



The line detail in the drawing represents gold color, and the cross hatching in the letters represents gold color, while the field is yellow color. The words "Musical Products" and the outline representation of the United States are disclaimed apart from the mark as shown.
For Celesta and Celestette, Piano Keyboard Instruments, Chimes, Marimba, Vibra Bells, Kettle Drums, Xylophones, Glockenspiels or Band Lyras, Metal Mutes for Band Instruments, and Tuning Bars.
Claims use since Sept. 20, 1937.

Ser. No. 648,588. Columbia Records Inc., Bridgeport, Conn. Filed June 11, 1953.

EPIC

For Grooved Phonograph Records.
Claims use since June 9, 1953.

CLASS 37

PAPER AND STATIONERY

Ser. No. 581,701. Barclay Tissue Corporation, Brooklyn, N. Y. Filed July 9, 1949. (Sec. 2f.)

BARCLAY

For Toilet Tissue.
Claims use since June 1941.

Ser. No. 600,000. Georgia B. Turner, Oklahoma City, Okla. Filed June 29, 1950.

Bibkins

For Paper Bibs.
Claims use since June 22, 1950.

Ser. No. 628,964. The Smead Manufacturing Company, Hastings, Minn. Filed Apr. 30, 1952.

CELL-U-WELD

For Correspondence Folders, Expanding File Folders, Follow-up File Folders, Vertical File Guide Pockets, Pocket File Guides, and Vertical File Guides.
Claims use since Mar. 20, 1949.

Ser. No. 636,463. City Stores Company, Wilmington, Del., and Philadelphia, Pa. Filed Oct. 10, 1952.

Cisco

For Facial Tissues and Toilet Tissues.
Claims use since July 21, 1952.

Ser. No. 636,588. Columbia River Paper Mills, Portland, Oreg. Filed Oct. 14, 1952.

TIMBERLINE CRAFT SAFETY

The word "Safety" is disclaimed apart from the composite mark. Applicant claims ownership of Registration No. 563,119.
For Safety Paper, for Use Mainly in the Printing of Checks.
Claims use since July 30, 1952.

Ser. No. 637,547. Paterson Pacific Parchment Company, San Francisco, Calif. Filed Nov. 3, 1952.

PAT-A-MAT

Applicant disclaims the word "Mat" apart from the mark as a whole.
For Paper Bath Mat.
Claims use since January 1950.

Ser. No. 642,715. Windsor Pen Corp., New York, N. Y. Filed Feb. 24, 1953.

'JET-O-MATIC'

For Fountain Pens, Ball Point Pens, Mechanical Pencils, and Combinations Thereof in Sets.
Claims use since on or about Nov. 21, 1952.

Ser. No. 644,739. Crown Zellerbach Corporation, San Francisco, Calif. Filed Apr. 6, 1953.

MONTEREY GLOSS

The term "Gloss" is disclaimed apart from the mark. Applicant claims ownership of Registration No. 512,524.
For Coated Book Paper.
Claims use since July 1948.

Ser. No. 646,713. George D. Champion, doing business as Champion Dry Coaster Co., Cincinnati, Ohio. Filed May 11, 1953.



For Coasters in the Nature of Blotter Tablets for Use Under Beverage Glasses.
Claims use since Nov. 20, 1950.

Ser. No. 647,040. Puritan Stationery Company, Inc., Philadelphia, Pa. Filed May 14, 1953.

Colonade

For Writing Paper and Mailing Envelopes, and Tablets of Writing Paper.
Claims use since on or about May 1950.

Ser. No. 647,041. Puritan Stationery Company, Inc., Philadelphia, Pa. Filed May 14, 1953.

Montevista

For Writing Paper and Mailing Envelopes.
Claims use since on or about March 1950.

Ser. No. 647,042. Puritan Stationery Company, Inc., Philadelphia, Pa. Filed May 14, 1953.

Pentime

For Writing Paper and Mailing Envelopes.
Claims use since on or about November 1951.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 637,730. Smiths, Incorporated, Fort Worth, Tex. Filed Nov. 6, 1952.



For Books.
Claims use since Oct. 27, 1952.

Ser. No. 639,399. The Sporting Goods Publishing Company, doing business as Charles C. Spink and Son, St. Louis, Mo. Filed Dec. 12, 1952. (Sec. 2f.)

THE SPORTING GOODS TRADE DIRECTORY

Applicant claims ownership of Registrations Nos. 319,108, 534,819, and others.
For Yearly Directory.
Claims use since 1907.

Ser. No. 647,222. Norcross, Inc., New York, N. Y. Filed May 18, 1953.

YUM YUM

For Greeting Cards and Printed Greeting Folders.
Claims use since on or about May 6, 1953.

Ser. No. 647,312. The New American Library of World Literature, Inc., New York, N. Y. Filed May 19, 1953.

TRIPLE VOLUME SIGNET

No claim is made to the exclusive right to the use of the words "Triple Volume" apart from the mark shown. Applicant claims ownership of Registrations Nos. 511,927, 527,266, and others.
For Books.
Claims use since Mar. 28, 1952, as to the mark shown; and since Feb. 18, 1948, as to the mark "Signet."

Ser. No. 647,554. Stamats Publishing Company, Cedar Rapids, Iowa. Filed May 22, 1953.

Ownership

For Periodical Publication for the Real Estate Business.
Claims use since Apr. 1, 1953.

Ser. No. 647,623. Hillman Periodicals, Inc., New York, N. Y. Filed May 25, 1953.

THE GOLDMINE

For Regular Magazine Department, Feature, or Section Published Bi-Weekly.
Claims use since on or about May 8, 1953.

Ser. No. 647,688. Fiction House, Inc., Stamford, Conn. Filed May 26, 1953.



For Magazine.
Claims use since Apr. 15, 1953.

CLASS 39

CLOTHING

Ser. No. 604,793. Walter W. Moyer Company, Ephrata, Pa. Filed Oct. 12, 1950.

MO-VAL

For Women's and Children's Underwear.
Claims use since Sept. 8, 1950.

Ser. No. 619,539. Fiesta Sportswear, Inc., Phoenix, Ariz. Filed Oct. 3, 1951.



No claim is made to the word "Sportswear" apart from the mark in its entirety.
For Ladies' Blouses, Skirts, Jackets, Vestees, and Coats.
Claims use since Mar. 1, 1946.

Ser. No. 624,580. Adelaide Dresses, Inc., St. Louis, Mo. Filed Feb. 6, 1952.

Adelaide

For Ladies', Misses', and Juniors' Coats, Suits, Hosiery, Robes, Pajamas, and Nightgowns.
Claims use since Jan. 1, 1927.

Ser. No. 625,392. The B. V. D. Company, Inc., New York, N. Y. Filed Feb. 23, 1952. (Sec. 2f.)

MADE FOR THE BVD BEST RETAIL TRADE

Applicant claims ownership of Registrations Nos. 49,931, 77,436, and others.
For Clothing for Men as Follows: Underwear of Woven and Textile Fabrics—Namely, Shirts, Drawers, Union Suits, Shorts, and Ski Underwear; Pajamas; Athletic Outer Clothing—Namely, Athletic Shirts and Running Pants; Briefs; Combined Girdle and Knit Shorts; Bathing Suits; Bathing Trunks; Sweaters; Negligee Shirts; Sport Shirts; Night Shirts; Robes for Personal Wear; Beachwear—Namely, Woven and Knit Shirts; Handkerchiefs; Clothing for Women as Follows: Bathing Suits; Beachwear—Namely, Slacks, Shirts, and Shorts, Capes, Scarfs for Personal Wear, Bandanas; Sport Shirts; Sweaters; Housecoats; Pajamas; Robes for Personal Wear; Knit Ski Shirts and Shorts; Union Suits; Handkerchiefs; Clothing for Children as Follows: Underwear; Bathing Suits; Bathing Trunks; Waist Suits.
Claims use since 1893.

Ser. No. 628,092. Clyde Associates Incorporated, New York, N. Y. Filed Apr. 15, 1952.

Cracker Barrel
FASHIONS

No claim is made to the exclusive use of the term "Fashions" apart from the rest of the mark as shown.
For Sportswear—Namely, Leather Sandals, Moccasins, and Denim Shoes, Peaked Caps of Sail Cloth and/or Denim, and Straw Hats, for Men and Women; Corduroy and Denim Shirts, Outer Shorts and Slacks, and Gingham, Denim, and/or Velvet Jackets, Vests, and Outer Shirts for Men and Women; Outer Shorts, Outer Shirts, and Cloth and Leather Belts for Children; Skirts and Blouses for Women.
Claims use since June 2, 1950.

Ser. No. 630,520. Steinberg Bros., New York, N. Y. Filed May 29, 1952.

"Fashiontex"

For Women's Hosiery and Girdles.
Claims use since on or about Aug. 8, 1942.

Ser. No. 634,801. The Popper Shoe Corporation, Boston, Mass. Filed Sept. 3, 1952.

"The SHOE RACK"

The word "Shoe" is disclaimed apart from the remainder of the mark.
For Men's, Women's, and Children's Shoes of Leather, Rubber, and Cloth, and Combinations Thereof.
Claims use since May 8, 1952.

Ser. No. 634,924. Snug-Fit Foundations Company, New York, N. Y. Filed Sept. 5, 1952.

Abdo-ette

Applicant claims ownership of Registration No. 296,636.
For Brassières, Foundations, and Girdles.
Claims use since Dec. 15, 1951.

Ser. No. 636,631. Caltex Sportswear Co. of California, Inc., Los Angeles, Calif., now by change of name Caltex of California, Inc. Filed Oct. 15, 1952.

little darlin'

For Women's and Misses' Girdles.
Claims use since Sept. 17, 1952.

Ser. No. 640,735. Haims & Ettinger, Inc., New York, N. Y. Filed Jan. 14, 1953.

Debra Dean
SHORT-EZE

The name "Debra Dean" is purely fanciful. No claim is made to the words "Short-Eze," apart from the mark shown in the drawing.
For Hosiery for Women and Misses.
Claims use since Dec. 2, 1952.

Ser. No. 641,280. R. W. Eldridge Company, Inc., Charlotte, N. C. Filed Jan. 26, 1953.

TAK-A-HANKY

No claim is made to the word "Hanky" apart from the mark as shown on the drawing.
For Handkerchiefs.
Claims use since July 14, 1952.

Ser. No. 642,331. Weintrob Bros., Morgantown, W. Va. Filed Feb. 16, 1953.

DUROX

For Men's Dress Oxfords and Work Shoes.
Claims use since Oct. 20, 1952.

Ser. No. 642,368. Portage Hosiery Company, Portage, Wis. Filed Feb. 17, 1953.

Sport Age

The word "Sport" is disclaimed apart from the mark as shown.
For Men's, Women's, Boys', and Girls' Athletic Hosiery.
Claims use since Jan. 26, 1953.

Ser. No. 642,993. Premtex Hosiery Co., Inc., New York, N. Y. Filed Mar. 2, 1953.

TEXTOE



For Men's Hosiery.
Claims use since January 1947.

Ser. No. 643,450. Venus Foundation Garments, Inc., Chicago, Ill. Filed Mar. 10, 1953.

Venus

Applicant claims ownership of Registration No. 211,096.
For Girdles, Panty Girdles, Corselets (Also Referred to as Combination or All-in-One Garments), Garter Belts, Brassières, Bandeaux and Bandettes (Articles of Women's Clothing for Confining or Shaping the Bust and Extending Only Slightly or Not at All Below the Bust).
Claims use since Oct. 1, 1923.

Ser. No. 643,516. The Van Wert Manufacturing Co., Van Wert, Ohio. Filed Mar. 11, 1953.

Universal
UNIFORM CO.

Applicant disclaims exclusive use of the words "Uniform Co." apart from the mark as shown. Applicant claims ownership of Registration No. 294,008.
For Overalls, Work and Dress Shirts, Service Coats, Coversuits, Trousers, Breeches, and Caps for Men and Boys; Lined and Unlined Jackets Made of Leather and/or Textiles for Men, Women, and Children; Slacks for Men and Women.
Claims use since June 1931.

Ser. No. 643,632. Belson Company, Green Bay, Wis. Filed Mar. 16, 1953.

Bel-ette

For Nylon Hosiery for Use by Women and Girls.
Claims use since Apr. 1, 1952.

Ser. No. 643,696. Manchester Hosiery Mills, Manchester, N. H. Filed Mar. 16, 1953.

Queens
Crown

HOSIERY

The word "Hosiery" is disclaimed apart from the mark as shown.
For Hosiery for Women and Girls.
Claims use since Feb. 5, 1953.

Ser. No. 643,944. Chipman Knitting Mills, Easton, Pa. Filed Mar. 20, 1953.

Roman Crêpe

No claim is made to the word "Crepe" apart from the mark as shown. Applicant claims ownership of Registration No. 248,733.
For Women's Full-Fashioned Nylon Hosiery.
Claims use since Feb. 10, 1953.

Ser. No. 648,068. Vic Gene Mfg. Co. Inc., Kansas City, Mo. Filed June 1, 1953.

Vic-Gene

For Women's Apparel—Namely, Shirts, Skirts, Blouses, Jackets, and Dresses.
Claims use since Jan. 1, 1939.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 621,902. Augusta K. Purcupile, Alhambra, Calif. Filed Nov. 30, 1951.

PERKY

For Chart Tracing Patterns Consisting of Flowers, Scenery, Etc., for Use in Painting Chinaware.
Claims use since Sept. 1, 1951.

Ser. No. 648,192. Plattner Company, Inc., Kansas City, Mo. Filed June 3, 1953.

CANNON COMBS

Applicant disclaims the term "Combs" apart from the mark shown in the drawing.
For Combs.
Claims use since Apr. 29, 1953.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 647,830. B. J. Barry & Company, Inc., New York, N. Y. Filed May 28, 1953.

LAUNDRATEX

For Heavy Woven Cotton Fabric Made of Plied Yarns for Press and Roll Coverings.
Claims use since Mar. 18, 1953.

Ser. No. 648,044. Princeton Knitting Mills, Inc., New York, N. Y. Filed June 1, 1953.

LORONYL

For Knitted Fabrics Made of Synthetic and Wool Fibers.
Claims use since May 19, 1953.

Ser. No. 648,142. S. Stein & Co., Inc., New York, N. Y. Filed June 2, 1953.

TWEEDORAMA

For Woolen Fabrics in the Piece and in Cut Lengths.
Claims use since May 29, 1953.

Ser. No. 648,242. Gatmart Inc., New York, N. Y. Filed June 4, 1953.

Gatmart

For Textile Fabrics of Silk, Rayon, Acetate, Wool, Cotton, and Combinations Thereof.
Claims use since Mar. 13, 1953.

CLASS 43

THREAD AND YARN

Ser. No. 644,073. Societe Rhodiaceta, Paris, France. Filed Mar. 23, 1953.

RHODIA

Applicant claims ownership of Registration No. 182,400.
For Threads of Cellulose Acetate.
Claims use since Nov. 29, 1944.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 628,522. The Compule Corporation, Rutherford, N. J. Filed Apr. 23, 1952.

HYPOVIAL

For Hypodermic Injection Devices Which Include a Hypodermic Needle, a Container for the Substances To Be Injected, and Means for Applying Pressure to Such Substances.
Claims use since Mar. 19, 1951.

Ser. No. 639,446. Estella E. Statter, Olivet, S. Dak. Filed Dec. 13, 1952.

AMERICAN GIRL

Applicant claims ownership of Registration No. 285,241.
For Sanitary Napkin Belts.
Claims use since on or about Jan. 1, 1931.

Ser. No. 644,981. Good Will Assistance Association, Allentown, Pa. Filed Apr. 9, 1953. COLLECTIVE MARK.



No claim is made for the words "Asst Assn." apart from the mark as shown.
For Hospital Beds, Wheel Chairs, Crutches, Crutch Canes, and Folding Hospital Bed Tables.
Claims use since Apr. 6, 1953.

Ser. No. 647,620. Melvin L. Grais, doing business as M. L. Grais Company, St. Paul, Minn. Filed May 25, 1953.

INSTA-CLIP

No claim is made to the use of the term "Clip" apart from the mark as shown.
For Bandage Fasteners Consisting of Small Plates of Metal or Other Suitable Material Having Teeth or Other Suitable Bandage Engaging Elements Thereon.
Claims use since May 15, 1953.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 636,614. Societe Anonyme des Eaux Minerales d'Evian-les-Bains, Paris, France. Filed Oct. 14, 1952. (Sec. 2f.)

EVIAN
CACHAT

For Natural Mineral Waters.
Claims use since 1789, in France; and since 1878, in commerce between France and the United States.

Ser. No. 641,922. Flagstaff Foods, Perth Amboy, N. J. Filed Feb. 9, 1953.

FLAGSTAFF

Applicant claims ownership of Registrations Nos. 294,046, 339,932, and 568,758.
For Grape Juice.
Claims use since 1936.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 571,039. Pangburn Company, Inc., Fort Worth, Tex. Filed Dec. 23, 1948.

RAG TIME

Applicant claims ownership of Registration No. 438,097.
For Candy.
Claims use since Oct. 1, 1937, as shown; and since Nov. 11, 1908, as to "Rag Time."

Ser. No. 594,137. Mondial Company, Inc., New York, N. Y. Filed Mar. 17, 1950.

RAX

For Canned Fish.
Claims use since January 1946.

Ser. No. 603,634. The Nestle Company, Inc., White Plains, N. Y., by change of name and merger of Lamont, Corliss & Company. Filed Sept. 16, 1950. (Sec. 2f.)

EVER READY

For Prepared Cocoa for Food Purposes.
Claims use since Apr. 7, 1909.

Ser. No. 623,043. Consolidated Grocers Corporation, Chicago, Ill. Filed Jan. 2, 1952. (Sec. 2f.)

GENTRY

Applicant claims ownership of Registrations Nos. 263,626 and 173,572.
For Spices and Seasonings—Namely, Onion Granules, Onion Flakes, Onion Chips, Onion Powder, Garlic Powder, Garlic Granules, Garlic Flakes, Chili Powder, and Ground Red Pepper.
Claims use since 1944.

Ser. No. 623,482. Standard Milling Company, Chicago, Ill. Filed Jan. 11, 1952.

Mountaineer

For Wheat Flour.
Claims use since 1946.

Ser. No. 624,201. McCormick & Company, Incorporated, Baltimore, Md., and San Francisco, Calif. Filed Jan. 28, 1952.

YOLO

For Roasted Coffee Ground From the Beans.
Claims use since Sept. 7, 1951.

Ser. No. 626,892. Louis Mauli Co., St. Louis, Mo. Filed Mar. 22, 1952. (Sec. 2f as to "Mauli's.")

Mauli's LM

Applicant claims ownership of Registration No. 204,506.
For Pickles, Pickled Olives, Piccalilli, Pickled Onions, Pickled Beets, Peppers, Horseradish, Relishes, Chili Sauce, Tomato Catsup, Tomato Puree, Tomato Paste, Horseradish Chow, Vinegar, Mustard, Horseradish Mustard, Smoke Flavored Mustard, French Dressing, Salad Dressing, Mayonnaise, Sandwich Spread, Fruit Preserves, Jellies, Apple Butter, Mincemeat, Olives, Stuffed Olives, Pickled Fish, Canned Vegetables, Barbecue Sauces, Steak Sauces, Worcestershire Sauce, Louisiana Hot Sauce, Sea Food Cocktail Sauce, and Chop Suey Sauce.
Claims use since 1920.

Ser. No. 626,952. Nutrena Mills, Inc., Minneapolis, Minn. Filed Mar. 24, 1952.

Nutrena
BE SURE · BE SAFE · BE THRIFTY

Applicant claims ownership of Registrations Nos. 143,400, 223,850, 243,246, and 373,153.
For Dog Food.
Claims use since Apr. 6, 1942.

Ser. No. 634,798. Nashville Pure Milk Company, Nashville, Tenn. Filed Sept. 3, 1952. (Sec. 2f.)

Tru-li-Pure
BRAND

For Butter, Cottage Cheese, Fluid Whole Milk, Fluid Skim Milk, Fluid Buttermilk, Fluid Cream, and Chocolate-Flavored Dairy Drink.
Claims use since June 16, 1920.

Ser. No. 636,766. C. H. Brown, doing business as C. C. Brown Company, Los Angeles, Calif. Filed Oct. 17, 1952. (Sec. 2f.)

C. C. BROWN'S
Originals

The name "C. C. Brown's" is that of applicant's father now deceased.
For Candy.
Claims use since 1906.

Ser. No. 637,081. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Oct. 23, 1952.

PRAIRIE ROSE

For Cake and Pastry Flour.
Claims use since 1910.

Ser. No. 639,215. Farley Manufacturing Company, Skokie, Ill. Filed Dec. 9, 1952.

HAND-ME-OUTS

For Candies.
Claims use since on or about July 9, 1952.

Ser. No. 639,216. Farley Manufacturing Company, Skokie, Ill. Filed Dec. 9, 1952.

HANG-ME-UPS

For Candies.
Claims use since on or about Oct. 22, 1952.

Ser. No. 639,217. Farley Manufacturing Company, Skokie, Ill. Filed Dec. 9, 1952.

HIDE-ME-OUTS

For Candies.
Claims use since on or about Nov. 6, 1952.

Ser. No. 642,002. World Cheese Co., New York, N. Y. Filed Feb. 9, 1953.

„HAOLAM"

The word "Haolam" means "World" in Hebrew.
For Cheese.
Claims use since January 1949.

Ser. No. 650,131. Standard Brands Incorporated, New York, N. Y. Filed July 10, 1953.

Famous Inn

Applicant claims ownership of Registrations Nos. 436,261 and 561,637.
For Salad Dressing.
Claims use since Apr. 30, 1952.

CLASS 47

WINES

Ser. No. 617,267. Societe Anonyme Societe St-Raphael, Paris, France. Filed Aug. 2, 1951. (Sec. 2f.)

ST-RAPHAËL

Applicant claims ownership of Registrations Nos. 243,812, 365,074, and 365,075.
For Aperitif Wines.
Claims use since 1890, in France; and since 1928, in commerce between France and the United States.

Ser. No. 640,597. Almaden-Santa Clara Vineyards, doing business in the name of Almaden Vineyards, Los Gatos, Calif. Filed Jan. 12, 1953.

MOUNTAIN RED

The word "Red" is disclaimed apart from the mark as a whole.
For Wine.
Claims use since Mar. 1, 1948.

Ser. No. 640,598. Almaden-Santa Clara Vineyards, doing business in the name of Almaden Vineyards, Los Gatos, Calif. Filed Jan. 12, 1953.

MOUNTAIN WHITE

The word "White" is disclaimed apart from the mark as a whole.
For Wine.
Claims use since Mar. 1, 1948.

Ser. No. 647,669. Van Ronkel Company, Los Angeles, Calif. Filed May 25, 1953.

MACCABEE

For Wine.
Claims use since Jan. 26, 1953.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 614,230. The Geo. Wiedemann Brewing Co., Inc., Newport, Ky. Filed May 22, 1951. (Sec. 2f as to "Royal Amber" and "Wiedemann.")





The lining represents the color gold. All notations except the name of the applicant, the words "Royal Amber" and the design including the capital letter "W" and the crown in the shield including the representation of the label, are disclaimed apart from the mark. Applicant claims ownership of Registrations Nos. 371,924, 384,217, and others.
For Beer.
Claims use since Apr. 30, 1951, as shown; since on or about Jan. 1, 1894, as to "Royal Amber"; and since on or about Jan. 1, 1882, as to "Wiedemann."

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 603,380. Quality Importers, Inc., New York, N. Y. Filed Sept. 9, 1950.

Scottish Clan

No claim is made to the word "Scottish" apart from the mark as shown.
For Scotch Whiskies.
Claims use since Aug. 23, 1950.

Ser. No. 633,986. Kentucky Distilling Co., Inc., New York, N. Y. Filed Aug. 15, 1952.

Old MISTER KENTUCKY

No claim is made to the words "Old" and "Kentucky," apart from the mark as shown. Applicant claims ownership of Registration No. 327,389.
For Whiskey.
Claims use since Jan. 22, 1952.

Ser. No. 641,694. Schenley Distillers, Inc., New York, N. Y., and Lexington, Ky. Filed Feb. 3, 1953.



The drawing is lined for the colors red and gold. The mark is a fictional pictorial representation of a colonial soldier.
For Whiskey.
Claims use since Aug. 29, 1952.

Ser. No. 647,594. A. & G. J. Caldwell, Inc., Newburyport, Mass. Filed May 25, 1953.

Ginto

For Liqueur.
Claims use since Apr. 30, 1953.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 648,358. Belknap Hardware and Manufacturing Company, Louisville, Ky. Filed June 8, 1953.

BLUE GRASS

For Tarpaulins and Tents.
Claims use since 1922.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 614,600. Roy A. Wright, Maple Park, Ill. Filed May 31, 1951.

Sharez



R. d'Angle

The name "R. d'Angle" is fanciful.
For Perfume and Cologne.
Claims use since Sept. 25, 1950.

Ser. No. 630,905. Old Empire Manufacturing Chemists, Incorporated, doing business under the style Marques de Elorza, Newark, N. J. Filed June 7, 1952.

Marques de Elorza
TAJ MAHAL

The name "Marques de Elorza" is the name of a particular living individual, consent of record.
For Perfumes, Eau de Cologne, Stick Cologne.
Claims use since Dec. 11, 1951.

Ser. No. 631,497. Helena Rubinstein, Inc., New York, N. Y. Filed June 20, 1952.

Stay-Lustre

The word "Lustre" is disclaimed apart from the mark shown on the drawing.
For Lipstick.
Claims use since May 26, 1952.

Ser. No. 634,845. Paul Goldsmith, doing business under the name of The Instan Products, Chicago, Ill. Filed Sept. 4, 1952.

INSTAN



For Sun Tan Oil.
Claims use since about May 15, 1952.

Ser. No. 638,014. Rilling Dermetics Company, New York, N. Y. Filed Nov. 13, 1952.

LANOLOC

For Cold Wave Solutions.
Claims use since Aug. 29, 1952.

Ser. No. 643,329. The Andrew Jergens Company, Cincinnati, Ohio. Filed Mar. 9, 1953.

Give

For Face Cream.
Claims use since Feb. 12, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 625,579. E. Bierhaus and Sons, Vincennes, Ind. Filed Feb. 27, 1952.

HOOSIER BELLE

For Laundry Bleach and Cleanser.
Claims use since Dec. 1, 1951.

Ser. No. 642,451. Dri-Wear Fur Processing Co., New York, N. Y. Filed Feb. 18, 1953.

GLAMOTHIZE

For Chemical Compound in Powder and Crystal Forms for Use in Cleaning and Mothproofing of Rugs, Carpets, and Garments for Personal Use.
Claims use since March 1952.

SERVICE MARKS

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 604,481. M. J. Johnson, doing business as M. J. Johnson Company, Morristown, N. J. Filed Oct. 5, 1950.



Applicant disclaims "M. J. Johnson Company" apart from the mark shown.
For Sales Engineering in Connection With Aircraft Products.
Claims use since August 1946.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 644,405. The Fluor Corporation, Ltd., Los Angeles, Calif. Filed Mar. 30, 1953. (Sec. 2f.)

FLUOR

For Construction on a Custom Basis of Plant Equipment for the Petroleum and Natural Gas Refining and Treating Industries, Also for the Chemical and Power Plant Industries.
Claims use since 1890.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

582,370. Chewing Tobacco. United States Tobacco Company, Flemington, N. J., and New York, N. Y.
Filed Feb. 28, 1948, Serial No. 550,879. Published Aug. 11, 1953. Class 17.

582,371. Breakfast Cereal Foods; Scandinavian Style Bread, Etc. Ralston Purina Company, St. Louis, Mo.
Filed Mar. 22, 1948, Serial No. 552,702. Published Aug. 4, 1953. Class 46.

582,372. Putty Chisels, Wall Paper Trimmers, Paper Hangers' Straight Edges, Armature Lathes, and Floor Edgers. Red Devil Tools, Irvington, N. J.
Filed Nov. 8, 1948, Serial No. 568,400. Published June 16, 1953. Class 23.

582,373. Storage Lockers; Parts of and Accessories for Storage Lockers, Etc. Lyon Metal Products, Incorporated, Aurora, Ill.
Filed Dec. 22, 1948, Serial No. 570,974. Published Aug. 18, 1953. Class 32.

582,374. Pulp Mill Equipment—Namely, Digester Circulating Systems and Parts Thereof, Etc. Electric Steel Foundry, Portland, Oreg.
Filed June 2, 1949, Serial No. 579,867. Published June 23, 1953. Class 23.

582,375. Planes, Braces, Etc. Millers Falls Company, Greenfield, Mass.
Filed July 19, 1949, Serial No. 582,179. Published June 23, 1953. Class 23.

582,376. Aspirin Tablets. Frank L. Iungerich, St. Louis, Mo.
Filed Sept. 6, 1949, Serial No. 584,496. Published Aug. 4, 1953. Class 18.

582,377. Mink Fur Pelts. Albert Teitelbaum, Beverly Hills, Calif.
Filed Oct. 7, 1949, Serial No. 585,961. Published Sept. 16, 1952. Class 1.

582,378. Tank Cleaning Machines—Namely, a Nozzle Device Rotatable by Mechanical Means, in Combination With a Reservoir for Tank Cleaning Fluid, for Cleaning Cargo Tanks of Marine Vessels and the Like. Butterworth System, Incorporated, Bayonne, N. J.
Filed Dec. 16, 1949, Serial No. 589,422. Published July 7, 1953. Class 23.

582,379. Imitation Strawberry Soda, Imitation Grape Soda, Imitation Cherry Soda, Colored Cream Soda, Cream Soda, Birch Beer, Root Beer, Sarsaparilla, Orange Soda, and Golden Ginger Ale. American Stores Company, Philadelphia, Pa.
Filed Dec. 29, 1949, Serial No. 590,055. Published July 14, 1953. Class 45.

582,380. Row Boats and Outboard Motor Boats Having Rubber Packed Joints. Elasti-Seal Marine Products, Inc., Oak Park, Ill.
Filed Jan. 12, 1950, Serial No. 590,737. Published Aug. 18, 1953. Class 19.

582,381. Nasal Inhaling Apparatus for Volatile Substances. Société Mulban S. À. R. L., Paris, France.
Filed Mar. 1, 1950, Serial No. 593,247. Published Aug. 25, 1953. Class 44.

582,382. Animal Grooming Machines—Namely, Machines for Brushing and Currying Animals, and Part Therefor. Sunbeam Corporation, Chicago, Ill.
Filed Apr. 13, 1950, Serial No. 595,688. Published June 9, 1953. Class 23.

582,383. Imitation Candles Which Burn by Means of a Hidden Fuel Supply. Mitchell Parker, doing business under the fictitious name of Mitchell Parker Manufacturing Company, Sharpsburg, Pa.
Filed Aug. 8, 1950, Serial No. 601,938. Published July 14, 1953. Class 34.

582,384. Porter or Malt Liquor of the Fermented Type. Delano Corporation of America, New York, N. Y.
Filed Aug. 29, 1950, Serial No. 602,894. Published July 28, 1953. Class 48.

582,385. Folding High Chair. Walter B. Pearce, doing business under the name and style of Walter B. Pearce Co., Ambler, Pa.
Original filed, act of 1946, Supplemental Register, Sept. 16, 1950; amended to application, Principal Register, Dec. 28, 1950, Serial No. 603,645. Published Jan. 22, 1952. Class 32.

582,386. Textile Mill Leathers—Namely, Leather Check Straps for Use on Weaving Looms and Other Types of Textile Machinery. E. F. Houghton & Co., Philadelphia, Pa.
Filed Sept. 20, 1950, Serial No. 603,872. Published June 23, 1953. Class 23.

582,387. Face Cream. The Armand Company, Des Moines, Iowa.
Filed Nov. 27, 1950, Serial No. 606,962. Published Sept. 30, 1952. Class 51.

582,388. Metal Mouldings. Wayne Metal Moulding Co., Inc., East Detroit, Mich.
Filed Jan. 16, 1951, Serial No. 608,843. Published Aug. 4, 1953. Class 12.

582,389. Dyeing Machinery, Drying Machinery of the Centrifugal Type, and Machines for Extracting Fluid From Textiles. Ernest A. Stienen, New York, N. Y.
Filed Mar. 8, 1951, Serial No. 611,047. Published June 16, 1953. Class 23.

582,390. Extracts, Concentrates, Compounds, and Flavoring Preparations, All Used in the Manufacture of Soft Drinks. John Mulhern Company, San Francisco, Calif.
Filed Mar. 16, 1951, Serial No. 611,445. Published July 21, 1953. Class 45.

582,391. Woven Textile Fabrics Made of Wool, Synthetic Fibers, and Combinations of Same. Morris Schwartz & Sons, Inc., New York, N. Y.
Filed May 2, 1951, Serial No. 613,426. Published Aug. 18, 1953. Class 42.

582,392. Candies. Byron Johnston Bowlby, doing business under the style name of Bowlby Candy Company, Appleton, Wis.
Filed May 26, 1951, Serial No. 614,397. Published Aug. 11, 1953. Class 46.

582,393. Hypodermic Syringes. Becton Dickinson and Company, Rutherford, N. J.
Filed June 13, 1951, Serial No. 615,106. Published Feb. 12, 1952. Class 44.

582,394. Ladies' Blouses. Blousemaker, Inc., New York, N. Y.
Filed June 18, 1951, Serial No. 615,304. Published Apr. 7, 1953. Class 39.

582,395. Injectable Medicament for the Treatment of Arthritis and Under Doctors' Prescriptions. Metropolitan Laboratories, Inc., Oyster Bay, N. Y.
Filed June 28, 1951, Serial No. 615,845. Published July 28, 1953. Class 18.

582,396. Carbonated Coffee Flavored Maltless Soft Drinks and Coffee Flavored Extract for Making the Same. 'Scoffee, Inc., Hewlett, N. Y.
Filed July 18, 1951, Serial No. 616,646. Published July 21, 1953. Class 45.

582,397. Metal Cutting Tools, Generally Boring Tools and Block-Type Cutters; Boring Tool Sets; Cutter Grinders; and Parts Thereof. Giddings & Lewis Machine Tool Company, Fond du Lac, Wis.
Filed Sept. 13, 1951, Serial No. 618,740. Published July 7, 1953. Class 23.

582,398. Junior Misses', Misses', and Ladies' Coats, Dresses, Gowns for Outerwear, Etc. Comptoir de l'Industrie Cotonniere, Société à Responsabilité Limitée, Paris, France.
Filed Sept. 11, 1951, Serial No. 619,486. Published July 21, 1953. Class 39.

582,399. Dental Handpieces. Martin Staunt, doing business as Midwest Dental Manufacturing Co., Chicago, Ill.
Filed Oct. 18, 1951, Serial No. 620,175. Published Aug. 4, 1953. Class 44.

582,400. Hair Shade Lightening Preparations. Clairol Incorporated, Stamford, Conn.
Filed Nov. 2, 1951, Serial No. 620,802. Published Aug. 4, 1953. Class 51.

582,401. Bentonite, Blanc Rouge, China Clay, Decomposed Flint, Gum Arabic, Gum Chatti, Gum Karaya, Locust Bean Gum, Gum Tragacanth, Irish Moss, Kaolin, Magnesite, Processed Silica, and Talc. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation.
Filed Nov. 8, 1951, Serial No. 621,014. Published Aug. 4, 1953. Class 1.

582,402. Bentonite, Blanc Rouge, China Clay, Etc. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation.
Filed Nov. 8, 1951, Serial No. 621,015. Published Aug. 4, 1953. Class 1.

582,403. Basement Sash, Metal Arches, Steel Roof Deck, Wall Ties, Metal Edged Gypsum Plank, Metal Brackets Used in Wall Construction, Metal Lath, and Insulating Siding. United States Gypsum Company, Chicago, Ill.
Filed Nov. 8, 1951, Serial No. 621,040. Published July 28, 1953. Class 12.

582,404. Watches. Annie Oakley Enterprises, Los Angeles, Calif., assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif., a corporation of California.
Filed Nov. 10, 1951, Serial No. 621,097. Published June 23, 1953. Class 27.

582,405. Rayon Staple Fiber. Süddeutsche Zellwolle A. G., Kelheim-Ost, Germany.
Filed Nov. 27, 1951, Serial No. 621,733. Published Aug. 4, 1953. Class 1.

582,406. Heating Furnaces Using Solid Fuel or Gaseous Fuel, Such as Coal, Coke, Peat, Fuel Oil, Artificial and Natural Gas, Autoclaves for Heating Liquids of All Kinds. Jackson & Church Company, Saginaw, Mich.
Original filed, act of 1946, Supplemental Register, Dec. 14, 1951; amended to application, Principal Register, Nov. 26, 1952, Serial No. 622,498. Published July 7, 1953. Class 34.

582,407. Miniature Gardens, Miniature Landscapes, and Miniature Scenes, Containing Real Plant Life. Maria Folino Weld, doing business as The Creative Workshop, Watertown, Mass., assignor to Harold Berkowitz, Brookline, Mass.
Filed Dec. 19, 1951, Serial No. 622,682. Published Aug. 18, 1953. Class 1.

582,408. Candied Popcorn Confections. Fabian Kontney, doing business as Kontney Candy Co., Green Bay, Wis.
Filed Dec. 26, 1951, Serial No. 622,831. Published Aug. 11, 1953. Class 46.

582,409. Coal. United Collieries, Inc., Cincinnati, Ohio, assignor to United Colliers, Incorporated, Cincinnati, Ohio, a corporation of Ohio.
Filed Jan. 5, 1952, Serial No. 623,263. Published Aug. 4, 1953. Class 1.

582,410. Unset Synthetic Gems and Synthetic Gems Set in Jewelry Mountings, Including Men's and Ladies' Rings, Earrings, Pendants, Tiaras, Tie Pins, Tie Clasps, and Cuff Links. Kenya Gem Corporation, Philadelphia, Pa.
Filed Jan. 8, 1952, Serial No. 623,309. Published June 23, 1953. Class 28.

582,411. Fresh Fruits, Fresh Vegetables, and Seasonings for Foods, Containing Monosodium Glutamate. Suffolk Farms Packing Co., Revere and Chelsea, Mass.
Filed Jan. 16, 1952, Serial No. 623,692. Published May 19, 1953. Class 46.

582,412. Powdered Soap. The Davies-Young Soap Company, Dayton, Ohio.
Filed Jan. 17, 1952, Serial No. 623,710. Published Aug. 25, 1953. Class 52.

582,413. Solvent Type Cement Made From Synthetic Rubber for Bonding Decorative Plastic Laminates Such as Formica, Etc. to Wood, Metal, or Other Surfaces. Midcontinent Adhesive Company, Grove City, Ohio.
Filed Jan. 25, 1952, Serial No. 624,098. Published Aug. 25, 1953. Class 5.

582,414. Sudsing Cleaner, Cleanser, and Detergent. The Hewitt Soap Company, Inc., Dayton, Ohio.
Filed Feb. 7, 1952, Serial No. 624,647. Published Aug. 18, 1953. Class 52.

582,415. All Types of Accordions. Giulietti Accordion Corporation, New York, N. Y.
Filed Feb. 20, 1952, Serial No. 625,268. Published Aug. 25, 1953. Class 36.

582,416. Kiln-Fired Glazed Earthenware—Namely, Pottery-Type Dinnerware, Kitchenware, and Trays. The Loma Manufacturing Company, Phoenix, Ariz., assignor to W. O. Bodine, doing business as Copperstate Supply Company, Phoenix, Ariz.
Filed Mar. 14, 1952, Serial No. 626,465. Published June 23, 1953. Class 30.

582,417. Special Deck of Cards Used in Conjunction With Game of Chess. Henry Casimir Doran, doing business as H. C. Doran Co., Battle Creek, Mich.
Filed Mar. 21, 1952, Serial No. 626,785. Published Aug. 18, 1953. Class 22.

582,418. Gas, Oil, Vapor Burning Water Heaters and Their Structural Parts. The Cleveland Heater Company, Cleveland, Ohio.
Filed Mar. 24, 1952, Serial No. 626,932. Published July 28, 1953. Class 34.

582,419. Pianos. Estey Piano Corp., Bluffton, Ind.
Filed Mar. 29, 1952, Serial No. 627,258. Published Aug. 18, 1953. Class 36.

582,420. Technical Manuals and Replacement and Insert Parts Therefor, Published From Time to Time. John F. Rider Publisher, Inc., New York, N. Y.
Filed Apr. 10, 1952, Serial No. 627,900. Published Aug. 18, 1953. Class 38.

582,421. Anti Histamine Medicine, in Tablet Form for Relief in Asthma and Allergic Disorders and To Aid in the Increase of Blood Pressure. Allied Drugs, Inc., Hackensack, N. J.
Filed Apr. 11, 1952, Serial No. 627,919. Published July 28, 1953. Class 18.

582,422. Coconut Oil Detergent Shampoo. Rubye B. Shelton, doing business under the name of Allito Mfg. Co., Houston, Tex.
Filed Apr. 15, 1952, Serial No. 628,130. Published Aug. 18, 1953. Class 52.

582,423. Holders of a Plurality of Candles. Victrylite Candle Company, Oshkosh, Wis.
Filed Apr. 23, 1952, Serial No. 628,590. Published July 7, 1953. Class 34.

582,424. Industrial Ventilating Fans in the Nature of Exhaust Fans and Blowers—Namely, Belt Driven Fans, Direct Driven Fans, Extension Shaft Fans, Drum Type Direct Fans, and Drumless Direct Fans. Robbins & Myers, Inc., Springfield, Ohio.
Filed Apr. 29, 1952, Serial No. 628,877. Published July 14, 1953. Class 34.

582,425. Non-Alcoholic Maltless Soft Drinks. Saegertown Ginger Ale Co., Saegertown, Pa.
Filed Apr. 30, 1952, Serial No. 628,960. Published July 14, 1953. Class 45.

582,426. Bath Enclosures, Etc. Otto E. Stelzer, German Township, St. Joseph County, Ind.
Filed Apr. 30, 1952, Serial No. 628,969. Published Aug. 4, 1953. Class 12.

582,427. Water Soluble Compound for Use as a Coolant in Cutting Operations Performed With Abrasive Wheels or Discs. American Chain & Cable Company, Inc., Bridgeport, Conn.
Filed May 1, 1952, Serial No. 628,988. Published July 28, 1953. Class 6.

582,428. Ceramic Tableware — Namely, Glasses and Tumblers. Milton E. Stackpole, doing business as Gift Horse Creations, San Mateo, Calif.
Filed May 13, 1952, Serial No. 629,631. Published June 23, 1953. Class 30.

582,429. Prophylactic Articles for Prevention of Contagious Diseases. American Hygienic Co., Washington, D. C.
Filed May 14, 1952, Serial No. 629,645. Published Aug. 18, 1953. Class 44.

582,430. Flexible Polymeric Material in Rolls or Sheets for Further Use in the Industrial Arts. The General Tire & Rubber Company, Akron, Ohio.
Filed May 14, 1952, Serial No. 629,662. Published Aug. 4, 1953. Class 1.

582,431. Cottage Cheese and Frozen Confection Made From Vegetable Fat—Namely, an Imitation Ice Cream. John H. Costello, St. Louis, Mo.
Filed May 15, 1952, Serial No. 629,721. Published Aug. 11, 1953. Class 46.

582,432. Liquid Skin Cleanser, Skin Freshener, Etc. Florence Ormand Miller, doing business as Florence Miller, Dallas, Tex.
Filed May 15, 1952, Serial No. 629,743. Published Aug. 4, 1953. Class 51.

582,433. Seed Corn and Cotton Seed. The Logan Seed Company, Inc., Gilliam, La.
Filed May 16, 1952, Serial No. 629,804. Published Aug. 18, 1953. Class 1.

582,434. Shoe Side Upper Leather. Pfister & Vogel Tanning Co., Milwaukee, Wis.
Filed May 19, 1952, Serial No. 629,910. Published Aug. 18, 1953. Class 1.

582,435. Metallic Abrasive Particles Used in the Blasting of Surfaces for Cleaning. American Wheelabrator & Equipment Corporation, Mishawaka, Ind.
Filed May 20, 1952, Serial No. 629,927. Published Aug. 25, 1953. Class 4.

582,436. Jaw Recorder and Duplicator Used for Reproducing and Correcting With Models Articulation of the Human Jaws and of Recording and Automatically Reproducing in Three Dimensions Simultaneously the Kinematic and Static Relationships of the Upper and Lower Jaws and Teeth. Transograph, Incorporated, Minneapolis, Minn.
Filed May 24, 1952, Serial No. 630,241. Published Aug. 18, 1953. Class 44.

582,437. Fresh Dressed and Frozen Frying, Roasting, and Broiling Poultry. Tyler-Gregg Poultry and Egg Company, Inc., Tyler, Tex.
Filed May 24, 1952, Serial No. 630,243. Published Aug. 11, 1953. Class 46.

582,438. Magazine Published Periodically. George Baker, Beverly Hills, Calif.
Filed May 26, 1952, Serial No. 630,256. Published Aug. 18, 1953. Class 38.

582,439. Caulking and Filling Compounds for Use in Filling and Sealing Joints, Etc. Minwax Company, Inc., New York, N. Y.
Filed May 31, 1952, Serial No. 630,543. Published Aug. 4, 1953. Class 12.

582,440. Monthly Publications—Namely, Magazines and Newsletters. Frozen Food Age Publishing Co., Inc., New York, N. Y.
Filed June 2, 1952, Serial No. 630,593. Published Aug. 18, 1953. Class 38.

582,441. Hypodermic Syringes. Lurline Products Company, Woodmere, N. Y.
Filed June 2, 1952, Serial No. 630,602. Published Aug. 18, 1953. Class 44.

582,442. Outboard Motors and Parts. Outboard, Marine & Manufacturing Company, Waukegan, Ill.
Filed June 7, 1952, Serial No. 630,906. Published June 9, 1953. Class 23.

582,443. Air Conditioners, Their Component and Replacement Parts as Well as Any Accessories, Etc. Radio Corporation of America, New York, N. Y.
Filed June 14, 1952, Serial No. 631,220. Published July 21, 1953. Class 34.

582,444. Insulating Textile Fabric of Synthetic Fibres To Be Used as Linings for Garments. Temp Resisto Corporation, New York, N. Y.
Filed June 14, 1952, Serial No. 631,227. Published Aug. 18, 1953. Class 42.

582,445. Transmissions in Power Excavators. Bucyrus-Erie Company, Wilmington, Del., and South Milwaukee, Wis.
Filed June 20, 1952, Serial No. 631,461. Published June 23, 1953. Class 23.

582,446. Dining Room Furniture — Namely, Buffets, Chinas, Breakfronts, Utility Cabinets, Tables, Chests, Corner Cabinets, and Slip Seat Wooden Chairs; and Bedroom Furniture—Namely, Beds, Dressers, Vanities, Dressing Tables, Chests, Highboys, Night Stands, and Benches. Morganton Furniture Company, Morganton, N. C.
Filed June 23, 1952, Serial No. 631,627. Published Aug. 18, 1953. Class 32.

582,447. Leather. John R. Evans & Company, Camden, N. J.
Filed June 24, 1952, Serial No. 631,657. Published Aug. 18, 1953. Class 1.

582,448. Acetate, Rayon, Nylon, Cotton, and Elastic Nettings, Sold in the Piece. Philip Wick Company, Inc., New York, N. Y.
Filed May 29, 1952, Serial No. 631,907. Published Aug. 18, 1953. Class 42.

582,449. Acetate, Rayon, Nylon, Cotton, and Elastic Nettings, Sold in the Piece. Philip Wick Company, Inc., New York, N. Y.
Filed May 29, 1952, Serial No. 631,908. Published Aug. 18, 1953. Class 42.

582,450. Earth Drilling Augers of the Machine-Driven Type. Frederick E. Henning, doing business as Henning Electric Motor Co., Fargo, N. Dak.
Filed June 30, 1952, Serial No. 631,989. Published July 7, 1953. Class 23.

582,451. Veterinary Preparation To Be Administered Internally for the Prevention and Treatment of Certain Canine and Feline Eczemas When Due to Dietary Deficiency of Essential Fatty Acids. Allied Laboratories, Inc., Kansas City, Mo.
Filed July 5, 1952, Serial No. 632,140. Published Aug. 25, 1953. Class 18.

582,452. Feed for Livestock and Poultry. Schreiber Mills, Inc., St. Joseph, Mo.
Filed July 9, 1952, Serial No. 632,330. Published Feb. 10, 1953. Class 46.

582,453. Pharmaceutical Product Used in the Therapy of Tuberculosis and Leprosy. Farmaceutici Italia S. A., Milan, Italy.
Priority under Sec. 44(d). Italian Registration No. 107,342, filed Mar. 17, 1952.
Filed July 10, 1952, Serial No. 632,361. Published Aug. 18, 1953. Class 18.

582,454. Textile Piece Goods of Wool and Synthetic Fibers. The Heatherbloom Corporation, New York, N. Y.
Filed July 11, 1952, Serial No. 632,424. Published Feb. 10, 1953. Class 42.

582,455. Containers for Containment and Dispensation of Parenteral Fluids, and Tubes Equipped With Needles and Needle Adapters for the Administration of Parenteral Fluids. Travenol Laboratories, Inc., Morton Grove, Ill.
Filed July 16, 1952, Serial No. 632,637. Published Aug. 18, 1953. Class 44.

582,456. Surgical Soap Having Bacteriostatic Properties. Central Chemical Company, Kansas City, Mo.
Filed July 21, 1952, Serial No. 632,826. Published Aug. 18, 1953. Class 52.

582,457. Hormone Preparation. Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J.
Filed July 23, 1952, Serial No. 632,921. Published Aug. 25, 1953. Class 18.

582,458. Centrifugal Pumps. Lawrence Machine and Pump Corporation, Lawrence, Mass., now by change of name Lawrence Pumps Inc.
Filed July 26, 1952, Serial No. 633,111. Published July 21, 1953. Class 23.

582,459. Change Speed Transmissions, Power Operated Diggers for Attachment to Tractors and Trucks and Parts Thereof. Sherman Products, Inc., Royal Oak, Mich.
Filed July 31, 1952, Serial No. 633,336. Published July 7, 1953. Class 23.

582,460. Department or Section of a Periodical Publication. The Prairie Farmer Publishing Company, Chicago, Ill.
Filed Aug. 1, 1952, Serial No. 633,376. Published Aug. 18, 1953. Class 38.

582,461. Shredded Textile Fibers. Textile Fiber Corporation, St. Louis, Mo.
Filed Aug. 6, 1952, Serial No. 633,561. Published Aug. 11, 1953. Class 1.

582,462. Glazed Pottery Planters and Vases. Tierra Royal Potteries, Inc., Kansas City, Mo.
Filed Aug. 7, 1952, Serial No. 633,595. Published June 23, 1953. Class 30.

582,463. Mattresses. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill.
Filed Aug. 8, 1952, Serial No. 633,634. Published Aug. 18, 1953. Class 32.

582,464. Mattresses. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill.
Filed Aug. 8, 1952, Serial No. 633,635. Published Aug. 18, 1953. Class 32.

582,465. Type of Violin for Use of Children Learning To Play the Violin. Joseph Williams Limited, London, England.
Filed Aug. 15, 1952, Serial No. 634,012. Published Aug. 18, 1953. Class 36.

582,466. Friction Tape for Automobile, Bicycle, and Household Use. Sheller Manufacturing Corporation, Chicago, Ill.
Filed Aug. 18, 1952, Serial No. 634,122. Published Aug. 18, 1953. Class 5.

582,467. Disinfectant. The Gerson-Stewart Corporation Company, Cleveland, Ohio.
Filed Aug. 21, 1952, Serial No. 634,251. Published Aug. 25, 1953. Class 6.

582,468. Cutting Compounds, Non-Abrasive Grinding Compounds, and Drawing Compounds, Quenching Oils, Tapping and Threading Compounds, and Honing Compounds. Pelron Corporation, Lyons, Ill.
Filed Sept. 2, 1952, Serial No. 634,752. Published July 28, 1953. Class 15.

582,469. Lawn and Field Seed. Barzen Company, Minneapolis, Minn.
Filed Oct. 2, 1952, Serial No. 636,056. Published Aug. 18, 1953. Class 1.

582,470. Butter; Oleomargarine; Eggs: Fresh, Frozen, and Powdered; Etc. Beatrice Foods Co., Chicago, Ill.
Filed Oct. 14, 1952, Serial No. 636,582. Published Aug. 4, 1953. Class 46.

582,471. Milk Solids Concentrate Sold as a Protein Food Additive. Purity Products Company, Mayville, Wis.
Filed Oct. 15, 1952, Serial No. 636,653. Published Aug. 11, 1953. Class 46.

582,472. Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups and Extracts for Making the Same. Lewis Carl Greiser, doing business as General Flavoring Extract Co., Cincinnati, Ohio.
Filed Oct. 16, 1952, Serial No. 636,704. Published July 14, 1953. Class 45.

582,473. Sterling Silver Flatware and Hollow Ware. J. W. Wolfenden Corporation, Attleboro, Mass.
Filed Oct. 20, 1952, Serial No. 636,908. Published June 23, 1953. Class 28.

582,474. Shortening Consisting of a Combination of Animal and Vegetable Fats. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Oct. 21, 1952, Serial No. 636,956. Published July 28, 1953. Class 46.

582,475. Cleaner in Liquid Form for Cleaning Metal Surfaces and a Wash in Liquid Form for Cleaning Metal, Lacquered, and Painted Surfaces. Lumin Sales Corporation, New York, N. Y.
Filed Oct. 22, 1952, Serial No. 636,989. Published Aug. 18, 1953. Class 52.

582,476. Sterling Silver Flatware and Hollow Ware. J. W. Wolfenden Corporation, Attleboro, Mass.
Filed Oct. 24, 1952, Serial No. 637,160. Published June 23, 1953. Class 28.

582,477. Canned Fruits, Canned Berries, and Fresh Grapes. George Noroian Company, Dinuba, Calif.
Filed Nov. 1, 1952, Serial No. 637,498. Published Aug. 11, 1953. Class 46.

582,478. Massage Cream. Ortho Pharmaceutical Corporation, Raritan, N. J.
Filed Nov. 4, 1952, Serial No. 637,609. Published Aug. 4, 1953. Class 51.

582,479. Barn Roof Ventilators With and Without Conduits and With and Without Fans, Etc. Starline Inc., Harvard, Ill.
Filed Oct. 28, 1952, Serial No. 638,030. Published July 21, 1953. Class 34.

582,480. Artificial Staple Fibres Made From Cellulose. Courtaulds Limited, London, England.
Filed Nov. 14, 1952, Serial No. 638,068. Published Aug. 18, 1953. Class 1.

582,481. Pyrophoric Material—Namely, Wadding Treated To Burn With a Large Flame. Ralph A. Raschig, Brookfield, Wis.
Filed Nov. 18, 1952, Serial No. 638,269. Published Aug. 4, 1953. Class 1.

582,482. Astringent for Sour Stomach, Heartburn, Acid Eructations, Belching, Gas Flatulence, Wind Colic, and Simple Diarrhea Resulting From Dietary Intolerance. Merrick Medicine Company, also doing business as The Merrick Medicine Co., Waco, Tex.
Filed Nov. 21, 1952, Serial No. 638,428. Published July 28, 1953. Class 18.

582,483. Resinous Plastic Material in the Form of Sheets Used in the Manufacture of Spectacle Frames. The Kono Manufacturing Company, Woodside, N. Y.
Filed Nov. 26, 1952, Serial No. 638,654. Published Aug. 4, 1953. Class 1.

582,484. Automatic and Hand Operated Bottle Filling and Capping Machinery. Cherry-Burrell Corporation, Chicago, Ill.
Filed Nov. 28, 1952, Serial No. 638,938. Published July 7, 1953. Class 23.

582,485. Bath Towels, Bath Mats, Dish Towels, Wash Cloths, Doilies, Etc. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,506. Published Aug. 18, 1953. Class 42.

582,486. Coil-Flushing Gun for Refrigerating Systems. Ansul Chemical Company, Marinette, Wis.
Filed Dec. 17, 1952, Serial No. 639,606. Published July 7, 1953. Class 23.

582,487. Cucumber Relish and Cucumber Slices. Glaser, Crandell Co., Chicago, Ill.
Filed Dec. 17, 1952, Serial No. 639,631. Published Aug. 11, 1953. Class 46.

582,488. Meat Products—Namely, Boneless Cooked Ham, Boneless Pork Shoulder Butts, Boneless Pork Loins, Luncheon Meat, and Boneless Shoulder of Pork, All of the Goods Being Packed in Cans. Smokemasters, Inc., New York, N. Y.
Filed Dec. 19, 1952, Serial No. 639,786. Published Aug. 11, 1953. Class 46.

582,489. Solids of Waste Sulfite Liquor for Use as a Road Binder. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Dec. 20, 1952, Serial No. 639,811. Published June 23, 1953. Class 12.

582,490. Automobile Road Maps With Symbols Designating the Location of Business Establishments Catering to Tourists, Whose Advertisements Appear Upon the Publication and Are Referred to by Key Numbers Upon the Map. Buddie P. Drake, South Bend, Ind.
Filed Dec. 22, 1952, Serial No. 639,875. Published Aug. 18, 1953. Class 38.

582,491. Magazine Section in a Periodic Publication. Meredith Publishing Company, Des Moines, Iowa.
Filed Jan. 5, 1953, Serial No. 640,349. Published Aug. 18, 1953. Class 38.

582,492. Boring Jigs, Boring Bits, Metal Templates, Tools Comprising Rods and Supports for Assembling Locks, and Mortising Tools for Forming Recesses. Schlage Lock Company, San Francisco, Calif.
Filed Jan. 6, 1953, Serial No. 640,413. Published July 7, 1953. Class 23.

582,493. Outdoor Fireplace Units. Hancock Iron Works, Pontiac, Mich.
Filed Jan. 7, 1953, Serial No. 640,458. Published July 14, 1953. Class 34.

582,494. Beer. Pittsburgh Brewing Company, Pittsburgh, Pa.
Filed Jan. 8, 1953, Serial No. 640,526. Published Aug. 4, 1953. Class 48.

582,495. Plastic Tile. Aztec Corporation, Philadelphia, Pa.
Filed Jan. 9, 1953, Serial No. 640,543. Published June 23, 1953. Class 12.

582,496. Pitch Pipes. Wm. Kratt Co., Union, N. J.
Filed Jan. 12, 1953, Serial No. 640,637. Published Aug. 25, 1953. Class 36.

582,497. Orangeade. Foremost Dairies, Inc., Jacksonville, Fla.
Filed Jan. 19, 1953, Serial No. 640,929. Published July 28, 1953. Class 45.

582,498. Combination Ice Pick, Bottle Opener, Seal Breaker, Ice Crusher, Cork Screw, Muddler, and Measuring Jigger. Modern Sales Company, Los Angeles, Calif.
Filed Jan. 19, 1953, Serial No. 640,950. Published July 7, 1953. Class 23.

582,499. Watches. Popper Watch Co. Inc., New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,085. Published June 23, 1953. Class 27.

582,500. Weekly Scholastic Periodical for Young Students. Scholastic Corporation, New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,093. Published Aug. 18, 1953. Class 38.

582,501. Chemical Preparation Having Adhesive Properties Intended for Use With Insecticides and Fungicides To Enable the Latter To Adhere to Plants Through All Types of Weather. Milligan Bros. System, Jefferson, Iowa.
Filed Jan. 22, 1953, Serial No. 641,147. Published Aug. 25, 1953. Class 5.

582,502. Canned Tuna Fish. Van Camp Sea Food Company, Inc., Terminal Island, Calif.
Filed Jan. 26, 1953, Serial No. 641,355. Published Aug. 11, 1953. Class 46.

582,503. Canned Tuna Fish. Van Camp Sea Food Company, Inc., Terminal Island, Calif.
Filed Jan. 26, 1953, Serial No. 641,356. Published Aug. 11, 1953. Class 46.

582,504. Calf Leather. American Hide and Leather Company, Flemington, N. J., and Boston, Mass.
Filed Jan. 29, 1953, Serial No. 641,485. Published Aug. 18, 1953. Class 1.

582,505. Oxytocin Preparation Used as a Veterinary Medicine. Armour and Company, Chicago, Ill.
Filed Jan. 30, 1953, Serial No. 641,537. Published July 28, 1953. Class 18.

582,506. Portable Ranges, Circulator Space Heaters, Etc. The Quincy Stove Manufacturing Company, Quincy, Ill.
Filed Jan. 30, 1953, Serial No. 641,573. Published July 14, 1953. Class 34.

582,507. Field, Garden, Lawn, and Grass Seeds. O. M. Scott & Sons Company, Marysville, Ohio.
Filed Jan. 30, 1953, Serial No. 641,577. Published Aug. 18, 1953. Class 1.

582,508. Anesthetic in Liquid and Powder Form. Wallace & Tiernan Products, Inc., Belleville, N. J., now by merger and change of name Wallace & Tiernan Company, Inc.
Filed Feb. 4, 1953, Serial No. 641,753. Published July 28, 1953. Class 18.

582,509. Field, Garden, Lawn, and Grass Seeds. O. M. Scott & Sons Company, Marysville, Ohio.
Filed Feb. 5, 1953, Serial No. 641,805. Published Aug. 18, 1953. Class 1.

582,510. Cigarette Lighter Fuel Filler. Gey Products Corporation, Cambridge, Mass.
Filed Feb. 6, 1953, Serial No. 641,834. Published Aug. 4, 1953. Class 8.

582,511. Gas, Oil, and Coal Fired Stoves and Space Heaters. George J. Emrich, Columbus, Ohio.
Filed Feb. 12, 1953, Serial No. 642,130. Published July 28, 1953. Class 34.

582,512. Sheets and Pillow Cases. Naumkeag Steam Cotton Company, Salem, Mass.
Filed Feb. 12, 1953, Serial No. 642,157. Published Aug. 18, 1953. Class 42.

582,513. Liquid Plastic Bandage. Protective Treatments, Inc., Dayton, Ohio.
Filed Feb. 12, 1953, Serial No. 642,162. Published July 28, 1953. Class 18.

582,514. Liquid Surgical Dressing. Protective Treatments, Inc., Dayton, Ohio.
Filed Feb. 12, 1953, Serial No. 642,163. Published July 28, 1953. Class 18.

582,515. Series of Books, Published Periodically and Pertaining to Various Subjects. Denni Hlasatel Printing & Publishing Co., Inc., Chicago, Ill.
Filed Feb. 13, 1953, Serial No. 642,203. Published Aug. 18, 1953. Class 38.

582,516. Medical Preparation in Powder Form for Use in Feminine Hygiene. Drug Specialties, Inc., Winston-Salem, N. C.
Filed Feb. 20, 1953, Serial No. 642,528. Published July 28, 1953. Class 18.

582,517. Medical Preparation in Elixir Form for Use as a Tonic and Vehicle in Administering a Variety of Other Medicines. Drug Specialties, Inc., Winston-Salem, N. C.
Filed Feb. 20, 1953, Serial No. 642,529. Published July 28, 1953. Class 18.

582,518. Medicament Directed to the Alleviation of the Smoking Habit. Thomas C. Dilbeck, doing business as The Dilbeck Company, Los Angeles, Calif.
Filed Mar. 2, 1953, Serial No. 642,953. Published Aug. 18, 1953. Class 18.

582,519. Mats, Bats, and Sheets of Fibrous Glass. Libbey-Owens-Ford Glass Company, Toledo, Ohio.
Filed Mar. 3, 1953, Serial No. 643,039. Published Aug. 25, 1953. Class 1.

582,520. Cigarettes. Liggett & Myers Tobacco Company, New York, N. Y.
Filed Mar. 5, 1953, Serial No. 643,169. Published Aug. 4, 1953. Class 17.

582,521. Published Musical Compositions. Hill and Range Songs, Inc., Beverly Hills, Calif.
Filed Mar. 6, 1953, Serial No. 643,229. Published Aug. 18, 1953. Class 38.

582,522. Cosmetics, Theatrical Make-Up, and Similar Preparations—Namely, Lipsticks, Nail Enamel, and Rouge. Max Factor & Co., Hollywood, Calif.
Filed Mar. 9, 1953, Serial No. 643,307. Published Aug. 25, 1953. Class 51.

582,523. Comic Magazines. Magazine Publishers, Inc., Chicago, Ill.
Filed Mar. 11, 1953, Serial No. 643,496. Published Aug. 11, 1953. Class 38.

582,524. Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof. D. B. Fuller & Co., Inc., New York, N. Y.
Filed Mar. 12, 1953, Serial No. 643,544. Published Aug. 18, 1953. Class 42.

582,525. Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof. D. B. Fuller & Co., Inc., New York, N. Y.
Filed Mar. 12, 1953, Serial No. 643,545. Published Aug. 18, 1953. Class 42.

582,526. Wool and Wool and Rayon Twist Velvet Carpet. De Witt Carpets, Inc., New York, N. Y.
Filed Mar. 13, 1953, Serial No. 643,583. Published Aug. 18, 1953. Class 42.

582,527. Textile Piece Goods of Linen, Cotton, or Rayon, and Admixtures in Which Linen, Cotton, or Rayon Predominate. H. M. Smyth and Company, Limited, Belfast, Northern Ireland.
Filed Mar. 13, 1953, Serial No. 643,618. Published Aug. 18, 1953. Class 42.

582,528. Animal Feed Supplement. Jacob Finkelstein, Trading as Norris Laboratories, Norristown, Pa.
Filed Mar. 20, 1953, Serial No. 643,948. Published Aug. 25, 1953. Class 18.

582,529. Analgesic Tablet. The E. L. Patch Company, Stoneham, Mass.
Filed Mar. 20, 1953, Serial No. 643,974. Published Aug. 25, 1953. Class 18.

582,530. Newspaper Column or Columns. Fairchild Publications, Inc., New York, N. Y.
Filed Mar. 24, 1953, Serial No. 644,106. Published Aug. 18, 1953. Class 38.

582,531. Ryania Powder for Use in the Agricultural Field for the Control of Economically Important Crop and Field Pests. S. B. Penick & Company, New York, N. Y.
Filed Mar. 30, 1953, Serial No. 644,448. Published Aug. 25, 1953. Class 6.

582,532. Remedy for Head Colds and Minor Skin Affections. Eugene F. Shofner, doing business as Mentoil Co., Fayetteville, Tenn.
Filed Apr. 7, 1953, Serial No. 644,875. Published Aug. 25, 1953. Class 18.

582,533. Aqueous Multivitamin Drops. Dalin Pharmaceuticals, Inc., Long Island City, N. Y.
Filed Apr. 13, 1953, Serial No. 645,117. Published Aug. 25, 1953. Class 18.

582,534. Fungicidal Material. Scientific Oil Compounding Company, Inc., Chicago, Ill.
Filed Apr. 13, 1953, Serial No. 645,193. Published Aug. 25, 1953. Class 6.

582,535. Activated Colloidal Silver Compound for the Control and Destruction of Algae, Scum, and Slime in Swimming Pools, Aquaria, Ponds, and Cooling Systems. The United States Movidyn Corporation, Chicago, Ill.
Filed Apr. 14, 1953, Serial No. 645,272. Published Aug. 25, 1953. Class 6.

582,536. Acetyl Peroxide, Ammonium Persulfate, Barium Nitrate, Etc. Food Machinery and Chemical Corporation, San Jose, Calif.
Filed Apr. 15, 1953, Serial No. 645,298. Published Aug. 25, 1953. Class 6.

582,537. Insecticides, Fungicides, Germicides, Herbicides, Rodenticides, and Disinfectants, Primarily Used for Agricultural Purposes. Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa.
Filed Apr. 15, 1953, Serial No. 645,336. Published Aug. 25, 1953. Class 6.

582,538. Telescopes and Binoculars in the Nature of Toys. Anton F. Escudier, Chicago, Ill.
Filed Apr. 16, 1953, Serial No. 645,400. Published Aug. 18, 1953. Class 22.

582,539. Telescopes and Binoculars in the Nature of Toys. Anton F. Escudier, Chicago, Ill.
Filed Apr. 16, 1953, Serial No. 645,401. Published Aug. 18, 1953. Class 22.

582,540. Coconuts. R. F. Fels, San Juan, P. R.
Filed Apr. 16, 1953, Serial No. 645,406. Published Aug. 11, 1953. Class 46.

582,541. Evaporated Milk. Midland Cooperative Dairy Association, Shawano, Wis., and Syracuse, N. Y.
Filed Apr. 16, 1953, Serial No. 645,422. Published Aug. 4, 1953. Class 46.

582,542. Fresh Deciduous Fruits. Rolling Hills Orchards, Inc., Los Angeles, Calif. and Emmett, Idaho.
Filed Apr. 16, 1953, Serial No. 645,433. Published Aug. 4, 1953. Class 46.

582,543. Bulk and Packaged Ice-Cream, Ice-Cream Sandwiches, Bisque Tortoni, and Ice-Cream Covered Pops. Andre French Ice Cream Co., Inc., Brooklyn, N. Y.
Filed Apr. 17, 1953, Serial No. 645,459. Published Aug. 4, 1953. Class 46.

582,544. Fresh Citrus Fruits. Piru Citrus Association, Piru, Calif.
Filed Apr. 20, 1953, Serial No. 645,762. Published Aug. 4, 1953. Class 46.

582,545. Fresh, Frozen, and Canned Fish; and Canned Shad Roe. Barbey Packing Corporation, Astoria, Oreg.
Filed Apr. 28, 1953, Serial No. 646,046. Published Aug. 11, 1953. Class 46.

582,546. Board Game. Milton Bradley Company, Springfield, Mass.
Filed May 25, 1953, Serial No. 647,591. Published Aug. 18, 1953. Class 22.

582,547. Game of Skill and Chance Played With Special Cards and Dice and Movable Markers on a Board Designed To Represent a Typical American City. Progressive Products Company, Hollywood, Calif.
Filed May 26, 1953, Serial No. 647,720. Published Aug. 18, 1953. Class 22.

582,548. Multiple Deck, Rolling Ball Puzzle. Edwin L. Boles, Pacific Palisades, Calif.
Filed June 1, 1953, Serial No. 647,986. Published Aug. 18, 1953. Class 22.

Service Mark

582,549. Radio Program Broadcasting Services. The Yankee Network Inc., Boston, Mass.
Filed Sept. 30, 1947, Serial No. 536,331. Published Apr. 17, 1951. Class 104.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

582,550. (Class 44. Dental, Medical, and Surgical Appliances.) C. J. Bates & Son, Chester, Conn. Original filed, act of 1946, Principal Register, July 12, 1949; amended to application, Supplemental Register, June 13, 1952, Serial No. 583,312.

SHEAR CUT

Applicant claims ownership of Registration No. 417,659.
For Manicure Articles — Namely, Nail Brushes, Nail Buffers, Nail Files, Nail Clippers, Cuticle Knives, Scissors, Manicure Sticks, Tweezers, Emery Boards, Pumice Boards, and Nail Polishers.
Claims use since May 29, 1944.

582,551. (Class 21. Electrical Apparatus, Machines, and Supplies.) Aircraft-Marine Products Inc., Harrisburg, Pa. Original filed, act of 1946, Principal Register, Mar. 11, 1950; amended to application, Supplemental Register, Apr. 24, 1953, Serial No. 593,766.

Wire Ends

For Electrical Terminals and Other Electric Connectors.
Claims use since July 29, 1949.

582,552. (Class 19. Vehicles.) Automotive Accessories Mfg. Co., Chicago, Ill. Original filed, act of 1946, Principal Register, May 18, 1950; amended to application, Supplemental Register, Apr. 29, 1953, Serial No. 597,655.

Tufted

For Automobile Steering Wheel Covers.
Claims use since on or about Feb. 23, 1950.

582,553. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Hammarlund Manufacturing Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 19, 1950; amended to application, Supplemental Register, Sept. 3, 1953, Serial No. 602,450.

MULTI-GATE

For Remote Supervisory Control Equipment Intended Primarily for the Operation of Unattended Relay Repeaters, or Transmitters and Receivers To Accomplish Mechanical Functions at Remote Points.
Claims use since July 19, 1950.

582,554. (Class 7. Cordage.) Herman W. Patterson, doing business as The Ti-Not Company, Overland Park, Kans. Original filed, act of 1946, Principal Register, Nov. 29, 1950; amended to application, Supplemental Register, Oct. 18, 1952, Serial No. 607,091.

TI-NOT

For Rubber Bands Adapted for Tying Vegetables, Plants, Packages, and for Other Purposes.
Claims use since Sept. 5, 1950.

582,555. (Class 37. Paper and Stationery.) The Standard Register Company, Dayton, Ohio. Original filed, act of 1946, Principal Register, Jan. 18, 1951; amended to application, Supplemental Register, Sept. 8, 1953, Serial No. 608,961.

STANDARD REGISTER DAYTON, O.

Applicant claims ownership of Registration No. 140,060.
For Partially Blank Business Forms.
Claims use since Sept. 15, 1950.

582,556. (Class 37. Paper and Stationery.) Courtney C. Wall, Ozark Beach, Mo. Original filed, act of 1946, Principal Register, Feb. 26, 1951; amended to application, Supplemental Register, July 8, 1953, Serial No. 610,529.

— Quick-Site —
NON GLARE ACCOUNTING FORMS AND VISIBLE EQUIPMENT
COURTNEY C. WALL

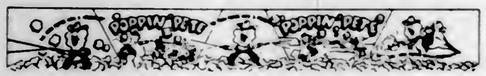
All wording shown in the drawing with the exception of the term "Quick-Site" is disclaimed apart from said term.
For Bookkeeping and Accounting Forms and Loose Leaf Binders.
Claims use since Jan. 15, 1951.

582,557. (Class 39. Clothing.) Phil-Maid, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, June 14, 1951; amended to application, Supplemental Register, Sept. 11, 1953, Serial No. 615,187.

Nitee-Kool

For Ladies' Half Slips, Panties, Pajamas, and Dressing, Negligee, and Nightgowns.
Claims use since on or about May 16, 1951.

582,558. (Class 21. Electrical Apparatus, Machines, and Supplies.) U. S. Manufacturing Corporation, Decatur, Ill. Original filed, act of 1946, Principal Register, July 25, 1951; amended to application, Supplemental Register, Aug. 26, 1953, Serial No. 616,928.



For Electric Corn Poppers for Use Domestically and Commercially.
Claims use since May 14, 1951.

582,559. (Class 39. Clothing.) H. B. W. Snelling, doing business as Paraphernalia, Provincetown, Mass. Original filed, act of 1946, Principal Register, Oct. 12, 1951; amended to application, Supplemental Register, Aug. 5, 1953, Serial No. 619,937.

PARAPHERNALIA

For Men's, Women's, and Children's Wearing Apparel—Namely, Slacks, Outer Shorts, Shirts, Coats, Capes, Jackets, Sweaters, Dresses, Skirts, Blouses, Belts, Hats, Scarfs, Shoes, Stockings, Aprons, Bathing Suits, and Swim Trunks.
Claims use since June 8, 1951.

582,560. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Anglo Fabrics Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 4, 1951; amended to application, Supplemental Register, Aug. 21, 1953, Serial No. 622,062.

Anglo

Applicant claims ownership of Registrations Nos. 352,998, 396,059, and 540,861.
For Wool, Rayon, Cotton, and Silk Piece Goods, as Well as Combinations Thereof.
Claims use since May 1, 1940.

582,561. (Class 40. Fancy Goods, Furnishings, and Notions.) George Dickstein, Dupont, Pa. Original filed, act of 1946, Principal Register, Dec. 6, 1951; amended to application, Supplemental Register, Oct. 31, 1952, Serial No. 622,146.

IRONZON

The drawing is lined for blue.
For Knee Patches for Blue Jeans.
Claims use since Nov. 1, 1950.

582,562. (Class 19. Vehicles.) Charles Ulmer, Inc., City Island, N. Y. Original filed, act of 1946, Principal Register, Dec. 15, 1951; amended to application, Supplemental Register, Sept. 9, 1953, Serial No. 622,567.

ULMER

For Sails.
Claims use since 1947.

582,563. (Class 19. Vehicles.) The Cleveland Graphite Bronze Company, Cleveland, Ohio. Filed Jan. 25, 1952. Serial No. 624,076.

Moorooth is the name

Applicant claims ownership of Registration No. 525,868.
For Automotive Vehicle Chassis Parts—Namely, King Bolt Sets, Shackle Sets, Spring Bolt and Bushing Sets, Tie Rod and Tie Rod End Sets, Drag Link Sets and Drag Link End Sets, Wheel Suspension Parts Sets, Radius Rod Sets, and Knee-Action Coil Spring Sets.
Claims use since May 1934.

582,564. (Class 38. Prints and Publications.) The Hydraulics Publishing Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Feb. 12, 1952; amended to application, Supplemental Register, Sept. 4, 1953, Serial No. 624,833.

VACUUM ENGINEERING

For Publication Published Monthly or From Time to Time, the Subject of Which Is Directed to Vacuum Engineering.
Claims use since Jan. 28, 1952.

582,565. (Class 39. Clothing.) Mam'selle Lingerie, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 29, 1952; amended to application, Supplemental Register, Aug. 19, 1953, Serial No. 625,747.

"DRI-EZE"

For Children's Panties.
Claims use since Dec. 15, 1951.

582,566. (Class 22. Games, Toys, and Sporting Goods.) M. Denkert & Company, Johnstown, N. Y. Original filed, act of 1946, Principal Register, Mar. 1, 1952; amended to application, Supplemental Register, Sept. 15, 1953, Serial No. 625,791.



For Foot-Balls, Basket Balls, Volley Balls, and Striking Bags Made of Rubber and Leather.
Claims use since August 1938.

582,567. (Class 18. Medicines and Pharmaceutical Preparations.) The O. A. Cooper Company, Humboldt and Beatrice, Nebr. Original filed, act of 1946, Principal Register, Mar. 5, 1952; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 625,971.

RU-MEN

For Food Supplement for Cattle in Either Meal or Pelleted Form, Designed To Be Used as a Mineral and Protein Supplement in Dry Lot Feeding, With Particular Emphasis on the Inclusion of Specific Ingredients To Promote Greater Activity of Rumen Bacteria for Producing Better Digestion of High Rations Cellulose.
Claims use since Jan. 4, 1952.

582,568. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Lester H. Kanehl, Oklahoma City, Okla. Original filed, act of 1946, Principal Register, Mar. 17, 1952; amended to application, Supplemental Register, Aug. 4, 1953, Serial No. 626,577.

SPORTOWEL

For Textile Towels.
Claims use since Aug. 1, 1950.

582,569. (Class 39. Clothing.) Sidney J. Kreiss, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 22, 1952; amended to application, Supplemental Register, Aug. 12, 1953, Serial No. 626,889.

Designer Tones

For Ladies' Hosiery.
Claims use since Mar. 6, 1952.

582,570. (Class 39. Clothing.) Kantor Bros. Neckwear Co., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Mar. 28, 1952; amended to application, Supplemental Register, Aug. 27, 1953, Serial No. 627,191.

Tiecraft

For Cravats.
Claims use since Mar. 10, 1952.

582,571. (Class 39. Clothing.) Kurtzman Brothers, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Apr. 18, 1952; amended to application, Supplemental Register, Feb. 17, 1953, Serial No. 628,281.

FEATHERSTONE

For Men's Suits and Topcoats.
Claims use since Nov. 30, 1951.

582,572. (Class 27. Horological Instruments.) Watson Watch Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, July 12, 1952; amended to application, Supplemental Register, June 16, 1953, Serial No. 632,496.

WATSON

For Watches, Clocks, and Parts Thereof, and Watches and Attached Wristbands Sold as a Unit.
Claims use since June 10, 1952.

582,573. (Class 39. Clothing.) Gaynes, Incorporated, New York, N. Y. Original filed, act of 1946, Principal Register, July 14, 1952; amended to application, Supplemental Register, July 23, 1953, Serial No. 632,519.

Miss Kirk

For Women's Suits, Coats, Dresses, Jackets.
Claims use since July 7, 1952.

582,574. (Class 39. Clothing.) Joseph H. Cohen & Sons, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 21, 1952; amended to application, Supplemental Register, Aug. 6, 1953, Serial No. 632,827.

WALGER

For Men's Clothing—Namely, Suits, Trousers, Coats, and Topcoats.
Claims use since June 11, 1952.

582,575. (Class 38. Prints and Publications.) American Institute of Electrical Engineers, New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 15, 1952; amended to application, Supplemental Register, Aug. 31, 1953, Serial No. 633,955.

Communication and Electronics

For Monthly Periodical.
Claims use since July 29, 1952.

582,576. (Class 46. Foods and Ingredients of Foods.) Benedict Packing Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 26, 1952; amended to application, Supplemental Register, July 27, 1953, Serial No. 634,445.

BENEDICT

For Canned and Bottled Onions and Pickles.
Claims use since June 16, 1952.

582,577. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) N. Erlanger, Blumgart & Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 26, 1952; amended to application, Supplemental Register, Aug. 18, 1953, Serial No. 634,452.

WINDOWEAVE

For Fabrics in the Piece Made of Rayon, Nylon, Silk, Wool, Cotton, or Mixtures or Blends Thereof.
Claims use since Aug. 13, 1952.

582,578. (Class 38. Prints and Publications.) American Institute of Electrical Engineers, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 8, 1952; amended to application, Supplemental Register, Aug. 31, 1953, Serial No. 634,962.

Power Apparatus and Systems

For Bi-Monthly Periodical.
Claims use since Aug. 19, 1952.

582,579. (Class 22. Games, Toys, and Sporting Goods.) Electro-Snap Switch & Mfg. Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 16, 1952; amended to application, Supplemental Register, Aug. 13, 1953, Serial No. 635,297.

SUPER TWIN ROTATION

For Coin-Controlled Amusement Game Apparatus in the Nature of a Shuffle Board.
Claims use since July 8, 1952.

582,580. (Class 12. Construction Materials.) Aluminum Greenhouses, Inc., Cleveland, Ohio. Original filed, act of 1946, Principal Register, Oct. 14, 1952; amended to application, Supplemental Register, July 13, 1953, Serial No. 636,579.

Everlite

For Prefabricated Greenhouses.
Claims use since on or about Mar. 1, 1952.

582,581. (Class 39. Clothing.) Archer Mills, Inc., Columbus, Ga. Original filed, act of 1946, Principal Register, Oct. 14, 1952; amended to application, Supplemental Register, Aug. 11, 1953, Serial No. 636,581.

FITLINE

For Ladies' Hosiery.
Claims use since May 1, 1952.

582,582. (Class 38. Prints and Publications.) The Reuben H. Donnelley Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 17, 1952; amended to application, Supplemental Register, Aug. 21, 1953, Serial No. 636,780.

Rug Magazine

For Periodical Publication, Published Monthly.
Claims use since April 1928.

582,583. (Class 22. Games, Toys, and Sporting Goods.) Edward C. Koch, Highland, Ill. Original filed, act of 1946, Principal Register, Oct. 20, 1952; amended to application, Supplemental Register, Sept. 14, 1953, Serial No. 636,895.

SUPERIOR

For Sport Nets—Namely, Badminton, Volley Ball, Basket Ball, and Fish Nets.
Claims use since Sept. 2, 1952.

582,584. (Class 39. Clothing.) Van Mour, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 26, 1952; amended to application, Supplemental Register, June 16, 1953, Serial No. 638,674.

Talla Maide

For Ladies' and Misses' Coats, Suits, Jackets, and Skirts.
Claims use since Nov. 3, 1951.

582,585. (Class 22. Games, Toys, and Sporting Goods.) Softskin Toys, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 22, 1952; amended to application, Supplemental Register, Sept. 17, 1953, Serial No. 639,904.



For Stuffed Toys and Stuffed Dolls.
Claims use since Feb. 15, 1952.

582,586. (Class 26. Measuring and Scientific Appliances.) Roger Theodore Schmitz, doing business under the firm name of Rogers Automotive Supply Co., Pasadena, Calif. Original filed, act of 1946, Principal Register, Jan. 9, 1953; amended to application, Supplemental Register, Sept. 4, 1953, Serial No. 640,583.

OIL-Vuer

For Oil and Oil Filter Condition Sight Indicators.
Claims use since Aug. 15, 1952.

582,587. (Class 37. Paper and Stationery.) Iago Wall Paper Corporation, Chicago, Ill. Filed Feb. 17, 1953, Serial No. 642,356.

Redi-2-Hang

For Wall Paper.
Claims use since Dec. 27, 1951.

582,588. (Class 46. Foods and Ingredients of Foods.) American Chewing Products Corp., Newark, N. J. Original filed, act of 1946, Principal Register, Apr. 8, 1953; amended to application, Supplemental Register, July 2, 1953, Serial No. 644,887.



Applicant claims ownership of Registration No. 259,081.
For Chewing Gum.
Claims use since December 1937.

582,589. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) U. S. Handbag Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 15, 1953; amended to application, Supplemental Register, Aug. 26, 1953, Serial No. 645,353.

Madagascar

For Ladies' Handbags and Travelling Cases.
Claims use since Feb. 18, 1952.

Service Marks

582,590. (Class 107. Education and Entertainment.) Cowles Broadcasting Company, Des Moines, Iowa. Original filed, act of 1946, Principal Register, June 25, 1951; amended to application, Supplemental Register, Oct. 29, 1952, Serial No. 615,629.

TELE-TEACH

For Instructing in the Fundamentals of Sport and in the Basic Principles of Music and Science, and in Foreign Language Speech and Grammar, Through the Medium of Television Broadcast Programs; and, Leasing Film To Be Used by Others on Television Programs in Instructing in the Aforementioned Fields.
Claims use since Sept. 30, 1950.

582,591. (Class 106. Material Treatment.) Hull Dye Works, Derby, Conn. Original filed, act of 1946, Principal Register, Aug. 5, 1952; amended to application, Supplemental Register, July 6, 1953, Serial No. 633,494.

Hull Supreme

For Dyeing and Treating Fabrics To Make Them Water-Repellent and Wrinkle Resistant.
Claims use since June 1952.

TRADE-MARK REGISTRATIONS RENEWED

41,961. UNIT. Registered Jan. 26, 1904. P. & F. Corbin. Re-renewed Jan. 26, 1954, to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut. Locks and Latches. Class 25.

92,077. "HUNTER'S FLYER" AND DESIGN LINED FOR RED AND GREEN. Registered June 17, 1913. The Hunter Milling Company, Wellington, Kans., a corporation of Kansas. Re-renewed June 17, 1953. Wheat-Flour. Class 46.

92,465. REPRESENTATION OF MAN LOOKING THROUGH TELESCOPE. Registered July 8, 1913. Abraham Posner. Re-renewed July 8, 1953, to Dr. A. Posner Shoes, Inc., New York, N. Y., a corporation of New York. Leather and Canvas Shoes. Class 39.

92,935. "CANCO" AND DESIGN. Registered Aug. 12, 1913. American Can Company, New York, N. Y., a corporation of New Jersey. Re-renewed Aug. 12, 1953. Friction-Top Cans, Coffee-Cans, Spice-Cans, Baking-Powder Cans, Varnish Cans, Etc. Class 2.

93,103. MAIL-OM-ETER. Registered Aug. 19, 1913. Mailometer Company, Detroit, Mich. Re-renewed Aug. 19, 1953, to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware. Combined Sealing and Stamping Machines and Sealing-Machines. Class 23.

93,313. "THE LIBERATOR" ETC. AND DESIGN. Registered Sept. 2, 1913. Walters & Co., London, England. Re-renewed Sept. 2, 1953, to Fabrica de Tabacos J. F. Rocha, S. A., Havana, Cuba, a corporation organized under the laws of the Republic of Cuba. Cigars. Class 17.

93,432. NATIONAL WATCH CO. Registered Sept. 16, 1913. Elgin National Watch Company, Elgin and Chicago, Ill. Re-renewed Sept. 16, 1953, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watch-Movements. Class 27.

93,858. SERVALOT. Registered Oct. 21, 1913. Johnson Educator Food Company, Boston, Mass. Re-renewed Oct. 21, 1953, to Megowen-Educator Food Company, Lowell, Mass., a corporation of Massachusetts. Biscuit. Class 46.

94,999. KOHLER. Registered Jan. 20, 1914. Kohler Co., Sheboygan, Wis., a corporation of Wisconsin. Re-renewed Jan. 20, 1954. Bath-tubs, Lavatories, Sinks, Water-Closets, Etc. Class 13.

95,027. "WHITTALL" AND DESIGN. Registered Jan. 20, 1914. Matthew J. Whittall. Re-renewed Jan. 24, 1954, to M. J. Whittall Associates, Inc., Worcester, Mass., a corporation of Massachusetts. Carpets and Rugs. Class 42.

95,144. PILGRIM. Registered Feb. 3, 1914. Plymouth Cordage Company, Plymouth, Mass., a corporation of Massachusetts. Re-renewed Feb. 3, 1954. Fibrous and Textile Rope and Twine. Class 7.

303,230. CRUNCHIES. Registered May 16, 1933. Johnson Educator Food Company, Cambridge, Mass. Renewed May 16, 1953, to Megowen-Educator Food Company, Lowell, Mass., a corporation of Massachusetts. Crackers. Class 46.

303,410. REPRESENTATION OF PENGUIN STANDING ON SKEIN OF YARN. Registered May 23, 1933. Compagnie Franco Australienne De Laines Filees. Renewed May 23, 1953, to Compagnie Franco Australienne De Laines Filees, Societe a Responsabilite Limitee, Roubaix, France, a corporation organized under the laws of the Republic of France. Woolen Thread and Yarn. Class 43.

303,413. LAINES DU PINGOUIN. Registered May 23, 1933. Compagnie Franco Australienne De Laines Filees. Renewed May 23, 1953, to Compagnie Franco Australienne de Laines Filees, Societe a Responsabilite Limitee, Roubaix, France, a corporation organized under the laws of the Republic of France. Woolen Thread and Yarn. Class 43.

303,567. BRUSH TONE. Registered May 30, 1933. The Stetson Press, Boston, Mass. Renewed May 30, 1953, to Barnard J. Lewis, Brookline, Mass. Printing Inks. Class 11.

303,794. "TINY STEP" AND DESIGN. Registered June 6, 1933. The Moran Shoe Company, Inc. Renewed June 6, 1953, to Moran Shoe Company, Carlyle, Ill., a corporation of Illinois. Shoes Made of Leather and Fabric. Class 39.

304,786. STARTIX. Registered July 18, 1933. Eclipse Machine Company. Renewed July 18, 1953, to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware. Unitary-Automatic Electrical Starting Mechanism for Internal Combustion Engines, Etc. Class 21.

304,885. ORVUS. Registered July 18, 1933. The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Renewed July 18, 1953. Sulfo Derivative of Higher Fatty Alcohol Having Cleansing and Detergent Properties. Class 52.

305,343. LUBMOBILE. Registered Aug. 15, 1933. Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri. Renewed Aug. 15, 1953. Portable Lubricant Dispensing Apparatus. Class 23.

305,475. SIMFAST. Registered Aug. 15, 1933. Simmons Company, New York, N. Y., a corporation of Delaware. Renewed Aug. 15, 1953. Bedsteads, Couches, Cots, Cribs, Etc. Class 32.

305,556. "BLOCK'S" ETC. AND DESIGN. Registered Aug. 22, 1933. Harry J. Block, Ellensburg, Wash. Renewed Aug. 22, 1953, to The Wm. S. Merrell Company, Cincinnati, Ohio, a corporation of Delaware. Germicidal and Antiseptic Preparation To Be Applied to the Skin Either Before or After Shaving, and for Use in Treating Chapped Face, Etc. Class 51.

305,577. OLD DIXIE. Registered Aug. 22, 1933. United Distillers Limited, Vancouver, British Columbia, Canada. Renewed Aug. 22, 1953, to Continental Distilling Corporation, Philadelphia, Pa., a corporation of Delaware. Whiskey and Gin. Class 49.

305,593. "ONE-STOP" AND DESIGN. Registered Aug. 22, 1933. The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed Aug. 22, 1953. Garments—Namely, Uniforms, One-Piece Suits, Caps, Shirts, Etc. Class 39.

305,669. "WEE WALKER" AND DESIGN. Registered Aug. 22, 1933. The Moran Shoe Company, Inc. Renewed Aug. 22, 1953, to Moran Shoe Company, Carlyle, Ill., a corporation of Illinois. Shoes Made of Leather and Fabric. Class 39.

305,707. ASPLIT. Registered Aug. 22, 1933. I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Renewed Aug. 22, 1953, to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania. Self-Hardening, Acid- and Water-Proof Construction Cements. Class 12.

305,724. SHIRLAN. Registered Aug. 22, 1933. Bayer Semesan Company, Inc. Renewed Aug. 22, 1953, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. General Horticultural Disinfectant. Class 6.

305,777. VI-PAK. Registered Aug. 22, 1933. John F. McKenna. Renewed Aug. 22, 1953, to Thomas G. Beard, Los Angeles, Calif. Concentrated Food for Dogs, Cats, and Foxes. Class 46.

305,783. "SATINWAX" AND DESIGN. Registered Aug. 22, 1933. Economics Laboratory, Inc., St. Paul, Minn. Renewed Aug. 22, 1953, to L. G. Williams, doing business as Satinwax Products Distributors, Oakland, Calif. Liquid Polishing Wax. Class 4.

305,915. PERL. Registered Aug. 29, 1933. Naamlooze Vennootschap Hero Conserven Breda, Teteringen, near Breda, Netherlands, a limited liability company organized under the laws of the Netherlands. Renewed Aug. 29, 1953. Non-Alcoholic Maltless Beverage Made From Apples. Class 45.

305,928. ALSIMAG. Registered Aug. 29, 1933. American Lava Corporation, Chattanooga, Tenn., a corporation of Tennessee. Renewed Aug. 29, 1953. Non-Corrosive, Heat-Resisting, Fired Material Derived by Combination of Materials of Mineralogic Origin, Cut, Extruded, Pressed or Machined to Shapes and Dimensions for Use as Electric Insulation. Class 21.

305,938. IMPROVITE. Registered Aug. 29, 1933. Samuel Frankel, New York, N. Y. Renewed Aug. 29, 1953, to Samuel Frankel, Belle Harbor, N. Y. Alloy Used in Improving Grey Iron Castings. Class 14.

306,062. "GALVIN'S" ETC. AND DESIGN. Registered Sept. 5, 1933. Stuyvesant Cigar Company Incorporated, New York, N. Y., a corporation of New York. Renewed Sept. 5, 1953. Tobacco Mixture. Class 17.

306,141. VITEX. Registered Sept. 12, 1933. Nopco Laboratories, Inc. Renewed Sept. 12, 1953, to Nopco Chemical Company, Harrison, N. J., a corporation of New Jersey. Vitamine D-Carrying Menstruums for Ingredients of Breads, Biscuits, Etc. Class 46.

306,277. ONLEE. Registered Sept. 12, 1933. F. G. Vogt & Sons, Incorporated. Renewed Sept. 12, 1953, to Karl Seiler & Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Boiled Ham. Class 46.

306,296. "META" ETC. AND DESIGN. Registered Sept. 12, 1933. Lonza Elektrizitätswerke und Chemische Fabriken Aktiengesellschaft, Gampel and Basel, Switzerland, a corporation organized under the laws of Switzerland. Renewed Sept. 12, 1953. Agglomerates of Solid Aldehyde, Solid Methyl Alcohol, Etc. Class 6.

306,324. VIDEX. Registered Sept. 12, 1933. The Paris Medicine Company, Wilmington, Del., and St. Louis, Mo. Renewed Sept. 12, 1953, to Grove Laboratories, Inc., St. Louis, Mo., a corporation of Delaware. Medicinal Tablet for the Relief of Dysmenorrhea, Neuralgia, Headache, Hiccough, Intestinal Spasms, Insomnia, Earache, and Pain in General. Class 18.

306,336. GAS PIPES. Registered Sept. 19, 1933. Candy Specialties Company, Chicago, Ill., a corporation of Illinois. Renewed Sept. 19, 1953. Candy. Class 46.

306,456. BAGUETTE. Registered Sept. 19, 1933. Frances Sinagnan et Cie, Inc., New York, N. Y., a corporation of New York. Renewed Sept. 19, 1953. Chocolate Candies. Class 46.

306,474. VANILLA VERITAS. Registered Sept. 19, 1933. Florasynth Laboratories, Inc., New York, N. Y., a corporation of New York. Renewed Sept. 19, 1953. Pure Vanilla Concentrate for Food Flavoring Purposes. Class 46.

306,704. DEXIGRAPH. Registered Sept. 26, 1933. Remington Rand Inc., Buffalo, N. Y. Renewed Sept. 26, 1953, to Remington Rand Inc., New York, N. Y., a corporation of Delaware. Photographic Chemicals, Photo Developing and Fixing Compositions. Class 6.

306,780. "THE PORTER'S FRIEND" ETC. AND DESIGN. Registered Sept. 26, 1933. The North American Polish Company. Renewed Sept. 26, 1953, to North American Polish Corporation, Cleveland, Ohio, a corporation of Ohio. Liquid Metal Polish—Namely, a Cleaning and Polishing Compound or Material for Cleaning and Polishing Metallic and Wood Surfaces, Etc. Class 4.

306,781. "THE PORTERS FRIEND" AND DESIGN. Registered Sept. 26, 1933. The North American Polish Company. Renewed Sept. 26, 1953, to North American Polish Corporation, Cleveland, Ohio, a corporation of Ohio. Metal Polish in Powder Form—Namely, a Cleaning and Polishing Compound or Material for Cleaning and Polishing Metallic and Wood Surfaces, Etc. Class 4.

306,958. DIXOLINE. Registered Oct. 10, 1933. Dixie Distributors Incorporated, Ann Arbor, Mich. Renewed Oct. 10, 1953, to Dixie Distributors Incorporated, Detroit, Mich., a corporation of Michigan. Gasoline. Class 15.

307,023. BRIGSTEEL. Registered Oct. 10, 1933. Briggs Manufacturing Co., Detroit, Mich., a corporation of Michigan. Renewed Oct. 10, 1953. Sinks, Lavatories, and Bathtubs. Class 13.

307,123. DEXIGRAPH. Registered Oct. 17, 1933. Remington Rand Inc., Buffalo, N. Y. Renewed Oct. 17, 1953, to Remington Rand Inc., New York, N. Y., a corporation of Delaware. Photographing Cameras; Developing, Fixing, and Washing Cabinets, Trays, Etc. Class 26.

307,174. ROBERT SURREY. Registered Oct. 17, 1933. Hart Schaffner & Marx, Chicago, Ill., a corporation of New York. Renewed Oct. 17, 1953. Men's Coats, Vests, Trousers, Etc. Class 39.

307,414. "BLACK BULL" ETC. AND DESIGN. Registered Oct 24, 1933. George Willsher, Dundee, Angus, Scotland. Renewed Oct. 24, 1953. Whisky. Class 49.

307,488. REPRESENTATION OF SAILING VESSEL. Registered Oct. 24, 1933. Marine Chemicals Company, Ltd., doing business as Marinesia Laboratories, San Francisco and South San Francisco, Calif. Renewed Oct. 24, 1953, to Merck & Co., Inc., Rahway, N. J., and South San Francisco, Calif., a corporation of New Jersey. Pharmaceutical Preparation Containing Magnesium Hydroxide and the Salts of Other Elements Present in Ocean Water, Etc. Class 51.

307,568. FOAM A. Registered Oct. 31, 1933. National Pigments & Chemical Company, St. Louis, Mo. Renewed Oct. 31, 1953, to National Lead Company, New York, N. Y., a corporation of New Jersey. Barytes. Class 1.

307,871. BARCLAY & CO. Registered Nov. 7, 1933. Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Renewed Nov. 7, 1953. Toilet Soap. Class 52.

307,873. CYANEGG. Registered Nov. 7, 1933. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Renewed Nov. 7, 1953. Cyanid Salts Adapted for Metallurgical and Other Uses. Class 6.

307,989. "CANCO" WITHIN CIRCLE. Registered Nov. 14, 1933. American Can Company, New York, N. Y., a corporation of New Jersey. Renewed Nov. 14, 1953. Can Openers, Bottle Openers, Combined Can Opening and Dispensing Devices, Etc. Class 23.

308,089. BARCLAY & CO. Registered Nov. 21, 1933. Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Renewed Nov. 21, 1953. Toilet Cream, Medicated Preparations for the Treatment of the Hair, Scalp, and Skin, Etc. Class 51.

308,090. MURRAY & LANMAN. Registered Nov. 21, 1933. Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Renewed Nov. 21, 1953. Toilet Water. Class 51.

308,200. INCONEL. Registered Nov. 21, 1933. The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware. Renewed Nov. 21, 1953. Nickel Alloys and Alloys of Nickel, Chromium, and Iron. Class 14.

308,244. "SHUR STITCH" ETC. Registered Nov. 28, 1933. Independent Casing Company. Renewed Nov. 28, 1953, to Independent Casing Corporation, Chicago, Ill., a corporation of Illinois. Sausage Casings. Class 46.

308,384. SYSTEMENTRY. Registered Dec. 5, 1933. Shedd-Brown Mfg. Co., Minneapolis, Minn., a corporation of Minnesota. Renewed Dec. 5, 1953. Memorandum Calendars. Class 37.

308,410. LANMAN & KEMP. Registered Dec. 5, 1933. Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Renewed Dec. 5, 1953. Cathartic Pills, Sarsaparilla, Witch Hazel Extracts; Etc. Class 51.

308,901. "CLEARVIEW" AND DESIGN. Registered Dec. 26, 1933. The Sewing Machine Finger Protector Co., Leominster, Mass., an unincorporated company of Massachusetts. Renewed Dec. 26, 1953. Needle Guards for Sewing Machines. Class 23.

309,148. OLGA. Registered Jan. 2, 1934. Carter Coal Company, Washington, D. C. Renewed Jan. 2, 1954, to Olga Coal Company, Youngstown, Ohio, a corporation of West Virginia. Coal. Class 1.

309,541. SANDOCARNIT. Registered Jan. 16, 1934. Sandoz Chemical Works, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 16, 1954. Chemical Compounds Adapted for the Treatment of Textile Fibers and Fabrics. Class 6.

309,775. REPRESENTATION OF BELT WITH PURPLE EDGES. Registered Jan. 30, 1934. The Republic Rubber Company. Renewed Jan. 30, 1954, to Lee Rubber and Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio, a corporation of New York. Power Transmission Belts. Class 35.

309,862. "PIKES PEAK" AND DESIGN. Registered Feb. 6, 1934. The Colorado Milling & Elevator Co., Denver, Colo., a corporation of Colorado. Renewed Feb. 6, 1954. Cake Flour, Pancake Flour, Biscuit Flour. Class 46.

309,868. RITZIE. Registered Feb. 6, 1934. John Ritzenthaler, New York, N. Y. Renewed Feb. 6, 1954. Dish, Floor, Dust, and Polishing Cloths. Class 29.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

123,270. ENTERPRISE. Registered Oct. 22, 1918. Phillips & Buttorff Mfg. Co., Nashville, Tenn. Coal and Wood Stoves, Etc. Class 34. The drawing is hereby amended to appear as follows:

Enterprise

306,151. "UNIVERSAL" AND DESIGN. Registered Sept. 12, 1933. Landers, Frary & Clark, Hartford and New Britain, Conn. Electrically-Heated Chafing-Dishes, Etc. Class 21. Amended as follows: In the statement, lines 15 and 16, "cooking ranges," is deleted.

320,548. "ORANGE" AND DESIGN. Registered Jan. 1, 1935. Famous Sales Company, Chicago, Ill. Lubricating Oils and Greases. Class 15. The drawing is hereby amended to appear as follows:

ORANGE

SOLID OIL

328,172. ENTERPRISE. Registered Sept. 17, 1935. Phillips & Buttorff Mfg. Co., Nashville, Tenn. Electric Ranges. Class 21. The drawing is hereby amended to appear as follows:

Enterprise

351,358. "3 M CO./B-A" AND DESIGN. Registered Oct. 26, 1937. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Adhesives, Etc. Class 5. Amended as follows: In the statement, lines 7, 8, and 9, "adhesive tape, adhesive sheet and fabric material," is deleted.

520,793. ENTERPRISE. Registered Feb. 7, 1950. Phillips & Buttorff Manufacturing Company, Nashville, Tenn. Electric Water Heaters and Electric Space Heaters. Class 21. The drawing is hereby amended to appear as follows:

Enterprise

547,880. JOHNNY-MOP. Registered Sept. 11, 1951. Dorothy F. Rodgers, New York, N. Y., assignor, by mesne assignments, to Personal Products Corporation, North Brunswick Township, N. J., a corporation of New Jersey. Disposable Cleaning Swab and Handles and Holders Therefor. Class 29. The drawing is hereby amended to appear as follows:

jonny MOP

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

157,225. TRI-PLEX SHOES. Registered July 25, 1922. Renewed July 25, 1942. Tri-plex Shoe Company, Philadelphia, Pa. Boots and Shoes Made of Leather and Fabric. Class 39. New certificate under section 7(c) issued Nov. 17, 1953, to Spencer Shoe Corporation, Boston, Mass., a corporation of Massachusetts.

379,735. BI-CAP. Registered July 23, 1940. Wallace H. Strowd, Nashville, Tenn. Product Composed of Wheat Germ and Other Ingredients, Etc. Class 46. New certificate under section 7(c) issued Nov. 17, 1953, to Chas. Pfizer & Co., Inc., New York, N. Y., a corporation of Delaware.

443,297. MOULIN ROUGE. Registered Aug. 23, 1949. Societe d'Etudes, de Recherches, de Representation et d'Exploitation (S. E. R. R. E.) Societe a Responsabilite Limitee, Paris, France. Lipstick, Mascara, Etc. Class 51 (formerly Class 6). New certificate under section 7(c) issued Nov. 17, 1953, to Bourjois, Inc., New York, N. Y., a corporation of New York.

569,172. "INFO" AND DESIGN. Registered Jan. 13, 1953. The Colony Broadcasting Corporation, New Haven, Conn. Periodicals. Class 38. New certificate under section 7(c) issued Nov. 17, 1953, to Sol D. Chain, Hamden, Conn.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 220,486. Registered Nov. 9, 1926. Rex Products & Mfg. Company, Detroit, Mich. Republished by Detrex Corporation, Detroit, Mich., a corporation of Michigan.



For Water-Softening Powders of Trisodium Phosphate Base.
Claims use since January 1920.

Reg. No. 304,961. Registered July 25, 1933. Geigy Company, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

POLAR

For Dyes and Chemicals Employed in Dyeing.
Claims use since Aug. 26, 1913.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 367,448. Registered May 16, 1939. The Independent Nail & Packing Company Inc., Bridgewater, Mass., a corporation of Massachusetts. Republished by registrant.



The word "Nails," the expression "They Hold Forever," and the representation of a nail are disclaimed apart from the mark as shown.
For Nails.
Claims use since on or about July 1, 1936.

CLASS 20

LINOLEUM AND OILED CLOTH

Reg. No. 444,050. Registered June 27, 1950. The Munising Paper Company, Chicago, Ill., a corporation of Ohio. Republished by registrant.

Manvalon

For Fibrous Material Impregnated and Coated With Resinous Material Which Is Merchandized in Roll and Sheet Form and Adapted for Uses Similar to That of Oilcloth.
Claims use since Oct. 24, 1945.

CLASS 37

PAPER AND STATIONERY

Reg. No. 215,037. Registered July 6, 1926. Carew Manufacturing Company, South Hadley Falls, Mass. Republished by Valley Paper Company, Holyoke, Mass., a corporation of Massachusetts.

CLASSIC

For Bond Paper.
Claims use since Mar. 31, 1898.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 167,593. Registered May 1, 1923. Press Union Publishing Company, Atlantic City, N. J., a corporation of New Jersey. Republished by registrant.

Atlantic City Evening Union

For Title of Its Publication.
Claims use since Sept. 3, 1888.

CLASS 39

CLOTHING

Reg. No. 392,528. Registered Dec. 30, 1941. Leeds Ltd. Coats, Inc., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York (1944).

DOUBLE ENTRY

For Women's, Misses', and Juniors' Coats, Suits, Jackets, Capes, Skirts, Coat and Suit Ensembles, and Suit and Cape Ensembles.
Claims use since May 1, 1940.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 372,659. Registered Nov. 7, 1939. Ralph S. Harte, doing business as Harte & Co., New York, N. Y. Republished by Plicose Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York.



For Cellulose Processed Waterproof Materials Used in the Manufacture of Curtains, Draperies, Aprons, and Shower Curtains.
Claims use since Mar. 9, 1939.

Reg. No. 383,963. Registered Dec. 31, 1940. Harte & Company, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

"SWADEX"

For Waterproof Piece Goods.
Claims use since Jan. 6, 1940.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 154,056. Registered Apr. 4, 1922. Home Bottling Works, Memphis, Tenn. Republished by Jamie S. Chase, doing business as Chase Bottling Co., Memphis, Tenn.

CHASE

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.
Claims use since Apr. 1, 1918.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

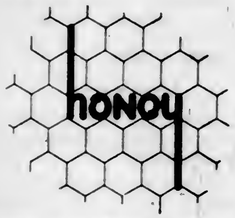
Reg. No. 108,370. Registered Feb. 1, 1916. Robin Hood Mills, Limited, Calgary, Alberta and Moose Jaw, Saskatchewan, Canada. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

ROBIN HOOD



For Farina, Rolled Oats, and Oatmeal.
Claims use since about June 1, 1911.

Reg. No. 342,822. Registered Feb. 2, 1937. Honey Packers, Inc., New York, N. Y. Republished by R. F. Remer, Sioux City, Iowa.



No claim is made to the word "Honey," per se, except in the special form of lettering shown.
For Honey.
Claims use since on or about Sept. 30, 1935.

Reg. No. 350,864. Registered Oct. 12, 1937. Murray Hill Restaurant, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Sauce Maison

Jack & Charlie's "21"

"Sauce Maison" is disclaimed apart from the mark as shown.
For Sauce in the Nature of Ketchup and Chili for Use on Meats, Fish, Etc.
Claims use since 1929.

Reg. No. 350,865. Registered Oct. 12, 1937. Murray Hill Restaurant, Inc., New York, N. Y., a corporation of New York. Republished by registrant.



Jack & Charlie's "21"

For Sauce in the Nature of Ketchup and Chili for Use on Meats, Fish, Etc.
Claims use since 1929.

Reg. No. 352,487. Registered Nov. 30, 1937. Ukiah Fruit Growers, Inc., Ukiah, Calif., a corporation of California. Republished by registrant.

MENDO MOUNT

For Fresh Deciduous Fruits.
Claims use since July 15, 1937.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No 142,049. Registered May 3, 1921. Louise Miller, West Somerville, Mass. Republished by J. Hubbard & Co., doing business as Odor-Never Co., Nashua, N. H., a firm.

Odor-Never

For Prevention of Excessive Perspiration.
Claims use since May 14, 1917.

REISSUES

NOVEMBER 17, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,736

ATTACHMENT FOR PRESSING IRONS

August F. W. Helmbold, Fort Thomas, Ky.
Original No. 2,618,729, dated November 18, 1952, Serial No. 173,422, July 12, 1950. Application for reissue July 16, 1953, Serial No. 368,545
6 Claims. (Cl. 219—29)

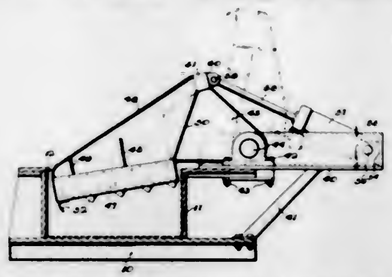


2. A paint scraper comprising in combination an electric heater including a bottom plate, a housing upstanding from said bottom plate, electric means within the housing adapted to heat the bottom plate, said bottom plate having an area defined by a forward point, a transverse rear edge and side edges substantially tapered from the ends of the transverse rear edge to the forward point, a panel of an area conforming substantially to the area of the bottom plate and defined by a forward end, a transverse rear edge and side edges substantially tapered from the ends of its transverse rear edge to its forward end, said panel being adapted to be in close physical contact with the bottom plate throughout the area thereof so that said panel is heated by said bottom plate, means integral with the panel edges outwardly thereof for releasably engaging the corresponding edges of the bottom plate, and a scraping flange depending from the panel transversely thereof inwardly of its transverse rear edge.

23,737

BALING PRESS

Harry W. Jones and Guilford Glaser, Knoxville, Tenn., assignors to Dempster Brothers, Incorporated, Knoxville, Tenn., a corporation of Tennessee
Original No. 2,616,312, dated November 4, 1952, Serial No. 89,436, April 25, 1949. Application for reissue February 3, 1953, Serial No. 334,987
11 Claims. (Cl. 78—0.5)



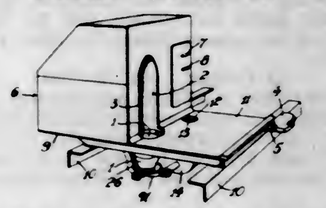
1. A baling press comprising a charging container having an open top, a bottom, and sides, a door arranged to close said open top, compression plunger means forming at least one of said sides and movable inwardly under said door when closed, and a pre-compacting means comprising a tamping head, a supporting arm attached to said head and pivotally [mounted] *mounting the head for swinging movement into and out of the container through* [adjacent] said open top, and operating means connected to said arm for swinging *the arm to move* said tamping head into and out of said container through said open top.

10. A baling press comprising a charging container having an open top, a bottom and sides, compression plunger means forming at least a portion of the sides and movable inwardly relatively to the container, a door substantially to close the open top, means pivotally mounting the door on the press adjacent one side of the container, a hopper externally of the container and upstanding beside the container laterally thereof, said hopper having a sloping wall extending upwardly outside the container beside the latter, means adjacent the upper end of said sloping wall pivotally mounting the hopper for upward swinging movement to dump the contents thereof into the open top of the container over the sloping wall.

23,738

PHOTOELECTRIC WEIGHING MECHANISM

Desmond Walter Molins and Cyril Best, London, England, and Edward Anthony Chandler, Montreal, Quebec, Canada, assignors to Moline Machine Company Limited, London, England, a British company
Original No. 2,595,803, dated May 6, 1952, Serial No. 105,632, July 19, 1949. Application for reissue April 21, 1953, Serial No. 350,276. In Great Britain July 22, 1948
9 Claims. (Cl. 265—58)



1. Weighing mechanism having a scale pan into which the substance to be weighed is placed by an operator, a weighbeam supporting said pan, a mirror on the weighbeam, a light sensitive cell, a fixed light source comprising means to form a line of light and direct it on to said mirror and thence to said light sensitive cell, mechanism operating in timed cycles adapted, [in response to a signal by an operator, and] during a predetermined part of each such cycle, to discharge a loaded scale pan, so that the pan is discharged at a predetermined time in said cycle, and means controlled by the light cell to prevent such discharge unless the pan contains at least the desired weight.

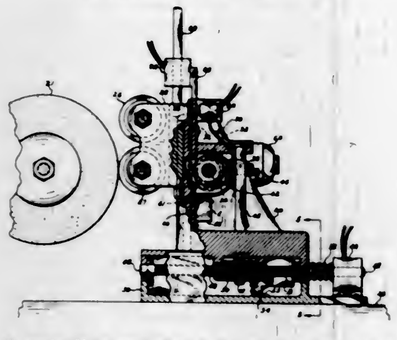
23,739

GRINDING MACHINE WITH CRUSH-DRESSING ATTACHMENT

Louis F. Polk, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio

Original No. 2,477,418, dated July 26, 1949, Serial No. 599,237, June 4, 1945. Application for reissue December 23, 1952, Serial No. 327,709

14 Claims. (Cl. 125—11)



3. A grinding machine having a frame and a grinding wheel rotatably mounted thereon, a crusher holder, rotatable crushing means on said holder for trueing the surface of the grinding wheel, means supporting said holder on said frame for movement in a plurality of directions substantially transverse of one another, and *power operated* means *operatively connected to said holder* for moving said holder sequentially first in one direction at a controlled rate to cause approach of the axes of the grinding wheel and the crushing means, and then in a second direction substantially transverse of said one direction to gradually change the distance between the axes of the grinding wheel and the crushing means.

23,740

CORROSION INHIBITING COMPOSITIONS AND METHOD

John W. Ryznar, La Grange Park, and Marjorie A. Peich, Chicago, Ill., assignors to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Original No. 2,515,529, dated July 18, 1950, Serial No. 685,379, July 22, 1946. Application for reissue March 18, 1953, Serial No. 343,275

13 Claims. (Cl. 23—204)

1. A corrosion inhibiting composition comprising essentially a water soluble polyphosphate and a water soluble inorganic complex cyanide, the ratio of said cyanide to said phosphate being within the range of 0.05 to 0.5 by weight of said phosphate, and said composition being capable of dissolving in water to give a dissolved phosphate concentration within the range of 0.1 grain per gallon to 5 grains per gallon of water and a dissolved cyanide concentration within the range of 0.05 grain per gallon to 0.5 grain per gallon of water.

5. A method of inhibiting corrosion in water which is in contact with ferrous metals at temperatures above about 180 degrees F. which comprises essentially incorporating with the water so that both are present at the same time (1) a polyphosphate and (2) a water soluble inorganic complex cyanide, the quantity of said polyphosphate in said water being within the range of 0.1 grain per gallon to 5 grains per gallon of said water, and the quantity of said inorganic cyanide in said water being within the range of 0.05 to 0.5 by weight of said polyphosphate.

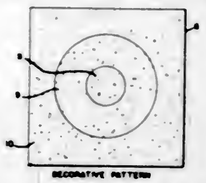
23,741

PROCESS OF PRODUCING FLOCKED DESIGNS

Edward Clayton Summers, Janesville, Wis.

Original No. 2,636,837, dated April 28, 1953, Serial No. 86,584, April 9, 1949. Application for reissue September 3, 1953, Serial No. 378,442

6 Claims. (Cl. 154—123)



1. A method of forming coated objects characterized by designs formed from a plurality of patterns and a plurality of portions and wherein the boundaries between the adjacent portions of said patterns are sharply defined, which comprises applying particulate matter to one face of a solvent-moistened, adhesive-coated backing, drying the adhesive coating and thereby affixing the particulate matter to said backing, applying a similar solvent-moistened adhesive coating to one face of a second backing, positioning said dried first backing over part of said coating on said second backing, whereby the solvent from said coating moistens the said first backing without moistening the particulate matter thereon, applying particulate matter of different properties on the adhesive-coated surface of said second backing and drying the adhesive coating, thereby affixing said particulate matter of different properties to said second backing without modifying the properties of the particulate matter of said first backing.

PLANT PATENTS

GRANTED NOVEMBER 17, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,229

BLACK WALNUT TREE

Carl Weschcke, St. Paul, Minn.

Application September 18, 1951, Serial No. 247,133

1 Claim. (Cl. 47—62)

A new and distinct variety of walnut tree characterized as to novelty by its hardiness to withstand extremes of temperature, the nuts thereof being at variance with the normal shape and size of the ordinary local black walnut, and having a thinner shell, good flavor, plump kernel, filling shell cavity and removable in halves and quarters; the light color of the pellicle and substance of kernel; and the shallow inner convolutions of the shell permitting easy extraction; keeping qualities being exceptional (3 years or longer at normal room temperature), all of which is substantially shown herein and described.

1,230

NECTARINE TREE

Frederick Wenzl Hof Maan, Omaha, Nebr.

Application April 5, 1952, Serial No. 280,779

1 Claim. (Cl. 47—62)

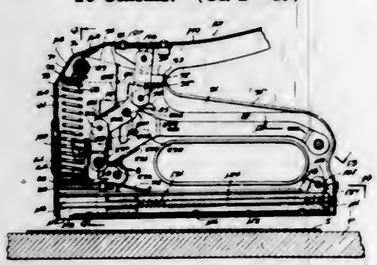
A new and distinct variety of nectarine tree characterized as to novelty by its unusually high tolerance to the causticity of lead arsenical spray and thereby allowing for relatively higher curculio worm control than other nectarine or peach tree varieties and strains, by the non-fuzz, plum-like waxy and smoother skin of its fruit, a highly flavored edible, digestable, palatable skin, the winter hardiness of the tree, the greater resistance of the fruit bud to winter kill, spring frosts and to any freeze injuries, the resistance to brown rot and storage break down, the high resistance to any nectarine or peach skin diseases, the high holding up properties of the fruit in all harvest to market operations, and the firmness, and flavor of the flesh of the fruit, substantially as described.

PATENTS

GRANTED NOVEMBER 17, 1953

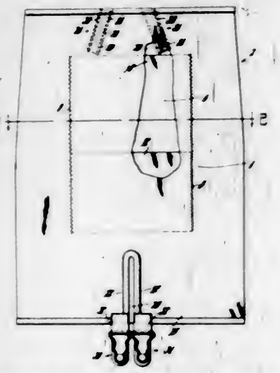
GENERAL AND MECHANICAL

2,659,083
HAND TYPE STAPLE TACKER
Frank S. Boroughs, Elmhurst, N. Y., assignor to Arrow Fastener Co., Inc., Brooklyn, N. Y., a corporation of New York
Application January 13, 1951, Serial No. 205,922
16 Claims. (Cl. 1—49)



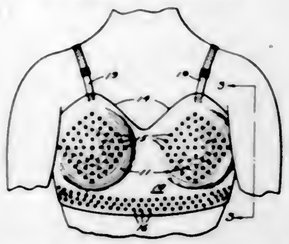
1. A stapling device comprising a main frame body, a handle movably mounted thereon, a plunger movably mounted in the body, a pawl arm pivoted to the body, a lever pivoted to the body, means to connect the lever to said handle, means to connect the lever to the pawl arm, a pawl pivoted to the pawl arm and having means to engage the plunger to move the same in one direction when pressing the handle towards the body, and means to release said pawl from the plunger.

2,659,084
BODY SUPPORTING GARMENT
Amelia Trznadel, Holyoke, Mass.
Application October 30, 1952, Serial No. 317,673
1 Claim. (Cl. 2—27)



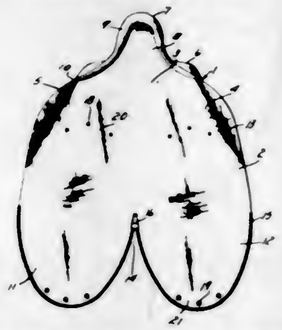
A body embracing garment comprising in combination, a vertical elongated unitary tubular main body member formed from elastic material for embracing the body of the wearer having vertically extending front and rear portions, an elongated inner panel member formed from elastic material disposed on the inner side of the front portion of the main body member and extending vertically thereof, a lower portion of said inner panel being folded upwardly between the inner side of the front portion of the body member and the inner panel to a point intermediate upper and lower ends of said panel providing a double thickness of panel at the lower portion thereof for supporting the lower abdomen, the upper edge of said panel and the line of fold of the lower portion being spaced downwardly and upwardly from upper and lower edges of the main body, vertically extending lines of stitching permanently securing opposite longitudinal sides of the panel and front portion of the main body, said front portion of the main body having a greater transverse width than said inner panel between said lines of stitching providing a transverse fullness to the front portion of the body relative to the panel and the upper edge and lower line of fold of said panel being free of the front portion of the main body for relative stretching of said panel and front portion of the main body, and said front portion of the main body provided with a slit extending upwardly from the lower edge of said body and terminating downwardly of said inner panel for permitting expansion of the lowermost portion of said main body.

2,659,085
BRASSIÈRE
Hilda M. Ericson, Youngstown, Ohio
Application August 9, 1951, Serial No. 241,079
1 Claim. (Cl. 2—42)



A brassière comprising a frontal portion formed as a single unit of deposited latex and consisting entirely of thin film-like sheet material which is soft and elastic, said frontal portion having a horizontal lower edge straight throughout its length and vertical end edges, the upper edge of the said frontal portion extending at an upward incline from upper ends of the end edges of the frontal portion and merging into intermediate portions extending at a downward incline towards each other and intersecting midway the length of the frontal portion and thereby providing upwardly tapered portions disposed in side by side relation to each other, said tapered portions and portions of the said frontal portion directly under them being projected forwardly and forming forwardly tapered elastic pockets, said pockets each having a multiplicity of perforations therein arranged in a group occupying a major portion of the area of the pocket, said frontal portion being provided below the pockets with horizontal rows of perforations extending a major portion of the length of the said frontal portion, fabric strips secured along end edges of said frontal portion and extending rearwardly therefrom, and interengaging fasteners at rear ends of said fabric strips.

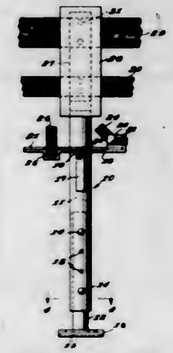
2,659,086
GARMENT
Edward F. McGrath, Kansas City, Mo.
Application September 7, 1951, Serial No. 245,550
1 Claim. (Cl. 2—88)



A garment of the character described including, a cloak portion having a back, side and front portions and a hood formed integrally with the cloak, said front portion of the cloak having openings through which the hands of the wearer may be extended, flaps formed integrally with the lower portion of the cloak, the lower end of said flaps being substantially rounded forming a substantially V-shaped space between the flaps when in extended position, the V-shaped space terminating at substantially the tail portion of the back of the cloak portion, a zipper fastener having one end secured at the point of said V-shaped space and having two complementary portions thereof extending around the outer periphery of the respective flaps, said flaps being of a length to extend around the legs and under the lower extremities of the wearer to form a closed lower portion, said closed portion being formed by bringing together the two complementary portions of the zipper fastener, one portion of a number of snap fasteners secured on the inside of the coat portion substantially midway thereof in spaced relation, and the other portion of the snap fasteners secured to the lower extremities of said flaps in spaced relation whereby the flaps may be folded inwardly and upwardly and secured to the cloak portion so that the garment may be worn as a coat.

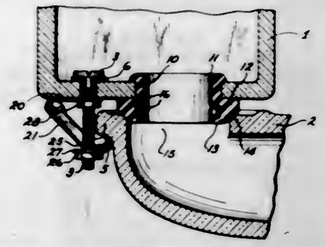
2,659,087
ADJUSTABLE STILTS
Robert P. Skaggs and Everett E. Skaggs, Phoenix, Ariz.
Application March 19, 1951, Serial No. 216,356
3 Claims. (Cl. 3—4)

1. A stilt comprising an elongated support, a rectangular flat ground-engageable shoe rigidly connected to one end of the support, a cushion pad engaged with the lower face of the shoe and having a rectangular flat ground-engaging face, an elongated foot-rest secured to the support intermediate its ends and separated from the ground-engageable shoe, a toe-engageable strap having its intermediate portion engaged with the foot-rest adjacent one end thereof, an instep-engageable strap having its intermediate portion engaged with the foot-rest adjacent the opposite end thereof, a pair of vertically spaced leg-engageable straps adjacent the opposite end



of said support and having their intermediate portions connected thereto, and an adjustable connection in the support between the ground-engageable shoe and the foot-rest.

2,659,088
BOLT CLIP FOR TOILET TANK AND BOWL COMBINATION
Harry F. Smith, Lexington, Ohio, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio, a corporation of Ohio
Application April 15, 1952, Serial No. 282,499
3 Claims. (Cl. 4—12)

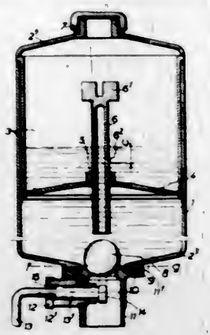


1. A close coupled water closet combination comprising a toilet bowl having a rear extension, flanges projecting outwardly from the sides and rear of said extension, a tank, and means securing said tank in assembled position on said bowl, said means comprising side bolts passing through the bottom of the tank and through the side flanges, a rear bolt, said clip including a rigid arm extending upwardly and rearwardly from the under side of said rear flange, and a flexible arm integral with and extending forwardly from the upper end of said rigid arm to engage the bottom of the tank, a rear bolt passing through the bottom of the tank past the edge of the rear flange and through the free ends of said arms, and a nut on the rear bolt to urge the flexible and rigid arms against the bottom wall of the tank and the rear flange of the bowl, respectively.

2,659,089
FLUSHING DEVICE FOR WATER CLOSETS
Claudius Griffon, Saint-Etienne, France
Application June 1, 1951, Serial No. 229,313
Claims priority, application France June 3, 1950
3 Claims. (Cl. 4—28)

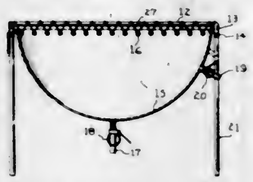
1. A flushing system for water closets and the like applications, comprising two superposed containers, a substantially vertical pipe opening into

the lower container and extending upwardly into the upper container, vertically adjustable with reference to the containers and provided with a lateral port opening into the upper container at a level depending on the vertical adjustment of the pipe to provide a direct and permanent connection between the two containers, a connection for feeding water opening into the lower



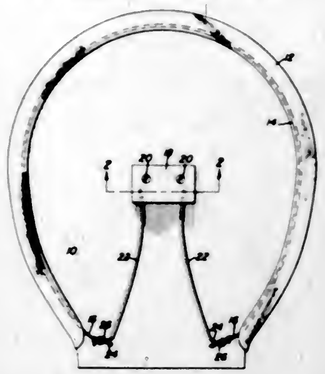
end of the lower container, an exhaust connection opening into the lower end of the lower container and an elastic ball valve adapted to close the end of the exhaust connection cooperating with the lower container for closing normally the latter and hand-operated means adapted to urge said ball valve away from its container-closing position into the mass of water filling the lower container.

2,659,090
PORTABLE BATHTUB
William C. Westfahl, Olin, Iowa
Application November 24, 1950, Serial No. 197,435
1 Claim. (Cl. 4—177)



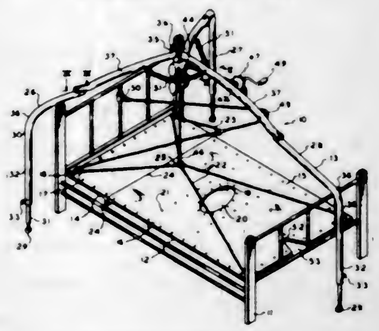
A portable bath tub for use by a patient in a sitting position comprising a rigid frame consisting of four rigid rod members of substantially equal length rigidly connected at their ends to define a square, one of the rod members being offset downwardly at its intermediate portion, respective supporting legs, means pivotally connecting said legs to the corners of said frame for rotation in the opposite side vertical planes of the frame, whereby said legs may be folded to positions adjacent to the respective rod members at the opposite sides of the frame, releasable locking means arranged to releasably lock the legs in depending supporting positions, a sheet of flexible waterproof material shaped to fit within the frame and to define receptacle therein, spaced eyelets secured in the margins of said sheet, a spiral flexible thong extending through said eyelets and around said rigid rod members, securing the margins of said sheet within the frame, a downwardly directed drain spout at the central portion of said sheet, and an outwardly directed overflow spout in a side portion of the sheet located below the offset portion of said one of the rod members.

2,659,091
COMMODE TOP COVER HOLDER
Lloyd W. Boone, San Antonio, Tex.
Application March 17, 1950, Serial No. 150,254
4 Claims. (Cl. 4—242)



2. In combination, a commode top, a cover of pliable sheet material for said commode top, a spring anchor block secured to the midportion of the underside of the commode top, straight wire spring means carried by said block, said cover having a flexible rim terminating in adjacent spaced ends, said spring means having a pair of hooks engaging said adjacent spaced ends to cause tightening of said rim and cover on said commode top.

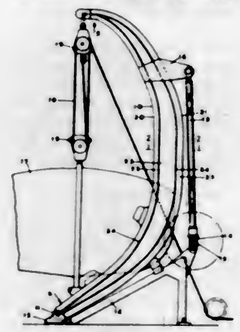
2,659,092
THREE-LEGGED CARRIER FOR INVALIDS
James Bennett Conyers, Atlanta, Ga.
Application October 24, 1950, Serial No. 191,878
5 Claims. (Cl. 5—86)



3. An apparatus of the character described, comprising: a pallet, a three-legged frame supporting said pallet and having the upper ends of its legs rigidly joined together at an apex over said pallet, lift means on said frame and connected with said pallet for raising the same substantially horizontally toward said apex, two legs of said frame having upper portions extending backward over said pallet and beyond the same from said apex and the other leg of said frame extending forward over said pallet and beyond the same from said apex, and said legs having vertical lower portions increasing the height of said frame and clearing said pallet for the latter to move vertically through an appreciable range of lift, all with small standing area demanded by said frame, said two legs being

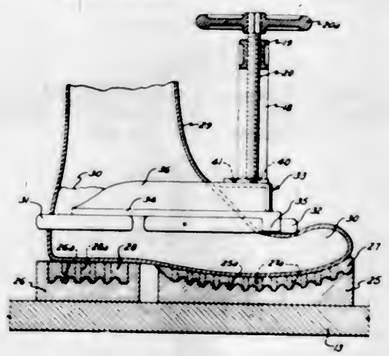
side legs of substantially the same size and proportion having their vertical portions respectively on opposite sides of said pallet and clearing the same near the back end of the pallet, and the other of said legs having its vertical portion substantially centrally in advance of the forward end of said pallet, and rollers on the lower ends of the vertical portions of said legs whereby said frame and its load may be rolled as a unit.

2,659,093
SHIP'S DAVIT
Humphrey G. Taylor, Lower Penn, near Wolverhampton, England
Application November 13, 1951, Serial No. 256,061
6 Claims. (Cl. 9—39)



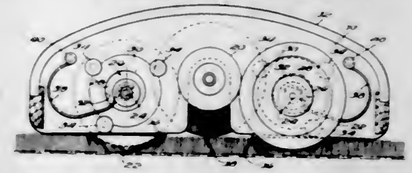
6. A davit arm of rectangular box section, comprising inner and outer members of channel section disposed with the side flanges of each member confronting each other, side plates interconnecting said channel members and having their edge portions secured to the edge portions of the opposed flanges of said two members by welded joints disposed longitudinally of the arm and spaced away from the corners thereof, the edge of each flange being bevelled and the corresponding edge of each plate having a square edge to provide a V-shaped slot for the reception of the welding metal.

2,659,094
APPARATUS FOR SECURING A RESILIENT TREAD TO THE BOTTOM SURFACE OF FLEXIBLE FOOTWEAR
George V. Walls, Littleton, Colo.
Application August 27, 1947, Serial No. 770,822
2 Claims. (Cl. 12—33.2)



1. Apparatus for securing a resilient tread on the bottom of footwear, comprising a heat conductive mold adapted to support said tread and said bottom in position on said tread, said mold having an upper surface conforming to the shape of the lower surface of said tread, a heating plate adapted to support said mold, means including a threaded clamp member for applying a uniformly distributed pressure on the upper surface of said bottom toward said mold, and said means also including a granular material partially filling said footwear, two U-shaped members encircling the lower portion of the upper of said filled footwear, a U-shaped clamp engaging both of said U-shaped members and overlying portions of both U-shaped members, said clamp having downwardly extending cleats to engage the sides of one of said U-shaped members, and a block on said U-shaped clamp having a plurality of spaced depressions adapted to engage said threaded clamp member and vary the relative pressure on said U-shaped members.

2,659,095
PLANETARY WHEEL SUSPENSION FOR CARPET SWEEPERS
John M. Himes, Milwaukee, Wis., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 14, 1949, Serial No. 121,384
7 Claims. (Cl. 15—41)



1. In a carpet sweeper having an end plate, a brush pulley and a floor wheel in contact with said pulley, means for floatably mounting the floor wheel with respect to said plate and pulley comprising a stub axle on which said wheel is rotatably carried, a mounting member for said axle having a peripheral portion, the edge of said portion being circular, one side of said portion being guided by a surface on said end plate, the other side of said portion being guided by the surface on a cover plate, said surfaces cooperating to control the lateral movement of said mounting member to hold said axle in proper horizontal alinement, and a resilient circular ring surrounding said mounting member and in alinement with said circular edge of said portion to control and limit the planar movement of said member, the center of said ring being positioned inwardly of the axis of said stub axle when said axle is in the normal position assumed while the sweeper is in operation whereby said ring and said circular edge make contact at a point outside the axis of said axle to cause said member to be urged inwardly as said plate is lowered with respect to said member in the operation of said sweeper.

2,659,096
STRAINER AND CLEANER FOR PAINT ROLLERS
Edward A. Mencfeldowski, Jr., Milwaukee, Wis.
Application March 24, 1950, Serial No. 151,647
2 Claims. (Cl. 15—121.2)

1. A device of the character described comprising, in combination, a tray for holding paint, a flat strainer, a handle at one end of the strainer, and means associated with the handle for holding a substantial portion of said strainer out of contact with said paint, said handle being pivoted to said strainer and said means comprising a

pair of straight dependent legs integrally formed with said handle and adapted to have the sides thereof bear against the bottom of the tray and against the bottom of said strainer when the handle is rotated in one direction whereby to



immerse said strainer in said paint and to have the ends thereof abut the bottom of the tray when said handle is rotated in the opposite direction whereby to lift said strainer out of said paint.

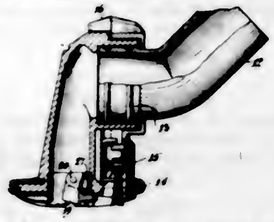
2,659,097
WINDSHIELD WIPER
Robert B. Morton, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application May 18, 1945, Serial No. 594,551
4 Claims. (Cl. 15—245)



1. A windshield wiper, including in combination, a flexible wiping element having a wiping edge, an outer portion opposite the wiping edge, means connected with the outer portion only of said wiping element for supporting said wiping element under longitudinal tension, and means connected with said outer portion only of said wiping element for adjusting the tension applied to said wiping element.

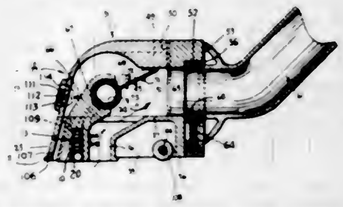
2,659,098
VACUUM CLEANER NOZZLE HAVING PIVOTED CLEANING ELEMENT
Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to Lewyt Corporation, Brooklyn, N. Y., a corporation of New York
Application June 4, 1948, Serial No. 31,189
5 Claims. (Cl. 15—365)

1. A vacuum cleaner nozzle comprising a body formed in its lower face with a longitudinal opening extending transversely to the direction of nozzle movement, a throat portion communicating with said opening and connectable to a source of suction, said opening being defined by spaced forward and rear edges substantially parallel to the forward and rear faces of said body, brackets mounted by said body at points adjacent to opposite ends of said opening, a flanged member extending from the rear edge of said opening in a forward direction, a comb element, teeth formed in one of the edges of said element and the latter extending upwardly from said teeth, pivots connecting said element with said brackets, whereby said toothed edge may rock from a point immediately adjacent the for-



ward edge of said opening to a point immediately adjacent the rear edge of the same and the upwardly extending portion of said element engaging with the upper surface and edge portion respectively of the forwardly extending flanged member to provide stops limiting the movements of said comb edge in both directions.

2,659,099
VACUUM CLEANER HEAD WITH HANDLE CONTROLLED VALVE
Thomas Wellington Ott, St. Paul, Minn.
Application August 21, 1947, Serial No. 769,835
7 Claims. (Cl. 15—416)



1. A vacuum cleaner head including a body having a nozzle inlet and an outlet, partition means dividing said inlet into two spaced inlets of different sizes, a valve adjacent said partition to selectively connect either of said two inlets to said outlet, means for holding said valve in either selected position, a handle connected to said outlet, vertically reciprcoable means connecting said handle to said body, and means connecting said vertically reciprocable means to said valve to actuate the same.

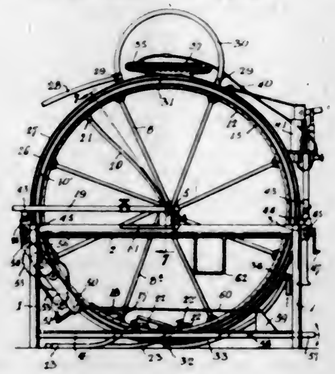
2,659,100
CASTER
Roy A. Cramer, Kansas City, Mo.
Application April 12, 1951, Serial No. 220,689
8 Claims. (Cl. 16—22)



1. In a caster, a housing having side walls, the inner walls of which are provided with aligned

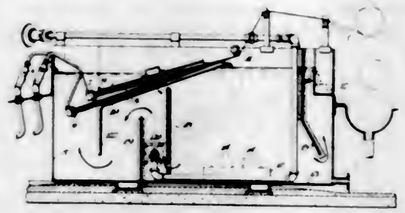
recesses forming bearings, a wheel disposed in said housing, a shaft extending through the wheel, said shaft having tapered ends engaging in said bearing recesses of the sides of said housing, said side walls being resilient for insertion of the shaft in the bearing recesses and retaining said wheel in said housing, and means in said housing engaging said shaft for receiving the thrust of said wheel when in use.

2,659,101
VULCANIZING APPARATUS
Joseph Armand Bombardier, Valcourt, Quebec, Canada
Application May 19, 1952, Serial No. 288,669
7 Claims. (Cl. 18—6)



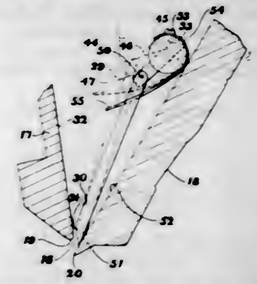
1. A vulcanizing apparatus comprising a pair of wheel-like units on a common axis, each unit including a rim and a steam jacket within the rim, an outer jacket concentric with said rims, and means for moving the outer jacket from one rim to the other.

2,659,102
SPINNING VISCOSE RAYON
Morgan J. Rarick, Madison, Tenn., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application March 14, 1951, Serial No. 215,451
4 Claims. (Cl. 18—8)



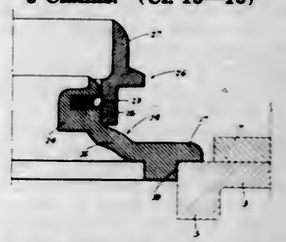
2. Apparatus for spinning viscose rayon tow which comprises a tank for coagulating bath, means including a multiplicity of spinneret orifices for continuously extruding viscose filaments into the bath near one end of the tank, a duct extending at a gradual upward inclination from near said orifices and ending above the bath level at said orifices, means for conducting the filaments from said orifices through said duct and out of the bath, said duct closely surrounding the filaments so that the motion of the filaments produces a concurrent flow of bath through the duct at a velocity of from 25% to 75% of the filament velocity, said duct being so located within the tank that the dicharged bath recirculates by gravity through the tank back to the vicinity of said orifices, and means for aerating the bath discharged from the duct before the bath has recirculated to the vicinity of said orifices.

2,659,103
KNEE ACTION DOPE HOPPER FINGER
Ernest R. Merritt, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application August 23, 1951, Serial No. 242,327
10 Claims. (Cl. 18—15)



1. In a sheet-forming device, the combination with a hopper formed with inclined sides terminating in a discharge slot for feeding a sheet-forming solution from said hopper, of a control finger positioned in said hopper adjacent an end only thereof, said finger having a lower end portion thereof positioned adjacent said slot and in engagement with one of said sides only adjacent said slot and cooperating with the other of said sides to adjust the effective end width of said slot to control the edge thickness of said sheet, the balance of said finger being spaced from said one side means to adjust said finger toward and away from said slot and to maintain said lower position in positive engagement with the said one side, and a "knee-action" connection between the upper end of said finger and said adjusting means to rock said upper end to move said lower end along said one side and relative to said other side to adjust said slot.

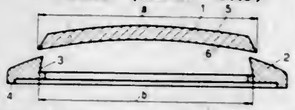
2,659,104
TIRE LOCATING RING ASSEMBLY FOR RETREADING MOLDS
Edwin A. Glynn, Lodi, Calif., assignor to Super Mold Corporation of California, Lodi, Calif., a corporation of California
Application May 13, 1950, Serial No. 161,854
5 Claims. (Cl. 18—18)



1. A tire locating device for a tire retreading mold which includes a body having separable

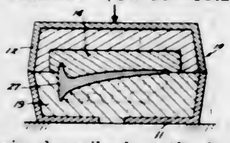
annular body sections and a matrix in the body, said device comprising a pair of tire bead engaging rings disposed in the mold concentric to the axis thereof and in axially spaced relation radially inwardly of but symmetrical to the matrix, the rings having annular tire bead engaging feet projecting toward each other, means securing the rings to corresponding body sections, and attachment rings adapted to be secured in matching relation to the feet of said first named rings; the attachment rings each having an annular tire bead engaging foot disposed laterally inwardly of the foot of the corresponding one of said first named rings.

2,659,105
PROCESS FOR TEMPERING CURVED GLASSES OF ORGANIC MATERIALS
Paul Halbig and Carlo Taddei, Fribourg, Switzerland
Application July 20, 1950, Serial No. 175,006
Claims priority, application Switzerland July 20, 1949
1 Claim. (Cl. 18—47.5)



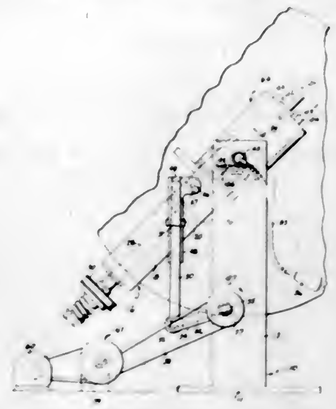
A process of tempering a curved transparent sheetlike organic material destined for ultimate use in curved form at normal temperatures, including, in combination, the steps of pressing opposed marginal portions of the material toward each other to increase the curvature of the material until the convex surface of the material becomes flawed, and of heating the convex surface of the material until the convex surface becomes flawless.

2,659,106
METHOD OF MAKING DENTURES
Albert G. Leicht, Cincinnati, Ohio
Application February 8, 1950, Serial No. 143,046
4 Claims. (Cl. 18—55.1)



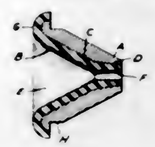
1. The herein described method of forming an all-plastic, one-piece denture in a two-part dental flask said method comprising first forming a denture model having a base with the proper teeth secured to the base, investing the denture model in the investment material in one flask part, removing the base and the teeth of the denture model from the said flask part to provide respectively, in the investment material of said flask, a denture base impression and a teeth recess that opens into the impression, then inserting in the recess a predetermined quantity of uncured plastic material, placing a resilient follower upon said material in the recess, applying the other flask part and partially curing said material by applying pressure to the assembled flask, then separating the flask parts, removing the partially cured teeth from the recess and trimming the gum line therefor, returning said teeth to the recess, inserting uncured plastic material in the base impression in contact with the partially cured material in the recess, applying the other flask part, and curing the contents of the assembled flask parts by the application of heat and pressure.

2,659,107
METHOD OF MAKING HOLLOW PLASTIC ARTICLES
George W. De Bell, Stamford, Conn.
Application November 14, 1947, Serial No. 785,972
6 Claims. (Cl. 18—58.3)



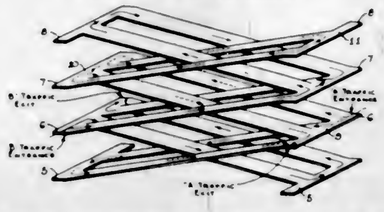
1. A method of molding a hollow article which comprises placing a measured charge of a liquid plastic molding material in the form of a puddle in a mold cavity and substantially the whole of which material is hardenable and enters into the molded article, and during setting of the material distributing it progressively from the puddle over the surface of the cavity as it solidifies in overlapping spirals, by simultaneously turning the mold about different axes at substantially right angles to each other, one of said axes being a stationary axis and the other axis being turned a partial revolution first in one direction and then a partial revolution in the opposite direction about the stationary axis in the plane of the second axis, and at relatively low speeds such that centrifugal force on the material in the puddle is less than the force of gravity whereby the puddle is maintained at the lower part of the cavity during the molding and distributing operation.

2,659,108
TRUMPET FOR USE IN TEXTILE INDUSTRY
John J. Bradley, Grosse Pointe, Mich., assignor to The Gear Grinding Machine Company, Detroit, Mich., a corporation of Michigan
Application October 24, 1949, Serial No. 123,150
2 Claims. (Cl. 19—157)



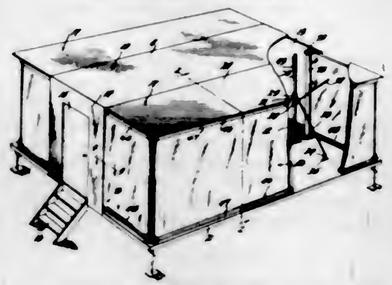
1. A textile trumpet comprising a stress carrying body portion of generally trumpet form for permanent installation in a textile machine and an exchangeable liner formed of die-fashioned plastic material, said liner being of exactly predetermined internal and external form and dimensions and fitting within said body portion to be frictionally held thereto also completely covering the inner face of said body portion and extending over the large end thereof.

2,659,109
ALL RAMP GARAGE
Philip H. Burn, Forest Hills, Alexander Graham, New York, and Allan G. Lorimer, Douglaston, N. Y.
Application April 13, 1946, Serial No. 661,964
1 Claim. (Cl. 20—1.13)



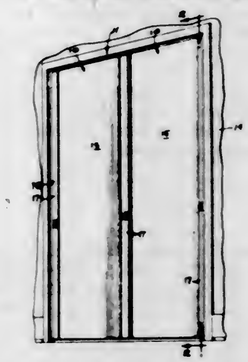
In a garage structure, a plurality of substantially horizontal superposed landings at one side of the structure, a second plurality of substantially horizontal superposed landings at the opposite side of the structure and in substantially the same planes as said first-mentioned plurality of landings, a pair of spaced, parallel, inclined ramps connecting each of said landings at one side of the structure except the uppermost ones with a landing at the opposite side of the structure and in the next higher plane, a pair of spaced, parallel, inclined ramps connecting each of said landings at said opposite side except the uppermost ones with a landing at the opposite side of the structure and in the next higher plane, each of said aforementioned pairs of ramps being interfitted with an oppositely inclined pair, whereby each landing, with the exceptions of the lowermost and uppermost, is provided with a pair of lanes for ascending traffic and a pair of lanes for descending traffic, said ramps being substantially equally spaced in a horizontal direction from the ramp next adjacent thereto, at least one margin of each ramp having a free zigzag edge defined by lines meeting at angles and providing parking spaces for vehicles, and a series of vertical posts secured to said edge at the apices of such angles.

2,659,110
AIR WALL BUILDING STRUCTURE
Robert P. Carroll, Kent, Ohio, assignor to Davey Compressor Company, Kent, Ohio, a corporation of Ohio
Application April 25, 1951, Serial No. 222,905
22 Claims. (Cl. 20—2)



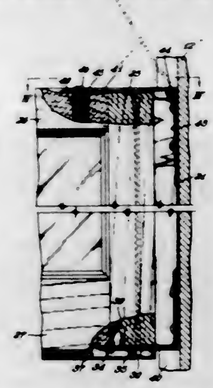
1. A building structure comprising upper and lower spaced supports forming parallel guideways, and an inflatable wall having opposite impervious surface layers and flexible connecting elements therebetween to limit movement of said layers away from each other, the edges of said layers being sealed, the upper and lower edges of said wall being movable along said guideways, and a valve for the introduction of fluid pressure into said wall.

2,659,111
FREELY TRANSLATABLE SLIDING DOOR
Benjamin J. Triller, Dubuque, Iowa, assignor to Farley & Loetscher Manufacturing Company, Dubuque, Iowa, a corporation of Iowa
Application August 19, 1952, Serial No. 305,183
5 Claims. (Cl. 20—35)



4. A rectangular sliding door comprising, in combination, a skeleton frame including two spaced parallel side stiles, two end rails joining corresponding ends of said respective stiles, a central cross rail connected in spanning relation to the medial portions of said respective stiles, said stiles each defining an inwardly open rabbet extending longitudinally therealong, a rectangular body panel having opposite side edges slidably received in said respective stile rabbets, means slidably attaching opposite ends of said panel to said respective end rails, and anchoring means securely fixing the medial portion of said panel to said cross rail to support said panel therefrom for free expansion movement relative to said stiles and said end rails.

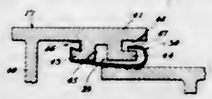
2,659,112
DETACHABLE WINDOW STRUCTURE
Alfonse F. Tornabene, Chicago, Ill.
Application July 21, 1951, Serial No. 237,931
6 Claims. (Cl. 20—49)



1. A detachable window frame structure comprising facing jambs having a plurality of adjacent parallel guideways extending therealong,

window sashes guided in said guideways, means guiding said sashes for movement along said guideways for ready detachment therefrom comprising a channel member for each sash, having its web slidable along the jamb and having two legs of unequal length, each having an inturned end, the inturned end of the longer leg having interengagement with the window sash and the inturned end of the shorter leg having abutting engagement with the outer side of a rail of the sash, and means locking the sash to said channel member comprising an angle secured to the web of said channel and extending inwardly therefrom and locating said sash on said channel and having interengagement with the bottom of said sash on its horizontal leg, a locking plate pivoted to the top of said channel and movable into engagement with the top of the sash, and means detachably locking said plate to the top of the sash.

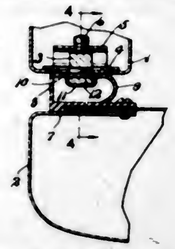
2,659,113
WINDOW
Robert L. Klein, Rochelle Park, N. J., and Carmine C. J. Maffei and Julius Kirschstein, Brooklyn, N. Y., assignors to Windalume Corporation, West New York, N. J., a corporation of New Jersey
Application June 16, 1948, Serial No. 33,384
11 Claims. (Cl. 20—69)



1. In a combination resilient sash guide and weather-strip structure for sliding sashes, a window frame for accommodating the sashes, said sash guide and weather-strip structure comprising weather-strips and weather-strip anchoring means, said weather-strip anchoring means forming integral parts of and extending from said frame and comprising short and longer parallel, oppositely directed lips, recesses spacing the lips from the frame, said weather-strips comprising resilient elements having at their opposite edges small and larger channel formations connected by a substantially straight web, and wherein the small channel formation engages the short lip of said anchoring means and is adapted to be relatively stationary, while the larger channel formation compasses and cooperates with the longer lip of said anchoring means and is movable in respect thereto and is adapted, together with said web, to yieldably engage and guide the outer sash faces and to form a seal for the latter.

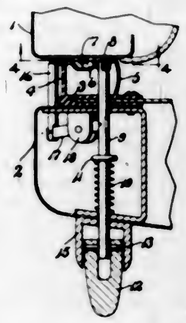
2,659,114
MAGNETIC DOOR SEAL
Lloyd L. Anderson and Nathan S. Waring, Grand Rapids, and Anton W. Korb, Grandville, Mich., assignor to Jervis Corporation, a corporation of Michigan
Application March 23, 1950, Serial No. 151,462
1 Claim. (Cl. 20—69)

In a structure as described, a casing having an entrance opening at its front side said casing having walls surrounding the opening and front faces to said walls having spaced openings therein, a plate secured at the rear side of said front face at each opening therein, said plate having an opening at its intermediate portion, a magnet located at the inner side of each of the plates having spaced poles extending through the opening in its associated plate and bearing against said associated plate, a member secured to each of said plates spaced therefrom, between which and each the said plates the magnet is located,



and a screw threading through each of said members bearing against its associated magnet to secure it in place.

2,659,115
MAGNETIC DOOR SEAL
Lloyd L. Anderson and Nathan S. Waring, Grand Rapids, and Anton W. Korb, Grandville, Mich., assignors to Jervis Corporation, a corporation of Michigan
Application March 27, 1950, Serial No. 152,244
7 Claims. (Cl. 20—69)



1. In a structure as described, a casing having an entrance opening, a door hingedly mounted on said casing at one edge of the door for closing said opening, an elongated gasket secured at the inner side of the door having inner and outer spaced walls and spaced sides connecting said walls and providing a gasket hollow lengthwise thereof, one of said walls being secured to the door, magnetic means carried by the other of said walls to exert magnetic attraction upon the casing when the door is closed, a handle pivotally mounted at the outer side of the door, a rod operably associated with said handle, the distance from the association of said rod to the pivot of the handle being appreciably less than the distance from said pivot to the end of the lever farthest away from said pivot, and means associated with the inwardly extending portion of said rod for forcing the door outwardly upon outward operation of said handle to break the magnetic attraction of the magnets with said casing.

2,659,116
MAGNETIC DOOR SEAL
Anton W. Korb, Grandville, Mich., assignor to Jervis Corporation, a corporation of Michigan
Application July 17, 1951, Serial No. 237,259
5 Claims. (Cl. 20—69)

1. The combination comprising, a gasket adapted to effect a seal beween a door member

and a casing member along a line extending around an opening closable by said door, said gasket having a longitudinally extending portion attached to one of said members, magnetically attractable means arranged to abut another longitudinally extending portion of said gasket to effect said seal when said door is closed, and longitudinally flexible magnetically attractable means arranged within said gasket adjacent said other longitudinally extending portion thereof, one of said means comprising a substantially con-



tinuous formation of nonmagnetized but magnetically attractable material, the other of said means comprising a plurality of permanent magnets spaced apart longitudinally with respect to said line of seal and a plurality of nonmagnetized but magnetically attractable elements arranged between and substantially in contact with said magnets, each of said magnets being arranged with its poles spaced longitudinally of said line of seal, and said magnets being so oriented that the opposed ends of each of said elements face like poles of adjoining magnets.

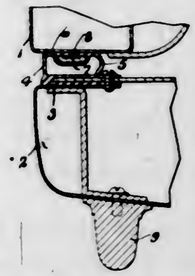
2,659,117
BEADING STRIP
Louis Spraragen, Fairfield, Conn., assignor to Bridgeport Fabrics, Inc., Bridgeport, Conn., a corporation of Connecticut
Application October 20, 1951, Serial No. 252,277
6 Claims. (Cl. 20—69)



1. A beading strip comprising a flexible bead of compressible material; an attaching strip having one edge secured to the bead with the strip projecting therefrom, said strip having a metallic portion therein providing a longitudinally extending portion intermediate its edges projecting from the plane of the strip and cooperating with the bead to form a flange-receiving channel for mounting the beading strip; and a cover enclosing the bead and attaching strip.

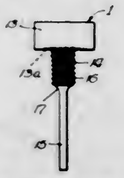
2,659,118
MAGNETIC DOOR SEAL
Lloyd L. Anderson and Nathan S. Waring, Grand Rapids, and Anton W. Korb, Grandville, Mich., assignors to Jervis Corporation, a corporation of Michigan
Continuation of application Serial No. 150,748, March 20, 1950. This application June 26, 1952, Serial No. 295,608
9 Claims. (Cl. 20—69)

1. A gasket adapted to be used for sealing a hinged door adjacent its edges against a casing surrounding an entrance opening closed by the door, said gasket comprising an elongated member having an attaching side, spaced generally parallel sides extending therefrom substantially at right angles, one of the last-recited sides being definitely wider than the other, and an additional side integral with and connecting said narrower and wider spaced sides, magnets within the gasket at the inner side of said additional side of the gasket, and means to hold said magnets against change of position with respect to the gasket, said gasket structure and said specified mounting thereof providing a seal which is pulled loose—first at one side edge of the gasket—from the surface against which said gasket sealingly abuts



and which seal is thereafter progressively separated from said surface so that the initial force required is only that needed to break the magnetic attraction over a fraction of the effective area of the magnets, the gasket being peeled off of said surface, wherefrom a relatively large magnetic force may be used to maintain the seal without excessive force being necessary to break said seal.

2,659,119
WEAR RESISTING INSERT FOR CORE MAKING APPARATUS
Edwin F. Peterson, Kewanee, Ill.
Application June 15, 1950, Serial No. 168,254
6 Claims. (Cl. 22—13)

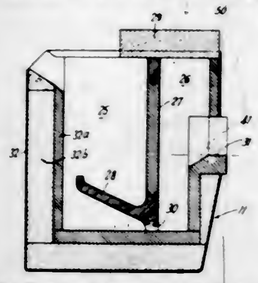


1. In combination with a wall of a core box, a resilient plug adapted to form a portion of said wall, said plug comprising a head, a shank, and a pigtail, said core box wall having a socket shaped to snugly receive said head and shank, said shank having a ridged surface and said shank receiving portion of said wall socket having corresponding depressions to receive the shank ridges therein, and said pigtail providing means to draw said head and shank into nested relation within said socket in the core box wall with the shank ridges disposed in interlocking relation with the depressions in said shank receiving portion of said wall socket.

2,659,120
APPARATUS FOR SEPARATING SLAG FROM A SLAG CONTAINING MOLTEN METAL
Isaac Harter, Jr., and Temple W. Ratcliffe, Beaver, Pa., assignors, by mesne assignments, to The Babcock & Wilcox Company, Jersey City, N. J., a corporation of New Jersey
Application February 2, 1951, Serial No. 209,164
3 Claims. (Cl. 22—79)

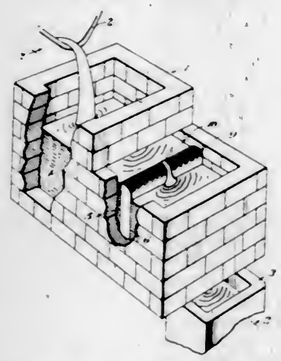
1. A tun dish comprising refractory walls defining a vessel having a discharge weir in an end

wall thereof, at least one transverse partition spaced from said weir and extending across said vessel and having at least one port therethrough positioned adjacent the bottom of said vessel, and an inclined baffle merging into the side of said partition remote from said weir and above said



port, said baffle projecting away from said partition at an acuate angle to the portion of the partition above the baffle, said baffle extending far enough toward the wall of the vessel opposite the wall having the discharge weir to intercept and deflect upwardly the stream of molten metal entering the tun dish.

2,659,121
POURING BOX FOR CONTINUOUS CASTING MACHINES
Rufus Easton, Schenectady, and Thomas Yates Wilson, Albany, N. Y., assignors to Continuous Metalcast Co., Inc., Wilmington, Del., a corporation of Delaware
Application June 5, 1952, Serial No. 291,874
3 Claims. (Cl. 22—79)

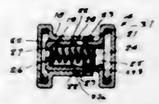


1. A pouring box for controlling the flow of molten metal to a casting mold, comprising, a refractory container unit having three communicating reservoirs therein, said container unit having no moving parts, one of said reservoirs being a receiving reservoir into which metal is poured, said reservoir being separated from the second reservoir by a refractory wall having an aperture in the bottom thereof to provide communication between said reservoirs, said second reservoir being separated from the third reservoir by a dam having a lip over which metal flows from the second reservoir into the third, and said third reservoir having a pouring aperture in the bottom thereof the flow of metal from one reservoir to another being solely due to differences in metal level which may exist in said reservoirs at any time as a result of metal being poured into said first reservoir, and the rate of flow of metal from said third reservoir being determined solely by the metal level existing in said third reservoir.

ERRATUM

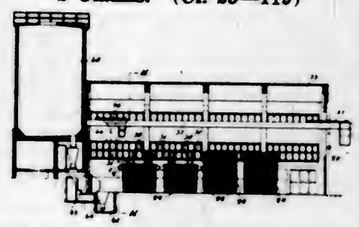
For Class 22—188 see:
Patent No. 2,659,654

2,659,122
FASTENING DEVICE
John Francis Golubics, Los Angeles, Calif.
Application March 10, 1950, Serial No. 148,949
2 Claims. (Cl. 24—221)



1. A fastening device, a first sleeve and a second sleeve, said sleeves being in slidable telescopic union with one another and having a closed end in each thereof, said first sleeve being formed with bayonet slots beginning in the lip of the open end of said sleeve and being terminal inwardly thereof, said second sleeve being formed with slots in its sides intermediately of its ends, a cradle in said second sleeve having laterally disposed lugs adapted to extend through the slots therein and into said bayonet slots and in pressure contact with the closed end of said bayonet slots, and a spring seated in said cradle and confined therein against displacement.

2,659,123
APPARATUS FOR MAKING CONCRETE ELEMENTS
Hans Peter Georgii, Stockholm, and Nils Oscar Helge Engström, Bromma, Stockholm, Sweden, assignors to Aktiebolaget Skanska Cementgjuteriet, Stockholm, Sweden, a company under the laws of Sweden
Application November 16, 1949, Serial No. 127,722
2 Claims. (Cl. 25—119)



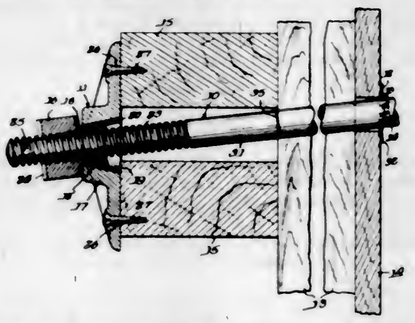
1. Apparatus for casting concrete comprising, in combination, a form having a plurality of longitudinal walls rigidly connected at their respective ends to a pair of cross members and arranged adjacent to each other so as to provide a plurality of spaces between said walls, said longitudinal walls each comprising a pair of spaced metal plate members welded at their upper edges to a T-bar, with the top part of the T-bar extending laterally beyond the plate members at their upper edges, and at their lower edges to an elongated spacer member located therebetween, the said plate members being spaced apart at their upper edges by a distance which is slightly greater than the distance by which they are spaced apart at their lower edges so as to provide a taper in the wall which facilitates removal from the concrete cast against it, and a plurality of transverse walls mounted respectively in the spaces between said longitudinal walls and being rigidly connected to said longitudinal walls, said transverse walls each comprising a pair of spaced, metal plate members welded at their upper and lower edges to spacer bars located therebetween and being spaced at their upper edges by a distance which is slightly greater than the distance by which their lower edges are spaced so as to provide a taper permitting easy removal from the concrete, whereby said form provides a single unitary structure adapted to be lifted as one piece from concrete cast in the spaces defined by said longitudinal and transverse walls and said cross members; and clamping means located adjacent the upper ends of the transverse walls for rigidly connecting said transverse walls to portions of the T-bar which extend beyond the plate members of the longitudinal walls.

2,659,124
TEMPORARY CONCRETE FORM FOR USE WITH PLUMBING INSTALLATIONS
Robert E. Henry, Pittsburgh, Pa.
Application February 23, 1952, Serial No. 273,097
1 Claim. (Cl. 25—128)



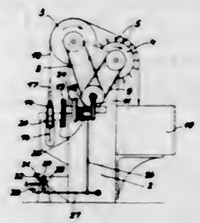
A temporary form of use in maintaining an opening through a floor during the operation of placing flooring material of concrete or the like, which comprises a plurality of layers of fibrous sheets connected in unitary relation at one end, and of such successively shorter lengths as to form a plurality of concentric tubes when bent to cylindrical shape about their transverse axes and with the longest sheet outermost, the ends of the sheets being held flush with one another at said end when the sheets are flat and before bending to cylindrical shape.

2,659,125
CLAMP BRACKET
Chester I. Williams, Grand Rapids, Mich.
Application June 22, 1950, Serial No. 169,731
3 Claims. (Cl. 25—131)



1. The combination with a concrete form construction including sheathing and studding, and waler members adapted to be positioned transversely with respect to the studding on opposite sides of the concrete form, of a clamping device including detachable waler rods having oppositely spaced grooves contiguous to the inner face of the sheathing and adapted to extend between the waler members and through the sheathing on opposite sides of the concrete form for securing the opposite sides of the concrete form together, said clamping device comprising an adjusting nut comprising a cylindrical shaped collar having an annular countersunk portion and a clamping bracket having a conically shaped opening, said annular countersunk portion deformed outwardly into the opening flexibly connecting them together for each waler rod of the clamping device, disk-like spacer means provided with an opening larger than the diameter of said waler rod and including flexible lugs located in said opening and converging outwardly from the plane of the disk-like spacer means and of a shape complemental to the shape of the grooves in the rod, and said disk-like spacer means flexibly mounted by the aforesaid lugs in the grooves formed on each waler rod contiguous to the inner face of the sheathing on opposite sides of the concrete form, whereby said disk-like spacer means is adapted to be detached from the grooves in the waler rod by a slight turn thereof after concrete poured within the concrete form has been allowed to set.

2,659,126
MACHINE FOR UNWINDING REMNANTS OF YARN FROM BOBBINS
Heinz Balken, Wipperfurth (Rheinland), Leiersmuhle, Germany
Application August 24, 1951, Serial No. 243,456
Claims priority, application Germany September 9, 1950
5 Claims. (Cl. 28—19)

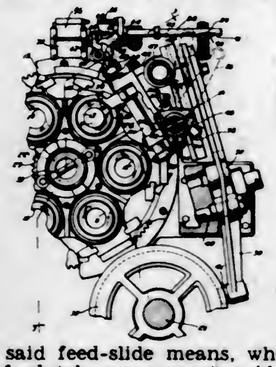


1. A device for the removal of yarn remnants from weaving bobbins comprising a support for the yarn carrying bobbins, a first roller adjacently located to said support to unwind said yarn remnants from said bobbins and a second guide roller adjacently located to said first roller to withdraw said yarn remnants from said first roller for the conduct of the same into a collector.

2,659,127
STOCK FEED MECHANISM FOR BAR MACHINES
Arthur H. Jobert, New Britain, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application April 22, 1948, Serial No. 22,655
9 Claims. (Cl. 29—62)

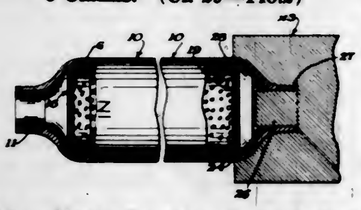
1. In an automatic bar machine or the like, a frame, stock-chucking means, stock-feeding means including longitudinally reciprocable feed-slide means for feeding stock to said chucking means, longitudinally acting resilient means urging said feed slide means in a stock-feeding direction, cam means in driving relation with said feed-slide means against the action of said resilient means for retracting the same, holding means including a part engaging said frame and including one-way-engaging clutch means effectively engaging said feed-slide means against the

action of said resilient means and independently of the instantaneous position of said cam means, manually operable means controlling the operation of said clutch means, and means including a cam effective upon a displacement of said manually operable means and before engagement of said clutch means to effect an incremental with-



drawal of said feed-slide means, whereby in a position of clutch-engagement said feed-slide means may be held in an incrementally withdrawn position so that upon a return of said manually operable means to a position disengaging said clutch means said feed-slide means may be resiliently fed said incremental distance.

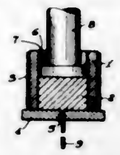
2,659,128
METHOD OF MAKING DEHYDRATORS
John D. Baldwin, Jr., Highland Heights, and John E. Szitar, Cleveland Heights, Ohio, assignors to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application January 21, 1950, Serial No. 139,944
3 Claims. (Cl. 29—148.2)



1. The method of making a dehydrator comprising the steps of fastening a screen in a container having an open mouth, placing a dehydrating agent in the container and against the screen, placing a second screen having a peripheral flange in the mouth of said container and against said dehydrating material, and spinning the mouth of said container around and axially outwardly of said screen to form a neck thereon with the metal at the larger diameter zone of the neck deforming the flange on said second screen to move the screen relative to the container causing it to press against said dehydrating material.

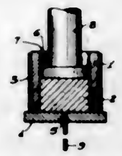
2,659,129
COMPOSITE ALLOY
Thomas E. Leontis and Robert S. Busk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application August 16, 1950, Serial No. 179,772
8 Claims. (Cl. 29—182.2)

6. A composite metal body comprising two particulate metals one of the metals being a magnesium-base magnesium-manganese alloy, the other comprising at least one magnesium-soluble metal including aluminum, the magnesium-soluble metal comprising between 0.1 and 12 per cent by weight of the composite body and the aluminum



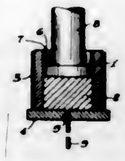
being associated with up to but not more than 4 times its weight of magnesium, the particles of each metal being elongated, oriented in the same direction, and welded together into an integral solid.

2,659,130
COMPOSITE ALLOY
Thomas E. Leontis and Robert S. Busk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application August 16, 1950, Serial No. 179,773
4 Claims. (Cl. 29—182.2)



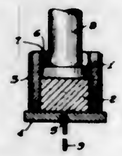
4. A composite metal body consisting of at least two particulate alloys one of the two alloys being a binary magnesium-base magnesium-manganese alloy containing from about 0.5 to 2.2 per cent of manganese and up to 0.5 per cent of calcium, the balance being magnesium, the other being a magnesium-base magnesium-aluminum-zinc alloy containing from 2 to 10 per cent of aluminum, 0.5 to 4 per cent of zinc, and up to about 1.4 per cent of manganese, the balance being magnesium, the two particulate alloys being in the proportion of about 40 to 90 parts of the said binary alloy per 100 parts of the composite metal body and the particles of each of the said two alloys being elongated, orientated in the same direction, and welded into an integral solid.

2,659,131
COMPOSITE ALLOY
Thomas E. Leonitis and Robert S. Busk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application August 16, 1950, Serial No. 179,774
10 Claims. (Cl. 29—182.2)



10. A composite metal body comprising at least two particulated metals, one of the metals consisting of a magnesium-base magnesium-zirconium alloy, the other comprising aluminum, the particles of each of the said two metals being alongated, oriented in the same direction, and welded together into an integral solid, said solid comprising by weight at least 0.5 per cent of aluminum, at least 0.095 per cent of zirconium, the amount of the aluminum plus the firconium not exceeding 6.1 per cent, and up to 18 per cent of non-magnesium metal, exclusive of the aluminum and zirconium, the balance being magnesium.

2,659,132
COMPOSITE ALLOY
Thomas E. Leontis and Robert S. Busk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application August 16, 1950, Serial No. 179,775
8 Claims. (Cl. 29—182.2)



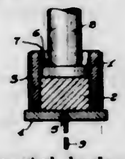
5. A composite metal body consisting of two particulated metals one of the metals being a magnesium-base alloy containing from 0.1 to 0.8 per cent of zirconium and the balance being at least 88 per cent of magnesium, the other being elementary silver in amount between 0.1 and 6 per cent by weight of the metal body, the particles of each of the metals being elongated, orientated in the same direction, and welded together into an integral solid.

2,659,133
COMPOSITE ALLOY
Thomas E. Leontis and Robert S. Busk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application August 16, 1950, Serial No. 179,776
7 Claims. (Cl. 29—182.2)



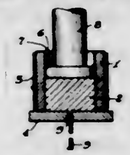
7. A composite metal body consisting of a plurality of metals in particulate form one of the metals being a magnesium-soluble metal selected from the group consisting of silver, cerium, manganese, lead, tin, and zinc in amount up to 1 per cent of the weight of the body, another of the metals being aluminum in amount between 0.1 and 12 per cent, and the balance of the metals being a magnesium-base alloy containing 0.1 to 12 per cent of aluminum, up to 3 per cent of zinc, up to 2 per cent of manganese, up to 0.5 per cent of calcium, the balance of the magnesium-base alloy being magnesium, the particles of each of the said metals being elongated, orientated in the same direction, and all welded together into an integral solid.

2,659,134
COMPOSITE ALLOY
Thomas E. Leontis and Robert S. Busk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application August 16, 1950, Serial No. 179,777
2 Claims. (Cl. 29—182.2)



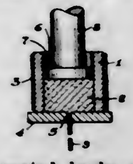
2. A composite metal body consisting of two particulated metals one consisting of aluminum in amount from 0.1 to 6 per cent of the weight of the body, the other forming the balance of the body and consisting of a magnesium-base alloy containing 0.5 to 8 per cent of zinc, up to 2.5 per cent of manganese, up to 1 per cent of calcium, up to 0.5 per cent of copper, the balance of the alloy being magnesium, the particles being elongated, oriented in the same direction, and welded together into an integral solid.

2,659,135
COMPOSITE ALLOY
Thomas E. Leontis and Robert S. Busk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application August 16, 1950, Serial No. 179,779
8 Claims. (Cl. 29—182.2)



8. A composite metal body comprising a particulate binary magnesium-base magnesium-manganese alloy containing from 0.5 to 2.5 per cent of manganese the balance of the alloy being magnesium and at least two particulate metals selected from the group consisting of cadmium, lead, manganese, tin, silver, and zinc, in amount between 1 and 9 per cent of the weight of the said body the balance of the said body being the said binary alloy, the particles of each metal being elongated, oriented in the same direction and welded together into an integral solid.

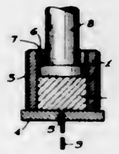
2,659,136
COMPOSITE ALLOY
Thomas E. Leontis and Robert S. Busk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application August 16, 1950, Serial No. 179,780
3 Claims. (Cl. 29—182.2)



3. A composite metal body consisting of two particulated metals one of the metals being a

magnesium-base magnesium-zinc-manganese alloy containing from 0.5 to 8 per cent of zinc, 0.5 to 2.5 per cent of manganese, the balance being magnesium, the other comprising tin in amount from 0.1 to 8 per cent of the weight of the body, particles of each particulated metal being elongated, oriented in the same direction and welded together into an integral solid.

2,659,137
COMPOSITE ALLOY
Thomas E. Leontis and Robert S. Busk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application August 16, 1950, Serial No. 179,778
6 Claims. (Cl. 29—192)



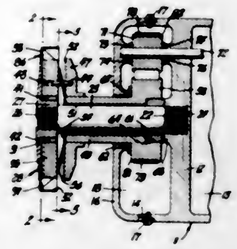
1. The method of making a solid composite high strength metal body comprising a magnesium-base alloy which consists in forming a mixture of particulated metals from 0.1 to 6 per cent by weight of said mixture being a magnesium-soluble metal selected from the group consisting of aluminum and zinc, the balance of said mixture being a magnesium-base alloy containing from 0.5 to 8 per cent of tin, the balance of the said alloy being magnesium, and die expressing the mixture at a temperature between 600° and 800° F.

2,659,138
METHOD OF BRAZING AND BRAZING ALLOY
Philip T. Stroup, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application December 10, 1948, Serial No. 64,699
7 Claims. (Cl. 29—359)

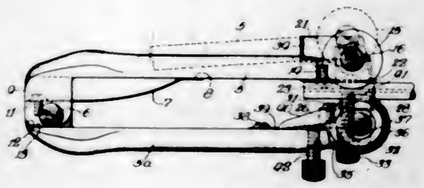
5. A brazing alloy composed essentially of silicon, germanium and aluminum and containing not more than about 0.5 per cent by weight of other metal or metalloid, the percentage of silicon by weight being about equal to 11.5 minus X and the percentage of germanium by weight being about equal to 4.5X where X represents a number not less than about 1 nor greater than about 10.5.

2,659,139
ELECTRICAL DRY SHAVER
Gordon W. Davison, Port Colborne, Ontario, Canada
Application May 17, 1951, Serial No. 226,833
2 Claims. (Cl. 30—41.5)

1. In a shaver of the character described, a housing, a stationary stem extending outwardly from said housing, a stationary head removably secured on the outer end of said stem, said head comprising a thin-walled circular disk-like base having an integral, thin-walled peripheral, skirt-like guard extending toward said housing to provide an open, substantially cylindrical pocket opening toward and spaced from said housing, said thin-walled base and guard being jointly provided with a plurality of closely spaced slots extending across the adjoining portions of said base and said guard, a driving sleeve concentric with said stem extending into said housing and being rotatably mounted therein, means within said housing for rotating said sleeve, a bearing within said head disposed concentrically with respect to said stem, a cutter adapted to rotate on said bearing within said pocket, means operatively connecting said sleeve and said cutter and adapted to rotate said cutter with said sleeve, a plurality of cutting blades on the periphery of said cutter, said blades being adapted to engage said head in cutting relation with the portions of said slots in said base, and means rotatable with said sleeve and said cutter resiliently holding said cutter in said head.

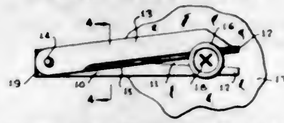


2,659,140
WIRE STRIPPER
Edward D. Davison, Waukegan, Ill., assignor of one-half to Thomas Polansek, Waukegan, Ill.
Application April 30, 1949, Serial No. 90,575
3 Claims. (Cl. 30—91)



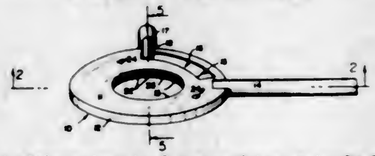
1. In a tool of the character described, a pair of relatively rigid hand-grip members pivotally connected together adjacent to one end of each for relative pivotal movements of their opposite ends toward and from one another, a circumferentially grooved roller rotatably mounted on the said other end of one member on an axis extending transversely of the path of movement of said other ends toward and from one another, a pair of rollers rotatably mounted adjacent to but spaced from one another on said other end of the other member on an axis substantially parallel to the axis of rotation of the first said roller, said rollers being cooperative with one another to roll along a sheathed wire therebetween with said grooved roller on one member and said pair of rollers on the other member being free to rotate and to receive and grip therebetween the sheathed wire but permit said tool to be moved relative to and longitudinally of said wire upon a pulling effort causing rotation of said rollers, a spring-mounted sheath-cutting blade secured to said other member and disposed between said pair of rollers, and means for moving said blade relative to said pair of rollers in a path toward and from the bottom of the groove of the first said roller.

2,659,141
BUTTON REMOVER
Arthur E. Ludgewait, Naugatuck, Conn.
Application July 21, 1950, Serial No. 175,095
1 Claim. (Cl. 30—131)



An implement for slitting seams and for removing buttons connected with a section of fabric by attaching threads, comprising a substantially flat elongated lifting blade and handle element having straight parallel side edges from end to end and provided in one end with a V-shaped opening extending longitudinally and centrally of said element, said opening forming spaced lifting arms for engagement beneath a button, a substantially flat elongated severing and slitting blade arranged adjacent one face of the lifting blade and slidably contacting the same, said blade having straight parallel side edges from end to end, said lifting blade and handle element and said severing and slitting blade being of the same length and width, said element being pivotally connected at its other end to said blade, and a lug formed on said other end of the element adjacent the pivotal connection and projecting into the path of swinging movement of the blade, said lug being so disposed as to limit swinging movement of the blade in one direction beyond one extreme position in which it is disposed at an obtuse angle to the element for slitting seams, and a second position in which it traverses said lifting arms, the blade having a cutting edge formed along one side edge thereof for coaction with one of said lifting arms to sever the attaching thread between the button and said element when the blade is swung to said second position.

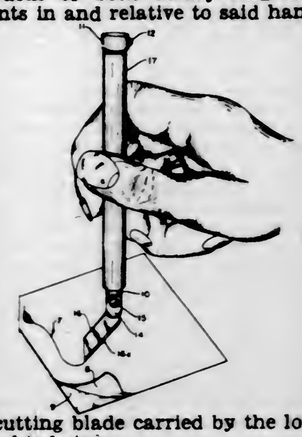
2,659,142
DEHORNING TOOL
Verle L. Fender, Carbondale, Colo.
Application June 12, 1952, Serial No. 293,086
9 Claims. (Cl. 30—245)



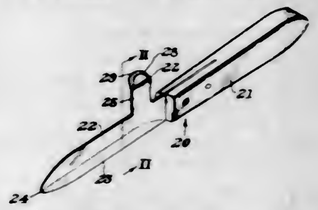
1. A dehorning tool comprising a body having a horn-receiving orifice, a pair of knives within this body mounted at opposite sides of the orifice and means for moving the knives toward each other across the orifices to effectuate a horn-cutting operation, said knives comprising flat members adapted to overlap each other as they move across the orifice.

2,659,143
STENCIL CUTTING KNIFE
Harvey L. Baker, Denver, Colo.
Application May 19, 1951, Serial No. 227,227
7 Claims. (Cl. 30—317)

1. A stencil cutting knife comprising a sleeve-like handle adapted to be held lightly in the hand of an operator, a weighted stem extending through said sleeve-like handle, said stem having freedom of both rotary and longitudinal movements in and relative to said handle, and a stencil cutting blade carried by the lower end of said weighted stem.



2,659,144
CULINARY DEVICE
Samuel F. Conkle, Columbus, Ohio
Application December 2, 1950, Serial No. 198,843
2 Claims. (Cl. 30—353)



1. A culinary device comprising a handle; a flat blade projecting axially from said handle, said blade having one longitudinal edge sharpened; a member projecting from the opposite longitudinal edge substantially in the plane of said blade; and an extension on said member lying in a plane at an obtuse angle to said member, which plane extends parallel to the longitudinal axis of said blade; and a sharpened arcuate edge on the outer end of said extension.

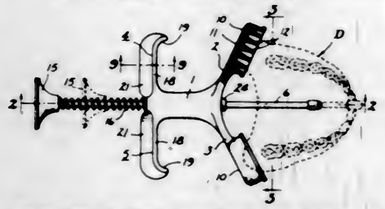
2,659,145
PREFORMED DENTAL INLAY
Max Barnett Gillman, New Hyde Park, N. Y., assignor of one-half to Harry Gillman, Flushing, N. Y.
Application February 8, 1952, Serial No. 270,573
4 Claims. (Cl. 32—6)



1. For use in conjunction with a filler of resinous cement to fill a prepared tooth cavity having a top opening in the occlusal surface of the tooth and a contiguous opening in the side sur-

face of the tooth, a preformed metal dental inlay comprising a body portion which has a top wall and a side wall angularly arranged in relation to each other with an open recess therebetween, said top wall having a top occlusal surface which is transverse to the longitudinal axis of said inlay, and a support member secured to said body member and depending centrally therefrom and extending an appreciable distance below the bottom end of said side wall in substantial axial alinement with said inlay, said support member being also connected to said side wall and having a transverse cross-sectional area which is appreciably less than the transverse area of said top wall to provide a relatively large recess between the lower portion of said inlay and the walls of said cavity for reception of said resinous cement when said inlay is fitted within said cavity, said support member being adjustable to a length in which said inlay may be fitted within said cavity in an inserted position in which the bottom of said support member rests upon the bottom wall of said cavity, the top occlusal surface of the inlay top wall partially covers the top opening of said cavity and is alined with the occlusal surface of the tooth, and the outer surface of the inlay side wall partially covers the side opening of the cavity and is alined with the side surface of said tooth, the top and side walls of said inlay being sized to be spaced around their entire peripheries from the respective top and side cavity openings in the inserted position of said inlay.

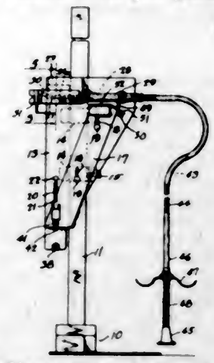
2,659,146
CLAMP FOR HOLDING DENTURES
Reinhold W. Erickson, Euclid, Ohio, and Charles S. Olson, Long Beach, Miss.
Application December 27, 1951, Serial No. 263,556
13 Claims. (Cl. 32—68)



1. A grip for holding a denture plate of the type having a heel portion and a curved frontal portion, said grip comprising a body member having a bifurcated end providing divergent limbs, said limbs being formed with cups for receiving spaced parts of the heel portion of a denture plate, a rod carried by the body member and guided thereby for longitudinal sliding movement along an axis located in the angle between the limbs of the body, means on the rod for engaging the curved frontal portion of a denture plate, and means resiliently biasing the rod to draw the plate engaging means of the latter toward the body member in gripping a denture plate between said last named means and the plate receiving limbs of the body member.

2,659,147
MECHANICAL HEM MARKER
George F. Halpin and Edward Lazaroff, New Haven, Conn.; said Lazaroff assignor of one-fourth to Irving Lazaroff, New Haven, Conn.
Application January 22, 1949, Serial No. 72,132
7 Claims. (Cl. 33—9)

1. A hem marker comprising a base and an upright bar mounted thereon, a support, means mounting the support on the bar for adjustment along the bar and securing it in different adjusted positions, a forming means including a backing member mounted on the support provided with an upright recess, an arm pivoted to the support and carrying a finger provided with an upright free edge movable into the recess to form an upright fold in a skirt around the edge of said finger, a horizontal pin guide mounted on



the support adjacent and at one side of said forming means, a plunger movable along the guide for inserting a pin horizontally through the upright fold while it is held in the forming means, and means mounted on the support for operating the folding arm to shift the free edge to folding position in the recess to form a fold and then shift the plunger to insert a pin through this fold.

2,659,148
BULB-EDGE GLASS-CUTTING MECHANISM
Louis Giulioli, Okmulgee, Okla., and Thomas A. Insolio, Ellwood City, Pa., assignors to American Window Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 9, 1951, Serial No. 214,657
1 Claim. (Cl. 33—42)

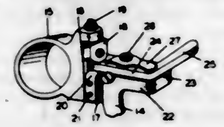


A glass-cutting device for cutting a moving sheet of glass longitudinally of its direction of travel, said device comprising a slide extending transversely of and slidable transversely of the glass sheet, a guide for guiding said slide, said guide comprising an upper series and a lower series of guide rollers spaced apart to receive said slide, a glass-cutter holder secured to said slide, a lead screw carried by said slide and extending transversely of the glass sheet, a nut threaded on said lead screw, a guide wheel carried by said nut and adapted to engage the edge of the moving glass sheet, and biasing means connected to said slide and said guide for urging said guide wheel against the edge of the moving glass sheet.

2,659,149
INDEX CLAMP
Charles O. Rothweiler, Milwaukee, Wis., assignor to David White Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 20, 1951, Serial No. 242,768
1 Claim. (Cl. 33—46)

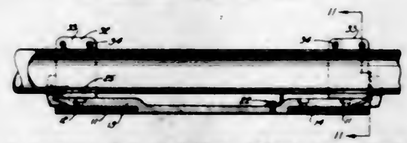
A telescope clamp for combination level transits, comprising, a frame, a telescope pivotally

mounted within the frame, a collar mounted on the telescope and provided with a pair of opposed blocks having facing arcuate surfaces adapted to receive a clamp member therebetween, the arcuate face of one of said blocks being comprised of an arcuate leaf spring mounted on the block and yieldable with respect thereto, said frame having a flat surface, a pivot sub-



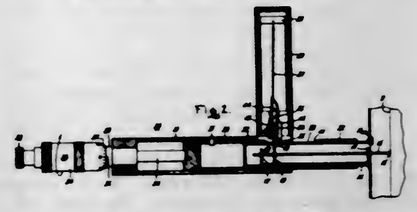
stantially normal to said surface, a clamp pivotally mounted on said pivot, and a leaf spring acting on said clamp and stressed by said pivot to hold the clamp against said flat surface to insure movement of the clamp in parallelism with the flat surface, said clamp being adapted to move between the arcuate surfaces on said block when in its operative position.

2,659,150
DETACHABLE GUN SIGHT MOUNT
Jay Feerick, Oakland, Calif., assignor, by direct and mesne assignments, of one-third to Clifford E. Welch, Hayward, Calif., and one-third to William J. Pacheco, Oakland, Calif.
Application October 21, 1949, Serial No. 122,707
4 Claims. (Cl. 33—50)



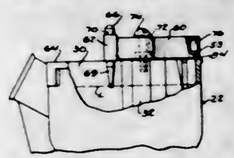
1. A mount for sighting telescopes comprising a base member having longitudinally spaced and relatively aligned pads having upper surfaces crowned transversely adjacent the edges thereof with respect to the plane of alignment of the pads and further having substantially flat coplanar portions adjacent the longitudinal axis of the pads, said base being further provided adjacent the lower surface of each pad with a recess provided with oppositely extending latch elements having declining side surfaces, said latch elements having their lower surfaces disposed above the lower surfaces of said pads, a pair of mounting elements adapted for engagement with portions of the body of said sighting telescope, said mounting elements having contoured lower surface portions adapted to overlie and bear against portions of the crowned upper surfaces of the pads, a latch member fixed to one of said mounting elements, a latch block mounted for movement in a direction substantially paralleling the axis of said telescope on another of said mounting elements, a latch member carried by said movable latch block, said latch members being positioned in a plane paralleling the bearing portions of the crowned and contoured surfaces, each of said latch members having a longitudinally sloping form substantially complementary with the form of said latch elements whereby when portions of the members are engaged in said latch elements the bearing points of the crowned and contoured surfaces will be brought together, and means for forcibly urging said latch members toward each other to correspondingly forcibly urge said bearing points together, the said complementary surfaces of the latch element and the latch block permitting relative movement therebetween only in a direction paralleling the longitudinal axis of said base member and said telescope.

2,659,151
CELL DIAPHRAGM POSITION INDICATOR
Alfred R. Lee, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 26, 1951, Serial No. 263,213
4 Claims. (Cl. 33—125)



1. Apparatus for measuring the position of a movable member in a sealed casing comprising a tube attached at one end to the outer surface of the casing, a rod connected at one end to the movable member and projecting out through the casing into said tube, a magnet member fixed on the rod within the tube, a tubular body member, a magnet member pivotally mounted on the body member, a reference scale carried by the body member, an indicating needle carried by the second named magnet member which moves over said scale, a tubular sleeve on which said tubular body member is slidably mounted, said sleeve being adapted to be positioned on said tube, and a micrometer carried by the tubular body member for measuring the position of the body member with respect to the sleeve when said magnet members are in alignment whereby deflection of the movable member may be measured by comparing successive measurements of the position of said first named magnet member, said tubular body member with the magnet member and micrometer carried by it and said tubular sleeve together forming a portable measuring instrument.

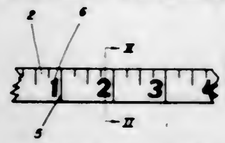
2,659,152
FUEL GAUGE FOR INTERNAL-COMBUSTION ENGINE CARBURETORS
Robert H. Hieger, Detroit, Mich.
Application September 11, 1950, Serial No. 184,134
2 Claims. (Cl. 33—126.7)



1. A test gauge for a carburetor having a float chamber with a float operatively arranged therein to maintain the fuel in said chamber at a predetermined level, said float chamber having walls with top edges adapted to receive an air horn section to close said chamber, and a column formed within said chamber and extending to the top thereof, said column providing a body for a number of fuel and air passages registering with their completing portions provided in the air horn when the same is mounted in place at the top of said float chamber; said gauge

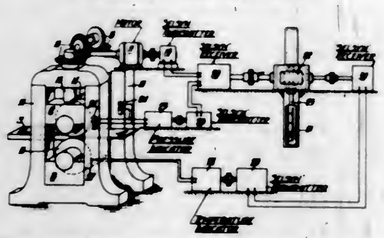
comprising a plate adapted to fit at the top edges of the float chamber when the air horn section is removed and to become located thereat to fit over said column and having calibrated fuel and air passages corresponding to those in the air horn section and adapted to complete the passages in said column similarly to said air horn section to maintain operation of the carburetor, and two pins provided on said plate, one of said pins extending beyond said plate surface for a distance equal to the distance from the top edges of the float chamber walls to the plane of the lowest permissible level of fuel in said chamber, and the other of said pins extending beyond said plate surface for a distance equal to the distance from the top edges of the float chamber walls to the plane of the highest permissible level of fuel in said chamber.

2,659,153
MEASURING TAPE
Allan R. A. Beeber, Matawan, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application June 21, 1949, Serial No. 100,335
5 Claims. (Cl. 33—137)



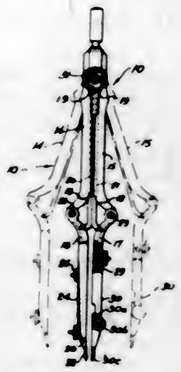
3. A measuring tape comprising a woven fabric strip, a fused resinous coating containing a pigment coated directly on said woven fabric strip, said pigmented coating comprising a resin selected from the group consisting of polyvinyl chloride resins, polyvinylidene chloride resins and combinations thereof, indicia including graduation lines in a contrasting color imprinted on said resinous pigmented coating and a fused clear coating coated on said pigmented resinous coating and said indicia, said clear coating comprising a resin selected from the group consisting of polyvinyl chloride resins, polyvinylidene chloride resins and combinations thereof, bonded with said pigmented resinous coating and forming a protective film over said indicia.

2,659,154
APPARATUS FOR MEASURING STRIP THICKNESS
George H. Rendel, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application February 15, 1952, Serial No. 271,687
5 Claims. (Cl. 33—147)



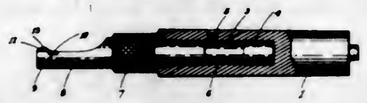
1. The combination, with a roll stand which includes roll housings, work rolls rotatably supported in said housings, and positioning means for adjusting the spacing between said rolls, of an apparatus for measuring the actual spacing between said rolls during a rolling operation and thus measuring the thickness of the rolled product comprising indicator means connected with said positioning means for measuring the initial spacing between said rolls before a rolling operation begins, indicator means connected with said roll stand for measuring the increase in spacing between said rolls caused by pressure during rolling, indicator means connected with said rolls for measuring the diminishment in roll spacing caused by the increase in roll temperature during rolling, and means interconnecting the three said indicator means to correct continuously during a rolling operation the measurement indicated on the first such means for changes caused by pressure and temperature.

2,659,155
DRAWING INSTRUMENT
Georg Lotter, Neustadt-Aisch, Germany, assignor of one-half to Erwin M. Riebe, New York, N. Y.
Application December 1, 1950, Serial No. 198,538
2 Claims. (Cl. 33—151)



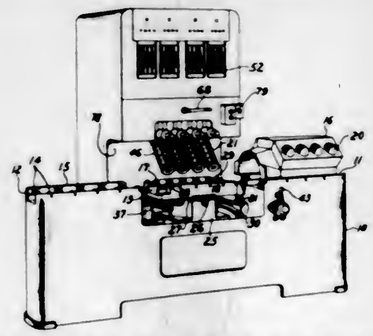
1. A pair of compasses comprising two upper legs, each of said legs being of substantially equal length and turned outwardly at the bottom along similar arcuate lines and terminating at the top in coacting gear teeth, said legs further having sleeves formed in the opposed longitudinal edges thereof intermediate the bottom turned portions and the gear teeth, a vertically directed plate for said gear teeth, means for pivotally securing the gear teeth in operable engagement to said plate with the opposed sleeves substantially in juxtaposition along a perpendicular line bisecting a line through the pivotal means in the closed position of said arms, clamping means perpendicular to the plane of the gear teeth for securing said arms in any desired position of separation, a lower leg for each upper leg, each lower leg being turned outwardly along similar arcuate lines at the top and coacting with the outwardly turned bottom of an upper leg, means for pivotally securing together the outwardly turned portions of each upper and lower leg, each lower leg further having a sleeve formed in the inner surface of the outwardly directed top thereof, the sleeve being substantially aligned with the sleeve of the pivotally secured upper leg, a link pivotally disposed intermediate a common point on said vertical plate below the gear teeth and the inner end of the sleeve of each lower leg, each link coacting with the sleeves of one pair of upper and lower legs, and both links being in juxtaposition along a perpendicular line substantially bisecting the line through the pivotal mounting means of the gear teeth in the closed position of said upper arms.

2,659,156
STEADY-REST CENTERING GAUGE
Robert Post, San Andreas, Calif.
Application March 4, 1950, Serial No. 147,697
2 Claims. (Cl. 33—169)



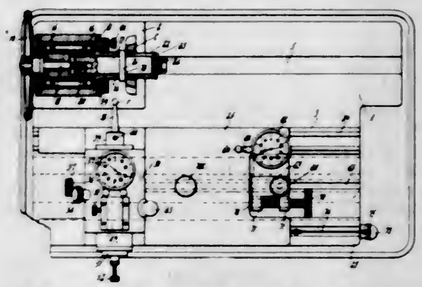
2. A centering gauge for the jaws of a lathe steady-rest comprising a taper shank to fit in the lathe tailstock, a spindle separate and projecting from the forward end of the shank, a jaw-engaging element mounted on the outer end of the spindle, and means mounting the spindle in the shank for free rotation and free but limited movement in an axial direction whereby to allow of quick advance and retraction of the element to and from a gauging position without movement of the shank and tailstock.

2,659,157
SIZE GAUGING DEVICE FOR V TYPE CYLINDER BLOCKS
Willis Fay Aller, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio
Application May 4, 1949, Serial No. 91,333
7 Claims. (Cl. 33—178)



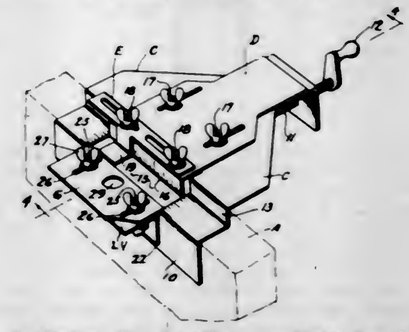
7. An apparatus of the character described for performing an operation on the angularly related bores of a V-type cylinder block comprising an extended base portion having similar vertically projected block supports at each end thereof, the length of each block support, and the space therebetween, being substantially equal to the length of the block being operated upon, a track along each block support, a symmetrical carrier rotatably mounted on said base about a vertical axis between said block supports, a track on said carrier in horizontal alignment with both of said block support tracks and substantially bridging the space between the block support tracks when aligned therewith, means for positioning a block in a predetermined position on said carrier track, means cooperating between said carrier and said base for locking said carrier in alignment with said block supports in two positions 180 degrees apart, a series of heads corresponding in number to the cylinder bores in one bank of the cylinder block, means slidably supporting said heads at an angle to the vertical alongside said carrier and along the axes of one bank of bores when a block is positioned on the carried in one of its two locked positions, and means connected to said heads for simultaneously projecting and retracting the heads into and out of operative association with each bank of cylinder bores as the carrier is positioned in each of its two 180-degree positions.

2,659,158
MACHINE FOR TESTING CHARACTERISTICS OF GEAR CUTTERS, GEARS, AND THE LIKE
Neal L. Cobb, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application May 28, 1946, Serial No. 672,827
4 Claims. (Cl. 33—179.5)



2. In a measuring apparatus of the character described, a supporting structure, a headstock mounted on said supporting structure, a spindle in said headstock on which work pieces may be mounted, a carriage on said supporting structure mounted for movement substantially parallel to the axis of said spindle, a slide on said carriage mounted for movement transverse to the movement of said carriage, a stop means on said support to limit the movement of said carriage, means urging said carriage against said stop means, a holder mounted to reciprocate in said slide, and a contact member fixed to said holder and adapted to engage a work piece mounted on said spindle.

2,659,159
JIG FOR MORTISING DOORS AND JAMBS
Chester C. Jarrett and Morris N. Griswold, Enumclaw, Wash.
Application April 18, 1952, Serial No. 283,144
2 Claims. (Cl. 33—197)



1. A device for locating mortises for hinge butts and locks on doors and door jambs and for supporting and guiding tools for cutting the mortises, comprising, a frame for adjustable connection upon edges of doors and jambs having an open area adjacent to the outer end of the frame for locating the mortises, a down turned jaw for disposition against the outer side of the doors and jambs and an adjustable clamp for binding

against the inner sides for sustaining the device in desired positions on the doors and jambs, a top plate slidable laterally over the frame having a down turned shoulder adjacent to the inner edge of the area for determining the inner line of the mortises and for supporting and guiding tools for cutting along the line, a strap member slidably mounted over and across the outer end of the top plate having a flange extended forwardly across the area for determining one end of the mortise at varying positions and for guiding and supporting tools for cutting downward for the end of the mortise, a fixed wall at the opposite end of the area for determining such opposite end and for guiding and supporting a cutting tool, a notch provided along the top of the jaw of greatest depth for thickness exceeding the thickness of butts, a bracket disposed on the outer face of the jaw in vertical slidable relation for limiting the depth of the mortises, a face plate slidably disposed on top of the bracket for determining the outer edges of mortises for locks, and for guiding and supporting tools for cutting along such edges, the said bracket and face plate being for the dual purpose of supporting tools for cutting the bottoms of mortises for hinge butts.

2,659,160
WELL SURVEYING INSTRUMENT
George A. Smith, Philadelphia, Pa., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application November 14, 1947, Serial No. 785,912
3 Claims. (Cl. 33—205.5)



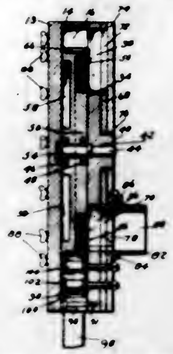
1. A well surveying instrument comprising a casing of a form adapted to be lowered into a bore hole, means for mounting a sensitized record member within said casing and transversely of the axis of said casing, a compass mounted within said casing, said compass comprising a spindle, means mounting said spindle for rotation about an axis extending in the direction of the axis of the casing and a magnetized needle mounted on said spindle for rotation about an axis perpendicular to the axis of the spindle, said needle being substantially non-pendulous and balanced to occupy at all times a substantially horizontal position irrespective of slope of the casing, and means mounted within said casing including illuminating means and a lens for projecting on said record member an image to record the position of said spindle relative to said casing.

2,659,161
FEED PRESERVATION
Ausie Calaway Eaves, Brawley, Calif., assignor to Ralston Purina Company, St. Louis, Mo., a corporation of Missouri
Application April 16, 1949, Serial No. 87,933
7 Claims. (Cl. 34—31)



1. The method of dehydrating alfalfa which comprises passing heated air through a mass of alfalfa for a period of time sufficient to heat alfalfa to a temperature of between approximately 100° F. and 158° F., said air having a specific humidity not more than that of saturated air at 158° F., and thereafter passing a further quantity of heated air through said alfalfa for a period of time sufficient to reduce the moisture content of said alfalfa to a value below approximately 10%, said further quantity of air having a temperature not substantially in excess of 350° F.

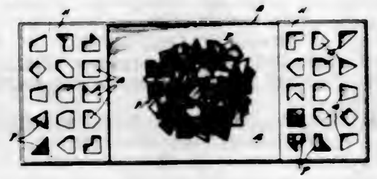
2,659,162
TURBULENT FLOW, RESTRICTED PASSAGE DRIER
Leonhard Katz, Woburn, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 17, 1950, Serial No. 144,829
5 Claims. (Cl. 34—122)



1. An apparatus for drying wet material comprising a container having an inlet, an intermediate duct passage and an outlet; a wheel disposed to rotate within said container, the peripheral face of said wheel having a contour suitable for carrying said material, and a side of said wheel having grooves to form passages connecting said inlet and said duct; means having a restricted passage about the periphery of said wheel, said restricted passage means connecting said duct and said outlet and dimensioned with respect to velocity flow of a drying medium in said restricted passage to produce turbulence in said flow thereby effecting a high rate of drying of said material.

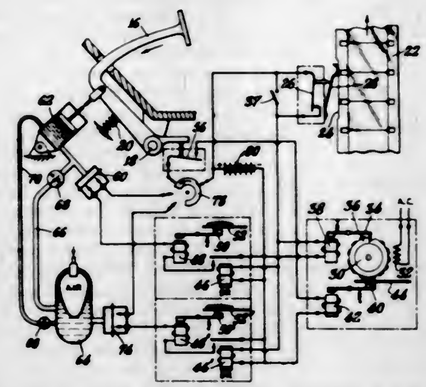
2,659,163
GAME APPARATUS
Wilder Jerome Albee, Tampa, Fla.
Application May 5, 1950, Serial No. 160,305
2 Claims. (Cl. 35—8)

1. In a game apparatus, at least two identical playing boards each having a plurality of depressions therein of different designs formed by the defining edges of the depressions, the depressions in one board being the same as the depressions in the other board and equal in number, a multiplicity of intermingled playing pieces comprising at least one playing piece for each de-



pression in each board and of the same design as said depressions and so dimensioned as to fit slidably into the corresponding depressions, and further comprising other playing pieces of the same design but of greater size than said depressions, so that said last pieces do not fit into the depressions.

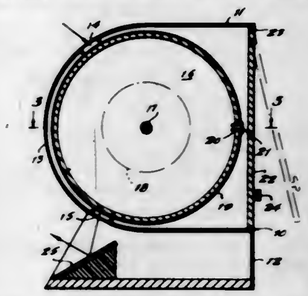
2,659,164
TESTING AND TRAINING APPARATUS
Hobart N. Durham, Munsey Park, N. Y.
Application April 24, 1951, Serial No. 222,600
8 Claims. (Cl. 35—11)



1. In a driver training and testing apparatus the combination of means for presenting a stimulus to the view of the subject, a brake control member, means responsive to the force with which the brake control is applied for indicating the amount of said force and means for measuring the elapsed time between the stimulus and the actuation of the brake control.

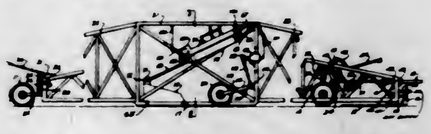
2,659,165
EDUCATIONAL TOY
Edward F. Grubola, Long Island City, N. Y.
Application April 12, 1951, Serial No. 220,650
5 Claims. (Cl. 35—77)

1. In an educational toy, a substantially closed partly cylindrical casing, a drum-like rotor revoluble therein, means for operating the rotor from without the casing, a problem-and-answer strip carried by the rotor, and wherein the problems and answers are offset and peripherally spaced relative to one another, the casing having at its front two peripherally spaced openings offset relative to one another at different parallel planes, the spacing and offset disposition of the openings corresponding to the offset and location of the problems and answers on the strip, one opening serving for rendering visible a problem appearing upon the strip, the other opening



facilitating the observation of the answer carried upon the strip.

2,659,166
LAND LEVELING MACHINE
Berton M. Mathias, Monte Vista, Colo.
Application April 29, 1949, Serial No. 90,470
3 Claims. (Cl. 37—126)

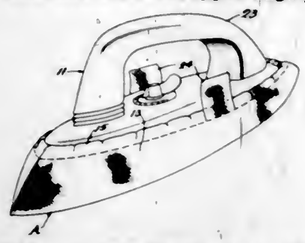


1. A land-leveling machine comprising an elongated frame having a front end and a rear end, wheels connected to said frame at its front and rear ends for supporting the latter, a scraper blade secured to and extending transversely of said frame near the mid-length location of the latter, said blade being inclined forwardly and downwardly relative to said frame, an earth-receiving scoop pivotally connected at its forward edge to said frame at the rear edge of said blade and extending rearwardly from the latter, hydraulic mechanism connected between said frame and said scoop for tilting said scoop about the pivotal connection between said scoop and said frame to discharge earth from said scoop, said hydraulic mechanism being movable relative to said frame and including a control valve, a bell crank lever pivotally mounted on said frame, a ground-engaging wheel carried by said bell crank lever at one end of the latter, a motion transmitting connection between the opposite end of said bell crank lever and said control valve, and a motion transmitting connection between said frame and said control valve for controlling the operation of said hydraulic mechanism to move said scoop in accordance with the vertical movements of said ground-engaging wheel.

2,659,167
FLATIRON PRESSING STOCKING
Harry Weiden, Plant City, Fla.
Application May 17, 1950, Serial No. 162,468
3 Claims. (Cl. 38—97)

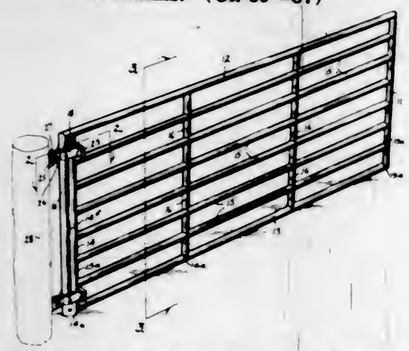
3. In combination, a flat iron having a handle member, side walls, and a sole plate forming the underside thereof adapted to be heated for ironing operations and a resilient stocking woven of glass fibers and shaped substantially to conform to the contour of the iron with a central portion positioned adjacent the underside of the sole plate and side wall portions extending upwardly

therefrom all around to embrace the side walls of the iron, and means in the upper edge portion of



the side walls for tensioning the stocking about the iron when in position of use.

2,659,168
TUBULAR GATE
Sam Kaplan, Sioux City, Iowa
Application February 16, 1951, Serial No. 211,409
8 Claims. (Cl. 39—87)



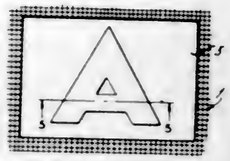
1. A gate of substantially rectangular form composed of a pair of tubular end members and a pair of tubular side members integrally connected at the respective corners, a plurality of relatively closely spaced parallel tubular reinforcing members integrally joined at their respective opposite ends to said end members, and a plurality of tubular spacer support members arranged between said reinforcing members in alignment and substantially parallel to said end members and each integrally joined at their respective ends to said reinforcing members.

2,659,169
MAGNETIC ATTACHING MEANS FOR ORNAMENTAL OBJECTS
Raymond F. Brennan, Attleboro, Mass.
Application May 22, 1951, Serial No. 227,630
7 Claims. (Cl. 40—1.5)



6. In a medallion, emblem, badge or the like comprising a concavo-convex forward wall, a rearward wall of non-magnetic material closing the opening in the forward wall, said rearward wall formed with openings bridged by transverse crossbars, and attaching means comprising permanently magnetized elements slidable in the openings in the rear wall and slotted to engage the crossbars to prevent disconnection from the article, said magnetized elements being adapted to make contact with a metal surface and adhere thereto for fastening the article in place thereon.

2,659,170
ADVERTISING SIGN
Eldon J. Hill, Dallas, Tex., assignor to Burdick-Baron Company, Dallas, Tex., a corporation of Texas
Application August 4, 1951, Serial No. 240,369
3 Claims. (Cl. 40—125)



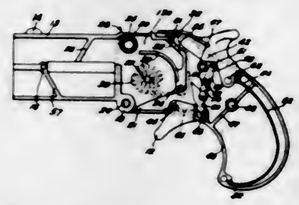
1. An advertising display sign comprising a section of open-mesh screen material having a sign-element located entirely within an area which is substantially smaller than the total area of the section and is spaced inwardly at all points from the peripheral margins of the screen material, said sign element comprising a sign-forming body consisting of a solid, substantially rigid but somewhat pliable material extending entirely through and filling the interstices of the screen material in a defined area having a selected marginal contour, said sign-forming body being thicker than the screen material and having oppositely presented faces located outwardly and on opposite sides of the screen material, and a second sign-forming body consisting of a solid, substantially rigid but somewhat pliable material extending through and filling the interstices of the screen material in another defined area directly contiguous to the first-mentioned defined area, said second sign-forming body projecting outwardly on both sides of the screen material and being substantially thicker than the first-mentioned sign-forming body, thereby providing outwardly presented faces which are respectively spaced outwardly in relation to the adjacent outwardly presented faces of the first-mentioned sign-forming body, said second sign-forming body, furthermore, extending marginally over on both sides of the first-mentioned sign-forming body in the provision of a tongue-and-groove type of interlock between the two sign-forming bodies along the line contiguity thereof.

2,659,171
ADVERTISING SIGN
Eldon J. Hill, Dallas, Tex., assignor to Burdick-Baron Company, Dallas, Tex., a corporation of Texas
Application August 4, 1951, Serial No. 240,370
1 Claim. (Cl. 40—125)



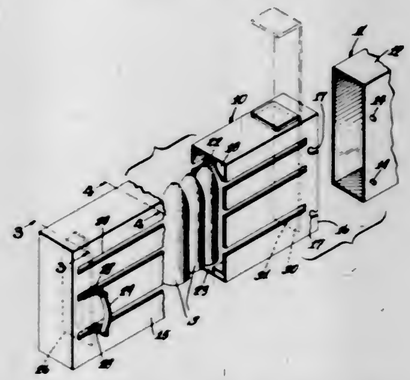
An advertising display sign comprising a section of open-mesh screen material formed of interwoven strands and having a sign-element located entirely within an area which is substantially smaller than the total area of the section and is spaced inwardly at all points from the peripheral margins of the screen material, said sign element comprising a foraminous sign-forming body consisting of a substantially rigid but somewhat pliable material extending entirely through the interstices of the screen material in a defined area having a selected marginal contour and completely encasing the interwoven strands in such defined area but not completely filling said interstices, said first sign-forming body being thicker than the screen material and having oppositely presented faces located outwardly and on opposite sides of the screen material, and a second sign-forming body consisting of a solid, substantially rigid but somewhat pliable material extending through and filling the interstices of the screen material in another defined area directly contiguous to the first mentioned defined area, said second sign-forming body projecting outwardly on both sides of the screen material, thereby providing outwardly presented faces which are respectively spaced outwardly in relation to the adjacent outwardly presented faces of the first-mentioned sign-forming body, said second sign-forming body, furthermore, extending marginally over on both sides of the first-mentioned sign-forming body in the provision of a tongue-and-groove type of interlock between the two sign-forming bodies along the line contiguity thereof.

2,659,172
FIRING MECHANISM FOR PISTOLS
Robert D. Parry, Cincinnati, Ohio, assignor, by mesne assignments, to Karl J. Eckstein and Eldon C. Mistler
Application July 14, 1950, Serial No. 173,808
6 Claims. (Cl. 42—57)



1. Self-action hammer mechanism for a pistol comprising a spring urged hammer, a spring urged trigger pivoted intermediate its ends below the hammer, a guide flange extending upright above the level of the trigger pivot, a finger pivoted at its bottom end on the rear end of the trigger and having a free end, a thrust linkage including a spring toggle joint, said linkage pivotally connected at its lower end intermediate the ends of the finger and pivoted at its top end intermediate the ends of the spring urged hammer and serving to normally hold the free end of the finger away from the guide flange when the hammer and trigger are released to the influence of their respective springs, the trigger being manually movable about its pivot against the resistance of its spring whereby the free end of the finger is first moved forwardly into contact with and then slidably upwardly along the guide flange said upward sliding movement of said finger serving to correspondingly elevate the connected lower end of the thrust linkage and cause the latter to thrust endwise against the hammer for pivoting the hammer against the resistance of its spring, and a fixed abutment pin engageable adjacent the spring toggle joint of the thrust linkage for breaking said joint and releasing the hammer to the influence of its spring, release of the trigger to its spring action serving to return the parts to their first described relation.

2,659,173
DEVICE FOR LOADING THE MAGAZINES OF AUTOMATIC GUNS
Gregory D. Capito, Warren, Ohio
Application November 28, 1949, Serial No. 129,853
2 Claims. (Cl. 42—87)



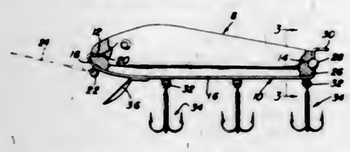
1. A transportable device for loading the magazine of an automatic gun, comprising: an oblong container; a casing within said container having a transverse wall generally following the longitudinal outline of a shell and being elongated to receive a plurality of shells generally in in-line relationship, said container and said casing having related open ends at least one of which is connectable to said magazine, and said casing having longitudinally extending recesses at the detonator cap portion and the firing cap portion of said shells so that said shells may be moved longitudinally of said casing and outward of its open end without engagement between said casing and said detonator cap and firing cap portions, said container and said casing having aligned openings providing for view of a portion of at least one shell to determine identity of the type of shells carried by said casing, and said container and said casing having aligned longitudinally extending openings in opposite sides; pusher-plate means, adapted for movement longitudinally of said container and engageable with the rear-most shell to transmit pushing force laterally through said in-line shells whereby said shells are pushed outwardly of the open end of said casing and inwardly of said magazine, said pusher-plate means having arms extending outwardly of said casing and container through respective longitudinally extending openings, each arm having a handle pivotally carried thereby so that said handles may be folded flat against respective sides of said container, said handles being adapted for engagement by an operator for exertion of thrusting force on said pusher-plate means; and movably mounted stop-plate means, in one position blocking outward movement of said shells so that said container may be transported and stacked without loss of shells and without danger of explosion, and in another position being out of the path of said shells so that said shells may be delivered to said magazine.

2,659,174
FISHING LINE ACTUATOR
Donald D. Leach, Cincinnati, Ohio
Application July 25, 1951, Serial No. 238,511
1 Claim. (Cl. 43—15)



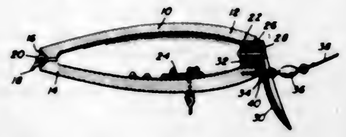
A combination fishing rod holder and line actuator, comprising a pair of laterally spaced supports, a cylinder secured to and spanning one end of said supports, a piston slidably receivable within said cylinder, resilient means normally urging said piston to the rear end of the cylinder, a trigger pivotally secured relative to the forward end of the cylinder including a portion which projects forwardly of and beyond the cylinder and a portion which extends rearwardly over the forward end of the cylinder, the rearward portion of the trigger including means releasably engageable with said piston for securing it at the forward end of the cylinder against the counterforce of the resilient means, said piston including means releasably engageable by a fishing line, the forward portion of the trigger terminating in a fishing line receptive eyelet, and fishing rod clamping means on said supports, said means comprising axially aligned notches in a side of each of said supports below said cylinder, and clamps in each notch, said clamps each including a rod engaging leg and a support engaging leg, means for releasably securing the support engaging legs to their respective supports, each said rod engaging leg being adapted to abut a fishing rod disposed in said notches and spanning said supports for mounting said rod below said cylinder whereby the forward end of the trigger may be disposed with its eyelet above, adjacent and rearward of a line eyelet of the rod, the free ends of said supports adapted to be inserted into a supporting surface.

2,659,175
VARIABLE MULTIPURPOSE LURE
Wilbur D. Carpenter, Coffeyville, Kans.
Application April 5, 1951, Serial No. 219,397
2 Claims. (Cl. 43—42.09)



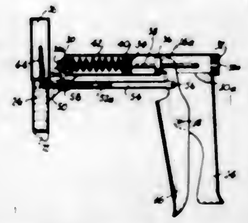
1. In combination, a fishing plug having an axial keeper socket in its leading end and an axially disposed recess in its trailing end constituting a keeper seat, an adapter unit in the form of an elongated resilient member of small cross-section from end to end and having its leading end laterally curved and provided with a rearward bend providing a terminal releasably fitting in said keeper socket, the trailing end of said member having a lateral bend contacting the trailing end of said plug and being provided with a fixed bead, said lateral bend being resilient and having a rearwardly directed lateral terminal eye providing a finger-piece, and complemental accessories attached to and suspended from said adapter unit.

2,659,176
FISHING LURE
Harvey R. Wenger, Sabetha, Kans.
Application August 22, 1951, Serial No. 243,041
2 Claims. (Cl. 43—42.31)



1. A fishing lure comprising an elongated hollow one piece rigid body open at its forward end and closed at its rear end, a plug frictionally fitted in the open end of said body and having a flat front face, a guide spoon having a flat portion at its upper end fixed against the front face of the plug, a line attaching member fixed to the forward end of said body, and a line attached to said member, said spoon having an opening accommodating said member and permitting retention of said spoon and plug on the member when the plug is removed from the body.

2,659,177
BUBBLE BLOWING GUN
Philip Kopf, Brooklyn, N. Y.
Application June 18, 1951, Serial No. 232,180
5 Claims. (Cl. 46—8)



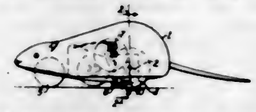
1. A bubble blowing gun of the character described, comprising a barrel, a nozzle at the muzzle end of the barrel, a handle at the breech end of the barrel, a piston assembly in the barrel intermediate the nozzle and the handle, a lever pivotally mounted intermediate its ends on said handle, the upper end of said lever being operatively connected to said piston, whereby working the lever relative to the handle actuates the piston and causes it to blow air out of the barrel through the nozzle, a tank containing bubble-making liquid secured to the muzzle end of the barrel, a spaced distance below and in front of the nozzle, a liquid-tight closure pivoted on said tank and spring-urged to closed position, a pivotally mounted loop in said tank, and a link connecting said lever to said loop, whereby working the lever relative to the handle causes the loop to pivot out of the tank and into line with the nozzle, and means to raise the closure in advance of the loop.

2,659,178
TOY FLYING SAUCER
Carroll H. Van Hartesveldt, Cleveland, Ohio
Application December 30, 1950, Serial No. 203,735
15 Claims. (Cl. 46—76)

7. A toy flying saucer comprising an inverted saucer, a disk spanning the open bottom of the saucer, a spindle assembly connecting the saucer and disk in relatively rotatable relation, said spindle assembly adapted to rotate with the bowl, a bomb release mechanism actuated by the rotating spindle assembly, and a rudder member on said floor holding the floor against rotation.

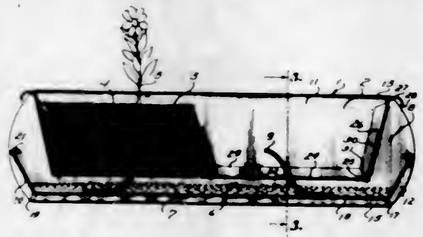


2,659,179
TOY VEHICLE
Heinrich Müller, Nurnberg, Germany
Application February 28, 1950, Serial No. 146,874
Claims priority, application Germany
January 2, 1950
5 Claims. (Cl. 46—208)



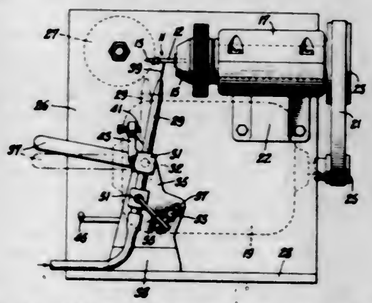
1. A wheeled toy comprising a spring motor driving mechanism, one of the supporting wheels being operatively connected with the driving mechanism, a stationary part fixed to the frame of the toy, and a sticky adhesive section on the side of the wheel to cooperate and contact the stationary part by adhesion to prevent the driving mechanism from moving the toy until after a time interval which the said section separates from its stationary part due to loss of adhesion by the sticky section on the stationary part to thereafter permit the driving motor to drive the toy.

2,659,180
PLANT BOX
Grant M. Acton, Arkansas City, Kans., assignor to Acton Products, Inc., Arkansas City, Kans., a corporation of Kansas
Application September 10, 1949, Serial No. 115,057
2 Claims. (Cl. 47—38)



1. A plant box of the character described comprising, a metal container having spaced side walls, said side walls having lower edges adapted to rest on a support surface for the container, a bottom wall extending between the side walls above the lower edges thereof whereby said bottom wall is above the supporting surface for the container, upwardly and outwardly sloping end walls on the bottom wall, the side edges of the bottom and end walls being secured to the side walls to form watertight joints, said end walls terminating substantially midway the height of the side walls, a partition extending between the side walls below the upper edges of the end walls and in spaced relation to the bottom wall to form a space between the partition and the bottom wall for receiving a quantity of water and plant food with the surface of said water and plant food spaced below the partition, said partition terminating in spaced relation to the end walls, end members on the partition and extending upwardly and outwardly therefrom and spaced from the upwardly and outwardly sloping end walls on the bottom wall to form an upwardly opening passage between the end walls and end members at each end of the container communicating with the space between the bottom wall and partition whereby air circulates through the passages and space over the surface of the water and plant food, upwardly and inwardly turned flanges, respectively, on the partition and end members secured to the side walls whereby the side walls, end members and partition define an open top soil receptacle, outwardly turned curved flanges on the upper edges of the end members, said partition having a plurality of apertures therein, and strips of material having capillary capacity extending through said apertures with end portions projecting into water and plant food contained in the water-receiving space and into the soil in the soil receptacle whereby water and plant food are elevated by said strips into the soil.

2,659,181
PROCESS OF AND APPARATUS FOR FORMING STYLUSLIKE ARTICLES FROM CORUNDUM OR SPINEL
Donald M. Yenni, Williamsville, and Thomas F. Hart, Buffalo, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application January 30, 1947, Serial No. 725,300
11 Claims. (Cl. 49—7)



3. A process for forming a stylus-like article having a rounded end from a body of one of the materials selected from the group consisting of corundum and spinel, said process comprising grinding an end portion of said body to a taper having an apex, and melting material adjacent to and including said apex by heating said material whereby the molten material is drawn into a curved surface.

8. Apparatus for flame forming a stylus-like article having a rounded end from a body of corundum or spinel having a part tapering to an apex, said apparatus comprising a rotatable holder so constructed and arranged as to support such a body for rotation about the longitudinal axis of said tapering part of said body, means for applying to said body a flame of such a size as to heat only a narrow peripheral zone of said body, said means for applying said flame being pivotally mounted and movable relative to said holder in a direction lengthwise of said tapered part starting with an initial peripheral zone remote from said apex and approaching said

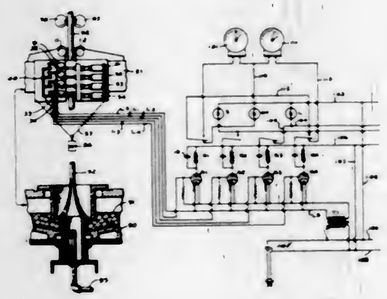
apex to heat successive peripheral zones of said body, a device for reducing the heating intensity of said flame, means coacting with said device and operable automatically during such movement to operate said device as said flame is applied to successively smaller diameter zones on said tapered part, and means to be engaged by said means for applying said flame and stopping the movement of said latter means at a predetermined position of said flame relatively to said body.

2,659,182

SIZE CONTROL OF LINEAR BODIES

Leroy C. Argyle, Elmira, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application October 23, 1947, Serial No. 781,575
7 Claims. (Cl. 49—17.1)



1. In the method of continuously producing a linear body of material of a desired thickness range, the steps of passing the body through a gauging device for measuring the thickness of the body, said gauging device being positioned near the source of formation of the body and operatively connected to a timing device having a fixed predetermined cycle, initiating the operation of the timing device by operation of the gauging device when the thickness of the body is outside of the desired range and initiating a size correction of the body only after the timing device has completed its predetermined cycle and only when said thickness of the body as measured by said gauging device continues to be outside said desired range throughout said predetermined cycle.

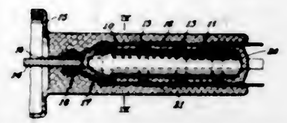
6. For use with equipment for the continuous fabrication of a linear body of material, an associated thickness gauging device through which the body passes, a timing device having a fixed predetermined cycle and operatively connected to the gauging device, the operation of said timing device being initiated by operation of the gauging device when the thickness of the body is outside of a desired range, mechanism for applying corrective adjustment to said equipment in small increments, and an operating circuit for said corrective mechanism including a circuit member closed only during passage through said gauging device of material outside the desired thickness range and a second circuit member closed only by the completion of said predetermined cycle of the timing device, effective operation of the corrective mechanism thereby being initiated only after the material passing through the gauging device continues to be outside the desired thickness range throughout said predetermined cycle of the timing device.

2,659,183

ELECTRICAL CONDUCTOR FOR DISCHARGE DEVICES

William T. Anderson, Jr., Maplewood, N. J., assignor to Hanovia Chemical & Manufacturing Co., Newark, N. J., a corporation of New Jersey

Application November 13, 1950, Serial No. 195,401
2 Claims. (Cl. 49—92.5)



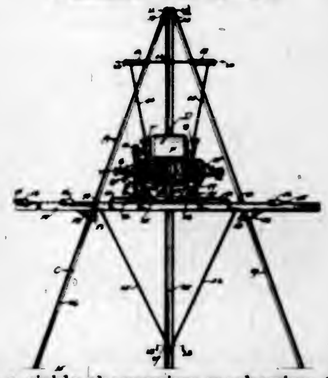
1. A seal structure of the class described comprising a vitreous core, a lead-in conductor comprising a plurality of conductor sections extending along the outer surface of said core in substantially parallel relation, each of said sections having two spaced apart thin foil portions connected together by a thick portion, a rod-like metal member in end to end alignment with said core and having one end connected to the near ends of said sections, at least one heavy portion connected to the opposite end of said sections, a vitreous jacket surrounding said core, said thin foil portions being vacuum-tightly fused between the adjacent surfaces of said core and jacket, said thick portion being firmly fused between said core and jacket, said heavy portion and said rod-like member having their inner ends firmly fused in the end of the vitreous material of said core and jacket and having their outer ends emerging from said vitreous material.

2,659,184

TOOL SHARPENING MACHINE

Arthur T. Mead and Ronald E. Mead, Wood River, Nebr.

Application February 11, 1952, Serial No. 270,992
3 Claims. (Cl. 51—33)



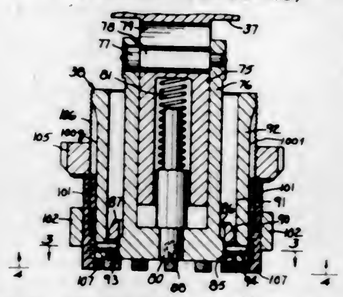
1. In a sickle sharpening mechanism the combination of a frame including a platform, a motor mounted upon the platform, a shaft rotatably supported upon said frame in parallelism with the axis of the motor, means connecting said motor for the rotation of said shaft, rotatable sharpening wheels, supporting arms rotatably supporting said wheels, means independently mounting said arms upon said shaft for independent pivotal lifting and lowering action of the wheels relative to said shaft, means for laterally moving one of said wheels and its arm with respect to the other wheel, and means connecting said wheels with said shaft for the simultaneous drive of said wheels.

2,659,185

HONING MACHINE

Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application June 29, 1951, Serial No. 234,285
3 Claims. (Cl. 51—55)



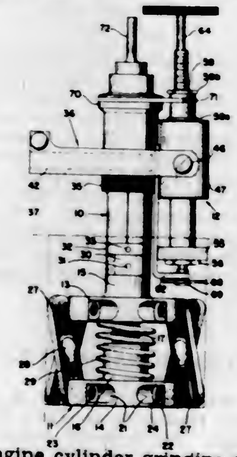
1. In a honing machine having a rotatable spindle and a honing head thereon including a slidably mounted sleeve on said spindle, driving connections between the spindle and sleeve including an elongated slot in said spindle and a drive pin on said sleeve passing through said slot, an outer sleeve surrounding said first sleeve which is concentric with and spaced therefrom, a plurality of spaced grooves formed in the outer periphery of the outer sleeve, a honing element adjustably clamped in each of said grooves, the ends of said elements forming a plane honing face, yieldable means interposed between the spindle and inner sleeve to facilitate an axial yielding movement of the sleeve and honing head, and a universal driving connection between the lower ends of said sleeves to facilitate equalizing the pressure applied to said honing face.

2,659,186

RIDGE GRINDER FOR ENGINE CYLINDERS

Melvin S. Burkholder, Beaverdam, Ohio, assignor of one-half to Wilbur Glenn Hardy, Wapakoneta, Ohio

Application November 17, 1949, Serial No. 127,939
6 Claims. (Cl. 51—245)



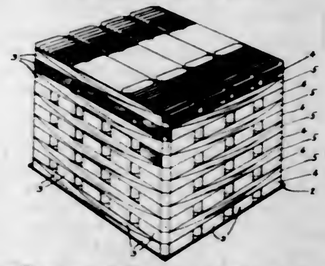
1. In an engine cylinder grinding machine, in combination, a spindle having an expansible foot at one end thereof, a tubular structure surrounding a central portion of the spindle slidable longitudinally thereon and in rotational engagement therewith, a mounting supported on and extending transversely to and beyond said tubular structure at said central portion of said spindle, said mounting being movable longitudinally with respect to said spindle, a grinding unit pivotally supported on said mounting and extending parallel with said spindle, said grinding unit comprising a quill, a shaft rotatably mounted in said quill and extending therefrom, a grinding wheel on the lower end of said shaft, and guide means supported from said quill and positioned below said grinding wheel in spaced vertical relation therewith, spring means positioned above the said grinding wheel retained on the mounting and engaging between the said quill and transverse mounting and resiliently urging the said quill, shaft and grinding wheel into an extended position outwardly from said spindle, and means secured to said tubular structure above said mounting for moving said mounting and tubular structure in paths about said spindle.

2,659,187

METHOD OF PACKAGING EMPTY BAGS

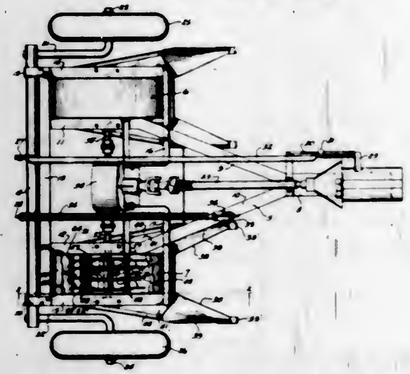
Marshall C. Barnes, Minneapolis, Minn., assignor to Bemis Bro. Bag Company, Minneapolis, Minn., a corporation of Missouri

Application April 8, 1950, Serial No. 154,859
5 Claims. (Cl. 53—7)



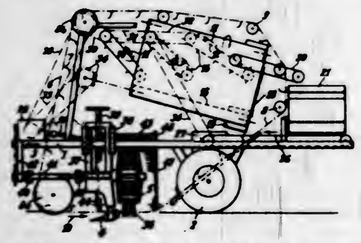
1. A method of packing a predetermined number of flat empty bags into a bale, and wherein the bottom end of each bag is relatively thicker than the top end thereof, which consists in stacking the bags to be baled into a plurality of small bundles, with the bags of each bundle being disposed in flatwise relation with their bottom ends at one end of the bundle, whereby one end of each bundle is relatively thicker than its opposite end, placing a group of said bag bundles on one end portion of a supporting member in side by side relation, to cover substantially the entire surface, with the thick ends of the bundles disposed adjacent an outer edge of the supporting member and having the top ends of the bags directed inwardly towards the central portion of the supporting member, similarly placing a second group of bag bundles on the opposite end portion of the supporting member with the thin ends of the bundles disposed adjacent to the thin ends of said first placed bag bundles to form a tier of bag bundles on said supporting member, longitudinally offsetting the top bags of each bag bundle in a direction towards the central portion of the supporting member to decrease the thickness of the thick ends of said bundles and to substantially equalize the thickness of said tier of bundles, stacking a second tier of bundles upon said first tier with the bundles of the second tier disposed in right angular relation to the bundles of the first tier, and so continuing to stack the bundles in alternate tiers until the bale has received the required number of bags.

2,659,188
FARM ROW CROP SHREDDER
Joseph Haban, Sturtevant, Wis.
Application March 31, 1950, Serial No. 153,224
14 Claims. (Cl. 55—118)



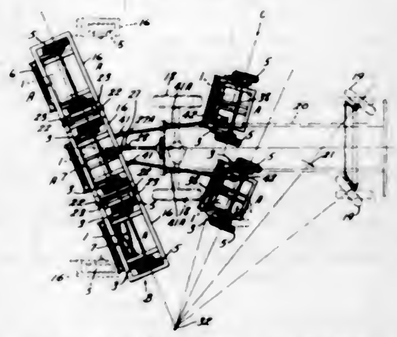
1. In a farm row crop shredder having a wheeled supporting frame adapted to be moved through a field: a rotary hammer unit mounted on said frame for rotation on a horizontal axis, said unit including a plurality of swingably mounted hammer bars; and a casing carried by said frame and surrounding said hammer unit to form an enclosed chamber within which said unit is rotatable, said casing comprising: a pair of opposing side walls; a top wall; and a bottom wall between said side walls directly below and close to the lowermost portion of the path of movement of the hammer unit, said casing being mounted on said frame so that said bottom wall is moved along the surface of a field when said shredder is in use, said casing having a forward feed opening adjacent said hammer unit and bottom wall for the reception of the row crop which is projected therethrough by movement of the shredder along a crop row, and said casing also having an opening for the discharge therefrom of portions of the crop which have been shredded by said hammer unit.

2,659,189
POTATO HARVESTING MACHINE AND SEPARATING CONVEYER THEREFOR
Claes Berg, Herbert Carlsson, and Reinhold Valentin Ekman, Overum, Sweden, assignors to Aktiebolaget Överums Bruk, Overum, Sweden, a Swedish joint-stock company
Application December 5, 1949, Serial No. 131,234
5 Claims. (Cl. 55—137)



1. A potato harvesting machine comprising, in combination, an endless grated potato elevator chain movable in the longitudinal direction of the machine and comprising a lower substantially horizontal potato receiving part and a widely spaced upper part, an endless grated baffle chain movable around an upper shaft and a lower shaft, which lower shaft extends along and close to one edge of said receiving part, said baffle chain being driven in such a direction that the side turned towards the elevator chain is moved upwards for discharge of such stalks and leaves from potato plants thrown onto the said side of the baffle chain, which are caught by the baffle chain, a potato plant digging share located laterally of said receiving part and at the side opposite to the baffle chain, a rotatable shovel wheel for throwing the dug potato plants through the space between said upper and lower parts of the elevator chain and towards said baffle chain, a number of transversely extending catching members mounted on the inside of said elevator chain for lifting material dropped on said receiving part from the baffle chain and for discharge thereof from an upper position, and an endless travelling apron within said elevator chain for separating material discharged thereon by said catching members, said apron having its upper side travelling upwards and sloping at such an angle that stalks and leaves are carried away and discharged at the top end thereof and potatoes are rolling down the same.

2,659,190
GANG MOWER INTERCONNECTING MEANS
Herbert Imbt, Stroudsburg, Pa., assignor to Worthington Mower Company, Stroudsburg, Pa., a corporation of Delaware
Application February 6, 1950, Serial No. 142,600
8 Claims. (Cl. 56—7)

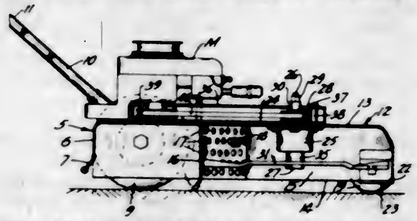


1. In a gang mower, the combination of at least two mower units arranged one in advance of and to one side of the other, at least one of said units having wheels to run on the ground, the draft point of said one of the units being in advance of the axial line of said wheels, and said unit being free to turn to the side as it is propelled at said draft point, the other of said two units also being turnable to the side, and a member connecting said two units through which the first mentioned of said two units positions the other of said two units with respect to sidewise turning.

2,659,191
COMBINED GRASS MOWER AND LEAF MULCHER
William F. Miller and Harley E. Kroll, Minneapolis, Minn., assignors to Toro Manufacturing Corporation, Minneapolis, Minn., a corporation of Minnesota
Application February 16, 1951, Serial No. 211,368
5 Claims. (Cl. 56—25.4)

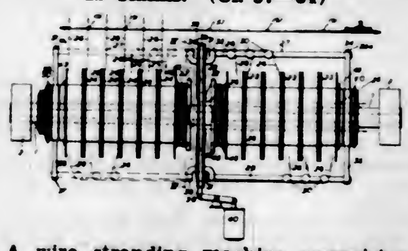
1. In a combined grass mower and leaf mulcher, the combination of an ambulant frame, a

housing of generally cylindrical shape mounted on said frame and having a substantially open bottom and closed top and substantially vertical side walls, said housing having vertically disposed forward and rear portions, the bottom of said housing being normally disposed a short distance above the ground, the rear portion of said housing having a plurality of relatively small discharge apertures formed therethrough, a cutter element mounted for rotation within said housing in a substantially horizontal plane on a vertical axis disposed centrally of said housing, said cutter element having a sharpened leading edge and an upwardly extending trailing edge and being of sufficient length to extend outwardly from its axis of rotation to positions in close proximity to the side walls of said housing and being adapted to be connected to a source of rotary power for rapid rotation whereby said



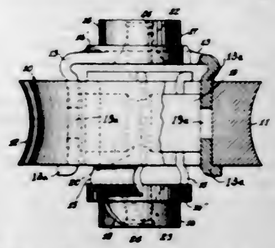
trailing edge may create during rotation of said cutter element upwardly directed air currents to draw the grass and leaves upwardly into the path of said sharpened leading edge for efficient mowing and comminution of the same and to cause the comminuted material to be discharged through said apertures, and an air current directing member carried by said housing and disposed below said cutter element along the forward portion only of said housing and extending inwardly a short distance toward the center of said housing to redirect descending air currents formed within said housing and to prevent partially comminuted material from being carried outwardly beyond the confines of said housing and to permit said cutter element to simultaneously and effectively mow the grass and draw the leaves and cut grass within said housing for efficient comminution of both.

2,659,192
STRANDING MACHINE
Stanley Warwick Ripley, Gravesend, England, assignor to British Insulated Callender's Cables Limited, London, England, a British company
Application April 6, 1951, Serial No. 219,610
Claims priority, application Great Britain April 20, 1950
12 Claims. (Cl. 57—34)



5. A wire stranding machine comprising at least one section comprising a main support tube, means for driving said tube in rotation about its axis, a pair of bobbin support tubes rotatably mounted on said main support tube, two groups of axially aligned bobbins rotatably mounted, one group on each of said bobbin support tubes, means for driving each bobbin support tube by said main support tube and independently of said main support tube, alternatively, a fixed end collar and an axially slidable collar on each of said bobbin support tube, a plurality of bobbins on each bobbin support tube between the end collars thereon, a plurality of axially slidable intermediate collars on each bobbin support tube, one between each two adjacent bobbins, means constraining the end and intermediate collars on each bobbin support tube to rotate therewith, friction facings on said collars for engaging end faces on the bobbins adjacent them, means for drawing off wires from each group of bobbins alternately, and means for applying a controlled degree of pressure to the slidable end collar on each bobbin support tube for the purpose of exerting a controlled retarding force on each bobbin whilst wire is being drawn off from it and for the purpose of driving it without slip whilst re-winding it.

2,659,193
TWISTING DEVICE
Ede Hegedüs, Zurich, Switzerland, assignor, by mesne assignments, to The Warner & Swasey Company, Cleveland, Ohio
Application March 23, 1949, Serial No. 82,986
Claims priority, application Hungary June 23, 1948
22 Claims. (Cl. 57—77.33)



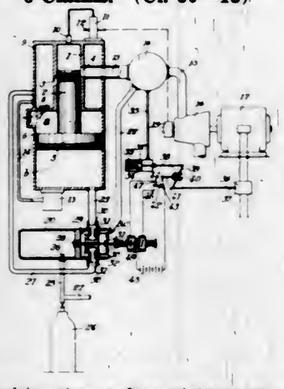
1. A twisting device, comprising a rotary twisting member having an axially extending passageway, a lateral slit extending from said passageway to the periphery of the twisting member and zones of substantially different diameters, bearing means for the said twisting member having at least one open section and supporting the twisting member at at least one zone of lesser diameter, and driving means for rotating said twisting member, said device further comprising at least one means providing a guiding surface relative to which the twisting member rotates, said surface being inclined inwardly toward said passageway and positioned to direct the material to be twisted toward the open section of the bearing and to engage said material when carried around by the slit of the rotating twisting member at the farthest position of the material from the axis of the latter, the said guiding surface and the surface of said slit of the twisting member forming a passage through which the laterally introduced twistable material can travel from the outer periphery of the twisting member to said passageway during the rotation of the twisting member, the outer surface of the twisting member being free from material retaining elements whereby only the lateral slit is adapted to engage and drive the twistable material around with it in the prescribed direction of rotation of the twisting member, so that the twistable material can be introduced at any point of its length, laterally, without threading in a yarn's end, into the rotating twisting member.

2,659,194

REGULATING SYSTEM FOR POWER PLANTS, INCLUDING A FREE PISTON AUTO-GENERATOR AND A RECEIVER MACHINE SUCH AS A TURBINE

Robert Huber, Bellevue, France, assignor to Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., Geneva, Switzerland, a society of Switzerland

Application April 25, 1951, Serial No. 222,789
Claims priority, application France April 29, 1950
6 Claims. (Cl. 60—13)



1. In combination, a free piston auto-generator including a power cylinder and a compressor cylinder fixed with respect to each other, a power piston and a compressor piston freely movable in said cylinders respectively, said two pistons being rigid with each other to form together a moving unit, means for feeding air under pressure from said compressor cylinder to said power cylinder, a discharge conduit leading from said power cylinder, a pneumatic energy accumulator for storing up energy from said moving unit during the power strokes thereof and restoring said energy to said unit during the return strokes thereof and means for feeding fuel to said power cylinder, a receiver machine having its intake connected to said discharge conduit so as to be operated by the gas stream issuing from said power cylinder, means for regulating said fuel feed means in response to variations in the load of said machine, means for varying the mass of air present in said accumulator in response to variations in the working pressure of said auto-generator, and an auxiliary regulating device including a reservoir of gas under pressure and control means responsive to sudden increases in the load of said machine exceeding a given value for placing said reservoir in communication with at least one of the spaces included in said power cylinder air feeding means and said discharge conduit and with said accumulator and responsive to sudden decreases in the load of said machine exceeding a given value for placing at least one of the above mentioned spaces and said accumulator in communication with the atmosphere.

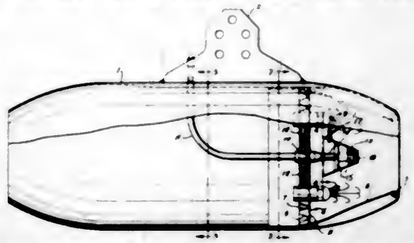
2,659,195

FLAME HOLDER AND FUEL DISTRIBUTING MECHANISM FOR RAM-JET ENGINES

Mirko Bolanovich, St. Louis, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland

Application November 1, 1948, Serial No. 57,762
16 Claims. (Cl. 60—35.6)

3. A jet engine comprising a tubular casing: a plurality of radially spaced open frame flame holders arranged in said casing, one of said holders being circular in shape and the other being rectangular; and means for introducing fuel into said casing ahead of said flame holders.



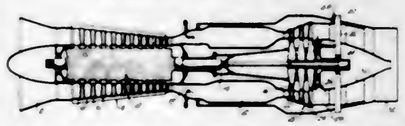
13. A ram jet engine comprising a tubular casing having open rear and forward ends; a v-sectioned flame holder means assembled in said casing near the forward end thereof; and a plurality of fuel discharge nozzles assembled in said flame holder means and arranged for discharging fuel into said casing forwardly of said flame holder and for causing the fuel to burn in close proximity to the interior wall of said casing.

2,659,196

CENTRIFUGAL FUEL SUPPLY MEANS FOR JET ENGINE AFTERBURNERS

William H. Brown, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application August 9, 1949, Serial No. 109,283
1 Claim. (Cl. 60—35.6)



In a fuel supply device for a gas turbine power plant afterburner, the combination of a turbine including a rotor, a duct through which exhaust gases passing through the turbine are discharged, a fuel supply ring mounted on the downstream side of the rotor and rotating therewith, said ring being coaxial with the rotor and having a flange substantially frusto-conical in shape and tending to converge in a downstream direction, two or more circumferential rows of holes around the flange and through which fuel may be discharged into said exhaust duct, the circumferential row of holes nearest the rotor being at the greatest radial distance from the axis of rotation of the ring with the radial distance of the remaining rows being progressively less in a downstream direction so that fuel pressure head in each circumferential row due to centrifugal force is progressively less in a downstream direction and equal radial distribution as well as equal circumferential distribution of fuel in the exhaust duct can be obtained.

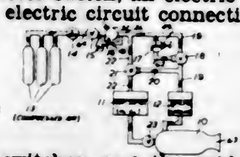
2,659,197

CONTROL SYSTEM FOR ROCKET MOTORS

Frank Bernard Halford, Edgware, Arthur Valentine Cleaver, London, and Ernest Baker Dove, East Barnet, England, assignors to The De Havilland Engine Company Limited, Stonegrove, Edgware, England, a company of Great Britain

Application December 27, 1949, Serial No. 135,284
Claims priority, application Great Britain January 3, 1949
5 Claims. (Cl. 60—35.6)

4. Rocket propulsion apparatus comprising at least one reservoir for propellent liquid, a reaction chamber, a propulsion nozzle extending rearwardly from said reaction chamber, means for injecting propellent liquid from said reservoir into said reaction chamber for gas-producing reaction therein, a solenoid-operated starting valve for initiating the propellent injection, a solenoid-operated check thrust valve, a starting switch, a thrust selector switch, an electric current supply, and an electric circuit connecting said sole-



noids, said switches, and the said supply, and adapted so that when the thrust selector switch is in one position and the starting switch is closed both solenoids are connected to the electric current supply, but when the thrust selector switch is in another position and the starting switch is closed only the starting valve solenoid is connected to the electric current supply.

2,659,198

EXPLOSION-CYCLE INDUCER-DISK VALVE TURBOJET ENGINE FOR AIRCRAFT PROPULSION

Harvey A. Cook, University Heights, Ohio

Application August 4, 1950, Serial No. 177,746
11 Claims. (Cl. 60—35.6)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A turbo-jet engine having an intermittent explosion cycle comprising a body defining an air intake and a jet nozzle, a shaft rotatably supported in said body, a plurality of combustion chambers annularly arranged in said body, a disc rotatable with said shaft at the inlet end of said combustion chamber having sector portions for sequentially compressing air and supplying fuel to and closing off the inlet end of each combustion chamber in sequence, ignition means for each combustion chamber, and a second disc axially aligned with said first disc and rotatable with said shaft at the exhaust end of said combustion chambers, said second disc having sector portions for closing off the chambers while the other disc compresses and supplies fuel thereto and for receiving pressure impulses when the other disc closes the inlets and for opening the exhaust ends while the other disc begins to compress the air into the inlet, in sequence, said first and second discs relatively proportioned and positioned with respect to each other whereby each combustion chamber in turn forms a closed-end cylinder open forwardly for admitting a fuel-air charge, then a closed-end cylinder open rearwardly for explosion, and then an open-ended cylinder at both ends for the passage of scavenging air.

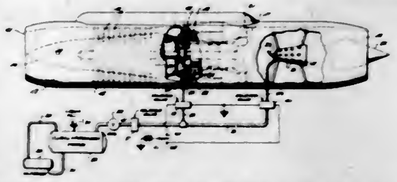
2,659,199

APPARATUS FOR AVOIDING HOT STARTS IN TURBOJET ENGINE OPERATION AND FOR IGNITING FUEL IN THE AFTERBURNER

William O. Thompson, San Francisco, Calif.

Application September 9, 1950, Serial No. 184,002
1 Claim. (Cl. 60—35.6)

An apparatus comprising a turbojet engine mounted in an aircraft, a primary combustion chamber in said engine, an afterburner in said engine, means for supplying normally liquid fuel to each of said primary combustion chamber and said afterburner, a pressure vessel for containing a normally gaseous hydrocarbon in liquid form, selective means for supplying a normally gaseous



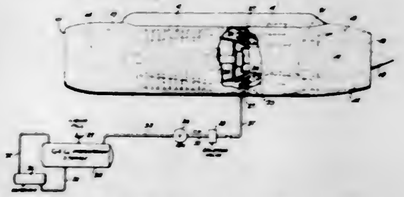
hydrocarbon in vapor form from said pressure vessel to either of said primary combustion chamber and said afterburner, and means for igniting and maintaining independent combustion of said normally gaseous hydrocarbon in either of said primary and secondary combustion chambers.

2,659,200

METHOD AND APPARATUS FOR SAFEGUARDING AGAINST PROLONGED CESSATION OF OPERATION OF TURBOJET ENGINES

William O. Thompson, San Francisco, Calif.

Application August 18, 1950, Serial No. 181,492
9 Claims. (Cl. 60—39.06)



1. The method which comprises reestablishing combustion of a normally liquid fuel in a turbojet engine of a turbojet engine powered aircraft in flight, which combustion has been interrupted during the flight of said aircraft, by providing at a first point in a combustion chamber of said turbojet engine a pilot flame effective to ignite said normally liquid fuel separately introduced at a second point into said combustion chamber, said pilot flame being supported by a normally gaseous hydrocarbon having from 3 to 4 carbon atoms per molecule, said hydrocarbon being supplied in vapor form, at a pressure at least equal to that in said combustion chamber directly to said first point substantially concurrently with, but independently of, the supply of normally liquid fuel to said second point.

9. An apparatus comprising a turbojet engine mounted in an aircraft, a mechanical air-compressor in said engine, a combustion chamber in said engine, means for independently supplying normally liquid fuel and air from said compressor to said combustion chamber, a pressure vessel for containing a normally gaseous hydrocarbon in liquid form, means for separately supplying said hydrocarbon in vapor form from said vessel to said combustion chamber at a point spaced from the point of supply of said liquid fuel to said combustion chamber and at a pressure at least equal to the pressure prevailing in said combustion chamber, and means for igniting and maintaining independent combustion of said hydrocarbon in said combustion chamber to provide a pilot flame effective to ignite said liquid fuel.

2,659,201

GAS TURBINE COMBUSTION CHAMBER WITH PROVISION FOR TURBULENT MIXING OF AIR AND FUEL

Joseph C. Krejci, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware

Application November 26, 1947, Serial No. 788,266
4 Claims. (Cl. 60—39.65)



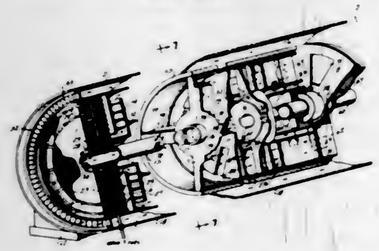
1. A combustion chamber comprising a cylindrical casing having an axial unobstructed air inlet and a fuel inlet at one end of said cylinder to form an axial combustion zone, a housing surrounding said casing to enclose an annular space around it, air inlets longitudinally spaced along said casing and located circumferentially around the housing so that air introduced into the combustion chamber will have in its direction of travel a tangential component, thereby creating around the inside of the combustion chamber a cushion of secondary air for supporting combustion, the said air inlets from the annular air space around the combustion chamber being conduits extending into said annular space, the free ends being circumferentially displaced from the inlets to the combustion chamber.

2,659,202

AUGMENTED THRUST PULSE JET PUMP OR MOTOR AND METHOD OF CREATING AUGMENTED THRUST OR SUCTION

Fay E. Null, Dayton, Ohio

Application June 6, 1950, Serial No. 166,522
32 Claims. (Cl. 60—39.77)
(Granted under Title 35, U. S. Code (1952), sec. 266)



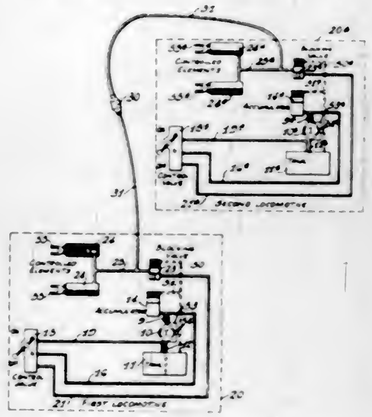
1. In a pulse jet pump or motor, a casing, a turbine driving a rotary air compressing element to supply compressed air for combustion, combustion chambers within said casing to supply in rapid succession explosions at high temperature and pressure to exhaust slugs of gas for thrust or flow purposes, a rotary disc valve adapted to admit fuel and air mixture to said combustion chamber to provide a high frequency, high pressure valve without the vibration and power loss of reciprocating parts, guide plates having long narrow radial ports, said guide plates being located adjacent said disc valve, which is adapted to rotate between said guide plates to close said ports periodically whereby said guide plates carry radial inlet ports for the combustion chambers and serve as guides for flexible rotating valve blades which slide between the guide plates and intercept said ports at periodical intervals, a drive shaft rotatable in said valve and supporting said blades to rotate said valve blade elements, said rotary disc valve and said guide plates, an outer drum rim mounted on said drive shaft to support the outer edges of said flexible valve blades under tension, an inner ring connected to said blades, said blades being attached between said drum rim and said inner ring under tension, said rings being rotatable with said blades, said guide plates being stationary and supported by a stationary tube, and having a groove to receive said ring whereby to form a recess circular channel to carry the ring as it holds the inner edge of the valve blades under tension and rotates with said blades.

2,659,203

HYDRAULIC CONTROL SYSTEM FOR ARTICULATED LOCOMOTIVES AND THE LIKE

Melvin G. Carlson, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application December 30, 1949, Serial No. 136,058
2 Claims. (Cl. 60—52)



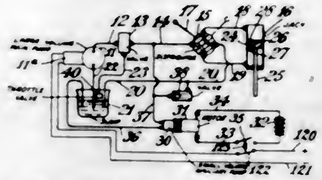
1. In a pair of interconnected hydraulic systems for simultaneously controlling a pair of separate controlled elements from a control station associated with either system; each system including a pump connected to move fluid to one of said controlled elements and wherein said controlled element is operable by the application of increasing pressure from said pump; a control valve between the pump and controlled element; a single conduit interconnecting said systems and connected at each end between the controlled element and the pump of its associated system: the combination in said interconnected systems of a blocking valve located in each of said systems and connected between said single conduit and the control valve of its associated system, said blocking valve comprising a valve casing with a bore therein, and a piston slidable in said bore, said casing having ports therein communicating respectively with the corresponding control valve and controlled element and being arranged so that communication therebetween is blocked by said piston when the control valve of the other interconnected system is actuated, and means biasing said piston to the blocking position.

2,659,204

HYDRAULIC POWER SYSTEM

Hugh Graham Conway, George Orloff, and Roy Fairclough, Gloucester, England, assignors to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland, a corporation of Switzerland

Application November 18, 1950, Serial No. 196,474
2 Claims. (Cl. 60—52)



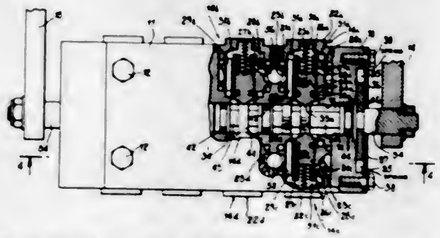
1. In a hydraulic power system including a primary intermittently operative circuit for fluid medium having a main circulating pump and drive motor therefor included therein, a secondary circuit for the fluid medium having an auxiliary pump and drive motor therefor included therein, selectively operable manual means rendering said secondary circuit inoperative when said primary circuit is operative and rendering said secondary circuit operative when said primary circuit is inoperative, and a jack having a cylinder connected to said means and a piston slidable in the cylinder, the provision of means for maintaining the fluid medium in said secondary circuit when operative at a desired working temperature, said last means comprising a leakage channel in the piston, a lift valve in the piston constructed and arranged to close the channel at all positions of the piston other than a predetermined end position in the cylinder, means for lifting said valve when the piston is at said predetermined end position, and a fixed leakage aperture in the cylinder of restricted bore in series with said lift valve.

2,659,205

HYDRAULIC POWER CONTROL UNIT

Benjamin N. Ashton, Kingston, N. Y., assignor to Electrol Incorporated, Kingston, N. Y., a corporation of Delaware

Application May 23, 1951, Serial No. 227,863
11 Claims. (Cl. 60—52)



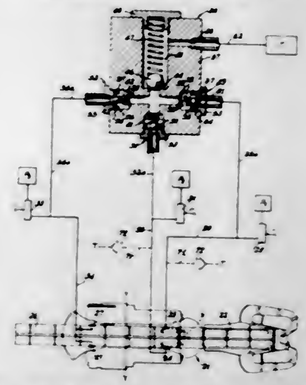
1. In hydraulic apparatus for controlling the flow of fluid in first and second output circuits, each circuit having supply and return lines, means forming a by-pass conduit for receiving a flow of fluid under a pressure differential, first and second by-pass valves connected in series in the by-pass conduit, means connecting the supply and return lines of the first output circuit to the by-pass conduit respectively on opposite sides of the first by-pass valve, means connecting the supply and return lines of the second output circuit to the by-pass conduit respectively on opposite sides of the second by-pass valve, third and fourth valves connected respectively in series with the supply and return lines of the first output circuit, fourth and fifth valves connected in series respectively with the supply and return lines of the second output circuit, first control means for closing the first by-pass valve and opening the third and fourth valves, and second control means for closing the second by-pass valve and for opening the fourth and fifth valves.

2,659,206

MINING MACHINE HYDRAULIC CONTROL SYSTEM AND MASTER SAFETY VALVE THEREFOR

Melvin G. Carlson, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application April 18, 1951, Serial No. 221,663
5 Claims. (Cl. 60—97)



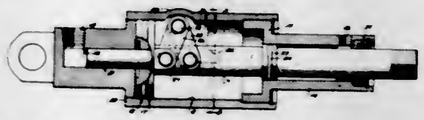
1. In a mining and loading machine having at least a pair of pressure operable use points thereon, means for directing pressure into each of said use points, master safety valve means including relief valve means having a plurality of inlet ports, one of which is connected to each of said pressure operable use points, and check valve means associated with each of said inlet ports and effective to prevent backflow from the relief valve means to the use points.

2,659,207

DIFFERENTIAL CYLINDER WITH TOGGLE LOCK

George B. Marsden, Cicero, Ill., assignor to Chicago Nipple Manufacturing Company, a corporation of Delaware

Application December 26, 1952, Serial No. 328,017
8 Claims. (Cl. 60—97)



1. A differential cylinder comprising a body formed with a first bore and a second bore of smaller diameter aligned with the first bore, a first piston slidable in the first bore, a second piston slidable in the second bore and having an extension projecting slidably through the first piston and adapted to be connected to a load, a connection to supply operating fluid to the second bore at the end thereof remote from the first bore to urge the second piston toward the first bore,

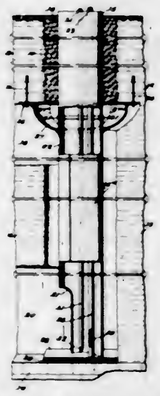
the second piston moving out of the second bore to open the first bore to the connection whereby the first piston will be moved, an extensible linkage connected at its ends to the first piston and the extension to be extended when the second piston moves relative to the first piston, and holding means cooperating with the linkage and made effective by initial movement of the first piston to hold the linkage in its extended condition.

2,659,208
DRAINAGE PILE
André Paul Jourdain, Brussels, Belgium, assignor to Compagnie Internationale des Pieux Armés Frankignoul, Société Anonyme, Liege, Belgium
Application May 22, 1948, Serial No. 28,695
Claims priority, application France October 21, 1947
3 Claims. (Cl. 61—11)



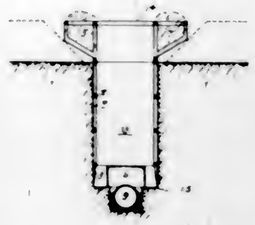
1. A porous draining pile, comprising in combination, a central non-porous core; a porous body surrounding said central non-porous core except the upper portion thereof; a crown arranged above said porous body and surrounding the upper portion of said central non-porous core; and conduits in said crown.

2,659,209
UNDERGROUND LIQUID STORAGE FACILITY AND THE METHOD OF SELECTING AND PREPARING THE SAME
Rex Victor Phelps, Tulsa, Okla., assignor to Warren Petroleum Corporation, Tulsa, Okla., a corporation of Delaware
Application March 23, 1951, Serial No. 217,211
13 Claims. (Cl. 61—40)



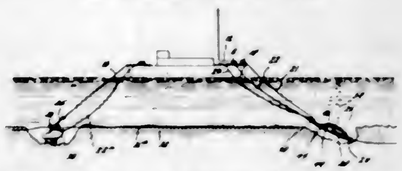
1. An underground storage facility for liquid under pressure, comprising a vertical shaft extending into the ground, a subterranean cavern having an overburden of a depth of at least one foot per pound gauge pressure on the liquid to be stored formed in the ground, extending outwardly from and connecting into said shaft, said shaft leading from said cavern to ground level, a casing, closed at its upper end, lining said shaft and extending to the bottom of said cavern, an opening to the cavern, at the lower end of said casing, means sealing the casing in said shaft, an eductor tube in said casing and having an inlet opening in its lower end, substantially at the bottom of said casing, a discharge conduit connected to the upper end of said eductor tube, and means for discharging liquid from said cavern through said eductor tube.

2,659,210
LINING FOR EARTH CONSTRUCTIONS
Erwin Stengel and Günther Klotz, Karlsruhe, Germany
Application January 10, 1950, Serial No. 137,682
Claims priority, application Germany January 24, 1949
5 Claims. (Cl. 61—41)



1. A lining for earth construction comprising, in combination, an elongated tubular casing of rectangular cross section having opposite open top and bottom ends being made of metal and being formed with a pair of opposite cut outs located in two opposite sides thereof and extending inwardly from the edges of said sides at said open bottom end of said tube.

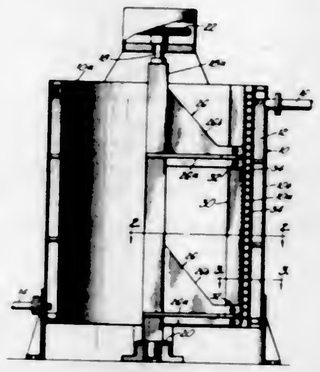
2,659,211
MARINE EXCAVATOR
Pietro Notarbartolo and Carlo Poledrelli, Rome, Italy
Application July 28, 1948, Serial No. 41,164
16 Claims. (Cl. 61—72)



1. The method of recovering a buried submarine cable or pipe which consists in progressively discharging a substantially annular water jet roughly coaxial with the buried cable, raising the free end of the cable, and simultaneously discharging a water jet upwardly and forwardly with respect to the axis of the annular jet so as to remove the overhanging materials of the sea floor above the buried cable.

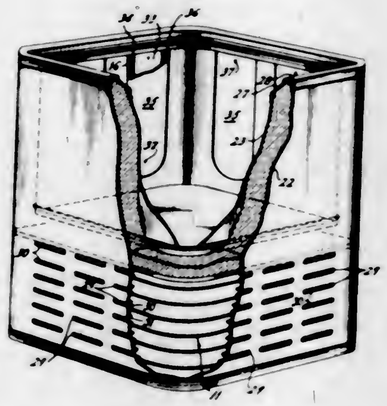
2,659,212
METHOD OF AND MEANS FOR FORMING FLAKE ICE
Gerald M. Lees, Chicago, Ill., assignor to Akshun Mfg. Co., Chicago, Ill., a corporation of Illinois
Application September 8, 1950, Serial No. 183,738
8 Claims. (Cl. 62—106)

1. A knife to remove ice in flakes from a surface to which it is frozen comprising a body of ice cutting material having a substantially straight scoring edge of substantial extent adapted to indent the ice to form a groove as it travels thereover, and a shearing edge tilted in



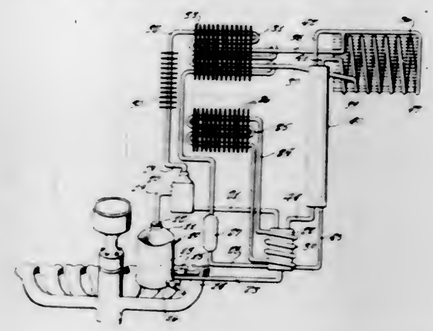
relation to the scoring edge and positioned at its forward part to ride in the groove to apply pressure transverse to the direction of indentation to shear the bond between the ice and the surface to which it is frozen.

2,659,213
REFRIGERATING APPARATUS AND CABINET STRUCTURE
Edward L. Hart, Abington, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application March 15, 1951, Serial No. 215,753
5 Claims. (Cl. 62—117.4)



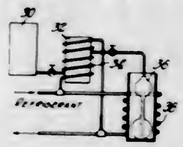
1. A refrigerator comprising a refrigerant circulating system consisting of a motor-compressor and tubing extending continuously from the outlet to the inlet of said motor-compressor, a portion of said tubing being formed into a series of loops defining a condenser, another portion of said tubing being formed into a series of loops defining an evaporator, a cabinet including an outer shell and an inner liner, said outer shell having rows of spaced slots, the shell material along one edge of said slots forming clamps encircling parts of said condenser loops and drawing them into contact with the outer shell, the shell material along the other edge of said slots forming louvers promoting the circulation of air about said condenser loops, said inner liner having spaced reentrant portions defining generally U-shaped grooves into which said evaporator loops are nested, said reentrant portions setting back from the remaining portions of the inner liner, and cover plates overlying said reentrant portions and evaporator loops and lying flush with the said remaining portions of the inner liner.

2,659,214
AUTOMOBILE AIR CONDITIONING UNIT
Harley Lee Coggburn, Big Bear Lake, Calif.
Application September 27, 1952, Serial No. 311,864
5 Claims. (Cl. 62—119.5)



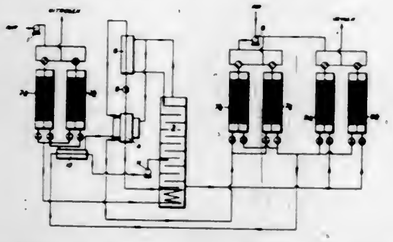
1. In an automobile air-conditioning system of the absorption type, a generator in the circulatory system thereof, said generator comprising a liquid tight housing of refractory material, said housing having a top outlet and a bottom inlet communicating with the system, a pipe of heat conductive material entering said generator at the bottom and extending around the interior thereof, the inlet of said pipe being connected to the exhaust manifold of the automobile and the outlet of said pipe being connected to the intake manifold of the automobile.

2,659,215
METHOD OF MAKING POWER UNITS FOR AMUSEMENT DEVICES
Carl F. Massopust, Ogden Dunes, Ind., assignor to John Burton Tigrett, Chicago, Ill.
Application September 20, 1948, Serial No. 50,063
1 Claim. (Cl. 62—170)



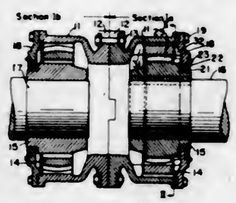
A method of filling a thermodynamic motor consisting of passing a liquefied gas having a boiling point below room temperature from a pressure tank into an expansion chamber chilled below room temperature, passing a measured amount into a hollow member chilled below room temperature from said chilled expansion chamber, permitting the temperature of the liquid in said hollow member to rise until it boils, boiling the liquid until the vapor therefrom purges most of the air from the member, and sealing said member.

2,659,216
PROCESS FOR THE SEPARATION OF GAS MIXTURES
Roger William Herbert Sargent, London, England, assignor to The British Oxygen Company Limited, London, England, a British company
Application August 15, 1951, Serial No. 241,938
11 Claims. (Cl. 62—175.5)



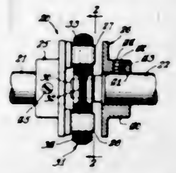
1. A method of separating a gas mixture into a lower boiling point fraction and at least one fraction of higher boiling point which comprises the steps of compressing the gas mixture, cooling the compressed gas mixture to form a saturated vapour by heat exchange with at least part of the fractions produced, condensing at least part of this vapour by heat exchange with the boiling highest-boiling fraction, expanding this condensed mixture and using at least part thereof for liquefying vapour to provide reflux medium, recompressing the evaporated mixture to at least atmospheric pressure, cooling and expanding this recompressed gas mixture to saturation point, separating a stream of the gas mixture into the aforementioned fractions by countercurrent contact in a rectification device with the said reflux medium, and recovering from all cold vapours the cold used for cooling the incoming stream of gas mixture.

2,659,217
UNIVERSAL COUPLING
Howard H. Talbot, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 3, 1947, Serial No. 771,983
5 Claims. (Cl. 64—9)



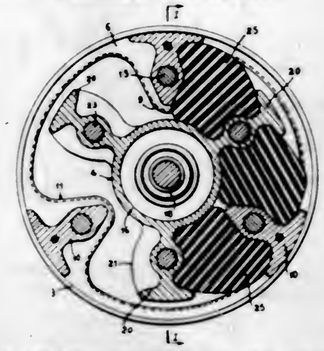
1. A universal coupling for joining together two shafts comprising a casing, a plurality of diametrically opposed axially extending parallel projections, with recesses therebetween, formed within said casing and at either end thereof, a pair of sleeves having a plurality of axially extending projections on the outer surface thereof adapted to be received for slidable movement within said aforementioned recesses, oppositely disposed lugs within said casing for pivotally supporting each of said sleeves and preventing substantial axial movement thereof, a plurality of diametrically opposed axially extending projections, formed on the inner surface of said sleeves and disposed at right angles to said projections on the outer surface thereof, a second pair of sleeves positioned within said first-mentioned sleeves and having a plurality of axially extending projections on the outer surface thereof adapted to be received for slidable movement within said recesses on the inner surface of said first pair of sleeves and means for securing said second pair of sleeves to the opposed ends of said shafts being coupled together.

2,659,218
FLEXIBLE COUPLING
Earl F. Riopelle, Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y., a corporation of New York
Application November 5, 1947, Serial No. 784,114
1 Claim. (Cl. 64—13)



A flexible coupling comprised solely of three unitary parts as follows: duplicate driving and driven members, and a torque transmitting center member disposed therebetween; each duplicate member comprising a unitary flanged element having a disc-like face arranged in confronting relationship to the other flanged element and the confronting faces being substantially flat; a plurality of shouldered studs projecting axially from the confronting flat faces of said flange elements and being formed integrally therewith; said torque transmitting center member defining a flexible connection between said driving and driven members and comprising a unitary integrally molded rubber disc having therein an axial region and a first plurality of regions extending radially therefrom, all of said regions being imperforate and having the same thickness, a second plurality of regions radially beyond said central imperforate region and arranged between said first radial regions and each having an aperture therein, frusto conical annular bosses molded integral with and adjoining said first radial regions, said bosses defining portions which are thicker than the disc central region; the studs on said driving flanged member being entered in snug fitting relationship in diametrically opposite apertures with the adjacent surfaces of said bosses in spaced relationship to the shoulder portions of said studs for permitting free distortion of said flexible unitary center member in response to angular twist of said center member resulting from axial angularity between said driving and driven members, the studs of said driven flanged member being entered in snug fitting relationship in diametrically opposite apertures with the adjacent surface of said bosses in spaced relationship to the shoulder portions of said studs to permit free distortion of said flexible unitary center member in response to angular twist of said center member resulting from axial angularity between said driving and driven members, and the integral imperforate center region of said flexible center member being effective during transmission of torque to directly transmit power diametrically across said center member from the studs of the driving flanged member to the studs of the driven member in planes intersecting each other.

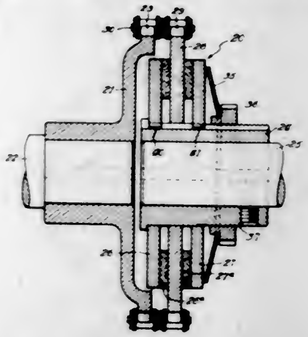
2,659,219
RESILIENT JOINT FOR TRANSMISSION SHAFTS OF MOTOR VEHICLES
Angelo Mosso and Vittorio Montanari, Turin, Italy, assignors to Fiat S. p. A., Turin, Italy
Application June 27, 1950, Serial No. 170,563
Claims priority, application Italy June 30, 1949
3 Claims. (Cl. 64—14)



1. In a resilient coupling for two transmission shafts disposed end to end, spiders on the adjacent ends of said shafts, a coupling member comprising a hub portion and a plurality of arms radiating from said hub, said arms being flanged so as to be H-shaped in circumferential section and being T-shaped, in a section taken perpendicular to the axis of rotation, with the cross bar of the T disposed circumferentially and with holes extending axially through said arms, bolts in said holes securing said coupling member to the spider on one shaft, a second coupling member comprising a pair of rings having circumferentially spaced radially inwardly projecting portions, radially disposed arm portions between the inwardly projecting portions of the rings, said arms and inwardly projecting portions having aligned axial holes, bolts extending through said holes to secure said rings and interposed arms together and to secure the assembly comprising said rings and interposed arms to the spider on the other shaft, the radially inwardly projecting portions of said rings extending beyond the interposed arms in a circumferential direction to provide flanges at the opposite sides of said arms, and rubber blocks held under pressure in radial and circumferential directions between the arms of the first mentioned member and the arms of said second member and being held under compression in an axial direction by said rings and the flanges of said first mentioned arms.

2,659,220
DRIVE TORQUE LIMITING DEVICE
Ralph E. Cherry, Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y.
Application November 12, 1949, Serial No. 126,880
5 Claims. (Cl. 64—19)

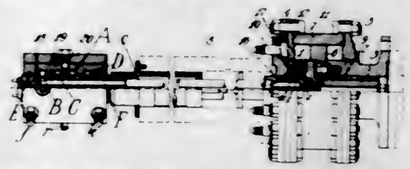
2. A drive torque limiting clutch comprising a first hub mounted on a first shaft for rotation therewith and having sprocket teeth formations, a second hub mounted on a second shaft and having a pair of pressure plates respectively having friction surfaces which have operatively disposed therebetween a sprocket member which is free to rotate upon portions of the second hub under certain conditions, said sprocket member being provided with sprocket teeth formations in alignment with and located in close proximity to the sprocket formations which form a part of the first hub, said first hub and said sprocket member being arranged to rotate together by means of an encircling chain having links arranged to receive the sprocket formations so as to cause simultaneous rotation of each of the sprocket formations and also to provide a flexible coupling arrangement, and a Belleville spring



type washer in contact with at least one of said pressure plates and including adjustment means manually operable to vary the tension of said spring to provide a selected pressure to the pressure plates.

2,659,221
TORQUE TRANSMITTING DEVICE
Edgar Phillips Peregrine, Tynemouth, England, assignor to The Parsons and Marine Engineering Turbine Research and Development Association, Wallsend, England
Application July 8, 1948, Serial No. 37,667
3 Claims. (Cl. 64—26)

1. A fluid torque transmitting device comprising a driving member embodying two sets of vanes, each vane being supported rigidly on said member by one radially extending edge, each vane extending axially and being unsupported at all other edges, a co-axially driven member furnished with a pair of sets of similar vanes, said

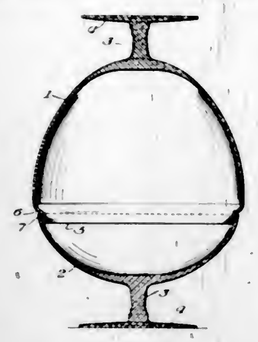


latter vanes lying between said first-mentioned vanes and means for maintaining fluid under two different pressures in the spaces between the vanes at the respective two sides of the vanes on the driving member.

2,659,222
COMPOTIER
William Alfred Meier, Rochester, Pa.
Application August 26, 1950, Serial No. 181,634
1 Claim. (Cl. 65—59)

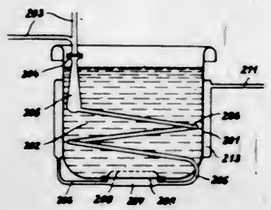
In a compotier, a composite structure comprising upper and lower hollow bowl members adapted to form a closed vessel or to be employed independently of each other, a peripheral rim on one bowl member having angular intersecting surfaces forming a large obtuse angle and defined by two conical surfaces, one an inwardly sloping conical surface and the other an upwardly extending conical surface terminating at the edge of the rim, an annular rim on the other bowl member engaging said conical surface below the juncture of the angular intersecting conical surfaces, means for supporting each member when the latter are disassembled for separate use, said

supporting means for at least one of said members including an integral stem portion and a foot portion on the end of the stem portion spaced from the bowl member, said stem portion



and foot portion requiring only one hand to lift it off its foot portion and invert it to position the second named rim on the angular intersecting conical surfaces of the first named rim on said one bowl member.

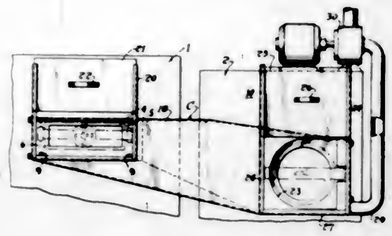
2,659,223
APPARATUS FOR PRODUCING VIBRATIONS IN LIQUID BATHS
Alfred Kärcher, Winnenden, Germany
Application August 14, 1951, Serial No. 241,753
5 Claims. (Cl. 68—3)



1. Device for producing vibrations in a liquid bath comprising a burner of the oscillating gas column type having a discharge means for discharging the combustion gases, a membrane means provided in said discharge means and adapted to transmit the oscillations of the oscillating gas column produced within said discharge means to the liquid bath when immersed in said bath.

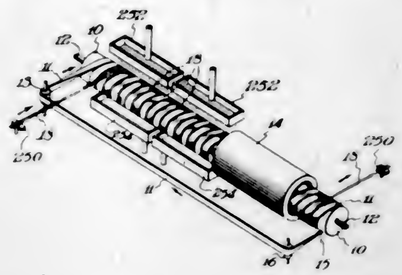
2,659,224
TRANSFER CHUTE FOR CONNECTION BETWEEN DRY CLEANING AND SOLVENT RECOVERY MACHINES
Arlis M. Duncan, Pasadena, Calif.
Application April 18, 1950, Serial No. 156,661
2 Claims. (Cl. 68—18)

1. In a laundering apparatus, including a dry cleaning machine and a solvent recovery machine, an elongated chute closed at its ends and having an opening in a side wall adjacent one of its ends in communication with the door opening of the dry cleaning machine and a second opening in the said side wall adjacent its other end in communication with the door opening of the solvent recovery machine, said chute sloping downwardly from the first door opening to the second door opening, a flue pipe leading outwardly and upwardly from the said other end of the chute immediately adjacent to the bottom thereof to atmosphere, and a power operated



suction fan connected in said flue pipe for exhausting fumes from within said chute.

2,659,225
APPARATUS FOR ADVANCING AND PROCESSING STRANDS
Alvin L. Ewing, Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application October 9, 1947, Serial No. 778,918
5 Claims. (Cl. 68—19)

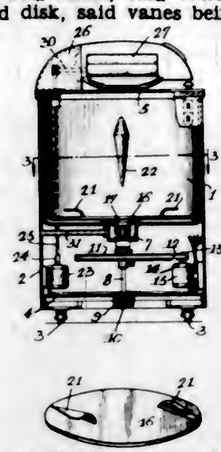


1. Apparatus for advancing filaments which comprises an advancing reel; means for driving said reel; an endless, absorbent and resilient belt helically wound on and helically travelling on said reel by virtue of its inner surface being in driving contact with said reel, its outer surface being free to carry said filaments; guides for directing said belt to and from said reel in an endless fashion; guides for directing said filaments to and from the outer surface of said belt; and means for removing said belt from said reel, said removal means being adapted to be driven at a speed lower than the speed of said reel.

2,659,226
WASHING MACHINE IMPELLER HAVING NONRADIAL VANES
Bruno Pellerin, Shawinigan Falls, Quebec Canada
Application June 2, 1952, Serial No. 291,243
1 Claim. (Cl. 68—133)

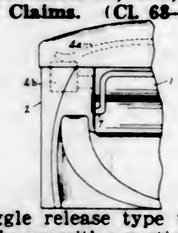
A washing machine comprising a tub, a disk rotatably mounted in the bottom thereof, a vertical shaft extending upward to the lower surface of said disk and fitted non-rotatably therein, vanes on the upper surface of said disk, means

for rotating said shaft, said vanes being nonradial to said disk, said vanes being secured to



the disk on parallel lines, curved through 90°, and semi-ovoid in plan view.

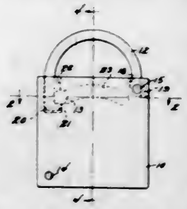
2,659,227
WRINGER
Walter L. Kauffman II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application November 21, 1951, Serial No. 257,579
2 Claims. (Cl. 68—263)



1. In a toggle release type wringer having a roll carrying frame with a vertical side stile at one end, a roll pressure member for withstanding roll separating forces, and toggled links respectively pivoted to the side stile and to the roll pressure member and movable toward a dead center position holding the roll pressure member against the separating force of the roll pressure, the combination of a vertical slide guided on the side stile, latch means on the slide cooperating with one of the toggle links to hold the links in the pressure sustaining position in the region of dead center and movable with the slide to release the links from the dead center position, a pair of release members on opposite sides of the wringer frame each having a crank arm pivoted in the side stile and having a portion engaging the slide, the slide engaging portion of each crank arm respectively extending in opposite directions from its crank arm pivot, a drag link connecting the crank arms, and spring means biasing the slide against the crank arms and yieldably holding the slide in latching position.

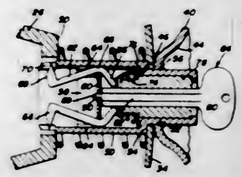
2,659,228
PADLOCK HAVING GRAVITY ACTUATED DETENT
William G. Ducharme, Hartford, Conn.
Application September 20, 1949, Serial No. 116,811
3 Claims. (Cl. 70—20)

1. In a lock of the keyless type, the combination which comprises a lock body having a slot in one end adjacent one side thereof, a recess extended inwardly from the end in which the slot is positioned and an arcuate passage in the interior thereof and communicating with the recess, said recess being positioned adjacent the side of the body opposite to that near which the slot is positioned and said arcuate passage extended across and spaced from the end in which



the slot and recess are positioned, a ball in said arcuate passage, a bail extended from said end of the lock body with one end of the bail pivotally mounted in the slot of the body and with the opposite end positioned to extend into the recess of the body, said bail having a projection positioned to be engaged by the ball in the arcuate passage for temporarily securing the free end of the bail in the body.

2,659,229
HUBCAP WITH LOCKING MEANS
Claude T. Skillman and Mitchell Kistner, Santa Maria, Calif.
Application January 22, 1951, Serial No. 207,122
3 Claims. (Cl. 70—259)

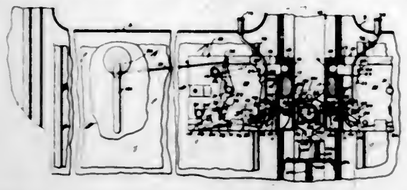


1. A lock assembly comprising a bracket having a central opening, latching means secured to said bracket including a housing having one end located within said opening, a pair of V-shaped members mounted in said one end of said housing, each V-shaped member having an inner and outer end, oppositely projecting latch elements at the outer ends of the members normally engaging the bracket, a transverse plate in said housing, the members pivotally disposed between said plate and the housing, a tumbler lock mechanism secured in the other end of said housing, a compression spring partially surrounding said lock mechanism and bearing on the inner ends of said members and a portion of said housing, said spring urging said inner ends of the members towards each other and the latch elements away from each other, and a key receivable in said lock mechanism to cam the inner ends of said members away from each other and the latch elements toward each other and out of engagement with the bracket.

2,659,230
COINCIDENTAL DOOR LOCKING SYSTEM
Burnie J. Craig, Los Angeles County, Calif.
Application July 7, 1949, Serial No. 103,431
11 Claims. (Cl. 70—264)

1. A coincidental door locking system including a body having a plurality of doors hung

thereon, a bolt on each door, each pivoted bolt being movable to engaged and released positions, a strike for each bolt, the strikes being mounted on the body, means to release each bolt, each release means including a pivoted locking member mounted to move about the axis of its pivot to locked and to unlocked position, a releasing member mounted directly upon the locking member to move on the locking member to re-



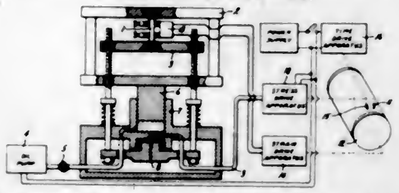
leasing and non-releasing position, means to release each bolt when the associated releasing member is moved when the locking member is turned to one position, means to prevent release of each bolt when the associated releasing member is similarly moved while the locking member is turned to another position about its axis, and moving means to coincidentally move all of the locking members to the unlocked or locked position.

2,659,231
KEY EJECTING DEVICE
Casper Glubiak, New York, N. Y.
Application September 23, 1950, Serial No. 186,385
3 Claims. (Cl. 70—414)



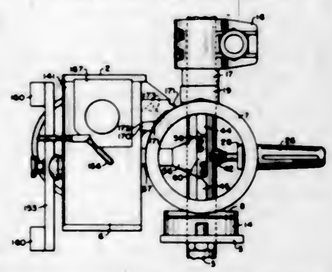
1. A key ejection device comprising an elongated tubular main housing having a bore extending therethrough and having first and second bore openings at opposite ends of said bore, a plug engaging said second bore opening with a diametral bore extending through said plug and said main housing, elongated flexible cable means extending through said diametral bore and maintaining said plug in engagement with said second bore opening, said main housing having a pair of diametrically opposed longitudinal key receiving slots each closed at both ends and adapted for receiving a key body extending into said key receiving slots, with the shank of said key body extending through said main housing bore, sleeve means carried by said tubular main housing and slidable thereon longitudinally, transverse pin means carried by said sleeve means and penetrating into said main housing bore, resilient means disposed in said main housing bore and connected at one end to said transverse pin means and at the other end to said plug, whereby said sleeve means is resiliently biased toward said plug, said tubular main housing having a third longitudinal slot parallel to said key receiving slots and spaced therefrom, fastening means carried by said sleeve means for movement therewith and extending through said third longitudinal slot and into said main housing bore and adapted for engagement with a key when disposed therein for movement with said key and said sleeve means, whereby, when said sleeve means is moved toward said first bore opening, said key shank is extended through said first bore opening in position for insertion into a lock, and whereby, upon release of the force moving said sleeve means said sleeve means is retracted under said resilient bias, carrying said key shank out of engagement with said lock and inside said main housing bore.

2,659,232
APPARATUS FOR MAKING STRESS-STRAIN TESTS
Jack D. Lubahn, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 27, 1949, Serial No. 95,816
7 Claims. (Cl. 73—89)



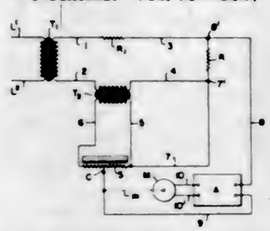
1. In combination with a testing machine for determining the stress-strain characteristics of a test specimen, a drum having a chart-supporting surface, means to rotate said drum by amounts related to the strain of the test specimen, a first writing member, means to translate said first writing member across the chart-supporting surface in the direction of the drum axis by amounts related to the stress applied to the test specimen, a second writing member, means to translate said second writing member across the chart-supporting surface in the direction of the drum axis at a predetermined time rate, and means for simultaneously actuating the first and second writing member translating means in response to actuation of the testing machine.

2,659,233
DYNAMOMETER APPARATUS
Leo Wayne Fagg and Douglas O. Johnson, Tulsa, Okla., assignors to Johnson-Fagg Engineering Company, Tulsa, Okla., a partnership
Application April 28, 1951, Serial No. 223,610
7 Claims. (Cl. 73—141)



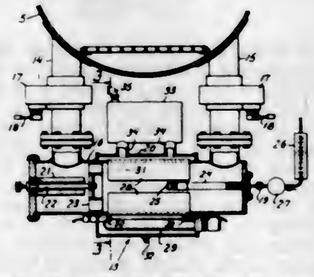
1. In a dynamometer comprising a bifurcated elastic ring providing two ring portions to receive a compressive force along one diameter thereof, a lever extending into the ring at right angles to the center line of the ring, a pair of struts connected to the inner periphery of each portion of the ring at substantially diametrically opposed points and extending inwardly in the ring along said one diameter thereof, a thinned portion in each of said struts parallel to the center line of the ring, means for connecting the free ends of said struts in a substantially perpendicular position to the lever to one end of the lever in spaced parallel chordal planes whereby upon compression of the ring the struts are bent at said thinned portions to pivot the lever about the center line of the ring, and a recording mechanism connected to the opposite end of the lever.

2,659,234
TEMPERATURE MEASURING APPARATUS
Thomas R. Harrison, Wyncote, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 14, 1949, Serial No. 127,215
6 Claims. (Cl. 73—362)



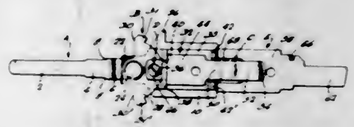
1. Apparatus comprising in combination a temperature responsive resistor for exposure to a temperature to be measured, a comparison resistor, a transformer having a primary winding and a secondary winding, conductor means connecting one of said resistors and one of said transformer windings in an energizing circuit including terminal conductors for connecting said circuit to a source of alternating current, conductor means connecting the second of said resistors and the second of said windings in a circuit in which the current flow is proportional to the current flow in said energizing circuit, means connected in a circuit effectively including in series said temperature responsive resistor and at least a portion of said comparison resistor, the last mentioned means being operative to compare the potential drop in said temperature responsive resistor with the potential drop in said portion of said comparison resistor, and a utilization device cooperating with said last mentioned means and including a member positioned in accordance with the difference between said potential drops and hence in accordance with the resistance of said temperature responsive resistor.

2,659,235
EXPLOSIVE ATMOSPHERE TEST CHAMBER
Merrill E. Storer, Rochelle Park, N. J., assignor to Janke and Company, Hackensack, N. J., a corporation of New Jersey
Application February 16, 1952, Serial No. 271,907
7 Claims. (Cl. 73—432)



1. Apparatus for establishing in an explosion-proof test chamber a uniform atmosphere composed of an explosive mixture of the vapor of a combustible liquid and a combustion-supporting gas which comprises said test chamber, a vaporizing chamber, two conduits communicating between spaced portions of the test chamber and of the vaporizing chamber, circulating means for circulating the combustion-supporting gas through a closed path including (*a*) the vaporizing chamber, (*b*) one of said conduits, (*c*) the test chamber and (*d*) the other conduit back to the vaporizing chamber, liquid injection means for injecting a spray of the liquid into the circulating stream of combustion-supporting gas, and a plurality of heat exchange elements projecting into the interior of the vaporizing chamber and adapted to impart vaporizing heat for the liquid injected into the stream of gas flowing through the vaporizing chamber.

2,659,236
PUSH-BUTTON STRUCTURE
Earl H. Allen, Westfield, N. J., assignor to General Instrument Corporation, Elizabeth, N. J., a corporation of New York
Application October 9, 1950, Serial No. 189,229
13 Claims. (Cl. 74—10.33)

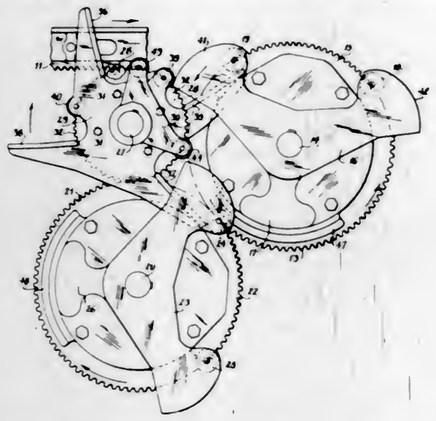


1. In a tuning structure for a radio set, a movable support, an adjustable setting device articulately mounted thereon, a clamp pivotally mounted on said support, one end of said clamp being directed toward said setting device, a screw adjustably threadedly received in said end, extending therefrom toward said setting device, and adapted to exert locking pressure on said setting device when said clamp is appropriately moved, a leaf spring mounted on said support and having a portion interposed between said screw and said setting device, said spring being biased to urge said screw away from said setting device, and an auxiliary member including a pushbutton operatively connected to said clamp and effective, when said auxiliary member is moved in a given direction with respect to said support, to force said clamp to move on said support in a direction such as to press said screw toward said setting device against the action of said leaf spring and lock said setting device in adjusted position, said screw being adjustable to vary the degree to which it depends from said clamp so as to regulate the pressure applied thereby on said setting device and so as to press said leaf spring lightly against said setting device when said auxiliary member is not moved in said given direction.

2,659,237
REVERSING DRIVE MECHANISM
James R. Wood, Cleveland, Ohio, assignor to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware
Application July 22, 1952, Serial No. 300,272
12 Claims. (Cl. 74—27)

1. In combination, a reverse motion shaft, gear teeth carried by said shaft, a forward motion shaft and a rearward motion shaft turning at the same speed in opposite directions, gear sectors on each of said forward and rearward

motion shafts adapted to mesh with the gear teeth on said reverse motion shaft for turning the latter shaft in opposite directions at different times in the cycle, said reverse motion shaft carrying spaced cam shoes extending outwardly from the shaft, said forward motion shaft carrying two rollers cooperating with certain of said shoes for accelerating said reverse motion shaft in the forward direction prior to the meshing of its gear teeth with the sector on said forward



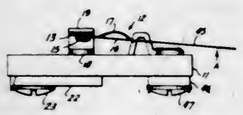
motion shaft and for decelerating said reverse motion shaft after said sector leaves said gear teeth, and said rearward motion shaft carrying two spaced rollers cooperating with certain of said shoes for accelerating said reverse motion shaft in the reverse direction prior to the meshing of its gear teeth with the sector on said rearward motion shaft and for decelerating said reverse motion shaft after said sector leaves said gear teeth.

2,659,238

SNAP ACTING MECHANISM

Wilbert A. Martin, Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application October 15, 1949, Serial No. 121,597
13 Claims. (Cl. 74—100)



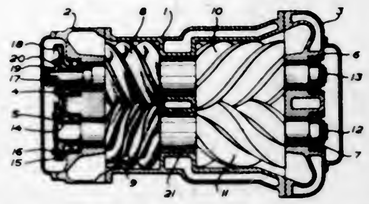
1. In a snap acting device, the combination of opposed stops, spaced resilient tension members interconnected at one end to form an end free to move between said stops with a snap action, a compression member having one end connected with said free end, means for pivotally supporting the opposite end of the compression member, a tang pivotally supported in fixed spaced relation to the pivotal support for the compression member to form a snap spring system having an axis of maximum stress, said tang interconnecting the opposite end of the tension members and being movable between opposed positions, movement of the tang between said positions effecting storage of energy in the tension members and flexing them through the axis of maximum stress to move said free end between said stops with a snap action.

2,659,239

INDEPENDENT SYNCHRONIZATION

Hans Robert Nilsson, Stockholm, and Sven Ivar Truisson, Enskede, Sweden, assignors, by mesne assignments, to Jarvis C. Marble, New York, N. Y., Leslie M. Merrill, Westfield, N. J., and Percy H. Batten, Racine, Wis., trustees

Application September 27, 1950, Serial No. 186,946
Claims priority, application Sweden
October 7, 1949
13 Claims. (Cl. 74—395)



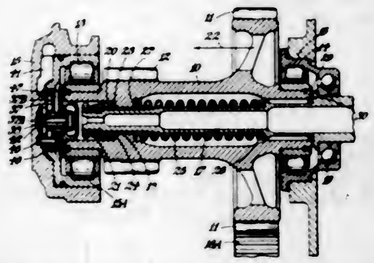
1. A rotary device having at least two cooperating rotors, each comprising a shaft part and at least two rotor bodies carried by the shaft part, each of said rotors including at least one rotor body fixed relative to the shaft part of the rotor, one of said rotors including a rotor body angularly adjustable relative to the shaft part of the rotor, synchronizing means connecting said shaft parts to turn the rotors in timed relation to each other and adjustable means for holding said adjustable rotor body in selected angular relation to the shaft part of the rotor of which said adjustable rotor body comprises a part.

2,659,240

HYDRAULIC THRUST BALANCING DEVICE

Arthur Alexander Rubbra and Lionel Haworth, Littleover, Derby, England, assignors to Rolls-Royce Limited, Derby, England, a British company

Application September 4, 1951, Serial No. 245,052
Claims priority, application Great Britain
September 6, 1950
12 Claims. (Cl. 74—410)



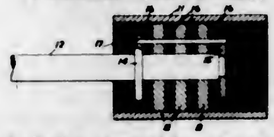
1. A shaft thrust-balancing device of the kind specified comprising in combination a stationary structure having a cylinder provided in it, a shaft having an axially facing surface on it, which shaft has an axial load on it in normal operation, bearing means in said stationary structure and supporting said shaft with limited axial freedom with respect to said stationary structure, a piston element slidably accommodated in said cylinder and having an axial facing surface on it cooperating with said axial facing surface on said shaft, pressure liquid supply means to said cylinder on the one side of said piston element remote from said axial facing surface to supply liquid under pressure to load said co-operating axial facing surfaces together, an outlet port from said cylinder on said one side of said piston element, co-operating valve means to co-operate with said port to vary the area thereof, said co-operating valve means being connected to move with said piston element whereby the area of said port is adjusted to be dependent on the position of said piston element in said cylinder, and lubricant supply means to supply liquid under pressure between said axially facing surfaces said lubricant supply means comprising a second outlet port from said cylinder on said one side of said piston and a duct leading from said second outlet port to between said axially facing surfaces.

2,659,241

SCREW AND NUT MECHANISM

Herbert Edward Holman, West Drayton, England, assignor to Electric & Musical Industries Limited, Hayes, England, a British company

Application August 9, 1951, Serial No. 241,123
Claims priority, application Great Britain
August 18, 1950
7 Claims. (Cl. 74—459)



1. A nut device comprising at least three individual co-axial nuts each provided with a helical thread, mounting means including rigidly spaced-apart end members, said nuts being positioned between said end members in spaced-apart and axially movable relationship relatively to one another and to said end members, means holding said nuts against rotational movement relatively to said end members, and resilient means disposed between adjacent nuts and between each end member and the nut adjacent thereto to hold said nuts and said end members in said spaced-apart relationship and to provide a restoring force opposing relative axial movement.

2,659,242

SEAL FOR VALVE ACTUATORS

Harry K. Blanning, Chicago, Ill., assignor, by mesne assignments, to International Steel Company, Evansville, Ind., a corporation of Indiana

Application December 30, 1948, Serial No. 68,359
1 Claim. (Cl. 74—503)



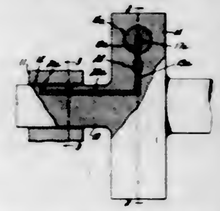
Locking means for rod members comprising in combination with a rod housing, a rod member slidably retractable into and projectable from said housing in a linear direction, said rod member terminating in a handle extending transversely with respect to said rod member and projecting beyond the limits of said housing, a bracket attached to said housing and having a yoke extending therefrom, a flat leaf member swingably mounted in said yoke and movable from a pendant position adjacent said housing to a position extending substantially parallel to one side of said housing and beyond the end thereof, said flat leaf member being apertured in spaced positions for receiving the protruding end of said transversely extending linear handle member in selected positions determined by the spacing of the apertures in said flat leaf member and means extending through the protruding end of said linear handle member on the side of said flat leaf member remote from said housing for maintaining said hinged leaf member in engaged position with respect to said linear handle.

2,659,243

APPARATUS FOR AUTOMATIC BALANCING OF ROTATING BODIES

Georges Darrieus, Houilles, France, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a joint-stock company

Application June 27, 1952, Serial No. 296,023
Claims priority, application France July 5, 1951
14 Claims. (Cl. 74—573)



1. Apparatus for automatically balancing a body mounted for rotation about its axis comprising a balancer member containing a plurality of arcuate chambers positioned symmetrically and concentrically about the axis of said body, each said chamber having a solid balancing mass therein movable along the arcuate path defined by the chamber, means for developing fluid pressure differentials about the axis of rotation of said body proportional to any unbalance in said body, and means applying said pressure differentials to said balancing masses at opposite sides thereof in said chambers to effect displacement of said masses in a direction restorative of balance.

2,659,244

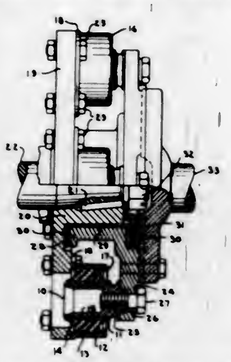
COMBINED RESILIENT COUPLING AND VIBRATION DAMPENER

Frederick M. Guy, Detroit, Mich., assignor to U. S. Universal Joints Company, Detroit, Mich., a corporation of Michigan

Application September 16, 1949, Serial No. 115,998
2 Claims. (Cl. 74—574)

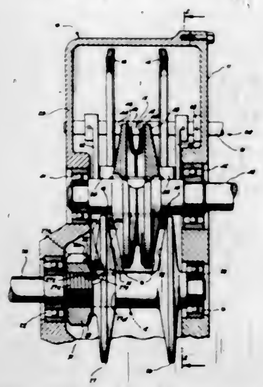
1. In combination, an engine having a crankshaft, an engine flywheel in engagement with said crankshaft, a propeller shaft operatively coupled with said engine flywheel; a combined resilient coupling and vibration dampener including a connector member connected to the free end of said propeller shaft, resilient coupling means affixed to said connector member, and a carrier member affixed to said resilient coupling

means, and a differential construction including a driving axle pinion which is in mesh with a driving ring gear, said pinion being mounted on



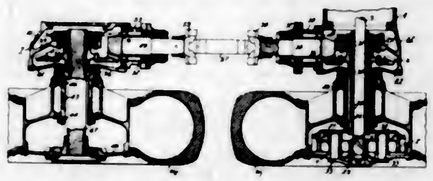
a shaft which is rigidly connected with said carrier member and rotatable therewith, the carrier member of said combined resilient coupling and vibration dampener having its mass concentrated at its outer rim to provide a large moment of inertia in order that said carrier will absorb surges from the engine and hold the driving pinion in meshed engagement with the driving ring gear.

2,659,245
SPEED CHANGE TRANSMISSION
Peter J. McLaren, deceased, late of New York, N. Y., by The Hanover Bank, formerly Central Hanover Bank and Trust Company, corporate executor, New York, N. Y., and Harry E. Hansen, coexecutor, assignors to The W. L. Maxson Corporation, New York, N. Y., a corporation of New York
Application August 4, 1951, Serial No. 240,302
8 Claims. (Cl. 74—690)



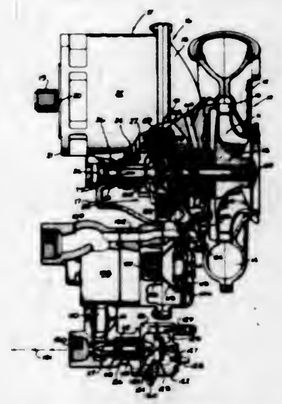
1. An infinitely variable speed change transmission comprising a driving cone, a driven cone mounted with its axis parallel to the axis of said driving cone, a power transfer ring between said cones and having its sides in frictional, drive-transmitting engagement therewith, and means engaged with the inner and outer faces of a limited sector of the ring and movable in the plane of the ring and transversely of the common plane of the cone axes for tilting said ring in its own plane to induce the ring to be fed by the cones to a new position radially of the cones, and thereby to change the speed ratio between said cones.

2,659,246
TANDEM DRIVE MECHANISM
Emil F. Norelius, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 25, 1949, Serial No. 83,361
24 Claims. (Cl. 74—710)



1. A differential and drive gearing for a pair of vehicle wheels comprising, in combination, an epicyclic gear train of the type in which three relatively rotatable power transmitting elements forming a sun gear, a countergear and a spider, respectively, are operatively interconnected by planet pinion means on said spider and in which said sun gear, countergear and planet pinion means are constructed so that the gear ratio between a first and a second of said power transmitting elements, at zero speed of the third power transmitting element, is different from unity, a rotatable drive shaft connected in driving relation with said third power transmitting element, a driving connection, independent of said first and third power transmitting elements, between said second power transmitting element and one of said vehicle wheels, and fixed ratio gearing connecting said first power transmitting element in speed changing driving relation with the other of said vehicle wheels, said fixed ratio gearing being constructed so as to afford a gear ratio between said first power transmitting element and said other vehicle wheel equal, or substantially equal, to the gear ratio which exists between said first power transmitting element and said one vehicle wheel at zero speed of said drive shaft.

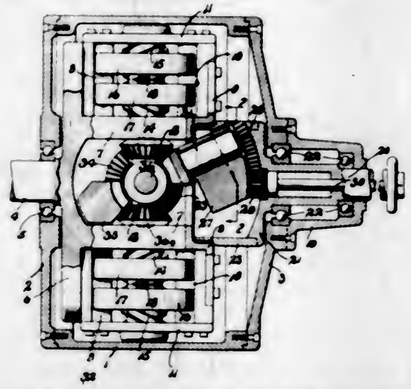
2,659,247
COMPRESSOR AND DRIVE
Homer J. Wood, Sherman Oaks, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application June 14, 1951, Serial No. 231,600
7 Claims. (Cl. 74—740)



1. In a drive for a compressor: a support; an output member projecting from said support for

connection to the compressor which is to be driven; a transmission connected to said output member so as to drive the same; and a transmission arranged to drive said first named transmission, one of said transmissions comprising a shaft supported for rotation, a cylindrical member surrounding a portion of said shaft, bearing means supporting said cylindrical member on said shaft, a second cylindrical member surrounding a portion of said first cylindrical member, bearing means between said cylindrical members, a transmission gear on one of said cylindrical members, a transmission gear of another size on the other of said cylindrical members, and clutch means for selectively connecting said cylindrical members to said shaft.

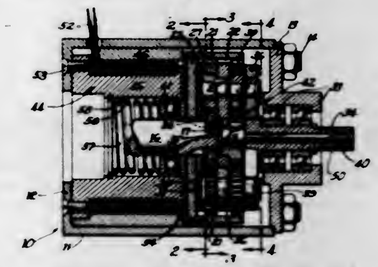
2,659,248
TRANSMISSION
Bertrand F. Kenyon, Grand Rapids, Mich., assignor to Mechano Gear Shift Company, Grand Rapids, Mich., a corporation of Michigan
Application November 16, 1951, Serial No. 256,715
14 Claims. (Cl. 74—751)



1. In a mechanism having aligned driving and driven shafts, a torque arm connected with the driving shaft for universal angular movement relative thereto, adjustable cooperating means relatively connecting said torque arm to one end of the driven shaft, said torque arm being adjustable from a position in alignment with the driving and driven shafts, to an indefinite number of positions at angles to the axis of the driving and driven shaft, the improvement comprising, a rotatably mounted shaft located at right angles to the driving shaft, connections between the torque arm and said right angularly disposed shaft for rocking said last mentioned shaft about its longitudinal axis in alternately opposite directions when the torque arm is at an angle to the driving shaft, and members geared on said right angularly located shaft movable toward and away from each other as said shaft is rocked in opposite directions.

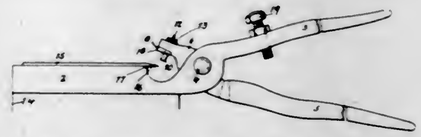
2,659,249
TWO-SPEED PLANETARY TRANSMISSION
William F. Carr, Grand Rapids, Mich., assignor to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application April 6, 1950, Serial No. 154,325
6 Claims. (Cl. 74—785)

1. A two-speed power transmission comprising in combination a housing; a planetary gear train carried therein; a power input shaft secured to an input sun gear of the train; said train including a ring gear carried by and rotatable with a disc-like support; planetary gears and carriers therefor; a power output shaft secured to the final one of said carriers; a friction member interposed between said ring gear support and one set of planetary gears; means for biasing said support including its ring gear,



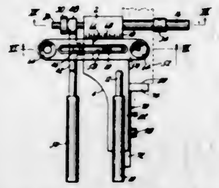
said member and said planetary gears into frictional contact for joint rotation for one-to-one normal transmission of power; and means including a solenoid effective jointly with said ferromagnetic portion which, upon energization, will attract said portion to override said biasing means and to fix said support and ring gear for normal operation of the planetary gearing for low speed transmission of power.

2,659,250
CROSSCUT SAW-SET
Frederick F. Polier, Sr., Moberly via Golden, British Columbia, Canada
Application December 26, 1951, Serial No. 263,276
1 Claim. (Cl. 76—64)



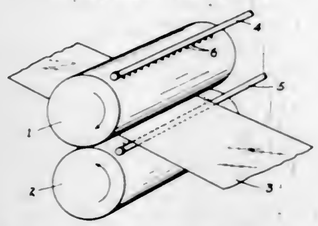
A cross-cut saw-set comprising an anvil having an horizontal under side parallel to the upper side thereof and adapted to rest on a bench thereby ensuring that the blade of the saw will be held in a horizontal position on said bench when the teeth are being set; an arm integrally formed with said anvil and extending longitudinally thereof, the anvil being provided in its upper side with a recess; a lever pivoted to said arm and provided with a pressure-block positioned in alignment with said recess and provided longitudinally with a slot; a longitudinally-slotted stop-plate having its outer side inwardly sloped upwardly from its lower end to provide clearance with the end of a tooth when the pressure-block is brought into contact with a tooth to set it, a metal plate, longitudinally slotted from its inner end, secured to the under side of said pressure-block with its slot in alignment with the slot in said pressure-block, the under side of said metal plate sloping upwardly-inwardly from its outer end towards its inner end; a neck carried by said stop-plate and adapted to have only a sliding fit in the slot in said metal plate; a threaded stem for said neck extending through said metal plate and said pressure-block, and a nut on said stem to clamp said stop-plate in set position.

2,659,251
DRILL JIG
James H. Wheeler, Kansas City, Mo.
Application January 16, 1953, Serial No. 331,683
9 Claims. (Cl. 77—62)



1. A drill jig comprising a body member having a planar base surface and a planar work-engaging surface rising perpendicularly from said base surface, a clamping block carried by said body member for movement toward and from said work-engaging surface, whereby a work piece may be clamped therebetween, manually operable means carried by said body member for moving said block, a bar carried for longitudinal adjustment by said body member and extending parallel to said base surface and outwardly from said work-engaging surface, a drill bushing carried by said bar, the axis thereof being perpendicular to said base surface, and a guide member carried by said body member for adjustable movement along said work-engaging surface in a direction parallel to said base surface, said guide member extending outwardly from said work-engaging surface.

2,659,252
FABRICATION OF LIGHT METALS
Egbert M. Kipp, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 9, 1952, Serial No. 286,883
11 Claims. (Cl. 80—60)



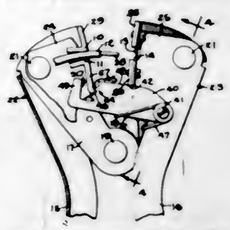
1. In a process of shaping the light metals, aluminum, magnesium and alloys containing at least 70% by weight of one of such metals, in which the light metal is worked, deformed, cut or otherwise altered in size or section by the action of a tool, the improvement consisting in controlling tool contamination and the effects thereof by supplying at the interface of the tool and light metal a composition containing a stable substance, the essential active constituent of which is a boron-fluorine combination selected from the group consisting of BF_3 and BF_4, in an amount sufficient to provide at least 0.01% by weight of said boron-fluorine combination with respect to the total weight of the composition applied to the light metal-tool interface, said substance being selected from the group consisting of MBF_4, $RHBF_4$ and $X{\cdot}BF_3$, where M represents an element or radical selected from the group consisting of the metals and the ammonium radical, R represents a basic nitrogen-containing organic compound and X represents a compound selected from the group consisting of basic nitrogen-containing organic compounds and organic oxy compounds, said substance being stable under operating conditions until called upon to deliver the said boron-fluorine combination to the light metal-tool interface, substantially as described.

2,659,253
APPARATUS FOR BREAKING FRANGIBLE SUTURE TUBES
George H. Myrick, Rochester, Minn.
Application December 7, 1949, Serial No. 131,614
3 Claims. (Cl. 81—3)



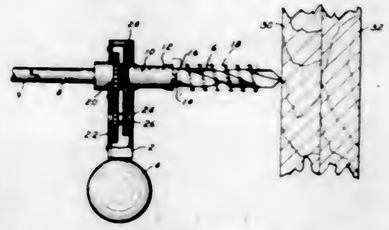
2. A device for breaking frangible suture tubes of the type provided with a score line intermediate the ends thereof to facilitate breaking, comprising a pair of hollow tubular sections each having a closed end and an open end, hinge means connected to the adjacent open ends of said sections and having a transverse hinge axis in close proximity to the open ends of the sections for pivotally interconnecting said sections adjacent open ends thereof, said hinge means movably securing said sections for movement into one extreme position wherein said sections are in substantial coaxial relationship with the adjacent ends thereof in abutting relation and into another extreme position wherein the sections are at a substantial angle relative to each other thereby to make accessible the open ends of the sections for insertion of a suture tube into one of the sections, one of said sections having a stop therein to limit the depth to which a suture tube may be inserted therein and to position the score line of the tube opposite the axis of said hinge means, and the other of said sections having a length sufficient to cover the remainder of the tube when it is positioned in said section alone to enable the tube to be placed in it and to enable the two sections to be moved into said coaxial relationship, said tube being movable from said one section so as to be partly in both when said sections are in said coaxial relationship, and said sections being manually graspable for moving said sections out of coaxial alignment whereby a suture tube disposed partially within each section is broken along the score line thereof.

2,659,254
WIRE STRIPPER
Stuart G. Wood, Rockford, Ill., assignor to Rockford Wire Stripper Co., Rockford, Ill., a corporation of Illinois
Application February 14, 1951, Serial No. 210,804
9 Claims. (Cl. 81—9.5)



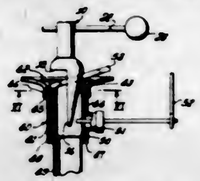
1. A wire stripper comprising two arms pivotally connected at one end and diverging toward their free ends, elongated handles pivoted at one end on said free arm ends and having short lateral extensions projecting toward each other adjacent the handle pivots, holding and stripping jaws mounted on said arms and extensions and coacting during squeezing of said handles together to grip one portion of a wire and cut and strip the covering from an end portion of the wire, and a single piece of spring wire having end portions engaging said arms and said handles and acting on said arms and between said arms and handles to urge the arms toward each other and each of the handles outwardly relative to its supporting arm.

2,659,255
DEVICE FOR APPLYING THREADED SCREWS OR BOLTS
Joseph D. Bates, deceased, late of West Springfield, Mass., by Josephine A. Bates and Henry C. Avery, executors, West Springfield, Mass., assignors to Josephine A. Bates, West Springfield, Mass.
Application March 19, 1952, Serial No. 277,502
3 Claims. (Cl. 81—57)



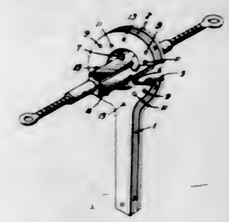
1. A device for simultaneously boring a hole and applying a hollow, threaded screw as a lining for the hole, comprising a drill for boring the hole, a cylindrical member closely surrounding the drill and mounted for rotation relatively thereto and extending over only a part of the length of the drill leaving the entering end part thereof free to receive a hollow threaded screw, means formed on the leading edge of said cylindrical member for engaging a hollow externally threaded screw mounted on the drill to rotate the same when the cylindrical member is rotated, and means connecting the drill and the cylindrical member to cause the cylindrical member to be rotated at a speed different from that of the drill.

2,659,256
SPANNER TYPE STRAINER WRENCH
Joseph J. Palmer, Arcadia, Calif.
Application August 27, 1951, Serial No. 243,873
3 Claims. (Cl. 81—90)



1. A self-aligning strainer wrench for plumbing fixtures comprising: an elongated shank portion; an enlarged partially spherical section formed at one end of the shank portion and terminating in a circular peripheral margin lying in a plane transverse to the axis of the shank portion; two longitudinally extending members integrally formed with a virtually semicircular portion of said section and lying to one side of a longitudinal plane passing through the axis of said shank, said members lying in spaced relation and having opposed flat parallel faces defining a slot adapted to receive therebetween a web portion of a strainer assembly, each member being of sector shaped cross-section diminishing in area from the circular peripheral margin of the spherical section towards its extremity; said members having curved surfaces adapted to contact end edges of a strainer pipe to align said wrench in upright position, the other end of the shank portion having a transverse port slidably receiving a holding rod, said holding rod carrying a yieldable element at one end for contact with a wall of a fixture for holding the wrench and strainer assembly against rotation.

2,659,257
TURNBUCKLE WRENCH
Garrie Thompson, Berkeley, Calif.
Application January 15, 1951, Serial No. 206,054
1 Claim. (Cl. 81—91)

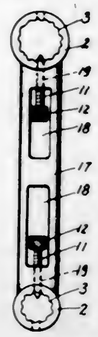


In a wrench of the character described, a head having a central opening and a gap in the periphery thereof forming an entrance for a turnbuckle, a plurality of spaced pawls pivoted in said head and having portions projecting circumferentially into said opening for engaging the respective corners of a turnbuckle positioned within said opening, abutment elements to hold said pawls against movement from said projecting position when said wrench and turnbuckle are turning as a unit in one circumferential direction, and means to resiliently urge said pawls into said projecting position, said head having space therein to receive said pawls when said pawls are swung outwardly from said opening and away from said abutment elements by turning said wrench around said turnbuckle in the opposite circumferential direction in order to obtain a fresh grip on the turnbuckle, and said pawls being pivoted in opposite pairs and on diameters of the central opening which extend generally at about forty five degrees with respect to a diameter of the central opening that bisects said gap.

2,659,258
BOLT-HOLDING BOX WRENCH
James Dillard, Cincinnati, Ohio
Application May 20, 1952, Serial No. 288,850
1 Claim. (Cl. 81—125)

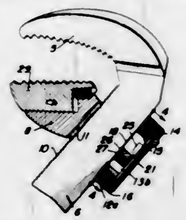
A flat wrench for tightening a nut on a bolt, said wrench comprising a rectilinear handle having a hollow boss in at least one of the extremities thereof, a surrounding interior wall surface of said hollow boss being provided with serrations to inhibit the rotation of said nut in relation to said handle, a slot in said handle communicating

with said hollow boss by means of a threaded hole, a set screw rotatably mounted in said threaded



hole and said slot to engage said nut so as to secure said wrench on said nut.

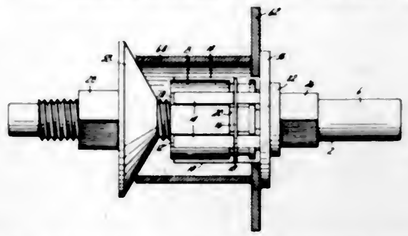
2,659,259
SLIDING JAW LATCH FOR WRENCHES
Roger T. Jones, Batesville, Ark.
Application June 28, 1951, Serial No. 233,976
1 Claim. (Cl. 81—142)



A quick adjustable wrench comprising a shank having a fixed jaw projecting laterally at the front edge of the shank, a slidable jaw including a slide slidable on the shank, said shank and said slide having opposing teeth at the front edge of the shank, a U-shaped clip secured to the sides of the slide and positioned behind the latter, spring means between the shank and slide and exerting rearward movement on the latter to hold the teeth engaged, a locking block slidably carried by the slide behind the shank, a resilient metal strip between the shank and block, a sliding lock carried by the clip, and means actuated by the sliding lock and having wedging engagement behind the block to frictionally lock the strip to the shank.

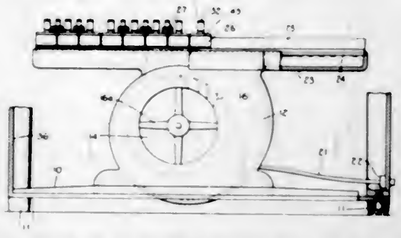
2,659,260
WORK HOLDING TOOL
Mark B. Layne and Lawrence L. Held, Higginsville, Mo.
Application April 11, 1949, Serial No. 86,734
7 Claims. (Cl. 82—44)

5. A work holding tool comprising a mandrel having an end portion adapted to be held by a gripping tool, a cylindrical body member threaded on said mandrel coaxially therewith, said body member having a plurality of peripherally spaced longitudinal grooves formed in the surface thereof, said grooves being of uniformly tapered depth, an elongated wedge carried slidably in each of said grooves and extending outwardly from the deeper end of said grooves, a face plate of larger diameter than said body member threaded on said mandrel and abutting against the extended ends of said wedges, a second face plate threaded on said mandrel adjacent the opposite end



of said body member, and a cylindrical sleeve disposed about said body between said face plates.

2,659,261
PORTABLE MUSICAL INSTRUMENT
Finn H. Magnus, Essex Fells, and Emil J. Ens, Newark, N. J., assignors to Magnus Harmonica Corporation, Newark, N. J., a corporation of New Jersey
Application August 8, 1950, Serial No. 178,202
6 Claims. (Cl. 84—351)

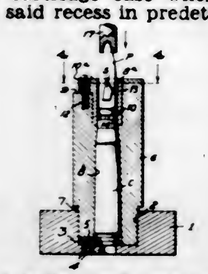


1. A portable musical instrument of the type employing a reed plate having a series of spaced vibratable reeds thereon, an electrically operated blower having an outlet communicating with said reeds and manually operable keys for controlling the passage of air from the blower through the respective reeds that is characterized by a housing enclosing said blower and said reed plate and reeds, said housing having openings therein for the passage of air into and out of the housing and having an elongated opening therein through which the series of manually operable keys extend, said elongated opening having laterally spaced side edges which are positioned at spaced points on opposite sides of the keys, a blower scroll supported within said housing, said blower scroll having air inlet and outlet openings therein with the reed plate being supported on the blower scroll in communication with said outlet opening and means for pivotally supporting the keys on said blower scroll with one end of each of the keys being positioned in operative relation to one of the reeds on the reed plate with the other end of the keys extending through the elongated opening in the housing.

2,659,262
TOOL FOR ASSEMBLY OF PRE-ENGRAVED PROJECTILES WITH CARTRIDGE CASES
Frank R. Simpson, Upper Darby, Pa.
Application May 18, 1951, Serial No. 227,035
1 Claim. (Cl. 86—43)

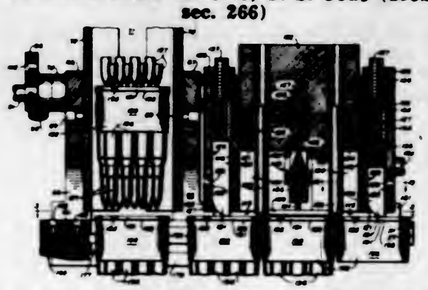
In a tool for assemblying a pre-engraved bullet within a cartridge case, a base having a cylindrical recess, a cartridge case holder having a central axial bore within which a cartridge case

fits when inserted from the bottom of the bore, said holder being counterbored at its upper end and having its lower end shaped to smoothly rotatably fit the recess in said base, said holder having a channel in its lower end radially of the bore axis, a key fixed in the recess of the base to fit said channel and a peripheral notch in the head of the cartridge case when the two are inserted into said recess in predetermined angu-



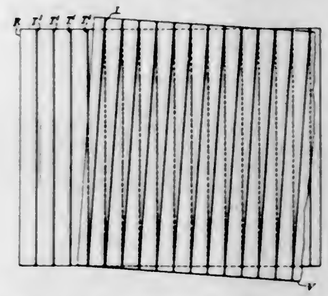
lar relation, a bullet guide rotatably fitting the counterbore in said holder, said guide having a splined bore to slideably receive and guide a bullet into assembled position within the cartridge case, a flange integral with said guide and having an arcuate slot therein and a screw passing through said slot and threaded into said holder to secure the guide in fixed position of rotational adjustment with respect to said holder.

2,659,263
AMMUNITION DECLIPPING MACHINE
Frank E. Costello, Philadelphia, Pa.
Application August 17, 1950, Serial No. 180,020
6 Claims. (Cl. 86—47)
(Granted under Title 35, U. S. Code (1952), sec. 266)



4. A cartridge declipping machine, including, a guideway along which clips to be unloaded of their cartridges are made to move, a reciprocating feed member operating parallel to said guideway to move the clips predetermined distances to predetermined positions therealong, a reciprocating punch member located perpendicular to said feed member and guideway and slidable into and out of the clips in axial alignment therewith so as to engage an end of at least one cartridge and push cartridges so contacted out of the clips, cam-operated mechanism for reciprocating said punch member, a clutch controlling the connection and disconnection between said cam-operating mechanism and a source of power, and means for operating said reciprocating feed member so that whenever said punch is moved to its most extended position it will register with the heads of the cartridges on the ends of adjacent pairs of clips being urged along said guideway, whereby the punch will force the so contacted cartridges out of their clips to loosen the remaining cartridges and cause their fall from the clips by force of gravity.

2,659,264
METHOD OF DETERMINING THE VELOCITY AND ACCELERATION CHARACTERISTICS OF MOVING OBJECTS
Fordyce E. Tuttle and Walter C. Newcomb, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 27, 1950, Serial No. 158,619
7 Claims. (Cl. 88—14)



1. The method of determining the acceleration characteristics of a moving object to rectilinear motion and having a reference line which is substantially normal with respect to the direction of motion and comprising the steps making a photographic record of the moving object by photographing it on a sensitized surface through a lined screen moved across the focal plane with a uniform velocity, the transparent lines of said screen separated by distances equal to a multiple of the width of said lines whereby the photographic record comprises a series of composite line images of the object each separated by the same time interval and each representing an instantaneous position of the object, superimposing on said photographic record a lined screen like that through which it was exposed, but with the lines thereof inclined to the image elements of said record so that in their length each line overlaps a plurality of adjacent line images but not two adjacent images equivalent in time for the purpose of viewing said reference line on the object for determining whether it appears straight or curved, and if curved, in what direction relative to the direction of movement of the object photographed.

2,659,265
SORT VERIFIER FOR PUNCHED CARDS
Leo Patrick Martin, Decatur, Ill.
Application December 18, 1950, Serial No. 201,370
1 Claim. (Cl. 88—14)



A sort verifier for punched cards comprising in combination hingedly mounted and raisable casement means carrying an illuminable element, said illuminable element being non-illuminated while said casement means remain in normal lowered stacking position and illuminated when in raised position, a transparent closure comprising one face of said casement means, means integral with said casement means for supported-

ly holding a deck of punched cards for sort verification in relation to the transparent closure comprising one face of said casement means, hinge means integral with the casement means for the purpose of hingedly mounting the casement means on the frame portion of a work-top of a card sorting means, switch means mounted in said casement means, a contact button on said switch means and adapted for releasable contact against said frame portion of said work-top for the purpose of effecting the off and on action of the switch means and said illuminable means carried by said casement means, depending on the position of said casement means.

2,659,266

ADJUSTABLE TRIAL FRAME HOLDER

Martin S. Swisher, Pittsburg, Kans.

Application November 12, 1949, Serial No. 126,781
1 Claim. (Cl. 88—20)



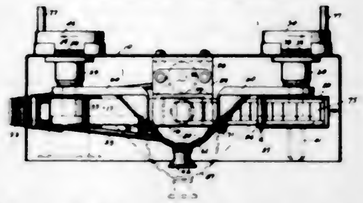
A holder for trial frames for trial lenses having side arms comprising, a head member, said member including a cylindrical portion for engaging around the head of a patient above the ears and having free ends, one of the free ends having its side edges turned laterally and inwardly forming a friction head and the other end engaging in said head to provide adjustment for the cylindrical portion to fit the head of a patient in horizontal position, ears on each side of said head member substantially over the ears of the patient, said ears being formed integrally with said head member and turned laterally and upwardly in spaced relation with said member the sides of said head member and ears having openings therein, pins having heads and threaded shanks engaging in said openings, a band having openings in its ends pivotally engaging said pins and extending over the head of the patient, a second band of shorter length for engagement inside the head member and said first named band, the ends of said second named band having openings engaging said pins for pivotally mounting said second named band on said pins, nuts for engaging the threaded shanks of said pins, whereby said bands are frictionally held on said pins in adjusted positions, adjustable supporting members, a first and second arm member, a link, means pivotally connecting one end of each of said first arms to one of said pins respectively, the other end of each of said first arms being pivotally connected to one end of each of said links respectively, the other end of each of said links being pivotally connected to one end of each of said second arms respectively, said second arm being secured at their free ends to the trial frame means on said arms cooperating with means on each end of said links for moving said arms one with respect to the other to position the trial frame with respect to the eyes of the patient, and means for holding said arms in adjusted position.

2,659,267

ROLL FILM VIEWER

Gerhard H. J. Baule, Salina, N. Y., assignor to Hall & McChesney Inc., Syracuse, N. Y., a corporation of New York

Application October 7, 1950, Serial No. 188,953
2 Claims. (Cl. 88—24)



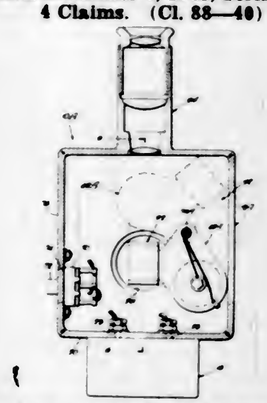
1. In a roll film reader, a support, a pair of spaced film spools having shafts rotatably carried by one of the walls of said support, axially movable actuating means for each of said spools, gear means for drivingly interconnecting the actuating means with the spool shafts, means resiliently retaining the gear means out of operative connection except when said actuating means is axially moved in opposition to the resilient means for winding, a pair of optical flats within said support and between which the film is adapted to be positioned, one of said flats being stationary relative to the support and the other flat being movable relative to the support, and automatic means actuated upon axial movement of said actuating means in opposition to the resilient means to a position for driving a spool for moving said other optical flat away from the one flat whereby the film can be freely moved between the flats.

2,659,268

LIGHT METER FOR MICROPHOTOGRAPHY

Constantine G. Grand, New York, N. Y.

Application December 7, 1948, Serial No. 63,910
4 Claims. (Cl. 88—40)



1. In an instrument of the character described, a casing having a bottom wall provided with a light-inlet opening and a top wall spaced from said bottom wall and provided with a light-outlet opening in registry with said inlet opening, said bottom wall having a part adapting said casing to be secured to the upper part of the tube of a microscope with said light inlet opening of said casing in registry with said tube, a photo-electric cell movably mounted in said casing and movable in the space between said walls to and from a projected position in which said cell is disposed between said openings and subjected to the action of light entering said casing from the microscope tube, through said inlet-opening, and to and from a retracted position in which said cell is clear of the path of light from said inlet-opening to said outlet opening, said casing having a viewing tube in communication with the interior of said casing, and a light-reflector movably mounted in said casing and movable therein to and from a projected position in which light entering said casing through said light-inlet opening is reflected by said reflector through said viewing tube, and to and from a retracted position in which said reflector is clear of the path of light entering said inlet-opening, said photo-electric cell and said light-reflector being mounted side-by-side in said casing in unitary relation, and means accessible externally of said casing for selectively moving said cell and said reflector to their said projected and retracted positions whereby, when said cell is disposed in said path of light, said reflector is clear thereof, and when said reflector is disposed in said path of light, said cell is clear thereof.

2,659,269

COMBINATION PLASTIC AND METAL EYEGLASS FRAME CONSTRUCTION

Charles Castelli, Union City, N. J., assignor, by mesne assignments, to Columbia Protektosite Co. Inc., Carlstadt, N. J., a corporation of Delaware

Application November 15, 1950, Serial No. 195,753
3 Claims. (Cl. 88—47)



1. An eyeglass frame construction comprising a single metallic resilient lens carrier means, a one-piece plastic brow bar assembled to extend over said carrier means, a mid-portion of said brow bar enveloping a section of said carrier means for embeddingly anchoring the same thereto, and releasable fastening means terminating said brow bar and carrier means for selectively securing lenses positioned therebetween, said brow bar having a continuous recessed edge groove with a portion of the latter serving as said carrier means enveloping section, edge rims of said enveloping section groove extending in a bent clamping position to provide the embedded anchoring for said carrier means section.

2,659,270

SPECTACLE TEMPLE

Alonzo Hurst, Providence, R. I.

Application June 28, 1950, Serial No. 170,765
2 Claims. (Cl. 88—52)



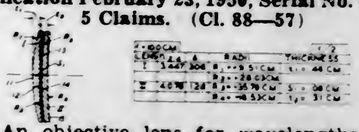
1. A temple comprising two rigid sections, one of said sections having an axially extending recess opening through its end and the end portion of the other section snugly fitting in said recess and slidably removably related thereto, and means carried by each of said sections to prevent accidental separation of the sections, said means comprising a hole in one section located along said recess and a resilient bowed detent having an arched portion carried by the other section and located so that the arched portion will enter said hole and engage the edge thereof when the sections are in assembled relation.

2,659,271

SILICON-GERMANIUM OBJECTIVE LENS

Robert G. Treuting, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 23, 1950, Serial No. 145,827
5 Claims. (Cl. 88—57)



1. An objective lens for wavelengths in the infra-red comprising two axially aligned optical elements each of which is transparent to wavelengths of light in the infra-red and substantially opaque to visible light, the first being of highly purified silicon having a purity resulting in electrical resistivity in excess of 2 ohm-centimeters and the second a component of highly purified germanium having a purity resulting in electrical resistivity in excess of 5 ohm-centimeters.

2,659,272

DENTAL MIRROR HAVING A REPOLISHABLE LIGHT TRANSMITTING PLASTIC COVER DISK

Theodore F. Goldmann, Mamaroneck, N. Y.

Application December 8, 1951, Serial No. 260,717
2 Claims. (Cl. 88—104)



1. A dental mirror having a mirror retaining cup-shaped member and a handle connected thereto, a plastic protective disk held by said cup-shaped member, said disc being sufficiently soft so as to be readily polishable to a smooth light-transmitting surface when buffed, a light reflecting mirror surface beneath said plastic protective disc, and positioned within said cup-shaped member, said plastic protective disc being mounted and retained within said cup-shaped member by means of inwardly turned flanges on the upper rim of said cup-shaped member extending over the edges of said disc, said disc having a reduced portion smaller in diameter than the main disc portion thereof extending beyond the upper edge of said cup-shaped member and above said reflecting mirror surface whereby the light-transmitting surface of said disc extends beyond said upper edge of said cup-shaped member to facilitate the buffing and polishing thereof.

2,659,273

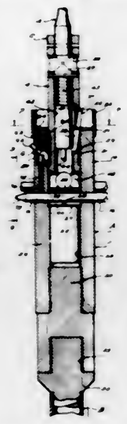
HARPOON

Herbert L. Trautmann, Los Angeles, Calif., assignor of one-half to John O. Blackmon, Torrance, Calif., and one-half to William E. Mickey, Los Angeles, Calif.

Application August 16, 1948, Serial No. 44,505
9 Claims. (Cl. 89—1)

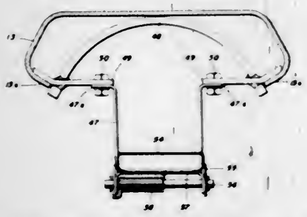
1. Apparatus of the character described including, a body with an elongate opening adapted

to receive a holder carrying an explosive charge, a projectile separable from the body and having a portion slidably engageable in the opening to be driven therefrom by operation of the charge, a spring actuated firing pin carried by the projectile and shiftable therewith and adapted to be operated relative thereto and relative to the holder to ignite the charge in the holder a control latch carried by the projectile and releasably holding the pin in an unactuated position and re-



leasable by movement of the projectile relative to the barrel, and a safety means limiting insertion of said portion into the opening and including, a releasable stop carried by the body and engageable with the said portion of the projectile and adapted to normally project into the opening and limiting insertion of said portion into the opening, and a key engageable with the body and adapted to release the stop and limit insertion of said portion into the opening.

2,659,274
ROCKET PROJECTOR WITH ADAPTER
Charles C. Lauritsen, Pasadena, Calif.
Application April 2, 1943, Serial No. 481,649
2 Claims. (Cl. 89—1.7)



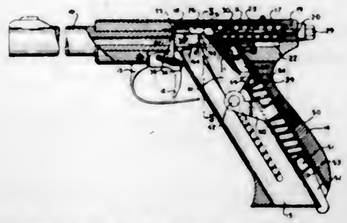
1. A rocket projector for airplanes, which comprises a frame, releasable means for mounting the frame on the lower wing surface of an airplane, an inverted trough-shaped member connected to the frame and having inwardly turned side edges for suspending a rocket by spaced fins extending laterally and upwardly of its sides, a trough-shaped adaptor for receiving a smaller rocket, said adapter having out-turned marginal side flanges engaging said inturned side edges, and transverse supports affixed to said adapter flanges and resting on said inturned side edges for supporting said adapter subjacent said trough-shaped member.

2,659,275
AIMING DEVICE FOR GUNS
Valter Erland Ericsson, Karlskoga, Sweden, assignor to Aktiebolaget Bofors, Bofors, Sweden, a corporation of Sweden
Application January 26, 1951, Serial No. 207,969
14 Claims. (Cl. 89—41)



1. An aiming device for a gun having a barrel moveable in elevational and azimuth directions, the said device comprising a stationarily mounted standard, a control head mounted on said standard for rotation about a substantially upright axis, a control frame having a base branch and two side branches extending from the ends of the base branch at approximately a right angle thereto, the base branch of the said frame being supported on said head rotatable about an axis transversely to the rotational axis of the control head, first control means operatively coupled with the control head for controlling the azimuth position of the barrel by the rotational position of the control head relative to said standard, and second control means operatively coupled with said frame for controlling the elevational position of the barrel by the angular position of the frame relative to the control head, the said base branch forming arm rests for a gun pointer operating the said aiming device and the said side branches of the frame forming hand rests for the gun pointer.

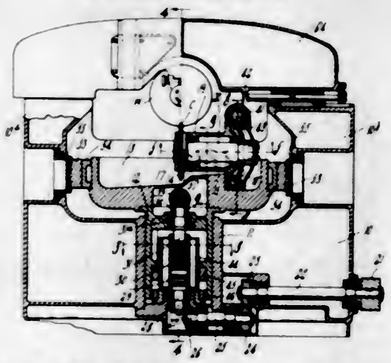
2,659,276
FIREARM COCKING MECHANISM
Ian Murray, Vancouver, British Columbia, Canada
Application September 27, 1946, Serial No. 699,810
6 Claims. (Cl. 89—195)



1. A firearm including a movable bolt, a shoulder on the side of the bolt, a bevelled projection on the bolt, a striker slidably mounted in the bolt, a lug projecting laterally from the striker near the bolt shoulder, a retarding pin having a bevelled shoulder extending towards the bolt, a projection extending from the pin, a recoil spring

normally urging the pin shoulder into engagement with the bevelled bolt projection, said pin retaining the bolt in the normal position thereof and being depressed by the bolt projection on the rearward movement of said bolt, a cocking lever pivoted at its lower end and having its upper end extending between the bolt shoulder and the striker lug, said lever slidably engaging the bolt shoulder adjacent the upper end of the lever and the lug at said upper end, and an arm projecting outwardly from the lever adjacent the pivot thereof and normally spaced from the retarding pin projection, said cocking lever being rotated about its pivot by rearward movement of the bolt to move the striker rearwardly relative to the bolt and to move the lever arm to compress the recoil spring after the retarding pin has been depressed by the bolt, and said compressed spring returning the bolt to the forward position through the lever and the pin.

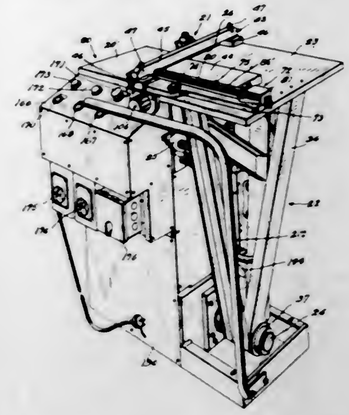
2,659,277
MACHINE FOR CUTTING OR FINISHING GEAR TEETH AND ANALOGOUS FORMATIONS
Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application July 21, 1945, Serial No. 606,441
5 Claims. (Cl. 90—3)



1. A machine for cutting notches and grooves in work pieces comprising a supporting structure, a cutter carriage mounted with provision for reciprocation in a prescribed path, a circular cutter mounted rotatably on said carriage with its plane of rotation parallel to said path, a worm gear connected with the cutter to rotate about the same axis therewith and having a toothed circumference substantially equal in diameter to the diameter of the cutter, a worm meshing with said worm gear, means for restraining the worm from endwise movement when the carriage reciprocates, and a work support arranged to hold a work piece in cutting relation to the cutter at the same side of the axis thereof as the worm.

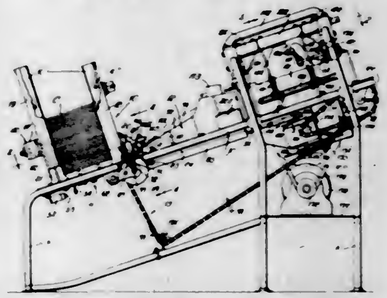
2,659,278
TRIMMING MACHINE
Roy M. Schultz, Chicago, Ill., assignor to Pontiac Engraving & Electrotype Co., Chicago, Ill., a corporation of Illinois
Application May 2, 1950, Serial No. 159,635
23 Claims. (Cl. 90—20)

1. A device of the class described comprising a frame, an elongated cutter element mounted upright on said frame for rotation about its longitudinal axis, and a work supporting member mounted on said frame at a point beneath said cutter element for forward and rearward movement about an axis disposed transverse with respect to the longitudinal axis of said cutter element, and means mounted on said frame and op-



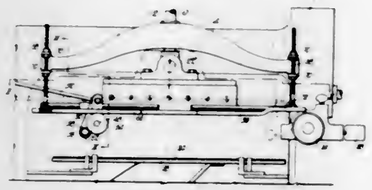
eratively connected to said cutter element and work-supporting member to effect adjustment of said cutter element in a direction transverse with respect to the axis of rotation thereof whereby said cutter element contacts the supported work only upon forward movement of said member.

2,659,279
CARTON SETUP MACHINE
Richard J. Fahey, Evanston, Ill., assignor to General Package Corporation, a corporation of Delaware
Application June 12, 1948, Serial No. 32,634
23 Claims. (Cl. 93—37)



19. Apparatus for erecting a collapsed, cellular, hinged cross partition type egg carton, characterized by a tubular body having integrally hinged side wall, bottom and coplanar cross partition-bearing panels, comprising means for advancing the egg carton endwise of said panels, means for progressively distending the tubular carton body to generally rectangular outline while so advancing, including a channel laterally restricted on both sides of the path through which the carton is forwarded by said advancing means, said channel engaging and exerting transverse compressive force on opposed integral hinges of the carton body panels, and means for deflecting the cross partitions of said partition-bearing panel about the respective hinges thereof from coplanar relation to a spaced, parallel, erected condition.

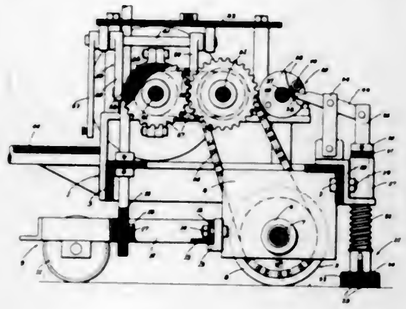
2,659,280
GLUE DISPENSING ASSEMBLY FOR ENVELOPE HANDLING MACHINES
William R. Williamson, Independence, Mo.
Application May 22, 1950, Serial No. 163,355
4 Claims. (Cl. 93—68)



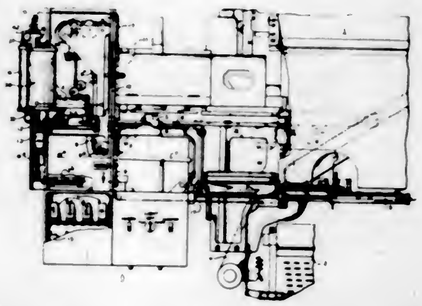
1. In an envelope machine having a continuously rotating gum pot drum and a gumming roller reciprocable toward and away from said drum, said roller having a number of gumming cylinders engageable with the drum for rotation therewith when the gumming roller is adjacent the drum, an auxiliary roller including a shaft, and a cylinder on the shaft for each gumming cylinder respectively; a friction wheel on the drum, the gumming roller and the shaft respectively, the friction wheel of the gumming roller being disposed for frictional engagement with the friction wheel of the drum when the gumming roller is adjacent the drum; a pair of links rotatably receiving said shaft and swingably secured to the gumming roller with the auxiliary roller gravity-biased toward the gumming roller, the cylinders of the auxiliary roller in rolling contact with the gumming rollers, and the friction wheel of the auxiliary roller in frictional contact with the friction wheel of the gumming roller; an elongated, stationary, plate-like track overlying the friction wheel of the gumming roller and having its longitudinal axis in parallelism with the path of travel of the last-mentioned wheel, said track having a length terminating at one end thereof in spaced relationship to the drum and disposed for frictional engagement with the friction wheel of the gumming roller when the last-mentioned wheel is out of engagement with the friction wheel of the drum, whereby the cylinders are all continuously rotated by the friction wheel of the gumming roller during reciprocation of the gumming wheel and while the same is adjacent the drum.

2,659,281
ASPHALT COMPACTING MACHINE
Jack H. Lucas, Stockton, Calif.
Application December 24, 1949, Serial No. 134,929
1 Claim. (Cl. 94—49)

In an asphalt tamping machine having a frame, a tamping foot, a plunger projecting upwardly from the foot, a sleeve fixed on the frame through which the plunger intermediate its ends is slidable, a compression spring about the plunger between the sleeve and foot, a lever pivoted at one end on and projecting from the plunger at an angle thereto, a rotary driven unit on the frame to intermittently engage and depress the other end of the lever, and a substantially vertical link pivoted at one end on the lever intermediate its ends and at the other end on the frame; the foot being formed with an internal chamber having a perforated bottom plate, and an oil absorbing pad in the chamber resting on and covering the plate and leaving an oil retaining space in the chamber above the pad, the foot having an oil intake port leading from exteriorly of the top to the top of the internal chamber.

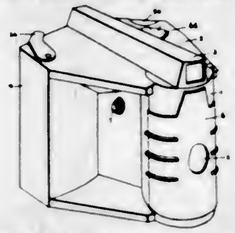


2,659,282
METHOD FOR CORRECTION AND MAKE-UP OF TYPE MATTER FOR PLANOGRAPHIC PRINTING PROCESSES
Herman R. Freund, Brooklyn, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York
Application January 19, 1950, Serial No. 139,422
5 Claims. (Cl. 95—4.5)



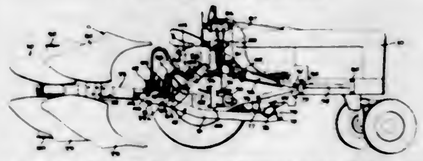
1. A method of preparing a form from which a printing plate can be made, said form comprising lines of type matter of the same or different type sizes produced on a film or paper sheet in columnwise succession in a photocomposing machine, which comprises perforating the sheet marginally within its edges and opposite the ends of each line when produced thereon and while the sheet is fixed on the optical projection axis for the respective lines; utilizing the perforations related to any faulty line to locate such line relative to a punch and punching from the sheet, between said perforations, a rectangular strip bearing the faulty line; utilizing perforations similarly made and related to a corrected line produced on a secondary sheet to locate such line relative to the punch and punching as aforesaid from this sheet a rectangular strip of the same size bearing the corrected line; inserting the corrected line-strip in the rectangular opening in the first sheet where the faulty line-strip is removed by utilizing the walls of said opening as abutments for locating the inserted line-strip in the plane of said sheet, and securing the inserted line-strip to said sheet.

2,659,283
FOLDING ROLL FILM CAMERA
Thomas William Clifford and John Mills, Leicester, England, assignors to Taylor, Taylor & Hobson Limited, Leicester, England, a British company
Application December 15, 1950, Serial No. 200,942
Claims priority, application Great Britain December 20, 1949
21 Claims. (Cl. 95—32)



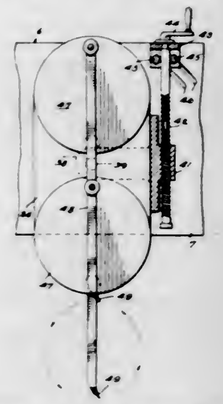
1. A photographic camera of the still picture type comprising a center member having a columnar portion carrying a taking lens and a housing extending rearwardly from the top of said columnar portion and carrying view finder lenses therein, rigid walled wing members of segmental form in plan pivotally supported on said columnar portion of the center member, the respective wing members including rigid top and bottom walls cooperating with a rigid side wall and rigid inner and outer arcuate rear walls to form chambers for and including means for supporting a film supply spool and a film take-up spool, an intermediate member pivotally mounted on said center member and having a rigid arcuate rear wall to telescope between the inner and outer rear walls of said wing members to constitute therewith a light-tight rear closure for the camera on extension of the wing members to open the camera for picture taking, and means for latching the wing members and intermediate member to maintain the open picture-taking condition of the camera.

2,659,284
TWO-WAY PLOW
Harry A. Pursche, Gardena, Calif.
Application July 12, 1948, Serial No. 38,352
17 Claims. (Cl. 97—26)



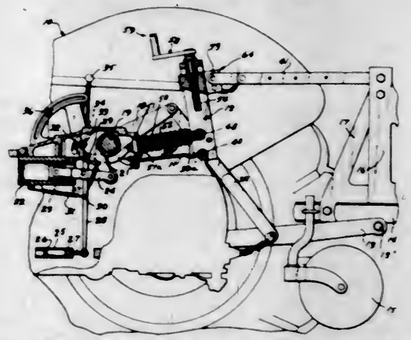
1. In a two-way plow assembly adapted to be carried by a tractor, the combination of a longitudinal beam extending in the direction of normal travel of the plow assembly, a cross member fixed at the forward end of the longitudinal beam, a carrier turnably mounted on the longitudinal beam and provided with a right hand plow and a left hand plow, means to turn the carrier on the longitudinal beam to bring either plow into operative position, support arms at the opposed ends of said cross member adapted to be carried by the tractor whereby the plow assembly may be raised and lowered, draft means pivotally connected to the support arms, and means including longitudinal elements extending forwardly from said arms for varying the inclination of the longitudinal beam.

2,659,285
PIVOTED BLADE CULTIVATOR
Gordon A. Burr, Pruitt, Ark.
Application December 15, 1950, Serial No. 201,047
1 Claim. (Cl. 97—36)



In a cultivator, a main wheel supported frame, an auxiliary pivoted frame mounted within the wheel supported frame for rotation within the supporting frame, crank disks mounted within the auxiliary frame arranged in upper and lower groups, crank shafts connecting the adjacent crank disks, said crank shafts being eccentrically connected with said disks, earth working tools including arms mounted on the adjacent crank shafts of the upper and lower groups of disks, gearing supported between said frames operating said disks, and tools connected with said disks, a threaded enlargement secured to the auxiliary frame, a vertical threaded shaft operating through the threaded enlargement, means mounting said vertical threaded shaft for arcuate movement on the main wheel supported frame, and a crank handle effecting rotation of the threaded shaft in the threaded enlargement rotating said pivoted frame in the arc of a circle, adjusting the angle of operation of the earth working tools carried thereby.

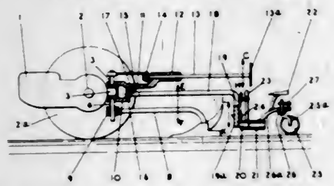
2,659,286
DRAFT EQUALIZER FOR TRACTOR IMPLEMENT HITCHES
Henry Metzger, Mercedes, Tex.
Application October 24, 1949, Serial No. 123,215
5 Claims. (Cl. 97—46.07)



3. A device of the character described for varying the position of application of the forces in a compression link for actuating a compres-

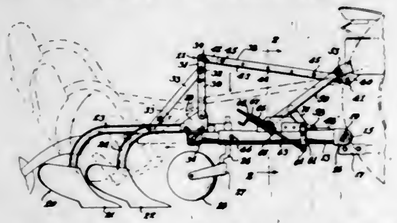
sion spring and a control rod of a hydraulic implement lift system for a tractor, comprising a lever pivotally mounted at its lower end to said tractor, means for connecting one end of said control rod and compression spring to said lever at a point above said tractor pivotal connection, a slide member movable along said lever for connecting said compression link with said lever, and screw means attached to said lever and said member for moving said member along said lever, whereby the effective length of said lever may be varied by moving said slide member along said lever.

2,659,287
MOTOR-CULTIVATOR WITH TRAILING IMPLEMENT AND OPERATOR SEAT
Marthe de Jouette, Toulon, France
Application March 19, 1951, Serial No. 216,411
Claims priority, application France
March 24, 1950
3 Claims. (Cl. 97—47.04)



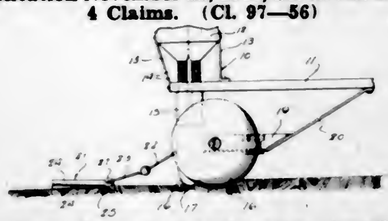
1. A motor cultivator comprising a wheeled motor unit, a working tool pivoted thereto for horizontal movement about a vertical axis, steering means pivoted to said motor unit for horizontal movement about a vertical axis independently of the working tool, and a trailing wheeled seat portion pivoted to the steering means for vertical movement about a horizontal axis which extends transversely of the vehicle.

2,659,288
TRACTOR PLOW ATTACHMENT
Norbert A. Vanderloop, Forest Junction, Wis.
Application May 29, 1952, Serial No. 290,655
2 Claims. (Cl. 97—47.89)



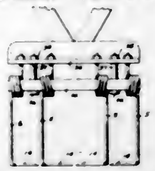
1. In a tractor plow attachment, a plow assembly, a telescopic boom adapted to be connected at one end to a tractor, means pivotally connecting the other end of said boom to said plow assembly, an upstanding arm on said assembly, a link bar pivotally connected at one end to said arm and adapted to be connected at its other end to the tractor, and yieldable means on said telescopic boom limiting extension of said boom, said boom comprising an outer sleeve, and a bar member slidably positioned in said outer sleeve for telescoping movement therein, and said yieldable means comprising a projection on said bar member, a lever pivoted to said outer sleeve and engageable with said projection to prevent extension of the bar member from the sleeve, and spring means biasing said lever against said projection, said spring means being yieldable when the plow assembly encounters an obstacle, causing said assembly to be swung upwardly.

2,659,289
DRAG WEIGHT FOR COVERING AND PACKING PLANTED SEED
Harry P. Holman, Arkansas City, Kans.
Application November 22, 1949, Serial No. 128,735
4 Claims. (Cl. 97—56)



2. In a drag of the character described, a longitudinally elongated substantially cylindrical central body portion arranged to occupy a depressed position in a furrow by reason of its weight and to be moved along the furrow so as to depress seed into the wall of the furrow, said central body portion being formed with wings on its opposite sides, said wings extending laterally outwardly from the sides of said central body portion and extending between the opposite ends of said central body portion.

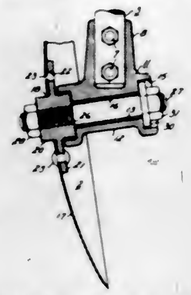
2,659,290
CULTIVATOR
John S. Glomb, Barberton, Ohio, assignor of one-half to T. C. Dethloff, Akron, Ohio
Application November 1, 1949, Serial No. 124,758
1 Claim. (Cl. 97—59)



A wheeled cultivator, which includes a supporting bar arranged across the cultivator, a cross bar below the supporting bar, parallel to it and fastened thereto, and a plurality of cultivating elements each made of a single rod-like steel element and having a substantially vertical shank with its upper end fastened into the supporting bar, a coil spring in each shank and located tight around the cross bar, with the bottom of each steel element bent at a right angle with at least one edge sharpened to a blade, with the bent bottom of each steel element lying across the cultivator and the bent portions of the two outer elements pointing inwardly, there being no connection between the elements below the cross bar.

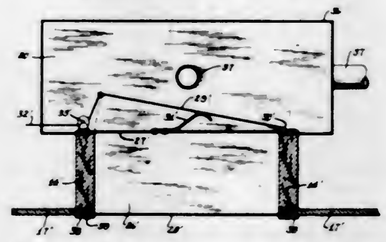
2,659,291
REVERSIBLE DISK ATTACHMENT FOR AGRICULTURAL IMPLEMENTS
Willard H. Tanke, La Crosse, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application August 11, 1949, Serial No. 109,724
6 Claims. (Cl. 97—217)

1. In an implement, a tool supporting standard having an end thereof provided with an elongated part extending crosswise of said standard, said part having a bore extending longitudinally therethrough and presenting similar plane end bearing surfaces surrounding opposite ends of said bore, a rotary tool comprising a hub portion presenting similar oppositely facing plane end surfaces complementary to said oppositely facing end bearing surfaces of said part, said hub



lation to its said end surfaces and alignable with having an axial bore therethrough in normal re the bore in said part, and means including an element insertable through said bores for detachably securing said tool to said part for rotation relative thereto with one of said hub end surfaces rotatably bearing against a supporting surface comprising the selected one of either of said part end surfaces.

2,659,292
PRESSURE - DISPLACEMENT VENTILATING APPARATUS FOR ARCHITECTURAL STRUCTURES
Edwin J. Kurek, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application June 23, 1950, Serial No. 169,806
2 Claims. (Cl. 98—33)



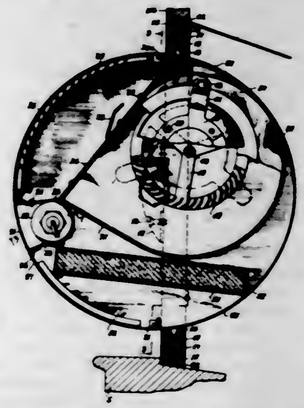
1. In combination, a room wall having spaced structural forms, a perforated distribution plate forming a portion of the wall surface exposed to the interior of the room, a perforated second plate coextensive in area with said distribution plate and forming a back wall surface in spaced relation to said distribution plate, means providing a primary plenum chamber behind said room wall concealed from the interior of the room and having said second plate as one wall thereof, means for supplying pressurized ventilating air to the primary plenum chamber, said second wall together with said structural forms and said distribution plate forming a secondary plenum chamber inside of said room wall, said distribution plate and said second plate each providing air flow diffusion passages between the plenum chambers and the room, and flow control means between said primary and secondary plenum chambers including a valve plate coextensive in area with said second plate and hinged at one margin for adjustment towards and away from obstructing relation with respect to the air flow diffusion passages through said second plate to admit air at reduced velocity and pressure into said secondary plenum chamber for further diffusion through said distribution plate into the room.

2,659,293
CHIMNEY STACK, ESPECIALLY FOR LAND VEHICLES AND SHIPS
Jacques Valensi, Marseille, France, assignor of one-half to "Société Anonyme des Forges et Chantiers de la Mediterranée," Paris, France, a corporation of France
Application November 7, 1949, Serial No. 125,921
Claims priority, application France
November 17, 1948
3 Claims. (Cl. 98—60)



1. In a smoke-stack of the type described, in combination, a flue, a fixed fairing surrounding said flue, said fairing being in the form of an upstanding aircraft wing having a biconvex symmetrical horizontal contour and a closed flat top, said fairing being symmetrically biconvex in horizontal cross-section with its maximum transverse chord at about 20% of the longitudinal axis from the leading edge, and outlet ducts positioned at the very upper edge of the fairing connecting said flue at the top edge thereof with each opposite side of said fairing, said outlet ducts being directed rearwardly from said flue at an angle of about 30° to the fairing surface and terminating in outlet apertures in said fairing side surfaces.

2,659,294
WINDOW VENTILATOR
Herman Hersperger, Roselle, N. J.
Application January 2, 1948, Serial No. 151
16 Claims. (Cl. 98—94)



1. A ventilator for air circulation adapted to be inserted in an open window and the like and comprising a rectangular frame of a thickness approximately a window frame having a rectangular opening therein to form horizontal and vertical sides, sealing means carried by the frame around the inner edges of the frame opening, a

casing having end walls, means carried by the vertical sides of the frame and casing rotatably mounting the casing within the frame openings with the sealing means engaging the casing, the casing having a cylindrical periphery and at least one inlet opening and at least one outlet opening within 180° of the cylindrical periphery of the casing and the remainder being closed, the casing having a cylindrical periphery to enable the casing to be rotated within the frame opening to bring each opening to the other side of the frame; and blower means secured within the casing including at least one blower housing having an inlet connected with the inlet opening in the casing and an outlet connected with the outlet opening in the casing, a motor, and a blower for said housing and connected with the motor so as to be driven thereby.

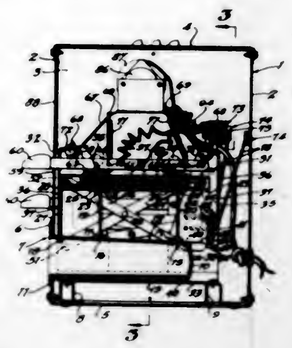
2,659,295
TOAST WARMING ATTACHMENT FOR ELECTRIC TOASTERS
Dom D. Soccoli, New Britain, Conn.
Application March 17, 1952, Serial No. 276,944
5 Claims. (Cl. 99—339)



1. In a food warming device, a top-slotted substantially rectangular electric toaster having rounded corners, an intermediate perforated detachable inverted pan shaped to fit snugly on the sides and ends of said toaster, a dished top cover detachably mounted upon said pan, the sides of said cover fitting closely and snugly over the sides of said pan, but the ends of said cover being loose with respect to the ends of said pan, the top of said cover being spaced sufficiently above the top of said pan to provide ample space for warming articles of food placed on said pan, and to permit the escape of hot air and steam from the warming chamber between said pan and cover.

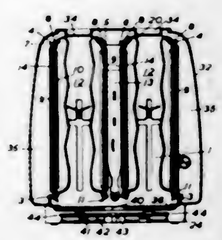
2,659,296
BROILER
Edward P. Tyler, North Hollywood, Calif.
Application February 18, 1950, Serial No. 144,900
2 Claims. (Cl. 99—358)

1. A broiler including a magazine of elongated form and open at one end, said magazine provided with three spaced-apart slots, one of which is adjacent the open end of the magazine, a dielectric plate adapted to overlie the magazine, said plate formed with a pair of transverse slots and provided with an end plate, spits passed through the slots in said dielectric plate and depending therefrom, an elevating mechanism provided with a plate, having a channel portion, said dielectric plate being slidably carried within said channel portion, a second dielectric plate fixedly carried by said elevating mechanism, said second dielectric plate provided with a pair of electrical contacts for engagement with the spits carried by the first dielectric plate, said elevating mechanism, when lowered, moving the spits through two of the spaced slots in the magazine, the said end plate passing



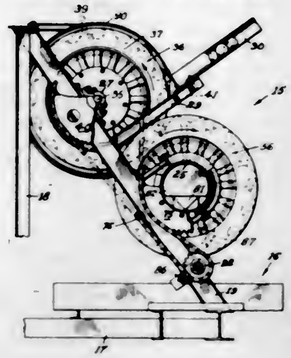
through the slot adjacent the open end of said magazine to close the same.

2,659,297
Donal William Morphy, Chislehurst, and William Morris Russell, Bromley, England, assignors to Morphy-Richards Limited, St. Mary Cray, England, a British company
Original application December 5, 1949, Serial No. 131,226. Divided and this application December 18, 1950, Serial No. 201,298
Claims priority, application Great Britain December 7, 1948
5 Claims. (Cl. 99—400)



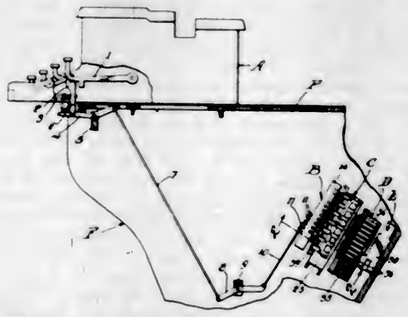
1. An electric toaster having an outer casing open at its bottom, supporting means for said casing separating it from the surface upon which the roaster rests, at least two toasting chambers within the casing separated by a vertical chimney space also open at its bottom, a food support and a heater in each toasting chamber and a crumb tray releasably carried by said supporting means extending horizontally beneath the openings in said casing and chimney space but above the lower extremity of the supporting means, said crumb tray comprising two vertically spaced plates permanently secured together and imperforate beneath said toasting chambers, but having an aperture in at least the uppermost plate directly beneath the chimney space, the space between the plates having direct communication at its edges with the exterior of the casing so that cooling air from outside said casing may be convectively drawn between said plates and up through said aperture in the uppermost plate to cool said plates and thereby prevent heat damage to the surface upon which the toaster rests.

2,659,298
DRUM TYPE ORANGE JUICER
Kenneth K. Hudson, Tampa, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application September 29, 1949, Serial No. 118,581
10 Claims. (Cl. 100—98)



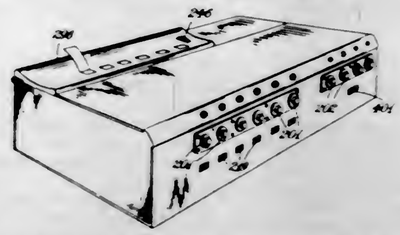
1. In a device for extracting juice from whole citrus fruit the combination of: matching cup elements each comprising a base and multiple parallel uniformly spaced plates rigidly united with said base and separated by narrow spaces; means mounting said elements for causing relative movement of said elements to bring the plates of the respective elements into interdigitating relation, the plates of one element then extending into the spaces between the plates of the other element, there being matching cavities formed in the interdigitating edges of said plates to receive a whole citrus fruit when said elements move together; and a device provided on one of said elements in the bottom of the hollow formed therein for forming a hole in the rind of said fruit while it is being compressed between said elements, to permit the escape of juice from said fruit, there being a passage formed in said element and leading from said hole forming means to conduct away juice escaping from said fruit as aforesaid.

2,659,299
CHARACTER SELECTING MECHANISM
Chester A. Macomic, Chicago, Ill.
Application November 2, 1948, Serial No. 58,003
18 Claims. (Cl. 101—46)



1. Character selecting means including longitudinally tapered bars, each bar being reversed with respect to the next whereby the wide end of one bar is adjacent the narrow ends of the bars on either side of it, characters on the bars arranged with the widest characters at the wide end and the narrowest at the other, the remaining characters being spaced along the bar in accordance with their variation in width, means for longitudinally displacing the bars, stop means adapted to be projected into the path of each bar, a typewriter having typewriter keys, operating connections between the keys and the stops, the connections being so disposed that for any selected letter the stop corresponding to a typewriter key is projected into the path of the type bar when the key is struck, the stops for one bar being reversed in position with respect to the stops for the next bar whereby when longitudinal movement of bars takes place, each bar is arrested by a stop, and characters are positioned in line irrespective of the reversal of the position of characters on the bars, the stop in one row of stops for positioning a particular character on the character bar is reversed in its position in the row of stops with respect to the stop in the next adjacent row of stops for positioning the same particular character on the next adjacent character bar.

2,659,300
TICKET PRINTING AND ISSUING MACHINE
Charles William Adshead, London, England, assignor to Setright Registers Limited, London, England, a British company
Application October 17, 1949, Serial No. 121,832
Claims priority, application Great Britain October 18, 1948
13 Claims. (Cl. 101—69)



10. A ticket printing and issuing machine comprising (*a*) at least two independently operable printing blocks and platens allocated to tickets of different characteristics (e. g. values) and arranged for relative reciprocation to apply printing pressure to blank ticket strips fed between the blocks and platens; (*b*) a corresponding number of pairs of feeding rollers allocated to the several printing blocks respectively and arranged for relative movement into and out of pressure engagement to feed blank ticket strips between the printing blocks and platens and to issue the printed tickets from the machine; (*c*) a group of a corresponding number of press buttons allocated to the blocks and feed rollers respectively and operable to select for operation any one of the printing blocks and to cause strip feeding pressure engagement between the pair of feed rollers associated with the selected block; (*d*) an electric driving motor; (*e*) a rotatable primary driven member; (*f*) a releasable rotatable pawl-and-ratchet driving connection between the motor and the driven member, the pawl being rotatable with the driven member; (*g*) a rotatable control member; (*h*) a member displaceable from a position in which it lies outside the path in which the pawl rotates to a position in which it lies in the path and serves on contact with the pawl to disengage the pawl from the ratchet and thereby to release the drive; (*i*) a

plurality of abutments arranged in succession around the axis of rotation of the control member and each rotatable with the control member from a position in which it constrains the said displaceable member to lie in the path of the pawl as aforesaid, to any one of a series of alternative positions in which the displacement member is free from such constraint; (*j*) a further group of push buttons for selecting any one of a predetermined range of quantities of tickets; (*k*) driving connections of varying ratios between the quantity push buttons and the control member, the ratios being such that the control member and an abutment are rotated on operation of the buttons from the displaceable-member-constraining position of the abutment through varying angles of rotation depending upon the quantity value of the push buttons, into the aforesaid alternative positions of the abutment; (*l*) a drive between the primary driven member and the control member to set the control member to the displaceable-member-constraining position of the next abutment in the succession after the primary member has been rotated a sufficient number of turns to print and issue the quantity of tickets selected; (*m*) cam means driven by the primary member for operating any "selected" printing block and platen; and (*n*) intermittent driving means between the primary member and one of each pair of the feed rollers to rotate the rollers between the printing operations of the printing blocks and thereby to cause the pair of rollers in pressure engagement to feed fresh portions of the strip to the operative printing block and to issue the tickets printed.

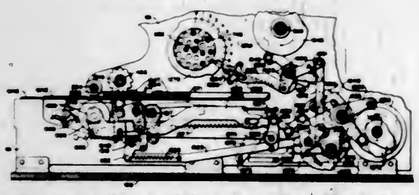
2,659,301

PRINTING MECHANISM FOR ACCOUNTING MACHINES

Mayo A. Goodbar, Everett H. Placke, and Carl G. Falkner, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Original application July 17, 1948, Serial No. 39,278, now Patent No. 2,616,623, dated November 4, 1952. Divided and this application May 13, 1950, Serial No. 161,838

8 Claims. (Cl. 101—93)



4. In a machine of the class described, in combination with type carriers, printing means to take impressions from the type carriers onto record material, and power-operated means to actuate the printing means, said power-operated means including a toggle connection, of a settable means movable from a normal position into a moved position wherein the settable means arrests one element of the toggle connection to render the toggle connection effective to cause the impression means to be actuated by the power-operated means; differentially settable control disks having a plurality of control points thereon, said control points located at different distances from the axis of the control disks; feeler means connected to the settable means, said feeler means coacting with the control point to move different extents from the normal position, depending on the differential setting of the control disks, to control the setting of the settable means; means responsive to one setting of the feeler means to restore the feeler means and the settable means to normal position after one impression has been taken by the impression means; another means responsive to a different setting of the feeler means to restore the feeler means and the settable means to normal position after a second impression has been taken by the impression means; said two last-named means thereby acting to control the effectiveness of said toggle joint to cause the printing means to take one or two impressions; manipulative devices to control the differential setting of the control disks; and means to feed the record material between the two printing operations.

2,659,302

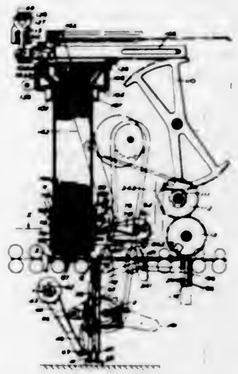
RECORD CARD CONTROLLED SENSING AND PRINTING MEANS

Arthur William Excell, Thornton Heath, England, assignor to Powers-Samas Accounting Machines Limited, London, England, a British company

Application August 22, 1950, Serial No. 180,728

Claims priority, application Great Britain September 5, 1949

16 Claims. (Cl. 101—93)



1. A machine for printing on a card, including sensing means comprising a pin box, printing mechanism selectively controlled thereby, means to feed posting and stock cards in succession through the machine, means to retain a posting card in different printing positions for a plurality of consecutive cycles of the machine, means including a plurality of stops to retain a stock card in different sensing positions beneath the pin box for a plurality of consecutive cycles of the machine, means to control the sensing means so that sensing of data in normal and interstage locations of a different field or fields in said stock card is or are effected during each cycle, means selectively controlled by the pins of the pin box to transmit data sensed during each cycle to the printing mechanism, means to effect operation of the printing mechanism after transmission of said data thereto, and means comprising a card gate movable in the direction of the plane of the card to advance the posting card to a new line printing position during each sensing of the stock card, whereby data sensed from said normal and interstage locations during consecutive cycles while the stock card is in different sensing positions is printed in different line positions on the posting card during the single passage of the card through the machine.

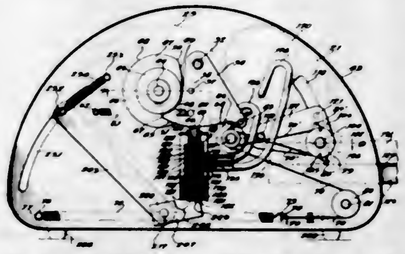
2,659,303

PUMP ACTUATING MEANS FOR ROTARY DUPLICATING MACHINES

Robert Warren Quirk, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

Application December 6, 1948, Serial No. 63,703

4 Claims. (Cl. 101—132.5)



1. In a duplicating machine having a drum, means for rotating said drum, and a sheet feeding and moistening roller, the combination of a cam rotating with said drum, means for moistening said roller including a pump supplying solvent fluid to said roller, said pump comprising a bellows forming part of the pump chamber, means for varying the capacity of said bellows to feed fluid to said roller, comprising a lever oscillated between two alternative positions by rotation of said cam, said pump being disposed adjacent said lever, and said lever having a cam surface thereon, an abutment with which said bellows engages, and means on said pump engaging said lever cam surface and connected with said bellows to compress said bellows between said means and said abutment, and priming means for priming said pump comprising a member mounted for engagement with said bellows to compress the same between said last mentioned member and the cam surface engaging means and additional means for moving said last mentioned member into compressing engagement with said bellows.

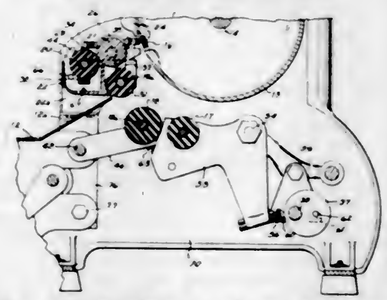
2,659,304

MOISTENING MECHANISM FOR ROTARY DUPLICATING MACHINES

Henry P. Keil, Chicago, Ill., assignor to The Fixture Hardware Corporation, Chicago, Ill., a corporation of Illinois

Application April 24, 1952, Serial No. 284,153

9 Claims. (Cl. 101—132.5)



1. In a duplicating machine, a supporting frame having a master sheet holding drum rotatably mounted in the frame and having a pressure roller for pressing copy sheets against the drum, a liquid trough mounted in the frame adjacent to the drum, a first roller supported in the trough, a second roller alongside the trough, end portions on the trough, the second roller having bearings mounted for movement up and down on said end portions, a third roller beneath the second roller, spring means yieldingly urging the third roller upwardly and causing it to support the second roller above its lower limit of movement with respect to the trough, a transfer roller above the wall of the trough between the first roller and the second roller, means mounting the transfer roller for movement laterally toward and away from the first roller, said mounting means holding the transfer roller spaced above the second roller when the second roller is at its lower limit of movement with respect to said end portions, said mounting means including stops limiting the upward movement of the transfer roller when the second roller is moved up against it by the third roller.

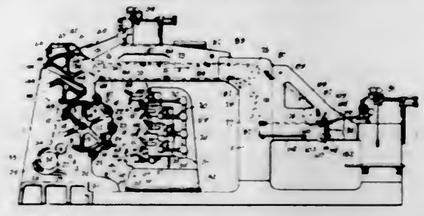
2,659,305

MULTICOLOR ROTARY, INTAGLIO, LETTERPRESS, AND OFFSET PRINTING PRESS

Gualtiero Giori, Buenos Aires, Argentina

Application January 23, 1950, Serial No. 140,029

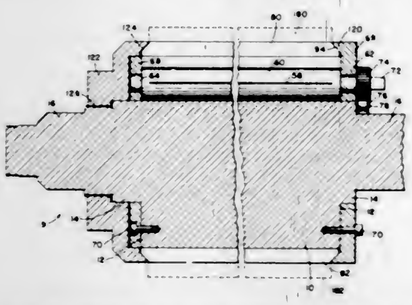
2 Claims. (Cl. 101—175)



1. A printing press for printing multicolor intaglio, letterpress impressions from a single intaglio plate, letterpress cut inked with several adjacent colors, off-set printing from a single rubber blanket or transfer element provided with several superimposed or adjacent designs and colors by a plurality of engraved cylinders, comprising in combination a rotatably supported drum, means positioned on said drum capable of holding either an intaglio printing plate, a letter-press cut, a rubber blanket or transfer element on the same supporting surface of said drum, a second rotatably supported drum of the same diameter as said first mentioned drum being in pressure contact therewith for rotating at the same speed but in an opposite direction thereto, a sheet feeder positioned above said second drum, means on said second drum for taking from and holding on its surface sheets fed by said sheet feeder, an arcuate support positioned adjacent said first drum, a plurality of equally spaced roller holding members mounted on said support capable of interchangeably holding a series of inking rollers to apply each a different ink to the intaglio printing plate or the letterpress cut on said first drum and a series of printing rollers to print each a different color in the blanket on said first drum while circumferentially spaced with respect to said first drum, a movably mounted carriage, a series of inkers arcuately mounted on said carriage in such a manner that one inker will be placed in cooperating relation with a corresponding inking roller or printing roller when on said arcuate support upon the moving of said carriage adjacent said holding members, a cleaning cylinder being positioned adjacent the periphery of said first drum for cooperating therewith for taking off the excess ink from the intaglio plate when on said first drum, a rotatably mounted cylinder for tak-

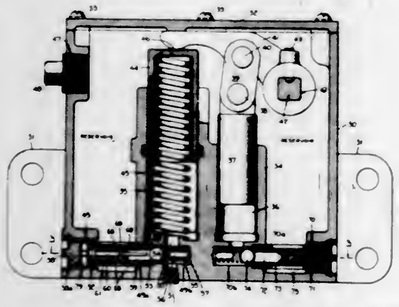
ing the ink off said cleaning cylinder, the said second drum, roller holding members and cleaning cylinder being positioned around the periphery of said first drum in that order.

2,659,306
MEANS FOR VARYING THE CIRCUMFERENCE OF PRINTING CYLINDERS
Walter W. De Lano, Hamilton, Ohio, assignor to The Hamilton Tool Company, Hamilton, Ohio, a corporation of Ohio
Application March 8, 1951, Serial No. 214,520
5 Claims. (Cl. 101—415.1)



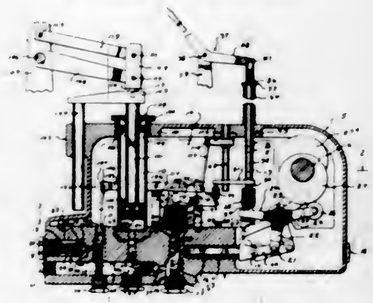
4. An adjustable circumference printing cylinder comprising a carrier roll including a central cylindrical portion from the opposite ends of which axial shafts of lesser diameter project, a pair of complementary partial cylinder shells including radial members adapted to abuttingly engage portions of the outer surface of the carrier roll, and means at opposite ends of said central cylindrical portion detachably secured to and carried by said carrier roll, each of said means including a continuous annular peripheral socket adapted to overhang an end of the said central portion and engage one end of said shells for detachably securing said shells to and in driven relationship with the carrier roll.

2,659,307
COMPOUND PRESSURE PUMP
Herbert J. Framhein, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application November 4, 1947, Serial No. 783,864
1 Claim. (Cl. 103—4)



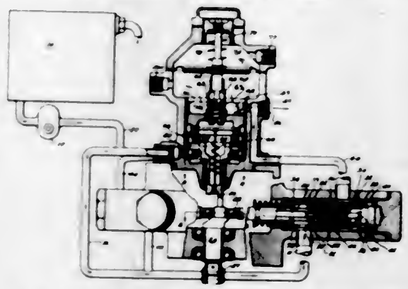
In a combination of the class described, a base casting formed with a reservoir, a low pressure intake bore extending into said casting from the outside thereof and leading to said reservoir, a low pressure pump in communication with said bore, a plug for said bore having openings through which fluid may flow from said reservoir toward said pump, a control valve coacting with said plug and bore, a high pressure intake bore extending into said casting from the outside thereof and leading to said reservoir, a high pressure pump in communication with said bore, a plug for said bore having openings through which fluid may flow from said reservoir toward said pump, a control valve coacting with said plug and bore, a spring pressing each of said control valves toward its seat and with said control valves adapted to be unseated on the suction stroke in each pump cylinder to allow flow of fluid to said cylinders, the pressure strokes seating said valves, a pressure outlet passage in said casting parallel to said low pressure and high pressure bores and leading to the exterior thereof and in communication with both pump cylinders, a control piston in the plug of said low pressure intake bore, passage means between said low pressure intake bore and said pressure outlet passage whereby the control piston moves upon the development of predetermined pressure in said pressure outlet passage to hold said control valve unseated during the pressure stroke of said low pressure pump, and a valve between said pressure outlet passage and each of said pump cylinders.

2,659,308
POWER LIFT
Frank W. Wells, Pasadena, Calif., and Joseph T. Kulhavy, Rock Island, Ill., assignors to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Original application February 27, 1942, Serial No. 432,670. Divided and this application October 4, 1947, Serial No. 777,994
4 Claims. (Cl. 103—23)



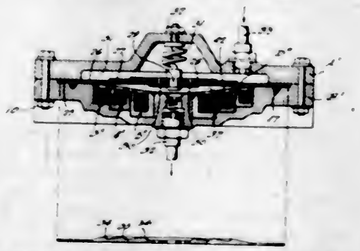
1. In a power lift construction, means providing a fluid passageway, a valve element seated in said passageway for controlling the flow of fluid therethrough, a shell having a bore communicating with said passageway and co-axial therewith, an unseating element comprising a guide portion slidable in said bore, and having an unseating pin extending into said passageway and terminating adjacent said valve element, means providing for passage of fluid past said guide portion, an abutment on said guide portion protruding from said bore, resilient means in said bore contacting said guide portion and urging said pin in a direction away from said valve element, means to prevent removal of said unseating element from said bore, a perforate enclosure surrounding said shell and provided with an aperture for said abutment in the perforate portion thereof, and means outside said enclosure to depress said abutment to effect unseating of said valve by said unseating pin.

2,659,309
FUEL INJECTION FOR INTERNAL-COMBUSTION ENGINES
George M. Holley, Jr., Grosse Pointe, Mich., assignor to George M. Holley and Earl Holley
Application September 18, 1948, Serial No. 49,941
6 Claims. (Cl. 103—41)



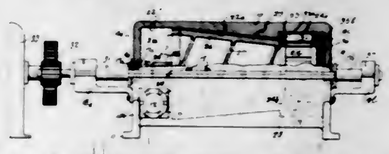
1. A fuel injection pump and control therefor comprising a reciprocating rod, a cylinder, an annular free piston slidably mounted in said cylinder and surrounding said rod and spaced apart therefrom, a disc extending from and carried by said rod and engaging with the inner end of said piston so as to close the central opening in the piston during its pumping stroke and to open the said central opening during the suction operation of said pump, a passage to deliver fuel under pressure from said cylinder, pressure release means engaged by the outer end of said rod towards the end of its pumping stroke to check the discharge of fuel, a second one way connection from said rod to said piston adapted to engage with the other end of said annular free piston so as to leave the middle of the piston free to permit fuel to freely flow therein during its suction stroke, a rotating release valve said rotating release valve consisting of a rotating cylindrical drum, a formed port in the wall of said drum an outlet from said fuel pump, a sationary escape port located in the outlet from said fuel pump and aligned with said formed port, the rotation of said drum being to timed that fuel is not delivered until said formed port has moved out of alignment with said escape port.

2,659,310
ELECTROMAGNETIC PUMPING DEVICE FOR PUMPING FLUIDS
Anton Ryba, Bolzano, Italy
Application September 2, 1950, Serial No. 182,982
11 Claims. (Cl. 103—53)



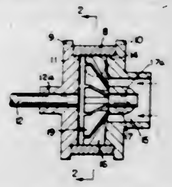
1. In an electromagnetically actuated pumping device for pumping a fluid, in combination a housing, an electromagnetic means comprising a plurality of ring shaped magnetic circuit means disposed within the housing in concentric arrangement, the said ring-shaped circuit means forming at least one substantially continuous surface, each of said circuit means including exciting coil means and ferromagnetic core means, the said individual circuit means when energized generating differently strong magneto-motive forces, armature means in form of a flexible diaphragm, the said diaphragm being supported along its periphery within the housing and positioned to form a pumping chamber between the diaphragm and each adjacent continuous surface, electric means for intermittently energizing said concentric magnetic circuit means so as to cause the diaphragm to oscillate thereby varying the capacity of each pumping chamber, said concentric circuit means, when magnetized, attracting adjacent corresponding zones of the diaphragm, fluid admission means arranged to communicate with each pumping chamber and to admit fluid into a chamber upon an oscillatory movement of the diaphragm in one direction, and fluid discharge means arranged to communicate with each pumping chamber to discharge fluid from a chamber upon an oscillatory movement of the diaphragm in opposite direction.

2,659,311
CENTRIFUGAL PUMP
George H. Schaffer, Waterbury, Conn.
Application June 20, 1949, Serial No. 100,110
13 Claims. (Cl. 103—88)



10. In a centrifugal pump, the combination comprising a housing having an inlet and an outlet port and a longitudinal tubular sleeve rotatably contained in the housing, spiral conveyor screw threads of rib-like construction protruding a short distance from the interior wall of the sleeve, means at one end of the sleeve and rotating with the sleeve to deflect liquids into the sleeve, means at the other end of the sleeve and rotating with it to deflect liquids from the sleeve into the outlet port, and means to rotate the deflecting means and the sleeve within the housing.

2,659,312
CENTRIFUGAL PUMP
Adolph Wahle, Davenport, Iowa, assignor to W. H. Martin, Davenport, Iowa
Application September 8, 1950, Serial No. 183,850
3 Claims. (Cl. 103—103)



1. A centrifugal pump comprising a body, a head closing one end of said body and having an opening therethrough centrally located therein, a hub positioned in said opening and supported by said head, said opening being larger than said hub whereby to provide an annuluar inlet about

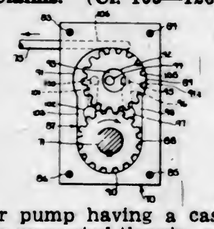
said hub, a second head closing the other end of said body and having a bearing located centrally therein, said body and said heads forming an approximately cylindrical chamber therein, a shaft rotatably supported by said bearing and by said hub, an impeller affixed to said shaft within said chamber, said impeller having a circular flange adjacent to the head having the bearing, the chamber in the body being divided by the flange into two compartments, one compartment being much larger than the other, and the impeller having radial blades which extend at their inner ends from said flange to the opposite end of said chamber and at said flange outwardly into running engagement with said body, said flanges having holes therethrough between the blades adjacent the hub, said blades terminating short of engagement with said body and the first mentioned head at the juncture thereof, whereby to provide in said chamber an unobstructed passage entirely therearound, and said body having an outlet opening therethrough to the outer portion of said chamber and extending between the facing surfaces of said flange and of the first mentioned head.

2,659,313
ROTARY PUMP
Frank L. Carson, Los Angeles, Calif.
Application May 31, 1949, Serial No. 96,330
2 Claims. (Cl. 103—117)



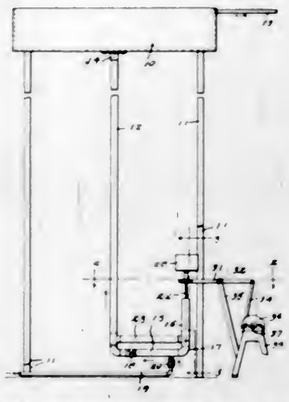
1. In a fluid impeller device having a rotor with a plurality of flexible vanes about the periphery thereof and fixed thereto, a bore through the central portion of the rotor having a fin across it with an enlarged locking edge integral therewith, a shaft which snugly fits into the bore of the rotor, and the shaft having at one end thereof an open slot which terminates into an enlarged bore that is diametrically across the shaft, the rotor, fin, and enlarged locking edge of the fin being made of a resilient deformable material so that the slotted end of the shaft can be forced over said enlarged locking edge of the fin, and so that the shaft can rotate the rotor and each vane having a foot-like configuration and a wide area of attachment to the rotor so that fraction stresses are at a minimum.

2,659,314
GEAR PUMP
Wallace H. Wood, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application September 22, 1949, Serial No. 117,105
2 Claims. (Cl. 103—126)



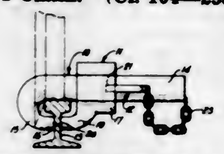
1. In a gear pump having a casing, a drive shaft rotatably supported therein, a driving gear on said shaft, an aperture within said casing having a partial cylindrical surface surrounding a portion of said driving gear and in sealing contact therewith and being provided with an elongated widened portion having semi-cylindrical surfaces, a laterally movable impeller gear within said widened portion of said aperture which meshes with said driving gear, said impeller gear being arranged to shift laterally in said widened portion of the aperture in a direction normal to its axis of rotation, said direction being dependent upon the direction of rotation of the drive shaft, said semi-cylindrical surfaces serving rotatably to support said impeller gear alternately in sealing engagement therewith in one or the other of its two operating positions, a pair of spaced pump chambers provided in said aperture on opposite sides of the meshing gears, a discharge passage in the casing, connected to one of said pump chambers when the impeller gear is in one operating position and to the other of said pump chambers when the impeller gear is in the other operating position, an intake chamber within said impeller gear, a pair of spaced passages in said casing each having one end connected with one of said pump chambers, and spaced ports at the other end of each of said spaced passages opening into said intake chamber, the spacing of said ports being such that they are alternately opened and closed by the lateral movement of the impeller gear so that the discharge of fluid under pressure is always in the same direction regardless of direction of rotation of drive shaft.

2,659,315
COUNTERBALANCE PUMP
Ward K. Richardson, Falls City, Oreg., assignor, by direct and mesne assignments, to The Richardson Company of Oregon, Ltd.
Application July 26, 1951, Serial No. 238,690
3 Claims. (Cl. 103—153)



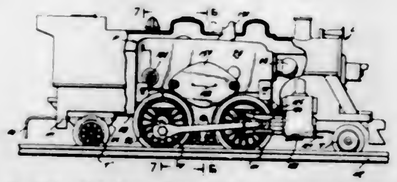
1. A counterbalanced pumping system comprising an elevated receiver, a vertically disposed intake pipe connected at one end to said receiver, a pumping cylinder connected with the lower end of said intake pipe, an upwardly opening check valve between said pumping cylinder and said intake pipe, a supply pipe connected with said pumping cylinder, an upwardly opening check valve between said pumping cylinder and said supply pipe, a counterbalancing cylinder connected with said vertical pipe, a piston slidable in each cylinder, a piston rod extending from each piston, a receptacle fixed to said piston rods, counterbalancing weights in said receptacle, and means connected with said piston rods for reciprocating said pistons.

2,659,316
CAR STOP
Albert H. Genter, Mount Lebanon, Pa.
Application January 5, 1952, Serial No. 265,111
1 Claim. (Cl. 104—258)



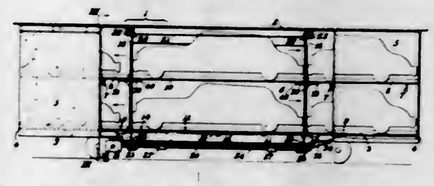
A rail clamp for holding a car wheel from moving along a track which comprises a bar to be laid across a rail head and project beyond both sides thereof for engagement by a car wheel, one end of said bar being flattened and bent into the shape of a hook that extends clear of one side of the rail head and turns back on itself and has a broad flat end to engage the web of the rail spaced below the rail head, a sleeve slidably mounted on said bar and having a downwardly and forwardly shaped hook with a broad flat end to engage the opposite side of the web of the rail spaced below the rail head, a transverse slot in said bar, and wedge means extending through said transverse slot in the bar and engaging the sleeve to tightly clamp the flat ends of both hooks against the opposite sides of the web of the rail and lock it thereon.

2,659,317
TOY LOCOMOTIVE
Joseph L. Bonanno, Madison, and Richard E. Beger, Jersey City, N. J., assignors to The Lionel Corporation, New York, N. Y., a corporation of New York
Application October 15, 1949, Serial No. 121,494
10 Claims. (Cl. 105—49)



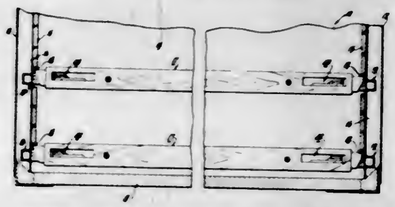
1. A toy electric locomotive propulsion unit comprising mating body and cover members made of molded insulating material and secured together to form a motor housing, the members having aligned axle bearing holes and aligned motor shaft bearing openings, wheel carrying axles passing through the axle holes and provided with driving gears, an armature shaft mounted in the shaft bearing openings and carrying a pinion, an armature and a disc-type commutator, the commutator being near one housing member and facing the same and the pinion being near the other housing member, reduction gearing carried by the latter housing member and connecting the pinion and wheel driving gears, a wound motor field core intermediate the housing members, and brush rigging carried by the housing member adjacent the commutator and including conducting tubes parallel with the shaft axis and extending through openings in said housing member and brushes in the tubes and bearing on the face of the commutator.

2,659,318
FREIGHT CAR FOR DOUBLE-DECK LOADING OF AUTOMOBILES
Carleton K. Steins, Overbrook, and William M. Keller, Merion, Pa., assignors to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 13, 1950, Serial No. 189,912
5 Claims. (Cl. 105—368)



1. A side loading freight car capable of carrying vehicles at an upper and lower level and provided with an elevator having on it a turntable with turntable treads for vehicles, and also separable ways, and means whereby the separable ways may be locked and held in the upper position when the elevator descends to its lower position.

2,659,319
ADJUSTABLE BRACE
Edward O. Hermann, Mill Valley, Calif.
Application November 28, 1949, Serial No. 129,832
5 Claims. (Cl. 105—369)

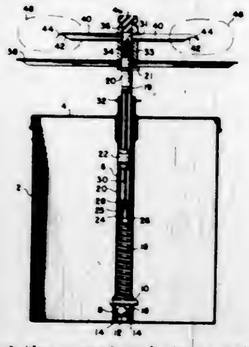


1. A device of the character described comprising a beam having a hollow end portion, a slide member slidably received within said end portion and having a track-engaging member at its outer end for slidably engaging a track, a spring disposed within said end portion bearing against the inner end of said slide member to urge it outwardly, and means encompassing and guiding said spring comprising a pair of interlocking U-shaped retainers disposed 90° apart and connected at their inner ends, one of said retainers having means at its outer end for engaging said slide member and restraining its outward movement, and pins extending between the walls of said end portions for supporting said retainers.

2,659,320
CAKE FILLER
Lindsay H. Browne, Westport, Conn.
Application November 16, 1951, Serial No. 256,794
4 Claims. (Cl. 107—1)

1. Apparatus for filling cakes with a filling material contained within a container comprising a cover for the container, a pump extending through the cover into the filling material within the container, the pump including depressible means extending above the cover for actuating the pump, a member attached to and extending transversely of the depressible means, a pair of oppositely extending tubes positioned above and adjacent to the member and connected to the

pump, the outer ends of the tubes being adapted to be inserted into a pair of cakes to direct the injection of filling material by the pump into the cakes upon operation of the depressible means,



the tubes and the member being positioned with respect to each other so as to permit an operator to depress the member with his hands while holding in his hands two cakes into which the outer ends of the tubes are inserted.

2,659,321
FLEXIBLE SHINGLE
Edward L. Lincoln, Franklin, Mass., assignor to Bird & Son, inc., East Walpole, Mass., a corporation of Massachusetts
Application May 24, 1949, Serial No. 94,983
6 Claims. (Cl. 108—7)



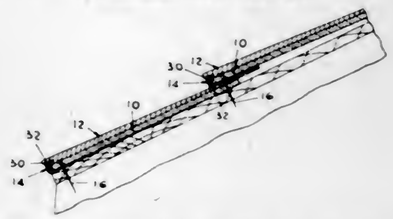
1. A flexible shingle adapted for interlocking engagement with similar shingles which comprises a substantially rectangular head portion of a length representing the greatest horizontal dimension of the shingle and of a width accounting for less than one half the vertical dimension of the shingle, a notched butt portion of lesser width and length than the head portion having a pair of opposed locking tabs at the base thereof provided by the notching, and an intermediate portion having edges which course inwardly in stepwise fashion from the base line of the head portion to connect with the side edges of the butt portion and which provide opposed upper and lower shoulders furnishing locking points for said tabs, said shingle being further characterized in that the shortest distance between the base line of the head portion and the apex of either of the notches in the butt portion is not greater than the shortest distance between the top edge of the head portion and the locking points provided by the lower shoulders; in that the shortest distance between the apex of either of the notches in the butt portion and the level of the locking points provided by the upper shoulders is less than the shortest distance between such points and the top edge of the head portion; and in that the apex of either said notch is spaced inwardly of a line drawn as an extension of the corresponding side edge of the head portion a distance substantially equal to one half the distance between the locking points provided by the lower shoulders.

2,659,322
SHINGLE
Herbert Abraham, New York, N. Y., assignor to The Ruberoid Co., New York, N. Y., a corporation of New Jersey
Application December 23, 1952, Serial No. 327,580
7 Claims. (Cl. 108—7)



1. A locking shingle of the square-butt type, comprising a body portion, a butt portion separated by a vertical slot from an adjoining similar butt portion when the shingle is laid, a linear opening in the body at the upper end of the vertical slot and at an angle to the slot, and a locking tab on the butt edge of the shingle, said tab having a linear opening adapted for insertion into the first-mentioned linear opening of a immediately underlying shingle, when laid on a roof, to lock down the butt portion of the overlying shingle.

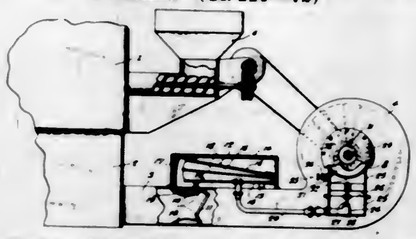
2,659,323
ROOFING OR SIDING ASSEMBLY
Alfonso Alvarez, Jr., Upper Montclair, N. J., assignor to Homasote Company, Fernwood, N. J., a corporation of New Jersey
Application June 5, 1951, Serial No. 229,965
4 Claims. (Cl. 108—9)



1. An assembly for application to the roof or side wall of a building comprising sheathing and shingles arranged in a plurality of adjacent overlapping courses with the lower edges of the sheathing and shingles of an upper course of the assembly overlying the upper edges of the sheathing and shingles of an adjacent lower course, an elongated strip for securing the sheathing and shingles in place having a generally U-shaped cross section extending along the lower edge of said upper course, said strip having an inner extended base portion and an outer flange, the inner base portion of the strip being in contact with the outer surface of the shingles of said lower course adjacent the upper limit of the exposed portion of said shingles, the sheathing of said upper course extending into said strip so as to overlie said base portion and project beneath the outer flange of the strip, fastening means extending through said overlying sheathing of said upper course, the base portion of said strip, and the shingles and sheathing of said lower course for securing the assembly in place, the shingles of said upper course overlying said fastening means and being formed with grooves therein

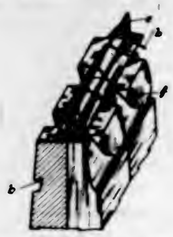
adjacent the free edges of the shingles into which the outer flange of said U-shaped strip extends to prevent outward movement of the free edges of the shingles.

2,659,324
COMBUSTION CONTROL SYSTEM
Gustave Adolphus Pepie, Jr., Richmond, Va.; Bank of Commerce and Trusts, executor of said Pepie, deceased
Application October 17, 1947, Serial No. 780,551
2 Claims. (Cl. 110—72)



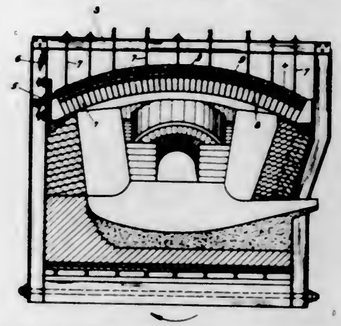
1. In a coal-burning furnace, a stoker, a blower, means for driving the stoker and blower at fixed relative speeds, a flue leading from the blower to the furnace beneath the fuel bed thereof, a damper in said flue, an expansible pneumatic chamber connected to said damper for shifting the same in accordance with the pressure of the air in said chamber, a conduit from the pressure side of said blower to said chamber and means operatively associated with said conduit and responsive to variations in the volume of the air delivered by said blower for modifying the pressure in said conduit in accordance with variations in the volume of air delivered by said blower.

2,659,325
SUSPENDED BRICK ROOF WITH FLEXIBLE SUSPENSION MEANS
Fritz Hönig, Vienna, Austria, assignor to Veitscher Magnesitwerke-Aktiengesellschaft, Vienna, Austria, a firm
Application July 23, 1947, Serial No. 763,015
In Germany, April 19, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires April 19, 1959
2 Claims. (Cl. 110—99)



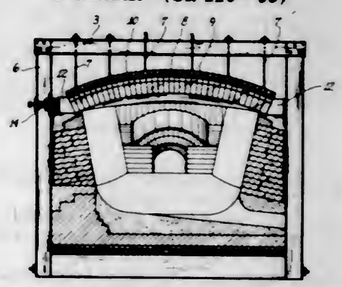
1. In a suspended roof, in combination, a stringer comprising two rows of bricks placed back-to-back, each brick having at its front side a forwardly extending projection, a supporting member extending above and substantially parallel to said stringer, and flexible suspension means anchoring said bricks to said supporting member, said suspension means comprising a single wire wrapped back and forth successively over and in contact with said supporting member and alternately around and engaging the underside of oppositely extending ones of at least a plurality of said projections.

2,659,326
ROOF FOR TILTING FURNACES
Fritz Hönig, Vienna, Austria, assignor to Veitscher Magnesitwerke-Aktiengesellschaft, Vienna, Austria, a firm
Application July 23, 1947, Serial No. 763,016
In Germany August 23, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires August 23, 1960
7 Claims. (Cl. 110—99)



5. In a furnace, in combination, a tiltable frame, a brick vault supported on said frame, said vault including a plurality of rows of bricks each forming an arched rib, a plurality of arched members respectively overlying said ribs, pressure means anchored to said frame and imparting a downward pressure to said ribs through the intermediary of said arched members, and supporting means individually securing each brick of a rib to the adjacent arched member in a manner substantially preventing radial movement between said bricks and said member.

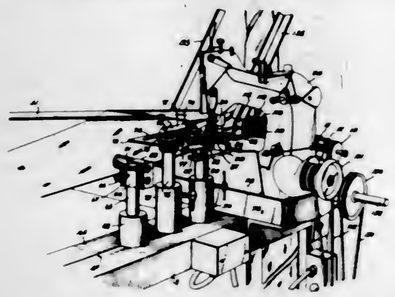
2,659,327
FURNACE ROOF
Fritz Hönig, Vienna, Austria, assignor to Veitscher Magnesitwerke-Aktiengesellschaft, Vienna, Austria, a firm
Application July 23, 1947, Serial No. 763,017
Section 1, Public Law 690, August 8, 1946
Patent expires August 23, 1960
6 Claims. (Cl. 110—99)



1. A furnace roof comprising an iron frame, a brick vault including a plurality of rows of bricks, each of said rows forming an arched rib, a plurality of arched reinforcing members respectively overlying said ribs and making contact with the bricks thereof over substantially the full length of each rib, supporting means individually securing each brick of a rib to the adjacent reinforcing member in such manner as substantially to prevent relative radial movement between said bricks and said member while permitting some relative longitudinal adjustment

thereof, each of said reinforcing members being sufficiently deformable to enable said vault to expand and rise under the influence of heat, abutment means bearing endwise on each of said ribs, guide means on said frame enabling horizontal movement of said abutment means toward said ribs, spring means urging said abutment means into contact with said ribs, and suspension means supporting said reinforcing members from said frame.

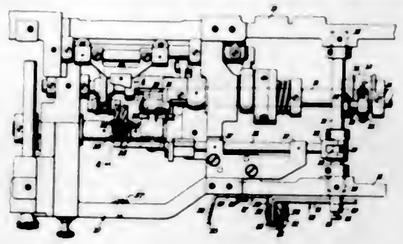
2,659,328
TUBULAR BAG MACHINE
Edward E. West, Richmond, Va.
Application March 29, 1949, Serial No. 84,111
10 Claims. (Cl. 112—63)



1. An apparatus for forming tubes from a continuously moving strip of material from a source of material supply comprising a supporting frame, means on said frame for pulling one side edge of the strip, means for continuously feeding the strip of material from the source of supply to said guiding and pulling means, an adjustable angularly disposed means mounted on said frame and extending at an angle with respect to said guiding and pulling means for directing said moving strip substantially diagonally relative to the longitudinal axis of the apparatus, strip supporting and edge adjusting means mounted on said frame adjacent one end of and being angularly disposed relative to said angularly disposed means, and a tube forming means mounted on said frame and associated with said supporting and edge adjusting means whereby the marginal edges of the diagonally directed strip are brought together on the bias, and means on said frame for connecting the marginal edges to form said strip into a spirally wound continuous tube.

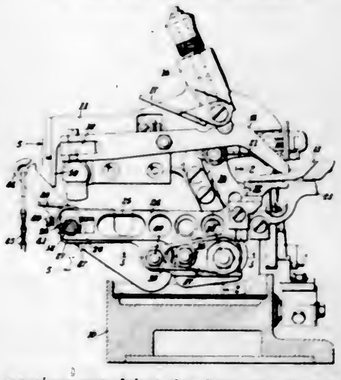
2,659,329
THREAD-CONTROLLING MECHANISMS FOR SEWING MACHINES
Arthur N. Hale, Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application September 19, 1950, Serial No. 185,560
7 Claims. (Cl. 112—199)

1. In a sewing machine having a reciprocatory thread-carrying needle, a thread-carrying looper complemental to said needle in the formation of chain-stitches, and actuating mechanism for operating said needle and said looper including a looper-actuating shaft, a shiftable looper-thread loop-spreading member, a looper-thread controlling device having a stationary thread-guiding component and a movable thread-engaging element, a common driving member for said loop-spreading member and said thread-engaging element, said driving member being arranged transversely of said looper actuating



shaft, and an operative connection between said looper actuating shaft and said driving member.

2,659,330
FEEDING MECHANISMS FOR SEWING MACHINES
Nicholaus Knaus, Cranford, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application June 30, 1950, Serial No. 171,325
6 Claims. (Cl. 112—209)

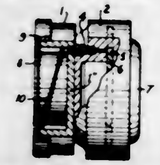


1. A sewing machine feeding mechanism comprising, a main feed-bar, an auxiliary feed-bar, a feed-dog carried upon one end portion of each of said feed-bars, means disposed intermediate the ends of said feed-bars for imparting lateral and differential longitudinal movements to said feed-bars, which lateral and differential longitudinal feed-bar movements constitute the work-feeding motions, normally stationary first and second means for respectively supporting the other end portions of each of said main and auxiliary feed-bars, and manually controlled means for causing relative lateral movement between said first and second supporting means thereby to render one of said feed-dogs inoperative.

2,659,331
LUBRICATING DEVICE FOR THE LOOPERS OF SEWING MACHINES
André Mousset, La Chaux-de-Fonds, Switzerland
Application May 2, 1950, Serial No. 159,509
Claims priority, application Switzerland May 3, 1949
4 Claims. (Cl. 112—256)

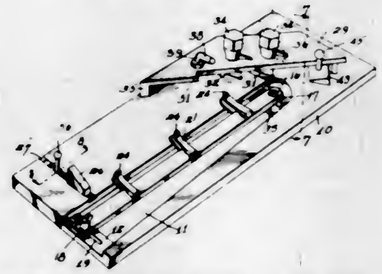
1. A lubricating device for the looper of a sewing machine having a guideway for supporting the bobbin casing; said lubricating device comprising a container secured to the looper

for movement with the latter and defining an internal compartment for lubricant, the outer extremities of said compartment terminating radially inward with respect to the guideway for the bobbin casing, said container having a conduit extending from said compartment for lubricant at a radially outward location in an end wall thereof and opening into the guideway for leading lubricant to the latter under the action of centrifugal force, and a guide wall in said compartment adjacent said end wall and sloping toward the end of said conduit opening into said compartment in the direction opposite to the



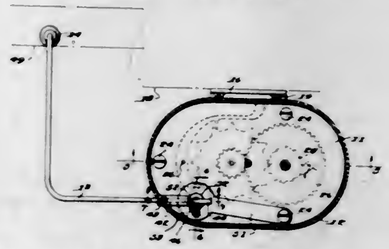
movement of said container, said sloping guide wall and adjacent end wall defining a passage for the lubricant to said conduit having progressively decreasing cross-sections whereby, on starting, the inertia of the lubricant and centrifugal force cause the lubricant to be compressed between said guide wall and the adjacent end wall of the container for forced flow through said conduit at a rate greater than the flow during normal high speed movement of the container when centrifugal force alone causes the flow through said conduit.

2,659,332
WELDING JIG FOR REPAIRING PLOWSHARES
Lee O. Wiese, Perry, Iowa
Application November 12, 1949, Serial No. 126,871
4 Claims. (Cl. 113—99)



1. A device for supporting a plow share, from which its worn cutting edge and point have been removed, and its replacement parts in proper alignment to be welded together, comprising an elongated base including front and back edges, a diagonally mounted upright portion to provide a landside guide near one end of said base and a longitudinal recess in its upper surface near its front edge, a clamp bar mounted in said recess, means pivoting one end of said clamp bar to said base near the front end of said landside guide, to permit the free end of said bar to swing in a horizontal plane forwardly and rearwardly, the upper surface of said bar having a plurality of upwardly and rearwardly inclined and slotted fingers for receiving simultaneously a replacement cutting edge and the adjoining edge of said share, means mounted on said base for adjusting the inclination of said share relative to said base, means for clamping the landside of the share adjacent to said guide with its front edge over hanging said recess, stop devices for fixing the share against rearward movement and means for fixing the movable end of said clamp bar to any one of a number of adjustments.

2,659,333
SELF-CONTAINED BURGLAR ALARM UNIT
Lewis E. Davis, Burbank, Calif.
Application September 18, 1951, Serial No. 247,086
1 Claim. (Cl. 116—91)

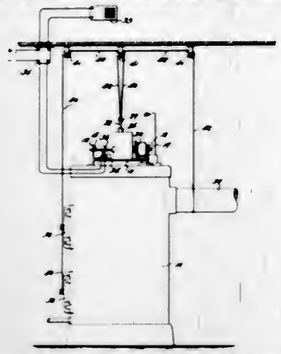


In a burglar alarm, an L-shaped mounting plate provided with a flange for attachment to a supporting structure, a support plate carried by said mounting plate, a cover providing a bell and having a slot therein, a spring-arm pivotally extending through said slot, a resilient cup connected to the outer end of said spring-arm, a plurality of spaced parallel posts extending between said mounting plate and support plate and secured thereto, a clock-work positioned between said pair of plates and including a main spring, a winding stem having its inner end connected to said main spring, a gear mounted on said stem, a rachet wheel arranged contiguous to said gear, a spring pressed pivotally mounted pawl arranged in engagement with said rachet wheel, a shaft spaced from said stem, a pinion mounted on said shaft and meshing with said gear, a tooth wheel positioned within said cover, a pivotally mounted escapement arm having a knob on one end providing a bell clapper for engagement with said cover, said escapement arm having projections for engagement with said tooth wheel, a trigger for controlling movement of said escapement arm, a post extending between said support plate and cover and secured thereto, a spring member for biasing said spring arm in one direction, a socket connected to the inner end of said spring arm and having a point extending therefrom, and a spring plate extending from said trigger and having a circular section engaged by said point.

2,659,334
ALARM SYSTEM FOR OIL AND GAS FIRED HEATING FURNACES
Ernst Fiedler, Scotch Plains, N. J.
Application April 20, 1950, Serial No. 157,072
2 Claims. (Cl. 116—100)

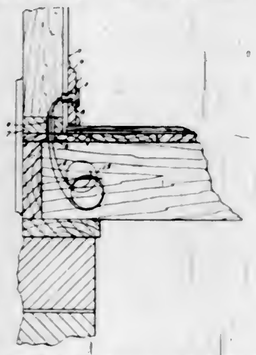
1. In an alarm mechanism of the kind described, an alarm operating shaft, a spring motor for rotating said shaft, tripable check means to hold the spring motor under tension subject to release for shaft actuating operation, said check means comprising a check wheel rotatable on the shaft and having at least one laterally projecting check pin, a ratchet wheel fixed on the shaft, a spring pressed pawl carried by the check wheel to engage said ratchet wheel whereby to prevent alarm operating rotation of the shaft by the spring motor when rotation of the check wheel is restrained, a pivoted detent bar having means

to engage a check pin to restrain rotation of the check wheel, and a pull cord to move said detent bar to check pin disengaging position whereby



to release the check wheel from restraint and thereby permit spring motor driven actuation of the shaft for alarm operation.

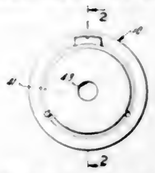
2,659,335
COMBINED INDICATING PLATE AND PULL WIRE
Joseph R. English, Erie, Pa.
Application December 6, 1950, Serial No. 199,377
10 Claims. (Cl. 116—114)



1. A combined indicating plate and pull wire comprising a cylindrical member having an outwardly directed flange on one end thereof for disposal in an aperture in a building element to indicate the location of a pre-formed passageway, and a double mechanical pull wire attached to said cylindrical member adapted to extend through a passageway in a building, said wire being adapted to be attached to an electrical conductor whereby said conductor can be pulled through said aperture.

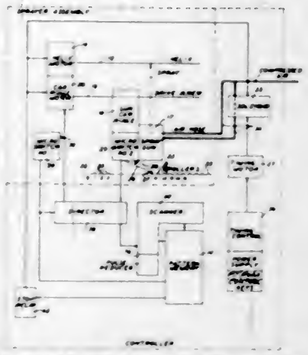
2,659,336
WARNING SIGNAL
Jack Insul, Chicago, Ill.
Application February 3, 1953, Serial No. 334,948
8 Claims. (Cl. 116—124)

1. An on-off indicator for use with a rotatable shaft and comprising a rotatable structure for connection and rotation with such a shaft, said structure including a plurality of passageways interconnected with each other, and having a viewing aperture opening from the exterior of said structure into the interconnection of said passageways, and a plurality of gravity-controlled members mounted in said passageways and bearing identifying indicia thereon, said passageways and said interconnection of said passageways having bounding surfaces shaped to cause said gravity-controlled members to move sequentially



in said passageways into and out of a position in said interconnection wherein they are viewable through said aperture from outside of said structure.

2,659,337
APPARATUS FOR SPRAYING ATTENUATION MATERIAL ONTO TRAVELING WAVE TUBE HELICES
Herbert A. Schneider, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 6, 1952, Serial No. 313,229
15 Claims. (Cl. 118—7)

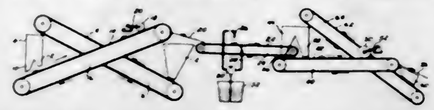


1. Apparatus for spraying attenuation onto a traveling wave tube helix in a predetermined pattern comprising means for supporting and rotating said helix, a carriage, a spray gun supported by said carriage, means for moving said carriage in a line parallel to the axis of said helix, means for electrically indicating the position of said carriage along said line as said carriage moves, said indicating means comprising switching means and means for closing said switching means once for each predetermined distance of travel of said carriage along said line, means for counting the closures of said switching means, means for reversing the direction of said carriage when said counting means has counted up to a predetermined position of said carriage, means for finally interrupting the spray when the predetermined pattern has been sprayed onto said helix by successive reversals of said carriage, and means for stopping travel of said carriage on final interruption of said spray.

2,659,338
MACHINE FOR COATING RAW OYSTERS
George Thomas Harrison, Tilghman, Md., assignor to Tilghman Packing Company, Tilghman, Md., a corporation of Maryland
Application October 30, 1951, Serial No. 253,775
6 Claims. (Cl. 118—16)

1. Apparatus for providing an edible coating to an edible food product such as an oyster which

has such a texture that dry particles will adhere thereto, comprising a first endless conveyor belt on the upper reach of which un-coated edible products are adapted to be placed at a predetermined point, means for supplying dry, edible granular material to said upper reach at points behind and ahead of said pre-determined point whereby the entire outer surface of the product is covered, screening means at the delivery end of said conveyor belt to receive and separate the coated products and the excess granular material not adhering thereto, a second endless conveyor belt parallel to said first belt and which travels in a direction opposite to the direction in which said first conveyor belt travels, means



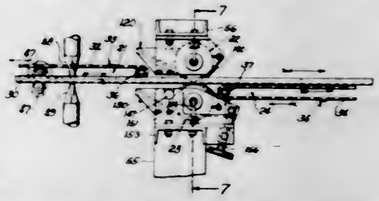
for supplying dry granular material to the second belt, a third endless conveyor belt formed of open material and positioned to receive coated products from said screening means, means positioned adjacent said third belt for subjecting coated products thereon to oppositely directed sprays of an edible adherent liquid batter, a fourth endless conveyor belt positioned to receive coated products from the delivery end of said third belt at a pre-determined point on the upper reach thereof, and means for supplying dry edible granular particles to the upper reach of said fourth belt at points behind and ahead of said pre-determined point whereby the entire outer surface of the coated oyster is again covered with said dry particles.

2,659,339
BREADING MACHINE FOR RAW OYSTERS
George T. Harrison, Tilghman, Md., assignor to Tilghman Packing Company, Tilghman, Md., a corporation of Maryland
Application March 28, 1952, Serial No. 279,010
4 Claims. (Cl. 118—16)



1. Apparatus for providing an edible coating to an edible food product such as any oyster which has such a texture that dry particles will adhere thereto, comprising a first endless conveyor belt on the upper reach of which un-coated edible products are adapted to be placed at a predetermined point, means for supplying dry, edible granular material to said upper reach at points behind and ahead of said predetermined point whereby the entire outer surface of the product is covered as the conveyor belt moves, a first endless wire mesh conveyor belt at the delivery end of said conveyor belt to receive and separate the coated products and the excess granular material not adhering thereto, an inclined trough having its inlet end disposed below the delivery end of said wire mesh conveyor belt, means for introducing batter into the inlet end of said trough to produce a flowing stream of batter therein which carries the breaded product along the trough and coats it with batter, a second endless wire mesh conveyor belt having its inlet end positioned below the delivery end of the trough to receive coated products therefrom, a vat positioned below said second wire mesh belt to receive excess batter from the delivery end of the trough, a second endless conveyor belt having the inlet end of the upper reach thereof positioned below the delivery end of said second wire mesh belt to receive coated edible products therefrom at a pre-determined point, a first hopper positioned above the inlet end of said second conveyor belt and having two discharge ports spaced longitudinally of said belt at points behind and ahead of said pre-determined point thereon, a third endless wire mesh belt having its inlet end positioned below the delivery end of said second conveyor belt to receive coated edible products therefrom, a second hopper positioned below said third wire mesh belt to receive excess breading material passing therethrough and having an open discharge port, a third endless conveyor belt having its inlet end positioned below the third hopper to receive material therefrom and the delivery end of which is positioned above the open upper end of said first hopper.

2,659,340
APPARATUS FOR APPLYING HOT MELT ADHESIVE TO CARTON BLANKS
Julius A. Zinn, Jr., Chicago, Ill.
Application June 20, 1950, Serial No. 169,163
2 Claims. (Cl. 118—202)

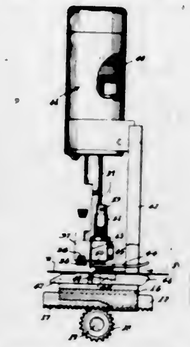


1. Apparatus for simultaneously applying a predetermined pattern of hot melt adhesive to both sides of a paperboard carton blank, comprising a pair of heated intaglio rolls, means for depositing a thin film of adhesive which is heated to a thin liquid state on said rolls, means for removing substantially all of the adhesive from the surface of said rolls, means for rotating said rolls in opposite directions at a rate sufficient to hold the adhesive within the intaglio pattern of the upper roll, conveyor means for passing a carton blank between said rolls in predetermined relation to the intaglio patterns thereof to transfer simultaneously the adhesive thereon to predetermined areas on both sides of said blank, said blank being cooler than said rolls to congeal the adhesive so transferred as it strikes the blank and to pull the adhesive away from the intaglio patterns of the rolls, and means for simultaneously adjusting the separation between said rolls and the movement of said conveyor means while maintaining said predetermined relation between said rolls and said carton blank.

2,659,341
GLUING ASSEMBLY FOR PACKAGING MACHINES
Robert E. Taggart, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Ohio
Application August 18, 1951, Serial No. 242,505
11 Claims. (Cl. 118—205)

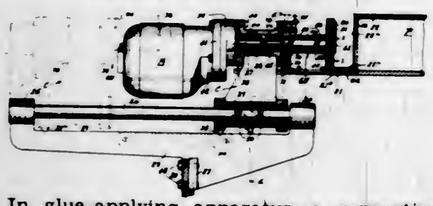
1. In a gluing assembly for a packaging machine having a glue-applying belt, means for propelling said belt, and means for moving a section of the belt toward a wrapper for trans-

ferring glue from the belt to the wrapper; means for applying glue to said belt comprising a gluepot, a glue-applying wheel rotatable therein with its periphery projecting above the surface of the glue in said gluepot, a scraper for said wheel, said scraper having a slot receiving the peripheral margin of said wheel, the sides of said slot contacting the sides of the wheel and the bottom of



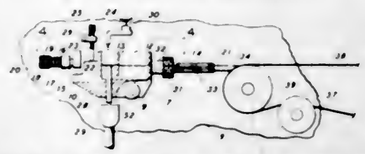
the slot having notches adjacent the sides of said slot with the bottom of the slot between said notches substantially contacting the periphery of the wheel to scrape the same between said notches, said glue-applying wheel being spaced from said belt and being rotated by said first means to throw glue from the portion of said wheel receding from said scraper onto the belt by centrifugal force.

2,659,342
GLUE-APPLYING APPARATUS FOR PACKAGING MACHINES
Robert E. Taggart, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Ohio
Application August 18, 1951, Serial No. 242,504
4 Claims. (Cl. 118—261)



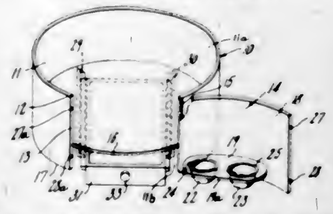
1. In glue-applying apparatus, a supporting bracket adapted to be mounted on a packaging machine, guide rods having their opposite ends supported thereby, a carriage mounted on said guide rods between the supported ends thereof for adjustable movement toward or from the packaging machine and for movement to a gluepot removing position, and glue-applying mechanism mounted on said carriage and comprising a gluepot having a slot adjacent the bottom thereof, a glue-applying roller rotatable in and downwardly out of said slot, a shaft journaled in said gluepot for supporting said roller, a wiper blade for the periphery of said glue-applying roller mounted in said gluepot on the bottom thereof and adjustable toward said glue-applying roller to vary the film of glue carried by said roller downwardly and out of said gluepot, and motor means mounted on said carriage and thereby movable with said gluepot and said glue-applying roller for rotating said shaft and glue-applying roller at a surface speed substantially equal to the speed of a package transported past said glue-applying apparatus by the packaging machine.

2,659,343
COATING LIQUID APPLICATOR
Joseph A. Kucher, Whitney Point, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application December 1, 1950, Serial No. 198,549
7 Claims. (Cl. 118—401)



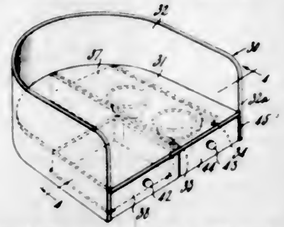
1. In an apparatus for coating a narrow strip on a moving web, a gravity flow liquid applicator comprising a coating liquid hopper, means for maintaining said liquid in said hopper at a constant level, an outlet from said hopper including an extended tubular member having a flow orifice, means for supporting said hopper tiltably into operating position in the direction of liquid flow and into inoperative position in the opposite direction therefrom, means for adjustably limiting the tilt in the first-mentioned direction in accordance with the placement of said member upon said web, means for effecting the tilting of said hopper into inoperative position and means for positioning said hopper in the direction transverse to said tilting position, thereby determining the location of said coating strip upon said web.

2,659,344
ENCLOSURE DEVICE FOR PET ANIMALS
Gustave H. Herbert, Bronxville, N. Y.
Application September 9, 1950, Serial No. 183,938
7 Claims. (Cl. 119—1)



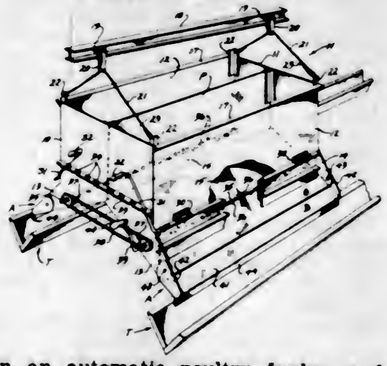
1. In an enclosure for animals; a body terminating in a lower peripheral edge, a bottom positioned a predetermined distance from said lower edge to thereby form an upper compartment open on its top end, and a lower compartment open on its bottom end, said body being provided with a cut-out, a swingable door hinged to said body and adapted to close said cut-out, a shelf associated with said door and having an opening and a forward edge, a food trough insertable in said opening, a drawer having a knob and slidable in said lower compartment whereby said bottom forms the cover for said drawer in predetermined position of the latter, and means mounting said drawer on said bottom for sliding movement within said lower compartment, said shelf being movable into said lower compartment when said cut-out is closed by said door, whereby said forward edge of the shelf abuts against said knob to secure retainment of said drawer within said lower compartment.

2,659,345
COMBINATION REST AND FEEDING DEVICE FOR ANIMALS
Gustave H. Herbert, Bronxville, N. Y.
Application October 6, 1950, Serial No. 188,690
3 Claims. (Cl. 119—15)



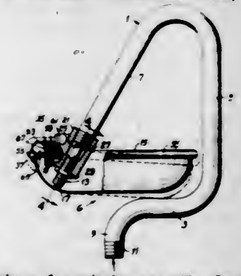
1. A combination rest and feeding device for animals comprising an upright body substantially U-shaped in cross-section and curved to conform to the natural shape of an animal when lying therein, said upright body having a lower edge for contact with a support and an open front, a platform spaced above said lower edge and secured within said upright body to define an upper compartment for receiving said animal and a lower compartment, a partition secured within said lower compartment and subdividing the latter into two channelways, means arranged offset with respect to the axis of symmetry of said platform and adapted to be extended beyond said open front and for access by said animal when lying within said upper compartment as well as for access by said animal when standing in front and laterally of said open front, said offset means being constructed for supporting a receptacle for food, means supporting said offset means below and beyond said platform, said offset means including a carrier mounted in one of said channelways for movement of said offset means from a retracted position underlying said platform to an extended position forwardly of said platform and adjacent said open front, and a drawer mounted in the other of said channelways for movement of said drawer from a retracted position wherein said platform forms a cover for said drawer, to an extended position and exteriorly of said body.

2,659,346
AUTOMATIC POULTRY FEED DISPENSER
Louis Paparazzo, Waterbury, and Alexander A. Bernartz, West Cheshire, Conn.; said Paparazzo assignor to said Bernartz
Application October 31, 1950, Serial No. 193,136
2 Claims. (Cl. 119—52)



1. In an automatic poultry feeder, a feed-containing hopper having a pair of fixed vertical end walls, a fixed inclined bottom plate, a fixed vertical side wall having its lower edge spaced from said bottom plate leaving a longitudinal feed passage opening therebetween, a longitudinal shutter plate pivoted to said side wall, said shutter plate having a flexible strip secured to its lower edge and adapted to yield to permit the passage of feed from said hopper into a trough below it, a horizontal flange on one end of said hopper, said flange having a plurality of spaced apart open notches, and an inclined rod pivotally secured to said shutter and selectively insertable in any one of said notches to hold said shutter in any desired adjusted position.

2,659,347
AUTOMATIC POULTRY DRINKING FOUNTAIN
John M. Wear, Jr., Gray Summit, Mo., assignor to Ralston Purina Company, St. Louis, Mo., a corporation of Missouri
Application July 31, 1951, Serial No. 239,491
7 Claims. (Cl. 119—81)

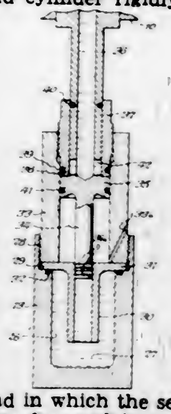


1. A drinking fountain, particularly for poultry, comprising a water supply pipe having a horizontal leg, an upright leg extending upward from one end of the horizontal leg, and an inclined leg extending down from the upper end of the upright leg above the horizontal leg, the lower end of the inclined leg being above the level of the horizontal leg, a valve at the lower end of the inclined leg having a downwardly projecting valve stem which, when raised, opens the valve, a water pan pivotally mounted on the inclined leg by means of a pivotal connection between the side of the pan and the inclined leg with the axis of the pivotal connection extending generally horizontally and transverse to the horizontal leg and above the level of the horizontal leg and on the side of the inclined leg opposite the upright leg, the pan extending from the pivotal connection under the lower end of the inclined leg and over the horizontal leg, biasing means including a spring carried by the inclined leg acting against the pan in such direction as to tend to cause the pan to swing upward against the weight of water in the pan, the valve stem being engageable by the pan to be lifted thereby as the pan swings upward to open the valve to admit water to the pan when the pan swings upward above a predetermined level, the pan having a lower limiting position of swing determined by its engagement with the horizontal leg.

2,659,348
MACHINE TOOL WITH LIQUID-SPRING ACTUATED RAM
Paul H. Taylor, Grand Island, N. Y., assignor to Wales-Strippit Corporation, North Tonawanda, N. Y., a corporation of New York
Application March 1, 1951, Serial No. 213,403
10 Claims. (Cl. 121—13)

1. A device of the character described comprising a member having a hollow chamber

therein, a cylinder extending into said chamber and spaced from the inside wall of said chamber, said cylinder having its inner end open and communicating with said chamber, said chamber and cylinder being filled with a body of liquid and confining said body of liquid, a piston reciprocable through the outer end of said cylinder, a second piston rigidly secured to the first piston, a second cylinder rigidly secured to the



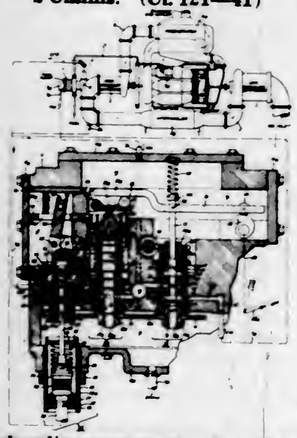
first cylinder and in which the second piston reciprocates, means for applying a hydraulic motive fluid to one side of the second piston and exhausting said motive fluid therefrom to advance and retract the first piston in its cylinder, said first piston when advanced into its cylinder compressing said body of liquid, and valve means controlling the direction of flow of the hydraulic motive fluid to the said one side of the second piston.

2,659,349

HYDRAULIC SERVO MECHANISM FOR GAS TURBINE FUEL REGULATORS

Neal E. Starkey, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 30, 1952, Serial No. 301,676
2 Claims. (Cl. 121—41)



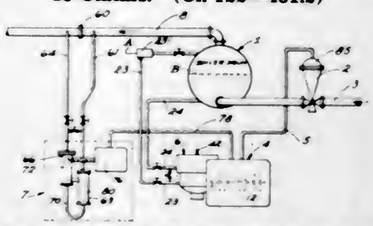
1. In hydraulic servo-mechanism, the combination of a housing, a first reciprocable piston member having a cylindrical chamber in one end thereof and conteining a second non-reciprocable piston member defining with the slidable piston a pressure chamber, the second piston having a passageway for communicating liquid to said chamber, a main coil spring surrounding the first piston and having an end portion engaging the piston to exert a force thereon in opposition to the pressure in said chamber, a source of operating liquid at substantially constant pressure, pilot valve means for supplying liquid from said source to said passageway and including a pilot spindle disposed for longitudinal sliding movement in a direction substantially parallel to the axis of said pistons, linkage means connecting the first piston to position said pilot spindle including a first lever member disposed generally normal to the axis of the piston and pilot and having an intermediate portion connected to position the pilot spindle, an input member engaging the end of the lever remote from the first piston, and variable abutment means interposed between the other end of the lever and the first piston, said abutment means comprising a slider member adapted to be positioned linearly in a direction generally parallel to the lever, and a second lever member pivoted at one end to said slider and having a mid-portion engaged by the end of the first piston, the other end of said second lever having a member engaging the adjacent end portion of the first lever, and means for positioning said slider towards and away from the first piston to vary the position at which said second lever end portion engages the first lever relative to the axis of the piston.

2,659,350

FEED WATER REGULATION

Denton K. Swartwout III, Chagrin Falls, and Roger L. Gilliland, Euclid, Ohio, assignors to The Swartwout Company, Cleveland, Ohio, a corporation of Ohio

Application March 3, 1948, Serial No. 12,834
13 Claims. (Cl. 122—451.2)



1. The method of feeding water to a steam boiler which comprises maintaining a substantially constant rate of feed while the load is substantially constant, creating a first effect independently of boiler drum pressure initially substantially directly proportional to the rate of change of boiler load, creating a second effect substantially proportional to the swell or shrink in boiler water level due to change in load, balancing said effects against each other to neutralize said effects and maintain the said substantially constant rate of feed while the load is changing and while the said water level is swelling or shrinking, and after the load has changed causing the first effect to diminish entirely but more slowly than the second effect and changing the rate of feed directly from said constant rate only in the direction corresponding to the direction of the change in load.

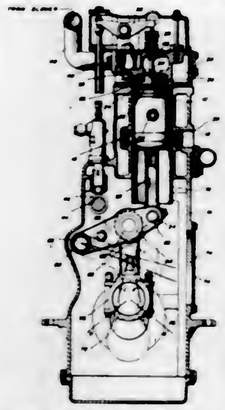
2,659,351

INTERNAL-COMBUSTION ENGINE

Clarence C. Chronic, Wheeler, and Clifford A. Shaffer, Charleston, Ill., assignors to Lever Motors Corporation, Wheaton, Ill., a corporation of Illinois

Application January 23, 1950, Serial No. 139,986
2 Claims. (Cl. 123—65)

1. In an internal combustion engine of the lever type having a piston with an extending pivoted piston rod, a crank shaft having a crank with an extending pivoted connecting rod and a lever pivotally mounted at one end and pivotally connected to the ends of the piston rod and the connecting rod, the connecting rod being pivoted to the lever at a distance from the pivot of the lever substantially two-thirds of the distance of the pivot of the piston rod from the pivot of the lever, the arrangement being such that the connecting rod and the piston rod are substantially parallel to each other and to the axis of the pis-



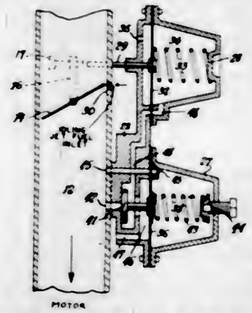
ton at both limits of the stroke of the piston and the axis of the crank shaft is in the vertical plane of the connecting rod when said rod is at either of the limits of the stroke of the piston an air inlet valve in the cylinder head of the engine, and exhaust port openings in the lower portions of the cylinder and uncovered when the piston is near the lower end of its stroke at which position a slower piston movement is obtained to provide a longer scavenging cycle, a relatively shorter exhaust cycle, and an expansion stroke of greater duration than the compression stroke.

2,659,352

APPARATUS FOR REGULATING THE PASSAGE OF FUEL IN CARBURETOR MANIFOLDS

Leonard Troy, Clarks Summit, Pa.

Application July 15, 1950, Serial No. 174,019
7 Claims. (Cl. 123—102)



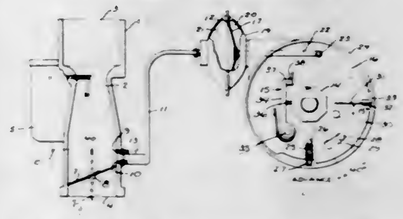
1. The combination with a carburetor manifold, a throttle valve therein, means for manually operating said valve to shut off the fuel supply passing through the manifold to a motor for operating the same, a movable idle stop, said idle stop normally opposing complete closure of said throttle valve, a device for retracting said idle stop to permit complete closure of said throttle valve and for thereafter moving said idle stop in the opposite direction to open said valve, and means for operating said device in response to a predetermined variation in air pressure in said manifold.

2,659,353

IGNITION TIMING CONTROL MEANS FOR INTERNAL-COMBUSTION ENGINES

Marion Mallory, Detroit, Mich.

Application July 16, 1951, Serial No. 237,037
11 Claims. (Cl. 123—117)



1. In an internal combustion engine the combination of an ignition timer operatable through a given range measured in degrees to advance and retard the ignition spark, a fuel mixture intake passageway, a manually controlled throttle valve for said intake passageway, a suction device responsive to intake passageway pressure for advancing and retarding said ignition timer, a conduit connecting said fuel mixture intake passageway with said suction device, said conduit communicating with said intake passageway adjacent to, and on the atmosphere side of, said throttle valve when the throttle valve is closed in idle position and communicating with said intake passageway simultaneously on both the inlet and outlet sides of said manually controlled throttle valve when the valve is partly open, the area of communication between said conduit and intake passageway being always located between the valve when closed for idle and a plane passing through the upstream tip of the throttle valve and perpendicular to the plane of the throttle valve when wide open and being located entirely on the outlet side of the throttle valve when the throttle valve is open to a position greater than substantially half way between idle and fully opened positions.

2,659,354

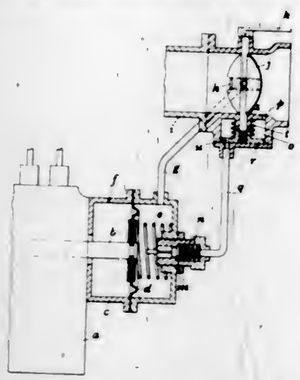
GOVERNOR FOR LIQUID FUEL INJECTION PUMPS

Wilfrid Edward Walter Nicolls, Pinner, England, assignor to C. A. V. Limited, London, England

Application January 2, 1952, Serial No. 264,536
Claims priority, application Great Britain January 10, 1951
2 Claims. (Cl. 123—140)

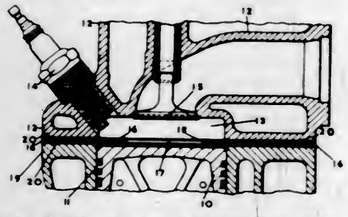
1. A governor for a reciprocating plunger pump for injecting liquid fuel into an internal combustion engine having an air manifold controlled by a throttle comprising in combination with a movable element of the pump for varying the pump output, a pressure responsive member for actuating said movable element in response to the suction in the engine air manifold, a normally closed valve for admitting air to said pressure responsive member and adapted to be opened by a movable part of the governor when said movable element is in a position corresponding to minimum fuel supply, and means actuated

in conjunction with the air manifold throttle for isolating said valve to prevent operation



thereof when the engine is working at other than idling speed.

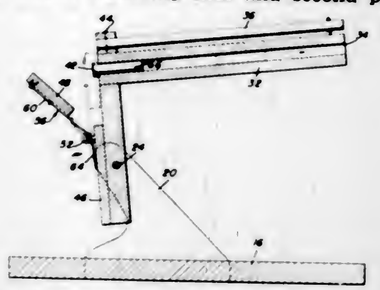
2,659,355
COMBUSTION CHAMBER OF INTERNAL-COMBUSTION ENGINES
William Layland, Kings Heath, Birmingham, England, assignor to The Austin Motor Company Limited, Northfield, Birmingham, England
Application December 11, 1951, Serial No. 261,071
5 Claims. (Cl. 123—191)



5. In an internal combustion engine having at least one piston and cylinder and a cylinder head having a combustion chamber containing a pair of valves and a spark plug for each piston and cylinder, a separate plate of metal of good thermal conductivity gripped between the cylinder head and cylinder block, said plate being provided with single openings each registering with a cylinder and each opening being of less area than the cross-sectional area of the cylinder, so that portions of said plate extend transversely to afford a restricted passage through which the charge must pass under the action of the piston, the edge of each opening when projected axially of the cylinder into the combustion chamber in the head defining thereon an area which includes the heads of the valves.

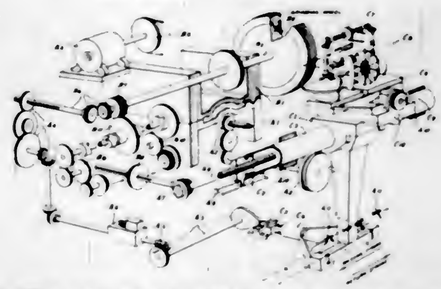
2,659,356
TOY CANNON
Edward S. Leach, Portland, Oreg.
Application May 18, 1951, Serial No. 226,979
1 Claim. (Cl. 124—26)

A game apparatus comprising an elongated rectangular base having a pair of upstanding bearing plates secured to opposing longitudinal edges thereof, a barrel-supporting plate pivotably carried by said bearing plates and having an opening formed therethrough adjacent its upper end, a barrel formed from a dowel having a longitudinal bore therein being received in said opening and fixedly secured to said barrel-supporting plate, and firing means attached to said barrel-supporting plate for engaging a projectile disposed in the barrel for ejecting the same, said barrel having a retaining strap loosely positioned over the bore of the end of said barrel in said supporting plate whereby projectiles positioned in said bore will be retained therein, said firing means including first and second plates,



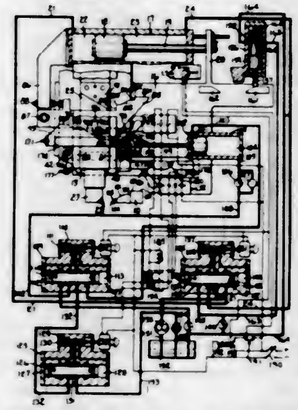
said first plate being fixedly secured to said barrel-supporting plate and having a coiled torsion spring carried thereby, a bail wire pivotally carried by said first plate and engaged by said torsion spring whereby the bail wire is urged to a first position, said second plate being fixedly secured to said bail wire for pivoting therewith, said second plate being movable to a firing position in opposition to said torsion spring, and releasable for engaging said strap for effecting ejection of said projectile from the barrel.

2,659,357
METHOD AND APPARATUS FOR DRESSING HELICAL GRINDING WHEELS
Joseph J. Osplack, Detroit, Mich., assignor to Vinco Corporation, Detroit, Mich., a corporation of Michigan
Application October 21, 1949, Serial No. 122,686
12 Claims. (Cl. 125—11)



1. The method of dressing threads on the circumferential face of an abrasive wheel which includes repeated cycles including the steps of bringing a rotating circular series of discrete diamond-pointed cutting tools into contact with a point on said face while simultaneously rotating said wheel in the direction to produce peripheral motion thereof in the same direction as, but at a rate substantially less than, the peripheral motion of said series and moving said series axially of said wheel across said face at a rate equal to one lead of the thread to be dressed thereon for each revolution thereof and between each of said cycles moving the point of contact of said series with said wheel a predetermined distance from the greatest diameter thereof inwardly along the specification surface of the thread to be dressed thereon.

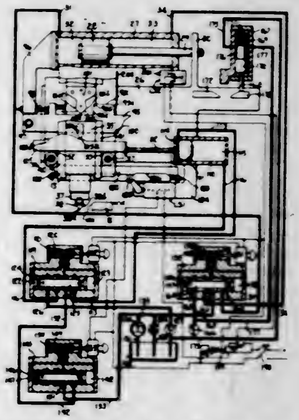
2,659,358
GRINDING WHEEL TRUING APPARATUS
Oiva E. Hill, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application May 8, 1951, Serial No. 225,199
5 Claims. (Cl. 125—11)



1. In a grinding wheel truing apparatus having a slide base, a longitudinally reciprocable slide thereon, a transversely movable truing tool carrier on said slide, a truing tool thereon, means including a piston and cylinder on said base to traverse said slide longitudinally, means including a follower on said carrier which operatively engages a forming bar on said slide to impart a controlled transverse movement to the truing tool carrier during longitudinal movement of the slide, means including a longitudinally movable cam on said slide, a follower on said carrier which engages said cam to impart a transverse movement to the carrier for truing a shouldered face on a grinding wheel being trued, means including a cylinder on said slide, a slidable piston therein which is operatively connected to said cam to move said cam longitudinally relative to said slide, said first follower and forming bar serving to hold said slide stationary during movement of said cam, and control means including a control valve mechanism operatively connected to both of said cylinders alternately and successively to traverse said slide longitudinally and to traverse said cam longitudinally relative to the slide to generate a predetermined contour on the operative face of a grinding wheel.

2,659,359
GRINDING WHEEL TRUING APPARATUS
Oiva E. Hill, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application May 15, 1951, Serial No. 226,453
4 Claims. (Cl. 125—11)

3. In a grinding wheel truing apparatus for a grinding machine having a rotatable grinding wheel including a base, a longitudinally reciprocable slide thereon, a cylinder containing a slidable piston operatively connected between the base and slide to traverse said slide longitudinally, a transversely movable truing tool carrier on said slide, a truing tool holder thereon having a plurality of spaced truing tools, one of said truing tools being arranged for a peripheral truing operation and two spaced truing tools being arranged for opposed side truing operations, a forming bar fixedly mounted relative to the base, an arrow-pointed follower on said carrier, said truing tools being shaped and positioned to correspond with the shape of the apexes of said follower, a longitudinally movable cam on said slide, a second follower on said carrier arranged to engage said cam, a cylinder containing a slidable piston operatively connected between the slide and cam to move said cam longitudinally relative to said slide to cause a transverse movement of the carrier and truing tools, a control valve operatively connected with said first cylinder to control the admission to and exhaust of fluid from the slide cylinder to cause the first apex on said follower to move into operative engagement with the follower, a second control valve

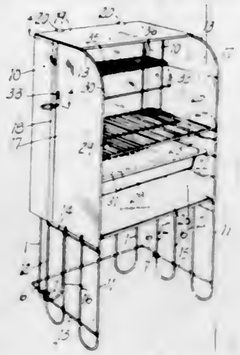


operatively connected with said second cylinder to control the admission to and exhaust of fluid from the cam cylinder, means actuated by and in timed relation with the longitudinal movement of the slide to actuate said second control valve so as to cause a transverse movement of the carrier so that the first apex and the first truing tool move in a transverse direction for a side truing operation and to true a partial radius thereafter, said slide piston serving thereafter to cause a longitudinal movement of the first follower relative to the forming bar to move the second apex into operative engagement therewith so that the peripheral truing tool completes the radius and trues a peripheral surface and a partial radius at the end thereof, said first follower thereafter moving relative to the forming bar to position the third apex in operative engagement therewith to move the second side truing tool into operative position to complete the latter radius and to move transversely for a side truing operation.

2,659,360
PORTABLE OUTDOOR COOKING OR CAMP STOVE
Dewey H. Bitney, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich.
Application November 10, 1950, Serial No. 195,685
11 Claims. (Cl. 126—25)

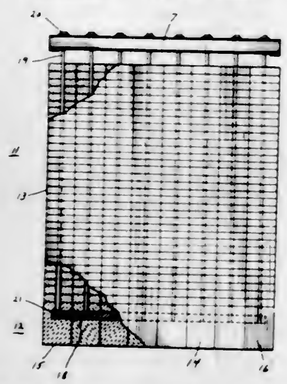
1. In a portable outdoor stove, the combination of a back member comprising uprights, vertically spaced top, bottom and intermediate crosspieces

connecting the uprights and having forwardly projecting arms at their ends terminating in eyes, the lower ends of the uprights being looped upwardly and secured to the lower and intermediate crosspieces to constitute legs, a back panel fixedly secured to said top and intermediate cross members and having forwardly projecting flange-like rear side wall portions fixedly secured to the forwardly projecting arms of the top and intermediate crosspieces, side members comprising front and rear uprights, vertically spaced top, bottom and intermediate crosspieces connecting



said front and rear uprights, the lower ends of the uprights being bent upwardly and secured to the bottom and intermediate crosspieces to constitute legs, the rear side member uprights being pivotally engaged in the eyes of said back member crosspiece arms, side wall panels fixedly secured to said side member uprights, opposed pairs of vertically spaced rails mounted on the inner sides of said side member uprights, a member provided with rail engaging lugs engageable with a pair of said rails, and a top hinged to the back member to rest on the upper edges of the side members when erected or to be swung to a collapsed position at the rear of the back member.

2,659,361
REFRACTORY DAMPER
Francis C. Holbrook, Brooklyn, N. Y.
Application April 15, 1950, Serial No. 156,133
4 Claims. (Cl. 126—285)



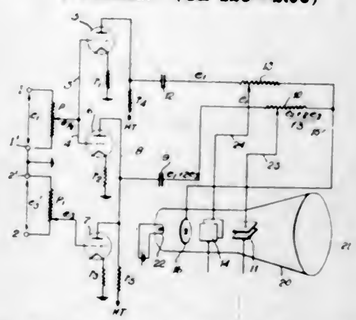
3. A flue damper comprising a plurality of courses of refractory units provided with an interiorly disposed metallic framework for positioning and supporting the units for vertical movement, the lowermost of said courses comprising units composed of a homogeneous composition of dense wear-resistant refractory recessed to receive a load-bearing member of the metallic framework, and other courses including units composed of a homogeneous composition of light-weight insulating refractory, said other courses being supported in superposed relation on said lowermost course, the abutting faces of all of the units being complementary and separable from each other to permit replacement of individual units.

2,659,362
FOOD WARMING MEANS
Henry O. Strehl, Chicago, Ill.
Application October 5, 1951, Serial No. 249,987
2 Claims. (Cl. 126—390)



1. In food warming means for use with a covered container for food adapted to be placed within the influence of a source of heat, that improvement comprising, an upwardly recessed member disposed interiorly of the container and overlying the bottom wall thereof, said member providing an air space between itself and the container bottom wall, a pipe communicating with said air space and extending upwardly from the member adjacent the side wall of the container, said pipe at its upper end opening into the space in said container above the normal food level therein and below the cover for the container, and a second pipe communicating with said air space and opening to the outside of the container adjacent the top of the container below the cover.

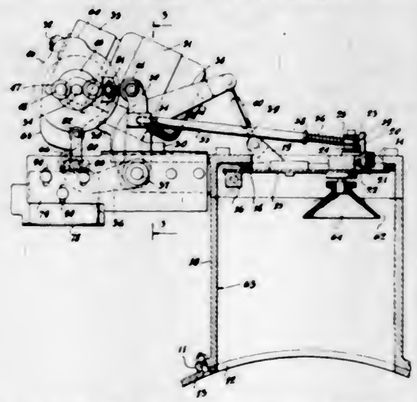
2,659,363
ELECTROCARDIOVECTOGRAPHIC DEVICE
Michel Brosselin, Courbevoie, France, assignor to Société dite: Usines Gallus (Societe Anonyme), Courbevoie, France, a French corporation
Application August 2, 1949, Serial No. 108,119
Claims priority, application France August 3, 1948
7 Claims. (Cl. 128—2.06)



1. In an electrocardiograph for producing a pattern characteristic of the central cardiac vector from two component vectors derived from electromotive forces in the body of a person being examined and disposed at an angle of less than

ninety degrees to one another, a cathode ray tube having two pairs of deflecting plates disposed at right angles to one another, means for obtaining voltages proportional to said component vectors, means for amplifying one of said voltages and applying it to one of said pairs of plates, means for amplifying the other of said voltages, circuit means for algebraically adding one of said amplified voltages and a multiple of the other, and circuit means for dividing said sum by a trigonometric function of said angle and applying said divided voltage to the other of said pairs of plates.

2,659,364
COUGHING VALVE
Paul M. W. Bruckmann, Alpine, N. J., assignor to The de Florez Company, Inc., New York, N. Y., a corporation of Delaware
Application October 16, 1952, Serial No. 314,983
16 Claims. (Cl. 128—30)



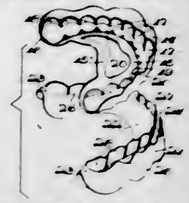
1. A coughing valve mechanism adapted to be readily attached to or detached from an iron lung, comprising a housing which connects with the interior of the lung, an intake opening in the housing, a valve mounted on the housing and adapted to be seated to cover said opening, means for cyclically closing the valve, latches for holding the valve closed against external air pressure, and means coordinated with the closing means for releasing the latches to suddenly open the valve.

2,659,365
THERAPEUTIC APPARATUS
Mack O. Lewis, Detroit, Mich.
Application December 1, 1951, Serial No. 259,470
2 Claims. (Cl. 128—33)



1. Therapeutic apparatus comprising, a base, a single piece of solid sheet material fixed to said base, a metallic screen rigidly fixed at spaced intervals to said sheet member extending over substantially the entire area of one face of said sheet member, an electric motor having a rotatable shaft, said motor being secured to said sheet member in direct contact with said screen, and an eccentrically mounted weight on the shaft of said motor.

2,659,366
MOUTHPIECE TO BE WORN BY ATHLETES
Albert J. Savarese, Glendale, Calif.
Application February 5, 1952, Serial No. 270,047
2 Claims. (Cl. 128—136)



1. A dental appliance to be worn upon the teeth of athletes or the like to protect the teeth from injuries due to blows applied to the face or the like, said appliance comprising rigid buccal and lingual substantially U-shaped members, each substantially U-shaped member being formed of a rigid thin sheet of metal material, the lingual substantially U-shaped member being arranged within the buccal substantially U-shaped member and spaced from the same for forming a passage for receiving the teeth, the open ends of the substantially U-shaped members being arranged in a posterior position, and the posterior ends of the buccal substantially U-shaped member being rigidly secured to the posterior ends of the lingual substantially U-shaped member, the anterior portion of the buccal member being adapted to substantially completely cover the front of the anterior teeth and being adapted to extend from the gum to substantially the bite of the anterior teeth, the anterior portion of the lingual member being adapted to only partly cover the rear of the anterior teeth and being adapted to extend from the gum and to terminate short of the bite of the anterior teeth, the sides of the buccal and lingual members being adapted to extend over only a portion of the posterior teeth and adapted to extend from the gum and adapted to terminate short of the bite of the posterior teeth, the buccal and lingual members being provided with recesses for receiving the anterior and posterior teeth, said recesses being formed in opposed pairs and accurately shaped to fit the teeth so that the appliance is held in place by the engagement of said members about and over the teeth, the arrangement being such that the sides of the appliance are securely anchored to the posterior teeth against relative movement so that the anterior end of the appliance can offer powerful resistance to blows applied to the same.

2,659,367
DROP-SEAT PANTY
Paula Blatt, Cleveland, Ohio
Application March 29, 1952, Serial No. 279,410
4 Claims. (Cl. 128—149)



1. A drop-seat panty, adapted to be worn beneath a girdle or the like, comprising a front part, a rear part and an intermediate crotch

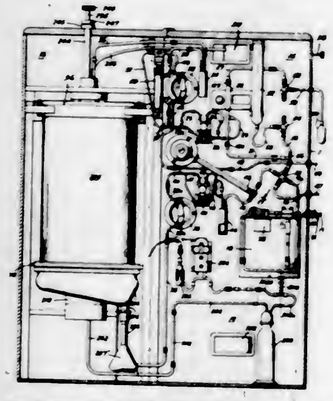
part all connected together as a unitary body, said parts at the right and left thereof together forming inner portions for the right and left legs, respectively, of the wearer, a longitudinally elastic strip adapted to extend in each instance about the leg of the wearer and attached at its ends to the front and rear ends of said leg portions, a longitudinally elastic main strip attached at the ends thereof to the top edge of said front part at symmetrically located points at the right and left thereof and adapted to extend about and to be supported upon the hips and back region of the wearer, and auxiliary longitudinally elastic strips attached at their lower ends to the upper edge of said rear part at symmetrically located points at the right and left thereof and attached also to the said main strip at symmetrically located points to the rear and above the elevation of the hips of the wearer, said points of attachment of said auxiliary strips to said main strip corresponding to points closely adjacent to the hips of the wearer so that the upper parts of said auxiliary strips will be adapted to co-operate with the forward parts of said main strip in providing a substantially U-shaped means of supporting engagement upon the hips of the wearer.

2,659,368

EXTRACORPOREAL CIRCULATION DEVICE

John H. Gibbon, Jr., Philadelphia, Pa., Gustav V. A. Malmros, Binghamton, John R. Engstrom, Endicott, and Edmund A. Barber, Jr., Johnson City, N. Y., assignors to The Jefferson Medical College of Philadelphia, Philadelphia, Pa., a nonprofit corporation of Pennsylvania

Application May 28, 1949, Serial No. 96,114
21 Claims. (Cl. 128—214)



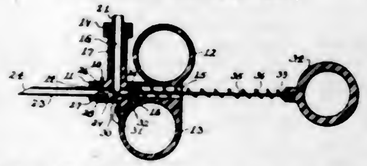
1. An extracorporeal circulation device comprising, in combination, means for introducing oxygen into a flowing blood stream, a venous blood system intermediate said first mentioned means and a blood source, including, pumping means for moving venous blood from said source to said oxygenating means, light-responsive control means associated with said venous pumping means sensitive to occlusion of said blood source for controlling the rate of pumping of said pumping means; an arterial blood system intermediate said first mentioned means and a blood receiver including arterial pumping means for moving arterial blood from said oxygenating means to said blood receiver, control means associated with said arterial pumping means responsive to the rate of blood flow for controlling the rate of pumping of said arterial pumping means, an insulated housing enclosing said oxygenating means and said venous and arterial blood systems, an air circulatory system contained within said housing, heating means disposed in said air circulatory system, and control means responsive to the air temperature for regulating said heating means whereby said extracorporeal circulation device is maintained at a predetermined temperature.

2,659,369

PELLET IMPLANTER

Michael G. Lipman, Vineland, N. J.

Application November 13, 1952, Serial No. 320,186
7 Claims. (Cl. 128—217)



1. In a pellet implanter for use in injecting a medicinal pellet beneath the skin of fowls and animals, comprising a body including a barrel having a longitudinal bore therethrough with opposed shoulders intermediate the ends of said bore, said bore consisting of a needle receiving chamber at the forward end and a socket at the rear end with a communicating duct between said chamber and socket, a pellet feeding pillar formed with said barrel and having a bore communicating with the chamber portion of the barrel bore and provided with means at the outer end of said pillar to demountably receive a receptacle for holding a quantity of pellets to flow through the pillar to the barrel, and fingerholds at opposite sides of the rear end of the barrel, an elongated tubular needle having an inturned flange at its inner end permanently mounted in the chamber portion of the barrel bore with flanged end abutting a shoulder in said barrel bore, said needle having an opening aligned with the bore of the pillar whereby pellets may enter the bore of the needle, a spring actuated stop located forward of said needle opening a sufficient distance to temporarily retain a pellet in the needle directly in line with the bore of the pillar, a plunger slidably mounted in the needle and being stopped in its retracted position by the flanged end of said needle, a stem projecting from the plunger and extending through the flanged inner end of the needle, the duct and the socket and protruding an appropriate distance beyond the rear end of the barrel and provided with a thumbpiece for propelling the plunger forward and limiting the forward movement of the plunger to the forward end of the needle by engagement of the thumbpiece with the rear end of the barrel, and a spring seated in the socket portion of the barrel bore and engaging the thumbpiece to retract the plunger.

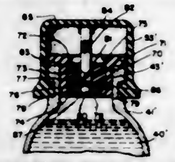
2,659,370

CLOSURE

Arthur E. Smith, Los Angeles, Calif.

Application August 26, 1950, Serial No. 181,670
2 Claims. (Cl. 128—272)

1. A closure comprising a body portion having a sleeve portion adapted to fit within a bottle neck, said sleeve portion having an axial recess therein, a container in said recess, said container having a recess therein, a diaphragm closing the inner end of said container recess, a closure for said container, said container closure being disposed in said sleeve portion recess and engaging said container to close said container recess, said container closure having an axial hole therein, a diaphragm closing the inner end of the hole, a



medicinal preparation in said container recess, a tubular piercing member having a bevelled sharpened lower end disposed in said hole, and a resilient cap on the outer end of said piercing member.

2,659,371

SURGICAL CLAMP

Charles F. Schnee, Setauket, N. Y.

Application November 27, 1951, Serial No. 258,412
5 Claims. (Cl. 128—346)



2. A surgical clamp including a fixed clamping bar, a ratchet bar extending at right angles and connected at one end to each end of the fixed bar, teeth on one surface of each of said ratchet bars, another clamping bar movable longitudinally of and guided by said ratchet bars toward and away from said fixed bar, a tooth on each end of said movable bar to mesh with the teeth on said ratchet bars, said movable bar also being laterally movable relatively to said ratchet bars, and means for biasing the movable bar toward and holding it in contact with said ratchet bars.

ERRATUM

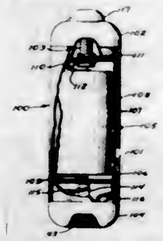
For Class 129—7 see:
Patent No. 2,659,512

2,659,372

ION THERAPY DEVICE COMPRISING A HAND ELECTRODE

Gilbert J. C. Andresen, Stow, Ohio

Application February 1, 1950, Serial No. 141,749
11 Claims. (Cl. 128—406)



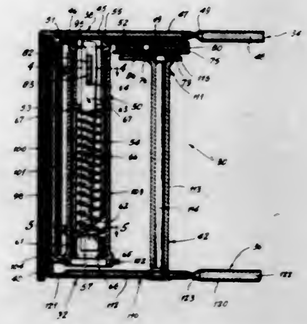
2. An ion therapy device comprising a hollow handle electrode, an applicator electrode, a voltage cell received within said handle electrode, an electrical resistance of at least .1 megohm, and means connecting said voltage cell and resistance in series between said handle electrode and applicator electrode.

2,659,373

LOOSE-LEAF POST BINDER

Walter E. Schroer, Affton, Mo., assignor to Loose Leaf Metals Co., St. Louis, Mo., a corporation of Missouri

Application November 30, 1950, Serial No. 198,259
2 Claims. (Cl. 129—8)



1. In a loose leaf binder, in combination, a first assembly having an upper flap hinged thereto, a second assembly having a lower flap hinged thereto telescopically associated with said first assembly, said first assembly comprising two angle members secured together in semi-nested relation so as to provide a slot between parallel disposed flanges thereon, said second assembly comprising two hinged plate members, one of said plate members, but not the other thereof, being adapted slidably to occupy the aforementioned slot, a first expansible means associated with said first and second assemblies for retaining loose leaves including a plurality of posts and sleeves in respective telescoping engagement, said first expansible means comprising two separable units, one of said separable units being secured to said other plate member against removal and the other of said separable units being selectably releasable from said first assembly for bodily removal from said loose leaf binder, a second expansible means associated with said first and second assemblies for maintaining the same in cooperative relation one with the other including first and second sleeves in telescoping engagement, said first sleeve being secured to said first assembly, said second sleeve being secured to said one of said plate members, means disposed within said first sleeve for selectably binding the same against movement in at least one direction relative to said second sleeve, and a member reciprocably mounted on said first assembly selectably releasing said binding means when in an intermediate position and effecting release of said other of said separable units from said first assembly when in one extreme position of movement, said reciprocable member both locking said binding means and securing said other of said separable units against release when in said other extreme position of movement.

2,659,374

STRAW CONVEYER FOR GRAIN COMBINES

Dan P. Keith, Lubbock, Tex.

Application March 31, 1950, Serial No. 153,211
1 Claim. (Cl. 130—26)

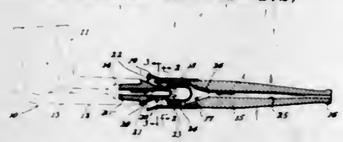
A straw walker for grain combines comprising a channel member, teeth rising from the sides of the member, an inverted V-shaped grain deflector positioned longitudinally in the member to discharge grain falling into the member from the

sides thereof at the base of the teeth, and means operating the member in an oscillating move-



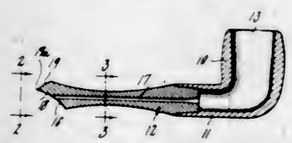
ment to feed straw from one end toward the other.

2,659,375
PIPE PRECONDITIONER
Harlow B. Grow, Linden, Mo.
Application March 15, 1949, Serial No. 81,545
12 Claims. (Cl. 131—172)



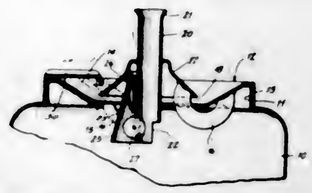
1. In a pipe pre-conditioning appliance of an aspirator construction, means for conveying air in one direction, said means comprising a tubular member, resembling a pipe stem, and having a mouthpiece at one end, other means in cooperation with and located at the other end of the tubular member for drawing a mixture of smoke and air in the opposite direction and for discharging it in substantially that one direction, said other means comprising a substantially conical body having a central passage, the apex of that body being directed towards said mouthpiece, a cup-like element spaced from and surrounding the apex, and said conical body having an extension for engagement with the shank of a pipe in place of an usual pipe stem.

2,659,376
MOUTHPIECE FOR SMOKING UTENSILS
Irving Florman, New York, N. Y.
Application September 28, 1950, Serial No. 187,272
1 Claim. (Cl. 131—227)



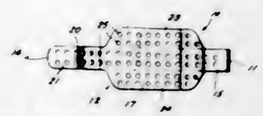
A mouth piece for a smoking utensil, comprising an end portion terminating in a tip end, said portion being cut away from a first location spaced inwardly and downwardly of said tip end toward the latter to define a concave under surface curving upwardly from said first location toward and terminating at said tip end, said portion being further cut away from a second location substantially longitudinally of intermediate said first location and said tip end and spaced inwardly and upwardly of said tip end toward the latter to define a convex upper surface curving downwardly from said second location toward and terminating at said tip end, said mouth piece being provided with a smoke passageway extending therethrough and having one end terminating in communication with said concave under surface at a third location intermediate said tip end and said first location, the portion of said concave under surface intermediate said third location and said tip end being formed to cooperate with said convex upper surface to provide a ridge, said convex upper surface meeting said lower concave surface along lines of intersection flaring laterally outwardly from said tip end and extending inwardly of said portion.

2,659,377
CIGARETTE EXTINGUISHER
James B. Fisher, Pacific, Mo.
Application January 13, 1950, Serial No. 138,363
4 Claims. (Cl. 131—235)



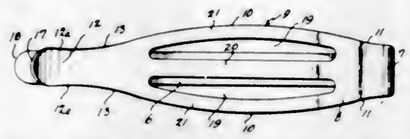
4. In a cigarette extinguisher, a base adapted to fit over a receptacle, the base having a centrally and inwardly extending portion with an opening at its inner end, a downwardly and outwardly extending shield above the opening and having its lower edge spaced from the base to provide an ash slot; a tubular member mounted on the shield, and extending therethrough so as to have an outer end and an inner end, the tube having a length approximately that of a standard cigarette, one side of the inner end of the tube having a vertical slit, a cover of U-shaped cross section attached to the side of the tube over said slit and beneath the shield, a U-shaped hanger alongside the tube with a pivotal connection to the sides of the cover at the upper end of the cover, a wheel rotatably mounted on the hanger adjacent the slit, light spring means urging the hanger toward the tube to dispose the edge of the wheel through the slit, the lower edge of the tube opposite the wheel having a recessed portion, and means on the base for attachment to a container.

2,659,378
PIN CURL CLIP
Victor Caserta, Bridgeport, Conn.
Application May 5, 1951, Serial No. 224,683
1 Claim. (Cl. 132—46)



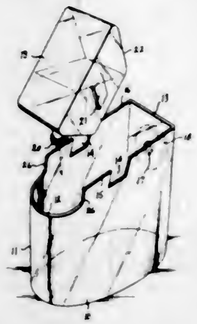
A self-opening pin curl clip comprising a body consisting of a single length of stock bent upon itself intermediate its ends and comprising a base arm and a superimposed outer arm connected by a bight portion, said base arm being flat and straight throughout its length, said outer arm comprising an intermediate laterally enlarged longitudinally and transversely flat portion and terminating at its forward end in a narrower end portion inclined outwardly away from the base arm and forming with the free end portion of the base arm an unobstructed entrance throat for a curl.

2,659,379
PIN CURL CLIP
Victor Caserta, Bridgeport, Conn.
Application March 21, 1952, Serial No. 277,813
2 Claims. (Cl. 132—46)



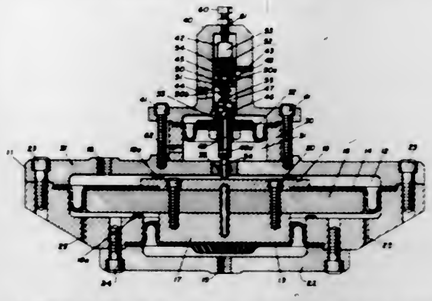
1. A pin curl clip comprising a single strip of resilient spring material bent upon itself intermediate its ends providing connected inner and outer arms, the inner arm being substantially straight and of substantially uniform width, the outer arm being closely adjacent the inner arm and including a widened intermediate portion having convexly curved outer side edges running gradually into narrower portions at its opposite ends, said widened portion comprising laterally spaced narrow side bars at its opposite edges and a narrow central longitudinal bar between and spaced from the side bars forming longitudinal elongated ventilating openings therewith, and the reduced free end portion of the outer arm being inclined outwardly away from the inner arm forming a tapered entrance throat therewith for insertion of a curl between the arms.

2,659,380
DEVICE FOR CLEANING DENTURES
Albert P. Jackson, Des Moines, Iowa
Application May 12, 1951, Serial No. 225,978
2 Claims. (Cl. 134—170)



1. A denture cleansing device, comprising, a container in which to place dentures for cleansing, said container provided with an open top and also with an inlet opening in one of its sides; said inlet opening designed to communicate at times with a source of water supply, a closure member for said container, said closure member having a diagonal shape at one end and provided on the opposite end with a depression, said closure member mountable partially within the open top of said container to form a closure therefore except for said depression which will be spaced from and complementary to a portion of the open top to provide an outlet from said container, and said diagonal shaped end of said closure member presenting a sloped surface in the path of any water flowing through said inlet opening whereby such water is deflected to create a turbulent action in said container before it passes out of said outlet.

2,659,381
PRESSURE AMPLIFYING DEVICE
Arthur L. Seljos, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application August 17, 1951, Serial No. 242,302
2 Claims. (Cl. 137—85)

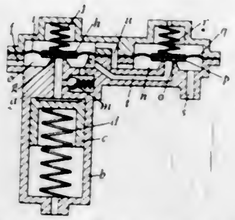


1. A device for converting pressure which comprises, in combination, a first housing enclosing a first chamber, opposed first and second diaphragms arranged in said first chamber, means connecting said first and second diaphragms, said first housing defining a first inlet to the first diaphragm adapted to be connected to a first source of fluid pressure and a second inlet to the second diaphragm adapted to be connected to a second source of fluid pressure, a second housing mounted on said first housing enclosing a second chamber, a third diaphragm arranged in said second chamber, a valve housing mounted on said second housing having first and second ports adapted to be connected, respectively, to a third source of pressure and to a pressure indicating means, a valve means arranged in said valve housing operatively connected to said third diaphragm including first and second spaced apart interconnected closure means, first and second seating means for said closure means, a first passageway in said valve means providing, when open, communication between said ports, a second passageway in said valve means providing communication when open between said second port and a space in said second chamber below said third diaphragm and with the atmosphere, a first biasing means normally urging said first closure means against said first seating means, second biasing means normally urging said first seating means against said first closure means, and pressure transmitting means slidably arranged in a wall between said second housing and said first housing operatively connected to said third diaphragm and said valve means and arranged to transmit relative movement between said first and second diaphragms and said third diaphragm and to said valve means to open and close said passageways in said valve means.

2,659,382
LIQUID FUEL INJECTION MEANS FOR PRIME MOVERS
Richard Joseph Ifield, Dural, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England
Application December 6, 1948, Serial No. 63,827
Claims priority, application Great Britain January 1, 1948
6 Claims. (Cl. 137—110)

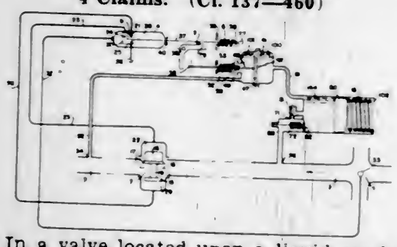
6. For use in a liquid fuel injection system, of the kind specified, means comprising in combi-

nation a cylindrical accumulator chamber, a spring loaded piston slidable in said chamber, an inlet through which said chamber can be charged with fuel against the action of said spring loaded piston, an outlet which has associated therewith a spring loaded release valve and through which fuel from both said chamber and said inlet can flow under the control of said release valve, spring loaded valving means for isolating said



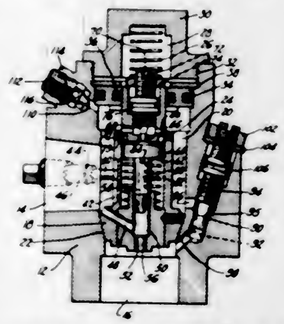
chamber from said inlet during the flow of fuel from said inlet to said outlet, and a passageway through which fuel pressure at said outlet can act on said valving means in opposition to the fuel pressure at said inlet, said valving means being arranged to be opened in response to pressure of fuel supplied to said inlet when said release valve is closed, and to be closed when said release valve is open.

2,659,383
SAFETY DEVICE FOR WATER SUPPLY NETWORKS
Louis Charles Eugène Frager, Paris, France
Application August 7, 1947, Serial No. 767,273
In France July 6, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires July 6, 1964
4 Claims. (Cl. 137—460)



1. In a valve located upon a liquid conduit, a water tight element whose application against an orifice and its recess assures respectively the opening and the closing of said valve, motor means for closing said water tight element, control means for said motor means, a chamber, a flexible membrane dividing said chamber into a first and a second compartment, a first pipe, one of the ends of said first pipe being tapped to a first point of said liquid conduit upstream while the other end is tapped to said first compartment of said chamber, a second pipe, one of the ends of said second pipe being tapped to the second compartment of said chamber and the other end being tapped to a second point of said conduit sufficiently spaced down stream from said first point in order to cause suddenly a difference in pressure between the two tapped points upon said conduit as a function of the second time derivative of the liquid volume which traverses a local cross-sectional area of said conduit, said difference in pressure tending to bring about a deformation of said flexible membrane, means for opposing the deformation of said flexible membrane when said second time derivative does not exceed a predetermined value and for deforming said membrane when said predetermined value is exceeded, means operated by the displacement of said membrane to bring about the action of said control means, said motor means and said water tight element to close said valve when said flexible membrane is deformed simultaneously with a rupture in said conduit and means for preventing the closing action of said valve when the pressure in said conduit increases.

2,659,384
FLUID PRESSURE RESPONSIVE FEED CONTROL VALVE
Theodore M. Lowe, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 19, 1949, Serial No. 88,290
6 Claims. (Cl. 137—599.2)

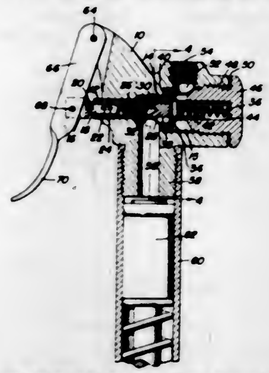


5. A feed control device comprising a housing, a fluid inlet passage, a fluid outlet passage, a passageway connecting said inlet and outlet passages, a pressure responsive valve in said passageway adapted to be opened when the pressure on the outlet side of said valve exceeds the pressure on the inlet side and to be closed when the pressure on the inlet side thereof exceeds the pressure on the outlet side, a second passageway connecting said inlet and outlet passages, a valve in said second passageway, a chamber, means for biasing said second mentioned valve toward an open position, a movable member forming one wall of said chamber and operatively connected to said second mentioned valve for urging said valve toward closed position, and a conduit connecting said cylinder with the first mentioned passageway on the inlet side of said first mentioned valve, said member being adapted to move in the direction to open the valve controlled thereby when the pressure on the outlet side exceeds the pressure on the inlet side of said first mentioned valve.

2,659,385
GAS VALVE
Edward E. Hayden, Visalia, Calif., assignor to California Wire Products Co., Inc., Visalia, Calif., a corporation of California
Application September 20, 1949, Serial No. 116,817
4 Claims. (Cl. 137—627.5)

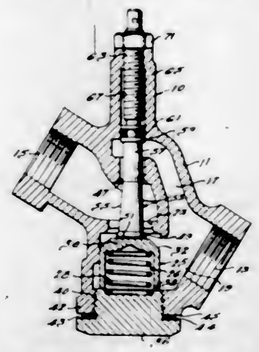
1. A valve mechanism comprising a casing having a longitudinal bore therethrough and a pair of first and second longitudinally offset transverse bores opening perpendicularly into the side wall of said longitudinal bore at diametrically opposite points therealong, said casing having a counterbore in one end thereof in alignment with said longitudinal bore and forming an annular shoulder between said transverse bores, a plug

closing said one end of said casing, a valve actuator pivoted to said casing overlying the other end of said casing and swingable about an axis perpendicular to the axes of said transverse bores, valve means disposed within said longitudinal bore and operated by said actuator to selectively communicate said transverse bores with one another, said valve means including a spring urged



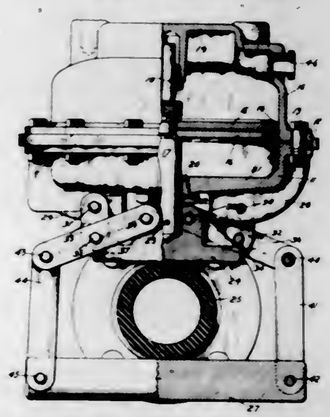
valve seating against said offset shoulder, a sleeve valve pivotally secured to said valve actuator and being slidably disposed in said longitudinal bore at the other end of said casing and a resilient spring interposed between said valves, said sleeve valve having exhaust ports therein adjacent its pivotal connection to said actuator, said exhaust ports being closed when said spring urged valve is open.

2,659,386
SPEED CONTROL VALVE
Charles H. Hallett, Cleveland, and Elmer F. Heiser, Parma, Ohio, assignors to Ross Operating Valve Company, Detroit, Mich., a corporation of Michigan
Application March 13, 1952, Serial No. 276,258
1 Claim. (Cl. 137—630.22)



A speed control valve including a housing having inlet and outlet chambers and an interior fixed control port connecting said chambers, openings in said inlet and outlet chambers an axially adjustable metering valve element associated with said control port for controlling the flow from one chamber to the other through said control port, said housing having a fixed bypass port axially aligned with said control port and metering valve element and forming a fluid passageway connecting said chambers independently of said control port, a check valve element associated with the bypass port for normally preventing flow through the bypass port in the direction from one of said openings to the other but being free to open in response to a pressure at said other opening in excess of that at said one opening, said metering valve having a metering portion formed of a cross-section which progressively decreases along its length in one direction so that the effective size of said control port is increased as the metering valve element is adjusted in the opposite direction, and said check valve element being effective to open said bypass port when it moves in said opposite direction, said valve elements having normally spaced interengageable abutment surfaces which engage after a predetermined movement of said metering valve element in said opposite direction and are effective to cause said check valve element to open with the metering valve element as the metering valve element is moved in said opposite direction beyond said predetermined movement.

2,659,387
PINCH VALVE MECHANISM
Victor Wallace Farris, Tenafly, N. J.
Application February 8, 1950, Serial No. 143,085
2 Claims. (Cl. 137—685)

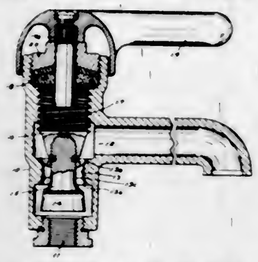


1. A pinch valve comprising: a flexible conduit; a pair of jaw members engaging said conduit at diametrically opposed points; a pair of linkage systems disposed on opposite sides of said conduit and connecting said jaw members; each of said linkage systems including a lever and a link pivotally connected to each other and, at the free ends thereof, directly to said jaw members on opposite sides of said conduit, with the lever of each of said linkage systems pivotally supported at a fixed point intermediate the connections thereof to the adjacent link and the adjacent jaw member; and means for applying force to one of said jaw members; said linkage systems transmitting said force to the other of said jaw members, whereby said jaw members are simultaneously moved in opposite directions.

2,659,388
VALVE WITH TURBULENT FLOW
Henry J. Rand, Bratenahl, Ohio, assignor to Magic Seal, Inc., Bratenahl, Ohio, a corporation of Ohio
Application February 12, 1949, Serial No. 76,073
4 Claims. (Cl. 137—711)

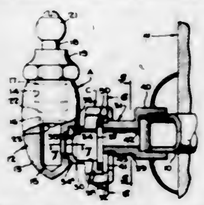
1. A valve comprising a housing having a fluid inlet and a fluid outlet and a connecting passage

there between, said passage having a cylindrical bore near its upstream end, a compressible resilient frusto-conical plug partially and wholly insertable in said bore, said plug having its base of smaller diameter downstream and slightly less in diameter than said bore, said plug having its base of larger diameter upstream and slightly



greater in diameter than said bore, said plug forming an initial line contact at the zone where said plug first engages said bore, and a roughened surface on the side wall of said plug near said base of smaller diameter, said roughened surface being entirely downstream from said zone.

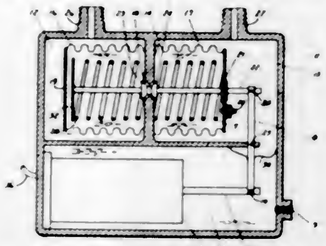
2,659,389
FABRICATED FAUCET FIXTURE
Herbert Harvey, Los Angeles, Calif., assignor to Leo M. Harvey, Los Angeles, Calif.
Application November 14, 1947, Serial No. 785,883
1 Claim. (Cl. 137—733)



A fixture of the character described including, a vertically disposed valve, a coupling at the rear side of the valve, and an outlet duct receiving flow from the valve, the coupling including a fixed tubular element with a reduced base at one end permanently engaged with the valve and in communication with an opening in the rear side of the valve, said element having a head at its other end, a tubular rotatable element with a middle portion, a pipe socket on one end of said portion, and a head engaging flange on the other end of said portion, and a sleeve threaded to the head and holding the flange in engagement therewith, the centers of the flange and socket being offset in opposite directions from the center of said middle portion.

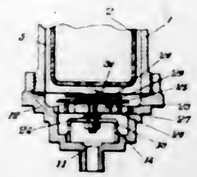
2,659,390
PRESSURE RESPONSIVE DEVICE
Robert K. MacLea, Jr., Greenwich, Conn., Ivan A. Greenwood, Jr., Pleasantville, N. Y., and Herbert Ziebolz, Chicago, Ill., assignors to General Precision Laboratory Incorporated, a corporation of New York
Application June 17, 1948, Serial No. 33,504
1 Claim. (Cl. 137—785)

A differential pressure device of the type described comprising, means for providing two enclosing chambers separated from each other by a partition, an axially expansible chamber member in each of said two enclosing chambers, said expansible chamber members being axially aligned and having their adjacent ends anchored and sealed to said partition with their opposite ends free to move under the influence of pressure in said enclosing chambers, said expansible chamber members being in communication with each other through an orifice in said partition and being filled with a non-compressible fluid, and valve means adapted to seat on valve seats on the opposite sides of said partition to close said aperture when the differential pressure to which



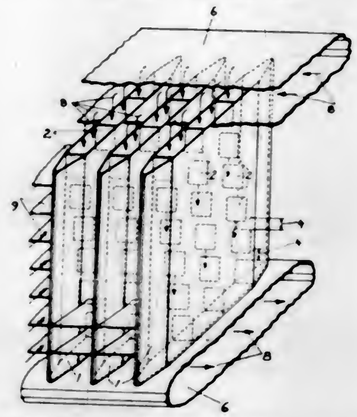
said bellows are subjected exceeds a predetermined amount, resilient means biasing said valve means to a normal position, and means operatively connected only and directly to one of said expansible chamber members for moving said valve means, with said other expansible chamber member being free to move independently of the first expansible chamber members in response to expansion and contraction of said non-compressible fluid, and utilization means responsive to movement of said valve means in accordance with the differential of said pressures.

2,659,391
PNEUMATIC ACCUMULATOR
Maurice Pierre Berger, Paris, France
Application July 2, 1947, Serial No. 758,682
Claims priority, application France July 2, 1946
2 Claims. (Cl. 138—30)



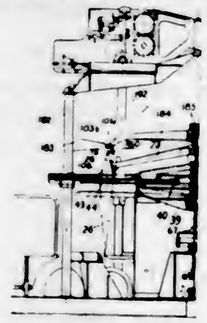
1. An accumulator which comprises, in combination, a container, a flexible partition dividing the inside of said container into two spaces, one of said spaces being filled with a compressible fluid under pressure, said container being provided with an orifice adapted to connect the other space with the outside, whereby said second mentioned space can admit a power transmitting fluid or discharge it through said orifice, and cut-off valve means between the portion of said second mentioned chamber adjacent to said orifice and the remainder of said space, said cut-off valve means including a valve seat provided with holes and having a convex curved face toward said partition, and a plurality of elastically flexible plates fixed at their centers to said face, said plates angularly overlapping one another to constitute a composite disc deformable in response to deformations of said partition, said plates being normally flat so as to be at a distance from said holes but to be applied thereon by said partition in the fully expanded state thereof.

2,659,392
HEAT EXCHANGER
Meyer Frenkel, London, England
Application September 15, 1947, Serial No. 774,151
7 Claims. (Cl. 138—38)



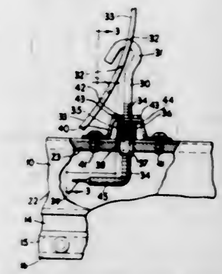
1. A heat exchanger comprising at least one primary heat transferring wall forming, at least in part, a channel for a heat exchange fluid flowing therealong, and a series of secondary heat transferring walls, of which each extends along said channel and has a fraction of the length of said primary heat transferring wall along said channel, the said secondary walls of said series being in a staggered arrangement relative to one another with, for at least two consecutive secondary walls of said series, a gap along said channel between the trailing edge of the one and the leading edge of the consecutive secondary wall, and with at least said two secondary walls of said series out of alignment along said channel with any secondary wall in said channel, and at least one of said two secondary walls having two edges connected to a primary heat transferring wall, the said edges extending along said channel.

2,659,393
ARRANGEMENT FOR THE FORMATION AND BEATING UP OF THE WEFTS IN CIRCULAR WEAVING LOOMS
Jean Dunod, Paris, France, assignor to Qualitex-Société Dunod & Cie, Paris, France, a corporation of France
Application July 26, 1951, Serial No. 238,675
Claims priority, application France July 27, 1950
2 Claims. (Cl. 139—13)



1. Arrangement for the formation and beating up of the wefts in a circular weaving loom in which the shuttles are entrained in a non-positive manner by means of arms revolving solidly with a central vertical shaft, comprising in combination bobbins each comprising a central bore through which the weft thread is passed from back to front and a fixing ring at the front for engaging with the shuttle, shuttles each carrying at the front a fixing clip for engaging with a bobbin and at the rear a tail terminated by a fine point, means on each shuttle for ensuring the entrainment thereof in cooperation with corresponding means carried by corresponding revolving arms, concentric horizontal rails between which the woven fabric is passed, spring-influenced vertically oscillating blades disposed radially beneath the said rails and having at their inner ends tail-like prolongations, arms turning solidly with the said vertical shaft of the loom and distinct from the arms for entrainment of the shuttles, and horizontal wheels carried by these arms and rolling against the tail-like projections of the blades.

2,659,394
LOOM HARNESS CONNECTOR
Frank H. Kaufmann, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 3, 1950, Serial No. 153,557
5 Claims. (Cl. 139—88)

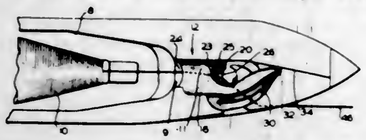


1. In a loom harness, the means for adjustably connecting an actuating strap to a harness frame having a hollow metallic rail, said means comprising a hook member mounted in the outer edge portion of the rail and having a hook portion for engaging a portion of the strap, said hook member having a threaded shank portion, an adjusting nut threaded thereon, the inner end of the shank portion of the hook member extending into the interior of the rail and having a portion bearing against the side walls of the rail thereby to prevent rotation of the hook member.

2,659,395
AUTOMATICALLY THREADING LOOM SHUTTLE
William L. McHargue, Fairfax, Ala., assignor to West Point Manufacturing Company, Shawmut, Ala., a corporation of Alabama
Application April 10, 1951, Serial No. 220,264
4 Claims. (Cl. 139—223)

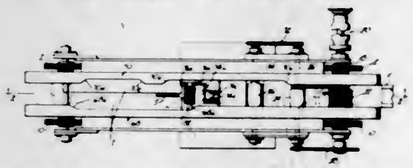
1. In an automatically threading shuttle having an opening to accommodate a filling carrier, an automatic threading block disposed forwardly of said filling carrier and having means to direct the filling thread to a series of thread passages within said block as the shuttle is moved across the loom, means on said block to prevent unthreading once the filling thread has been posi-

tioned within said block, said means comprising a horn member integral with and extending forwardly of said block, a curved finger member depending from said horn member, an inturned hook on said finger terminating short of contact with the forward portion of said block, a second



inturned hook on said finger angularly disposed relative to said first hook, said finger member defining a thread passage leading to a side delivery opening in said shuttle with said hooks acting to prevent displacement of the thread from said passage when in threaded position.

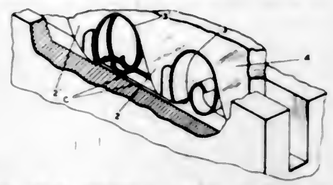
2,659,396
SHAKE BOARD RESAWING MACHINE
Alvin F. Gledhill, Seattle, and Leon R. Lewis, Kirkland, Wash., assignors to Floyd L. Lewis and Leon R. Lewis, doing business as L. R. Lewis Co., Seattle, Wash., a partnership
Application May 15, 1952, Serial No. 287,986
28 Claims. (Cl. 143—10)



27. In a shake board resawing machine, leading and lagging board holding elements gripping the board near opposite ends thereof at an incline relative to the cutting plane, carrier means movingly connected to said holder elements for advancing the board through and beyond the saw, said leading and lagging board holding elements each having abutment means at fixed spacing from the cutting plane contacted by diagonally opposite edges of the board and retractible presser elements contacting the respectively opposite board edges actuatable to press the board against said abutment means, and presser element control means comprising an element operable to deactuate the lagging presser element immediately preceding completion of the resawing of the board, an element operable to reactuate such lagging presser element immediately following passage of the sawn board parts beyond the saw location and thereby support such parts for further advance, and an element operable again to deactuate said lagging presser element for releasing the resawn board parts to permit removal thereof from the machine.

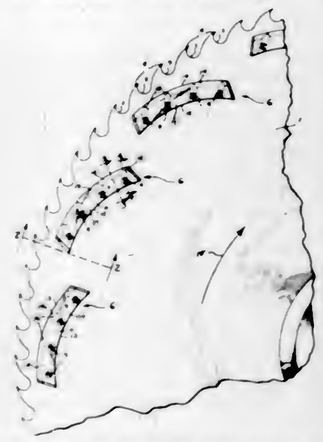
2,659,397
CARBIDE TIPPED PLANER SAW
Claud E. Drake, Brentwood, Mo.
Application December 23, 1948, Serial No. 66,926
5 Claims. (Cl. 143—140)

1. A circular cutter having oppositely presented flat parallel lateral faces and being provided with a plurality of spaced teeth around its periphery, each tooth having an insert carbide tip, said teeth being arranged in sets, each set consisting of at least a leading tooth and a trailing tooth, said leading tooth in each set having greater radial height than the trailing tooth and also having forwardly presented parallel gullet-defining edges which are flush with the lateral faces of the cut-



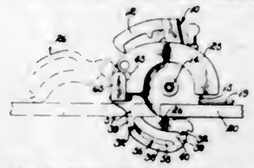
ter, and said trailing tooth having forwardly presented gullet-defining edges which are parallel to and spaced outwardly from the lateral faces of the cutter.

2,659,398
KERF PLANING SAW
Hervey G. Marvin, Molalla, Oreg.
Application June 8, 1951, Serial No. 230,559
8 Claims. (Cl. 143—140)



1. In combination with a peripheral toothed circular saw, a multiplicity of planer blades spaced circumferentially about said saw, said planer blades being arranged in mated, allochiral pairs with the blades of each pair lying against the opposite faces of said saw, and a plurality of lateral guideways bounded by the body of each planer blade and the saw face companion thereto, each said planer blade being tapered longitudinally in a radially inward direction from a width substantially equal to the set width of said peripheral teeth to a slightly greater width.

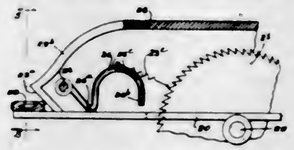
2,659,399
GUARD FOR PORTABLE POWER SAWS
Joe V. Doug, Fresno, Calif.
Application December 1, 1951, Serial No. 259,370
6 Claims. (Cl. 143—159)



2. A portable saw comprising a power driven blade, a fixed guard mounted in housing relation

to a portion of the blade, a handle rigid with the fixed guard for manually urging the saw blade in a predetermined direction in the plane of the blade through work pieces to be cut, and a safety guard pivotally mounted on the fixed guard rearwardly of the blade relative to the predetermined direction of movement thereof for pivotal movement between a position extended forwardly from its pivotal mounting, and a position extended rearwardly therefrom, said safety guard having an edge fitted over the blade in its forward position which edge is adapted slidably to rest on a work piece being sawed when in its rearward position, said safety guard having a handle integral therewith in spaced relation to the edge fitted to the blade and having a finger recess between said handle and safety guard for auxiliary urging of the blade through work pieces when the guard is in rearward position.

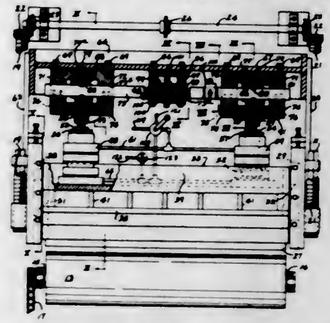
2,659,400
GUARD FOR SAWS
Christian C. Petersen, Brooklyn, N. Y.; Grace Petersen, administratrix, assignor to Grace Petersen
Application December 19, 1947, Serial No. 792,741
5 Claims. (Cl. 143—159)



4. A protective guard means for a saw comprising a support, a movable outer guard mounted thereon, a plurality of work engaging projections pivotally supported on the outer guard and movable substantially in a plane parallel to but out of the plane of the saw, a second plurality of work engaging projections spaced from the first mentioned set of projections a distance apart greater than the width of an operator's finger and out of the plane of the saw, means for connecting the projections to cause them to move as a unit, the projections being so placed out of the saw plane as to leave a clear view from the eye of the operator to the point of action of the saw and in positions to arrest the hand of the operator if brought dangerously near to the saw.

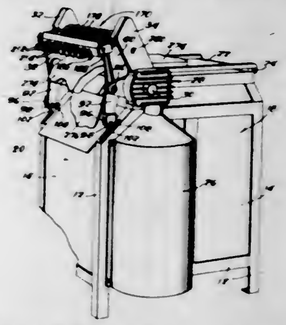
2,659,401
PRESSURE BAR SUPPORT FOR VENEER LATHES
James T. Latimer, Birmingham, Ala., assignor to Jackson Industries Inc., a corporation of Alabama
Application August 24, 1950, Serial No. 181,295
6 Claims. (Cl. 144—213)

1. In a veneer lathe having a main frame and a pressure bar carriage slidably mounted for movement relative to the main frame toward and from the lathe centers, the improvement comprising an elongated member mounted for axial movement relative to the main frame rearwardly of the pressure bar carriage and held against lateral movement toward and from the pressure bar carriage, wedges carried by the member adjacent each end thereof, a housing for each of the wedges carrying complementarily tapered surfaces engaging said wedges, means mounting the housings for movement toward and from the pressure bar carriage and holding them against movement in other directions, connections between the housings and the pressure bar carriage, and means to shift the member axially in either direction whereby the wedges move the pressure



bar carriage toward the lathe centers when the member moves in one direction and away from the centers when the member moves in the other direction.

2,659,402
SKINNING MACHINE FOR FLAT PORK CUTS
Ray T. Townsend, Des Moines, Iowa
Application March 31, 1948, Serial No. 18,284
10 Claims. (Cl. 146—130)

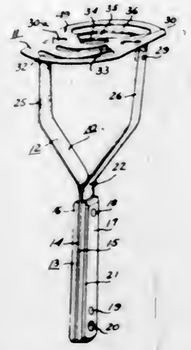


1. A skinning machine comprising, in combination, a frame, skinning means operably mounted on the frame, a table mounted on the frame for supporting an object to be skinned in position to be fed to said skinning means, a plurality of aligned hold down shoes operably mounted on the frame for translational movement toward and from said table and for rotational movement, means for translationally moving said hold down shoes, said hold down shoes having aligned slots therein, an arm disposed adjacent each outermost hold down shoe, said arms being pivoted on a common axis and having their swinging ends in register with said slots, a rod interconnecting the swinging ends of said arms and disposed in said slots, and means for swinging said arms.

2,659,403
FOOD MASHER
George M. Jones, Jenkintown, Pa.
Application November 8, 1950, Serial No. 194,639
2 Claims. (Cl. 146—213)

1. A food creamer including a handle, a food-engaging head having a flat bottom surface, a yoke interconnecting said handle and said head, a central aperture in said head, a plurality of arcuate apertures disposed radially on each side

of said central aperture, arcuate strips intervening said central and side apertures, said strips disposed at an angle to the plane of said head



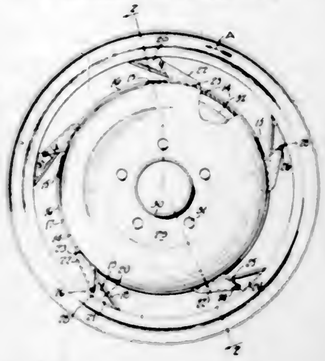
with the radially outer edge of each strip disposed in spaced relation to the plane of said head in the direction of said handle, no portion of said creamer extending below the plane of said head.

2,659,404
COMBINATION BEACH TOWEL AND BEACH BAG
Virginia Kelsey, Delmar, N. Y.
Application February 8, 1952, Serial No. 270,546
1 Claim. (Cl. 150—1)



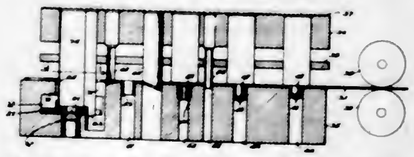
An article of manufacture of the character described, comprising an elongated, rectangular sheet of moisture absorbent cloth material for use as a combination beach robe, a towel and, when folded, rolled and secured into position, a beach bag, to provide which said sheet has one marginal end portion thereof overfolded transversely of its longitudinal axis with the adjacent overfolded edges thereof substantially flush with each other; rows of oppositely disposed stitches securing the flush edges together to provide a completely accessible outside pocket, overfolded upon itself along lines parallel to said stitches and rolled into substantially circular position with respect to the vertical axis of said bag; a row of stitches intermediate said first named rows to divide said pocket into compartments and to secure said first overfolded portion in position to a remaining inner portion of said sheet; said remaining inner portion of said sheet being folded upon itself transversely of its longitudinal axis and disposed within the outer confines of said pocket; opposite edges of said last named overfolded pocket being in abutting relation; means securing said abutting edges together; and means secured to said sheet to extend above said bag to carry the same.

2,659,405
RIM DRIVING WHEEL
Philo G. Gilbert, Portland, Oreg., assignor, by mesne assignments, to Gilbert Wheel, Inc., Portland, Oreg., a corporation of Delaware
Application September 6, 1950, Serial No. 183,315
2 Claims. (Cl. 152—75)



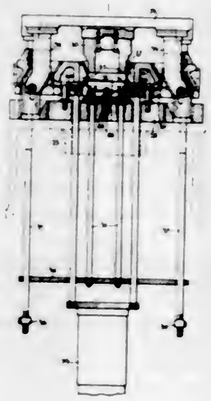
1. A rim driving wheel consisting of a wheel rim, a wheel drum disposed within said rim and spaced therefrom, straps secured at one end of said wheel drum and wrapped partially around said drum and then tangentially extending to said rim, a wedge shaped block between each tangential end and its adjacent rim part, said tangential end, block and rim part being united by welds, a clip straddling each strap having one end attached to said wheel drum and the other end inclined towards said block, together with a taper pin driven between the inclined end of said clip and said block, said pin being welded to said block and clip.

2,659,406
APPARATUS FOR FORMING AND ASSEMBLING ELECTRICAL TERMINALS
Louis Peer Locke, Victor, N. Y.
Original application June 10, 1947, Serial No. 753,678, now Patent No. 2,610,390, dated September 16, 1952. Divided and this application July 30, 1949, Serial No. 107,791
4 Claims. (Cl. 153—1)



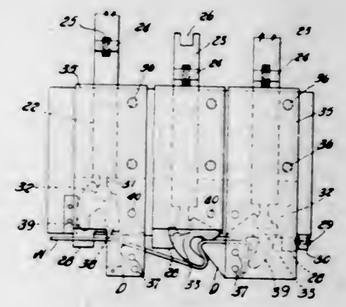
1. Apparatus for forming electrical terminals from a continuous metal strip and assembling them on an insulating strip, comprising, in combination, a support for holding an elongated insulating strip at one elevation in position so that it may be fed lengthwise, a die having a surface for supporting an elongated metal strip at an elevation above said insulating strip and in a direction in crossing relation to the length of said insulating strip in position to have successive portions of the metal strip fed step by step toward the insulating strip, a punch mounted for reciprocation upwardly and downwardly toward and away from said die, said punch and die having cooperating surfaces at one station for forming a securing boss on the under face of said metal strip in a location offset horizontally from said insulating strip, a clinching anvil mounted on said support for holding said insulating strip, said punch and die including a punch portion at a subsequent station directly over said clinching anvil and having shearing edges cooperating with shearing edges of said die for severing a portion of said metal strip containing a boss from the remainder of said metal strip while the boss of the severed portion is directly over said clinching anvil, said portion of said punch being so formed as to carry the severed portion of the metal strip downwardly and seat it upon the insulating strip with the securing boss on the severed portion extending through said insulating strip and alined with said clinching anvil to be clinched thereby upon exertion of downward pressure by said portion of said punch.

2,659,407
MACHINE FOR FORMING ANNULAR SHEET METAL WORKPIECES
John Gilchrist Kay, Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 22, 1950, Serial No. 202,191
8 Claims. (Cl. 153—2)



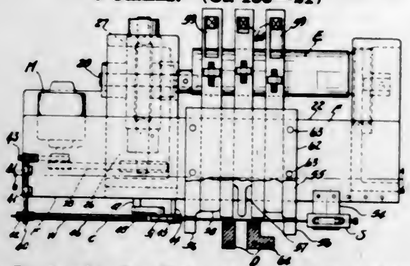
1. In a machine for forming an annular sheet metal workpiece, such as a drop-center automobile wheel rim, the machine including a vertical single-action press having a bed, side frames supported on and rising from the bed, and a plunger mounted for vertical sliding movement between the side frames toward and away from the press bed in a cycle of operation of the press, the combination therewith of a lower die shoe supported in fixed position on said press bed, a lower die mounted for vertical movement in the press above said lower die shoe, the lower die in its uppermost position standing clear of adjacent parts for receiving an annular workpiece thereon, means on said press for positively stopping said lower die temporarily in an intermediate position when moving downward wherein it is held slightly raised above its final lower position where it rests on said lower die shoe, an upper die shoe secured to said plunger, an upper die carried by said upper die shoe in opposed relationship to the lower die, a group of radially movable dies mounted on the press in such position and relationship that when moved radially in one direction they engage the annular workpiece between the upper and lower dies which engage it on the opposite surface, said radially movable dies also being mounted for limited vertical movement above said lower die shoe, means on said press for positively supporting said radially movable dies temporarily above the lower press shoe while the radially movable dies are located in a position away from the workpiece but freeing them to move down upon the lower die shoe when they have moved fully against the workpiece, and means on said press timed with the movement of said dies for releasing said lower die from its temporary positive stopping means after all of said dies have fully engaged the workpiece, whereby the assembly of dies and workpiece will be brought down upon the lower die shoe to provide a solid reaction to the final working movement of the dies.

2,659,408
WIRE BENDING DIE UNIT
Edwin O. Klemm, Saginaw, Mich., assignor, by mesne assignments, to Saginaw Wire Products, Inc., Saginaw, Mich., a corporation of Michigan
Application February 13, 1950, Serial No. 143,865
2 Claims. (Cl. 153—17)



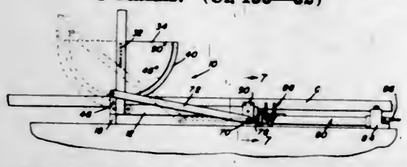
2. In a wire bending die unit, a bed plate formed with a plurality of transversely disposed, parallel grooves therein, individual die bar slides reciprocatingly mounted in said grooves, means for sequentially actuating said die bar slides forwardly and rearwardly in timed relation, a cover plate over each groove and overhanging the front edge of said bed plate, stationary dies having rear and side walls of predetermined shape mounted on the under face of said overhanging portions a spaced distance forwardly of said bed plate and in horizontal alignment with said die bar slides, extension arms on said bed plate for supporting the wire between said bed plate and said stationary dies in the path of travel of said slides, relatively flat cam dies swivelly mounted on the end of each slide and in horizontal alignment therewith to cooperate with said stationary dies in progressively bending said wire to the desired shape, each cam die having a pair of forwardly extending curved fingers of predetermined length and curvature, each stationary die being positioned adjacent a cam die in a position where, when the cam die moves forwardly, one of said fingers will form the wire to the shape of the rear wall of the stationary die and guide thereon, while the second finger progressively completes the bending by forming the wire to the side wall of said stationary die, and abutting members on said bed plate adjacent said fingers to be engaged thereby for realigning said cam dies as they are retracted.

2,659,409
WIRE BENDING MACHINE
Edwin O. Klemm, Saginaw, Mich., assignor, by mesne assignments, to Saginaw Wire Products, Inc., Saginaw, Mich., a corporation of Michigan
Application September 26, 1949, Serial No. 117,891
7 Claims. (Cl. 153—21)



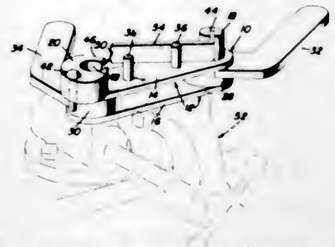
1. In a wire bending machine, the combination comprising a main frame, a bed plate mounted thereon, die bar slides reciprocably mounted in said bed plate, said slides each having single slots of varied length with relation to one another extending in the direction of travel of said bar slides, forming dies on said frame spaced from the ends of the slides and in alignment therewith, work support means for supporting the work between said die bar slides and forming dies, actuating levers pivotally mounted on said frame, the one end of each of said actuating levers being freely accommodated in the slot of a die bar slide and of a size with relation to the length of the slot as to be movable therein predetermined distance in the direction of travel of said die bar slide before actuating said slide, so that each slide is moved in timed relation with respect to the other slides, and driving means associated with said levers for forcing the slide engaging ends of said levers through a definite path of travel to move said slides into and out of engagement with the work.

2,659,410
ELECTRICAL CONDUIT BENDING AND STRAIGHTENING DEVICE
Frank A. Duffy, Jr., Kansas City, Mo.
Application June 8, 1951, Serial No. 230,590
5 Claims. (Cl. 153—32)



1. A conduit bending device comprising an elongated and longitudinally recessed bed plate adapted to receive a conduit in the recess thereof, a pair of standards fixedly secured to said bed plate on opposite sides of one end thereof and in parallel relation to each other, a quadrant pivotally carried by said standards and adapted to have the conduit received in the bed plate recess engaged against its periphery, and means for effecting longitudinal movement of said bed plate relative to the conduit, said means including a fluid pressure cylinder with a piston and plunger reciprocably carried thereby, said cylinder having a conventional clamp carried thereby whereby the conduit can be secured from movement relative to said cylinder, said plunger being connected to said bed plate for effecting longitudinal movement thereof whereby a bent conduit can be straightened.

2,659,411
BENDING APPARATUS
Frederick J. Bird, De Witt, Iowa
Application June 22, 1951, Serial No. 232,886
1 Claim. (Cl. 153—39)



In a bending apparatus of the type described, the combination of an elongated base plate having a semi-circular end edge and a pair of mutually parallel side edges tangential to said end edge, said plate being provided with a circular aperture concentric with said end edge, a cylindrical shank rotatable in said aperture, an enlarged substantially cylindrical bending head provided eccentrically on said shank, said head being of such size that a segmental portion thereof projects beyond the edges of said base plate, said segmental portion being provided with a bore parallel to the axis of the head, and a stop pin removably positioned in said bore and projecting downwardly therefrom, the projecting portion of said pin being movable in an arcuate path at the outside of the semi-circular edge of said plate but being engageable with the side edges of the plate to provide stop means for limiting the extent of rotation of the head.

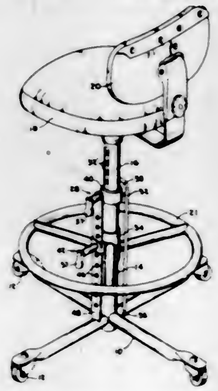
2,659,412
MEANS AND METHOD FOR PRODUCING A CONTINUOUS SHEET OF INTEGRATED MICA
Moses D. Heyman, Woodmere, N. Y.
Application December 15, 1950, Serial No. 201,020
9 Claims. (Cl. 154—2.5)



1. In apparatus for producing a continuous sheet of integrated mica, means for splitting mica pieces immersed in an evaporative liquid to disintegrate said pieces into flakes that have naturally cohesive surfaces, an inclined chute receptive above its lowest point of a flow of said flakes and liquid from said splitting means, a continuously moving upwardly sloping endless conveyor including an air-pervious web, a tank in one end of which the lower end of said conveyor is disposed, the upper end of the conveyor extending above and beyond the other end of said tank, a pair of transverse spaced walls in said tank above said lower end of the conveyor and defining a flake-settling chamber, means to conduct the flow from said inclined chute into the top of said settling chamber to effect deposit of flakes onto the upper side of said air-pervious web, the liquid of said flow entering said tank,

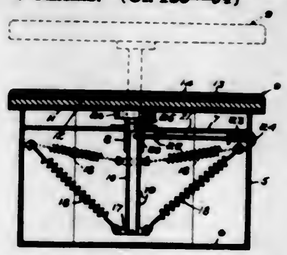
overflow means to maintain the level of said liquid in said tank, and suction means effective on the under side of the web and upon the flakes located at the point the web leaves the liquid in the tank to bring said flakes out of the liquid in the tank.

2,659,413
POSTURE CHAIR
Roy A. Cramer, Kansas City, Mo.
Application December 10, 1948, Serial No. 64,581
9 Claims. (Cl. 155—94)



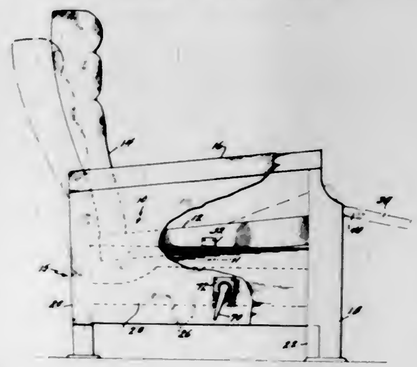
2. A chair comprising a base having a tubular support extending upwardly therefrom, a seat, a pedestal supporting the seat and slidably mounted in the support, means for automatically raising said pedestal and seat with respect to the base comprising an expansible spring housed within the support, means including a locking plunger carried by the support and receivable in a selected one of a plurality of openings provided in the pedestal for locking the latter at a desired position of vertical adjustment, a foot rest slidably mounted on the support, resilient means for automatically raising the foot rest with respect to the support, and means for locking the foot rest in a desired position of vertical adjustment comprising a vertically extending latch member secured to the support and provided with a plurality of spaced openings, and a locking plunger carried by the foot rest and receivable in a selected one of said plurality of openings.

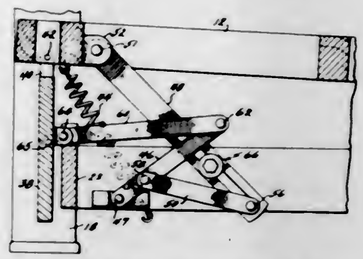
2,659,414
CONVERTIBLE HASSOCK AND TABLE
Paul Hear, South Portland, Maine
Application November 25, 1949, Serial No. 129,361
7 Claims. (Cl. 155—94)



7. An article of furniture comprising a hollow base open at its top and including a floor spaced between its top and bottom, a cover for said base including a depending support, and a sleeve attached to said floor and depending therefrom, said support being slidably connected to said sleeve to enable said cover to be raised and lowered relative to said base.

2,659,415
RECLINING CHAIR WITH COORDINATED LEG REST
Claude A. Hughes, High Point, N. C.
Application January 12, 1953, Serial No. 330,698
11 Claims. (Cl. 155—105)



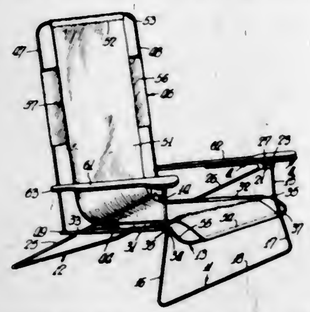


1. A reclining chair comprising a supporting framework, a chair body member pivotally supported by said framework for movement about a horizontal axis, a leg rest member pivotally supported at the front of said chair, a connecting member pivotally attached to said body member, a lever member pivotally connected to said framework, a first link means joining said connecting member to said lever member, and a second link means joining said lever member to said leg rest.

2,659,416
COLLAPSIBLE RECLINING CHAIR
Sam Heyman, New Bedford, Mass.
Application October 14, 1950, Serial No. 190,172
4 Claims. (Cl. 155—139)

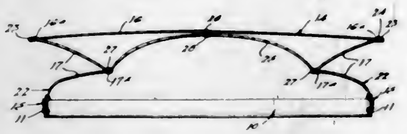
1. A collapsible reclining chair comprising a front support, a back support and a seat frame, said supports and said frame each having a pair of spaced parallel legs, a pair of connector members each comprising a block affixed to the upper end respectively of one of the legs of the front support, means pivotally mounting the front end of each of the legs of the back support in said block, means pivotally connecting the legs of the seat frame adjacent the rear ends thereof to the legs of the back support, means slidably mounting the legs of the seat frame adjacent the front thereof on the legs of said front

support respectively, stop means on the legs of the front support to limit the sliding movement of the front end of said seat frame thereon, a back rest comprising a pair of spaced parallel legs, means pivotally mounting the lower ends of said legs to the rear ends of the legs of said seat frame respectively, adjustable connections between said connector members and said back rest for setting the angle of inclination of the latter wih respect to said seat frame, said adjustable connections comprising a pair of arm rests pivotally mounted near their rear ends to the legs of said back rest respectively and extending over said blocks, said arm rests each having a longitudinally extending strip affixed



on the undersurface thereof and depending therefrom in a plane at right angles thereto, said strips each having a longitudinal slot therein with a plurality of notches in the upper edge thereof, and having a laterally extending flange along the lower edge thereof, said blocks each having a pair of spaced upstanding fingers rigid therewith straddling said flange, thereby preventing lateral displacement of said arm rests, said fingers having a pin rigid therewith extending transversely thereacross and positioned in said slot, said pin being adapted to coact with any one of said notches releasably to lock the arm rests in fixed position with respect to said blocks.

2,659,417
SPRING ASSEMBLY FOR SPRING CUSHION CONSTRUCTION
Arthur V. Handren, Jr., Birmingham, Mich., assignor to No-Sag Spring Company, Warren Township, Mich., a corporation of Michigan
Application September 5, 1950, Serial No. 183,156
3 Claims. (Cl. 155—179)



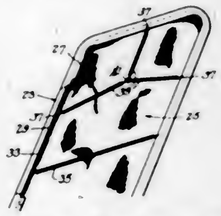
2. A spring construction comprising a frame, a plurality of normally upwardly arched main spring strips arranged transversely of said frame and forming a platform portion for supporting a load, said platform portion terminating in substantially V-shaped portions terminally nonpivotally connected to said frame, arch shaped spring strips arranged beneath and connected to said platform portion and terminally connected to the apices of the V-shaped portions thereof, and a resilient member extending longitudinally of said frame and transversely connecting said main spring strips.

2,659,418
CUSHION OR THE LIKE
Oscar A. Berman, New York, N. Y.
Application February 9, 1952, Serial No. 270,799
7 Claims. (Cl. 155—179)



3. In a latex foam rubber cushion, a plurality of non-cylindrical cavities having spiral integral protuberances adapted to receive spirally annulated plugs.

2,659,419
CHAIR
John J. Waldheim and Edgar O. Bartolucci, Chicago, Ill., assignors to Bartolucci & Waldheim, Chicago, Ill., a copartnership
Application December 5, 1946, Serial No. 714,192
1 Claim. (Cl. 155—179)

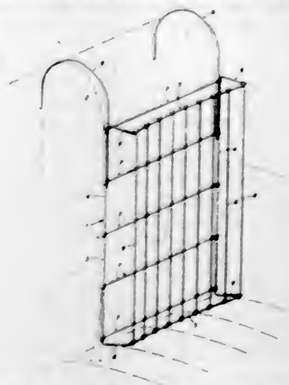


In a chair having a supporting framework defining the periphery of a generally rectangular area to be covered, and a covering thereon providing a weight supporting surface, the covering having a hem about its periphery and being of a size larger than the area covered by enough to dispose the edges of the covering over the edges of the framework with the edges of the hem terminating at the underside of the framework adjacent the framework, the improvement comprising the provision of a chain in the hem of the covering, the ends of said chain being connected together, three coil springs each disposed to the underside of the covering and each having its outer end passed through the material defining the hem of the covering inwardly of the outer edge of the hem and said chain, one of said springs being connected to the chain at one side of the framework and adjacent one end of the framework, a second one of said springs being connected to the chain at the opposite side of the framework and in substantial horizontal alignment with the point of connection of said one spring, the third spring being connected to the chain at the end of the framework substantially centrally thereof, the inner ends of said springs in the relaxed condition thereof terminating in spaced relation, and a ring of a size smaller than the spacing between the inner ends of said springs, said springs being stretched and having the inner ends thereof connected to said ring.

2,659,420
BACK REST
Charles Edward Burke, Norfolk, Va.
Application October 8, 1948, Serial No. 53,460
4 Claims. (Cl. 155—182)

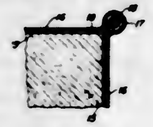
1. An air-cooled back rest comprising a resilient frame member of substantially box shape

having a pair of transversely spaced side rails and a pair of longitudinally spaced end rails extending between said side rails, said end rails be-



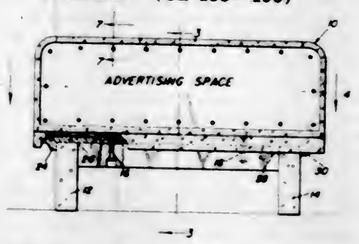
ing integral with and offset from said side rails, and spaced resilient means extending between and connecting each of said pairs.

2,659,421
UPHOLSTERY COVERING
Yvonne Wass and Ernest Wass, Rochester, N. Y.
Application November 21, 1950, Serial No. 196,883
2 Claims. (Cl. 155—184)



1. An upholstered article of furniture comprising a supporting base, and a covering structure applied to a surface portion of said base, said covering structure comprising a sheet of woven fabric and a sheet of transparent thermoplastic material of substantially the same area as and secured to the first sheet around the edges thereof, and means forming a welt stretching the two sheets of the covering structure smoothly across said surface portion of the base and securing said edges of the covering structure to said base.

2,659,422
INTERLOCKING PRECAST CONCRETE BENCH
Victor L. Holland, Denham Springs, La., assignor to Delta Concrete Products Co., Inc., Denham Springs, La., a corporation of Louisiana
Application June 22, 1950, Serial No. 169,563
6 Claims. (Cl. 155—196)



1. A precast concrete bench comprising a pair of substantially parallel spaced concrete buttresses, a bar secured to and abutting said buttresses and extending therebetween, a reinforced concrete seat forming slab having pairs of spaced parallel projecting tongues depending therefrom positioned on said buttresses, said projecting tongues straddling said buttresses, certain of said tongues having gaps formed therein receiving the ends of said bar, a back forming slab secured to said buttresses and binding means between said tongues and said buttresses.

2,659,423
PORTABLE ARM SUPPORT
James T. Haley, Syracuse, N. Y.
Application September 15, 1950, Serial No. 184,992
1 Claim. (Cl. 155—198)

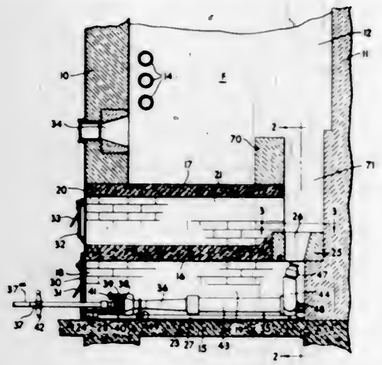


A portable arm support comprising a flat base member consisting of a single sheet of thin, flexible self-sustaining but deformable sheet material having top and bottom surfaces substantially unobstructed throughout its area, said base member being of such dimensions that it may be placed flat upon a seat, sat upon by a person occupying said seat and distorted by the weight of the person so as to conform to the contour of the seat and the contacting portions of the person, a vertical support carried by the base member and extending upwardly from a peripheral edge portion of the said base member with the remainder of the peripheral edge portions all being unobstructed so as to enable said base member to be slipped under and removed from beneath a person occupying the seat, said support consisting of rigid bars disposed in transversely spaced relation to each other and an arm rest carried by said support.

2,659,424
COMBUSTION APPARATUS FOR FURNACES
William Ferguson, Philadelphia, Pa., assignor to National Airoil Burner Company, Incorporated, Philadelphia, Pa., a corporation of Delaware
Application August 22, 1950, Serial No. 180,738
2 Claims. (Cl. 158—1)

1. In a furnace having vertical front, rear and side walls enclosing a furnace chamber, spaced walls at the lower portion of the furnace chamber providing a plurality of horizontally disposed inwardly extending upper and lower air ducts, a vertical screen wall extending from one side wall to the other side wall spaced forwardly from said rear wall and extending upwardly from said lower air ducts above said upper air ducts and into said furnace chamber to a height at least as great as the height of said upper air ducts to provide a transverse trough, said screen wall having openings therethrough for said upper air ducts, damper members for controlling the delivery of air into each of said ducts, a burner block between the inner ends of each of said lower ducts and said trough having an upwardly extending

throat with a forwardly disposed wall portion parallel to the rear wall and a rearwardly disposed wall portion inclined at an angle with respect to said rear wall, and a burner retractably mounted in each of said lower ducts and having



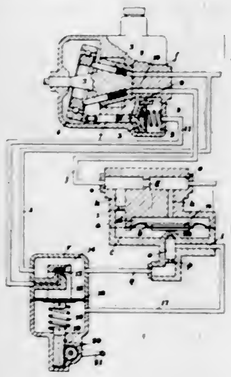
a discharge portion for alinement with said throat and said trough, said screen wall preventing the admixture of gases of combustion with the flame and with the air advancing upwardly from said ducts.

2,659,425

LIQUID FUEL REGULATING MEANS FOR USE WITH PRIME MOVERS

Richard Joseph Ifield, Dural, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England

Application August 21, 1950, Serial No. 180,657
Claims priority, application Great Britain August 22, 1949
8 Claims. (Cl. 158—36)



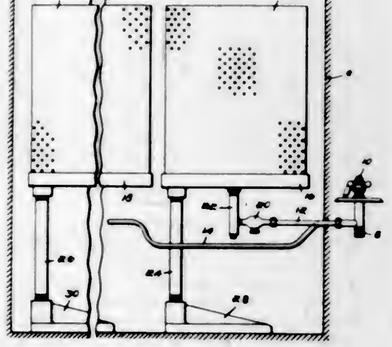
1. Liquid fuel regulating means for a prime mover, comprising in combination a fluid-operated servo-mechanism, a conduit through which liquid fuel can be supplied to the prime mover at a rate determined by said servo-mechanism, and which is provided at a position intermediate its ends with a restriction for setting up a pressure difference in the fuel flowing through said conduit, a first passageway leading from a part of said conduit at the upstream side of said restriction and having a second restriction therein, a second and unrestricted passageway leading from a part of said conduit other than at the upstream side of the restriction therein, a chamber, a pressure responsive member dividing said chamber into first and second compartments which are connected to said conduit by said first and second passages respectively to permit access of fuel from different parts of said conduit to said first and second compartments respectively, a valve seating arranged in said first compartment, a third passageway communicating with the discharge side of said valve seating and having a third restriction therein, a valve closure member carried by said pressure responsive member and co-operating with said valve seating to control fuel flow from said first compartment to said third passageway under the control of said pressure responsive member, and a device operable by the fuel pressure in said third passage between said third restriction and said valve seating for controlling said servo-mechanism, the arrangement being such that when the rate of fuel flow in said conduit is steady said pressure responsive member is subjected to equal pressures at its opposite sides, and fuel flows through said valve seating in proportion to the fuel flow through said conduit, but when a change occurs in the rate of fuel flow through said conduit said pressure responsive member is subjected to a transient pressure difference and moves said valve closure member to vary the fuel flow through said valve seating in proportion to said change.

2,659,426

OIL BURNER WITH HEAT RESPONSIVE FUEL CUTOFF

William G. Rowell, Quincy, Mass., assignor to Scully Signal Company, Cambridge, Mass., a corporation of Massachusetts

Application May 12, 1950, Serial No. 161,518
6 Claims. (Cl. 158—42.4)



2. In combination, an oil burner of the type having a vaporizing trough in the base thereof and a perforated tube extending upwardly from said trough to form therewith a combustion chamber, an oil supply line including a carbon leg communicating with said trough to supply oil thereto and depending directly from the base of said burner, and an irreversibly operable high temperature responsive automatically closing valve in the oil supply line leading to said carbon leg and located directly underneath the base of said burner, said valve being directly responsive to heat from burning oil that has overflowed from said burner to interrupt the oil flow to said trough.

2,659,427

OIL BURNER NOZZLE HEAD ELEMENT

Isaiah M. Bither, Providence, R. I.

Application November 28, 1950, Serial No. 197,978
1 Claim. (Cl. 158—76)



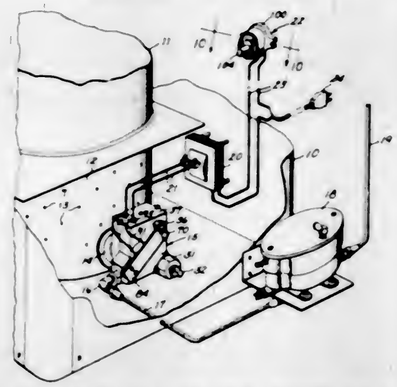
A head element for an oil burner nozzle, comprising an outer annular tapered shell, a central support ring, and legs extended from said ring and secured to said shell, the inner surface of the shell having converging spiral air flow guide vanes in contact overlapping block relation, the outer surface of said shell having converging spiral flow guide vanes separated by arcuate troughs.

2,659,428

OIL BURNER ELECTRIC IGNITER

Albert L. Judson, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg., a corporation of Oregon

Application July 17, 1950, Serial No. 174,265
8 Claims. (Cl. 158—91)



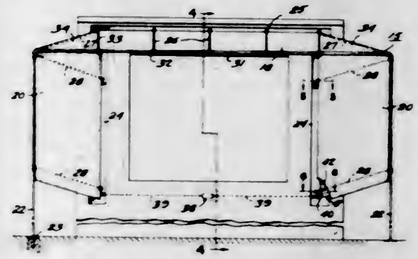
1. A combined oil inlet and igniter for a vaporizing oil burner of the type comprising an open receptacle having an interior portion onto which oil may flow to be evaporated by the heat of combustion, said receptacle also comprising air inlet means for continuously admitting air to mix with the evaporated oil and support combustion thereof, comprising a hollow member adapted to communicate with the interior of said receptacle, means for supplying oil to said receptacle through said member, electric igniting means mounted in said hollow member to ignite a pilot flame therein, said hollow member having an air inlet opening thereinto for the admission of combustion supporting air, a valve adapted to close said opening, a bimetallic actuator, a resistance heater mounted adjacent said bimetallic actuator, means simultaneously to energize said igniting means and said resistance heater and means connecting said valve to said actuator comprising a spring assembly movable to two overcenter positions whereby the relative position of said valve with respect to said bimetallic actuator may be changed and means to effect such movement upon heating and cooling of said actuator as a result of energization and deenergization of said heater whereby momentary closing of said valve is effected subsequent to deenergization of said heater.

2,659,429

DAYLIGHT SHIELD FOR DRIVE-IN OR OTHER OUTDOOR MOVING PICTURE THEATER PROJECTION SCREENS

Sydney D. Grubbs, Sr., Martinsville, Ind.

Application April 26, 1951, Serial No. 223,114
6 Claims. (Cl. 160—22)



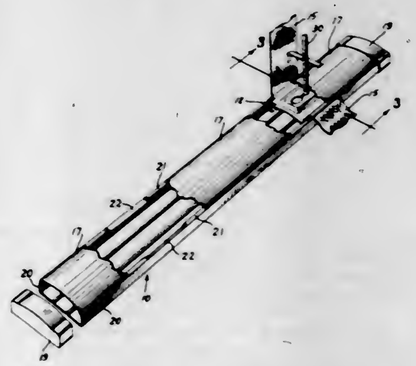
1. A daylight shield for attachment to the forward portion of the tower for an outdoor moving picture projection screen, said shield having side and top portions of flexible material extending forwardly from the sides and top of the projection screen to prevent extraneous lights from reaching the projection screen, supporting structure for the shield including upright standards in front of and to the sides of the tower, and framework extending outwardly from the tower and connected to said upright standards for supporting the shield, the top portion of the framework sloping outwardly and downwardly from the tower above the projection screen and the side portions of the shield and flaring laterally outward from the sides of the projection screen along the sides of tower.

2,659,430

BOTTOM BAR ORGANIZATION FOR VENETIAN BLINDS

Hans K. Lorentzen, Montclair, N. J., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York

Application February 4, 1950, Serial No. 142,492
2 Claims. (Cl. 160—173)



1. In a Venetian blind, a bottom bar organization comprising: a sheet metal channel extend-

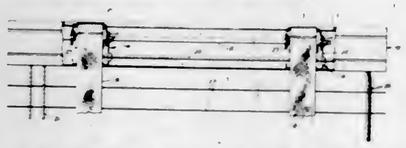
ing along the bottom of the blind, the top portions of the channel walls being turned inwardly and formed into confronting flanges that extend throughout the length of the channel, pairs of short longitudinal portions of the flanges on the two sides of the channel being depressed below the general level of the flanges; arched sheet metal fittings spanning the space between the side walls of the channel, one fitting being positioned on top of each of said pairs of depressed flange portions and each fitting having portions making snap engagement with non-depressed portions of said flanges; a lift cord attached to each of said fittings; a vertical ladder tape branch passing around each longitudinal edge of each of said fittings and being secured to the fitting on the under side thereof; and a single cover member overlying said fittings and said confronting flanges of the channel.

2,659,431

SLAT TILTING MECHANISM FOR VENETIAN BLINDS

Harry Nelson, New York, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York

Application January 18, 1950, Serial No. 139,184
8 Claims. (Cl. 160—177)



1. In a Venetian blind of the enclosed-head type having a channel-shaped head bar provided with fittings for supporting a longitudinally extending tilt rod, including a tilter of the worm and gear type in which the gear may be run out of mesh with the worm and two or more tilt rod cradles, and in which a tape rocker is mounted on a tilt rod adjacent each cradle, the improvement which comprises: at least one of the tape rockers having a generally circular end flange concentric with the axis of rotation of the tilt rod and the adjacent cradle having an upstanding flange provided with portions extending closely adjacent both sides of the end flange of the tape rocker, a portion of the end flange of the tape rocker being of such axial extent as to frictionally bind between the adjacent portions of the cradle when the slats are in substantially level position, the remainder of the end flange of the tape rocker beyond the zone of said first-mentioned portion being of lesser axial extent than the flange-receiving space between the portions of the cradle, so that the binding portions of tape rocker and tilter is moved out of engagement upon rotation of the tape rocker to move the slats towards blind-closed position.

2,659,432

LOAD RETAINING STRIP

Herbert C. Lau, Oak Park, Ill., assignor to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware

Application March 18, 1950, Serial No. 150,516
2 Claims. (Cl. 160—368)

1. A prefabricated load retaining strip comprising a pair of parallel, spaced apart, flexible steel bands connected by a heavy paper panel, said panel having integral flaps attached thereto at both side edges at fold lines, said flaps extending beyond said bands a distance greater than the width of said bands, each of said flaps having a cutout portion near its center for exposing the center portions of said bands when said flaps are folded over said bands, said flaps being adhesively secured in face to face relation to said bands and



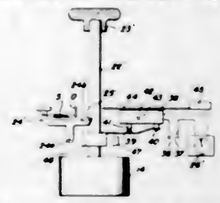
to said panel, said bands and said panel being of substantially the same length, and said bands being perforated adjacent their ends to facilitate securement of said band ends to the sides of a doorway.

2,659,433

POROSITY TESTER

Hugh M. Brown, Clemson, S. C., assignor to Clemson Agricultural College of South Carolina, Clemson, S. C., a corporation of South Carolina

Application February 3, 1950, Serial No. 142,121
2 Claims. (Cl. 161—18)



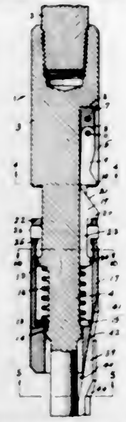
1. In a fluid pump of the type wherein a piston descends by gravity in a cylinder, the combination with said pump of means for automatically timing the downward stroke of said piston comprising a piston rod secured to said piston and being movable through the upper end of said cylinder, relatively vertically spaced lateral projections carried by said rod, an electrically actuated timer, and control means for initiating and terminating the energization of said timer simultaneously with the beginning and end of the downward piston stroke respectively, said control means comprising a normally closed microswitch in the energizing circuit of the timer, said switch having a control member movable upwardly relative thereto to open said switch, and means supporting said switch for resilient vertical bodily deflection, the control member of said switch being disposed above and in the path of movement of the lowermost of said projections to be raised thereby and maintain the switch open in the raised position of the piston, a stop being fixedly positioned below said control member for engagement thereby responsive to bodily downward movement of the switch, and into the path of downward movement of the uppermost of said projections to be engaged thereby and open the switch at the termination of downward piston stroke.

2,659,434

INSIDE PIPE CUTTER

Dean W. Osmun, Houston, Tex.

Application October 30, 1947, Serial No. 783,136
2 Claims. (Cl. 164—0.7)



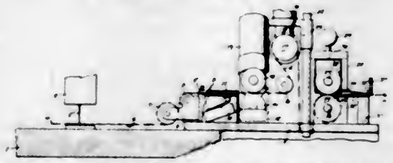
1. In an inside pipe cutter having a head, a reduced stem depending from the head and outwardly movable cutters pivoted on the head, a cutter expanding assembly on the stem comprising, a housing around the stem, longitudinally extending cutter expanders slidably mounted on said stem, said expanders having reduced shanks and outwardly thickened portions forming downwardly facing shoulders, a ring around said shanks whose upper face is engageable with said shoulders, a cylindrical bushing comprising a plurality of arcuate parts around the shanks and onto which the upper end of the housing is threaded, the upper end of said bushing being engageable with the lower face of said ring to clamp the ring between the bushing and said shoulders, an anchor beneath the housing having a threadable connection with the stem, means on the anchor engageable with the pipe to hold the anchor against rotation upon rotation of the stem whereby the stem may be unscrewed from the anchor and moved downwardly relative to the anchor, means engageable with the pipe, upon such downward movement and supporting said housing against downward movement in the pipe, and resilient means carried by the housing and engageable with the stem to yieldingly resist downward movement of the stem in the housing, said expanders being engageable with the cutters to move the cutters outwardly of the stem upon downward movement of the stem in the housing to expand the cutters into cutting engagement with the pipe.

2,659,435

TAPE CUTTING MACHINE

Martin S. Mansson, Long Island City, N. Y.

Application April 22, 1948, Serial No. 22,562
2 Claims. (Cl. 164—42)



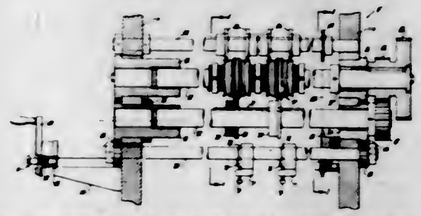
1. A machine for cutting tape and the like comprising means for feeding tape including a driven roller over which said tape passes, a sensitive switch adapted to be operated by contact with a protuberance on said tape, a knife movable across the path of said tape, means actuated by a circuit controlled by said switch to move said knife to cut said tape at predetermined intervals, said knife being mounted on a pivoted arm, an armature actuated by a solenoid and operatively connected to said arm including a lever secured to said armature notches on said lever, a finger on said arm and means to alternately cause said notches to engage and release said finger for operation of said knife.

2,659,436

SHEAR ASSEMBLY

Lyle V. Dutro, La Canada, and James F. Nameth, Los Angeles, Calif., assignors to The McBee Company, Athens, Ohio, a corporation

Application August 22, 1950, Serial No. 180,834
5 Claims. (Cl. 164—60)



1. An apparatus of the class described for slitting and trimming a continuously moving web, comprising a frame, a shaft rotatably supported by the frame, a pair of knives slidably but non-rotatably mounted on said shaft and being spring-urged toward one another, a second shaft on the frame arranged parallel to the first-named shaft and carrying a third circular knife having its periphery normally disposed between the pair of knives in yielding engagement therewith, means for adjustably securing said third knife to its shaft axially therealong, eccentric means mounted in the frame and rotatably supporting said second shaft, operable when actuated to bodily displace the third knife from its normal cutting position, in a direction at angles to the axes of rotation of the knives, a gauge for determining the location of said third knife along the second shaft, said gauge being rotatably mounted on the frame and normally being disposed in an inoperative position but adapted when rotated to be swung to an operated gauging position, means operable when actuated for axially separating the pair of knives, and actuating means for actuating the last-named means to cause an axial separation of said pair of knives, and substantially simultaneously actuating the eccentric means to cause a displacement of the third knife from its cutting position, and for substantially simultaneously actuating the gauge to bring the same into its gauging position to enable an adjustment, when necessary, of the third knife along its shaft to be made.

2,659,437

CUTTING AND GRIPPING MECHANISM FOR PRINTING MACHINES

William F. Huck, Forest Hills, N. Y., assignor to Huck Co., New York, N. Y., a partnership

Application March 4, 1947, Serial No. 732,247
9 Claims. (Cl. 164—67)

1. In a cutting and gripping mechanism for use with high speed web printing machines, a pair of web cutting knives a collecting cylinder on

which one of said knives is mounted and said cylinder having a recess trailing said knife, a gripper carried by said cylinder in said recess and being



positioned entirely below the surface of said cylinder, and means for causing said gripper to press the leading end of said web against the trailing surface of said knife.

2,659,438
MEANS FOR CEMENTING WELLS
Sylvester B. Schnitter, Dallas, Tex., assignor to L. L. Rector, Tarrant County, Tex.
Application August 16, 1946, Serial No. 690,969
7 Claims. (Cl. 166—1)

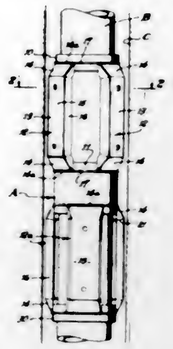
1. In apparatus for cementing pipe in a well bore, a collar provided with ports through its walls; a slideable cylindrical sleeve disengageably carried within said collar and having passageways through its walls, said sleeve being provided with an internal shoulder, the said ports and passageways being initially in communication; a lower baffle disengageably secured in the sleeve and initially closing the passageways;



means for disengaging the lower baffle and for moving it downward into a position of support by the shoulder to open the passageways; an upper baffle disengageably secured in the sleeve above the lower baffle; means for disengaging the upper baffle from the sleeve and for moving it downward into engagement with the lower baffle to close the passageway and for disengaging the sleeve from the collar to move it downward to close the ports.

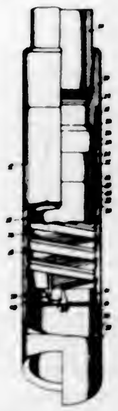
2,659,439
CENTERING DEVICE FOR WELL CASINGS
Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application December 27, 1949, Serial No. 135,136
3 Claims. (Cl. 166—4)

1. In a centering device for a well conduit string: upper and lower longitudinally spaced circumferentially continuous cylindrical collars having cylindrical peripheries; and a plurality of circumferentially spaced ribs extending between said collars; each rib having an outwardly facing web of substantially uniform thickness including a medial portion and end portions tapered toward and secured to the peripheries of said collars, each rib also having medial and end



flanges secured to and extending in substantially parallel relationship inwardly from said medial and end web portions, said medial and end flanges at each longitudinal edge of said web portions being substantially coplanar, angled with respect to each other and welded to each other, the inner ends of said end flanges bearing against said cylindrical peripheries.

2,659,440
CASING REPAIR TOOL
Dean W. Osmun, Houston, Tex.
Application December 4, 1950, Serial No. 199,108
8 Claims. (Cl. 166—4)



1. A casing repair tool comprising a cylindrical bowl, means connecting the bowl to an upper casing section for lowering the bowl in the bore of a well to position the bowl about a lower casing section located in said bore, said bowl having an internal annular groove, an annular packing member immovably seated in said groove in position to engage the lower casing section to form a seal between said lower section and the bowl, said connecting means having a portion engageable with the packing member to retain the packing member in the groove, an annular retainer in the bowl releasably engaging the packing member and retaining said member in position for sealing engagement with the lower casing section, said retainer being movable by the lower casing section to release said packing member.

2,659,441
HYDRAULICALLY ACTUATED FISHING TOOL FOR RECLAIMING BROKEN DRILL PARTS, ETC., FROM WELLS
Seth R. Knapp, Elk City, Okla.
Application January 12, 1951, Serial No. 205,720
12 Claims. (Cl. 166—19)



7. A tool for capturing broken drill parts and other debris from the bottom of a well bore comprising a housing structure including an upper tubular body portion and an elongated depending segmental portion at one side thereof having a chamber therein opening into the compartment of the tubular body portion, the lateral edges of the segmental portion being spaced from the outer adjacent surfacing of the well bore a distance sufficient to permit the passage upwardly through said space of well drill parts and debris to be reclaimed from the well bore, retaining means in the compartment of the tubular body portion above said segmental portion for receiving and holding drill parts and debris, a collapsible basket carried by said depending segment extending laterally into the space aforesaid below the reclaiming means and defining a pocket opening upwardly and facing said retaining means, means in the housing defining a fluid flow passageway therealong, a nozzle at the bottom of said passageway for directing a jet of fluid into the well bore below said collapsible basket for the lifting of well drill parts and debris upwardly past said basket, means for directing a second flow of fluid to a location below the basket, a nozzle for the second means for directing the flow of fluid therefrom in a jet stream upwardly through the pocket of said basket to prevent the lodgment in said basket of drill parts and debris, and control means for shutting off flow of fluid through the basket so as to permit the lodgment of drill parts and debris in said basket.

2,659,442
BAILER FOR OIL WELL BORES
Wayne N. Sutliff, Bakersfield, Calif.
Application June 1, 1951, Serial No. 229,389
11 Claims. (Cl. 166—19)

1. In a bailer to be lowered in a well bore on a running-in string: a barrel; a check valve at the lower portion of said barrel capable of allowing upward passage of substances through said valve and into said barrel; a by-pass opening through said barrel below said valve; a shoe slidable relatively upwardly on said barrel to close said opening, said shoe being slidable relatively downward on said barrel to open said opening; the upper portion of said barrel having an opening to allow fluid passage between the interior and exterior of said barrel; a valve member slidable in said



barrel and operable by the running-in string to be shifted selectively downward to closed position over said upper opening or upwardly to open position above said upper opening; and means releasably holding said valve in its upward position to place said upper opening in open condition as the bailer is being lowered in the well, and being releasable upon the imposition thereto of a predetermined load to release the valve member to allow downward movement thereof to close said upper opening.

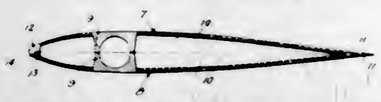
2,659,443
FIRE EXTINGUISHER STRUCTURE
Charles L. Zabriskie, New York, N. Y., assignor to Essex Products, Inc., New York, N. Y., a corporation of New Jersey
Application February 17, 1950, Serial No. 144,760
7 Claims. (Cl. 169—35)



1. In a fire extinguisher structure, the combination of a support, an extension attached thereto, a fire extinguisher double wall flexible container, a nozzle fastened in waterproof manner in an opening in said container, said nozzle having a part thereof engaging said extension for supporting said extinguisher, a waterproof cover for engagement with said nozzle, and an arm

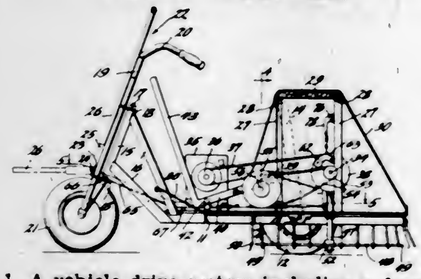
engaging said nozzle and extending part way down the side of said extinguisher for supporting said extinguisher after it has been removed from said support and for aiming the fire extinguishing liquid to a fire area as said extinguisher is flexed to force the fire extinguishing liquid through said nozzle.

2,659,444
MOLDED AIRCRAFT SUSTAINING ROTOR BLADE
Paul H. Stanley, Glenside, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application June 21, 1949, Serial No. 100,414
1 Claim. (Cl. 170—159)



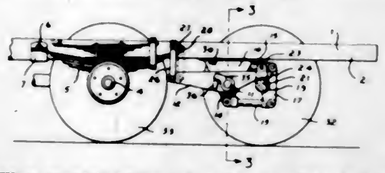
An aircraft sustaining rotor blade including two molded blade portions respectively comprising the upper and lower halves of the blade, said two portions having interengaging surfaces lying substantially in the plane of the blade chord and being adhesively bonded together to provide a high degree of rigidity in said plane, one of said portions having a nose piece which extends across and fits against the leading edge of the other to provide a smooth nose contour, said portions having stub parts projecting from the root end thereof with interengaging surfaces whereby to provide a blade mounting member adapted to carry the centrifugal load, said portions each having a strengthening, concave, half-spar element extended longitudinally of the blade and interconnected with each other, and each of said portions further having half rib elements molded integrally therewith and having mating surfaces in the plane of the blade chord.

2,659,445
STEERING MECHANISM FOR ROTARY MOWERS
Robert E. Church, Elkin, N. C.
Application March 29, 1950, Serial No. 152,528
3 Claims. (Cl. 180—6.32)



1. A vehicle drive system including a frame, a transversely disposed power shaft mounted on said frame, transversely spaced drive wheels mounted on said frame, individual belts operatively engaged to said power shaft for transmitting power to each of said drive wheels, an idler pivotally mounted on said frame in cooperative relationship to each of said belts, a steering post mounted on said frame, a cable, guide members mounted on said frame for supporting said cable for axial movement, the ends of said cable being fixed to transversely spaced points on said steering post, a T member mounted at its intersection on said frame for pivotal movement in a horizontal plane, the foot of said T being fixed to an intermediate portion of said cable, and means connecting the cross piece ends of said T to said idlers so that pivotal movement of said T effects differential movement of said idlers.

2,659,446
REAR-END SUSPENSION FOR MOTOR TRUCKS
Harry Edward Willock, Vancouver, British Columbia, Canada
Application April 23, 1951, Serial No. 222,427
2 Claims. (Cl. 180—22)

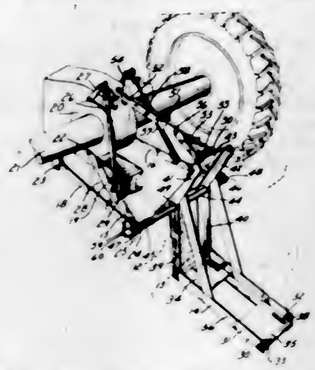


1. The combination of a truck chassis having longitudinal members, a driven rear axle and a driving wheel assembly including springs connecting the longitudinal chassis members to said driven axle, a transverse shaft rockingly mounted to the rear of the driven axle, a walking beam journalled upon each end of the rock shaft, a trailing axle having road wheels secured adjacent the rear ends of the walking beams, and a pair of torque rods pivotally mounted one above the other from each of the longitudinal members, a vertical member pivotally connecting the free end of each pair of torque rods, said trailing axle being connected to each of said vertical members, said walking beams being connected at their opposite ends to the springs, said rock shaft having a limited rotational movement in one direction within the walking beams, and a ram for rocking the rock shaft and also for rocking the walking beams in one direction after the relative rocking movement between the rock shaft and the walking beams has ceased.

2,659,447
CARRIER FOR MOUNTING HAMMER MILLS AND THE LIKE ON TRACTORS
Earnest M. Wetmore, Tonkawa, Okla.
Application June 29, 1950, Serial No. 171,033
2 Claims. (Cl. 180—53)

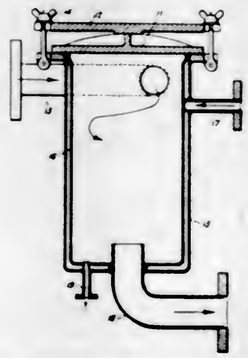
1. A carrier adapted for attachment to a tractor for mounting a grinding mill having a rectangular base and a laterally extending driving pulley above a longer side of the base, said tractor having a drive pulley rotatable on a transverse axis and having spaced lower connections and an upper connection for attachment of the carrier and having lift arms for raising the carrier, said carrier including a base frame conforming to the base of the mill and having longitudinal angle members extending in the direction of movement of the tractor and arranged with one of their flanges in horizontal position with their other flanges vertical to receive the base of the mill therebetween with said vertical flanges engaging the longer sides of the base of the mill and providing guides between which the mill is adapted to be moved to and from the drive pulley of the tractor, said base frame of the carrier also having transverse plates connecting forward and rear ends of the horizontal flanges, upright members fixed to the forward ends of the longitudinal members of the base frame at front corners of the mill, a cross member connecting upper

ends of the upright members, arms extending laterally and outwardly from the upright members intermediate the height thereof, links having ends pivotally connected with outer ends of said lateral arms and opposite ends adapted for pivotal connection with said lower connections on the tractor, means connecting the links with the lift arms of the tractor, a link having one end pivotally connected with the cross member and having the other end adapted for pivotal connection with the upper connection of the tractor



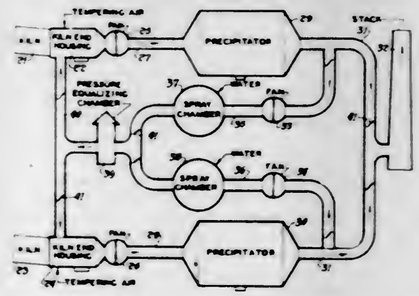
whereby the links and lifting arms support the carrier from the tractor when the base frame of the carrier is raised from the ground upon operation of the lift arms, a belt connecting the pulleys, said transverse plates having longitudinal slots, and fastening devices extending through said slots and connected with the base of the mill to adjustably anchor the base of the mill between the vertical flanges to provide driving contact of the belt with the pulleys when the base frame of the carrier is resting upon the ground.

2,659,448
SEPARATOR FOR IMPURITIES PRESENT IN THE COMBUSTION PRODUCTS OF GAS TURBINE PLANTS
Robert James Welsh, Rugby, England
Application August 2, 1950, Serial No. 177,295
Claims priority, application Great Britain April 29, 1948
3 Claims. (Cl. 183—5)



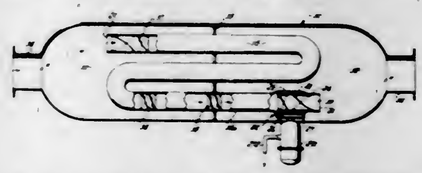
1. A separator for the separation of impurities present in the combustion products of a gas turbine plant as gases, vapours or smokes but liable to form liquid or solid deposits when cooled, comprising a chamber enlarged for allowing the combustion gases to pass through it at a reduced velocity, a detachable liner arranged inside the said chamber, a large access door to the said chamber arranged for the insertion of the said liner into and its withdrawal from the said chamber, a lateral inlet for the combustion gases into the said liner, arranged near the upper end thereof, an outlet for the combustion gases from the interior of the said liner arranged at the lower end thereof, and a lateral inlet for a gaseous cooling medium to be admixed to the combustion gases within the said liner.

2,659,449
HUMIDIFYING SYSTEM FOR DUST AND FUME COLLECTION BY ELECTRICAL PRECIPITATION
Harry E. Kaiser, Colton, and William C. Campbell, San Bernardino, Calif., assignors to California Portland Cement Company, Los Angeles, Calif., a corporation of California
Application April 3, 1950, Serial No. 153,576
6 Claims. (Cl. 183—7)



1. In the operation of a Portland cement plant comprising a plurality of clinkering kilns each communicating with its individual electrical precipitator, the method that includes passing a stream of hot gas from each kiln through an electrical precipitator operating to remove dust and fume from the gas, discharging to the atmosphere a portion of the clean heated gas flowing from the precipitators, mechanically recirculating separate streams of a second portion of the clean gas from said precipitators into a common chamber and thence into said hot gas stream, and humidifying the recirculated gas by introducing water thereto and vaporizing the water by sensible heat of the gas.

2,659,450
PULSATION ELIMINATOR AND GAS CLEANER
Raymond C. Baird, Los Angeles, Calif., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California
Application August 18, 1950, Serial No. 180,217
4 Claims. (Cl. 183—80)



1. A gas pulsation dampener and separator comprising a shell containing a pair of chambers

the first of which has a gas inlet and the second of which has a gas outlet, a pipe within the shell connecting the chambers for series flow of the gas therethrough, said pipe being of greater length than the shell and being doubled upon itself within the chambers, helical baffles within the inlet and outlet ends of the pipe, and a trap in the second chamber receiving liquid from an opening in the side of the pipe opposite the baffle in its outlet end and conducting the liquid out of the shell.

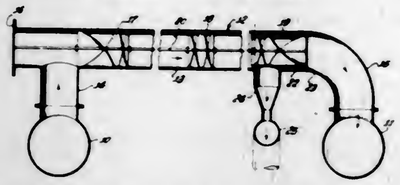
2,659,451

CENTRIFUGAL GAS CLEANER

Raymond C. Baird, Los Angeles, Calif., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California

Application August 18, 1950, Serial No. 180,218

1 Claim. (Cl. 183—80)



Gas cleaning apparatus comprising a gas inlet header and a gas outlet header, said headers being arranged in spaced parallel relation, a plurality of pipes extending between and interconnecting the headers for divided parallel flow of the gas from one to the other thereof, said pipes being positioned above one of the headers and having ends through which the insides of the pipes are accessible, removable closures for said ends of the pipes, baffle means within each of said pipes directing the gas in a swirling course of flow therein to centrifugally segregate entrainment out of the gas, and means for withdrawing the segregated entrainment from the pipes.

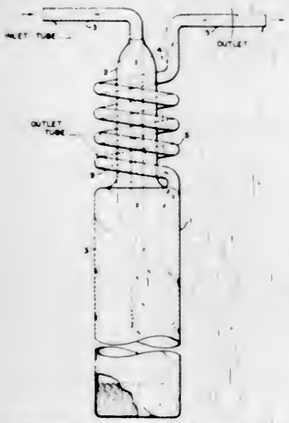
2,659,452

CONDENSATE TRAP

Alexander Gaydasch, Broadview, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application February 28, 1951, Serial No. 213,224

3 Claims. (Cl. 183—106)



1. A condensate trap comprising an elongated cylindrical chamber having an enlarged cross-sectional area lower portion and smaller diameter upper portion, an inlet tube connecting with and extending axially downwardly through said chamber to the lower portion thereof, said inlet tube forming with the upper wall portion of said chamber an annular space jacketing said inlet tube, a gas outlet tube extending from said chamber at the top of said enlarged lower portion, and said outlet tube extending in a coil around the smaller upper portion of said chamber closely adjacent thereto.

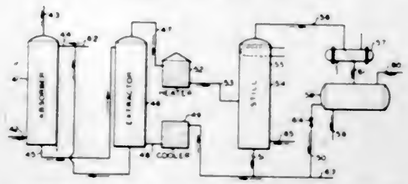
2,659,453

SEPARATION OF ACETYLENE FROM GASEOUS MIXTURES BY GLYCOLONITRILE

Sam P. Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 20, 1948, Serial No. 66,403

13 Claims. (Cl. 183—115)



1. A method for separating acetylene from admixture with gases with which acetylene is normally produced comprising contacting said admixture of gases with a reagent comprising an aqueous solution of glycolonitrile acidified with a nonvolatile mineral acid to a pH of 2½ to 3, separating the resulting solution from the gases and recovering acetylene from said resulting solution.

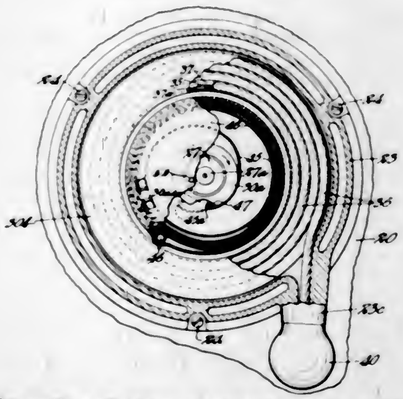
2,659,454

STARTER SPRING CONSTRUCTION

John C. Bandli, Minneapolis, Minn., assignor to Scott-Atwater Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota

Application January 9, 1948, Serial No. 1,470

2 Claims. (Cl. 185—39)



1. An outboard motor structure having in combination, a member adapted to be rotated in one direction and being freely rotatable in the opposite direction having a substantially cylindrical hub, a spiral spring fixed at one end and having its other end bent into an open loop, said spring being tensioned so that one side of said loop is held in engagement with and moved in engagement with the periphery of said hub,

means on said hub disposed in the path of said loop engaged by said loop when said hub is rotated in said one direction, and means for rotating said member in said first mentioned direction to cause said loop to engage said first mentioned means and rotate said member and wind up said spring, whereby when said last mentioned means is released said hub will be rapidly rotated in the opposite direction and when said spring is unwound and said hub continues to rotate said first mentioned means will move away from said loop and said spring will be detached from said hub and will not be bent or broken.

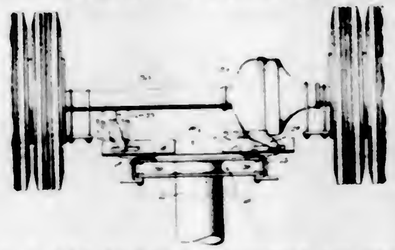
2,659,455

HINGED AXLE SUPPORT FOR AUTOMOTIVE VEHICLE LIFTS

Richard W. Green, Memphis, Tenn., assignor to Rotary Lift Company, Memphis, Tenn., a corporation of Delaware

Application December 30, 1950, Serial No. 203,679

4 Claims. (Cl. 187—8.75)



1. In a load supporting structure for vehicle lifts, the combination of a channel arranged to be secured to the ram of a lift, a pair of load bearing plates secured along the sides at each end of the channel, each of said plates having elongated horizontal slots; and a pair of load engaging supports resting on said bearing plates, each of said supports comprising a pair of hinge plates having a pintle part rigid therewith and projecting freely into a slot in one of the bearing plates, and a pair of load engaging plates rigidly secured to each pair of hinge plates, one of said load engaging plates when said support is in at least one of its two operative positions having an edge offset from and spaced above said pintle so as to rest upon the bearing plates to provide at another edge an elevated load engaging surface, and the other load engaging plate being in a generally horizontal position and presenting a relatively low level load engaging surface when the support is in the other of its two operative positions.

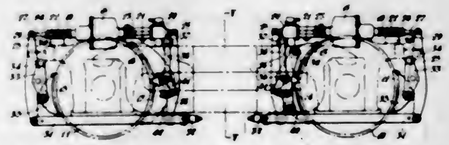
2,659,456

BRAKE MECHANISM

Emil G. Mueller, Churchill, Pa., assignor to The American Brake Company, Swissvale, Pa., a corporation of Missouri

Application July 30, 1948, Serial No. 41,650

9 Claims. (Cl. 188—56)



4. Brake mechanism for a vehicle wheel, comprising a brake cylinder, a piston in said cylinder, a transverse lever having one end pivotally connected to the piston, a link connecting an intermediate point on the transverse lever to a fixed pivot, a pair of vertical levers located at opposite sides of the wheel, a link connecting the inner end of the transverse lever to the upper end of one of the vertical levers, a tie rod connecting the lower ends of the vertical levers, a pair of brake hangers at opposite sides of the wheel, a brakehead pivoted on each hanger, a brake shoe on each brakehead, a pivotal connection between each hanger and an intermediate point on the adjacent vertical lever, a second transverse lever having its outer end pivotally suported, a second link connecting the upper end of the other vertical lever to the inner end of the second transverse lever, a crank pivotally mounted and having two crank arms, a third link connecting the end of one arm to an intermediate point on the second transverse lever, a third brakehead pivoted on the end of the other crank arm, and a brake shoe on said third brakehead.

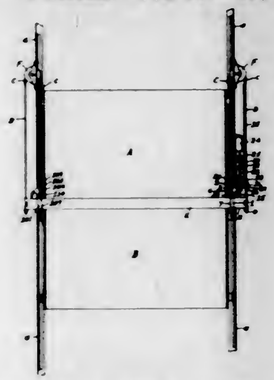
2,659,457

LATCH FOR COUNTERBALANCED ELEVATOR DOORS

Paul R. Doeg, Lynbrook, and Arthur W. Croker, Valley Stream, N. Y., assignors to The Peelle Company, Brooklyn, N. Y.

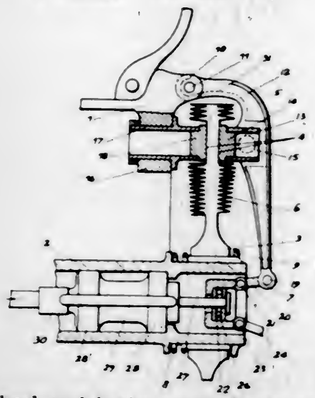
Application July 28, 1950, Serial No. 176,356

4 Claims. (Cl. 187—59)



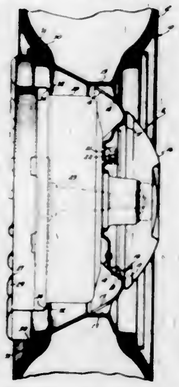
2. In combination with a counterbalanced elevator door, a latch mechanism comprising a latch arm swingably secured to and carried by the upper section of said door, a roller-receiving channel formed in the latch arm, a roller located on and carried by the lower door section, with said roller being adapted to engage the roller-receiving channel upon closing movements of the door sections, a second roller-receiving channel formed in the swingable latch arm, a roller arm pivotally secured to and carried by the upper door section and having a roller secured on the upper and lower ends thereof, with the roller on the lower end of the roller arm engaging the second roller-receiving channel of the latch arm, with the roller secured on the upper end of the roller arm being engageable by a cam carried by the door operating mechanism, and with the engagement of the upper roller of the roller arm with the cam carried by the door operating mechanism causing pivotal movement of the roller arm with the lower roller of the roller arm bearing against the second roller-receiving channel of the latch arm and swingably moving said latch arm to permit disengagement of the roller of the lower door section from the first roller-receiving channel of the latch arm.

2,659,458
HIGH-POWER WHEEL BRAKE, ESPECIALLY FOR AIRCRAFT
Pierre Mercier, Gennevilliers, France, assignor to Societe d'Etudes et de Constructions Aero-Navales, Gennevilliers, France, a company of France
Application May 19, 1950, Serial No. 162,845
Claims priority, application France May 21, 1949
3 Claims. (Cl. 188—72)



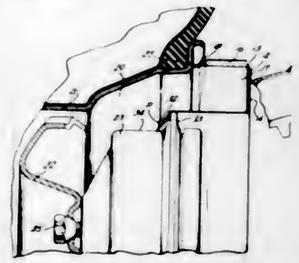
1. A wheel and brake assembly comprising, a fixed axle, a wheel journalled on said axle, a brake disc splined on said axle adjacent said wheel and slidable axially thereof, a stop on said axle to limit movement of said disc from said wheel, spring means on said axle and biasing said disc toward said stop, circular brake surfaces on opposite sides of said disc, brake shoes carried by said wheel for engagement with the circular brake surface on the adjacent side of said disc, support means carried by said wheel and extending around the periphery of said disc, brake shoes movably carried by said support means for engagement with the circular brake surface on the side of said disc opposite said wheel, and means for moving said latter shoes to engage said disc and press it against said wheel carried shoes.

2,659,459
BRAKE DRUM AIR COOLING DEVICE
George Albert Lyon, Detroit, Mich.
Application July 12, 1949, Serial No. 104,348
9 Claims. (Cl. 188—264)



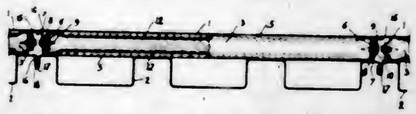
1. In a wheel structure including a brake housing having an axially outwardly facing annular shoulder and a tire rim secured to said brake housing and having an inner side annular lip, a cooling device for the inner side of the wheel and for attachment to said brake housing comprising a ring having spaced air collecting portions for effecting air circulation over said brake housing, a flanged lip extending radially outwardly from the radially outer side of said ring for engagement with the lip of said tire rim, and a series of finger members projecting from the radially inner side of the ring and having pointed end portions extending to a smaller diameter than the diameter of the brake housing axially outwardly of said shoulder arranged to bite into the surface of the brake housing to resist displacement of the device when the tire rim is being removed.

2,659,460
BRAKE DRUM AIR COOLING DEVICE
George Albert Lyon, Detroit, Mich.
Application August 13, 1949, Serial No. 110,093
13 Claims. (Cl. 188—264)



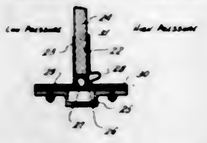
1. In a wheel assembly including a wheel comprising a tire rim and a wheel body having air circulation openings therethrough and attached to a brake drum substantially encompassed in spaced concentric relation by the tire rim, an air cooling structure mounted in substantially closing relation to the inner opening between the brake drum and the tire rim, said air circulation structure having a radially outwardly facing annular portion extending axially inwardly beyond the tire rim and having air motivating means thereon comprising a series of air moving elements angled in the direction of movement of the wheel for diverting air from the stream passing the inner side of the wheel during travel into and through the space between the tire rim and the brake drum and in cooling relation about the brake drum and then out through the wheel openings.

2,659,461
INSULATED METAL WALL PANEL
Joseph H. Bowman, Pittsburgh, Pa., assignor to American Steel Band Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 27, 1952, Serial No. 278,889
5 Claims. (Cl. 189—34)



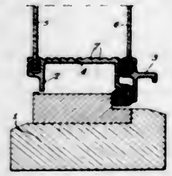
1. A wall panel comprising an insulating sheet of substantial thickness, a plurality of parallel metal bars extending across the opposite sides of said sheet with their ends bent part way across the opposite edges of the sheet, the bars being disposed in pairs having overlapping ends, a thermal insulating member spacing each pair of overlapping ends apart, each spacing member and the adjoining bar ends being provided with aligned holes, a screw extending inward through said holes and threaded in the inner one, insulating material insulating the portion of the screw in the outer hole from the surrounding metal, whereby the bars on opposite sides of the sheet are insulated from each other, and metal sheets covering the opposite sides of said insulating sheet and fastened to said bars.

2,659,462
ATTACHMENT FOR PLASTIC ENCLOSURES
Albert M. Schwartz, Palos Verdes, and John T. Willoughby, Los Angeles, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application September 17, 1948, Serial No. 49,666
2 Claims. (Cl. 189—64)



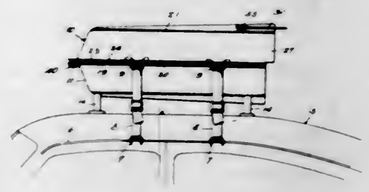
1. In combination with a wall of a pressure chamber having an aperture therein, a transparent dome having a peripheral sheet portion adjacent to the edge thereof positioned over the marginal edge portion of said wall bounding said aperture and extending substantially perpendicularly outwardly from said wall, said dome edge being spaced outwardly from said wall portion, two webs of nylon fabric attached respectively to the inner and outer surface of said dome adjacent to its edge and extending beyond said edge around the entire extent thereof, means for attaching said webs to said wall portions beyond said dome edge to close the space therebetween, said webs being aligned substantially parallel to the extent of said sheet portion, whereby substantially only tensile stresses are imparted to said sheet portion adjacent to said dome edge when said chamber is internally pressurized, said space between said dome edge and said wall portion being several times the combined thickness of said webs, whereby appreciable lateral thermal expansion of said dome edge relative to said wall can occur, and an elastic cushion member for said dome within the space bounded by said dome edge, said webs, and said wall portions.

2,659,463
FRAMING OF METAL PROFILES, PARTICULARLY FOR MOVABLE AND GLAZED WINDOWS AND DOORS
Eric Sigfrid Persson, Malmo, Sweden
Application November 15, 1948, Serial No. 60,128
Claims priority, application Sweden, June 29, 1948
4 Claims. (Cl. 189—75)



1. A metal frame for windows and doors comprising style and rail members, each of said members having front and rear surfaces and a surface extending between the front and rear surfaces and cooperating with the corresponding surfaces of the other members to form an inner peripheral wall defining a light opening, said inner peripheral wall having a glass receiving channel associated therewith extending peripherally of said opening, and the visible surface of said peripheral wall having a plurality of closely spaced peripherally extending parallel grooves to reduce the intensity of light reflected by the visible surface of said wall.

2,659,464
LUGGAGE CARRIER
George A. Sweetman, Trinidad, Colo.
Application March 16, 1949, Serial No. 81,746
1 Claim. (Cl. 190—1)

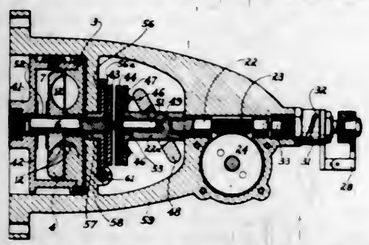


A combination luggage carrier and boat comprising a pair of elongated hollow bodies having open tops, a flat panel carried by each body adjacent one end thereof, the sides of the bodies converging as they recede from their respective panels, interconnected means carried by the bodies adjacent the upper edges of the panels for hingedly coupling said bodies together, so that one of said bodies may be folded and superimposed upon the other body, an outstanding flange carried by each side of each body adjacent the upper edge thereof, sealing gaskets carried by the flanges for cooperation in excluding moisture from the interior of the bodies when one body is superposed upon the other, strap loops carried by one of the bodies for receiving hold down straps attached to a carriage by which the bodies may be secured to the carriage and the sealing gaskets held in juxtaposed and sealed relation, a skirt carried by the body having the strap loops, said skirt projecting longitudinally from said body at the panelled end thereof for receiving the panelled end of the other body, and feet carried by the body opposite that carrying the strap loops for holding said bodies in spaced relation to the carriage with which the strap loops are engaged.

2,659,465
CLUTCHING DEVICE FOR WINDSHIELD WIPERS
Henry Albert Chivers, Balwyn, Victoria, Australia
Application July 22, 1948, Serial No. 40,033
Claims priority, application Australia August 7, 1947
3 Claims. (Cl. 192—3.2)

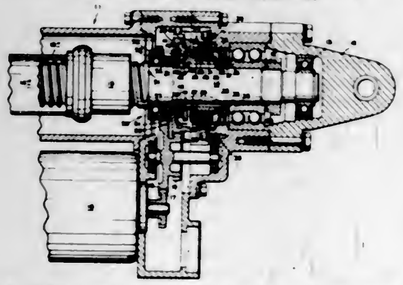
2. Apparatus for operating a windscreen wiper, comprising a fluid coupling device having a driving impeller, a shaft on which said impeller is secured, said coupling device having a driven runner operatively associated with said driving impeller so as to provide a gap between the runner and impeller, a second shaft upon which said driven runner is secured extending in axial alignment with said first mentioned shaft, clutch elements for operatively interconnecting the second shaft with a driven shaft, and means for

imparting lengthwise movement to said driven shaft in order to engage and disengage the clutch elements and for imparting lengthwise move-



ment to said second shaft in order to vary the gap between said impeller and runner while the clutch elements are interengaged.

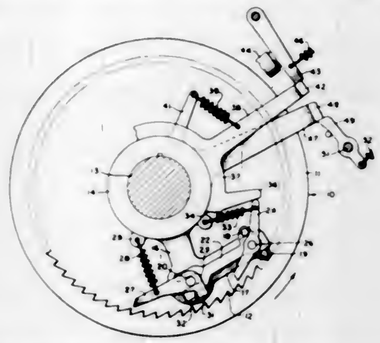
2,659,466
IRREVERSIBLE DRIVE MECHANISM
Leonard Ochtman, Ridgewood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application December 1, 1950, Serial No. 198,584
10 Claims. (Cl. 192—8)



1. A drive mechanism for driving, braking and releasably locking a shaft that is rotatably mounted in a stationary structure, comprising a braking and locking assembly for braking the rotation of said shaft and for locking said shaft to said stationary structure to thereby prevent the rotation thereof, a driving member rotatably mounted on said shaft and including first cam means, a hub fixedly mounted to said shaft, second cam means mounted in said hub for rotation therewith and adapted to move axially thereof, rolling members interposed between and coacting with said first and second cam means and operative upon relative angular displacements of said first and second cam means to move the latter axially along said hub, and means slidable in said hub and operative between said second cam means and said braking and locking assembly in response to the axial movement of said second cam means to operate said braking and locking assembly whereby said shaft is freed to rotate in response to the rotation of said driving member.

2,659,467
POSITIVE ENGAGING CLUTCH
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 2, 1951, Serial No. 249,284
14 Claims. (Cl. 192—28)

11. In a positive engaging clutch, a multi-toothed driving member, a driven member, an actuator slidably mounted on the driven member, a first pawl pivotally mounted on the actuator, resilient means connected to the pawl for urging the pawl into engagement with the toothed driving member, said resilient means also urging said actuator to slide in a predetermined direction, means for holding the first pawl out of engagement with the driving member, a second pawl pivotally mounted on the driven member, resilient means for urging said second pawl out of engagement with the toothed driving member, means for releasing the holding means to allow the first pawl to pivot into engagement with a tooth on the driving member, said driving member having sufficient momentum to move the

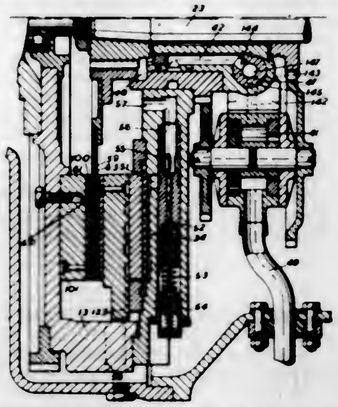


slidable actuator in a direction opposite to that urged by the resilient means connected to the first pawl, a detent on the slide for engaging and pivoting the second pawl into full engagement with another tooth on the driving member, and means for engaging the releasing means to pivot the first pawl out of engagement with the tooth on the driving member, said urging means of the first pawl being rendered effective to move the slide in the predetermined direction to move the detent out of engagement with the second pawl whereupon the resilient urging means connected to the second pawl pivots the second pawl out of engagement with the tooth on the driving member.

2,659,468
LUBRICATED FRICTION DISK
Howard Frederick Hobbs, Leamington Spa, England, assignor to Hobbs Transmission Limited, Leamington Spa, England, a British company
Application March 29, 1949, Serial No. 84,054
Claims priority, application Great Britain April 2, 1948
4 Claims. (Cl. 192—113)

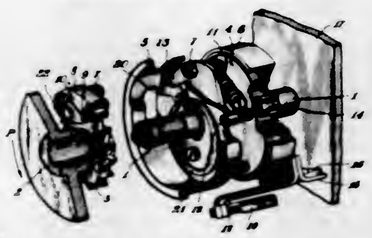
1. A friction engaging device comprising first and second friction members provided with co-acting lubricated friction surfaces, located in adjacent flat planes and at least one of which is constituted by asbestos base friction material and the friction surface of said first friction member being channelled by a plurality of lubricant channels which extend across the greater part of the friction surface between its outer and inner peripheries and lead to the outer periphery but not to the inner periphery, smooth unbroken surfaces being provided near the inner periphery, and the friction surface of said second friction member co-acting with said channelled surface being large enough to extend inwardly beyond the inner ends of the channels and having a smooth unbroken surface co-acting with the smooth unbroken surface of the friction surface of the first friction member, means being provided to permit free

escape of oil from the periphery of the surfaces, means to supply oil by pressure to the friction surfaces in a direction to reach the parts of smaller diameter first and in sufficient quantity when all the friction surfaces are declutched to lubricate the friction surfaces, and an oil escape path adjacent the inner peripheries large enough



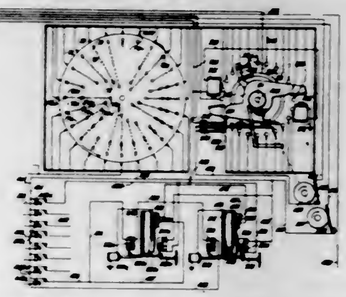
in relation to the oil supply so as at all times to prevent an accumulation of a bulk of oil adjacent to the inside edges of the friction surfaces, whereby when the friction surfaces are pressed into contact entry of lubricant at the inner diameter is restricted and lubricant on the surface is wiped off and expelled through said channels.

2,659,469
OVERLOAD RELEASE COUPLING AND CONTROL OPERATED THEREBY
Jacob Marinus Unk, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application September 28, 1948, Serial No. 51,604
Claims priority, application Netherlands October 4, 1947
11 Claims. (Cl. 192—150)



1. An automatically operated clutch mechanism comprising, in combination, a driving shaft, a driven shaft, a torque transmitting auxiliary member, spring means connecting said auxiliary member to said driven shaft, said spring means permitting relative rotative displacement between said auxiliary member and said driven shaft upon overloading of said driven shaft, first coupling means for coupling and uncoupling said auxiliary member to said driving shaft, means for governing said first coupling means, said last-named means being responsive to said relative rotative displacement, an arresting member, second coupling means for coupling and uncoupling said auxiliary member to said arresting member, said second coupling means being operative for checking said auxiliary member against movement thereof in the direction in which said relative rotative displacement between said auxiliary member and said driven shaft is diminished, after said first coupling means have initially become disengaged upon overloading of said driven shaft, said second coupling means being disengaged whenever said first coupling means is engaged, and vice versa, a stationary member, said arresting member being movably mounted with respect to said stationary member, means on said stationary member operatively associated with said arresting member for limiting the movement of said arresting member in either direction to a stroke of predetermined length, said stroke length being insufficient to permit, upon the second coupling means becoming operative, a retrograde movement of said auxiliary member coupled to said arresting member, whereby the relative rotative displacement between said auxiliary member and said overload subjected driven shaft may not be diminished to such an extent that the disengaged first coupling means is engaged again.

2,659,470
TRANSPORTATION FARE APPARATUS
Preston E. Du Pont, Kansas City, Mo.
Application April 3, 1950, Serial No. 153,689
10 Claims. (Cl. 194—4)

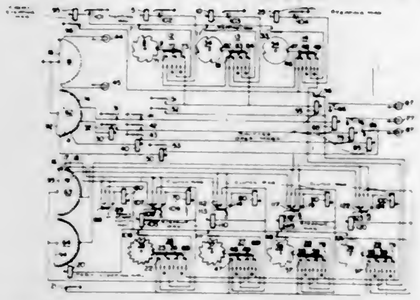


1. In a change return system, a number of coin containers; an electric circuit; an electrically controlled dispensing assembly for each of said coin containers respectively; a program switch having movable contact means coupled with said assemblies and a shiftable selector provided with a number of electrical conductors within the path of travel of said contact means, and a number of stationary contacts within the path of travel of said conductors; a stepping switch having a stationary contact point coupled with each of said stationary contacts respectively and a stepping arm connected with said electric circuit; and apparatus for receiving a receipt having indications formed thereon, said apparatus including means for controlling said stepping arm and adapted for operation by said indications as the receipt passes through the apparatus.

2,659,471
CONTROL CIRCUIT FOR VENDING MACHINES
Leith Johnston, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application June 12, 1951, Serial No. 231,141
1 Claim. (Cl. 194—9)

In a vending machine having coin operated devices and dispensing means for dispensing merchandise or services, a step-by-step counting switch, a credit magnet and a debit magnet for operating said counting switch in opposite di-

rections to indicate the difference between the value of the coins deposited and the value of the merchandise or services dispensed, a cam, an operating magnet for rotating said cam, a series of contacts controlled by said cam, means for closing a circuit for said operating magnet to move said cam off-normal to operate said contacts, means whereby said last mentioned means is controlled by the deposit of a particular coin, a circuit including said credit magnet controlled by one of said cam contacts, another circuit including said operating magnet controlled by another of said cam contacts, a contact on each of said magnets, each of said contacts included in the circuit of the other of said magnets, means including said magnet contacts whereby said



credit magnet and said operating magnet are energized alternately in said circuits to operate said counting switch and said cam an equal number of steps until said cam reaches a predetermined point, said cam contacts opened when said cam reaches said point to open the circuits controlled to thereby stop the rotation of said switch and said cam, a similar cam controlled by said dispensing means for operating said debit magnet a predetermined number of steps to step said counting switch a number of steps in the opposite direction dependent upon the value of the merchandise or service dispensed to thereby cause said switch to indicate the difference between the value of the coin deposited and the value of the merchandise or services so dispensed.

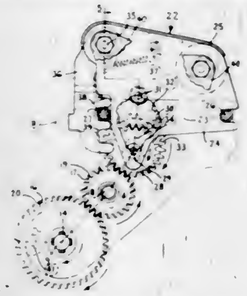
2,659,472

STRIP FEEDING MECHANISM

Percy G. Stimson, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio

Application December 28, 1949, Serial No. 135,318

13 Claims. (Cl. 197—133)



2. An imprinting machine of the type wherein a power operated platen roll is intermittently rotated through successive step by step movements of predetermined extent in timed relation with the operation of the imprinting machine by a power transmission system included therein, characterized by a removable auxiliary power transmission unit additive with respect to said power transmission system and operatively engageable with said power transmission system at the will of the operator, including a speed change mechanism engageable with spaced points in the power transmission system to alter the extent of the step by step movement of the platen roll, the construction and arrangement being such that the auxiliary unit may be bodily removed from the machine, or placed in operative or inoperative position in relation thereto at the will of the operator without disturbing the structural relationship of the imprinting machine, and an adjustable interlock between said spaced points in the power transmission system made ineffective in the operative position of said auxiliary unit.

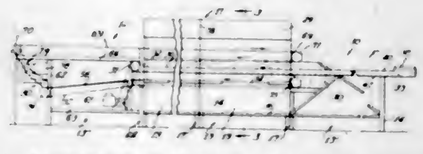
2,659,473

CONTINUOUS FEED EGG ROOM EQUIPMENT

Edward W. Fahey, Chicago, Ill., and George S. Wolf, New York, N. Y., assignors to General Package Corporation, a corporation of Delaware

Application September 9, 1950, Serial No. 183,982

5 Claims. (Cl. 198—19)



1. Apparatus of the type described, comprising an endless and continuously driven conveyor, a plurality of article stop devices spaced along said conveyor, said devices each including an article halting member acting in operative position to halt articles on said conveyor and normally maintained in said operative position, but being shiftable to article releasing position, and means to control said devices coordinately, comprising an actuating unit operatively connected to each of said members and normally maintaining the same in said article halting position, a control unit associated with and controlled by each of said article halting members, and means connecting said respective control units with the actuating unit of a device to the rear thereof, with reference to the direction of conveyor travel, to cause shifting of the article halting member of a given device to article releasing position when the preceding article holding member is in article halting position and an article is absent from its associated device.

2,659,474

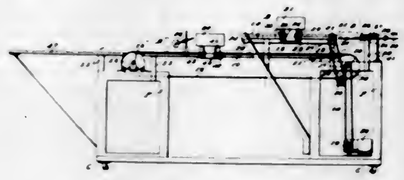
ARTICLE TRANSFER FOR CARTON TAPING MACHINES

Arlie B. Rader, Lititz, Pa.

Application April 25, 1950, Serial No. 157,997

2 Claims. (Cl. 198—27)

1. In a carton-taping machine, a transportable frame, a horizontal belt support carried by the frame, a horizontal table disposed above the support and carried by the frame, an endless chain conveyor for conveying cartons in one direction having one reach thereof movable over the table, a belt conveyor having one reach thereof movable over the support for conveying cartons in an opposite direction, means for imparting movement to the conveyors, and a weighted pivotally supported platform normally alined with the chain conveyor and being swingable to a position for transferring the cartons therefrom to



the belt conveyor when the cartons are of a predetermined weight, said means for imparting movement to the conveyors comprising a pair of frictionally engaged chains, and a motor for driving one of the chains.

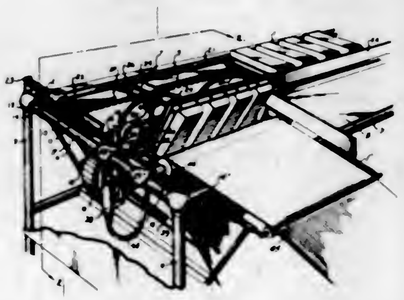
2,659,475

PAN TURNING MECHANISM

Irving M. Archer, Dallas, Tex., assignor to Campbell Taggart Research Corporation, Dallas, Tex., a corporation of Missouri

Application February 3, 1950, Serial No. 142,234

4 Claims. (Cl. 198—33)



1. In an apparatus of the character described, a conveyor for moving pans along a fixed path, pan overturning means including a rock shaft at the discharge end of the conveyor, spaced arcuate arms extending from the rock shaft, a pan engaging member connecting the free ends of said arms, a bar connecting said arms adjacent said rock shaft, a pressure fluid cylinder, a piston slidable in the cylinder, a piston rod connecting the piston with said connecting bar to effect rocking movement of the shaft, an arcuate cam track on said rock shaft, a valve for controlling flow of pressure fluid to the pressure cylinder, an operating lever for the valve and having a portion projecting into the path of the pans, to be engaged by the pans for effecting operation of the piston, means on the arm for engaging the cam to hold the valve open for the full stroke of said piston, said cam track being of a length to pass off of said cam engaging means at the completion of the stroke for releasing said lever from holding the valve in said open position for return of the pan overturning means, and fulcrum means extending along the rock shaft for engaging the side of the pan opposite to the side engaged by the pan engaging member.

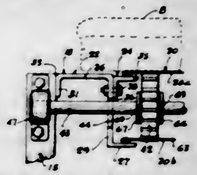
2,659,476

SUPPORTING FRAME STRUCTURE FOR CONVEYERS

Ernest F. Koerber, Chicago, Ill.

Application April 13, 1951, Serial No. 220,930

3 Claims. (Cl. 198—184)



1. In a conveyor of the type including laterally spaced supporting means, and an elongated belt disposed between said supporting means in two substantially horizontally extending passes, two supporting members mounted on said supporting means on opposite longitudinal sides of said belt for operatively supporting the latter, each of said supporting members comprising a bracket member having a substantially upright leg, lower leg, and upper leg, said upper and lower legs extending substantially horizontally and projecting in opposite directions from said vertical leg, and another bracket member removably mounted on said first mentioned bracket member and having a supporting surface disposed on the same side of said upright leg as said lower leg in substantially vertical alignment and parallel relation to said latter leg, said supporting surface being disposed below the upper surface of said upper leg a distance substantially equal to the thickness of one of said passes of said belt, each of said supporting members being mounted on said supporting means in such position that said lower horizontal leg thereof is disposed below the adjacent longitudinal side edge portion of one of said passes in supporting relation thereto, and said supporting surface is disposed between said passes and below the adjacent longitudinal edge portion of the other of said passes in supporting relation thereto.

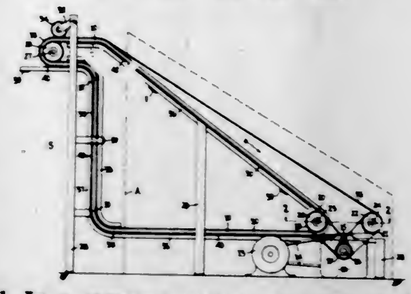
2,659,477

ENDLESS CONVEYER SYSTEM

George S. Lawson, Perry, and James C. Lawson, Euclid, Ohio, assignors, by mesne assignments, to The Barr Rubber Products Company, Sandusky, Ohio, a corporation of Ohio

Application January 18, 1950, Serial No. 139,264

6 Claims. (Cl. 198—203)



1. In a conveyor system, the combination of horizontally spaced parallel endless roller chains, a track underlying the rollers of the upper reach of said chains, an endless conveyor belt overlying said chains coaxially thereof, driving means en-

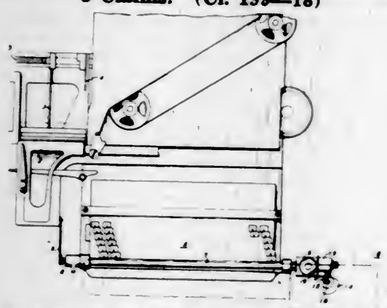
gaging said chains to effect movement thereof, a second group of endless roller chains overlying said conveyor belt in coplanar relationship to said first-named chains, a track underlying the rollers of the lower reach of said second-named chains, and driving means engaging said second-named chains to effect movement thereof whereby said belt is carried between said first-named and said second-named chains.

2,659,478

TYPOGRAPHICAL COMPOSING MACHINE

Paul Hilpman, Garden City, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York

Application December 21, 1950, Serial No. 202,087
8 Claims. (Cl. 199—18)



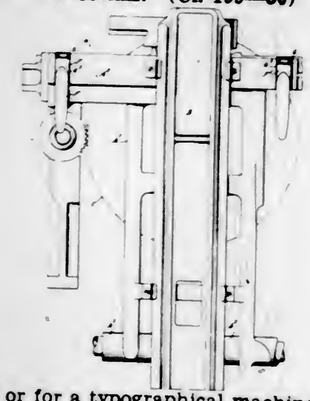
1. In a typographical composing machine, the combination of an assembling elevator wherein the line is composed, power driven means for automatically raising said elevator, a yielding power transmitting connection interposed between said power driven means and elevator, and an auxiliary substantially non-yielding power transmitting connection between the power driven means and elevator to initially set the elevator into motion.

2,659,479

TYPOGRAPHICAL MACHINE

James C. Plastaras, Lynbrook, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York

Application January 16, 1951, Serial No. 206,144
9 Claims. (Cl. 199—50)



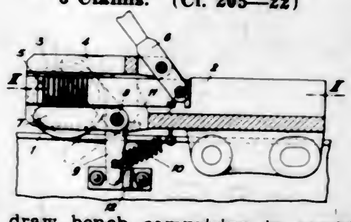
1. In or for a typographical machine equipped with a hinged vise frame and a banking stud for locating said frame in its normal position, a locking device for holding the vise frame against the banking stud, said device including, in combination, a fore-and-aft locking bolt mounted for pivotal and endwise movement to and from its locking position, a rotatable cam element pivoted to the forward end of the locking bolt and formed with two opposed low portions and an intermediate high portion, a recessed bearing block in which the cam element is mounted and which is open at the front, said block being formed with upper and lower horizontal bearing surfaces and with a rear vertical bearing surface for contact with the rotatable cam element, and a hand lever fastened to the rotatable cam element and operable to rotate it to two different positions within the recessed bearing block, said cam element in one of its rotated positions having its high portion arranged in engagement with the rear vertical bearing surface of the bearing block and its opposed low portions in engagement with the upper and lower horizontal bearing surfaces of said block to maintain the locking bolt in its locking position, and said cam element in the other of its rotated positions having one of its low portions in engagement with the upper horizontal bearing surface of the bearing block and its high portion in engagement with the lower horizontal bearing surface of said block to maintain the locking bolt in its unlocking position, the rotation of the cam element from the first mentioned position to the second mentioned position rocking the locking bolt from its locking to its unlocking position, and the rotation of the cam element from the second mentioned position back to the first mentioned position rocking the locking bolt from its unlocking to its locking position.

2,659,480

DRAWBENCH

Alfred Kreidler, Stuttgart, Germany

Application August 10, 1951, Serial No. 241,372
Claims priority, application Germany August 16, 1950
6 Claims. (Cl. 205—22)



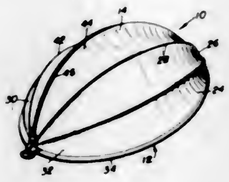
6. A draw bench comprising in combination a fixed base, a carriage adapted to be moved longitudinally along the said base, the said carriage including tongs adapted to hold material to be drawn, jaws disposed in the said tongs, a two-armed lever pivotally mounted on the said carriage for movement of one arm of the said lever through the said jaws in order to act as an ejector, and a spring-loaded stop removably mounted on the said base, the said stop being disposed in the path of the other arm of the said two-armed lever and upon continued movement of the said carriage causes said one arm to move through the said jaws and, thereby, to remove the drawn material from the said jaws upon abutting of the said other arm against the said stop, means for movement of the said stop from its normal position upon the said material becoming jammed, an electric motor for driving the said carriage on the said base, an electric switch member for said electric motor disposed on the said carriage within the path of the movement of the said stop which engages said switch member upon movement of the said stop, the said switch member being operated and the said electric motor being stopped by the movement of the said stop.

2,659,481

FOLDING HAT COVER

William S. Jones, Pittsburgh, Pa., assignor of one-half to Andrew Summers, Jr., Pittsburgh, Pa.

Application October 30, 1950, Serial No. 192,972
2 Claims. (Cl. 206—8)



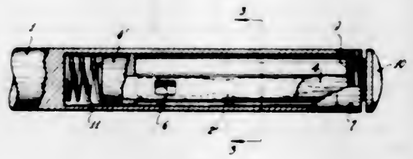
1. A folding hat box comprising a pair of bottom walls having edges hingedly connected together for relative swinging of said walls into side by side folded position and into coplanar unfolded position to support a hat, closure means attached to said walls, respectively, for covering said hat and collapsible into folded position to uncover the hat, and hat positioning means surmounting and connected to said walls on opposite sides of the hinge connection of said walls and comprising jointed sections foldable into side by side relation by swinging of said walls into folded position, and means operatively connected to and tensioning the sections of the hat positioning means against folding, the tensioned sections of the hat positioning means yieldingly opposing folding of said walls.

2,659,482

PENHOLDER

Felix de Hoffmann, Buenos Aires, Argentina

Application October 21, 1949, Serial No. 122,744
1 Claim. (Cl. 206—37)



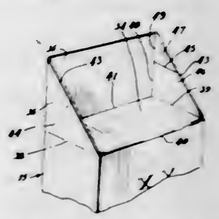
In a penholder, a body having a hollow portion open at one end thereof, a cap having internally threaded flanges defining an opening, said cap engaging said body at the open end thereof, a tubular receptacle disposed in the hollow portion of said body and adapted to house writing pens therein, a portion of the wall of the tubular receptacle being cut away thereby providing access to the interior thereof, an enlarged portion integrally formed on the inner end of said receptacle having a diameter greater than the opening defined by said flanges, said enlarged portion adapted to abut against said flanges when said receptacle is retracted from said body thereby preventing said receptacle from being completely withdrawn from said body, a threaded knob integrally formed on the outer end of said receptacle engaging said cap in the closed position of said receptacle, and a resilient member disposed at the inner end of said body portion urging said receptacle outwardly when said knob is released from said cap.

2,659,483

COMBINATION SHIPPING CARTON AND FLOOR STAND

Richard E. Paige and Mansoor Rafaat, New York, N. Y.; said Rafaat assignor to said Paige

Application December 5, 1951, Serial No. 259,958
4 Claims. (Cl. 206—44)



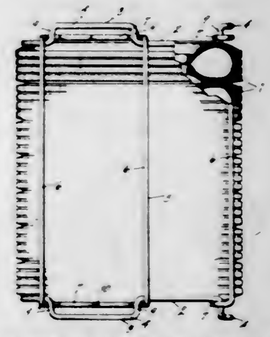
1. A display stand comprising a hollow body having front, rear and side end walls and a foldable top and display arrangement having front, rear and side end portions respectively foldably connected to the respective and corresponding front, rear and side end wall of the hollow body along horizontal fold lines and foldably connected to one another, each of the side end portions folded inwardly on itself along an inclined fold line extending between the horizontal fold line of the front portion and the upper edge of the rear portion, said front portion being folded inwardly and lying in a horizontal supporting position, each of the side end portions having a cut extending from its outer edge to the inclined fold line and providing two members one above the other, and a median fold line extending from the inclined fold line at the end of the cut to the bottom of the rear portion, whereby to permit the inward folding of the side end portions and the downward collapse of the rear portion.

2,659,484

DEVICE FOR PACKAGING TIRE CASINGS AND THE TIRE CASING ASSEMBLIES

Charles C. Averill, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich.

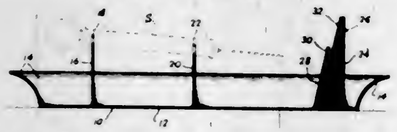
Application June 1, 1950, Serial No. 165,502
7 Claims. (Cl. 206—65)



1. A tire casing assembly comprising a plurality of tire casings disposed in side by side relation, annular end members of a diameter approximating but somewhat less than the outside diameter of the casings, said end members having a plurality of angularly and uniformly spaced axially offset loops therein, and a plurality of longitudinal tie members each comprising spaced side members and inwardly offset cross members engaged over said offsets of

said end members and in axial thrust sustaining engagement with the end members, said cross members being of V shape and engageable under the loops of the end members, the longitudinal members being engaged with the end members with the tire casings under sidewise compression stress.

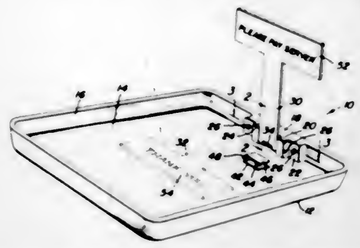
2,659,485
SYRINGE SUPPORTING AND IDENTIFYING TRAY
Roscoe A. Duley, La Mesa, and Merrel E. Hosler, San Diego, Calif.
Application March 14, 1952, Serial No. 276,514
1 Claim. (Cl. 206—72)



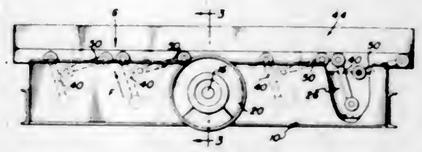
A tray for supporting and identifying the contents of a group of hypodermic syringes comprising a bottom, a flange carried by the bottom and extending upwardly and outwardly therefrom to define a shallow liquid tight vessel, a support bar carried by the bottom and extending upwardly therefrom intermediate the ends thereof, said support bar having longitudinally spaced recesses extending therethrough and opening through the upper side thereof, a second support bar carried by the bottom and extending upwardly therefrom in spaced parallel relation to the first mentioned support bar, said second support bar being of less height than said first mentioned support bar and having longitudinally spaced recesses extending therethrough and opening through the upper side thereof, the recesses in the support bars lying in registration and in a plane inclined downwardly toward the end of the bottom remote from the first support bar and being adapted to receive the barrels of hypodermic syringes for holding them in downwardly inclined and spaced parallel relation above the bottom, and a card holder carried by the bottom and extending upwardly therefrom in spaced parallel relation to the support bars adjacent the end of the bottom remote from the first support bar, said card holder having a card supporting surface raised from the bottom and lying in a plane substantially normal to said first mentioned plane for supporting an index card above the bottom and rendering visible above the syringes indices carried by said card.

2,659,486
CASH TRAY
Philip Krupin, Orange, N. J.
Application November 16, 1949, Serial No. 127,667
1 Claim. (Cl. 206—74)

In a cash tray, the combination of a dish-shaped receptacle including a bottom and an upturned marginal flange, a bracket secured to the inner surface of said flange, a horizontal hinge pin provided on said bracket, a cash clamping arm connected at one end thereof by said hinge pin to said bracket and swingable from a substantially horizontal clamping position wherein it lies flat on said bottom to a substantially upright position, said bracket affording a stop for said arm in its upright position, a coil spring positioned on said hinge pin and bearing against said arm for swinging the same upwardly, and a resilient catch mounted on said bottom and engageable with said arm when the latter is in its clamping position, said catch comprising a strip having a base portion secured to said bottom, an angulated intermediate portion movable in and out of engagement with said arm, and a depressible finger piece provided on said intermediate portion and spaced above said base portion.



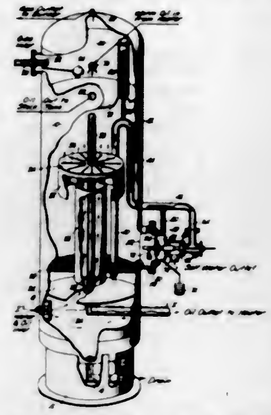
2,659,487
MECHANICAL MOVEMENT FOR SCREENING MACHINES
William R. Caler, Washington, Ind.
Application January 17, 1950, Serial No. 138,999
7 Claims. (Cl. 209—329)



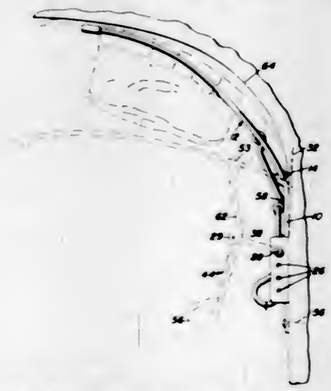
1. A screening machine comprising a base, a drive shaft having an eccentric and disposed on said base, a driving frame with an opening, said eccentric being disposed in said opening so that operation of said shaft imparts rotary motion to said driving frame, a screen frame vertically superimposed on said driving frame, substantially vertical driving rods connected with said screen frame and with said driving frame, guide links, each having a pair of ends, one end being pivoted to said screen frame and the other end being pivoted to said base, and the pivoted ends of each of said guide links being spacd horizontally farther apart than they are spaced apart vertically.

2,659,488
STRUCTURE FOR REMOVING FREE WATER FROM PRODUCTS HAVING OIL AND FREE WATER THEREIN
Elmer R. Williams, Springfield, Mo.
Application February 10, 1950, Serial No. 143,479
3 Claims. (Cl. 210—51)

1. A structure for removing free water from products having oil and free water therein, said structure comprising a settling tank; an upright, open top tube in the tank for conveying the products into the tank; means for whirling the products as the same rise in the tube; an inverted hood above the open top of the tube within the path of travel of products rising from the open top of the tube, said hood having a top wall provided with a number of slots disposed to receive the products as the same flow into the hood and wash against the top wall, said slots radiating from an axis aligned with the vertical axis of the tube; apparatus for removing free water from the tank as the same settles therein; and means separate from said apparatus for removing from the tank the residue of said products remaining after removal of said water therefrom.



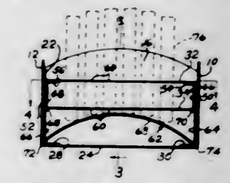
2,659,489
HATRACK FOR AUTOMOBILES
Will C. Searles, Denver, Colo.
Application November 16, 1950, Serial No. 195,946
4 Claims. (Cl. 211—32)



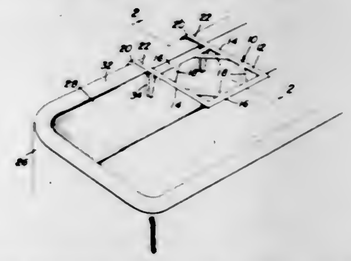
1. A hat holder comprising a base for mounting on a support, a substantially U-shaped rack, for the reception of a hat, hingedly mounted on the base, a crank mounted for swinging movement on the base, and a rod pivotally mounted, at an intermediate point, on the crank and having one end operatively connected to the rack for actuating said rack on the base.

2,659,490
DISPLAY BOX
William H. Swan, Rochester, N. Y.
Application August 14, 1950, Serial No. 179,311
3 Claims. (Cl. 211—69)

1. In a display box for cigarettes or the like composed of sheet fibrous material, an open top box having side and end walls, said end walls having bottom-engaging flaps, and one of said side walls having a bottom member having a bottom member flap engaging the other side wall, an independent member horizontally disposed within said box comprising spaced top and bottom decks having aligned apertures connected by side panels, one of said decks and said side panels at either end being provided with substantially rectangular tongues and flaps forming end walls adapted to hold the decks in parallel relationship with the box bottom member, and an independent member beneath said horizontally disposed member comprising a central curved arched portion having a central crown presenting a convex surface toward said spaced deck-forming member, and flaps hinged on the ends of the arched portion, said arched portion having its opposite ends seated in the corners formed by the bottom and end walls and being bowed therebetween and under compression, said arched portion being of a length greater than the longitudinal axis of the box, and said hinged flaps lying against and extending upwardly along said end walls and terminating to form shoulders at a height to engage and support said deck member in spaced relation above the crown of said arched portion.



2,659,491
RACK ATTACHMENT FOR BATHTUBS
Peter Richard Williams, San Antonio, Tex.
Application August 20, 1951, Serial No. 242,705
1 Claim. (Cl. 211—86)

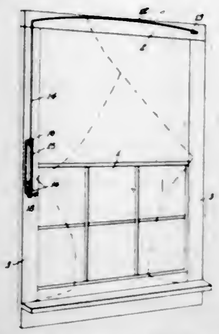


A rack for attachment to the edge of a bathtub comprising a substantially U-shaped flat frame including opposite sides having terminal right angled depending portions, and depending V-shaped portions spaced from said first named portions and forming therewith substantially U-shaped flat sided hooks on said opposite sides adapted to straddle said edge of the bathtub to hold said sides horizontal, and a cross member connected to said sides between said V-shaped portions.

2,659,492
CURTAIN HANGER WITH CURTAIN ROD ATTACHMENT
Albert Nobereit, Brooklyn, N. Y.
Application December 15, 1949, Serial No. 133,178
1 Claim. (Cl. 211—103)

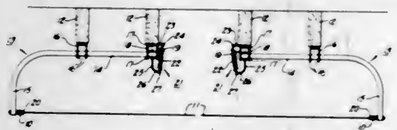
A curtain support including a bracket adapted to be attached to an intermediate portion of one side of a window frame and having an upper and a lower horizontal lug, each lug having an aperture therein, a metal rod bent at right angles to form a long vertical leg portion extend-

ing slidably through the apertures in said lugs and an upper substantially horizontal long integral cross member terminating in an inwardly directed hook, an L-shaped portion integrally extending from the lower end of the vertical



leg portion in substantial parallelism to the upper cross member, and a hook opening upwardly, formed on the lower end of the bracket below the lower lug to provide an entrance portion for said L-shaped portion and retain the same in locked condition of said metal rod.

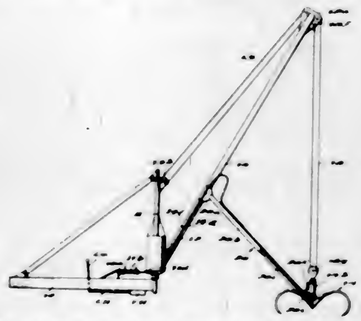
2,659,493
LAUNDRY HANGER
Eldon Kipp Ralston, Cleveland Heights, Ohio
Application May 29, 1946, Serial No. 673,030
5 Claims. (Cl. 211—119.16)



1. A laundry hanger comprising a horizontally extending spreader bar for supporting a clothesline, a plurality of hanger arms fastened to and suspending said spreader bar from an overhead support, said arms comprising horizontally extending pivot shaft portions of appreciable length and swing leg portions extending transversely of and integral with said horizontal shaft portions and pivotally connected adjacent their free ends to the spreader bar, and support means mounted on said overhead support and supporting the pivot shaft portions of said hanger arms at widely spaced points therealong and in parallel relation for rotation about their respective axes whereby the spreader bar may swing between a lowered operative position and a raised inoperative position.

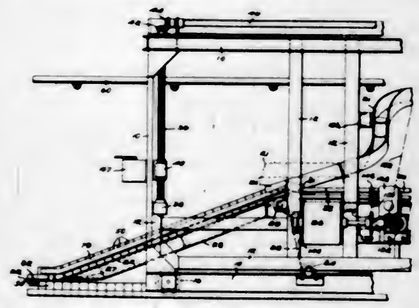
2,659,494
UTILITY LOADER
Vernon P. Broussard, St. Martinville, La., assignor of one-third to Elton J. Broussard and one-third to Paul O. Broussard
Application June 16, 1952, Serial No. 293,806
2 Claims. (Cl. 212—42.5)

1. A device of the class described comprising a hollow rectangular base proportioned for securement to the frame of a farm tractor in surrounding relation to the driver's seat thereof, a mast extending vertically from one forward corner of said rectangular base and rotatable about its vertical axis, diagonal bracing means extending from the top of said mast to the opposite forward corner and adjacent rear corner of said base, a boom hinged to said rotatable mast adjacent the lower portion thereof for swinging movement in a vertical plane, boom supporting cable means including a cable drum carried by said rotatable mast, a sheave at the upper end of said mast and a cable connecting the outer end of said boom to said drum via said sheave, a hoist suspended from the outer end of said mast comprising hydraulically operable grab means, a telescoping fork pivoted at one end to said boom and at its other end to said grab means and raisable and lowerable by said hoist in the vertical plane underlying said boom, said grab means comprising a hydraulic



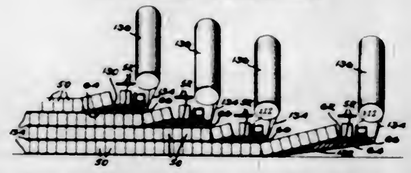
operating cylinder with conduits and valve means for connecting the same to a source of fluid pressure, said conduits being carried along said telescoping fork and boom and said valve means being carried by said rectangular base, a drum carried by said mast for raising and lowering said hoist, hydraulic motor means carried by said mast for operating said drum, a control valve for said motor means carried by said rectangular base, hydraulic means for rotating said mast, boom, fork and grab assembly, a control valve for said last named hydraulic means carried by said base, and means for operating said several valve means carried by said base within easy reach of one occupying a tractor driver's seat within said rectangular base.

2,659,495
CAN STACKER AND UNSTACKER
Richard M. Botley, Honolulu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a corporation of Hawaii
Application June 23, 1950, Serial No. 169,930
19 Claims. (Cl. 214—6)



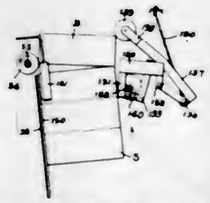
1. In a machine for stacking objects stackable in tiers or layers, a frame member movable both horizontally and vertically, positive tensioning means associated with said frame member for paying out sheet material under tension as said member is moved horizontally in one direction and means for depositing the objects to be stacked on said tensioned sheet material as it is paid out.

2,659,496
CAN STACKER AND UNSTACKER
Richard M. Botley, Honolulu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a corporation of Hawaii
Application August 16, 1950, Serial No. 179,682
17 Claims. (Cl. 214—6)



1. In a machine for stacking and unstacking objects stackable in superposed tiers or layers, a frame member linearly movable horizontally, means in association with said frame member for paying out and drawing in a plurality of belts under tension, a plurality of wedge elements associated with said frame member in fixed relation at a plurality of levels spaced apart by a distance equal to the spacing between said tiers or layers, said wedge elements underlying said belts as they are paid out and drawn in, and conveyor means through which each said belt is supplied with a layer of the objects in stacking operation of the machine, said conveyor means receiving the objects from said belts in unstacking operation of the machine.

2,659,497
UNSTACKER
Ernest A. Verrinder, Riverside, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application July 25, 1949, Serial No. 106,531
11 Claims. (Cl. 214—8.5)



1. In a box unstacker, the combination of: an elevator adapted to lift a stack of boxes in column form along a path aligned with said stack; a power driven rotary frictional box lifter located horizontally adjacent an upper portion of said path so that a side portion of an uppermost box on said stack comes into frictional engagement with said lifter and is lifted by the latter; a member disposed in said path so as to be contacted by said uppermost box as it rises therein; means for yieldably mounting said member to cause it to move, in response to engagement of said uppermost box with said member, to shift said member out of said path on the opposite side of the latter from said lifter; means operating to press said member against a side portion of said box opposite that side portion thereof which engages said lifter, whereby said member propels said box onto said lifter and the rotation of said lifter causes the movement of said box thereover to continue until said box is entirely removed from said path; and conveyor means for successively receiving boxes thus delivered from the upper end of said stack and over said lifter.

2,659,498
AUTOMATIC CAR LOADING STATION
Timothy F. McCarthy, Indiana, Pa.
Application May 3, 1947, Serial No. 745,755
14 Claims. (Cl. 214—42)

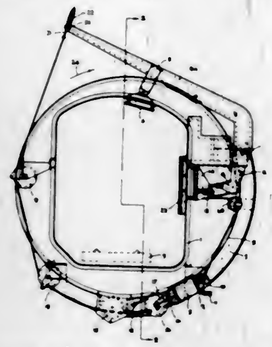


1. In an automatic loading station for loading a trip of mine cars with loose material such as coal, a main line conveyor supported in discharge relation with respect to a trip of cars movable along a mine track, a motor for driving said conveyor, a hoist for progressively moving the trip of cars beneath the discharge end of said main line conveyor, a motor for driving said hoist, a main power line, electric switching means operable by the first car of a trip of cars when said first car is spotted in material receiving relation with respect to said main line conveyor, for connecting said motor for said main line conveyor in said power line, to start said conveyor, and a flapper plate disposed adjacent the discharge end of said conveyor and depending from the mine roof, said flapper plate having a switching means associated therewith having first contacts normally open and second contacts normally closed, and being movable about an axis extending longitudinally of the mine car by the coal discharged on said car as it reaches a predetermined height, to close said first contacts and connect said hoist motor in said power line to start said hoist and cause said car to move along said track, to completely load said car to substantially the same level for its entire length, said flapper plate also being operable to open said second contacts and stop said main line conveyor when the level of coal in said car exceeds said predetermined height.

2,659,499
ROTARY TIPPLER FOR RAILWAY WAGONS
Robert Robson, Bexley Heath, England, assignor to The General Electric Company, Limited, London, England
Application December 18, 1948, Serial No. 66,045
1 Claim. (Cl. 214—55)

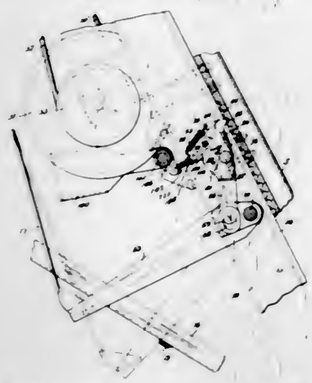
A rotary wagon tippler comprising a rotatable cage, supports in said cage for a wagon to be tipped, a sustaining beam for clamping the wagon during tipping, a lever arm carrying said sustaining beam and pivotally mounted on the cage, said pivotal mounting being at unequal distances from the ends of the lever arm, a weight mounted for movement in an arcuate path on and around the rotatable cage, a first elongated flexible member connected to said lever arm adjacent its end more remote from the pivotal mounting and extending over guiding pulleys mounted on the rotatable cage to a connection to said weight, gravitational force acting on said weight being arranged to apply tension to said first elongated flexible member during a part of the tipping operation to urge the sustaining beam into engage-

ment with the wagon, a second elongated flexible member arranged to act on the lever arm adjacent the end less remote from the pivotal mounting and connected to said weight, a supporting structure for said rotatable cage, and a stop on



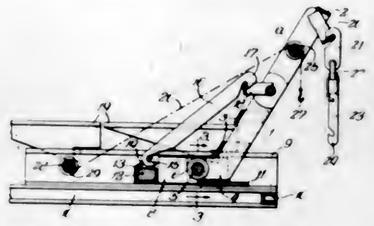
said supporting structure to prevent said weight from moving beyond a predetermined position thereby applying a force to move the sustaining beam away from the wagon towards the end of the return movement after the completion of the tipping operation.

2,659,500
ROTARY CAR DUMPER
John H. Kincaid, Cleveland Heights, Ohio, assignor to The Wellman Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application June 4, 1949, Serial No. 97,258
3 Claims. (Cl. 214—55)



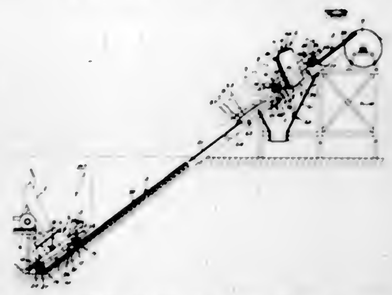
1. In a rotary car dumper comprising a cradle having a platen for receiving a railway car and a clamp movable to engage the car and hold the same in the cradle when the latter is rotated, said clamp having a toothed rack, the combination of a lever pivoted on said cradle, a link pivotally connected to said lever, a pawl pivotally connected to said link and engageable with the teeth of said rack, said pawl having limited pivotal movement relative to said link, a pendulum adapted to swing said link for engaging and disengaging said pawl from the teeth of said rack, a counterweight attached to said lever and operative in response to rotation of the cradle toward its inverted position to urge said lever to press said clamp to the car in the cradle through said pawl and rack, and means for limiting rotation of said lever in the opposite direction.

2,659,501
HOISTING DERRICK ADAPTABLE TO THE FRAMES OF TRANSPORTATION VEHICLES
Manuel Eduardo Pelaez, Burzaco, Argentina
Application March 13, 1948, Serial No. 14,714
5 Claims. (Cl. 214—86)



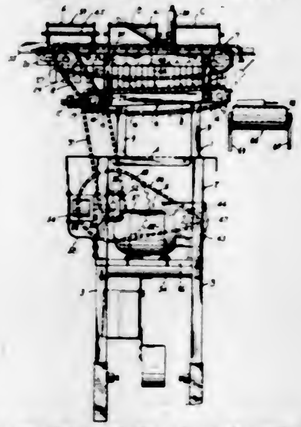
1. A hoisting device for vehicles having a main frame, comprising a pair of parallel spaced apart channel members connected to said main frame, plate members slidable in said channel members, a shaft extended transversely between said channel members and rotatably journaled in said plate members, a pair of beam members fastened to said shaft and inclined upwardly therefrom to project from the rear of the vehicle, detachable means connected between said channel members and said beam members normally supporting the latter in upper operative position, said slidable plate members and said shaft providing for swinging the upper end of said beam members toward the front of the vehicle into a recumbent position adjacent said channel members, winch mechanism carried by said channel members, a sheave carried by said beam members, and a hoisting cable trained from said winch mechanism over said sheave.

2,659,502
MINE SKIP
Lewis C. Erickson, Duluth, Minn., assignor to National Iron Company, Duluth, Minn., a corporation of Delaware
Application May 2, 1951, Serial No. 224,226
6 Claims. (Cl. 214—103)



1. A skip installation for use in an open pit mine comprising, a track mounted on the walls of said pit at substantially the same inclination as said walls, a wheeled frame adapted for traveling movement on said inclined track between a loading station and an unloading station, a load carrying body mounted for pivotal movement on said wheeled frame, means for propelling the loaded skip from the loading to the unloading station, a longitudinally extending cam groove at the unloading station, said groove being divided into two shallowly curved segments which have their lowest extremities at the division point between said segments, a guide roller mounted intermediate said segments in laterally spaced relation to said groove, a skip roller mounted on the forward end of the skip body and engageable with said cam to gradually tilt the skip body on said wheeled frame to its maximum load-dumping position as the skip passes over the unloading station, said cam groove being fashioned to gradually tilt the skip body from load-carrying to its maximum load-dumping position to cause the material to gradually discharge therefrom, and cam means adjacent said skip roller for engaging said guide roller for causing said skip roller to follow in a predetermined path through the segments of said cam to cause the skip to assume maximum dumping position with a minimum of cam width and permitting said skip to overrun its maximum dumping position without damage to it or to adjacent structures.

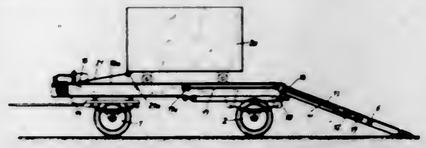
2,659,503
CONFECTION FEEDING AND RELEASING MACHINE
Edwin J. Otken, New Brunswick, N. J., assignor to Good Humor Corporation, Brooklyn, N. Y., a corporation
Application March 12, 1952, Serial No. 276,096
11 Claims. (Cl. 214—300)



4. In a machine of the class described in combination, a support, a confection carrying device movable on said support, a first conveying unit mounted on said support adapted to move said device from an entrance end to the discharge end thereof, said device having elements for releasably supporting a plurality of confections in depending positions, a second conveying and supporting unit having a discharge end and mounted on said support below said first unit and including confection supporting elements, a release member on the support for coaction with said carrying device to release confections therefrom onto the confection supporting elements aforesaid, and means for operating said units in timed relation.

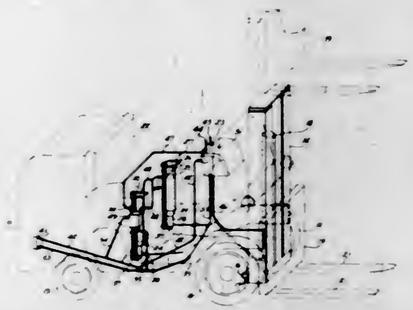
2,659,504
MOTOR VEHICLE OR TRAILER FOR TRANSPORTING PORTABLE CASES
Anton Kranawetvogel, Munchen, and Wilhelm Resin, Bochum, Germany, assignors to Emil H. von Lienen, Fahrzeugfabrik, Bochum, Germany
Application January 24, 1951, Serial No. 207,480
Claims priority, application Germany February 8, 1950
3 Claims. (Cl. 214—518)

1. A motor truck particularly for the transport of boxes comprising a wheel supported chassis composed of a longitudinal hollow center girder and two longitudinal hollow lateral chassis girders, a loading and unloading ramp composed of two lateral rails connected to said lateral girders and of a center arm ending short of the ramp length, a roller located within a vertical plane upon the rear end of said arm and a second



roller located upon the front end of said chassis, a power driven endless sprocket chain supported on said rollers, said center arm being operatively coupled with said endless chain, said lateral rails and said center arm of the ramp being located for a slidable displacement in the hollow center girder and the lateral chassis girders.

2,659,505
MECHANISM FOR CONTROLLING THE STABILITY OF MATERIAL-HANDLING MACHINES
Walter M. Shaffer, Cleveland, Ohio, assignor to Towmotor Corporation, Cleveland, Ohio, a corporation of Ohio
Application September 5, 1947, Serial No. 772,308
28 Claims. (Cl. 214—673)

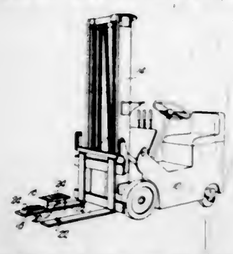


1. In a lift truck, a chassis, a mast pivoted thereon, a carriage slidable on the mast, a pump, a first hydraulic motor for elevating the carriage, a second hydraulic motor for decreasing the forward inclination of the mast in opposition to the force moment exerted by the carriage, the parts being so proportioned that less hydraulic pressure is required to decrease the mast inclination than to elevate the carriage, and a valve connected to the pump and second motor adapted to admit fluid from the pump to the second motor when the pressure therein reaches a predetermined value whereby the second motor is actuated to decrease the forward inclination of the mast.

2,659,506
GRAB BLOCK FOR FORK LIFT TRUCKS
Victor L. Watkins, Santa Monica, Calif.
Application April 9, 1951, Serial No. 220,118
3 Claims. (Cl. 214—750)

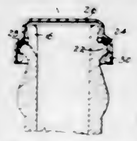
1. In combination with a perforated fork for an industrial lift truck of a grab block comprising a polygonal body having one face thereof engaging the normally uppermost face of said fork; a

shank on said one face of the body extending into said perforation; and a number of spaced, sub-



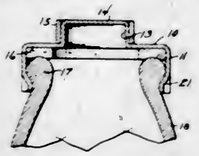
stantially V-shaped ribs on the opposite face of the body.

2,659,507
BEVERAGE CONTAINER
Frederick Jonker, Washington, D. C.
Application July 13, 1951, Serial No. 236,590
2 Claims. (Cl. 215—31)



1. A beverage bottle arranged to facilitate drinking therefrom by preventing the formation of a partial vacuum, said bottle having a neck portion comprising an annular sealing bead, an auxiliary annular neck portion extending above said bead, the maximum diameter of said auxiliary neck portion being smaller than that of said bead, and one or more lateral passages extending through the wall of said auxiliary neck portion from the top thereof downwardly to the level of the upper surface of said bead, said lateral passages extending axially within the bead and the bottom of each being inclined from the juncture of the outer wall of said auxiliary neck portion with the upper surface of said bead sharply downward toward the interior of said container.

2,659,508
CONTAINER CAP
Torstein A. Nygaard, San Pedro, Calif.
Application May 10, 1951, Serial No. 225,506
1 Claim. (Cl. 215—39)



In a cap for a container neck having an annular bead and an annular groove contiguous to said bead, a disk having a depending annular flange, a portion of the lower edge of said flange being crimped inwardly for engaging said groove, a cylindrical section extending upwardly from said disk, a closure wall extending across the upper end of said cylindrical section, said cylindrical section and flange being arranged concentrically, and said cylindrical section being of less diameter than the neck of the container to which it is applied, a reinforcing band surrounding said cylindrical section, and a washer interposed between said disk and the neck of the container, said band and cylindrical section being mounted for telescoping movement into the open neck of the container when force is applied to said closure wall whereby a portion of said disk assumes a frustro-conical form to cause the crimped portion of said flange to move out of its engagement with said groove.

2,659,509
BOTTLE CAP
Yue San Fong, Hong Kong, China
Application September 2, 1949, Serial No. 113,743
1 Claim. (Cl. 215—40)



A bottle cap comprising an outer shell of resilient sheet material including a top disk of concavo-convex shape and a skirt including a plurality of spring fingers extending marginally around said disk and substantially perpendicularly from one side thereof, said skirt being circumferentially contracted when the convexity of said disk extends in a direction away from said skirt and circumferentially expanded when the convexity of said disk extends in a direction toward said skirt and said disk being deflected from its skirt contracting to its skirt expanding shape by pressure on the central portion of the side thereof remote from said skirt and from its skirt expanding to its skirt contracting shape by pressure on the marginal portion of the side thereof remote from said skirt, a hollow knob projecting from the central portion of the side of said disk remote from said skirt to facilitate application of skirt expanding pressure to said disk, and a liner of elastic material secured in said outer shell and including a wall disposed against the side of said top disk from which said skirt extends, an annular boss extending from the side of said wall remote from said top disk and adapted to fit into the open end of an associated bottle neck, an annular flange projecting from said wall and circumspatially surrounding said annular boss in engagement with the inner side of said skirt, said flange being adapted to fit around the end portion of a bottle neck disposed between said boss and said flange, and an extension on said top wall filling said hollow knob and securing said liner in said outer shell.

2,659,510
STOPPER FOR CONTAINER CAPS
Albert H. Jung, Flushing, N. Y., assignor to Victor Industries Corporation, Brooklyn, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 139,797
2 Claims. (Cl. 215—43)

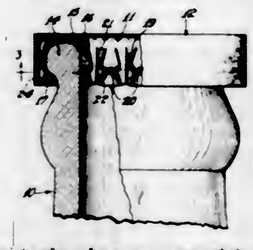
1. The combination with a bottle having an externally threaded neck and an end closing wall across the top of the neck, the wall having a central opening therein of lesser diameter than the inner diameter of the neck, of a relatively rigid bottle cap having an imperforate top wall and a dependent skirt provided with internal screw threads, a polyethylene insert having a distortable disc-like top and an elongated hollow

distortable stopper closed at one end by a rounded solid tip and open at the other end to form a conical depression in the central part of the disc-like top, said tip being freely movable relatively to the top, the stopper tapering downwardly and inwardly and being of greater length than the height of the central opening, the peripheral portion only of the disc-like top of the insert being secured to the top wall of the cap and the remainder of the insert being movable longitudinally of the cap and away from said top wall, the stopper passing completely through the central opening when the cap is screwed down along the bottle threads and becoming wedged and remaining wedged in said opening while the cap



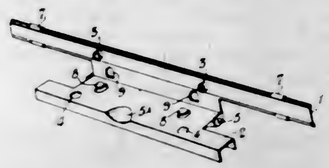
is partly unscrewed from the bottle and until the lifting and rotational forces on the stopper exceed the frictional resistance between the stopper and the walls of the opening, the least diameter of the opening being materially less than the diameter of the stopper at a point just below said opening when the bottle is capped by the cap, the central portion of the top of the insert being free to separate from the top wall of the cap during the initial part of the cap unscrewing operation and while the secured peripheral portion of the insert is lifted off the bottle with the cap, the insert thereafter rotating with the cap as a unit to unseal the central opening, and rotating with the cap as a unit during rotation of the cap in a sealing direction.

2,659,511
BOTTLE CAP
Walter A. Rice, Amsterdam, N. Y.
Application June 17, 1950, Serial No. 168,731
4 Claims. (Cl. 215—45)



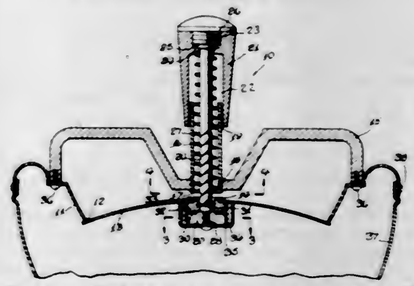
3. A receptacle closure comprising a metallic cap including a crimped depending skirt formed with corrugations consisting of alternately positioned inwardly extending projections for engaging a crown finish on a receptacle and outwardly extending vertical flutes, said flutes having a V-shaped section extending from the lower edge of said skirt to adjacent the upper end of said skirt and each of said flutes having a vertical slit formed therethrough substantially along its entire length at the apex thereof to provide a pair of contiguous, externally exposed sharp edges on each of said flutes; and a continuous cylindrical band of a softer material than said cap adapted to be positioned to surround said skirt to constrict said flutes and have said edges bite therein, the width of said band being substantially equal to the length of said skirt.

2,659,512
FILING DEVICE
Emil Jerzy Czerniawski, Bracknell, England
Application August 9, 1950, Serial No. 178,413
7 Claims. (Cl. 129—7)



1. A device for use with files having staples for retaining sheets of paper and the like, comprising a punch bar with two hollow dies having cutting edges for cutting holes in sheets of paper and the like and for receiving the staples of a file, said dies being disposed in spaced relation along the bar, a base member having two apertures therein for receiving the dies and the staples of a file, said apertures being spaced in the same relation as the two dies of the punch bar, means on said punch bar for co-operation with the staples of a file when said staples have been passed through the dies and apertures to hold the punch bar in a desired location upon the staples.

2,659,513
ASH TRAY WITH SPINNING CLOSURE
Louis H. Morin, New York, N. Y., assignor, by mesne assignments, to Murray Drexler, New York, N. Y.
Application October 1, 1951, Serial No. 249,149
3 Claims. (Cl. 220—20.5)



3. In an ash tray comprising a bowl and a closure for the opening in the bottom of said bowl, means for moving the closure downwardly away from the bowl opening and simultaneously imparting spinning movement to the closure comprising a bracket on the bowl above said closure, an upstanding tubular member open at the upper end thereof mounted centrally of said bracket, said member having an end wall at the lower end thereof formed with a rectangular opening, an elongated stem mounted in said tubular member and including a spiral portion passing through and engaging the sides of said end wall opening and arranged for combined axial and rotary movement, the upper end of said stem projecting above the open end of said tubular member, a knob on the upper end of said stem and means depending from said knob and concealing the upper portion of said tubular member, spring means within said tubular member and said depending means for returning said stem to an elevated position after said knob has been depressed, means coupling said closure to said stem comprising a pair of coaxial cylindrical members, a

bearing member of limited axial extent on said stem, one of said coaxial members being fixed on said stem below said bearing member, the other of said coaxial members rotating on said bearing member and being secured to said closure, a coil spring having successive axial portions respectively frictionally engaging circumferential portions of said coaxial members for imparting spinning movement to said closure upon rotation of said stem.

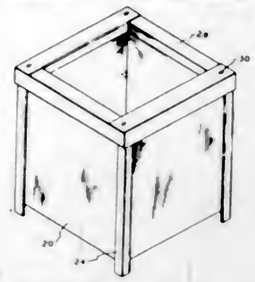
2,659,514
CHARGING DOOR FOR TRANSIT CONCRETE MIXERS
Robert M. Henderson, Bound Brook, N. J., assignor to Worthington Corporation, Harrison, N. J., a corporation of Delaware
Application May 31, 1950, Serial No. 165,147
1 Claim. (Cl. 220—46)



In combination with a rotatable drum on a transit concrete mixer, said drum having a charging opening in the wall thereof at its normal stopped top position, of a clamping ring in said opening about the circumference thereof and extending into said drum, said clamping ring including an annular flange on its inner portion turned radially inward and a pair of inturned flanges adjacent its outer edge extending radially inward, a door mounted in said clamping ring for closing said opening consisting of a dished disc having its outer perimetrical portion dished reversely to the dishing of the main body, and provided with an annular gasket on its outer edge to engage said annular flange when the door is mounted in said clamping ring, an internally threaded projection formed at the center of said door, a stud having a threaded portion thereon engaging said internally threaded projection, a shoulder on said stud above said threaded portion, a locking bar provided with a bore to receive said stud therethrough, a housing about said bore adapted to abut said shoulder on the stud for rotatably mounting said locking bar, a handwheel fixedly connected to the portion of the stud extending through said locking bar to move said locking bar into and out of locking engagement with said pair of inturned flanges on the outer edge of said clamping ring, and said housing in assembled position extending about the outer circumference of said internally threaded projection and slidable thereover during movement of said locking bar.

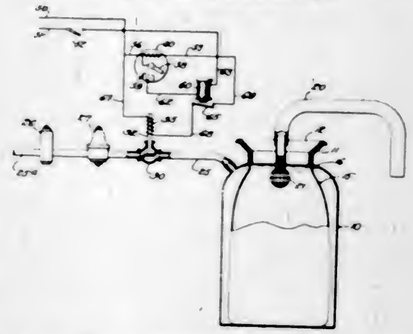
2,659,515
CONTAINER
Julius Miller, New York, N. Y.
Application April 4, 1950, Serial No. 153,965
2 Claims. (Cl. 220—80)

1. In a device of the character described, in combination, side panels having outward return bend flanges along the vertical and upper edges thereof, corner angle posts of greater length than said panels having inward return bend flanges along the vertical edges thereof interlocking with the flanges along the vertical edges of said panels, and a top frame member having an inverted U-shaped cross section fitting snugly over the upper edges and flanges of said panels, said panels



resting, by means of the flanges along their upper edges, upon the upper ends of said posts.

2,659,516
LIQUID DISPENSER
William P. C. Smith, Rockport, Mass.
Application May 25, 1949, Serial No. 95,303
4 Claims. (Cl. 222—70)

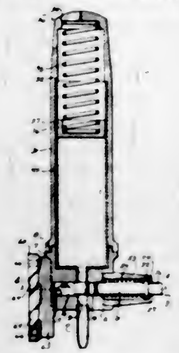


1. A device for dispensing liquid in predetermined amounts comprising a closed container, a flexible bag in said container having a liquid discharge line connected from its top, a supply line connected to said container externally of said bag and supplying fluid under controlled constant pressure to said container, a control valve in said supply line, means to open said valve, said valve opening means including automatic timing mechanism operating to hold said valve open for a predetermined period and then to close it, the fluid under pressure in said supply line thereby operating to deflate said bag and to discharge liquid from it in successively equal increments predetermined by the volume of liquid passing said control valve when the latter is open.

2,659,517
PASTE TYPE PRODUCTS CONTAINER AND DISPENSER THEREFOR HAVING A CUTTER-VALVE FOR OPENING THE CONTAINER
Carl H. Reinhardt, Jr., Milwaukee, Wis.
Application September 21, 1951, Serial No. 247,588
7 Claims. (Cl. 222—82)

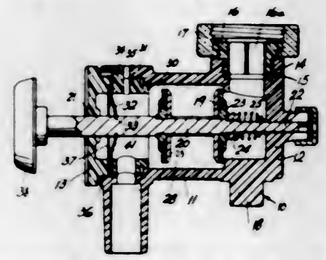
1. In a device coacting with an open ended container for opening the other end of the container and for pressing on the contents of the container, a discharge piece having a recess for seating one end of the container, the discharge piece having a passage thereinto and a bore therethrough for discharging contents from the

container, a cutter-valve member acting in the discharge piece passage for opening the one end of the container and for controlling the flow of contents therefrom, a cap piece attachable to and detachable from the discharge piece for co-



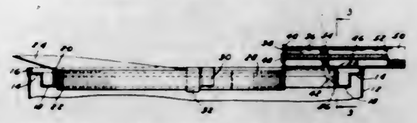
action with the discharge piece in enclosing the container, and means in the cap for pressing on the contents of the container for causing flow of the contents through the discharge bore upon positioning the valve member for such flow.

2,659,518
MEASURING VALVE WITH RIGIDLY CONNECTED RECIPROCATING VALVES
John H. Donnelly, New York, N. Y.
Application July 13, 1949, Serial No. 104,539
9 Claims. (Cl. 222—449)



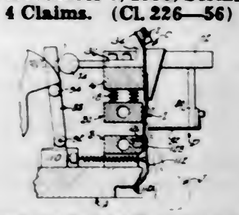
1. A measuring valve comprising an annular body open at its front end and provided with a rear end wall, said body having a top inlet opening adjacent its rear end, and being formed with a bottom outlet opening adjacent its front end, a plug closing the front open end of said body, said valve body being formed with an annular valve seat disposed forwardly of the inlet opening, and being formed with a second valve seat spaced from the first valve seat and disposed rearwardly of the outlet opening, said front plug being formed with an axial through opening, said rear end being formed with an opening coaxial with the opening in the front plug, a valve stem passing through the opening in the front plug, the rear end of said valve stem being received in the opening in said rear end of the body, a valve disc fixed on said valve stem and adapted to engage the valve seat adjacent the inlet opening, and a second valve disc on said valve stem spaced from the first valve disc and adapted to engage the valve seat adjacent the outlet opening, said valve stem being reciprocable to selectively engage said valve discs with said valve seats, and a knob on the front end of said valve stem, the opening in the rear end of the valve body being a through opening, a washer closing said opening and a cap screwed to said rear end and pressing said washer against said through opening in said rear end.

2,659,519
POURING ATTACHMENT FOR PAINT CANS AND THE LIKE
John W. Allen, Detroit, Mich.
Application January 7, 1952, Serial No. 265,279
3 Claims. (Cl. 222—567)



1. A pouring attachment for paint cans and the like comprising, in combination, a ring-shaped member of a size to be received within the rim of a paint can and lie in the plane thereof, said member having a segmental portion of its perimeter formed of a band of flexible radially expandible material, a pouring lip secured to said band and conforming to the curvature thereof and being arranged to extend upwardly and outwardly over the adjacent portion of the rim of a paint can in which the ring-shaped member is received, an elongated body secured at one end to the member in diametrically opposite relation to the lip and extending radially outwardly from the member, said body lying in a plane offset upwardly from that of the ring-shaped member to overlie the rim of a paint can in which the latter is received and project outwardly therebeyond, a depending element carried by the body and shiftable into engagement with the rim of a paint can in which the ring-shaped member is received, and manually controlled means connected to said element and operable to cause the element to shift into engagement with the rim of the paint can and react therewith to expand said lip carrying portion of the ring-shaped member into sealing engagement with the rim.

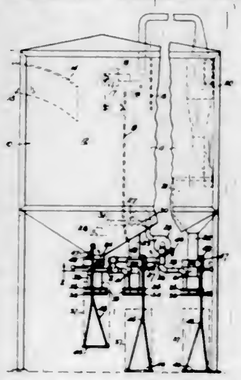
2,659,520
SEALING MACHINE WITH AUTOMATIC LABELING
Herbert Louis Reitzes, Los Angeles, Calif., assignor to Globe Products Heat Seal Corporation, Los Angeles, Calif., a corporation of California
Application November 3, 1950, Serial No. 193,865
4 Claims. (Cl. 226—56)



1. In a machine for sealing a bag and affixing a label thereto, a base, a first heated platen, a second heated platen, an electric motor adapted to run continuously, a pivoted lever, a first cam, a second cam, a one revolution clutch operatively connected between said motor and said cams for driving said cams, means to crease a bag and label simultaneously, said means being adapted to insert said bag and label between said first and second platens, said first platen being mounted on said base, said second platen being resiliently mounted on one end of said piv-

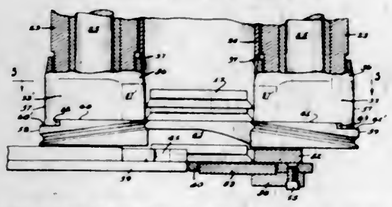
oted lever, the other end of said pivoted lever being adapted to be actuated by said first cam to move said second platen into complementary relationship with said first heated platen to seal a bag and label together by the action of the heat of said platens, and said second cam being adapted to actuate said means to crease a bag and label simultaneously, and an electrical control circuit to initiate the start of the revolution of said clutch.

2,659,521
APPARATUS FOR TREATING AND BAGGING PERLITE AND THE LIKE
Ernest O. Howle and Roger W. Jackson, Chicago, Ill., and Norman M. Foster, New Castle, Ind.; said Jackson and said Foster assignors to said Howle
Application December 26, 1947, Serial No. 793,926
4 Claims. (Cl. 226—70)



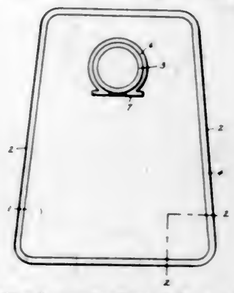
1. In apparatus for expanding perlite and the like the combination comprising a bin, means for discharging freshly expanded granules into the bin, a discharge spout leading from the bottom of the bin, an air conduit in said bin having its discharge orifice arranged to discharge cooling air in the interior of the pile of granules in the bin, said discharge spout having an outlet arranged to discharge granules into a packaging container, a suction fan having an inlet adjacent said spout outlet to carry away dust arising from the discharge from said spout, said fan being connected with said air conduit to discharge air and the dust carried thereby into the interior of the pile of granules in said bin.

2,659,522
CAP FEEDING MECHANISM
Eric O. Ninneman, George L. Webster, John Hohl, and Olav Bjering, Toledo, Ohio, assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application November 30, 1950, Serial No. 198,461
14 Claims. (Cl. 226—88.1)



1. An apparatus for feeding closure caps comprising a pair of cylindrical rolls spaced apart and mounted for rotation about their axes, means providing a channel for guiding a stack of closure caps between said rolls, the uppermost portion of each of said rolls being tapered upwardly and inwardly thereby restricting the channel to facilitate travel of the caps between the rolls, and the lower portion of each of said rolls including means for removing a cap from said stack and discharging it when the rolls are rotated.

2,659,523
PROTECTIVE BIB FOR VEHICLES
William R. Comber, Erie, Pa.
Application February 3, 1949, Serial No. 74,340
3 Claims. (Cl. 226—129)



1. A combined protective bib and tubular extension for disposal over the open end of a filling pipe of a vehicle comprising a comparatively flat member having an aperture in one end thereof, a marginal bead surrounding said comparatively flat member defining oppositely extending beads on the margin of opposite sides of said member, and a laterally outwardly extending, tapered tubular extension surrounding said aperture for connecting said bib to the mouth of a filling pipe in a well in a vehicle body, said combined protective bib and pipe extension having one side adapted for disposal on an open filling pipe on substantially a level with the surface of a vehicle body and the opposite side with a tubular extension adapted to extend from the open end of a filling pipe to a position above the level of the surface of the surrounding vehicle body.

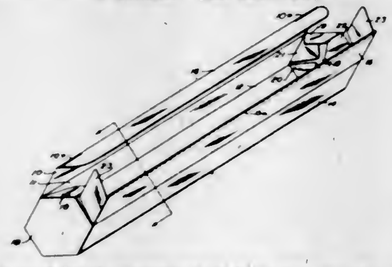
2,659,524
HANDLED CARTON
Joseph A. McElwee, Rittman, Ohio, assignor to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio
Application April 11, 1951, Serial No. 220,417
2 Claims. (Cl. 229—16)



1. In a handled carton, a body comprising a bottom wall member, a top wall member, and two side well members, each of said side wall members carrying at each of its side edges a part of an end wall member, said end wall parts being joined in pairs to each other and to the bottom wall member by a gusset-folding member, and each pair of same being edge joined to form a complete end wall, said top wall member being integral with and an extension of one of said side

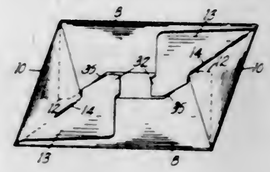
wall members and provided with a handle extension, and the other side wall member being provided with a handle extension, one of said extensions being substantially double the area of the other said extension, said handle extensions offstanding from the junction of said top wall member and said side wall member and being secured together with the extension of double area medially folded and arranged in face-to-face contact with both faces of the other extension to form the carton handle in multiply arrangement and to fix the top wall member in carton closing condition.

2,659,525
POLYGONAL BOX
Oskar W. Wikstrom, Newton, Mass., assignor to United States Automatic Box Machinery Co., Inc., Roslindale, Mass., a corporation of Massachusetts
Application February 17, 1949, Serial No. 76,998
1 Claim. (Cl. 229—33)



In a folded paperboard box for use in a dispensing package for sheet rolls, an elongate tubular hexagonal body for use in horizontal position, comprising an elongate rectangular horizontal bottom wall, lower front and lower back side walls continuously along and integral with the respective horizontal longitudinal edges of the bottom wall, an upper back side wall coextensively along and integral with the lower back side wall, glue flap extensions hinged at the opposite ends of each of said lower front, lower back and upper back side walls and infolded at right angles thereto, the bottom wall having extensions at each end by an amount equal to the thickness of said side wall glue flap extensions and having integrally formed across each of said end extensions an hexagonal vertical end wall turned flatwise against and adhesively secured to said side wall glue flap extensions in fixed relation thereto permanently closing the ends of said tubular hexagonal body, said hexagonal vertical end walls having at the transverse edges opposite the respective bottom wall extensions infolded quadrilateral dust flaps each with a longitudinal edge portion having a lateral projection positioned to intersect the vertical plane containing the bottom wall front longitudinal edge, a pair of hinged openable non-sealed adhesive-free elongate rectangular top and upper front side closure walls coextensive with the mentioned side walls and hinged along opposite longitudinal edges to the upper longitudinal edges respectively of the upper back side wall and the lower front side wall and hingingly closeable toward each other into longitudinal juncture respectively in horizontal and in inclined planes completing the closure of said tubular hexagonal body, said hinged top closure wall carrying an adhesive-free longitudinal tuck flap, said hinged upper front side wall having at each end a transverse tuck tab receivable in closed position along the inner face of the adjacent end wall and with the upper longitudinal edge of each said tuck tab abuttively underlying the closed hinged top wall, and longitudinal locking recesses at the ends of the top wall longitudinal tuck flap engageable respectively with the aforementioned projections of the longitudinal edge portion of the dust flap of the adjacent hexagonal end wall thereby to retain both the hinged closure walls in closed position.

2,659,526
AUTOMATIC SETUP CARTON
Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.
Application May 19, 1951, Serial No. 227,203
7 Claims. (Cl. 229—39)



3. A collapsible carton formed of an integral blank comprising hingedly connected side and end walls, opposed side bottom members hingedly connected to the side walls and of a length substantially corresponding to that of the side walls and of a width approximately one half that of the erected carton so that the bottom members complement each other and lie edge to edge when the carton is erected, and end bottom members hingedly connected to the end walls and having inclined edges provided with hinged attaching flaps, the attaching flap of one end bottom member being secured to the under side of one side bottom member at one end thereof and the attaching flap of the other end bottom member being secured to the under side of the other side bottom member at the opposite end thereof whereby the bottom members are automatically swung to erected position when the walls of the carton are swung from collapsed to erected position, the attaching flaps having laterally projecting tongues which are positioned on the inner sides of the side bottom members when the carton is erected and the inner edges of which have interlocking engagement with each other when the carton is in fully erected position.

2,659,527
PAPER CUP HANDLE
Julius Gus Liebenow, Berwyn, Ill.
Application June 16, 1949, Serial No. 99,490
1 Claim. (Cl. 229—52)



In combination with a nestable paper cup or similar article, a handle structure which comprises a pair of symmetrical and opposite curvedly contoured handle element cut-outs hingedly supported along elemental lines of the

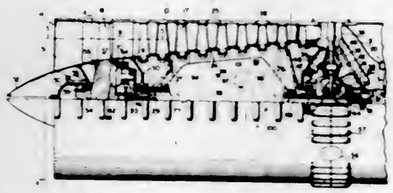
cup in spaced relationship from each other and substantially parallel, said cut-outs being swingable about their elemental hinge lines from a reposed position lying against the surface of the cup to a utility position generally perpendicular thereto and with extremities in abutting relation to each other, and means for inter-engaging said handle element cut-outs to each other which comprises oppositely incised parallel tabs adapted to be flexed into overlapping contiguous placement and slid into each other's incision spaces and wedged into clamping engagement thereat as their handle element cut-outs are wipingly brought into contour registration each with the other, said cut-outs being bail formations with inner and outer contours and having substantial parallelism at least between portions of their inner and outer contours and the tab incisions being located in the inner contour of one and in the outer contour of the other cut-out at identical planes perpendicular to the elemental hinge lines.

2,659,528

GAS TURBINE COMPRESSOR SYSTEM

Nathan C. Price, St. Helena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application September 29, 1948, Serial No. 51,685
11 Claims. (Cl. 230—114)



1. A compressor system for a turbo powerplant having a turbine rotor element, said system comprising a final stage compressor driven by said element and supplying compressed air to the powerplant, an intermediate stage compressor delivering compressed air to the final stage compressor, a speed reducing drive connecting the intermediate stage compressor with the final stage compressor to be driven thereby, a first stage compressor ahead of the intermediate stage compressor for delivering compressed air thereto, the first stage compressor being characterized by supersonic blading, and a variable speed drive, connecting the first stage compressor with the final stage compressor to be driven thereby.

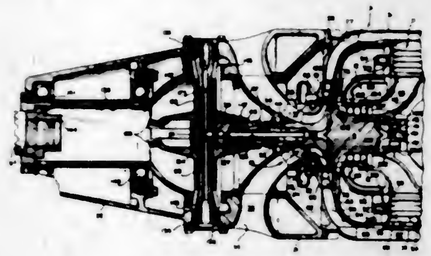
2,659,529

COOLING MEANS FOR THE ROTORS OF GAS TURBINE POWER PLANTS

Nathan C. Price, Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Original application June 2, 1945, Serial No. 597,308, now Patent No. 2,613,501, dated October 14, 1952. Divided and this application March 3, 1948, Serial No. 12,821
2 Claims. (Cl. 230—116)

1. In a gas turbine power plant; a continuous elongate compressor-turbine rotor body including a portion of increased diameter spaced between its ends, a bladed compressor portion at one side of said portion of increased diameter, a bladed turbine portion at the other side of said portion of increased diameter, and axle portions on the ends of the rotor body, the rotor body having a coolant chamber of large diameter in the radial plane occupied by said portion of increased diameter, having a coolant supply passage leading through one axle portion and the compressor portion to said chamber to conduct coolant thereto so that the chamber and coolant therein serve to assist in thermally isolating the compressor portion from the hotter turbine portion, having a plurality of individual



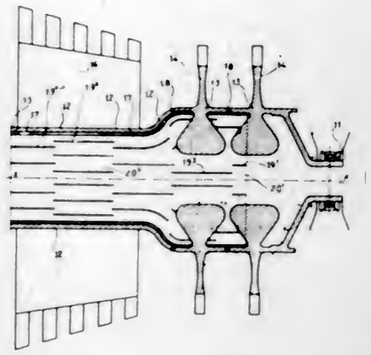
circumferentially spaced coolant ports of relatively small diameter extending from said chamber and passing through the turbine portion in adjacent but inwardly spaced relation to the periphery thereof, and having a common passage in the other axle portion joining said ports to receive the coolant therefrom.

2,659,530

HOLLOW DRIVE SHAFT CONSTRUCTION FOR TURBINE DRIVEN COMPRESSORS

Michel Robert Garnier and Jules Cyprien Joseph Poujade, Paris, France, assignors to Societe dite: Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Societe Anonyme, Paris, France, a French company

Application July 9, 1948, Serial No. 37,953
Claims priority, application France July 11, 1947
6 Claims. (Cl. 230—116)



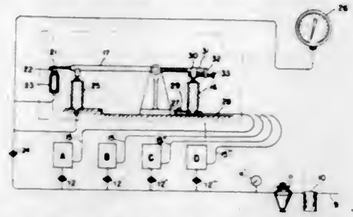
3. In a gas turbine a rotor, a hollow rotor shaft directly connected to said rotor and extending axially from said rotor, a rotary compressor mounted on and connected to said shaft and spaced thereon from said rotor, said hollow shaft having an outer solid wall, an inner lining made of a material having a considerably higher coefficient of thermal conductivity than that of the material forming said outer wall, said inner lining having longitudinally extending slits formed therethrough at intervals throughout its length and means connecting said inner lining to said outer wall.

2,659,531

TOTALIZING APPARATUS

John C. Thoresen, Warwick, R. I., assignor to Builders Iron Foundry, Providence, R. I., a corporation of Rhode Island

Application February 3, 1949, Serial No. 74,269
2 Claims. (Cl. 235—61)



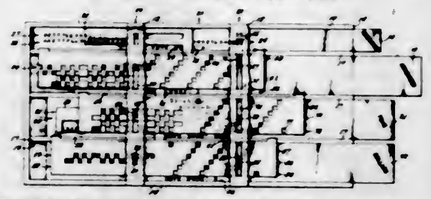
1. Apparatus for integrating values of a plurality of variable forces comprising a base member, a torque member disposed above said base member, in bearings fixedly located on said base member, a plurality of torque arms rigidly attached to said torque member and disposed in the same plane and in one direction therefrom, a plurality of pressure receiving units disposed on said base member beneath said torque arms each unit having a bellows and a member connecting the free end thereof to its corresponding torque arm, tubular connections to said bellows for the admission of variable pressures thereto, a single torque arm rigidly attached to said torque member and disposed in the same plane as said plural torque arms but in the opposite direction therefrom relative to the axis of said torque member, a single pressure receiving unit disposed on said base member beneath said single torque arm and having a bellows and a member connecting the free end thereof to said single torque arm, a tubular connection to said single pressure receiving unit for the admission of a controlled pressure thereto, a source of pressure, pressure regulating means connected to said pressure source and operated by said single torque arm to control the magnitude of the pressure admitted to said single pressure receiving unit, and pressure actuated means to indicate the magnitude of said pressure.

2,659,532

SLIDE-TYPE CALCULATOR

Frank H. Brickner, Newport Beach, Calif.

Application June 9, 1952, Serial No. 292,410
12 Claims. (Cl. 235—89)



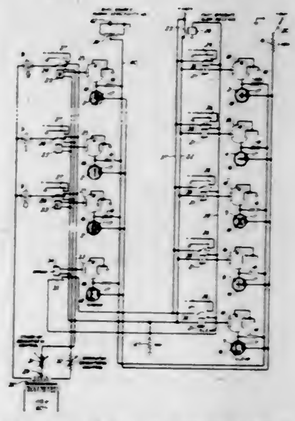
5. Calculator for ascertaining interest on loans, comprising an envelope having a rectangular flat cover and a rectangular flat back spaced therefrom, said cover and back being secured together at three of their adjacent edges, the fourth edge being open, a plurality of spacers secured to said back and interposed between said cover and said back extending from said open edge at right angles thereto, said spacers forming with said cover and back slideways for sliders, a plurality of flat elongate sliders disposed in the slideways formed by said cover back and spacers, said cover having a plurality of windows therein, said sliders having numbers marked thereon registrable wtih the windows in said cover, certain of said sliders having first shutters secured laterally thereto and overlying a slider at one side thereof, and second shutters secured laterally thereto and overlying a slider at the other side thereof, said first and second shutters having windows therein registrable with the windows in said cover and with the numbers on the respective sliders which said shutters overlie.

2,659,533

TOUCH-RESPONSIVE KEYBOARD

Edwin J. Quinby, New York, N. Y., and Walter S. Oliwa, Orange, N. J., assignors to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Application January 27, 1951, Serial No. 208,216
8 Claims. (Cl. 235—145)



1. A keyset comprising a translucent table of insulating material, conductor terminals exposed on the front side of said table and placed according to keys of a conventional keyset, gaseous discharge tubes each fired by a finger touch on a respective one of said terminals, relays operated, each on firing of said tube lamps each arranged and adapted to illuminate a different small area surrounding one of said conductor terminals, a "stand-by voltage" source for lighting said lamps dimly, an "indicating voltage" source for lighting selected ones of said lamps with additional brilliance in response to the operation of corresponding ones of said relays, and adjustable rheostats in the circuits of said lamps whereby the intensities of illumination are regulable both under "stand-by" and "indicating" conditions.

2,659,534

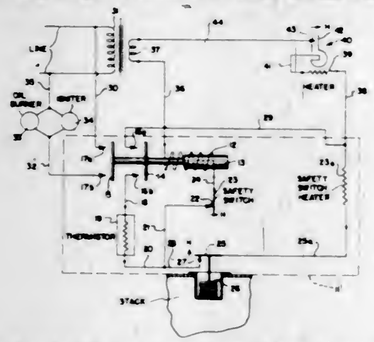
THERMOSTATIC CONTROL DEVICE AND BURNER SYSTEM

James W. Smith, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application April 23, 1951, Serial No. 222,426
10 Claims. (Cl. 236—9)

1. A heating system comprising fuel burning means, a thermostat having switching means and a first resistance heater in series therewith for artificially heating said thermostat in accordance with the electrical current flowing through said heater when said thermostat is calling for heat, a source of electrical power having one lead connected to said thermostat, a heat motor operated

safety switch and a relay connected to a second lead from said source, a combustion responsive stack switch, a second resistance heater for said safety switch connected in series with said stack switch, said stack switch and second heater being electrically connected to said safety switch and said first heater to thereby complete an energizing circuit for said relay depending upon said thermostat calling for heat and upon said stack switch responding to the absence of combustion, said first heater thereby heating said thermostat in accordance with the electrical current flowing in said energizing circuit, a first relay switch for controlling the operation of said fuel burning means to energize said fuel burning means upon said relay being energized, a second relay switch, a resistor having a negative temperature coefficient of resistance, said resistor having a substantially high resistance value when cold and



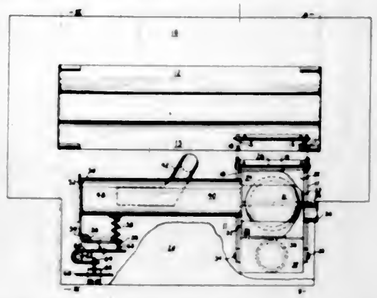
being heated by current flow therethrough with said resistance value lowering as said resistor is heated, and a circuit including said resistor in series with said second switch shunting said second resistance heater and said stack switch to thereby complete a further energizing circuit for said relay dependent upon said thermostat calling for heat and independent of said stack switch responding to the absence of combustion, said last named circuit being ineffective to operatively energize said relay when said resistor is cold and being effective to operatively energize said relay only after a time delay during which said resistor has been heated to lower its resistance value, the resistance value of said resistor when cold being such as to limit the current flow through said last named circuit to a low value to thereby maintain the current flow through said first resistance heater substantially constant during said time delay.

2,659,535
AIR VOLUME CONTROL SYSTEM AND APPARATUS

Clifford Hotchkiss and Justin A. Deubel, Milwaukee, Wis., assignors to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application July 28, 1950, Serial No. 176,358
8 Claims. (Cl. 236—49)

1. In an apparatus for controlling the flow of heated air from a source thereof into a room the temperature of which is to be maintained at a selected value: a thermal sensing element responsive to the temperature of the room, a thermal responsive member operable to vary the flow of heated air into the room, an enclosure for said thermal responsive member having inlet and outlet openings, a conduit for the transmission of heated air from said source into said enclosure, closure means for said outlet opening operable by said thermal sensing element for selectively directing heated air from said conduit to said thermal responsive member and for utilizing the kinetic energy of the heated air trans-

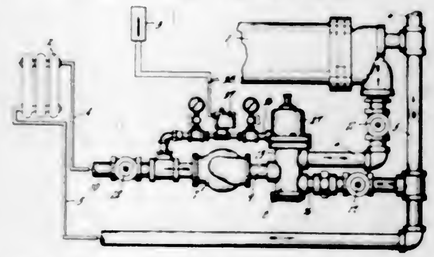


mitted through said conduit to draw air from the room through said inlet opening to said thermal responsive member dependant upon the deviation of the room temperature from said selected value.

2,659,536
HEATING SYSTEM AND CONTROL THEREFOR

Adam E. Armstrong, Three Rivers, Mich., assignor to Armstrong Machine Works, Three Rivers, Mich.

Application October 1, 1951, Serial No. 249,104
10 Claims. (Cl. 237—8)

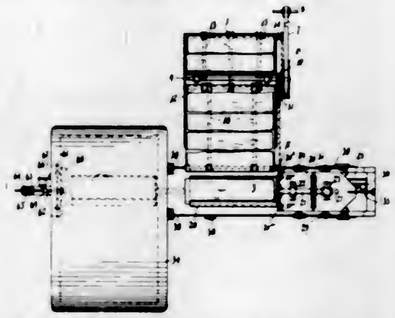


1. The combination in a heating system including a boiler, a heat exchange unit, feed and return conduits connecting said boiler and heat exchange unit and a circulating pump disposed in the feed conduit, of a thermostat in the heated space, a circulation control valve disposed in the feed conduit between the boiler and pump and comprising a casing provided with a feed port connected to the feed conduit in advance of the pump and a by-pass port connected to the return conduit, the inlet of the pump opening to said casing between said ports, said ports being in aligned spaced relation, said valve casing having a pressure chamber therein, a valve member reciprocatingly supported between said ports to alternately coact therewith, said valve having a stem projecting into said pressure chamber, a spring acting to bias said valve member to feed port closing position, a bellows disposed within said pressure chamber and connected at its free end to said stem, the interior of the bellows having an opening to said casing in advance of the feed port, a pressure conduit connected to the discharge of the pump and to said pressure chamber, said bellows having a restricted pressure equalizing opening to said pressure chamber, and a normally seated solenoid controlled valve for said pressure conduit operatively connected to said thermostat.

2,659,537
FEEDING MECHANISM FOR WOOD PULP GRINDERS

James J. Keon, Owen Sound, Ontario, Canada, assignor to The William Kennedy & Sons Limited, Owen Sound, Ontario, Canada, a corporation

Application October 27, 1950, Serial No. 192,409
5 Claims. (Cl. 241—222)

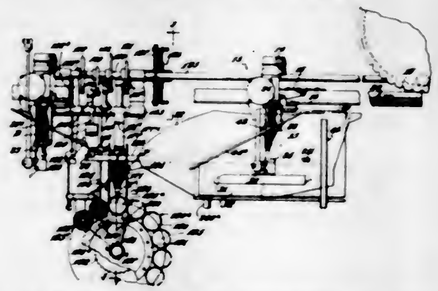


1. Feed mechanism for feeding logs to a grinder, comprising a receptacle adapted to receive and support a log, means for reciprocating the receptacle to and from the grinder, means for turning the receptacle about its axis to discharge the log into the grinder, means normally retaining the receptacle in partly raised position but responsive to the weight of a log to permit the receptacle to drop to a lower position and means actuated by the dropping of the receptacle for automatically starting the reciprocating means when the receptacle drops under the weight of a log.

2,659,538
WINDING MACHINE

Winthrop L. Perry, Wilton, N. H., and Edward J. Abbott, deceased, late of Wilton, N. H., by Samuel L. Abbott, executor, Wilton, N. H., assignors, by mesne assignments, to Abbott Worsted Mills, Incorporated, Wilton, N. H., a corporation of New Hampshire

Application November 29, 1949, Serial No. 129,898
65 Claims. (Cl. 242—35.6)

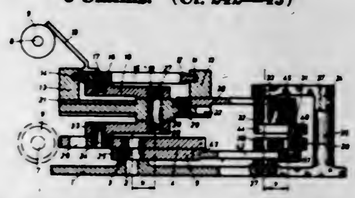


1. A winding machine comprising in combination means for rotatably holding a bobbin for winding of a thread thereon from a supply, means for holding a new thread extending from a different supply, unattached to the winding bobbin, means for automatically replacing the wound bobbin with a new bare bobbin by discharging the wound bobbin from the holding means and delivering a new bare bobbin to the holding means, and means for automatically attaching such new thread from such different supply to the new bare bobbin, said attaching means including thread-positioning mechanism acting to place the thread from said different supply in place to be engaged by said new bare bobbin as the latter is delivered to said holding means.

2,659,539
THREAD GUIDING DEVICE

Oswald Stenglein, Mammendorf, Upper Bavaria, Germany, assignor to Maschinenbau- & Giesserei A. G., Basel, Switzerland, a joint-stock company

Application October 8, 1952, Serial No. 313,766
Claims priority, application Germany October 11, 1951
5 Claims. (Cl. 242—43)



1. In a thread guiding device of a machine for winding cross-wind spools, a slide carrying the thread guide, said slide being guided in guides to slide to and fro parallel to the axis of the spool, a driven crank rotating about its crankshaft, a crank pin on said driven crank being guided to slide transversely of the axis of the spool in a guideway in said slide, two crank and connecting rod drives with stationary crankshafts, the said crankshaft of the driven crank being articulately connected to the connecting rod of one of the said crank and connecting rod drives, the connecting rod of the other crank and connecting rod drive being linked eccentrically to a rotating driving member, the two cranks of the said crank and connecting rod drives being coupled together by means of a coupling pin, said coupling pin being rigidly connected to one of said cranks and being guided to slide with respect to the other crank in the longitudinal direction of the arm thereof, said two cranks being so arranged and constructed that the connecting rod of the first mentioned crank and connecting rod drive imparts to the said crankshaft in the transverse guideway in the said slide accelerated motion to overcome the dead point positions at the two points of reversal of the thread guide.

2,659,540
CONDUIT REAMING MACHINE

Harry J. Sketchley, Los Angeles, Calif.

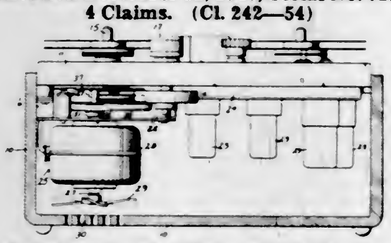
Application October 17, 1949, Serial No. 121,844
1 Claim. (Cl. 242—54)



A reversible cable pay-out and rotating mechanism comprising a carriage, a pay-out roller cage on the carriage, oppositely disposed rollers therein having complementary cable gripping grooves

and spring means between the cage and the grooves adapted to press said rollers into contact with the cable in all adjustments of the mechanism, a reversible source of power including a reversible drive shaft on the carriage, a combined clutch and differential device including a two-way clutch and differential gearing subject to operation by the drive shaft, said drive shaft having a permanent connection through the differential gearing to the pay-out rollers and an intermittent connection through the differential gearing to the cable storage reel, an automatically operable friction drag on the cable storage reel having an operative position when the intermittent connection is broken and an inoperative position when the intermittent connection is made, and an automatically reversible clutch arm for the two-way clutch responsive to the direction of rotation of the reversible drive shaft having one position wherein the two-way clutch makes said intermittent connection and another position wherein the two-way clutch breaks said intermittent connection and locks the differential gearing.

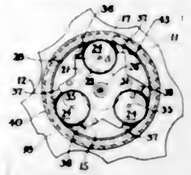
2,659,541
DRIVE MECHANISM FOR MAGNETIC RECORDERS
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois
Application December 31, 1946, Serial No. 719,383
4 Claims. (Cl. 242—54)



1. A magnetic recorder comprising an idler supply spool and a take-up spool, an elongated record member on said supply spool and extending to said take-up spool, a slipping friction clutch, means for driving said take-up spool through said friction clutch, an annular friction brake member coaxial with said supply spool for braking said supply spool at a varying braking torque, a drive roller over and partially around which said record member extends, means for driving said drive roller at substantially constant speed, means for driving said take-up spool through said friction clutch at a speed tending to take up said record member at a faster speed than said drive roller imparts to said record member, said brake being proportioned with respect to said friction clutch to produce a tensioning force on said record member substantially equal and opposite to the tension force produced by said drive means through said slipping friction clutch, whereby said drive roller alone determines the speed of travel of said record member.

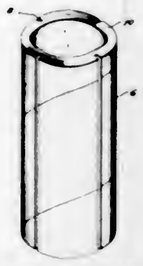
2,659,542
REWIND CORE HOLDER
Albert H. Steuber, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 5, 1951, Serial No. 224,689
10 Claims. (Cl. 242—70)

1. A reel comprising, in combination, a pair of flanges adapted to be arranged in spaced parallel relation, a core open at its ends, means on said flanges to receive and support said ends to position said core between said flanges, radially adjustable pivoted elements carried by said means,



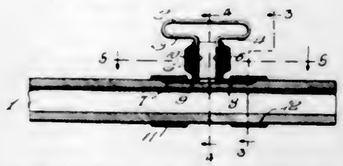
and means on said ends directly engaging said elements to adjust the latter radially by a relative rotation of the flanges and core to connect said core releasably to said first means.

2,659,543
WINDING CORE
Frank Cross Guyer, Lowell, Mass., assignor to Sonoco Products Company, a corporation of South Carolina
Application September 21, 1950, Serial No. 185,950
4 Claims. (Cl. 242—72)



1. A winding core adapted for supporting a roll of elastic material wound thereon, comprising an annular multi-ply paper body, having at least one longitudinal groove opening in the periphery thereof, said groove being of sufficient depth to make a substantial number of the outer plies of said paper body discontinuous and thereby weaken the core wall so that a compressive stress of sufficient magnitude imposed by said material wound thereon will cause the remaining inner plies of the core to buckle inwardly of said annular body at said groove and draw the edges of said groove together, thereby reducing the circumference of said core and relieving the compressive stress thereon.

2,659,544
ATTACHABLE REEL FOR FISHING RODS
Henry R. Freeman, Shreveport, La.
Application February 13, 1950, Serial No. 143,951
3 Claims. (Cl. 242—84.1)



1. A winding and unwinding member for fishing lines attachable to fishing poles comprising an integrally formed flat strip of material which is looped upon itself at each end thereof forming a looped portion and extended at the central portions thereof in spaced planes normal to the looped portion of the member, the ends of said central portions being formed into attachment legs projecting in opposite directions from said central portions, a tubular sleeve carried by the central portions of said strip forming a core around which the fishing line is wound or unwound, and means for fastening said attachment legs to a fishing pole.

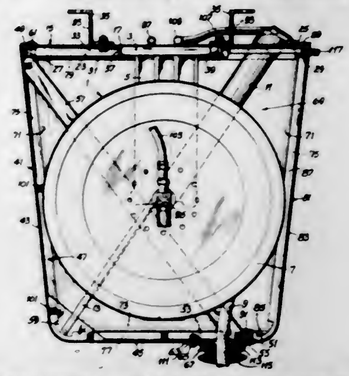
2,659,545
FISHING REEL
Richard Patrick Hoke and William Edward Brown, Shelburn, Ind., assignors to Clyde D. Shelburne, Shelburn, Ind.
Application January 11, 1950, Serial No. 138,028
6 Claims. (Cl. 242—84.6)



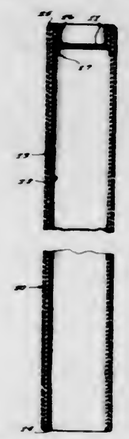
1. In combination, a fishing reel having a base, a spool, means supporting said spool from said base for rotation about its own axis, bracket means including a saddle adapted to be seated on a fishing rod, means connecting said bracket means to support said base, a pick-up finger shiftably supported in said bracket means for movement into and out of cooperative relation with the periphery of said spool, plunger means shiftably mounted in said bracket means, means providing an operative connection between said plunger means and said finger, spring means acting on said plunger means and resiliently urging the same toward one limit of its path of movement, and a finger piece, slidably supported on said bracket means, operatively connected to move said plunger means and said finger, disposed near said saddle, and movable toward said saddle to shift said plunger means against the tendency of said spring means.

2,659,546
CABINET FOR LINE-RETRIEVING REELING APPARATUS
Lutwin C. Rotter, Maplewood, and August D. Reisert, St. Louis, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application October 13, 1950, Serial No. 190,014
12 Claims. (Cl. 242—86)

6. A mounting bracket for reeling apparatus of a type having a base plate and a standard supporting a reel, comprising a web plate having side flanges with the margins of the flanges inturned to form tracks at opposite sides of the bracket spaced from the web plate, the tracks being adapted to support a reeling apparatus by its base plate as inserted endwise between the side flanges on the tracks, and a stop extending crosswise between the side flanges for limiting endwise insertion of the base plate.



2,659,547
BOBBIN
William B. Broadbent and Boyd H. Sing, Hartsville, S. C., assignors to Sonoco Products Company, a corporation of South Carolina
Application April 21, 1948, Serial No. 22,485
12 Claims. (Cl. 242—119)



1. A bobbin adapted as a supporting core for yarn packages comprising a seamless metal barrel member invested with a seamless covering member of plastic over its entire exterior surface, one of said members extending beyond and being turned over the other at at least one end of said bobbin and thereby providing for interlocking said members.

2,659,548
FLY TIER'S BOBBIN
Ridgway P. Morgester, Ridgway, Pa.
Application August 8, 1952, Serial No. 303,329
3 Claims. (Cl. 242—140)

1. A fly tier's bobbin comprising: a relatively elongated, U-shaped spool housing having springable fork arms converging toward and integrally connected at one end by a bight, said arms being adapted at their other ends to engage frictionally between them the opposite ends of a spool of

thread, to support the spool for rotation in the housing; a thread tube extending through said bight and through which said thread is extendible; and cam means circumposed about the tube and shiftable longitudinally of the housing along



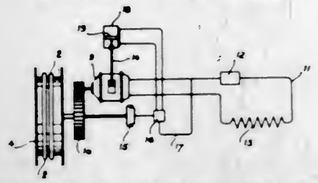
the convergent arms to draw the arms against the ends of the spool, thereby to effect adjustments as to the degree of frictional engagement of the arms with the spool, for controlling the freedom of rotation of the spool.

2,659,549

CABLE-FEED MECHANISM FOR CABLE SHIPS

Marc Galin, Le Canet-Marseille, France, assignor to Etablissements Paul Duclos, Le Canet-Marseille, France, a corporation of France

Application July 1, 1950, Serial No. 171,677
Claims priority, application France August 23, 1949
3 Claims. (Cl. 242—155)



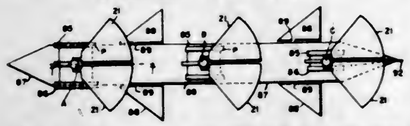
1. Apparatus for regulating the tension in a cable to maintain said tension substantially constant, comprising a drum about which the cable is wound, a variable delivery pump connected to said drum to be driven thereby, means for regulating the discharge pressure of said pump at a substantially constant value, a closed liquid circuit including said pump, a cooling coil in said circuit for dissipating heat from the liquid therein, an accelerometer driven by said pump, and means operated by the accelerometer for decreasing the delivery of the pump in response to acceleration of the drum and increasing the pump delivery in response to deceleration of the drum.

2,659,550

CONVERTIBLE ROTARY WING AIRCRAFT

Adolphe C. Peterson, Edina, Minn.

Application June 12, 1950, Serial No. 167,608
8 Claims. (Cl. 244—7)



1. In an air-craft, a supporting structure fixed on the air-craft, a rotor unit mounted on a substantially vertical axis on the supporting structure and comprising a hub structure having rotatable bearing on the supporting structure and a pair of air foil blades each having a mounting at its root end on the hub structure to be rotatable with the hub structure as a unit; each mounting of an air foil blade on the hub structure including a pivot in the mounting on which the blade is oscillatable on a substantially vertical axis, in a plane transversely of the axis of rotation of the rotor unit on the supporting structure, to a position in that plane such that the air foil blades so positioned are substantially equally and widely separated radially in the circle about the axis of rotation and alternatively to a position in that circle trailing from the said axis of rotation such that the air foil blades so positioned are closely adjacent each other trailing from the axis of rotation; each mounting of an air foil blade on the hub structure including also a pivot on which the air foil blade is oscillatable on a horizontal axis radially of the hub structure to positions of incidence in the widely separated positions such that each air foil blade provides upward lift when the rotor unit is rotated on the axis of rotation and alternatively to positions such that when the air foil blades are in the trailing positions closely adjacent each other each air foil blade has then that angle of incidence to provide upward lift on the air-craft when the rotor unit is relatively static.

2,659,551

CONTROL SYSTEM FOR TANDEM ROTOR HELICOPTERS

Harris S. Campbell, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application July 30, 1946, Serial No. 687,115
15 Claims. (Cl. 244—17.23)



1. An aircraft comprising a body, a bladed sustaining rotor mounted toward the front of the aircraft, a bladed sustaining rotor mounted toward the rear of the aircraft, and a control system incorporating flight control means for controlling the longitudinal attitude of the aircraft comprising mechanism for relatively varying the mean blade pitch of the two rotors, means for controlling ascent and descent of the aircraft comprising mechanism for concurrently raising and lowering the mean pitch of both rotors, and means for trimming the longitudinal attitude of the aircraft comprising a second mechanism for relatively varying the mean blade pitch of the two rotors.

3. An aircraft comprising a body and a pair of sustaining rotors each incorporating blade means mounted for flapping movement, the two rotors being arranged in tandem, with one rotor

mounted at an elevation above that of the other, and with the horizontal spacing of the rotors such that, when viewed in plan, the paths swept by the blades of the two rotors overlap, the vertical spacing of said rotors being such that a portion of the blade tip path of the lower rotor at high angles of flapping is above the lowest blade tip path of the upper rotor at low angles of flapping and the horizontal spacing of the centers of the rotors being such that the blades of the two rotors clear each other in the region of overlapping at any angle of flapping of either rotor.

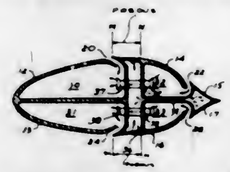
11. An aircraft comprising a body, a sustaining rotor mounted on the body well forward of the center of gravity of the aircraft and having at least one blade mounted for angular oscillation in a direction transverse the rotational path, a second sustaining rotor mounted on the body well to the rear of the center of gravity of the aircraft and having at least one blade mounted for angular oscillation in a direction transverse the rotational path, mechanism for laterally tilting the blade tip path of the forward rotor, mechanism for laterally tilting the blade tip path of the rear rotor, a flight control system for said aircraft providing for control of at least one of said mechanisms independently of the other and comprising two separately operable pilot-control elements, the first of said control elements constituting the roll control organ for the aircraft and the second of said control elements constituting the yaw control organ for the aircraft, coupling means connecting the roll control element with the mechanism for laterally tilting the blade tip path of the front rotor, and coupling means connecting the yaw control element with the mechanism for laterally tilting the blade tip path of the rear rotor, at least one of said mechanisms for laterally tilting the blade tip paths of the rotors being connected to and actuable by one only of said two control elements to thereby provide for tilting of the blade tip path of one rotor with respect to the aircraft independently of the angle of tilt of the other rotor with respect to the aircraft.

2,659,552

AIRCRAFT SURFACE WITH BOUNDARY LAYER CONTROL

Edward A. Stalker, Bay City, Mich.

Application June 9, 1950, Serial No. 167,143
10 Claims. (Cl. 244—40)



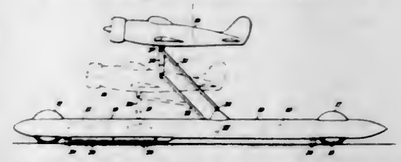
1. In combination in a wing, a fore surface, a rear surface, means supporting said surfaces in chordwise spaced relation to define an induction slot between said surfaces in the upper side of said wing, said rear surface including a porous nonconvex surface portion extensive chordwise from said slot along a minor fraction of the chordwise extent of said rear surface succeeded by a chordwise convex nonporous surface portion, and compartment means providing at least two separate sources of different pressures in communication respectively with said slot and said porous surface to induce flows of fluid inward through said slot and said porous surface with a greater internal suction at said porous surface than at said slot.

2,659,553

MEANS FOR LAUNCHING AIRPLANES AND OTHER FLYING BODIES

Barnes Neville Wallis, Weybridge, England, assignor to Vickers-Armstrongs Limited, London, England, a British company

Application December 12, 1950, Serial No. 200,227
5 Claims. (Cl. 244—63)



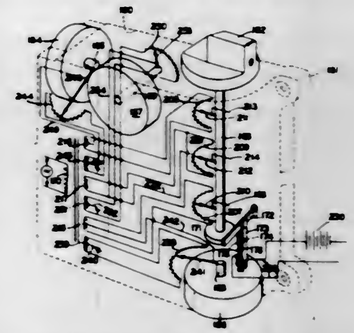
1. Aeroplane-launching apparatus, comprising a carriage adapted to be propelled along the take-off runway, a mounting on said carriage for supporting an aeroplane with freedom to assume an attitude of flight, latching means securing the aeroplane on said mounting until after the lifting force developed on the aeroplane wings by the airstream due to the movement of the carriage exceeds the take-off weight of the aeroplane by a predetermined margin but operable thereafter automatically to effect release of the aeroplane, and means acting on the latching means to delay such automatic release until said excess lift has been maintained continuously for substantially a predetermined period.

2,659,554

AUTOMATIC STEERING SYSTEM

Norman B. Murphy, West Englewood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application February 1, 1946, Serial No. 644,799
6 Claims. (Cl. 244—77)



1. A turn control unit for the automatic pilot of an aircraft, said automatic pilot having means for maintaining the craft on a predetermined course, means for maintaining the craft in a predetermined bank condition, and means for maintaining the craft in a predetermined pitch attitude, said means for maintaining the craft on a predetermined course including a course change responsive means having a displaceable signal generator, actuating means operatively connected with the latter for displacing said generator to a non-signal generating position, and control means operatively connected with said actuating means which when operated in one manner make the actuating means effective on said generator to displace the latter whereby no signal is available from the course change responsive means for maintaining said craft on a predetermined course and which when operated in another manner

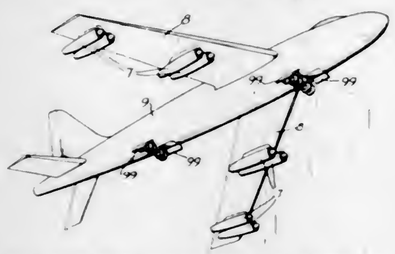
make the actuating means ineffective on said generator whereby the signal of the latter operates said course maintaining means to maintain said craft on the predetermined course, said turn control unit comprising displaceable turn, bank and pitch signal generators for controlling said course maintaining means, bank condition maintaining means, and pitch attitude maintaining means, a common member supporting said turn, bank, and pitch signal generators for displacement, a manually operable member operatively connected with said common member for displacing said common member from a reference position to bank and turn the craft, and means operatively connecting said common member with said control means and operative in response to movement of said manually operable member for making the actuating means effective on said first mentioned signal generator.

2,659,555

AIRCRAFT WITH QUADRICYCLE LANDING GEAR

William H. Schlender, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware

Application July 27, 1951, Serial No. 238,876
8 Claims. (Cl. 244—102)



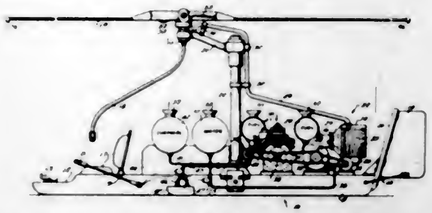
1. An airplane comprising a fuselage, four transverse pivot supports carried by and located within the fuselage, arranged in a fore pair and a rear pair, the pivot supports of each pair defining pivot axes which are inclined upwardly and outwardly at the respectively opposite sides of the longitudinal vertical central plane of the fuselage, said fuselage being recessed forwardly of one pivot axis of each pair and rearwardly of the other pivot axis of the same pair, for the reception, when retracted, of the respective landing units of such pair; four like landing units, each comprising a shock strut which is generally upright when extended in landing position, and the upper end of which is pivotally mounted upon its corresponding inclined pivot support, a ground-contacting element at the lower end of each shock strut, retracting mechanism mounted within and reacting from the fuselage, and operatively connected to each landing unit to swing each thereof, with its ground-contacting element, upwardly and inwardly of the fuselage about its inclined pivot axis, and respectively forwardly or rearwardly, as the case may be, into its recess in the fuselage, from its outspread and upright landing position to its retracted position, the location of the respective pivot supports and the inclination of their pivot axes being so related to the fuselage shape and the shape of the landing units as to move the two ground-contacting elements of each pair into the vicinity of such longitudinal vertical central plane within the fuselage when retracted, and to spread them widely enough when extended to afford, per se, lateral stability to the airplane when ground-borne.

2,659,556

METHOD OF DISTRIBUTING INSECTICIDES OR FUNGICIDES AND STEAM JET-DRIVEN HELICOPTER FOR PERFORMING SAME

Friedrich L. U. Doblhoff, St. Louis, Mo.

Application August 16, 1950, Serial No. 179,842
7 Claims. (Cl. 244—136)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A helicopter vehicle for the aerial distribution of chemicals comprising a water tank, a pump receiving water from said tank, a boiler receiving water from said pump, a burner for supplying heat to said boiler, a steam line attached to the outlet of said boiler, a plurality of helicopter blades rotatably mounted on said vehicle, each blade having one or more steam reaction nozzles mounted on said rotor blades receiving steam from said steam line for rotating the same and to discharge steam condensate or water vapor in a circular area below the blade during rotation thereof, a container for chemicals and means for the distribtuion of said chemicals in the aforesaid moisture laden area below said blades.

7. The method of aerial distribution of insecticides and the like for treatment of material in an area below, which comprises discharging water vapor under pressure in a circular path in a downward direction over and toward the area to be treated from a position above the area to be treated and simultaneously injecting the insecticide into water vapor within said circular path, above the said area to be treated and below the point of discharge of the water vapor, whereby the downwardly directed water vapor moistens the treated area, acts as a conveying medium carrying the insecticide downwardly and distributing the same for deposit over the area to be treated and moistens said area to be treated to assist in retaining the insecticide in contact with said material in treated area.

2,659,557

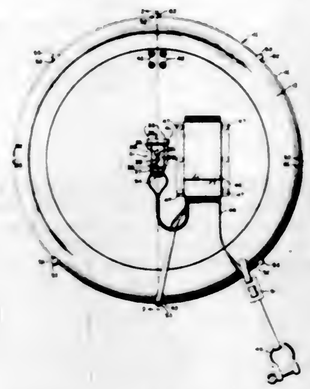
PARACHUTE PACK LATCH MECHANISM

Gordon L. Fogal and Albert M. Mitnick, Silver Spring, Md., assignors to the United States of America as represented by the Secretary of the Navy

Application September 27, 1951, Serial No. 248,627
7 Claims. (Cl. 244—148)
(Granted under Title 35, U. S. Code (1952), sec. 266)

4. In a latch apparatus for a covered parachute pack comprising, in combination, a pair of members hinged together and adapted to be in face adjacency when in latching position, a finger portion formed on the free end of each of said hinged members, said finger portions being bent in a direction toward each other and interfitting to releasably secure a static line to said latch, one of said pair of members having an elongated slot formed intermediate the ends thereof, the other one of said pair of members having a keyhole slot formed therein and normally overlying said elongated slot, headed pin

means fixed to said pack and mounted interiorly and axially therein, means for fastening said one of said pair of members to the cover of said pack for limited sliding movement, said pin means extending through the elongated slot and the keyhole slot of said pair of members whereby sliding movement of the members in one direction locks the cover and the static line to the pack and movement in the opposite direction unlocks the cover and static line therefrom.

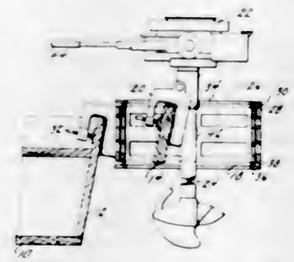


2,659,558

OUTBOARD ENGINE MOUNTING DEVICE

James E. Gillespie, Toledo, Ohio

Application December 17, 1949, Serial No. 133,650
1 Claim. (Cl. 248—4)



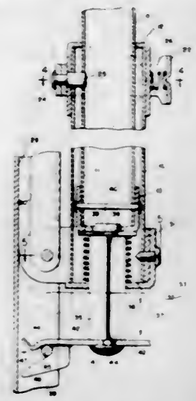
An outboard engine mounting comprising a first cylindrical ring providing upper and lower tracks at its opposite ends and an intermediate track about the interior thereof, means for mounting said ring in a substantially horizontal plane and in a substantially vertical position relatively to the exterior of a craft, a turret providing a second ring coaxially disposed within said first ring and radially spaced therefrom, said second ring having outwardly projecting flange elements overhanging the end tracks of said first ring, seats in said second ring and in its flanges, bearing carrying elements mounted in said seats, bearings carried by such elements engaging the first ring provided tracks, and a bar carried substantially vertically by the turret extending thereacross on an off-center chord positioned to provide working space between the turret and each side of the bar, said bar being adapted to carry and provide access to clamp mounting portions of an engine.

2,659,559

PICTURE SCREEN STAND

Leo J. Du Mais, Chicago, Ill., assignor to Da-Lite Screen Company, Inc., Chicago, Ill., a corporation of Illinois

Application June 19, 1951, Serial No. 232,407
6 Claims. (Cl. 248—171)



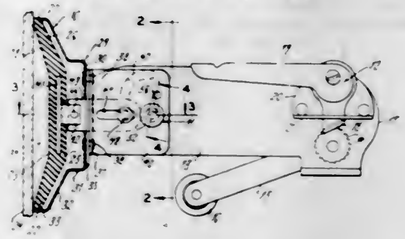
6. A screen stand, comprising a standard, a set of legs mounted on said standard to swing between a spread apart position for supporting said standard and a retracted position along said standard, yielding leg latch means adapted to coact to releasably hold said legs in such retracted position, cam means on said standard and engageable with said legs and movable to force said legs apart, a spring normally urging movement of said cam means to force said legs apart, and other latch means on said standard interconnected with said cam means and adapted to releasably hold said spring and cam means retracted.

2,659,560

SUCTION MOUNTING FOR CAN OPENERS OR THE LIKE

George A. Lehmann, St. Louis, and William E. Gundelfinger, St. Louis County, Mo.

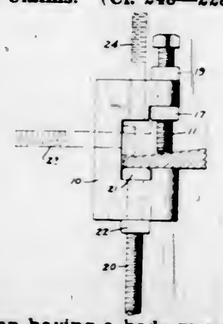
Application September 13, 1951, Serial No. 246,484
5 Claims. (Cl. 248—206)



1. In a suction type fastener adapted for use with a can opener assembly, an elastic diaphragm, a compression member positioning the diaphragm, a reciprocably movable arm connected to the diaphragm, a flange plate located adjacent the compression member, a can opener body located adjacent the flange plate, means pivotally connecting the can opener body and flange plate, and a stud connected to the arm, the can opener body and flange plate being provided with slotted means which slidably coact with the stud to actuate the reciprocable arm, a locking means con-

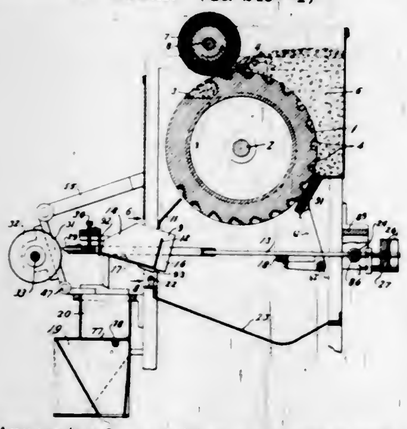
sisting of a hook element, a lock nut received by the hook element, and a spring located about and tending to urge the hook element into locking engagement with the can opener body and flange plate.

2,659,561
C CLAMP
Orlan C. Kindorf, San Francisco, Calif.
Application October 9, 1950, Serial No. 189,152
2 Claims. (Cl. 248—228)



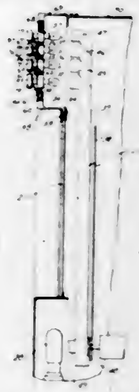
2. A C-clamp having a body member comprising two plates spaced in substantially parallel planes, said plates having registering notches entering through one edge, integral connecting parts between the same edges of the plates at opposite sides of said notches, a clamping screw disposed between the plates adjacent and parallel to said connecting part and adapted to project into the space between said openings, from one side thereof, a nut threaded on the clamping screw adjacent said side of the openings to enable the clamping screw to be advanced in the direction of the opposite sides of the openings, and a hanger bolt with a head wider than the space between said plates disposed within said openings and having a threaded shank extending outwardly between said plates.

2,659,562
METHOD AND APPARATUS FOR DEPOSITING A WEIGHED FILL IN A RECEPTACLE
Donald E. Cloud and William S. Cloud, Wilmette, Ill.; said Donald E. Cloud assignor to said William S. Cloud
Application January 31, 1950, Serial No. 141,522
11 Claims. (Cl. 249—1)



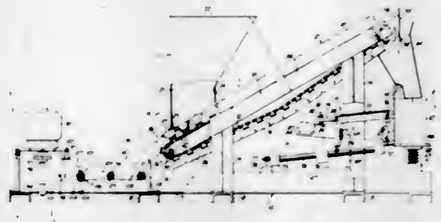
1. Apparatus for weighing out a predetermined weight of material including a scale having a pan, means for biasing the pan to a predetermined weighing position, means for delivering material to said pan with small increments as the predetermined weight is approached, said apparatus also including a deflector having a deflecting position for diverting the delivery of material to exclude it from the pan, trip means constantly moving but normally ineffective and rendered effective upon initial movement of the pan to trip said deflector to said deflecting position, said pan being free to make said initial movement without performing any work other than overcoming said biasing means.

2,659,563
AUTOMATIC DISPENSING MECHANISM
Walter E. Saxe, San Gabriel, Calif., assignor to The Conveyor Company, Inc., Los Angeles, Calif., a corporation of California
Application March 22, 1948, Serial No. 16,251
22 Claims. (Cl. 249—14)



1. In an apparatus of the character described, the combination of: a plurality of sources of material; means associated with each of said material sources for dispensing material therefrom; a receiver for the material dispensed by said dispensing means; an electrical circuit associated with each of said dispensing means; a device in each of said circuits for actuating the dispensing means associated therewith; a normally open switch in each of said circuits; means for closing and subsequently opening said switches in sequence so as to energize and subsequently deenergize said actuating devices in sequence, whereby said dispensing means dispense quantities of material from said material sources in sequence; means for rendering said switch-closing means inoperative upon closure of each of said switches; a plurality of concentric annular members corresponding in number to the number of dispensing means, said annular members being relatively rotatable about a common axis and being of progressively increasing diameters; a light source on each of said annular members, said light sources being adapted to be spaced apart along a circular path by relative rotation of said annular members; photoelectric means; means movable along said path for causing light from said light sources to fall upon said photoelectric means in sequence; means responsive to the quantity of material in said receiver for moving said last-named means along said path at rates proportional to the rates at which material is dispensed by the respective dispensing means; and means controlled by said photoelectric means for rendering said switch-closing means operative whenever light from one of said light sources falls upon said photoelectric means so that the dispensing means associated therewith delivers a predetermined quantity of material into said receiver.

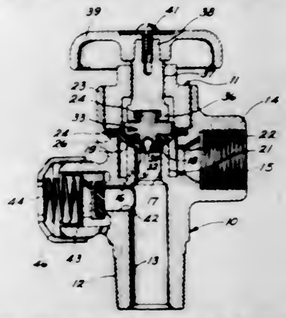
2,659,564
NUT WEIGHING AND BAGGING APPARATUS
Harry L. Gibson, Los Angeles, Calif., assignor to Desda E. Ahlburg, Los Angeles, Calif.
Application August 15, 1949, Serial No. 110,429
1 Claim. (Cl. 249—58)



In a weighing machine, a flexible endless conveyor having means thereon defining a plurality of individual article receiving cups, said cups being arranged in rows generally transversely of said conveyor with the rearmost cup of each row positioned in advance of the foremost cup of the next succeeding row, each of said cups being separately attached to said conveyor at a position longitudinally spaced from every other cup, means arranged to deposit an article in each cup of an upper run of said conveyor, means for selectively driving said conveyor at different speeds, means guiding said conveyor around an idler shaft at a relatively short radius, the longitudinal spacing of said cups and the magnitude of said radius being so related that said cups are individually and sequentially tilted to dumping position whereby to deliver individual articles as said conveyor moves around said idler shaft, a weighing mechanism having a receiver positioned for receiving articles dumped from said cups, means actuated by said weighing mechanism to control said driving means to effect driving said conveyor at a high speed until a first predetermined weight of articles is deposited in said receiver, to then effect driving said conveyor at a low speed to successively and intermittently deposit individual articles in said receiver, and to then stop said conveyor after a final predetermined weight of articles is in said receiver.

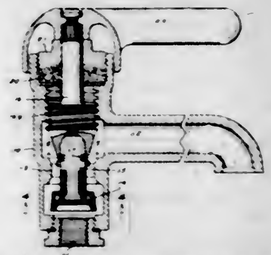
2,659,565
CYLINDER VALVE
Andrew G. Johnson, Lakewood, and Theodore A. St. Clair, South Euclid, Ohio, assignors to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application October 5, 1950, Serial No. 188,539
1 Claim. (Cl. 251—24)

A valve comprising a body, an inlet port, an outlet port, and an annular valve seat between said ports, one of said ports opening into the center of said valve seat, a counterbore axially and radially within said seat forming an annular shoulder around said one of said ports, a second counterbore surrounding said seat, a diaphragm base around said second counterbore, a valve member mounted in said body for motion toward and away from said seat, a diaphragm-like valve disc of rubber-like material, an annular nut in said body clamping said disc against said diaphragm base, means mounting said disc on said valve member including an annular flange member of relatively hard material, said flange member having an external diameter slightly less than the diameter of said first named counterbore and greater than the diameter of said one



of said ports, means securing said flange member to said valve member against movement in either direction, said disc being movable by said valve member and into engagement with said shoulder, flange member being movable with said valve member into engagement with said seat, said said last-named engagement taking place after said valve seat has deformed said rubber-like disc member and made a sealing engagement therewith.

2,659,566
INTEGRAL VALVE AND STEM WITH REINFORCING FLANGE
Henry J. Rand, Bratenahl, Ohio, assignor to Magic Seal, Inc., Bratenahl, Ohio, a corporation of Ohio
Application January 15, 1949, Serial No. 71,094
1 Claim. (Cl. 251—27)



A valve for cooperation with a substantially cylindical valve bore of predetermined diameter and comprising a stem, a resilient sealing plug secured to said stem, said plug being of generally frusto-conical form having its base of smaller diameter downstream and of slightly less diameter than said bore and having an upstream base of slightly larger diameter than said bore, the portion of the plug which is of the same diameter as the bore being nearer said base of smaller diameter, the side walls of said plug diverging outwardly upstream from said base of smaller diameter at an angle between five and ten degrees, said stem having an integral flange wholly embedded in said plug nearer said base of smaller diameter, said flange extending over substantially the entire area of said base of smaller diameter, said flange having a diameter less than the diameter of said bore, there being sufficient resilient

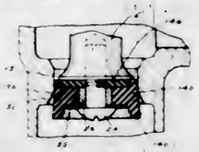
material of said plug radially outside of said flange to cushion and seal said plug in the upstream end of said bore, and said plug being radially compressible to the diameter of said bore, whereby said plug will pass wholly into said bore, and whereby said plug will pass partially into said bore with an initial line contact between said plug and bore at which time said flange prevents chattering and singing of said plug as it moves into sealing engagement with said bore.

2,659,567

VALVE WITH YIELDABLE FACE

Henry J. Rand, Bratenahl, Ohio, assignor to Magic Seal, Inc., Bratenahl, Ohio, a corporation of Ohio

Application February 12, 1949, Serial No. 76,071
4 Claims. (Cl. 251—27)



1. In a valve of the type wherein a housing is provided having a fluid inlet and a fluid outlet and having a cylindrical bore intermediate said inlet and outlet and communicating with both of them, and wherein a resilient sealing plug of frusto-conical form is adapted to pass through said bore and is movable into and out of the upstream end of said passage to seal said bore, said plug having a smaller diameter base downstream and of less diameter than the diameter of the bore and having its base of larger diameter not substantially greater than the diameter of said bore, the combination therewith of a sealing plug having a backing disc of hard rubber-like material and an outer cushion of soft rubber-like material bonded to said disc, said disc extending substantially to the periphery of said smaller diameter base and providing sufficient rigidity there to prevent said valve from chattering as said plug is moved into and out of the upstream end of said bore, and said outer cushion of soft rubber-like material radially outside of said disc engaging the walls of said bore to seal the same with an initial line contact, there being sufficient of said outer cushion of soft rubber-like material, radially outside of said disc, to permit said plug to pass through said bore.

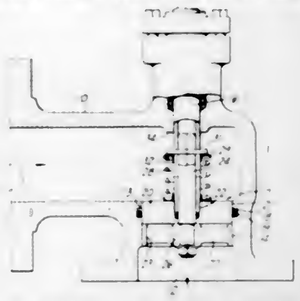
2,659,568

VALVE CONSTRUCTION

Marvin H. Grove, Piedmont, and Austin U. Bryant, Berkeley, Calif., assignors, by mesne assignments, to Grove Regulator Company, Oakland, Calif., a corporation of California

Original application May 15, 1948, Serial No. 27,308. Divided and this application October 9, 1951, Serial No. 250,419
3 Claims. (Cl. 251—27)

1. In a fluid control valve, a valve body having flow passages, an annular seat member formed within the body and providing a cylindrical throat orifice serving to connect the inflow and outflow passages, a valve stem slidably extended into the body in axial alignment with the axis of the throat orifice, an annular groove serving to interrupt the inner peripheral surface of the throat orifice, a resilient seal ring loosely disposed within said groove, and a valve assembly carried by the inner end of said stem and adapted to be moved between full open and closed positions with respect to the seat member, said valve assembly including a member having a cylindrical outer periphery and adapted to fit within the throat orifice for full closed position of the valve assembly and to be retracted from the throat orifice in spaced relation to the seat member for full open position of the valve assembly, a guard member having an outer cylindrical periphery of the same diameter as the cylindrical periphery of said valve member, said guard member being ported for flow of fluid therethrough, a rod slidably extended through said valve member, the guard member being attached to one end of said rod and being disposed



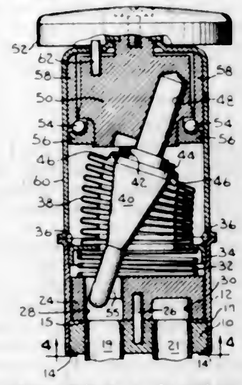
adjacent that side of the valve member remote from the valve stem, spring means disposed to act between the valve member and the rod to normally urge the guard member against said last mentioned side of the valve member, whereby the outer cylindrical peripheries of the valve and guard members are contiguous, and means for arresting movement of the guard member whereby when the valve assembly is moved to full open position, following movement of the guard member with respect to the valve member is arrested to retain the guard member within the throat orifice and in a position to retain the seal ring within said groove, and means for maintaining a fluid tight seal between said valve member and said rod.

2,659,569

SEALED VALVE

Edward C. Ehlke, Milwaukee, Wis., assignor to A. P. Controls Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application April 27, 1951, Serial No. 223,343
1 Claim. (Cl. 251—87)



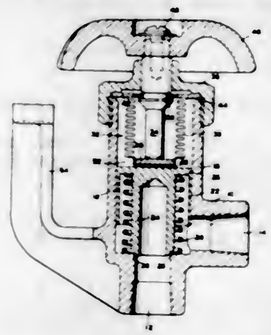
A valve comprising a housing including a header having a plurality of conduits therethrough, a rotary member rotatably mounted in the housing and provided with a port cooperable with the conduits to selectively interconnect the conduits as the member is rotated, a manually operable member rotatably mounted in the housing, both of said members being rotatable about substantially the same axis, a straight stem interconnecting said members to transmit rotational movement to said rotary member, said manually operable member being provided with a socket receiving one end of said stem and angularly disposed so as to cause the axis of said stem to substantially intersect the rotational axis of said members, the other end of said stem being received in a generally radial slot in the rotary member to compensate for deviations in the angle of said socket, a bellows fixed and sealed to said housing and to said stem to prevent leakage from the valve, said slot providing communication between said port and the interior of said bellows so the fluid pressure at the port acts on said rotary member to decrease the pressure differential across the rotary member tending to move the rotary member from the header.

2,659,570

VALVE

William A. Werker, Palisades Park, N. J., and Joseph Steenfeld, New York, N. Y., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application November 17, 1949, Serial No. 141,446
1 Claim. (Cl. 251—141)



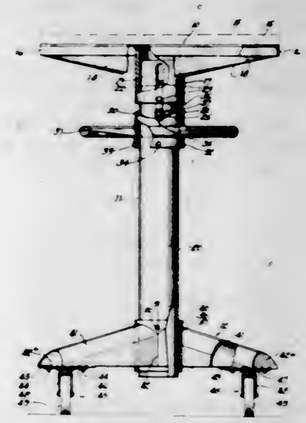
A glandless valve for controlling the flow of high pressure fluids comprising a valve body having an open end chamber formed therein, an externally threaded portion terminating in a knife-like edge adjacent the open end of said chamber, inlet means including a valve seat in axial alignment with said chamber and outlet means communicating with said chamber adjacent said inlet means, said outlet means in communication with said chamber; closure means for the open end of said chamber comprising a mounting plate adapted to engage the knife-like edge of said body and having a central aperture, a bellows sealingly secured at one end to said mounting plate about the aperture therein and having a re-enforced wall closing the opposite end thereof, said bellows being positioned within said chamber, and a cap having internal threads for engagement with the externally threaded portion of said body whereby said mounting plate is sealingly clamped between said cap and the knife-like edge of said body; a piston valve comprising a flat body having a rigid skirt whereby said piston valve is slidably mounted in said chamber, and a centrally disposed hollow valve member coaxial with said skirt, said valve member having an open end in axial alignment with and communicating with said inlet means and a surface formed on the open end thereof for engagement with the valve seat of said inlet means; a spring encircling said hollow stem and operative between the end wall of said chamber and the flat body to bias said piston valve in a direction away from said valve seat and into engagement with the re-enforced wall of said bellows; and valve actuating means comprising a valve stem threadedly mounted in said cap, said valve stem having a portion thereof extending through the aperture in said mounting plate into the interior of said bellows and engaging the re-enforced wall of said bellows, and means mounted on said valve stem exteriorly of said body for rotating said valve stem to expand said bellows and thereby adjust said piston valve relative to said valve seat against the bias of said spring.

2,659,571

PRINTER'S CENTRAL POST FORM TABLE

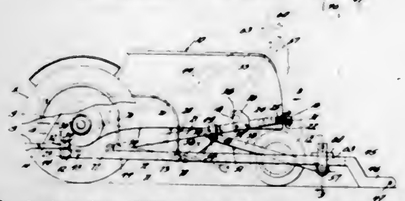
John Lee Ferguson, Jr., Joliet, Ill., assignor to Printing Equipment Corporation, Joliet, Ill., a corporation of Illinois

Application April 29, 1949, Serial No. 90,397
10 Claims. (Cl. 254—5)



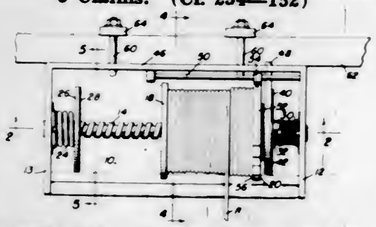
1. A form table of the class described comprising a rectangular platen top having a smoothly finished flat upper surface on which a form for a page of news print may be made up or received, a strong central columnar support for the platen secured at its upper end in vertically adjustable relation thereto, a supporting base member having a sleeve through which the lower end of said central support passes, means for adjustably fixing said support in said sleeve at various heights to vary the basic height of the platen top, said base member having divergent supporting legs extending horizontally in fixed relation to points substantially beneath but within the vertical limits of the platen corners, and casters substantially at the ends of said legs to enable the table to be bodily moved about on a floor, said casters elevating the base member sufficiently to provide room above the floor for adjusting the said column in the member with its end projecting substantially below the member, the spaces beneath the overhanging edges of the platen between the corners being free of mechanical obstructions from the table.

2,659,572
TRACTOR LIFTING APPARATUS
Leonard H. Steer, Allison, Iowa
Application April 22, 1952, Serial No. 283,677
11 Claims. (Cl. 254—124)



10. A tractor lifting apparatus comprising a frame, lifting beams pivotally mounted on said frame adjacent the rear thereof, hydraulic cylinder and piston mechanisms connected to said lifting beams, bell cranks pivotally mounted on said frame, one arm of each bell crank being connected to one of said lifting beams, and the other arm of each bell crank being connected to one of said hydraulic mechanisms, the points of connection of said hydraulic mechanisms with said beams being disposed rearwardly of and above the points of connection of said hydraulic mechanisms with said bell crank arms whereby said hydraulic mechanisms exert an upward component of force on said beams to assist in lifting them.

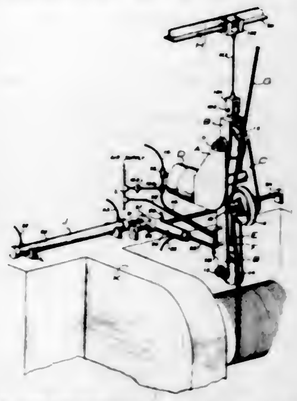
2,659,573
SAFETY BELT CABLE TAKE-UP AND SHOCK ABSORBER
Joel D. Smith, Sr., Alice, Tex.
Application January 26, 1951, Serial No. 207,911
3 Claims. (Cl. 254—152)



1. A cable take-up and shock absorber comprising a housing, a threaded rod fixed within said housing, a cable drum including end walls having central threaded openings receivably engaging the rod, a coiled spring having an outer end slidably secured to the housing and an inner end secured to the drum, said housing having a slot therein paralleling the rod and receiving the outer end of the spring, a spring mounted buffer supported in the housing at one end of the rod for engagement by the drum, one end wall of said drum having a series of circumferentially spaced notches therein, and a locking dog having a hinged section slidably mounted in the housing and movable into and out of engagement with a selected notch in the said one end wall to prevent rotation of the drum on the rod.

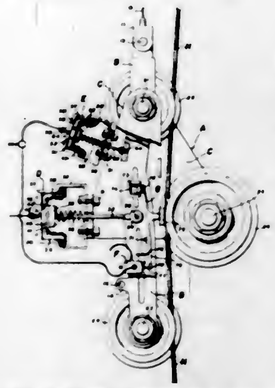
2,659,574
LIVE LOAD WEIGHT INDICATOR ASSEMBLY
Robert R. Crookston, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application April 9, 1952, Serial No. 281,429
4 Claims. (Cl. 254—173)

1. A clamp for a live line weight indicator comprising a first and second part pivoted together, first and second guide means on the first part, and a third guide means on the second part said guide means cooperating to engage with a wire line and bend it in a bight, a fluid operated power means mechanically connected with said first and second parts for forcing said guide means in contact with said wire line to bend said



bight into a predetermined angle, a valve mounted on said assembly in fluid communication with said fluid operated power means, a contact member mechanically connected to the valve element of said valve whereby changes in the angle of the bight of said wire line change the position of said valve element in said valve.

2,659,575
LIVE LINE LOAD WEIGHT INDICATOR ASSEMBLY
Arthur L. Seljos, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application October 20, 1952, Serial No. 315,766
4 Claims. (Cl. 254—173)



1. A clamp for a live line weight indicator comprising a first and second part pivoted together, first and second guide means on the first part and a third guide means on the second part, said guide means cooperating to engage with the wire line and bend it into a bight, a first fluid operated power means which exerts a bias when fluid pressure is imposed upon a pressure subject area thereof operatively connecting said first and second parts, a second fluid operated power means which exerts a bias in response to fluid pressure

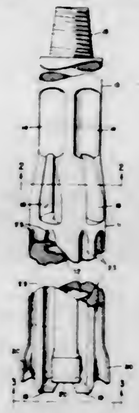
imposed upon a pressure subject area, said second power means being similar to said first power means but having its said pressure subject area a multiple of said pressure subject area of said first power means operatively connecting said first and second parts, said first and second power means being arranged to force said guide means into contact with said wire line to bend said bight into a predetermined angle, a valve mounted in said assembly in fluid communication with said first power means and a contact member mechanically connected to the valve whereby a change in the angle of the bight of said wire line changes the setting of said valve.

2,659,576
COMBINATION JAR AND EQUALIZER
Douglas Marshall Linney, Farmington, N. Mex., assignor to Bowen Co. of Texas, Inc., Houston, Tex., a corporation of Texas
Application December 19, 1950, Serial No. 201,668
4 Claims. (Cl. 255—27)



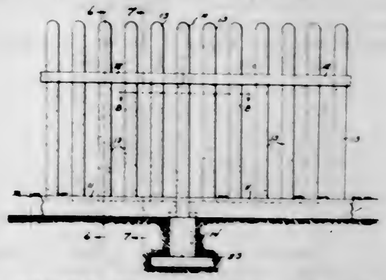
1. A well tool comprising inner and outer telescopically arranged tubular parts, means for connecting one of said parts to an upper section of an operating string, means connecting the other of said parts to a lower section of said string, an annular fluid chamber formed between the inner tubular part and the outer tubular part, a piston on the inner tubular part, sealing means at the ends of said chamber, said outer part being in communication with said string beyond said chamber, said chamber having a restricted internal diameter intermediate its ends forming a cylinder coacting with said piston to permit of the latter moving in said cylinder in either direction upon relative longitudinal movement of said inner and outer parts, said cylinder and piston coacting to permit of fluid flow from one side of said piston to the other side thereof as the piston moves in the cylinder, coacting impact faces on the inner and outer parts arranged to contact when the parts reach the limit of their movement relative to each other in either direction, said outer part having an opening in communication with the inside and outside of the outer part beyond said chamber, and said inner part being cooperable with said outer part upon relative longitudinal movement of the parts to establish and cut off communication between the inside and outside of the string through said opening.

2,659,577
ROCK DRILL BIT
George R. Watson, Waukegan, Ill.
Application October 23, 1950, Serial No. 191,613
14 Claims. (Cl. 255—63)



1. In a percussion bit, the combination of: an elongated body, having a central longitudinal cavity polygonal in cross-section and narrowing gradually toward its upper end and not extending through the upper end of the body and terminating in a central opening at the lower working end of the bit; a plurality of spirally disposed longitudinally elongated discharge ports, extending outwardly from the cavity completely through the wall of the body adjacent the upper end of the cavity, said discharge ports tapering from a narrow width at their inner ends to a wider width at their outer ends; and a plurality of alternating chipping cutters and reaming cutters, surrounding the central opening, and projecting downwardly from the working end of the bit, the reaming cutters extending outwardly beyond the chipping cutters and having their cutting edge curved in a circular arc about the longitudinal axis of the bit as a center, and the chipping cutters extending further downwardly than the reaming cutters.

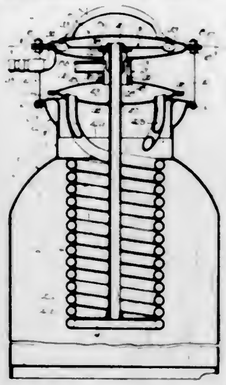
2,659,578
PERMANENT PICKET FENCE
Burl Clendenin, Seth, W. Va.
Application October 6, 1952, Serial No. 313,317
4 Claims. (Cl. 256—19)



1. A concrete fence comprising a post having an enlarged lower end providing a footing and having shoulders with keys thereon positioned on the upper end of the footing and at each side of the post, said post also having shoulders spaced from the upper end thereof, a lower rail having a continuous longitudinally disposed slot

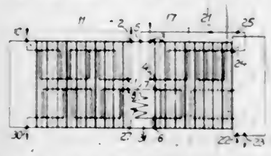
in the upper surface and recesses in the ends and positioned in the lower surface, said recesses adapted to receive the keys at the sides of the posts, spaced pickets positioned in said slots of the lower rails and extended upwardly therefrom, and an upper rail having spaced openings therein resting upon the shoulders spaced from the upper ends of the pickets with the pickets extended through the openings therein and also resting upon the shoulders spaced from the upper ends of the posts.

2,659,579
MILK COOLER
John R. Boyle, Chicago, Ill., assignor to Edward A. Mertes, Chicago, Ill.
Application November 10, 1950, Serial No. 194,988
10 Claims. (Cl. 257—74)



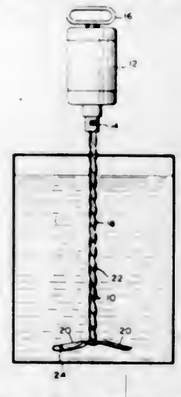
1. In cooling apparatus of the class described, the combination of a rotatable cooling coil, supporting means for rotatably supporting said coil, a water motor for revolving said coil comprising a turbine wheel against which the entering water is adapted to impinge, and means automatically responsive to the pressure of the entering water for controlling the effectiveness of the action of the water jet against said wheel, whereby to prevent wide variations of pressure of the entering water from producing wide variations of speed in the turbine wheel.

2,659,580
PLATE HEAT EXCHANGER
Robert Pontus Larsson Hytte, Lund, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application April 19, 1950, Serial No. 156,739
6 Claims. (Cl. 257—245)



1. In a plate heat exchange apparatus having a main heating section and also having a regenerative heater divided into two sub-sections, each section and sub-section having a heating side and a cooling side, the combination of a holding cell located between the two regenerative sub-section and having walls forming a main cell space communicating with the heating side of the main heating section for receiving heated liquid therefrom, the cell having an outlet from said space leading to the cooling side of one sub-section and also having a channel connecting the cooling sides of the two sub-sections, the cell also having two passages separated from each other and from said main space and channel and communicating, respectively, with the heating sides of the two sub-sections, means forming an outlet from one of said cell passages for feeding liquid to a centrifuge, and means forming an inlet to the other passage for receiving liquid from the centrifuge.

2,659,581
PAINT STIRRER
William C. Gray, Detroit, Mich., assignor to The Detroit Edison Company, Detroit, Mich., a corporation of New York
Application May 7, 1951, Serial No. 225,028
1 Claim. (Cl. 259—134)



In a paint stirrer for use in connection with an ordinary flat-bottom paint can, a rotatable shaft having helically disposed ribs thereon of a hand opposite to the direction of intended rotation of said shaft to force fluid to flow downwardly along said shaft when the latter is thus rotated, and an agitator on said shaft adapted to force fluid to flow downwardly upon rotation of said shaft in the direction aforesaid, said agitator comprising paddles secured to and extending radially outwardly from the lower end of said shaft, each of said paddles being twisted in a zone adjacent to said shaft to be inclined downwardly and rearwardly from the leading edge thereof, and each of said paddles being bent in said zone to extend downwardly from the lower end of said shaft and at a substantial angle thereto.

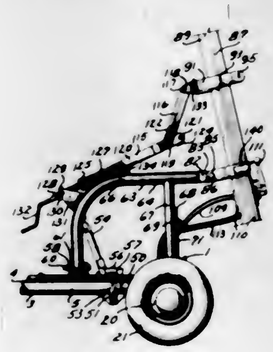
2,659,582
FOAM FORMING DEVICE
Nicholas Sandor, deceased, late of Surbiton, England, by Florence Margaret Anne Sandor, executrix, Surbiton, England
Application November 10, 1950, Serial No. 194,966
3 Claims. (Cl. 261—122)



1. A foam-forming device comprising a rigid casing including an upper part and an imperforate lower part, said parts of the casing being secured together, a porous plate of material

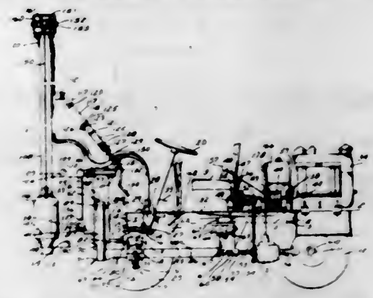
which shrinks on drying and expands when wet mounted in the casing, said porous plate being mounted in spaced relation to at least a portion of said lower imperforate part of the casing to provide an air space therebetween and being provided with an outwardly facing peripheral groove, an elastic sealing means mounted in said peripheral groove in the plate, said elastic sealing means projecting outwardly beyond the periphery of the porous plate and engaging the inner peripheral surface of one of said parts of the rigid casing with an air-tight seal when the porous plate is dry, said elastic sealing means being adapted to be compressed between the rigid casing and the porous plate when the porous plate is wet and expands, and means for supplying air under pressure to the space between the lower imperforate part of the casing and the porous plate, whereby air is forced through the pores of the porous plate.

2,659,583
DROP HAMMER AND CARRIAGE THEREFOR
Evan E. Dorkins, Ottawa, Kans., assignor to Ottawa Steel Products, Inc., Ottawa, Kans., a corporation of Kansas
Application January 16, 1950, Serial No. 138,811
5 Claims. (Cl. 262—13)



1. A portable drop hammer comprising, a carriage, a frame pivotally mounted on the carriage and swingable about an axis longitudinally of said carriage, means adjustably connecting the frame and carriage for controlling pivotal movement of the frame, a trackway, means pivotally mounting the trackway on the frame for swinging movement about an axis transversely of the carriage, hingedly connected brace members one of which is pivotally mounted on the frame and the other having pivotal connection with the trackway above the pivotal mounting thereof, removable means connecting the brace members to hold same against hinging movement, one of said brace members being adjustable in length for adjustably tilting the trackway fore and aft of the carriage, said brace members having relative hinging movement upon removal of said connecting means to permit pivoting the trackway on its mounting means for folding said trackway downwardly over the carriage, a hammer having sides sliding in said trackway, a source of fluid pressure, and means selectively operated by said fluid pressure for raising the hammer in the trackways, said means upon release of the fluid pressure permitting substantially free falling of the hammer.

2,659,584
SELF-PROPELLED HYDRAULIC HAMMER
Evan E. Dorkins, Ottawa, Kans., assignor to Ottawa Steel Products, Inc., Ottawa, Kans., a corporation of Kansas
Application August 23, 1950, Serial No. 181,069
7 Claims. (Cl. 262—13)



1. In apparatus mounting a portable drop hammer structure on a carriage having a transverse member, said drop hammer structure having a trackway, a hammer sliding in said trackway and mechanism raising said hammer and permitting substantially free falling thereof; a frame, means on the carriage pivotally and slidably mounting one end of the frame for sliding movement longitudinally of the carriage and swinging movement of the other end of said frame transversely of the carriage, rollers engaged with the transverse member and movable therealong, means pivotally mounted on the frame in spaced relation to said one end thereof for pivotal movement about a vertical axis and connected to the rollers for supporting the other end of the frame from said transverse member and guiding said other end of the frame in swinging movement transversely of the carriage, an upright column mounted on the frame at said other end thereof and rotatable about a substantially vertical axis, means mounting the trackway on the column, a source of fluid pressure, means selectively operated by said fluid pressure for swinging the frame laterally of the carriage, and means on the frame connected with the column for control of rotary movement of the column and independent lateral swinging movement of the trackway relative to the frame.

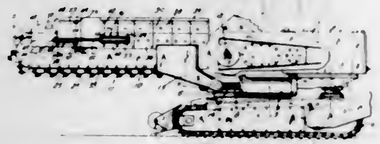
2,659,585
POWER DRIVE CONNECTION FOR COMBINED ROTATABLE AND OSCILLATABLE MINING TOOLS
Robert A. McCallum, Clarendon Hills, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1951, Serial No. 234,207
12 Claims. (Cl. 262—19)



1. In a digging machine, a frame, a main drive shaft rotatably supported on said frame for universal oscillatory movements relative to its normal axis of rotation, said main shaft having a portion at the oscillatory end thereof offset axi-

ally from the normal axis of said main shaft, a hollow shell having peripheral digging bits and rotatably mounted on said axially offset portion of said main shaft, a weight fixed on said axially offset shaft portion, the center of gravity of said weight being axially offset from the main axis of said shaft in a direction opposite to the offset portion of said shaft, and means for rotating said shell independently of said weight.

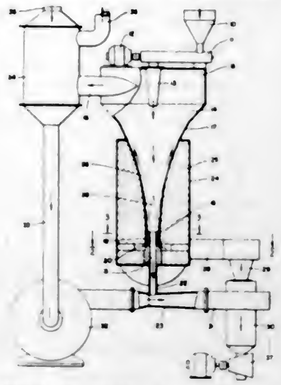
2,659,586
SIDE BOARD-EQUIPPED DISINTEGRATING MECHANISM
Samuel Leven, Michigan City, Ind., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 23, 1948, Serial No. 67,023
6 Claims. (Cl. 262—29)



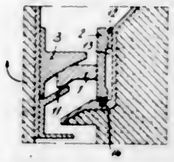
1. In combination, in an apparatus for disintegrating and removing material from a mineral vein in a series of vertical bands bounded laterally by substantially parallel surfaces and at front and back by arcuate surfaces struck from different axes, by successive attacks on the vein each including a shearing operation following a sumping operation, a disintegrating mechanism supported for sumping and shearing movements and including a bar structure having vein-attacking elements moving thereon in orbits the forward portions of which extend within the face for a limited distance during vein disintegration, trough-forming means mounted on said bar structure and extending forwardly along the sides thereof but terminating short of the rearmost point thereof which enters the face, and an element mounted on said bar structure and movable relative to the latter to form an extension of said trough-forming means at one side only of said bar structure, said element movable between positions in which no portion of it is as far forward as the rearmost point which enters the face and in which, during disintegration, its forward end substantially overlaps laterally portions of said orbits which are within the working face whereby said element in outer position cannot foul undisintegrated solid material and when in its forward position diminishes the lateral escape of disintegrated material by extending the trough at the free side of a band undergoing disintegration.

2,659,587
CALCINING APPARATUS
William Spencer Bowen, Westfield, N. J.
Application January 11, 1951, Serial No. 205,527
10 Claims. (Cl. 263—21)

1. Treating apparatus, comprising a housing forming a treating chamber, means to introduce material to be treated into the upper central portion of the chamber, a fluid outlet adjacent the periphery of the upper portion of the chamber, side walls for the housing extending downwardly from the upper portion and converging into a lower extremity of relatively restricted diameter, an axial discharge pipe in the lower extremity of the housing, said discharge pipe having an upper extremity in and closely spaced from the lower extremity of the converging housing side walls to form an annular inlet nozzle, and means to create a relatively low pressure in the discharge pipe.



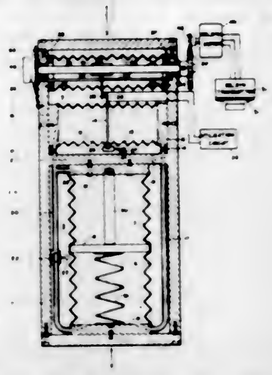
2,659,588
FURNACE
Paul Blanchard, Paris, France
Application March 23, 1951, Serial No. 217,084
Claims priority, application France April 15, 1950
6 Claims. (Cl. 263—32)



1. A rotary furnace arrangement comprising, in combination, a rotary furnace body having a front wall formed with an opening passing therethrough; burner housing means associated with said opening in said front wall of said furnace body; plate means mounted on said front wall of said furnace body about said opening thereof, said plate means having an outer peripheral portion located against said front wall and an inner peripheral portion in sealing engagement with said front wall, and said plate means being spaced, between said peripheral portions thereof, from said front wall and being formed with at least one passage passing through said outer peripheral portion thereof and communicating with the space between said plate means and front wall; and sealing means located between and contacting said burner housing means and said plate means, whereby a cooling fluid may enter through said passage in said outer peripheral portion of said plate means into said space between said plate means and front wall of said furnace body.

2,659,589
INTEGRATING ACCELEROMETER
Clarence N. Hickman, Albuquerque, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application September 23, 1952, Serial No. 311,105
9 Claims. (Cl. 264—1)

9. An integrating accelerometer comprising a casing, a first pair of bellows in said casing, an imperforate wall member common to each of said bellows and dividing one from the other, means closing end portions of the bellows spaced from said wall member, a second pair of bellows angularly disposed to said first pair of bellows, an imperforate wall member common to each of said second pair of bellows and dividing one from the other, means closing end portions of the second bellows spaced from the imperforate wall member thereof, a conduit interconnecting the bellows of said first pair and including an inertially operated shutoff valve, additional conduits connecting one bellows of the first pair with one bellows of the second pair and connecting the other bellows of the first pair with the other bellows of the second pair, and means operatively connected with at least one of said wall members for indicating movement thereof.



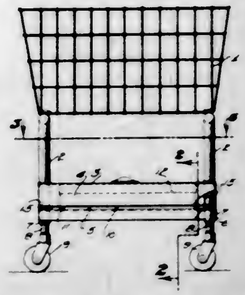
2,659,590
WEIGHING SCALE HOUSING
John M. Little and Cecil G. Blank, Toledo, Ohio, assignors to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application May 2, 1949, Serial No. 90,888
6 Claims. (Cl. 265—27)



6. In a weighing scale housing, in combination, a pair of shells each constituting half of the enclosure for a chart and weighing mechanism, said shells having generally coplanar surfaces meeting along the parting line between the shells, each shell having at least one interrupted section raised above the level of the shell surface adjacent the parting line, a frame member located adjacent the parting line and behind the raised sections, a clip having a depending rim, said clip bridging the parting line with the rim engaging the raised sections, and fastening means for securing the clip to the frame member.

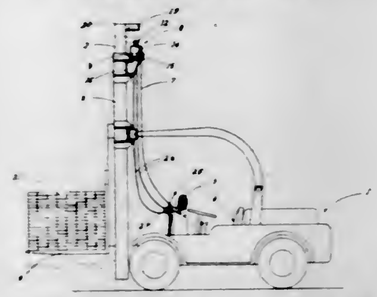
2,659,591
WEIGHT INDICATING CART
Samuel Odis Walding, Santa Monica, Calif.
Application January 26, 1952, Serial No. 268,409
1 Claim. (Cl. 265—40)

A weight-indicating cart, comprising: an upper and a lower rectangular plate, each having a marginal skirt; a weight indicating unit interposed between said plates; downwardly directed rigid legs secured in the corners of said lower plate; a set of upwardly directed legs; secured to the corners of said upper plate; and a container carried by said upwardly directed legs;



said plates movable to and from each other; and yieldable bumpers interposed between said plates to limit relative movement thereof.

2,659,592
LOAD WEIGHT INDICATOR FOR FORK-LIFT TRUCKS
Cecil L. Wetsel, Sacramento, Calif.
Application April 7, 1952, Serial No. 280,921
4 Claims. (Cl. 265—40)

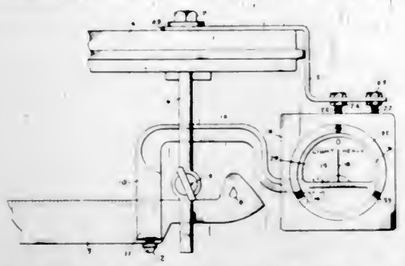


1. A load weight indicator for a fork lift truck having a load-supporting elevator frame and an upstanding main frame on which the elevator frame is vertically movable, the latter frame including forwardly projecting lift forks; the indicator comprising a fluid pressure unit mounted on the main frame on the back side thereof and including an upwardly projecting vertically movable element whose downward movement exerts pressure on the fluid in the unit, a pressure gauge calibrated in terms of weight mounted on the truck, and a conduit between the gauge and unit; and a lug fixed on the elevator frame and projecting therefrom in overhanging relation to the working position of said movable element and at a level to engage the same upon lowering of the elevator frame to adjacent its lowest position on the main frame.

2,659,593
WEIGHING SCALE
Lester D. Singleton, Burlington, Vt., assignor to H. A. Hadley Associates, Inc., Burlington, Vt., a corporation of Vermont
Application August 23, 1950, Serial No. 180,998
5 Claims. (Cl. 265—58)

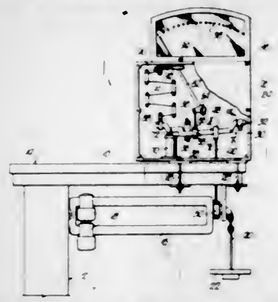
1. A removable indicating device attachment for a beam scale wherein the beam has a free end oscillatable within a restraining member and a shelf for supporting said beam, said indicating device comprising a bracket adjustably mounted on said beam, a magnet fixed to said bracket, a

second bracket adjustably mounted on said shelf, a housing carried by said second bracket, and



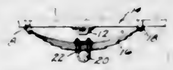
load indicating means in said housing, said load indicating means being movable by the attraction of said magnet.

2,659,594
TRANSLATING ASSEMBLY FOR BEAM-TYPE WEIGHING SCALE
Edwin J. Eisner, Kansas City, Mo.
Application May 28, 1951, Serial No. 228,597
4 Claims. (Cl. 265—59)



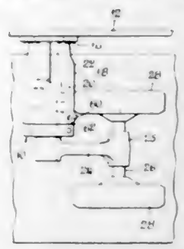
1. In an indicating attachment for scales, a swingable scale beam; a swingable counterbeam connected with said scale beam for swinging movement thereby; a swingable indicator hand connected with said counterbeam for swinging movement thereby; a spring assembly joined with said counterbeam for holding the latter biased in its direction of swinging movement under influence of the weight of an article being weighed on the scales, said assembly including a number of superimposed, flat springs, one spring being joined to the counterbeam; and means for supporting a second of the springs, each of the remaining springs having one end thereof joined with an overlying spring and its opposite end joined with an underlying spring.

2,659,595
SHOCK ABSORBER
William A. Coda, Kingsville, Ontario, Canada
Application May 5, 1951, Serial No. 224,695
4 Claims. (Cl. 267—30)



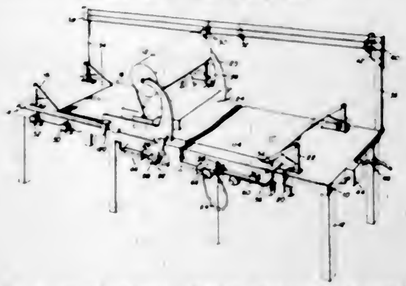
1. A shock absorber comprising a plate member, a first pair of upwardly extending flanges struck out of the body portion of said plate and spaced longitudinally thereof, a second pair of upwardly extending flanges struck out of the body portion of said plate and spaced transversely thereof between said first pair of flanges, and an apertured rubber block on said plate between both pair of said flanges, one pair of flanges being bent inwardly into the aperture of said block.

2,659,596
AXLE ASSEMBLY
Harold C. Keysor, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application April 12, 1952, Serial No. 281,959
6 Claims. (Cl. 267—58)



1. In an axle assembly for supporting a related vehicle body, a housing secured to the body, coaxial bearing means at spaced points on the housing, a shaft disposed outwardly of the related body and rotatably supported by the bearing means, a coiled spring disposed within the housing and surrounding the shaft, a spring clip secured to the shaft and connected to said coiled spring, a ledge extending from the spring clip and telescoped within said spring, a spring shelf connected to the housing remote from said ledge and also telescoped within said spring, and means connecting the spring to the housing whereby axial rotation of the spring is resisted.

2,659,597
CONTROL SYSTEM FOR CLOTH LAYING MACHINES
William E. Shaak, New Orleans, and Nathan N. Shaak, Metairie, La.
Application July 21, 1952, Serial No. 299,958
5 Claims. (Cl. 270—31)



1. In a cloth laying device having a spreading table, a motor operated spreading machine operable between fixed and an adjustable cloth clamp on said table, a control system for said machine including a reversable motor connected in driving relation to said machine, a reversing controller, a supply circuit connected to said controller, a feeder circuit between said controller and said motor, a control system comprising a plurality of control buses operatively connected to said controller and extending adjacent one side of said table, a plurality of control stations distributed along the side of said table, said stations being spaced a distance of the order of four to eight

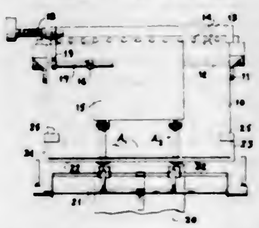
feet apart, each of said control stations including a stop, a forward and a reverse switch, said switches being operatively connected to said buses.

2,659,598
PROPORTIONAL SEQUENCE CONTROL FOR FOLDERS
Russell G. McLagan, Milford, Ohio, assignor to The American Laundry Machinery Company, a corporation of Ohio
Application March 8, 1950, Serial No. 148,453
7 Claims. (Cl. 270—80)



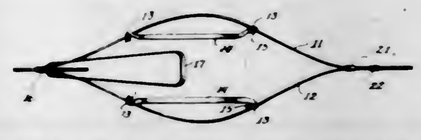
1. Control means adapted to time the execution of an operation on each of a series of spaced articles moving on a conveyor past measuring means, and wherein an operating member is energized to perform such operation responsive to rotation of a timing member past a point of registry, said control means comprising a first driving member, a second driving member, means for rotating said driving members at different rates, means for producing and continuously maintaining planar frictional driving engagement between said timing member and said first driving member, stop means for preventing rotation of said continuous timing member despite said frictional driving engagement, means for producing positive driving engagement between said timing member and said second driving member while simultaneously rendering said stop means ineffective, whereby said timing member rotates responsive to said second driving member despite said continuous frictional engagement with said first driving member, and means for terminating said positive driving engagement while said stop means remains ineffective, to permit said timing member to be driven from said first driving member by means of the aforesaid frictional engagement until said timing member reaches said point of registry.

2,659,599
ADJUSTABLE TENSION BACKSTOP FOR MIEHLE VERTICAL PRINTING PRESSES
Emil P. Valley, Chicago, Ill.
Application June 2, 1949, Serial No. 96,762
4 Claims. (Cl. 271—60)



1. In a backstop positioned on one end of a table and adapted to accurately position a sheet of paper on said table against a stop located at the other end of said table, a main supporting bar arranged transversely of said table adjacent to and spaced from said one end thereof and adjustably mounted thereon, means for fixedly holding said main supporting bar in an adjusted position with respect to said table, a pair of arms arranged in spaced side by side relation with respect to each other positioned on said table and having one of their adjacent ends secured to said main supporting bar and having their other adjacent ends projecting toward said other end of said table, and a register means slidably mounted on each of said arms and adapted to engage said sheet of paper to accurately position said sheet of paper against said stop, said register means comprising a carrier plate slidably positioned on the adjacent one of said arms, said carrier plate being provided with an opening therein, a bracket positioned on said carrier plate adjacent said opening and secured to said carrier plate, a sheet edge engaging member having one end rotatably supported in said bracket for movement about an axis transverse of said table and having its other end projecting into said opening, resilient means having one end bearing against said bracket and having its other end bearing against said sheet edge engaging member and urging the latter against said sheet of paper and toward said other end of said table, and means secured to said bracket for adjusting said resilient means.

2,659,600
TOY HORSE
Walter J. Becker, Crown Point, Ind.
Application August 30, 1950, Serial No. 182,355
2 Claims. (Cl. 272—1)



1. A hobby horse comprising two identical horse figures made of flexible paperboard, said figures and terminating in knots, elastic reins top edges, a pair of elastic shoulder straps each passing through the apertures in one of said figures and terminating in knots, elastic reins connected to the heads of said figures, and adhesive strips interconnecting said figures at widely spaced intervals along the leading and trailing edges of said figures whereby the intermediate portions of said figures may be separated for insertion of a child's body, said hobby horse having a resiliency to cause said portions to cling to the child's body.

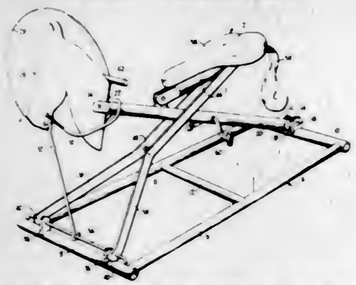
2,659,601
ROUNDABOUT AMUSEMENT DEVICE
Edward C. Siverts, Glendive, Mont.
Application January 17, 1951, Serial No. 206,329
6 Claims. (Cl. 272—36)



1. A roundabout comprising a central frame means mounted for rotation about a vertical axis, a plurality of radially extending arms connected to said central frame means for rotation therewith, a stationary track concentrically disposed about said central frame means and underlying

intermediate portions of said arms, rollers carried on said arms at said intermediate portions thereof for engagement with said track, and each of said arms having a pair of buckets oscillatable about a common axis and oscillatably carried by their respective arm, said buckets being oscillatable about a horizontal axis perpendicular to said arms, and means for effecting relatively opposite oscillatory movement of the buckets of each pair of buckets, said last named means including a power rotated disk mounted on said central frame means, endless cable means mounted on each of said arms and connected to said buckets for effecting oscillating movement thereof upon reversing movement of said cable means, and means interconnecting said disk with said cable whereby rotation of said disk will effect reciprocation of said cable:

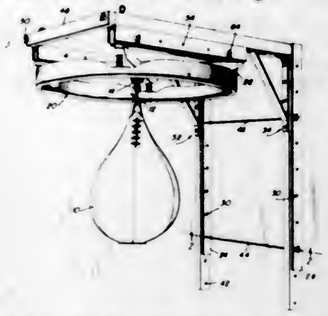
2,659,602
ROCKING HORSE
Louis Cowsar, Longview, Tex., assignor of one-half to Orville E. Cowsar, New London, Tex.
Application June 21, 1951, Serial No. 232,826
1 Claim. (Cl. 272—53.1)



In a rocking horse, comprising a substantially rectangularly shaped stationary base member of tubular construction, a bar pivotally connected at one end at a substantially medial point to the rear portion of the base, and extending forward over the base at an oblique angle, a pair of bars pivotally connected conterminous with the corners to the forward portion of the base and extending rearwardly over the base at an oblique angle, said pair of bars converging toward their rear ends and extending substantially straight to a point rearward of the front end of the first mentioned bar, a cross member pivotally secured at one end to the rear ends of said pair of straight bars, and pivotally secured at its opposite end to the first mentioned bar at a point above where the pair of bars extend past the first mentioned bar in such a manner to limit independent pivotal movement of said pair of bars and said first mentioned bar, a seat on the cross member, stirrups secured to the first mentioned bar at a point below the seat and the pair of bars, a head pivotally secured to the forward end of the first mentioned bar, handles on the head, and a support bar pivotally secured to the head and the forward portion of the base.

2,659,603
PUNCHING BAG APPARATUS
Charles F. Glasser, Salladasburg, Pa.
Application October 4, 1951, Serial No. 249,733
2 Claims. (Cl. 272—78)

1. A punching bag apparatus comprising a pair of parallel vertical anchor channels, a pair of angle members, said angle members having vertical and horizontal arms, a brace applied at the angular corner to rigidify the angle members, the vertical arms of said angle member being slidably received in said anchor channels, a plurality of equally spaced holes in said anchor members, and in said vertical arms, fastening means selectively engaging said holes to adjustably anchor said angle members in any desired position, a supporting frame, a bag mounted on



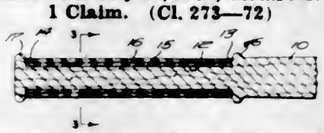
said frame, a channel member on each horizontal arm of said angle members, a pair of mounting rails on said supporting frame, said rails being slidably received in said channel members, holes in said rails and said channel members, said holes being equally spaced with the holes in the anchor channels, fastening means selectively engaging pairs of said holes.

2,659,604
EXTRA POINT AND FIELD GOAL KICKING TEE
Neil E. McGowen, Auburn, Ala.
Application August 30, 1950, Serial No. 182,311
1 Claim. (Cl. 273—55)



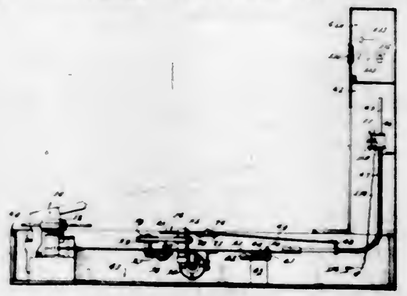
A football tee for use by a ball receiver and a kicker to assist the kicker in kicking an extra point after touchdown or making a more satisfactory attempt to kick a field goal, as the situation may be, comprising a solid block-like body of a size to cooperate with a regulation football, said body having a flat bottom provided at one end only with a pair of opposed depending calks adapted to be temporarily anchored in the ground and having a longitudinal open-ended channel, said channel having an approximately flat trapezoidal bottom gradually increasing in height from the rear toward the forward end of the body and having opposed vertical side walls, said side walls converging toward each other in a direction toward the bottom of the channel and also converging toward each other in a direction toward the front end of the channel and defining a substantially V-shaped ball exit, and the upper edge portions of said side walls being curved rearwardly and downwardly and being decreased in height gradually from the front toward the rear end of the body to provide clearance for the kicker's cleats by way of the rear end of the channel and also clearance for the sole of the shoe over the top of the rearwardly receding side walls.

2,659,605
BASEBALL BAT GRIP
George J. Letourneau, Central Falls, R. I.
Application February 25, 1952, Serial No. 273,220
1 Claim. (Cl. 273—72)



A baseball bat comprising a wooden body of sharply reduced diameter adjacent one end providing spaced shoulders, a layer of sponge rubber embracing said portion of reduced diameter and extending from one shoulder to the other, a second similar layer of sponge rubber extending between said shoulders, said layers being cemented together and providing a handle gripping portion, the outer surface of said body being tapered, and circular wooden beads of the same piece of material as the body and of a diameter to extend outwardly beyond the said tapered surface at either end of the handle gripping portion to assist in locating the hands on the handle between said beads to prevent the hands from slipping along the bat.

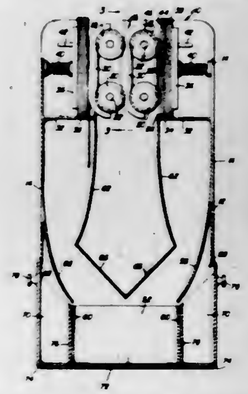
2,659,606
LIGHT BEAM TARGET MECHANISM
Earle G. Henry, Wilmette, Ill., assignor to Raymond T. Moloney, Chicago, Ill.
Original application November 18, 1946, Serial No. 710,464, now Patent No. 2,586,330, dated February 19, 1952. Divided and this application February 16, 1952, Serial No. 271,925
10 Claims. (Cl. 273—105.2)



1. In photoelectric marksmanship apparatus, a roving target structure including a sweep arm, a motor carried by said arm, drive connections effecting oscillation of said arm under power of said motor, a target carrying rod movable with said arm, a target reciprocable on said rod, a reciprocating drive arm moving in part, at least, longitudinally of said rod, and a flexible connection between said drive arm and target for moving the latter responsive to reciprocatory movements of said drive arm, and means drivingly interconnecting said motor and said drive arm for effecting scrambled reciprocatory movement of the latter.

2,659,607
CARD SHUFFLING DEVICE
Claude T. Skillman and Mitchell Kistner, Santa Maria, Calif.
Application May 11, 1950, Serial No. 161,296
3 Claims. (Cl. 273—149)

1. A card shuffling device comprising a casing, first and second card separators mounted in said casing, each of said separators including a pair of vertically aligned rollers rotatably mounted transversely of said casing, a plurality of endless belts carried by each of said pairs of rollers, a raised layer extending outwardly from a portion of said belts, first and second card stack supports positioned below said pairs of rollers respectively, said card stack supports each being adapted to receive the edge of a pack of cards, each of said supports having a card discharge slot therein, a resilient device yieldingly urging said stacks of cards against the outer sides of said pairs of rollers, means for driving said rollers, said yield-

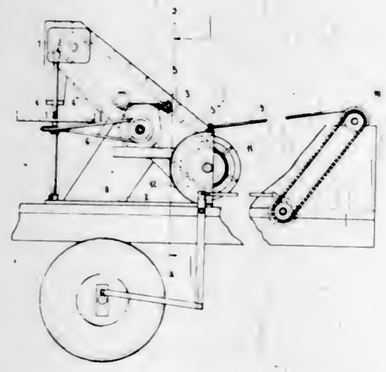


ing means urging said stacks of cards to a position where the cards adjacent said rollers are inward of said slots, said raised layer contacting the card adjacent said pair of rollers and urging said card toward the associated support while moving said stack laterally over the slot in said support, the thickness of each of the raised layers being equal to the distance from the outer surface of the belts adjacent the rollers to the inner edge of the respective slots, means for operating said first and second card separators in timed relation to each other, a receptacle in said casing, means for guiding the discharged cards from each of said separators into said receptacle.

2,659,608
MEANS FOR DELIVERING LIME AND MANURE FROM MOTOR TRUCKS AND THE LIKE
Hereward J. B. Topp, Mauriceville, Wairarapa, New Zealand
Application May 24, 1950, Serial No. 163,812
5 Claims. (Cl. 275—8)

5. Means for delivering lime, manure and the like material from a transport vehicle including running gear, a body including a bed and opposite side walls each terminating in upper marginal edges and defining an enclosure for the material to be delivered, a frame including skid means slidably supported on the bed of said body for movement longitudinally therealong, a power plant supported on said frame, a vertically disposed shaft carried by said frame, a rotary spinner ejector means carried by said shaft at substantially the same level as the upper terminal margins of the side walls, said shaft including a portion extending above said rotary spinner, a chute supported by said frame extending at an angle with respect to the bed and terminating in an upper end superjacent said spinner, an endless elevator including opposite ends movably mounted within said chute and including scraper means operable to transfer material from a level

adjacent said bed up above and onto said spinner, said chute being disposed substantially centrally of the bed, a housing supported by the frame adjacent the lower end of the chute and extending transversely of the axis of the vehicle and terminating in opposite ends, said housing having a central opening therein accommodating said chute, a cross shaft extending within said housing transversely of the axis of the vehicle and means operably connecting one end of said elevator to said cross shaft, drive means operably connected between the upwardly extended



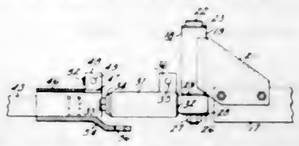
portion of said vertical shaft and the opposite end of said elevator, and worm conveyor means carried by said cross shaft and extending between said chute and the respective opposite ends of said housing, said worm conveyor means being oppositely disposed to feed material toward said elevator, transmission means operably connecting said power plant with said vertical shaft for simultaneously operating said spinner, elevator and worm conveyor and means supported by the vehicle and operably connected with said frame for moving the frame longitudinally of the vehicle.

2,659,609
VEHICLE TOWING DEVICE
Rudolph C. Johnson, Minneapolis, Minn.
Application March 18, 1950, Serial No. 150,366
10 Claims. (Cl. 280—33.14)



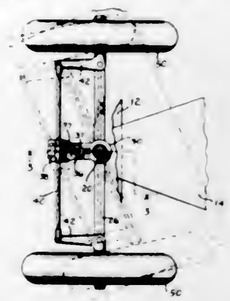
1. A vehicle towing device including a pair of clamping members and a flexible connection therebetween, the clamping members including a pair of levers pivotally connected intermediate their ends, the levers having opposed jaws, the flexible member being connected to one of the pivotal members of each clamping device and being slidably connected to the other clamping member of each device so that a pull upon the flexible member tends to urge the jaws of the clamping member together, the point of connection between said flexible member and said one lever being nearer the pivot point than the point of connection between said flexible member and the other lever.

2,659,610
DRAWBAR ASSEMBLY
Raymond C. Fischer, La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application August 24, 1950, Serial No. 181,123
2 Claims. (Cl. 280—33.44)



1. In combination in a wheeled draft vehicle and a semitrailer, a rearwardly extending drawbar member having forward portions thereof mounted for pivotal movement about an axis transverse to the line of draft on laterally spaced vehicle carried supports positioned adjacent the axis of rotation of the rear wheels of said vehicle, a receiving element attached to rear portions of said drawbar, a bearing structure received within said receiving element, means for detachably rigidly connecting said bearing structure and said receiving element to prevent relative movement thereof, a longitudinally extending pivot carried within said bearing structure for relative pivotal movement thereto about a longitudinal axis including the line of draft, a vertically extending pivot member attached to the rear end of said longitudinal pivot, and a vertically extending bearing member attached to the tongue structure of said semitrailer, said vertical bearing receiving said vertical pivot for pivotal movement relative thereto about a vertical axis through the line of draft.

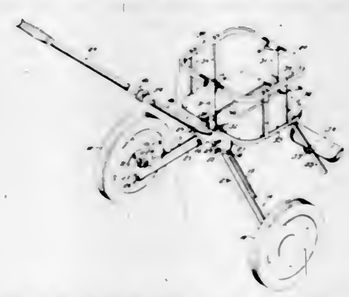
2,659,611
STEERING DEVICE FOR TRAILERS
Cashly A. Henry, Dayton, Ohio
Application December 26, 1951, Serial No. 263,187
5 Claims. (Cl. 280—33.55)



1. A tandem trailer assembly wherein a plurality of two-wheel trailers are connected in tandem, the combination including an intermediate trailer and a following trailer, a pair of steerable wheels mounted near the rear end of the intermediate trailer, and means for steering the wheels of the intermediate trailer, said steering means including a member non-rotatably attached to the immediately following trailer, a pair of bell crank members pivotally mounted under the intermediate trailer, one arm of each bell crank lever forming an axle, the wheels being rotatably mounted on the axles, a steering link for interconnecting the other arms of the pair of bell crank levers associated with the intermediate trailer, a member slidably engaging

the non-rotatably mounted member and fixedly attached to the steering link so as to cause the wheels under the trailer to be steered from the immediately following trailer.

2,659,612
FOLDING BABY CART
Norman B. Williamson, Portland, Oreg.
Application October 28, 1950, Serial No. 192,730
1 Claim. (Cl. 280—40)



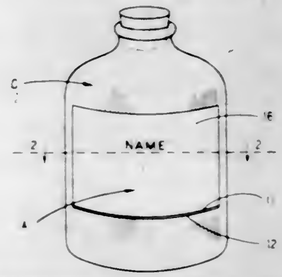
A child's cart having in combination a seat composed of a fixed central portion and a pair of outer portions hinged to opposite sides of said central portions, a post at each end of the central portion, a pair of rails hinged to the top of said posts and extending around the edge of said seat and spaced therefrom, spindles hinged to said rail and seat adapted to permit said rail and seat to fold in unison, a plate attached to the central seat portion, said plate having a pair of stems extending slidably therethrough, said plate having a central and an inclined slot formed therein radiating from the stem, a spring on said stem, a parallel pair of links hinged to said central seat portion, springs for urging one link of each pair to one slot at each stem, and handle means for manipulating said cart.

2,659,613
STEERING GEAR
Lester E. Oberholtz and Gene Allen, Independence, Mo., assignors to Gleaner Harvester Corporation, Independence, Mo., a corporation of Delaware
Application April 13, 1951, Serial No. 220,912
1 Claim. (Cl. 280—95)



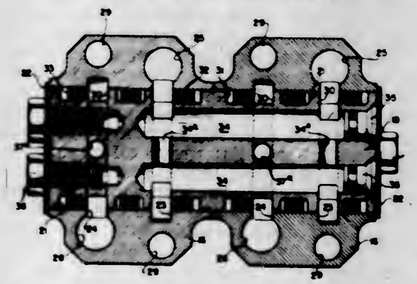
In a combine including a frame, wheels supporting the fore part of said frame at the sides thereof, a transverse axle having pivotal mounting on a rear part of the frame at a point midway of the width of the frame, steering knuckles on the respective ends of the axle and having steering arms, wheels carried by the steering knuckles, said pivotal mounting including a tubular trunnion having one end extending through the axle and the other end journalled on the frame, a bell crank pivotally mounted on the axle and having an arm registering with the end of the tubular trunnion which extends through the axle, links connecting the bell crank with said wheels mounted on the ends of the axle, and a steering mechanism including a drag link freely reciprocable through the trunnion and connected with said arm of the bell crank to effect steering of said wheels on the end of the axle, said steering arms, drag link and connecting links being substantially in a common plane extending through the axis of the trunnion on which the axle pivots.

2,659,614
MEDICINE BOTTLE LABEL
John S. Cook, Kansas City, and David V. Whitney, Jr., Liberty, Mo., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
Application September 20, 1950, Serial No. 185,852
7 Claims. (Cl. 282—21)



1. In combination, a container having an arcuate surface, and a label rigidly affixed to the container surface, the label comprising an inner panel secured to the container surface, and an outer panel folded over the inner panel and joined to the inner panel only along the line of fold, the line of fold being on a tear line forming an edge of the label and describing an arc on the container surface.

2,659,615
DUAL HYDRAULIC SWIVEL JOINT
Thomas H. McClain, Altadena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application June 21, 1949, Serial No. 100,435
1 Claim. (Cl. 285—96.3)



A swing joint comprising a cylindrical barrel having at least two bores parallel to the axis thereof and extending from opposite ends of said

barrel and each terminating short of the other end of said barrel with four separate spaced annular grooves in the surface of the barrel, alternate grooves communicating with one of said bores and the remaining grooves communicating with the other of said bores, a pair of identical housing members embracing the cylindrical surface of said barrel in side by side relationship for separate rotation thereon, each member having a pair of separate internal annular grooves in alignment with and communicating with an adjacent pair of the grooves in the surface of said barrel, separate parallel passageways on each of said members at substantially right angles to the barrel axis and opening on a common face diagonally disposed on either side of said barrel in tangential communication with the separate grooves in said members to provide fluid connections, sealing plugs inserted into the open ends of said bores, end plates attached to said barrel to retain said sealing plugs in position, and sealing means carried by said barrel on each side of each of said grooves to form separate conduits passing from one housing member through the barrel and thence out through the other of said housing member.

2,659,616

VACUUM CLEANER IMPLEMENT AND HANDLE COUPLING

Dewey I. Doyle, Sr., Grand Rapids, Mich., assignor to Doyle Vacuum Cleaner Co., Grand Rapids, Mich.

Application August 30, 1948, Serial No. 46,820
2 Claims. (Cl. 285—97.1)



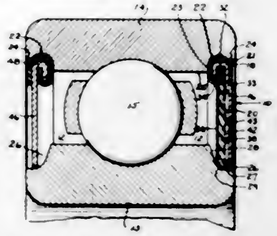
1. A joint for connecting a tubular coupling adapted as a conduit to the side of a chambered body having a flat rear wall substantially larger than said coupling with an opening in said rear wall comprising, a tubular cylindrical sheet metal nipple fixedly secured in said opening and projecting normally from said rear wall said wall projecting in a plane a substantial distance around said nipple, said coupling telescopingly and rotatably receiving said nipple, the lower portion of the wall of the coupling being radially thickened through an angle approximating 150°, such thickened wall portion having an exterior peripheral groove adjacent its outer end with the ends of the groove opening at the side edges of the said thickened wall portion, and a separate flat lug having an upwardly concave upper edge mounted against said flat rear wall of said body and having a rabbeted upper edge forming an arcuate flange positioned below and in spaced relation to said nipple and said rear wall and engageable and disengageable with said groove of said coupling by a relative rotative movement of the body and the coupling, the end of the coupling being in abutting engagement with the rear wall of the body when the lug is engaged with the coupling said nipple projecting into said coupling a distance at least equal to the diameter of the nipple, the groove being of such length as to permit relative rotation of said coupling and body through an angle of at least 180° without disengagement of the body from the coupling.

2,659,617

DEMOUNTABLE CLOSURE

Leland D. Cobb, Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 16, 1950, Serial No. 149,949
14 Claims. (Cl. 286—11)



1. In a closure for demountably positioning across an annular lubricant chamber between a pair of relatively rotatable members one of which has a surface of revolution facing towards the other member, a circular shield extending alongside the lubricant chamber and having a rim, the rim being laterally folded back towards the body of the shield, and a sheet of resilient sealing material gripped by the rim and laterally folded back over the periphery of the rim and demountably seated in compressed engagement against said surface of revolution.

2,659,618

MULTIPLE POINT CONNECTOR FOR BRACES

Elso Bruno Capra, Mantova, Italy

Application August 6, 1949, Serial No. 108,871
1 Claim. (Cl. 287—54)



In a structure having a plurality of braces converging at one point; a multiple point connector for the converging ends of the braces, the connector comprising a hollow tubular through member, spaced ridges on the outer surface of the opposite ends of said through member, means for releasably securing corresponding ends of the braces to said ridges on the opposite ends of the through member, a collar disposed on the through member intermediate the ends thereof, the collar comprising spaced parallel side members in planes perpendicular to the center line of

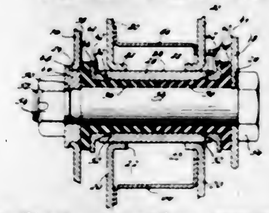
the through member, the side members having aligned apertures formed therein, at least two anchors, each anchor comprising a substantially cylindrical base member an integrally formed elongated intermediate member and an integrally formed tubular top member, means for pivotally securing the base member of one anchor in the aligned openings of and between the side members of the collar, spaced ridges on the outer surface of said top member, and means for releasably securing the ridges of the top member of the anchor to the converging end of one brace; the connector further comprising a plurality of spaced angular brackets disposed on the tubular member adjacent the outer surface of each side member of the collar, consecutive brackets having aligned openings formed therethrough, means through the aligned openings for pivotally securing the base member of the other anchor between consecutive brackets, and means for releasably securing the converging end of one of the braces to the top member of the other anchor.

2,659,619

RESILIENT CONNECTION

Floyd F. Kishline and Rees H. Phelps, Kenosha, Wis., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application January 24, 1947, Serial No. 723,976
6 Claims. (Cl. 287—85)



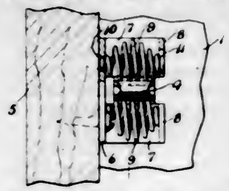
1. A resilient connection comprising spaced support members having aligned apertures, a bolt extending through said apertures, a resilient sleeve telescopically positioned on said bolt and having radially extending flanges adjacent the inner sides of said support members, a longitudinally split cylindrical member surrounding said resilient sleeve and having internally tapered end portions, tapered plugs telescopically positioned around said sleeve adjacent the inner sides of said flanges and pressed into said tapered end portions of said cylindrical member to expand same, and a supported member telescopically positioned around said cylindrical member.

2,659,620

FRICTION LATCH

Herman Ter Meer, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan

Application October 16, 1950, Serial No. 190,271
4 Claims. (Cl. 292—15)



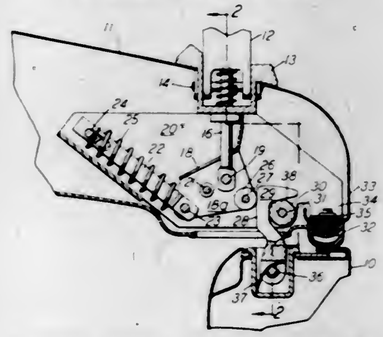
3. In a structure of the class described, a support having connected spaced parallel members,

2,659,621

LATCH MECHANISM

Edwin B. Jacobson, Grand Rapids, Mich., assignor to Crampton Manufacturing Company, a corporation of Michigan

Application January 7, 1950, Serial No. 137,453
5 Claims. (Cl. 292—240)



2. A latch mechanism for a container door comprising: keeper means mounted on said container and having an engaging portion adapted for lateral movement with respect to the plane of said door; means forming a holding surface mounted on said door; and biasing means mounted on said door and disposed to urge said engaging portion into and maintain engagement with said holding surface when said door is adjacent closed position; and manually operated means for releasing said biasing means.

2,659,622

SHOCK AND SOUND ABSORBING VEHICLE WHEEL AND THE LIKE

Michael Watter, Philadelphia, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

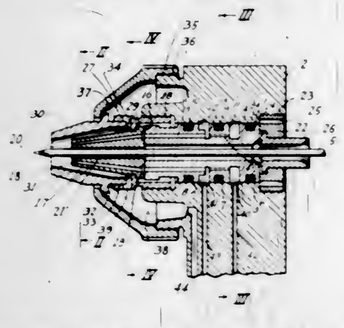
Application June 10, 1950, Serial No. 167,389
2 Claims. (Cl. 295—11)



1. A wheel assembly or the like adapted to be loaded mainly radially on one side, comprising a body portion and a rim portion provided with a tread which around its full circumference has progressive rolling compressive engagement with a cooperating element such as a track or the like, said body and rim portions having loose screw-threaded assembly association with each other with a plurality of ribs and grooves each leav-

ing a continuous space between them which radially over rib ends is of less depth than the depth of the threads, and a filler for said space comprising at least one thin metal liner closely fitting the threads of one of said portions and a main body of vulcanized rubber bonded thereto and to an adjacent surface at its other side and held under compression between the body and rim portions.

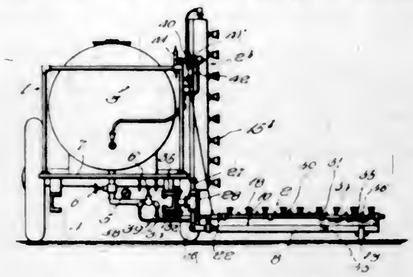
2,659,623
GUN CONSTRUCTION FOR GAS BLAST SPRAYING HEAT-FUSIBLE MATERIALS
Charles K. Wilson, East Williston, N. Y., assignor to Metallizing Engineering Co. Inc., Long Island City, N. Y., a corporation of New Jersey
Application December 7, 1948, Serial No. 64,006
10 Claims. (Cl. 299—28.8)



1. Improvement in gun construction for gas blast spraying heat fusible materials comprising a gas head for said gun having a first portion with a substantially cylindrical bore surface and a second portion with a substantially cylindrical outer surface substantially fitting said bore surface, first gas duct means for combustible gas and second gas duct means for combustion supporting gas in each of said first and second portions, each of said duct means terminating at one of said surfaces with said first duct means in said first and second portions in gas passing registry with each other and said second duct means in said first and second portions in gas passing registry with each other, at least one annular groove on at least one of said surfaces between the terminal portions of said first and second gas duct means thereon, at least one resilient packing means in said groove compressed therein between said first and second portions, and means for removably locking said second portion in substantially fixed gas duct registry position with said first portion.

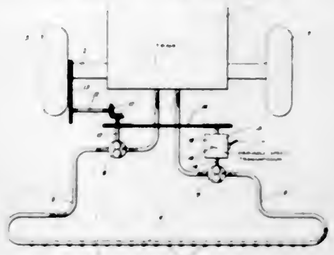
2,659,624
SPRAY BOOM
Albert W. Harz, Orlando, Fla.
Continuation of application Serial No. 663,081, April 18, 1946, which is a division of application Serial No. 566,214, December 1, 1944. This application February 12, 1952, Serial No. 271,144
12 Claims. (Cl. 299—41)

1. For use with a vehicle carried spraying apparatus, an elongated low carried spray boom having a spray pipe carried thereby and extending generally lengthwise thereof, said spray pipe having spaced upwardly directed discharge nozzles, said boom comprising a channeled guard for the spray pipe, including a front or nose portion and top and base portions extending rearwardly from the nose portion, and having an elongated opening located rearwardly of the nose portion, to permit discharge of spray from the nozzles, the base portion of the guard extending



beneath the spray pipe and nozzles and serving to protect them from the underlying ground surface and the top portion serving to protect from low lying limbs or branches during the forward movement of the boom.

2,659,625
ASPHALT SPREADING DEVICE
Ferdinand Gunner Gramatky, West Sacramento, Calif.
Application July 27, 1951, Serial No. 238,813
3 Claims. (Cl. 299—46)

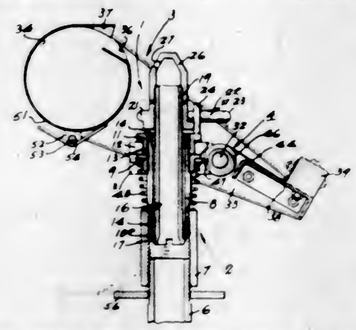


1. A spreading device for liquid road material, mounted on a traveling implement and comprising a supply tank, a spreader bar, a feed pipe connected between the tank and spreader bar, a first pump interposed in the feed pipe, a return pipe connected between the spreader bar and the tank, a second pump interposed in the return pipe, and means to drive said pumps at speeds proportionate to the speed of travel of the implement; the drive means for said second pump being adjustable to selectively vary the speed of drive thereof.

2,659,626
ROTATING SPRINKLER
Jacobus M. Landry, Summerland, British Columbia, Canada
Application November 10, 1950, Serial No. 195,105
7 Claims. (Cl. 299—64)

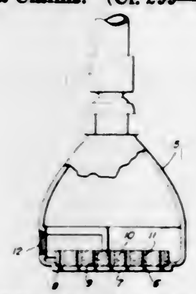
1. In a sprinkling device, a relatively stationary connection to a conduit, a sprinkling nozzle rotatably mounted in said connection, a device rotatable around said connection, oscillating arms pivoted on said device on a pivot axis generally at right angle to the axis of said nozzle, a hollow container on one end of said arms to receive the water from said sprinkling nozzle in one extreme position and to rock said device to another extreme position by gravity when filled with water

and to remain in said second extreme position until substantially emptied, a drain outlet on said container, a drain obstruction element adjustably supported on said container near said outlet, an abutment element on said conduit in path of said obstruction element to be abutted thereby when



the filled container is lowered into its said second extreme position thereby to regulate the rate of emptying of said container, and means to rotate said nozzle and said oscillating units around said connection every time said container is oscillated.

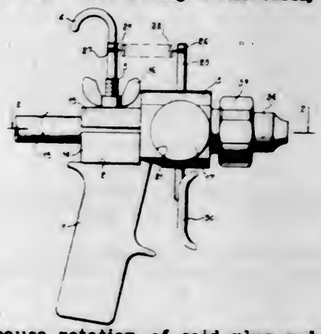
2,659,627
SHOWER HEAD
John A. McConnell, Newark, Calif., assignor of thirty per cent to Manuel L. Avila, Niles, Calif.
Application May 22, 1952, Serial No. 289,324
2 Claims. (Cl. 299—83)



1. In a shower device, a chamber having a flat bottom provided with spray openings therein and an annular internal shoulder on the bottom of the chamber forming a recess adapted to receive a cake of soluble material held immovable on said bottom in the recess against the shoulder, said cake having vertical passages registering with the openings of the chamber.

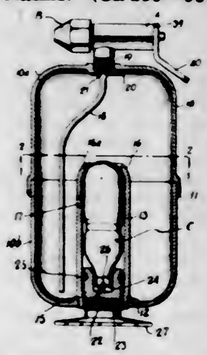
2,659,628
SANITARY SPRAY GUN
Howard Warren Beach, Far Hills, N. J., assignor to Eclipse Air Brush Co., Newark, N. J., a corporation of New Jersey
Application July 9, 1951, Serial No. 235,828
6 Claims. (Cl. 299—86)

6. A spray gun including a gun body in which is formed a transverse bore and a passage intersected by said bore, means for connecting a nozzle to one end of said passage, means for connecting a fluid supply to the other end of said passage, a rotary plug valve releasably fitted in said bore and having a transverse passage registering with said passage formed in said gun body upon rotation of said plug valve, said plug valve being removable through one end of said bore and having a portion through which a transverse hole is formed, a lever releasably passed through said hole in said portion of said plug valve and having opposite ends extending oppositely beyond said gun body and which swing transversely to said



bore to cause rotation of said plug valve, said gun body being constructed to provide clearance for said hole and said lever's ends, a spring connected to one of said lever's ends, and an anchor for said spring and positioned to cause said spring to bias said valve to turn in a predetermined direction, said spring being releasably connected between said anchor and said lever's end.

2,659,629
RECHARGEABLE PRESSURE SPRAY DEVICE
Thomas T. Graham, Houston, Tex., assignor of one-half to Ocie P. Alexander, Houston, Tex.
Application August 10, 1949, Serial No. 109,577
3 Claims. (Cl. 299—95)



1. In a rechargeable spray device having a liquid container with an outlet in its upper end and a control valve communicating with the outlet for controlling the discharge of liquid from the container through said outlet, a sleeve mounted wholly within the interior of the container having its inner end communicating with the interior of the container and its outer end secured to the inner wall of the container, the bore of the sleeve being open to atmosphere through an opening in the bottom of the container, whereby said container may be inverted and the liquid introduced through said sleeve, said sleeve having a lateral port in its wall intermediate its ends at a predetermined point for controlling the level to which the container may be filled, a recharging pressure medium cartridge insertable entirely within the sleeve, a closure for the open end of the sleeve for confining the cartridge therein, thread means connecting

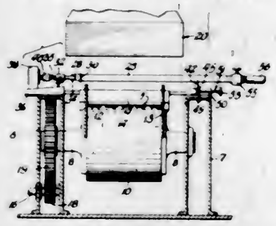
said closure to said sleeve to permit said closure to move inwardly toward said cartridge, and a puncturing element carried by the closure adapted to engage and puncture the end of the cartridge when the closure is threaded inwardly within the sleeve, said thread means holding said puncturing element within said cartridge after puncturing thereof, and said puncturing element having a vertical channel establishing communication from the interior of said cartridge to the exterior thereof whereby there is effected a release of the pressure medium from the cartridge into the interior of the container.

2,659,630

METHOD AND APPARATUS FOR DISTRIBUTING VISCOUS LIQUIDS AND HEAVY SLURRIES

John Walton Angstadt, Kenmore, N. Y., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware

Application June 8, 1950, Serial No. 166,832
7 Claims. (Cl. 299—106)



1. A distributing feeder for viscous liquids and heavy slurries, comprising a pair of generally horizontal pipes revolvably fitted one within the other and each having an end projecting beyond the other pipe, means non-rotatably supporting one of said pipes and connected to the projecting end thereof, said one of said pipes having the lower part of its periphery provided with at least one opening extending a substantial distance along the length thereof and the other of said pipes being provided with at least one opening also extending a substantial distance along the length thereof and arranged to register with a substantial extent of the length of said first opening, a stuffing box secured to the end of said outer of said pipes from which the inner of said pipes projects and surrounding said projecting end of said inner of said pipes, a continuously rotating driver connected to said projecting end of said other of said pipes and arranged to rotate continuously said other of said pipes relative to said one of said pipes, and means connected to said projecting end of said one of said pipes and arranged to supply the material to be distributed to the inner of said pipes, said opening in said other of said pipes being of serpentine form whereby limited portions of said openings are in register at any one time to provide a through opening traveling lengthwise of said pipes as said pipes rotate relative to each other.

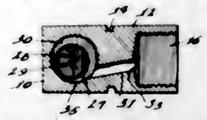
2,659,631

CENTRIFUGAL LIQUID NOZZLE

William L. Wilmes, Chicago, Ill., assignor to Binks Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application September 19, 1950, Serial No. 185,519
1 Claim. (Cl. 299—114)

A spray nozzle comprising a body having therein a circular whirling chamber axially aligned with a discharge outlet at one side thereof, a circular control chamber of smaller diameter than the whirling chamber at the other side of said whirling chamber and eccentric thereto, said whirling chamber having an inlet passage leading thereto tangentially to inject liquid into the whirling chamber for discharge through said discharge outlet in whirling form, said control chamber having at its juncture with the whirling chamber an annular surrounding shoulder of



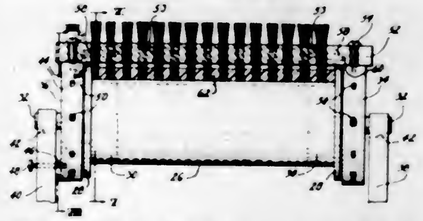
non-uniform width throughout its circumference constructed and arranged to provide a uniform flow of liquid through said discharge outlet with minimum wearing away of the walls defining said chambers, said control chamber and shoulder being formed and arranged whereby liquid is discharged from the inlet passage into the whirling chamber adjacent that portion of said shoulder having a relatively small width.

2,659,632

METHOD OF MAKING BRUSHES

William F. Enchelmaier, Cedar Grove, N. J.

Application February 9, 1948, Serial No. 7,243
11 Claims. (Cl. 300—21)



1. The method of making a cored brush in which the bristles are affixed to the core at at least two sectors displaced from each other at a substantial angle around the periphery of the brush, which comprises positioning bristles on the core in one sector thereof, depositing curable bonding material on the core in such sector, the bonding material contacting the portion of the bristles adjacent the core, partially curing the thus deposited bonding material so that it becomes self-sustaining and holds the bristles in that sector in position during the subsequent brush-forming operations, repeating such steps of positioning the bristles, depositing curable bonding material on the core, the bonding material contacting the portion of the bristles adjacent the core, and partially curing the deposited bonding material at another sector displaced at a substantial angle around the periphery of the brush from the first sector, and then completing the curing of the bonding material in all sectors of the brush thus formed.

2,659,633

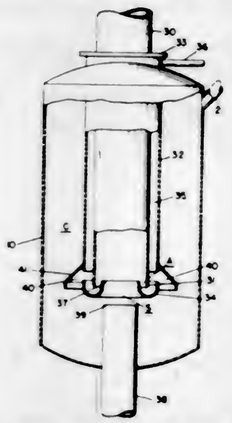
SYSTEM FOR ELEVATING CONTACT MATERIAL

William L. McClure, Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application January 2, 1952, Serial No. 264,472
3 Claims. (Cl. 302—53)

1. Apparatus for elevating contact material from a lower chamber to an upper chamber which

comprises an upright elevating conduit having an open inlet end extending through the top of said lower chamber to be positioned therewithin and its upper end extending into the upper chamber, means for supplying contact material to the lower chamber, a sleeve having an upper closed end with a lower open end positioned about the lower portion of the elevating conduit providing a lifting fluid supply space therewith, said sleeve lower end portion curving laterally inwardly in spaced relation and below the inlet end of the conduit and then upwardly providing a contact material nozzle extending into the conduit inlet



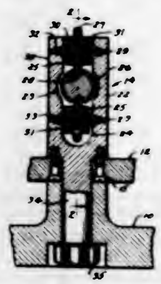
end and an annular fluid space therewith, said sleeve having a circumferential apertured area above its open end, means for supplying a fluid to said lifting fluid space about the conduit for passage downwardly thereof, said apertured area in the sleeve providing for lateral passage of a portion of the fluid from the space in streams, baffle means exteriorly of the conduit and above the apertured area to direct the contact material through the nozzle into the inlet end of the elevating conduit to be picked up by the balance of the elevating fluid from said lifting fluid supply space through said annular fluid space around the nozzle.

2,659,634

LEAD SCREW SUPPORT FOR STRAIGHT LINE COMPUTERS

Boris S. Maximoff, Chicago, Ill., assignor to the United States of America as represented by the Secretary of the United States Air Force

Application March 20, 1952, Serial No. 277,682
3 Claims. (Cl. 308—6)



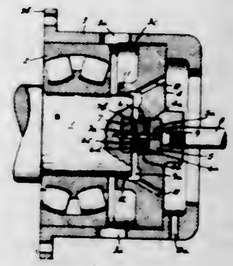
1. A lead screw with an improved support which comprises two spaced apart shaft supporting uprights, a lead screw extending between and beyond said uprights, said lead screw having opposite V grooves extending longitudinally, two small shafts normal to said lead screw, one above and one below said lead screw, two rollers medially positioned, one on each shaft, each roller having a medial flange rounded on the periphery to contact the sides of said V groove, both shafts being held in said uprights by their extreme outer ends only whereby opposite pressure on said shafts by said rollers tending to force said rollers apart will spring said shafts, the distance between the centers of the shafts at their outer ends being slightly less than the distance between the centers of the rollers, and antifriction bearings having their inner races fast on said shafts and their outer races fitting closely in said rollers, whereby the lead screw is held against play both horizontally and vertically, a minimum of the externally threaded area of the lead screw is taken by the V grooves, and the slightly sprung shaft maintains resilient contact of the rollers in the V grooves.

2,659,635

THRUST BEARING

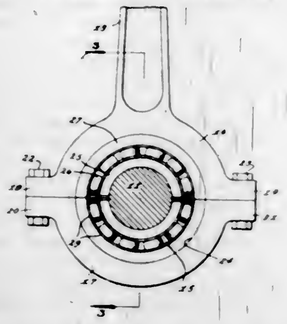
Darle W. Dudley, South Peabody, Mass., assignor to General Electric Company, a corporation of New York

Application November 20, 1951, Serial No. 257,349
10 Claims. (Cl. 308—172)



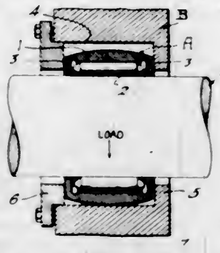
1. A thrust bearing for taking axial loads on a rotating shaft comprising a support member disposed adjacent and spaced axially from an end surface of the shaft and defining a central recess coaxial with the shaft, a thrust plate of hard material having high compressive strength disposed in said recess and having at least one radially extending lubricant supply groove in the face of the plate adjacent the shaft end, a thrust bearing disk of hard material with high compressive strength interposed between the thrust plate and the end of the shaft, said thrust disk having a plurality of circumferentially spaced radially extending grooves in the face thereof abutting the thrust plate, said bearing disk grooves having at least one side wall disposed at an acute angle to the face of the disk and curving smoothly to merge therewith, the disk surface between grooves defining sector-shaped thrust bearing surfaces, and means for supplying lubricating liquid under pressure to said supply groove, whereby relative rotation between the thrust bearing disk and thrust plate causes lubricant from the circumferentially spaced radial grooves to be dragged into the clearance space between the thrust plate and said thrust surfaces, the radial supply groove in the thrust plate serving to replenish the lubricating film on the thrust surfaces at least once during each revolution thereof.

2,659,636
ANTIFRICTION BEARING ASSEMBLY
Ben W. Wheelis, Burnet, Tex.
Application September 22, 1950, Serial No. 186,244
1 Claim. (Cl. 308—179)



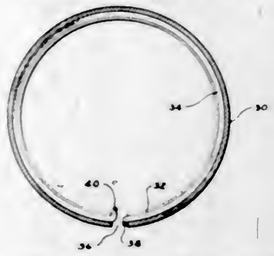
In an anti-friction bearing adapted to be circumposed and clamped upon a crankshaft journal by the opposed sections of a connecting rod bearing box, an inner race consisting of a pair of semicircular sections having plates on their opposite ends provided with dowel holes, said inner race sections being arranged to directly engage the crank journal, a bearing cage consisting of a pair of semi-circular cage sections having plates on their opposite ends provided with dowel holes, said cage sections including spaced ball bearings, the outer sides of the inner race sections being formed with grooves said cage sections extending around the outer sides of said inner race sections, with said ball bearings engaging said grooves, the cage being rotatable around said inner race, dowels engaging the dowel holes in the plates at the adjacent ends of both the inner race sections and the cage sections, and an outer race consisting of semicircular sections surrounding said cage, the outer race sections being formed with grooves in their inner sides receiving the adjacent sides of the ball bearings, said outer sections being arranged to be clamped in end to end relation around said cage.

2,659,637
ROLLER BEARING FOR COMPENSATING SHAFT MISALIGNMENT
Victor L. Barr, Philadelphia, Pa., assignor to Roller Bearing Company of America, Trenton, N. J., a corporation of New Jersey
Application June 14, 1950, Serial No. 168,103
5 Claims. (Cl. 308—207)



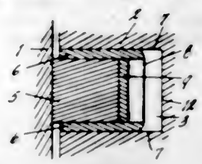
1. A bearing comprising a race ring having a cylindrical race way and rollers cooperative with the race way, a peripheral surface of the race ring being relieved from a zone intermediate its length to each end of the ring, a shaft extending through the bearing, a bearing housing having a recess within which said race ring is firmly secured against rocking movement with clearance between the end portions of the outer periphery of the race ring and the wall of said recess so that the end portions of said race ring will be deformed in a radial direction upon misalignment or deflection or off-center loading of said shaft, thereby to partially relieve the ends of the rollers of the load on the bearing at the zone of deflection and transferring the load toward the center of the length of the rollers.

2,659,638
PISTON RING
Ernst Mahle, Baden Stuttgart, Wurttemberg, Germany
Application November 1, 1950, Serial No. 193,489
2 Claims. (Cl. 309—29)



1. A light metal piston ring comprising a one piece light metal ring body, a groove in the inner circumferential face of said light metal body, a heavy metal spring member mounted in said groove and being at least partially enclosed by said body, said spring member having a rectangular cross-section and constituting a body of uniform bending resistance, said ring body being split with the free ends of said spring member extending, respectively, inwardly and outwardly through said split, and said body constituting the major bulk of said ring and having surfaces through which said body serves as the principal heat conducting medium between a piston and a cylinder wall.

2,659,639
PISTON RING ASSEMBLY AND RING SUPPORT AND EXPANDER MEMBER
Hugo Anderson and Harold P. Phillips, Hastings, Mich., assignors to Hastings Manufacturing Company, Hastings, Mich.
Application April 29, 1952, Serial No. 284,916
8 Claims. (Cl. 309—29)



1. In a piston ring assembly the combination of a split annular combined support and expander members of outwardly facing channel section comprising spaced flanges and an integral web connecting their inner edges and adapted to be disposed in a piston ring groove in radially spaced relation to the bottom thereof and with its ends in abutting mutually supporting relation and with its flanges in axial supported relation to the side walls of the groove and with their peripheral edges within the side walls of the groove, the web of the member having a plurality of angularly spaced integral spring piston ring supporting tongues struck radially outward therefrom, the tongues being free at one end and integrally joined to the web at the other and being of a width approximating the distance between the flanges, and a split resilient expansible cylinder wall contacting element disposed between the flanges in axial supported relation to the flanges and in radial supported relation to said spring tongues.

2,659,640
CONNECTOR AND SUPPORT FOR TABLES
Erick L. Lindman, Washington, D. C.
Application December 14, 1949, Serial No. 132,815
2 Claims. (Cl. 311—4)



1. A connector for a pair of tables arranged in abutting relationship and having depending aprons at their adjacent edges, comprising a pair of legs hingedly connected together inwardly from their ends, said legs being of a thickness substantially equal to the combined thicknesses of said aprons and movable to a position to be engaged at their upper ends in direct supporting contact therewith, and clamping members rigidly secured to the opposite side faces of said legs and projecting beyond the ends of the latter to clampingly engage the opposite faces of said aprons.

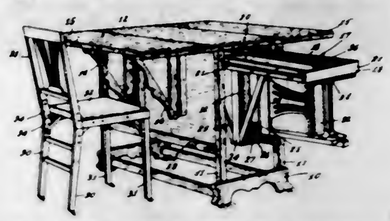
2,659,641
SLIDING TABLE TOP
Karl J. Draxler, Los Angeles, Calif.
Application June 30, 1951, Serial No. 234,591
1 Claim. (Cl. 311—35)



A sliding table top device comprising a relatively stationary sub-top and a set of spaced brackets secured to the underside of the sliding table top, each of said brackets comprising a unitary metal member having a base having a flat upper surface and a downwardly offset arm projecting laterally from said base, each of said arms having a substantially flat upper surface substantially parallel to said flat upper surface of its base and each of said arms having a thickness which tapers from a greater value at the inner end of said arm to lesser values towards the outer end of said arm, each of said bases having an upright aperture there-through for fastening means extending into said table top, each of said arms extending freely at any and all points under said sub-top for horizontal sliding movement of said table top.

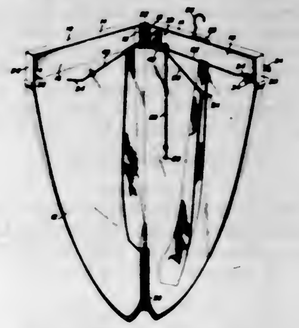
2,659,642
TABLE
Paul Records, Elwood, Ind.
Application November 9, 1949, Serial No. 126,390
1 Claim. (Cl. 311—103)

In a table, a floor-supported center section having a top, parallel walls extending downwardly from said top, a slide supported for sliding movement beneath said top and between and parallel to said walls, means on said slide for supporting a folded chair, and a drop leaf pivotally



mounted on said center section adjacent to the top thereof for swinging movement between horizontal and vertical positions about a horizontal axis parallel to the direction of slide movement.

2,659,643
TIE RACK
Eugene G. Friesz, Burns, Oreg.
Application August 30, 1950, Serial No. 182,326
5 Claims. (Cl. 312—4)

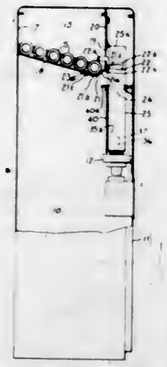


1. A tie rack comprising a case having a rigid upper portion and a pliable lower portion, support rods in said case for holding ties, said upper portion including complementary hinged sections each having a top, side and pair of end walls, said upper portion constituting a closure for the upper end of the flexible lower portion, said upper portion having a bracket therein at one end thereof, said support rods being hingedly mounted on said bracket, said bracket being secured in one of said sections on an end and side wall thereof.

2,659,644
DISPENSING MACHINE LOADING MECHANISM
Edward L. Hadden, Westfield, N. J., assignor to Crist Engineering Company, Plainfield, N. J., a corporation of New Jersey
Application December 6, 1950, Serial No. 199,496
12 Claims. (Cl. 312—44)

1. A cup loader for a cup drop mechanism of a dispensing machine comprising, a storage compartment adapted to contain stacks of nested cups, said compartment being defined by a downwardly inclined floor portion, side wall portions, and a front wall portion extending transversely the direction of incline of said floor portion, a stack delivery passageway at the intersection of the planes of said floor and front wall portions, a door element hinged to one of said portions operative normally to maintain the said

passageway closed, a movable cup-stack receiving chute operative when in one position substantially to align with said passageway and when in another position to align with the cup-drop mechanism of the dispensing machine, said receiving chute being pivotally supported intermediate its ends, means tending normally to bias



the said trough to a position aligned with said storage compartment passageway, said means being overcome on the receiving into the chute of a stack of cups whereby the chute is caused to swing by gravity about its pivot into alignment with the cup-drop mechanism, and chute actuated means operative to open said door when the chute is aligned with the passageway.

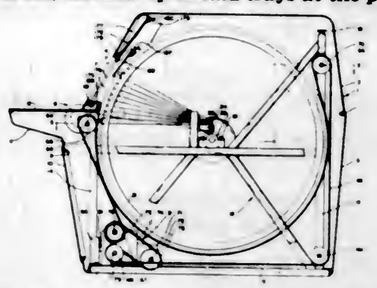
2,659,645
DESK WITH A SHIFTABLE TOP SECTION
Irving R. Cornish, Elmhurst, Ill.
Application December 31, 1948, Serial No. 68,456
2 Claims. (Cl. 312—208)



1. A desk of the class described comprising, a platform supported at a height normal for use of key-operated machines, and a top formed of rear and front sections at a height normal for non-machine use, said rear top section being permanently fixed rearwardly of said platform, said front top section being shorter than said rear top section and being shiftable lengthwise of said desk to expose either end of said platform at the forward corners of said desk to provide alternative supports for a hand-operated machine, and a machine mount adapted to be adjustably attached to the exposed portion of said platform.

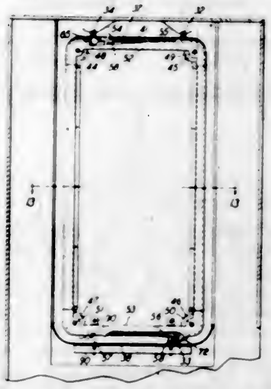
2,659,646
SELECTIVELY OPERATED ROTARY DRUM FILE
Charles E. Attwood, Chicago, Ill., assignor to Acme Visible Records, Inc., Chicago, Ill., a corporation of Delaware
Application September 29, 1950, Serial No. 187,523
6 Claims. (Cl. 312—223)

1. A rotary record card-carrying device comprising in combination, a housing having an operator's station, a rotary drum journaled for rotation in said housing with a portion of its periphery disposed adjacent said operator's station, a plurality of record card-carrying trays mounted upon said rotary drum, said trays being disposed at an angle to the periphery of the drum and being movable outwardly from the periphery of said drum, handles upon said trays at the periph-



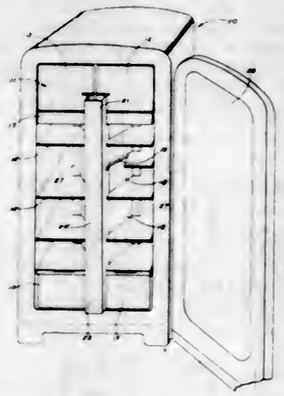
ery of the drum, and means for rotating said rotary drum to bring a predetermined tray adjacent said operator's station whereby said tray may be moved by said operator to a position rendering the record cards carried by said tray accessible, said means comprising a flexible endless driving belt which wraps about a predetermined angle of the periphery of the drum and contacts the handles of predetermined of said trays.

2,659,647
CONVEYING MECHANISM
William Bronson Lyon, Grand Rapids, Mich.
Application May 17, 1951, Serial No. 226,912
7 Claims. (Cl. 312—234)



1. In a storage and display cabinet having track means disposed in a rectangular closed circuit in a vertical plane, article-supporting means including three rod means each provided with means for engaging said track means, endless flexible tension transmitting means, guide means for said tension transmitting means establishing a path of movement thereof substantially parallel to said closed circuit, and drive means for said tension transmitting means establishing a direction of movement thereof, the combination comprising: first and second rod-engaging means carried by said tension transmitting means, said first and second rod-engaging means each including first abutment means adapted to apply force to said rod means only in a direction opposite to the direction of movement of said tension transmitting means, and also including second abutment means, said second abutment means being positioned behind said first abutment means and laterally movable with respect to said tension transmitting means to and from rod-engaging position; and first and second rail means disposed to bear against a portion of the second abutment means of said first and second rod-engaging means respectively to laterally position the same, said first and second rail means being formed to cause engagement of only one of said second abutment means at particular diametrically opposite corners of said closed circuit, and the other of said second abutment means at the other diametrically opposite corners.

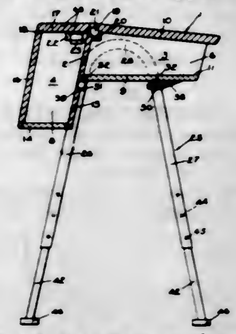
2,659,648
PACKING BRACE
Carl G. Robbins, Des Plaines, Ill.
Application September 16, 1950, Serial No. 185,185
4 Claims. (Cl. 312—237)



1. In combination with a refrigerator having at least one freezer compartment door, a meat tray beneath said door, a plurality of shelves beneath said tray and at least one vegetable drawer beneath said shelves and closed by an insulated door, a beam member extending vertically in front of said freezer compartment door, over said tray, across the front of said shelves and in front of said drawer, and wing members integral therewith extending rearwardly and laterally between each of said shelves and in engagement therewith to prevent movement of the shelves, said beam member engaging said door when closed to hold the beam member in position.

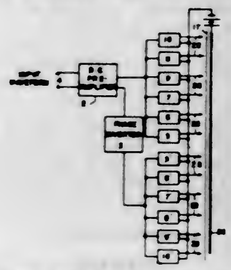
2,659,649
SCHOOL DESK
Ernest J. Kump, Jr., San Francisco, Calif.
Application May 2, 1949, Serial No. 90,866
12 Claims. (Cl. 312—249)

1. A school desk comprising a receptacle for school books and the like having a top provided with a working surface, a bottom, and a pair of opposed vertical side walls, a generally vertically extending dividing wall extending between said opposed side walls dividing said receptacle into a first compartment and a second compartment, legs secured to said receptacle for supporting the same above the floor with said working surface generally horizontal, the lateral side of said first compartment opposite said dividing wall being open for lateral insertion of books and the like into the same, an end wall at the side of said compartment opposite said lateral side of said first compartment defining the lateral side of said second compartment opposite said dividing wall, a closure over said second compartment hinged to the upper portion of said end wall along one edge thereof for swinging upwardly to a position uncovering said second compartment, said top and said closure being in substantially meeting relation at about the upper edge of said



dividing wall, a ledge along said last mentioned upper edge having an upwardly directed recess formed therein for pencils and the like, said recess being below said cover when the latter is in a position closing the upper side of said second compartment and being exposed for access thereto when said closure is swung upwardly to open position.

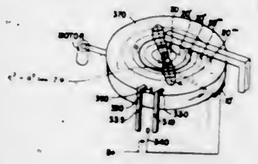
2,659,650
GRAPHIC RECORDER
Duncan N. MacDonald, Arcadia, Calif., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application August 19, 1952, Serial No. 305,164
7 Claims. (Cl. 346—34)



1. In a direct indicating oscillograph for recording electrical wave forms, an electrically sensitive paper, means for moving said paper longitudinally at a high speed, a platen mounted below and transverse to said paper, a comb, said comb mounted above and transverse to said paper, a plurality of styli, said styli mounted longitudinally in and depending from said comb closely adjacent to said paper, a direct current amplifier which receives and amplifies said electrical wave forms for recording, a plurality of trigger amplifiers, the inputs of said trigger amplifiers connected in parallel to the output of said direct current amplifier, a phase inverter, the input of said phase inverter connected to the output of said direct current amplifier, a second plurality of trigger amplifiers, the inputs of said second plurality of trigger amplifiers connected in parallel to the output of said phase inverter, the outputs of each of said trigger amplifiers connected to different ones of said styli and to said platen so that said outputs of all of said trigger amplifiers are completed across the gap

between said styli and said platen and through said paper, said trigger amplifiers biased so that each trigger amplifier passes current through its output when a voltage of a particular value or higher is applied to the input and ceases to pass current when the voltage applied to the input drops below said particular value, said particular value of voltage to which each trigger amplifier is biased being different for each trigger amplifier in each plurality of trigger amplifiers.

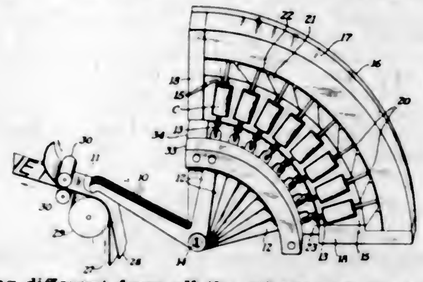
2,659,651
GRAPHIC RECORDER
Edward L. Benno, Skokie, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application March 9, 1953, Serial No. 341,029
6 Claims. (Cl. 346—34)



1. In a direct indicating oscillograph for recording electrical wave forms, an electrically sensitive paper having marked thereon a logarithmic scale, means for moving said paper longitudinally at high speed, a platen mounted below and transverse to the direction of movement of said paper, styli arranged in positions corresponding to said logarithmic scale on said paper and said styli mounted transversely above and adjacent to said paper and parallel to said platen, a plurality of amplifiers, means for applying an electrical wave form to said amplifiers, a source of biasing potential connected to said amplifiers and arranged to bias each of said amplifiers differently than the other to thereby allow said amplifiers to operate only on portions of said wave form corresponding to said biasing potentials, each of said amplifiers connected to corresponding ones of said styli to thereby produce a permanent logarithmic record of said electrical wave form on said paper in accordance with the traces left upon said paper by the passage of current from said styli to said platen.

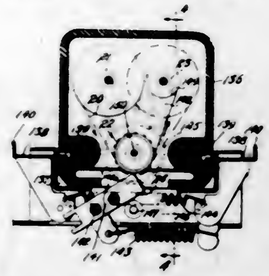
2,659,652
HIGH-SPEED MULTIPLEX RECORDING APPARATUS
Russell G. Thompson, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 18, 1950, Serial No. 174,423
7 Claims. (Cl. 346—50)

1. Multiple styli recording apparatus comprising a plurality of thin bell crank levers assembled in adjacent parallel planes for pivotal movement about a common axis, a stylus carried by the end of one arm of each bell crank lever, the lever arms carrying the styli occupying a plane which includes said common axis and the angle made by the two arms of each bell-crank lever



being different from all the others such that the other arms of the bell crank levers are radially and angularly disposed with respect to said common axis, and a plurality of electromagnetic devices associated with said other arms, respectively, for independently oscillating the bell crank levers about their common axis.

2,659,653
RECORD TAPE MAGAZINE
Freeman H. Owens, New York, N. Y.
Original application September 15, 1943, Serial No. 502,717, now Patent No. 2,514,086, dated July 4, 1950. Divided and this application July 1, 1950, Serial No. 171,731
2 Claims. (Cl. 346—136)



1. A magazine for record tape, comprising a casing having an opening in the bottom of the same, record tape spooling mechanism in said casing, including a platen roll in line with said opening and a spring tensioned retainer plate yieldingly engaged over said platen roll for pressing record tape over said platen roll and said retainer plate having an opening therein for admitting means for marking a record on tape passing about said roll beneath said retainer plate.

CHEMICAL

2,659,654
COMPOSITION FOR MANUFACTURE OF SAND CORES
John B. Tuttle, Pelham Manor, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 14, 1950, Serial No. 184,907
11 Claims. (Cl. 106—38.7)

1. A core oil composition comprising about 30 to 50% by weight, based on the total composition, of drying oil, 15 to 35% of an unsaturated clay-filtered polymer of cracked gasoline derivation and 5 to 20% by weight of a viscous mineral oil of at least 100 and not more than 500 S. S. U. viscosity of 210° F.

2,659,655
PRODUCTION OF FLUORIDE-FREE URANIUM OXIDE
Roger G. Sweet, Bexley, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
No Drawing. Application March 12, 1949, Serial No. 82,481
2 Claims. (Cl. 23—14.5)

1. Process for obtaining urano-uranic oxide which comprises forming a concentrated aqueous solution of uranium oxyfluoride, adding one of the group consisting of ammonium fluoride and ammonium acid fluoride to said solution in an amount in excess of three moles per mole of uranium oxyfluoride present in said solution, forming a granular, easily filtered precipitate of the double fluoride salt ($3NH_4F.UO_2F_2$), said precipitate containing at least 99.5% of the uranium originally present as uranium oxyfluoride in said solution, separating said precipitate and calcining it in the presence of steam to form urano-uranic oxide substantially free of fluorides.

2,659,656
PROCESS FOR THE RECOVERY OF POTASSIUM FROM SEA WATER AND SALINE AQUEOUS SOLUTIONS
Endre Qvie Berner, Slemdal, near Oslo, and Jacob Kielland, Hereya, near Porsgrunn, Norway, assignors, by mesne assignments, to A/S Norduco, Oslo, Norway, a corporation of Norway
No Drawing. Application June 14, 1951, Serial No. 231,666
In Norway February 13, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires February 13, 1960
11 Claims. (Cl. 23—38)

1. A process for the recovery of a potassium salt from sea water and aqueous saline solutions containing dissolved potassium salts, comprising the steps of adding a water soluble salt of an unsymmetrically highly nitrated secondary aromatic amine selected from the group consisting of 2,4,6,2',4',6' hexanitro 3 halo diphenylamine, 2,4,6,3',6' pentanitro diphenylamine, 2,4,2',4',6' pentanitro diphenylamine, alkyl-substituted pentanitro diphenylamine, halogen-substituted pentanitro diphenylamine, alkoxy-substituted pentanitro diphenylamine and carboxy-substituted pentanitro diphenylamine, to the saline solution to precipitate the potassium as a sparingly soluble salt of said highly nitrated secondary aromatic amine, separating the precipitate from the mother liquor, reacting the separated potassium salt precipitate with an acid to liberate the potassium salt of said acid in solution and recovering the highly nitrated secondary aromatic amine.

2,659,657
METHOD OF MAKING INORGANIC FLUORINE-CONTAINING COMPOUNDS OF ALUMINUM
William A. La Lande, Jr., Plymouth Meeting, and Isadore Mockrin, Philadelphia, Pa., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application August 30, 1952, Serial No. 307,377
11 Claims. (Cl. 23—88)

1. The method of making fluorine-containing aluminum compounds comprising heating a substantially dry mixture of sodium fluosilicate and aluminum sulfate to a temperature of at least 200° C. but below that at which the mixture melts.

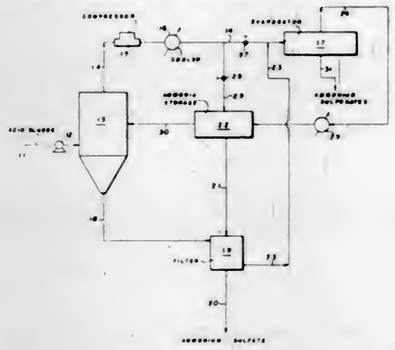
2,659,658
PROCESS OF PRODUCING METAL FLUORIDES
William A. La Lande, Jr., Plymouth Meeting, and Isadore Mockrin, Philadelphia, Pa., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application August 30, 1952, Serial No. 307,378
15 Claims. (Cl. 23—88)

1. The method of making metal fluorides comprising preparing a substantially dry mixture of an alkali metal fluosilicate with a metal sulfate wherein the metal is a metal other than an alkali metal and heating said mixture to a temperature of at least 200° C., but below that at which the mixture melts, until the reaction is substantially complete as indicated by substantially complete cessation of evolution of SiF_4 gas.

2,659,659
AMMONIUM SULFATE PRODUCTION
Albert J. Shmidl, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application December 7, 1950, Serial No. 199,667
7 Claims. (Cl. 23—119)

1. A method for producing ammonium sulfate from sulfuric acid sludge containing dissolved carbon compounds which comprises introducing said sulfuric acid sludge into a body of anhydrous liquid ammonia maintained in a reaction zone at a reaction temperature below 125° F. reacting said sulfuric acid sludge and anhydrous liquid ammonia to form ammonium sulfate crystals, maintaining unreacted liquid ammonia in the reaction zone at all times and washing the ammonium sulfate crystals formed in the reaction zone continuously with said unreacted anhydrous liquid ammonia, removing from said reaction zone as product a slurry of ammonium sulfate crystals in a liquid ammonia solution of ammonia soluble carbon compounds, said slurry containing at least

one volume of unreacted ammonia for each volume of sulfuric acid sludge charged to the reaction zone to form the ammonium sulfate crystals



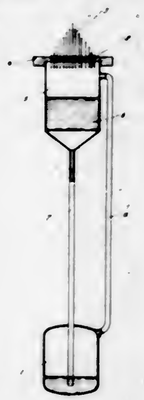
in said slurry and separating ammonium sulfate crystals substantially free of carbon from said slurry.

2,659,660

METHOD AND APPARATUS FOR THE MANUFACTURE OF ALUMINA

André Sablé, Marseille, France, assignor to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine, Paris, France, a corporation of France

Application November 16, 1951, Serial No. 256,709
8 Claims. (Cl. 23—143)



1. A process for treating a soda-contaminated monoclinic alumina hydrate as obtained from Bayer process prior to calcination comprising heating the impure alumina above 180° C. with water under pressure to decompose the monoclinic crystals and recrystallize the alumina as a rhombohedral alumina and thereby to free soda as a result of the change in crystalline structure, separating the alumina thus obtained, and recovering the resulting alumina.

2,659,661

PROCESS FOR THE PRODUCTION OF MAGNESIUM HYDROXIDE

Hellmuth K. Keitel, Kassel, Germany

No Drawing. Application July 13, 1951, Serial No. 236,688
14 Claims. (Cl. 23—201)

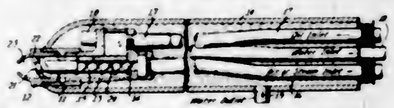
1. Process for the production of magnesium hydroxide from a cooled mother liquor containing a magnesium salt and an ammonium salt in amounts corresponding to the residue after cooling, which comprises introducing the motor liquor containing said magnesium and ammonium salts simultaneously with an excess of ammonia into a further portion of mother liquor, precipitating magnesium hydroxide, stopping said precipitation when about 66% of the theoretical amount of magnesium hydroxide has been precipitated, filtering off the precipitated magnesium hydroxide, expelling excess ammonia from the resulting liquor, then adding thereto a solid magnesium salt of the same identity as the magnesium salt contained in said starting mother liquor in an amount in excess of the ammonium salts present in said mother liquor, precipitating an ammonium-magnesium double salt, cooling the mixture and separating said double salt and recycling said mother liquor to said further portion of liquor.

2,659,662

PROCESS FOR PRODUCING CARBON BLACK

George L. Heller, Monroe, La., assignor to Columbian Carbon Company, New York, N. Y., a corporation of Delaware

Application November 14, 1950, Serial No. 195,529
4 Claims. (Cl. 23—209.4)



1. In the process of producing carbon black by the decomposition of a hydrocarbon by which a combustible mixture of a fluid hydrocarbon fuel and an oxygen-containing gas is blasted into one end of an elongated reaction chamber, delineated by thick refractory side walls, and is burned therein to form a violently turbulent stream of hot blast flame gases passing longitudinally through the chamber at a temperature in excess of that at which hydrocarbons are decomposed to form carbon black and the hydrocarbon to be decomposed is separately injected into the turbulent stream of hot gases passing through the chamber at a point removed from the point of entry of said gases to the chamber and in which the side wall of the chamber becomes highly heated, the steps of passing a normally liquid hydrocarbon as a confined, substantially liquid stream through the hot side walls of the chamber in heat exchange relation therewith at a point downstream from the zone of combustion, atomizing the resultant preheated stream of the hydrocarbon and injecting it into the turbulent gas stream and passing a liquid cooling medium in thermal shielding relationship with the stream of hydrocarbon passing through the side wall of the chamber and in a direction generally countercurrent to the direction of flow of the stream, and thereby maintaining the temperature of the hydrocarbon below that at which substantial carbon-forming decomposition thereof is effected up to the point where it is injected into the chamber.

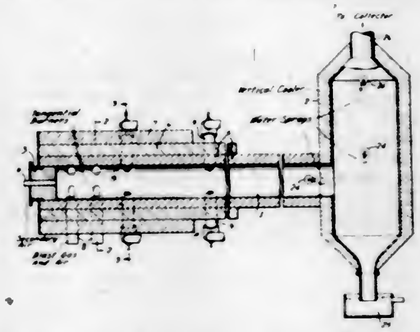
2,659,663

PROCESS FOR PRODUCING CARBON BLACK

George L. Heller, Monroe, La., assignor to Columbian Carbon Company, New York, N. Y., a corporation of Delaware

Application November 14, 1950, Serial No. 195,530
1 Claim. (Cl. 23—209.4)

In the process of producing carbon black by which a combustible mixture of a fluid hydrocarbon fuel and an oxygen-containing gas is blasted into one end of an elongated cylindrical reaction chamber delineated by thick refractory side walls in a direction substantially tangential to the chamber and burned therein to form a turbulent swirling stream of blast flame gases passing longitudinally through the chamber at a temperature in excess of that at which hydrocarbons are decomposed to form carbon black and a hydrocarbon to be decomposed is separately injected into the swirling gases at a point removed from the point of entry of said gases to the chamber and in a substantially radial



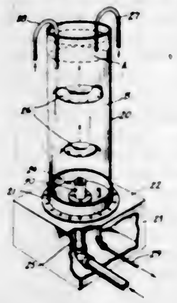
direction, the steps of passing a normally liquid hydrocarbon as a confined substantially liquid stream through the hot side walls of the chamber at a point downstream from the zone of combustion, passing an atomizing gas in heat exchange relation with the chamber side walls and in thermal shielding relationship with the stream of hydrocarbon, whereby the atomizing gas is strongly preheated, atomizing the liquid hydrocarbon by violent impact with the preheated atomizing gas and injecting the atomized hydrocarbon into the turbulent gas stream flowing through the reaction chamber.

2,659,664

VORTEX RING PROCESS FOR LIQUID-LIQUID EXTRACTION

William Robert Works, Washougal, Wash., and Frank A. M. Buck, Concord, Calif.

Application August 30, 1950, Serial No. 182,305
5 Claims. (Cl. 23—310)



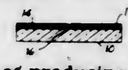
3. In the process of liquid-liquid separation, the step of projectingly launching one liquid as a separate body through the other as the continuous phase in the form of vortex rings of toroid section which separate body moves as a unit with translational motion through said other liquid.

2,659,665

RETICLES

William F. Parsons and Ezra C. Poling, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application October 27, 1950, Serial No. 192,468
7 Claims. (Cl. 41—41)



1. The method of producing a design on transparent lead glass and the like which comprises reducing the lead on and adjacent one surface of the glass to produce an opaque layer thereon and forming a design through the opaque layer to the unreduced clear glass thereunder.

2,659,666

STABILIZER FOR RESIDUAL OILS

Richard W. Sage, Fanwood, and Louis A. Jennings, Mountainside, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 10, 1949, Serial No. 126,704
2 Claims. (Cl. 44—78)

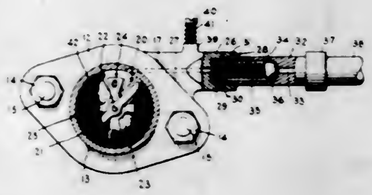
1. A bunker fuel oil containing a small amount of triphenyl carbinol sufficient to inhibit the formation of sediment within the fuel oil under conditions of normal storage.

2,659,667

APPARATUS FOR ECONOMIZING FUEL AND INCREASING POWER OUTPUT OF INTERNAL-COMBUSTION ENGINES

Enrique N. Boadet, Mexico City, Mexico

Application April 17, 1951, Serial No. 221,422
Claims priority, application Mexico November 15, 1950
2 Claims. (Cl. 48—180)



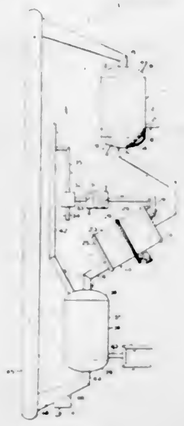
1. A gas mixer, comprising a flat body adapted to be disposed between a carburetor and a manifold, the body having a central opening, a fan supported on the flat body portion in line with the opening and actuated by suction through said manifold to atomize fuel therein, a passage formed in the flat plate tangentially and communicating with the central opening, a pipe communicating at one end with the passage and adapted to communicate at its opposite end with a gas tank above the level of the gas therein to admit gasified air from the tank to mix with the gaseous mixture drawn from the carburetor in advance of the fan, and an automatically operated one way valve to open the pipe under suction from the manifold and to close the pipe when the fan is at rest.

2,659,668

METHOD FOR GASIFYING COALS

Bertrand J. Mayland, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 12, 1949, Serial No. 115,209
4 Claims. (Cl. 48—206)



1. An improved method for gasifying organic material which comprises the steps of heating solid heat exchange material in a heating zone; gravitating said heated solid heat exchange material into a coking zone; continuously tumbling said heated solid heat exchange material in said coking zone while adding organic material thereto; decomposing said organic material to coke on the surface of said solid heat exchange material; gravitating said coke-covered solid heat exchange material into a gasification zone; passing steam and oxygen into contact with said coke-covered solid heat exchange material and gasifying said coked organic material; recovering resulting gaseous materials from said gasification zone; removing said solid heat exchange material from said gasification zone; and returning said solid heat exchange material to said heating zone.

2,659,669

COMPOSITION AND METHOD FOR THE PRODUCTION OF ALLOYS

Frank Alden Miller, Buffalo, N. Y., assignor to Hi-Loy Company, Inc., Buffalo, N. Y.

No Drawing. Application July 3, 1950, Serial No. 172,017
2 Claims. (Cl. 75—129)

2. A composition for addition to molten ferrous metals comprising an alloy which comprises 49% titanium, 49% columbium, 1% tellurium and 1% rhodium.

2,659,670

METHOD OF DEVELOPING ELECTROSTATIC IMAGES

Harold E. Copley, Worthington, Ohio, assignor, by mesne assignments, to The Haloid Company, Rochester, N. Y., a corporation of New York

No Drawing. Application June 6, 1950, Serial No. 166,549
3 Claims. (Cl. 95—1.9)

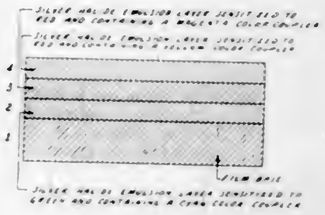
1. A method of producing an electrophotographic print from an electrostatic image comprising depositing a finely divided developer material on a surface bearing an electrostatic latent image in configuration conforming with such image, transferring deposited material in said configuration to a paper web and fusing the material to said web at a temperature below the char point of paper, the developer material consisting of a finely divided thermoplastic composition fusible below the char point of paper and comprising a colored pigment visible against the background of paper and uniformly distributed throughout a binder composed of a thermoplastic substantially non-tacky rosin-modified phenol-formaldehyde resin.

2,659,671

COLOR PHOTOGRAPHIC ELEMENT

Hans von Fraunhofer, London, England, and Honoré Verkinderen and Louis Meeussen, Mortsel-Antwerp, Belgium, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, and Chromart Film Industries, New York, N. Y.

Application March 31, 1949, Serial No. 84,724
2 Claims. (Cl. 95—2)



1. A photographic material comprising an assembly of a plurality of light-sensitive layers including a first red-sensitive layer containing a coupling material developable to yellow, a second red-sensitive layer containing a coupling material developable to magenta, and a blue-green-sensitive layer containing a coupling material developable to cyan, the layer containing the yellow coupler having a higher speed than the layer containing the magenta coupler.

2,659,672

DIAZOTYPE PHOTOPRINTING MATERIALS

Werner Paul Leuch, London, England, assignor to Hall Harding Limited, London, England, a corporation of Great Britain and Northern Ireland

No Drawing. Application December 21, 1948, Serial No. 66,579
Claims priority, application Great Britain January 9, 1948
5 Claims. (Cl. 95—6)

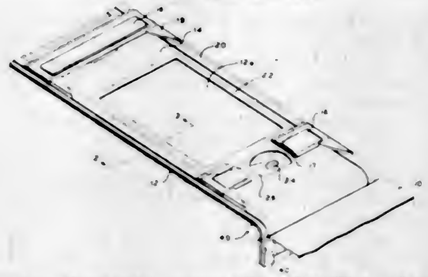
1. A light-sensitive layer for the production of a multi-colored diazotype photographic print which contains a coupling component, C, and two diazo compounds at least one, B, of which is a member of the group consisting of diazo anhydrides and diazo oxides which diazo compound is incapable of forming a dyestuff with said coupling component C but is capable of coupling with the decomposition product, D, produced from B by the action of light and another one, A, of which is capable of coupling with said coupling component C, the relative quantities of the said diazo compounds A and B being such that there is a substantial difference in their printing out speeds.

2,659,673

PHOTOGRAPHIC PRODUCT CONTAINING A STRIPPABLE MASK

Howard G. Rogers, Weston, and William J. McCune, Jr., Cambridge, Mass., assignors to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application February 3, 1948, Serial No. 6,058
5 Claims. (Cl. 95—88)



1. An elongated composite sheetlike photographic product comprising an elongated image-receiving layer for use in a photographic transfer process as image-receptive material for receiving a transfer image and having at least one image area portion on one surface thereof adapted to receive a transfer image, an elongated mask sheet, provided with at least one aperture, superposed on and secured to said surface of said image-receiving layer and overlying border portions of each said image area portion in a position to provide the border for a transfer print formed on said image area portion, each said aperture being slightly smaller in area than said image area portion and being registered with said image area portion so that the edges of the aperture are positioned to lie within the edges of said image area portion, and two layers of adhesive interposed between said mask sheet and said surface of said image-receiving layer and bonding said mask sheet and said image-receiving layer together and providing a strippable adhesive bond, a first of said adhesive layers covering the surface of said mask sheet which is closest to said image-receiving layer when said image-receiving layer and said mask sheets are in superposed relation, the second of said layers of adhesive covering the surface of said first layer of adhesive which is furthest removed from said mask sheet, said two layers of adhesive extending substantially coextensively of said surface of said mask sheet and of each other and said two layers of adhesive having a readily cleavable line of demarcation therebetween, said first layer of adhesive having a greater affinity for said mask sheet than it has for said second layer of adhesive and the second layer of adhesive having a greater affinity for said image-receiving layer than it has for said first-named adhesive layer.

2,659,674

METHOD OF TONING PHOTOGRAPHS AND COMPOSITION THEREFOR

Olan Robert Hyndman, Denver, Colo.

No Drawing. Application April 5, 1948, Serial No. 19,169
8 Claims. (Cl. 95—88)

1. A method of producing a multiple colored photographic image from an initial silver photographic image which includes reacting said initial image in a single immersion with a solution consisting solely of chromic acid and sodium thiosulphate in an amount with the ratio of chromic acid to sodium thiosulphate in the solution being adjusted so that the solution will convert certain portions of the image to silver chromate and will replace certain other portions of said image with chromium, the particular affect on each portion being in accordance with the density of the silver deposit in the various portions of the image.

2,659,675

METHOD OF STABILIZING FOAM FORMING ON MALT BEVERAGES AND BEVERAGES STABILIZED THEREWITH

Arnold B. Steiner, La Jolla, Calif., assignor to Kelco Company, San Diego, Calif., a corporation of Delaware

No Drawing. Application February 18, 1950, Serial No. 145,101
3 Claims. (Cl. 99—48)

1. The method of stabilizing the foam forming on malt beverages, which comprises dispersing in alcohol a moist, low viscosity alginic acid having a calcium content, as calcium oxide, not exceeding 2% by weight; adding to said dispersion from $^{15}/_{100}$ to $^{20}/_{100}$ of one stoichiometric equivalent of a basic sodium compound and thereby neutralizing from 15% to 20% of the carboxyl groups of said acid; expressing the alcoholic liquid from the partially neutralized acid and thereby substantially removing the alcohol-soluble impurities normally present in alginic acid; treating the resultant purified and partially neutralized acid with propylene oxide in excess of the stoichiometric equivalent of the carboxyl groups remaining free after said neutralization, and continuing said treatment until not less than 65% of the original carboxyl groups have been esterified, and adding the resulting product in relatively small amounts to the beverage whereby the persistence of the foam in pouring is lengthened.

2,659,676

INFANT FOOD

Hartley W. Howard, Hastings on Hudson, N. Y., and Julius F. Muller, Princeton, N. J., assignors to The Borden Company, a corporation of New Jersey

No Drawing. Application April 10, 1951, Serial No. 220,364
3 Claims. (Cl. 99—56)

1. An infant food comprising lactose, edible fats, and edible proteins, the lactose being present in larger proportion than the fats and the fats in larger proportion than the proteins, the fats containing not less than about 50 per cent of palm oil on the total weight of the fats, having an iodine number greater than that of cow's milk fat, but being oxidized when exposed to air at a lower rate than cow's milk fat under the same conditions of exposure.

2,659,677

RUBBER PROCESSING COMPOSITION

Walter A. Schulze, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application August 15, 1949, Serial No. 110,479
13 Claims. (Cl. 106—218)

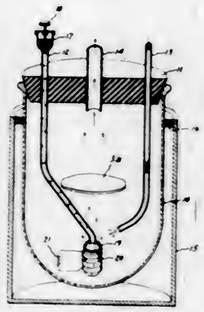
2. A rubber vulcanizing composition comprising an admixture of one part by weight of a liquid polymer of a conjugated diolefin having not more than 6 carbon atoms per molecule with 0.3 to 1 part of rosin acid.

2,659,678

TRANSPARENT LUMINESCENT SCREEN AND METHOD FOR PREPARING SAME

Dominic A. Cusano and Frank J. Studer, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application August 23, 1951, Serial No. 243,272
6 Claims. (Cl. 117—33.5)



5. The method of fabricating a transparent luminescent cathode ray tube screen which comprises the steps carried out at reduced pressure of depositing on a transparent base a film of metallic manganese by condensation of manganese vapor, converting said film to the sulfide of manganese and depositing on the resultant sulfide film an activated second film consisting of a compound made up of metal selected from the group consisting of zinc, cadmium and mixtures thereof chemically combined with non-metal selected from the group consisting of sulfur, selenium and mixtures thereof during and by a chemical reaction carried out at reduced pressure between vapors of the selected metal and selected non-metal adjacent the surface of said manganese sulfide film.

2,659,679

PHOSPHOR COATING PROCESS

Lewis R. Koller, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 23, 1951, Serial No. 257,751
5 Claims. (Cl. 117—33.5)



1. The method of placing a different phosphor coating on each of three interior surfaces of a multicell screen which method comprises immersing the multicell with the longitudinal axes of the cells in horizontal position in an aqueous suspension of a first phosphor and a binder, allowing the particles of first phosphor in suspension to settle on the lower portions of the cell walls, mildly heating to fix the phosphor in position, removing the liquid from the cells, rotating the multicell about 120° around the axes of the cells, immersing the multicell in an aqueous suspension of a second phosphor and a binder, allowing the particles of second phosphor to settle on the lower portions of the cell walls, heating to fix the phosphor in position, removing the liquid from the cells, rotating the multicell an additional 120°, immersing the multicell in an aqueous suspension containing a third phosphor and a binder, allowing the particles of third phosphor to settle on the lower portions of the cell walls, heating to fix the phosphor in position, and removing the liquid from the cells.

2,659,680

PREPARATION OF PHOTOGRAPHIC PAPER HAVING GOOD CURL CHARACTERISTICS

Glen G. Gray, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 24, 1951, Serial No. 222,746
7 Claims. (Cl. 117—34)

1. A method of preparing photographic paper whereby the curling characteristics thereof are minimized which comprises applying to the paper a photographic emulsion coating and, on the opposite side of that paper, no later than the application of the emulsion coating, moisture in a sufficient amount to increase the moisture content of the paper 2–5% based on the weight of the paper, followed by a drying operation in which the moisture content of both the paper and the emulsion is reduced.

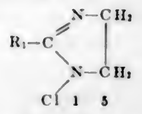
2,659,681

GAS PROTECTIVE FABRIC AND METHOD OF PREPARING THE SAME

Harry A. Weldon, Edgewood, Md., assignor to the United States of America as represented by the Secretary of War

No Drawing. Application December 8, 1942, Serial No. 468,283
2 Claims. (Cl. 117—62)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A gas protective fabric consisting of a normally air permeable textile containing in terms of its dry weight prior to impregnation not less than 0.25% nor more than 1.50% of chlorine attached to the nitrogen atom in the 1 position of an imidazoline impregnated in said fabric of the formula:



R_1 being a fatty acid radical selected from the group of radicals consisting of $C_{11}H_{23}$—, $C_{15}H_{31}$—,

$C_{17}H_{29}$—, $C_{17}H_{31}$—, $C_{17}H_{33}$—, $C_{17}H_{35}$—,

$C_{16}H_{33}CHOH$—, and $C_6H_{13}CHOHC_{10}H_{18}$.

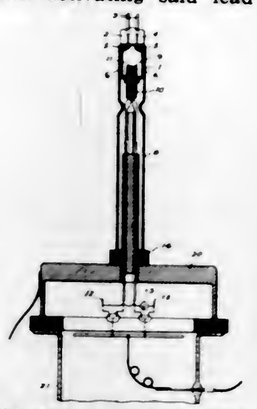
2,659,682

APPARATUS AND METHOD FOR MAKING A PHOTOCONDUCTIVE ELEMENT

Norman C. Anderson, Batavia, Ill., assignor to Continental Electric Company, Geneva, Ill., a corporation of Delaware

Application August 5, 1948, Serial No. 42,679
7 Claims. (Cl. 117—97)

4. A method of making a photo-conductive tube included an envelope, comprising depositing a layer of lead sulphide on a supporting surface, introducing the lead sulphide on said surface into the envelope, and transferring the lead sulphide by evaporation from the surface onto the envelope while activating said lead sulphide by



heating said surface to a temperature between 250° C. and 450° C.

2,659,683

METHOD OF PREPARING HIGH-GLAZE WAXED PAPER

Willem Martin Masee and Hendrikus Jacobus Loois, Amsterdam, Netherlands, assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application June 10, 1952, Serial No. 292,746
Claims priority, application Netherlands July 2, 1951
13 Claims. (Cl. 117—103)

1. In the method of preparing a waxed paper product wherein a web of paper is passed through molten paraffin wax and wherein the resulting wax-impregnated paper is immediately cooled to a temperature substantially below the melting point of the paraffin wax, the improvement comprising effecting said cooling by immersing said wax-impregnated paper in mercury maintained at a temperature of from about 0° C. to about 20° C.

2,659,684

SOLDERING FLUX COMPOSITION

Richard A. Neish, Library, Pa., assignor to United States Steel Corporation, a corporation of New Jersey

No Drawing. Application December 12, 1951, Serial No. 261,380
8 Claims. (Cl. 148—23)

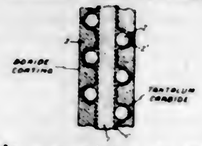
1. A soldering flux consisting essentially of a dilute solution of ammonium acid fluoride and ammonium chloride.

2,659,685

BORIDE CATHODES

James M. Lafferty, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application August 8, 1950, Serial No. 178,201
6 Claims. (Cl. 148—31.5)



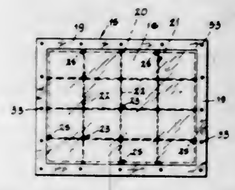
1. A cathode comprising a refractory metal core, an electron emissive coating thereon consisting essentially of a rare earth metal boride and an interposed layer including the carbide of the core metal for minimizing the diffusion of boron from the coating into the core metal.

2,659,686

LAMINATED GLASS STRUCTURE

George B. Watkins, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application February 13, 1950, Serial No. 143,877
4 Claims. (Cl. 154—2.71)



1. A laminated glass unit, comprising two sheets of glass and an interposed layer of plastic material bonded thereto to provide a composite structure, the plastic interlayer extending beyond the edges of the glass sheets to provide a flexible attaching flange, a metal reenforcing band embedded in the extended plastic flange, and a metal reenforcing grid secured to the outboard surface of said metal reenforcing band and arranged between the glass sheets.

2,659,687

FLOOR COVERING

Minerva Buchanan Tucker Moore, Kansas City, Mo.

Application February 11, 1952, Serial No. 271,619
3 Claims. (Cl. 154—49)



2. A composite floor covering comprising a pair of edge abutting carpets, a pad bonded to the underside of each carpet, a yieldable locking strip embedded in each pad and having a dove-tail locking end exposed at the edge of the pads by notching the corresponding pad faces, the opposite face of the pads being coextensive with the proximate faces of the locking strips, the carpet edges overlying the exposed dove-tail locking strips, and a yieldable locking key receiving and uniting the dove-tail strips by movement at right angles to the face of the pads, the exposed face of the key being coplanar with the faces of the pads.

2,659,688

THALLOPHYTOCIDAL COMPOSITION CONTAINING METAL-HYDRAZINE SALTS AND THE METHOD OF USING THE SAME

Edward C. Soule, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application December 30, 1950, Serial No. 203,803
10 Claims. (Cl. 167—14)

1. A composition having thallophyticidal properties which consists essentially of a pulverized

solid insecticide carrier and about 0.2 to 5 weight per cent of a double salt of an inorganic salt of a metal having an atomic number within the group 24 to 30 inclusive with one of the group consisting of hydrazine and hydrazine salts and which is characterized by a pH of 4 to 8 when in water dilution.

2,659,689

BENZOIC ESTERS

Albert A. Schreiber, Salem, N. Y., assignor to Van Dyk & Company, Inc., Belleville, N. J., a firm

No Drawing. Application December 23, 1950, Serial No. 202,558

6 Claims. (Cl. 167—90)

1. A p-aldimino benzoic ester of the general formula

$$R-CH=N-C_6H_4-COOR_1$$

wherein R—CH= denotes an aldo-monose radical and R_1 denotes a lower alkyl group.

2,659,690

EFFERVESCENT BARIUM SULFATE-PECTIN X-RAY CONTRAST COMPOSITION

Elmer H. Slaybaugh, Parsons, Kans.

No Drawing. Application June 8, 1950, Serial No. 166,976

2 Claims. (Cl. 167—95)

1. A composition in dry powder form which when mixed with water substantially immediately forms a suspension of media to be used internally for fluoroscopic observations and roentgenography of the esophagus, rugae of the intestinal tract, and gastroenteric mucosa and as an enema to produce contrasts for study and visualization of the lower bowel tract comprising, a mixture of the following ingredients and proportions, barium sulphate, pectin NF 30 to 70 grains, sodium carbonate 2.5 to 4 grains, and a dry organic acid selected from the group consisting of tartaric and citric acid, each being in a finely divided state, said composition being characterized by the fact that when mixed with water the organic acid, sodium carbonate and pectin react to produce a hydrogen ion concentration which accelerates digestion of the pectin whereby substantially immediately a viscous, homogeneous, mucilaginous, stabilized colloidal liquid is formed in which the barium sulphate and pectin are sustained in suspension, said sodium carbonate and organic acid being adjusted in quantity relative to the pH of the pectin in a selected quantity of water whereby when the composition is mixed with water and reaction ceases the pH of the resulting solution is in the range of 3 to 6.

2,659,691

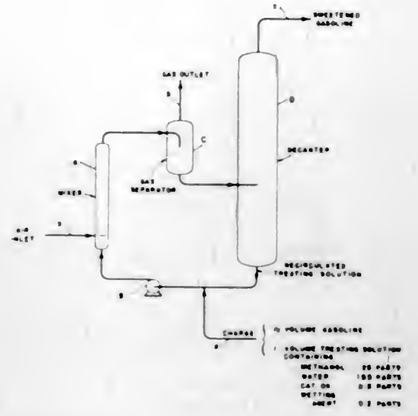
PROCESS FOR REFINING PETROLEUM PRODUCTS

André Gislon, Paris, and Joseph Quiquerez, Saint-Cloud, France, assignors to Societe Anonyme dite Compagnie Francaise de Raffinage, Paris, France, a corporation of France

Application December 15, 1949, Serial No. 133,058

19 Claims. (Cl. 196—29)

1. A process for refining petroleum products, which comprises effecting the oxidation of the mercaptans contained in said products by the action of oxygen in the presence of organic-chelate compounds that have the property of absorbing oxygen from air and of releasing it in a pure state, said chelate compounds having



metallic constituents and said chelate compounds behaving in this case as oxidation catalysts.

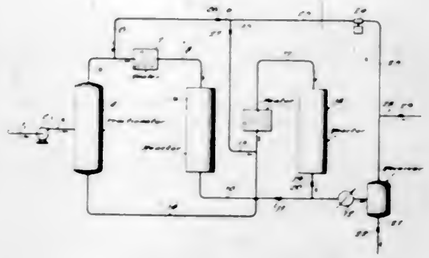
2,659,692

CATALYTIC REFORMING OF HYDROCARBONS IN TWO STAGES UTILIZING A PLATINUM - ALUMINA - HALOGEN CATALYST COMPOSITE

Vladimir Haensel, Hinsdale, and Clarence G. Gerhold, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application February 26, 1949, Serial No. 78,586

4 Claims. (Cl. 196—49)



1. A reforming process which comprises distilling a hydrocarbon fraction containing naphthenes and boiling below about 425° F. into a higher and a lower boiling fraction, reforming said lower boiling fraction in the presence of hydrogen and a catalyst comprising platinum and alumina in a first zone and reforming said higher boiling fraction at less intense conditions in the presence of hydrogen and a catalyst comprising platinum and alumina in a second zone, the catalyst in said first zone containing a greater effective concentration of halogen promoter than the catalyst in said second zone.

2,659,693

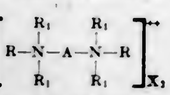
PROCESS FOR PREVENTING CORROSION OF FERROUS METALS

Melba L. Lytle, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application May 10, 1952, Serial No. 287,243

20 Claims. (Cl. 252—8.55)

1. A process for preventing the corrosion of ferrous metals exposed to a corrosive solution which comprises incorporating in said corrosive solution an effective amount of a double, long-chain quaternary ammonium salt represented by the formula:



where R is a radical selected from the group consisting of the radicals having an alkyl chain containing at least 8 carbon atoms and an alkyl chain having at least 8 carbon atoms and a benzyl group; R_1 is selected from the group consisting of the alkyl radicals having no more than 2 carbon atoms and the benzyl group radicals; A is selected from the group consisting of normal hydrocarbon chains having from 4 to 16 methylene groups, aryl radicals, and alkyl substituted aryl radicals; and X is a halogen selected from the group consisting of chlorine, bromine, and iodine.

2,659,694

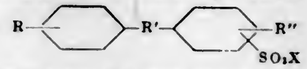
LUBRICATING OIL COMPOSITIONS CONTAINING ALKYL DIPHENYLALKANE MONOSULFONATES

Samuel B. Lippincott, Springfield, Frederick Neil Baumgartner, Plainfield, and Howard L. Yowell, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 8, 1952, Serial No. 308,514

5 Claims. (Cl. 252—33)

1. An improved lubricating composition which comprises a major proportion of a lubricating oil and a minor proportion sufficient to improve the detergency of said lubricating oil of a sulfonate corresponding to the following general formula:



wherein R' is an alkylene radical having from 1 to 10 carbon atoms, R and R'' are alkyl radicals, which can be the same or different, having a total carbon atom number of at least 15, the total carbon atom number of R, R' and R'' not exceeding 42, and X is a radical selected from the group consisting of alkali metal, alkaline earth metal and nitrogen base radicals.

2,659,695

LUBRICATING GREASES

Jacob Faust, Belleville, N. J., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware

No Drawing. Application January 6, 1951, Serial No. 204,827

8 Claims. (Cl. 252—33.2)

1. In the method for the production of lubricating grease by saponification, the improvement which comprises intimately contacting a mineral lubricating oil, containing a solution of at least one member of the group consisting of fats and acids thereof, with an emulsion, said emulsion being a water-in-oil emulsion containing a petroleum mahogany sulfonate dissolved in a mineral oil, water in an amount to constitute the discontinuous phase of the water-in-oil emulsion and having an insoluble grease forming metal hydroxide dispersed throughout in amount sufficient to form a soap with said group member.

2,659,696

LUBRICATING OIL CONTAINING A METAL SALT OF A CONDENSATION PRODUCT OF AN ALKYL SUBSTITUTED PHENOL AND AN OLEFIN OXIDE

Loren L. Neff, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application July 17, 1950, Serial No. 174,369

14 Claims. (Cl. 252—33.4)

1. A mineral lubricating oil containing between about 0.05% and about 20% by weight of an oil-soluble metal salt of the acidic reaction product obtained by condensing, in the presence of an acid condensation catalyst, at a temperature between about −20° C. and about 200° C., between 0.5 and 3 mols of a hydrocarbon substituted phenol in which the hydrocarbon substituent contains between about 4 and about 30 carbon atoms with 1 mol of a low molecular weight olefin oxide containing between 2 and about 8 carbon atoms per molecule.

2,659,697

LUBRICATING OILS CONTAINING AN ACYLOXYACETIC ACID AS A RUST INHIBITOR

Stephen J. Wayo, Whiting, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 25, 1950, Serial No. 140,549

4 Claims. (Cl. 252—56)

1. Lubricating oil compositions consisting essentially of a hydrocarbon mineral oil with a small amount, sufficient to impart rust preventing characteristics to said compositions, of an acyloxyacetic acid in which the total number of carbon atoms in the acyl group is at least 8.

2,659,698

MAGNETIC CORE AND METHOD FOR MANUFACTURING SAME

Godshalk Berge, Chicago, Ill., assignor to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois

No Drawing. Application January 3, 1949, Serial No. 69,043

9 Claims. (Cl. 252—62.5)

1. The method of manufacturing magnetic cores, comprising the steps of separately reacting Ni_2O_3, Co_2O_3 and ZnO with Fe_2O_3 in the ratio of one equivalent weight of the nickel and cobalt oxides to about two equivalent weights of iron oxide and one molecular weight of zinc oxide to one molecular equivalent iron oxide at a temperature within the range of 2000–2500° F. for from 1–4 hours, compounding the reaction products in finely divided form with vanadium oxide and magnesium zirconate and a binder in amounts ranging up to 8 percent of the mix, molding the mix to mold shape, heat treating the molded mass at a temperature within the range of 1800–2200° F. for ½–2 hours, and then slowly cooling the heat treated mass to room conditions, the materials being incorporated in amounts rang-

ing from 8–12 parts cobalt oxide, 6–12 parts nickel oxide, 5–15 parts zinc oxide, 1–10 parts vanadium oxide, 4–12 parts magnesium zirconate, and 40–65 parts iron oxide.

2,659,699

HYDRAULIC FLUID OF POLYHYDRIC ALCOHOL AND TRIALKYL PHOSPHATE

Melvin F. George, Jr., Los Angeles, and Perry M. Reedy, Jr., Burbank, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.

No Drawing. Application July 28, 1949, Serial No. 107,373

13 Claims. (Cl. 252—78)

1. A hydraulic fluid comprising the combination of one or more trialkyl phosphates, each of said phosphates having a total of 6–24 carbon atoms, with each of its alkyl groups having less than 9 carbon atoms and an aliphatic polyhydric alcohol component capable of materially inhibiting the swelling effect of said trialkyl phosphate on a copolymer of butadiene and acrylonitrile, said aliphatic polyhydric alcohol component being miscible with said trialkyl phosphate in the volume ratio of at least 10 parts of said aliphatic polyhydric alcohol component to 90 parts of said trialkyl phosphate, the volume ratio of said trialkyl phosphate to said aliphatic polyhydric alcohol component of said fluid being in the range of 90–10 to 55–45, said trialkyl phosphate being present in said fluid to the extent of 50–90% by volume, said aliphatic polyhydric alcohol component selected from the group consisting of glycerol, ethylene glycol, diethylene glycol, propylene glycol, butylene glycol, tetraethylene glycol, polypropylene glycol of 400–1200 molecular weight and mixtures thereof.

2,659,700

COMPOSITION FOR TESTING FOR GLUCOSE IN BIOLOGICAL FLUIDS

Richard M. Carson and Reuben R. Saeks, Dayton, Ohio

No Drawing. Application January 23, 1952, Serial No. 267,937

2 Claims. (Cl. 252—408)

2. A dry reagent for determining the presence and proportion of glucose in biological fluids by a marked change of color of the reagent within predetermined periods of time and without the application of external heat comprising a dry alkali metal manganate and a dry soluble alkali stabilizer selected from the group consisting of sodium aluminate and potassium aluminate, the alkali metal manganate being in the proportion of between approximately .66% and 20% by weight of the alkali stabilizer.

2,659,701

SOLUBILIZED PLATINUM SULFIDE REFORMING CATALYST

Llewellyn Heard, Hammond, Ind., and Marvin J. Den Herder, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application June 29, 1951, Serial No. 234,427

12 Claims. (Cl. 252—439)

1. A method for preparing a hydrocarbon-conversion catalyst which comprises commingling a platinum compound with a solution of a sulfide of a nitrogen base, whereby a stable solution of platinum sulfide is obtained, commingling said stable solution of platinum sulfide with alumina, and drying and calcining the resulting catalytic mixture.

2,659,702

WITHDRAWN

2,659,703

METHOD OF IMPREGNATING A SYNTHETIC RUBBER TO FORM A SPONGE RUBBER AND THE ARTICLE PRODUCED THEREBY

Harry A. Toulmin, Jr., and William R. Stauffer, Dayton, Ohio, assignors to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

No Drawing. Application June 12, 1948, Serial No. 32,736

1 Claim. (Cl. 260—2.5)

In a method of manufacturing sponge rubber, the steps of mixing an aqueous dispersion of polychloroprene latex containing approximately 88% neoprene based on the dry compound, sodium silico fluoride and sodium silicate in the proportion of substantially one part by volume of a 25% dispersion of sodium silico fluoride sensitizer and substantially one part by volume of sodium silicate of the approximate composition SiO_2 28.7%, Na_2O 8.9% and H_2O 62.4%; introducing nitrous oxide under pressure into the mixture, releasing the pressure on the mixture impregnated with nitrous oxide to produce a foamed rubber mass, and curing the foamed mass by the application of heat, the latex dispersion and mixture of silicate and sensitizer being present in the proportion of about 600 grams latex dispersion to 27.3 cc. of the mixture of silicate and sensitizer.

2,659,704

SELF-SPRAYING ARTIFICIAL SNOW COMPOSITION

Robert J. Kerr, Oak Park, Ill., assignor to Protective Coatings Corporation, Park Ridge, Ill., a corporation of Illinois

No Drawing. Application August 31, 1953, Serial No. 377,681

30 Claims. (Cl. 260—23)

1. A composition comprising 5–15% of a C_{12}–C_{18} fatty acid, 2½–8½% of a synthetic resin polymer, 10–40% of a solvent for the acid and the resin, and the balance consisting essentially of a polyhalogenated lower alkane refrigerant propellant, said resin being a polymer of an ester selected from the group consisting of vinyl acetate and an ester having the formula:

$$X-\overset{\overset{O}{\|}}{C}-O-X'$$

wherein X is a C_2–C_3 alkenyl radical having not more than 2 carbon atoms in a chain and X is a C_1–C_4 alkyl radical.

2,659,705

CORROSION PREVENTING AGENT

Louis A. Mikeska, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 1, 1950, Serial No. 171,751

18 Claims. (Cl. 252—32.7)

1. A composition consisting essentially of a petroleum hydrocarbon product to which has been added at least an oxidation inhibiting amount of a soluble metal salt of an acidic product obtained by reacting a mixture of a sulfurized unsaturated monohydric aliphatic alcohol having 2 to 20 carbon atoms per molecule and a saturated monohydric aliphatic alcohol having 1 to

20 carbon atoms per molecule, the total number of carbon atoms in the said mixture of alcohols being not less than 16, and the molar ratio of the sulfurized alcohol to the unsulfurized alcohol being from 2:1 to 1:2, with a sulfide of phosphorus of the class consisting of phosphorus pentasulfide and phosphorus heptasulfide, in such a molar ratio that two molecules of alcohol are present for each atom of phosphorus, the reaction between the alcohols and the sulfide of phosphorus being conducted at a temperature of 50–150° C., and the metal of the metal salt being chosen from metals of groups I to III of the periodic table.

2,659,706

COMPOUNDING PROCESS AND PRODUCT THEREOF FROM A MIXTURE OF A PHENOL-FORMALDEHYDE RESIN, BUTADIENE-ACRYLONITRILE COPOLYMER, AND A NONSOLVENT HYDROCARBON PLASTICIZER

Charles F. Fisk, Clifton, and Albert W. Meyer, Nutley, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 7, 1950, Serial No. 189,069

17 Claims. (Cl. 260—33.6)

11. A new composition of matter comprising an unset intimate mixture of a rubbery copolymer of butadiene and acrylonitrile, a thermosetting phenol-formaldehyde resin compatible therewith, and a non-solvent hydrocarbon plasticizer in proportions of from 20 to 70% of said resin and correspondingly from 80 to 30% of said copolymer, said percentages being by weight based on the sum of said resin and said copolymer, and from 5 to 100 parts by weight of said plasticizer per 100 parts of said copolymer, said ingredients having been commingled at a stock temperature not exceeding 160° F., said mixture being characterized by its "deadness," low modulus, and ease of cutting, and by the fact that upon being calendered the calendered material exhibits substantially no shrinkage or subsequent dimensional change.

2,659,707

CURING AGENTS FOR CHLOROSULFONATED POLYETHYLENE

Orrin G. Youngquist, Malcolm A. Smook, and Richard E. Brooks, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 23, 1951, Serial No. 217,312

5 Claims. (Cl. 260—41)

1. A process for the preparation of cured elastomers which consists of heating a chlorosulfonated hydrocarbon polymer at a temperature between 25 and 175° C. and under a pressure up to 1500 lbs./sq. in. for from a fraction of a minute to 120 minutes in the presence of channel black.

2,659,708

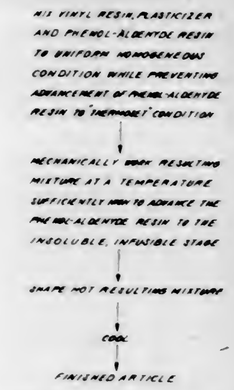
MIXTURES OF PLASTICIZED VINYL RESIN AND THERMOSET PHENOL-ALDEHYDE RESIN AND METHOD OF MAKING THE SAME

Sidney E. Berger, Cranston, R. I., and Kermit M. Webb, Swansea, Mass., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application January 10, 1951, Serial No. 205,364

12 Claims. (Cl. 260—43)

1. The process which comprises intimately mixing a thermosetting phenol-aldehyde resin of the novolac type, a hardening agent therefor, a vinyl resin selected from the group consisting of polyvinyl chloride and copolymers of a major proportion of vinyl chloride and a minor proportion of a copolymerizable monomer, said vinyl



resin being compatible with said phenol-aldehyde resin, and a plasticizer for said vinyl resin, said plasticizer being compatible with said phenol-aldehyde resin, the relative proportions of said ingredients being as follows:

	Per cent by weight
Vinyl resin	30 to 70
Plasticizer	20 to 45
Phenol-aldehyde resin	5 to 50

said percentages being based on the sum of said three ingredients and totalling 100%, at a temperature sufficiently low that said phenol-aldehyde resin is not advanced to the insoluble, infusible stage, until a homogeneous mixture is obtained, subsequently masticating said mixture at a temperature of at least 300° F. until said phenol-aldehyde resin is advanced to the insoluble, infusible stage, whereby there is obtained a plastic shapable mixture which upon cooling is extremely resistant to deformation when subjected to heat alone.

2,659,709

STABILIZED VINYLIDENE CHLORIDE COMPOSITIONS

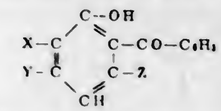
Anthony Fenwick Daglish, Reigate, and Donald Faulkner, Epsom, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application July 25, 1951, Serial No. 238,572

Claims priority, application Great Britain August 10, 1950

13 Claims. (Cl. 260—45.95)

1. A composition of matter comprising a polymer in which one polymerised ingredient is vinylidene chloride and as stabilising agent a hydroxybenzophenone of the general formula:



wherein X and Z are selected from the group consisting of hydrogen and methyl radicals and Y is selected from the group consisting of hydrogen, methyl and chlorine radicals.

2,659,710

PHENOL ALCOHOL-EPICHLOROHYDRIN REACTION PRODUCTS

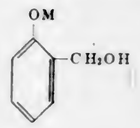
Robert W. Martin, Lenox, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application July 26, 1951, Serial No. 238,763

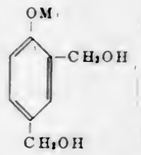
7 Claims. (Cl. 260—58)

1. The process which comprises reacting epichlorohydrin with a mixture of ingredients containing as essential materials the three alkali-metal methylol phenates having the formulae:

(a)

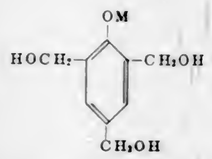


(b)



and

(c)



where M is an alkali metal atom, the tris-(hydroxymethyl) phenate derivative comprising at least 10 per cent, by weight, of the mixture of the above-identified three alkali-metal methylol phenates, thereby to obtain a reaction product containing at least 28.3% methylol groups.

2,659,711

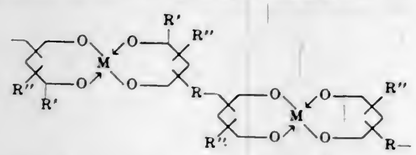
CHELATE POLYMERS FROM TETRAKETONES

John P. Wilkins, Grand Island, Buffalo, N. Y., and Emerson L. Wittbecker, West Chester, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 22, 1951, Serial No. 243,186

9 Claims. (Cl. 260—63)

1. A solid chelate condensation polymer having a linear chain of a plurality of recurring spirane type symmetrical units represented by the following general formula in which, for the purpose of illustrating the linkages, two of the plurality of recurring units are shown:



wherein R is a divalent hydrocarbon radical at least four carbon atoms in length, R′ is a monovalent hydrocarbon group, R″ is selected from the group consisting of hydrogen and monovalent hydrocarbon radicals, and M is a metal having a primary valence of two and a coordination number of four selected from the group consisting of beryllium, copper, nickel, zinc, cobaltous cobalt, ferrous iron, palladous palladium, manganous manganese, calcium, strontium, barium, and cadmium.

2,659,712

PREPARATION OF RESINOUS CONDENSATION PRODUCTS FROM AROMATIC KETONES AND AMINES

Ralph B. Thompson, Hinsdale, and Herman S. Bloch, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application August 9, 1950, Serial No. 178,556

11 Claims. (Cl. 260—65)

1. A process for the manufacture of a resinous product which comprises reacting a nuclearly polyacyl-substituted aromatic compound with a polyamino compound containing at least two radicals per molecule selected from the group consisting of the primary and secondary amino groups and being free of other substituents which are reactable with said aromatic compound in the process, said aromatic compound being of the general formula $Ar(COR)_n$ wherein R is selected from the group consisting of an aryl radical and an aliphatic hydrocarbon radical of from 1 to 5 carbon atoms, n is a whole number of from 2 to 5 and Ar is an aromatic group having the acyl groups substituted on an aromatic ring thereof and which is free of amino-reactive substituents other than the acyl groups, said aromatic and amino compounds being reacted at a temperature of from about 50° to about 300° C. and in approximately equivalent proportions as defined by the equivalence of one carbonyl group to two amino hydrogen atoms.

2,659,713

PROCESS FOR PREPARING LINEAR POLYAMIDES

Eugene Edward Magat, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 18, 1950, Serial No. 156,717

4 Claims. (Cl. 260—72)

1. A process for producing synthetic linear polyamides which comprises reacting an organic dinitrile of the formula: NC—R′$_m$—CN wherein R′ is a divalent radical from the group consisting of hydrocarbon and unreactive heterocyclic radicals and m is a numeral from 0 to 1 and an N,N′-dimethylolamide of the formula

HO—CH_2—NH—CO—R—CO—NH—CH_2—OH

wherein R is a divalent radical from the group consisting of hydrocarbon, unsubstituted heterocyclic, and halogen-substituted hydrocarbon and heterocyclic radicals, in the presence of a strong acid catalyst as the reaction medium, the concentration of the organic dinitrile and N, N′-dimethylolamide together constituting from 2 to 40% by weight of the reaction mixture, and continuing the reaction until a polymer of the desired intrinsic viscosity is obtained.

2,659,714

ALLYL-TYPE PHOSPHINATES AND POLYMERS OF THE SAME

Denham Harman, Orinda, and Alan R. Stiles, Berkeley, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application March 24, 1951, Serial No. 217,396

16 Claims. (Cl. 260—78.5)

11. A polymer of an ester of a beta,gamma-olefinically unsaturated alcohol and a dihydrocarbon phosphinic acid, in said ester the olefinic unsaturation in the alcohol residue being the only aliphatic carbon-to-carbon unsaturation in the molecule.

2,659,715

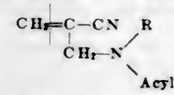
ALPHA-ACYLAMINOMETHYL ACRYLONITRILES AND POLYMERS THEREOF

Harry W. Coover, Jr. and Joseph B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

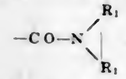
No Drawing. Application March 29, 1951, Serial No. 218,266

8 Claims. (Cl. 260—79.3)

8. A polymer of an α-acylaminomethyl acrylonitrile represented by the general structural formula:



wherein Acyl represents a group selected from those consisting of a —CO—R_1 group, a



group and an —SO_2—R_1 group, wherein R_1 represents an alkyl group containing from 1 to 4 carbon atoms, and R represents a member selected from the group consisting of an atom of hydrogen, an alkyl group containing from 1 to 4 carbon atoms and an Acyl group, wherein Acyl has the meaning given above.

2,659,716

VINYL HALIDE POLYMERIZATION WITH ADIPOYL PEROXIDE AND HEXAMETHYLENE DIAMINE

Harold F. Park, East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 24, 1952, Serial No. 316,788

5 Claims. (Cl. 260—92.8)

1. A mass polymerization process which comprises polymerization a vinyl halide at from 100° C. to 400° C. and at 25 to 500 atmospheres pressure in contact with a mixture of molecular equivalent amounts of adipoyl peroxide and hexamethylene diamine.

2,659,717

HIGH-TEMPERATURE POLYMERIZATION OF STYRENE

Harold F. Park, East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 24, 1952, Serial No. 316,787

4 Claims. (Cl. 260—93.5)

1. A mass polymerization process which comprises polymerizing styrene at 100° C. to 400° C. in from 5 to 30 minutes in contact with a mixture of molecular equivalent amounts of 4,4′-dihydroxy benzoyl peroxide and glyoxal.

2,659,718

TREATMENT OF RESIN ACID-FATTY ACID MIXTURES

Owen S. Eckhardt, Columbia, Miss., Don F. Cook, South Bend, Ind., and Ismond E. Knapp, Columbia, Miss., assignors to Leach Brothers, Inc., a corporation of Wisconsin

No Drawing. Application August 22, 1951, Serial No. 243,174

17 Claims. (Cl. 260—97.5)

1. In a method for inhibiting the crystallization of resin acids in mixtures of resin acids and higher molecular weight fatty acids derived from tall oil, the steps which comprise reacting said mixtures with a lower molecular weight aliphatic alcohol to esterify at least the major proportion of the fatty acids present in said mixtures, and then heating said reaction product with from about 4% to about 12%, by weight, of formaldehyde, based on the weight of the resin acids.

2,659,719

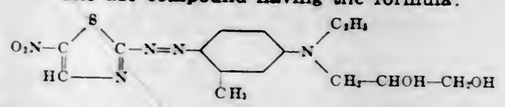
2-AMINO-5-NITROTHIAZOLE AZO DYE COMPOUNDS

Joseph B. Dickey and Edmund B. Towne, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 23, 1951, Serial No. 233,243

9 Claims. (Cl. 260—158)

7. The azo compound having the formula:



2,659,720

PYRAZOLONE MONOAZO DYESTUFFS

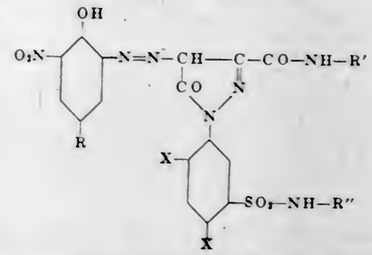
Werner Kuster, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application December 3, 1951, Serial No. 259,695

Claims priority, application Switzerland December 12, 1950

6 Claims. (Cl. 260—163)

1. A monoazo dyestuff having the general formula:



wherein R represents a saturated hydrocarbon radical with 4 to 8 carbon atoms, R′ and R″ rep-

resent a member selected from the group, consisting of hydrogen, lower alkyl and lower hydroxyalkyl radicals and one X represents a member selected from the group consisting of hydrogen and chlorine, and the other X represents hydrogen.

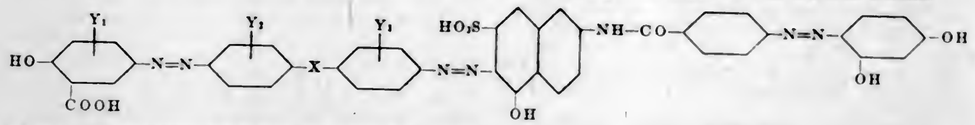
2,659,721

TRISAZO DYESTUFFS

Werner Bossard, Riehen, near Basel, and Otto Bitterlin, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application November 29, 1951, Serial No. 258,993
Claims priority, application Switzerland December 15, 1950
6 Claims. (Cl. 260—172)

1. A trisazo dyestuff of the general formula:



wherein X represents a member selected from the group consisting of the diphenyl linkage, the —CO—NH— and —NH—CO— radicals, Y_1 Y_2 and Y_3 are selected from the group consisting of hydrogen and lower alkyl groups.

2,659,722

PENICILLIN SALTS OF AMINOALKYL-HYDROXYBENZOATES

Ole Hans Tobiassen, Copenhagen, Denmark, assignor to Lovens kemiske Fabrik ved A. Kongsted, Copenhagen, Denmark, a firm

No Drawing. Application April 1, 1950, Serial No. 153,493
Claims priority, application Denmark April 9, 1949
3 Claims. (Cl. 260—239.1)

1. A stable salt of penicillin with a dialkylaminoalkyl-p-hydroxybenzoate with alkyl groups of one to four carbon atoms, said salt being only slightly soluble in water and, on injection, producing a high transitory penicillin blood concentration and a prolonged penicillin action, said high transitory penicillin blood concentration being higher than that produced on injection of procaine penicillin.

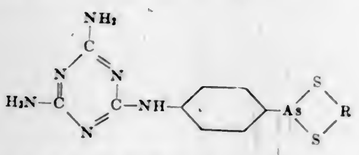
2,659,723

TRIAZINE ORGANOMETALLIC COMPOUNDS AND PROCESS FOR PREPARING SAME

Ernst A. H. Friedheim, New York, N. Y.

No Drawing. Application January 28, 1947, Serial No. 724,925
2 Claims. (Cl. 260—242)

1. A new organometallic compound corresponding to the formula



wherein R is an ethylene radical substituted by a member of the group consisting of $—CH_2OH$, and $—CH_2OC_2H_5$.

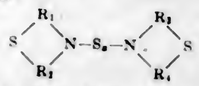
2,659,724

SULFIDES OF THIODIARYLAMINES

Richard O. Zerbe, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 2, 1951, Serial No. 240,061
8 Claims. (Cl. 260—243)

1. As a new composition of matter a compound of the formula



where x is an integer from 1 to 4 and where R_1, R_2, R_3 and R_4 are ortho-arylene hydrocarbon radicals of the benzene and naphthalene series containing less than eleven carbon atoms.

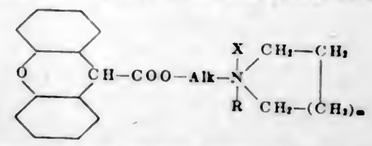
2,659,725

QUATERNARY AMMONIUM SALTS OF HETEROCYCLYLALKANOL ESTERS OF XANTHENE-9-CARBOXYLIC ACID

John W. Cusic, Skokie, and Richard A. Robinson, Morton Grove, Ill., assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application June 21, 1950, Serial No. 169,535
26 Claims. (Cl. 260—247.2)

1. A quaternary ammonium salt of a xanthene-9-carboxylate of the structural formula



wherein Alk is a lower alkylene radical, R is a lower alkyl radical, X is one equivalent of an anion and m is an integer from one to two, inclusive.

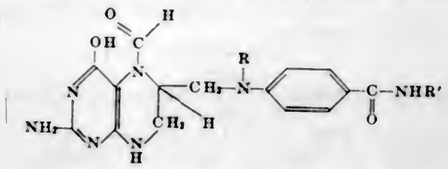
2,659,726

SUBSTITUTED FORMYLTETRAHYDROPTEROYL AMINO ACIDS AND METHOD OF PREPARING THE SAME

Donna B. Cosulich, Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

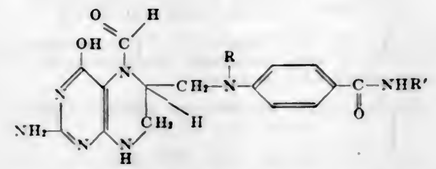
No Drawing. Application April 8, 1952, Serial No. 281,221
8 Claims. (Cl. 260—251.5)

1. A compound of the group consisting of those having the formula:



in which R is a lower alkyl radical and NHR′ is an aliphatic amino acid radical of the group consisting of glutamic acid and adjacent homologs and alkaline earth metal salts thereof.

5. A process of preparing a compound having the formula:



in which R is a lower alkyl radical and NHR′ is an aliphatic amino acid radical of the group consisting of glutamic acid and adjacent homologs which comprises subjecting a 10-alkylpteroyl aliphatic amino acid to the action of hydrogen and a reducing agent until two molecular equivalents of hydrogen are absorbed, formylating the reduced pteridine in the 5-position and separating the said compound.

2,659,727

PREPARATION OF LEUCO-INDANTHRONE SULFURIC ESTERS

William B. Hardy, Bound Brook, and Robert B. Fortenbaugh, Gladstone, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 15, 1952, Serial No. 271,868
16 Claims. (Cl. 260—265)

1. Process of preparing leuco indanthrone tetrasulfuric esters which comprises reacting a leuco sulfuric ester of a beta-amino-anthraquinone having a free position alpha to the amino group with a compound containing as an anion iron having an even valence not less than 4 and not greater than 6.

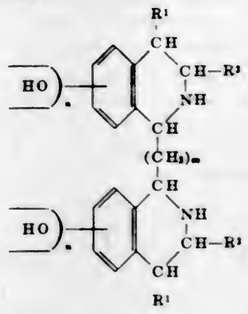
2,659,728

BIS-HYDROXYTETRAHYDROISOQUINOLYL-ALKANES

Paul N. Craig, Elkins Park, and Fred P. Nabenhauer, Philadelphia, Pa., assignors to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application July 5, 1951, Serial No. 235,394
5 Claims. (Cl. 260—286)

1. A compound of the class consisting of a free base and its acid addition salts, the free base having the formula:



in which R^1 and R^2 are selected from the group consisting of hydrogen and lower alkyl radicals; n is an integer of from 1 to 3; and m is an integer of from 1 to 12.

2,659,729

ALKYLENE-BRIDGED 5,6-DIHYDROXYQUINOLINES

William A. Lott, Maplewood, N. J., assignor, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md., a corporation of Virginia

No Drawing. Original application April 17, 1948, Serial No. 21,739. Divided and this application October 21, 1950, Serial No. 191,507
7 Claims. (Cl. 260—289)

1. An 8-nitro-quinoline having in the 5,6-position the group —O-(divalent alkyl)-O—.

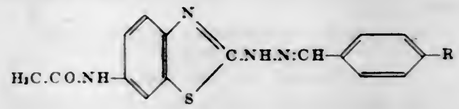
2,659,730

2′-(4′-LOWER ALKANOYLAMINOBENZAL)-6-ACETYLAMINO-HYDRAZINOBENZOTHIAZOLE-2

Leon Katz, Cincinnati, Ohio, assignor to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application April 12, 1951, Serial No. 220,717
2 Claims. (Cl. 260—305)

1. A novel chemical compound represented by the formula:



wherein R is a lower alkanoylamino group.

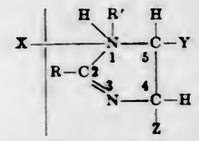
2,659,731

CARBOCYCLIC MONOCARBOXYLIC ACID SALTS OF GLYOXALIDINES

George W. Luvisi, Chicago, Ill., assignor to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Application September 26, 1950, Serial No. 186,929
9 Claims. (Cl. 260—309.6)

1. A compound having the following general formula



where X is the negative radical of a carbocyclic monocarboxy acid from the group consisting of mono- and di-carbocyclic acids in which the carbocyclic structure is from the group consisting of 5-membered and 6-membered carbon rings, R is a higher aliphatic hydrocarbon radical containing at least 11 carbon atoms, R′ and Y are from the group consisting of hydrogen and lower aliphatic groups containing not more than 6 carbon atoms and Z is from the group consisting of hydrogen and lower alkyl groups containing not more than 6 carbon atoms.

2,659,732

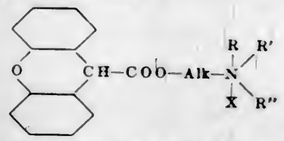
QUATERNARY AMMONIUM SALTS OF DIALKYL AMINOALKYL XANTHENE-9-CARBOXYLATES AND THE PRODUCTION THEREOF

John W. Cusic, Skokie, and Richard A. Robinson, Morton Grove, Ill., assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application May 10, 1952, Serial No. 287,258

21 Claims. (Cl. 260—335)

1. A quaternary ammonium salt of an aminoalkyl ester of xanthene-9-carboxylic acid, said salt having the formula



wherein Alk is a lower alkylene radical, R, R' and R'' are lower alkyl radicals and X is one equivalent of an anion.

2,659,733

PROCESS OF PRODUCING BUTYROLACTONES

Karl Folkers, Plainfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application April 20, 1949, Serial No. 88,696

6 Claims. (Cl. 260—343.6)

1. The process for preparing α-amino-β,β-dimethyl-γ-butyrolactone which comprises treating α,α-dimethyl-β-hydroxy-propionaldehyde in an alcoholic medium with an ammonium salt in the presence of a water-soluble cyanide, and hydrolyzing the butyronitrile formed by means of a strong mineral acid to obtain the desired γ-lactone.

2,659,734

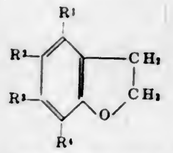
DEHYDROGENATION OF COUMARANES

Theodore A. Geissman, Los Angeles, Calif.

No Drawing. Application July 30, 1951, Serial No. 239,375

3 Claims. (Cl. 260—346.2)

1. The method of forming the corresponding coumarone from a coumarane having the following formula:



where R^1, R^2, R^3, R^4 are selected from the group consisting of hydrogen, lower alkoxy, lower acyl, and lower acyloxy radicals and any adjacent two of which comprise together a pyrone radical, which comprises subjecting the coumarane to a free radical halogen attack to form a halocoumarane and reacting the thus formed halocoumarane with a tertiary amine base to form a coumarone.

2,659,735

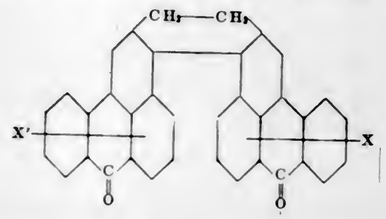
CONDENSATION PRODUCTS OF THE BENZANTHRONE SERIES AND PROCESS FOR THEIR PREPARATION

James M. Straley, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

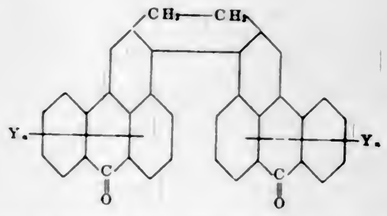
No Drawing. Application April 4, 1950, Serial No. 153,996

4 Claims. (Cl. 260—363)

1. The compounds selected from the group consisting of compounds having the formulas:



and



wherein X and X' each represents the same member selected from the group consisting of a hydrogen atom, a bromine atom, a fluorine atom and a methyl group, Y represents a chlorine atom and each n represents the same small whole number selected from the group consisting of 1 and 2.

2,659,736

ACID DYESTUFFS OF THE ANTHRAQUINONE SERIES

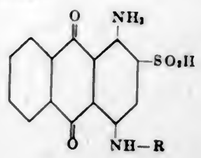
Samuel von Allmen and Hans Eggenberger, Basel, Switzerland

No Drawing. Application September 24, 1951, Serial No. 248,108

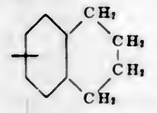
Claims priority, application Switzerland September 27, 1950

6 Claims. (Cl. 260—372)

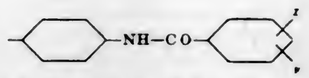
1. An acid dyestuff of the anthraquinone series which contains two atoms or bromine and which is obtained by treating in sulfuric acid medium with elementary bromine a 1-amino-4-arylaminoanthraquinone-2-sulfonic acid corresponding to the formula



wherein R stands for a radical selected from the group consisting of



and



each of x and y representing a member selected from the group consisting of hydrogen, halogen, methyl, amino and acetylamino.

2,659,737

DYESTUFF INTERMEDIATES OF THE ANTHRAQUINONE SERIES

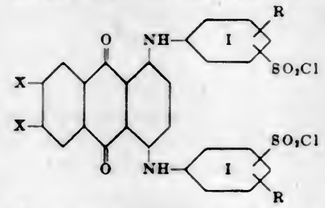
Albin Peter and Erhard Wydler, Basel, Switzerland

No Drawing. Application December 3, 1951, Serial No. 259,696

Claims priority, application Switzerland December 8, 1950

12 Claims. (Cl. 260—374)

1. A dyestuff intermediate of the anthraquinone series, which corresponds to the formula



wherein X stands for an atom selected from the group consisting of hydrogen, chlorine and bromine, and wherein R represents a member selected from the group consisting of hydrogen, lower alkyl, lower alkoxy, phenoxy, lower alkyl phenoxy, halogeno phenoxy groups and halogen atoms.

2,659,738

1-NITROANTHRAQUINONE-3-CARBOXYLIC ACID AND A PROCESS OF PRODUCING IT

Otto Schlichting, Ludwigshafen (Rhine), Erich Jutz, Schifferstadt, and Werner Rohland, Ludwigshafen (Rhine-Oppau), Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Germany

No Drawing. Application February 19, 1951, Serial No. 211,812

Claims priority, application Germany February 28, 1950

1 Claim. (Cl. 260—376)

A process for the production of 1-nitroanthraquinone-3-carboxylic acid which comprises diazotizing 1-amino-4-nitroanthraquinone-2-carboxylic acid and treating the diazo compound obtained with reducing agents which effect a replacement of the diazonium group by hydrogen.

2,659,739

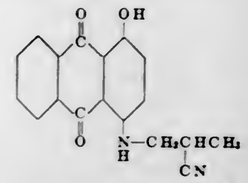
1-HYDROXY-4-β-CYANOPROPYLAMINOANTHRAQUINONE AND PROCESS FOR PREPARING SAME

Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 14, 1950, Serial No. 156,049

1 Claim. (Cl. 260—380)

The anthraquinone compound having the formula:



2,659,740

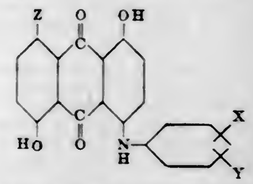
1,5-DIHYDROXY-8-HALO-4-AMINOANTHRAQUINONE COMPOUNDS

Joseph B. Dickey and Edmund B. Towne, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 17, 1951, Serial No. 242,428

8 Claims. (Cl. 260—380)

1. The anthraquinone compounds having the general formula:



wherein X represents a member selected from the group consisting of a monohydroxyalkyl group having one to three, inclusive, carbon atoms and a dihydroxyalkyl group having two to three, inclusive, carbon atoms, Y represents a member selected from the group consisting of a hydrogen atom, a chlorine atom, a hydroxy group, a methoxy group and a methyl group and Z represents a halogen atom having an atomic weight of from 19 to 80.

2,659,741

11-KETO-17 ALPHA-PROGESTERONE

Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 1, 1952, Serial No. 296,724

1 Claim. (Cl. 260—397.3)

11-keto-17α-progesterone.

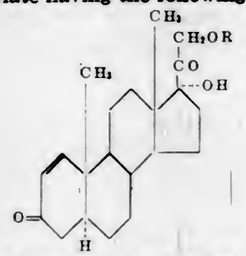
2,659,742

$\Delta^{1,2}$-ALLOPREGNENES AND PROCESS

George Rosenkranz, Stephen Kaufmann, and John Pataki, Mexico City, Mexico, assignors to Syntex S. A., Mexico City, Mexico, a corporation of Mexico

No Drawing. Application January 23, 1950, Serial No. 140,153
6 Claims. (Cl. 260—397.4)

1. A $\Delta^{1,2}$ - allopregnene - 17α,21 - diol - 3,20-dione 21-acylate having the following formula:



wherein R is a lower fatty acid radical.

2,659,743

11 ALPHA, 17 ALPHA, 21-TRIHYDROXY-PREGNANE-3,20-DIONE

Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 1, 1952, Serial No. 296,730
4 Claims. (Cl. 260—397.4)

2. A compound selected from the group consisting of 11α,17α,21-trihydroxypregnane-3,20-dione and its esters of hydrocarbon carboxylic acids containing less than nine carbon atoms.

2,659,744

11 ALPHA, 17 ALPHA, 21-TRIHYDROXY-ALLOPREGNANE AND ITS ESTERS

William P. Schneider, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application October 1, 1952, Serial No. 312,660
4 Claims. (Cl. 260—397.4)

1. A compound selected from the group consisting of 11α,17α,21-trihydroxyallopregnane-3,20-dione and its esters of hydrocarboncarboxylic acids having from one to eight carbon atoms inclusively.

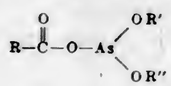
2,659,745

MIXED ANHYDRIDES BETWEEN CARBOXYLIC AND SUBSTITUTED ARSENOUS ACIDS

James R. Vaughan, Jr., Glenbrook, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 1, 1951, Serial No. 208,988
17 Claims. (Cl. 260—440)

1. A mixed anhydride of a diester of arsenous acid and a carboxylic acid represented by the formula:



in which



represents an acyl group and in which R′ and R″ represent nonfunctional esterifying radicals.

2,659,746

OXIDATION PROCESS

Chester S. Morgan, Jr., Corpus Christi, Tex., and Nat C. Robertson, Cambridge, Mass., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application June 30, 1951, Serial No. 234,656
15 Claims. (Cl. 260—451)

1. In a process for the oxidation of lower aliphatic hydrocarbons with an oxygen-containing gas to produce oxygenated organic compounds, the step which comprises effecting said oxidation in the liquid phase while employing a soluble bismuth compound as catalyst for said oxidation.

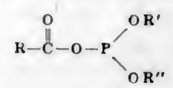
2,659,747

MIXED ANHYDRIDES OF PHOSPHITE ESTERS AND PROCESSES OF PREPARING THE SAME

Richard W. Young, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 1, 1950, Serial No. 198,722
13 Claims. (Cl. 260—461)

1. A mixed anhydride of a diester of phosphorous acid and a carboxylic acid represented by the formula:



in which



represents an acyl group and in which R′ and R″ represent nonfunctional esterifying radicals.

2,659,748

PROCESS OF PREPARING ACRYLONITRILE

Raymond A. Franz, El Dorado, Ark., assignor to Lion Oil Company, El Dorado, Ark., a corporation of Delaware

Application June 30, 1951, Serial No. 234,570
13 Claims. (Cl. 260—465.3)

1. Process of preparing acrylonitrile which comprises reacting together at super-atmospheric pressure acetylene and hydrogen cyanide in the presence of an aqueous solution of a cuprous chloride complex and an alkane having 1–4 carbon atoms.

2,659,749

PROCESS FOR PREPARING DIACYL CYANIDES

Lawrence F. Arnold, Avon Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 7, 1952, Serial No. 286,609
6 Claims. (Cl. 260—465.4)

1. In the method which comprises bringing together a monocarboxylic acid anhydride and hydrogen cyanide in the presence of a basic catalyst whereupon chemical reaction occurs between said anhydride and the hydrogen cyanide to form a diacyl cyanide, the improvement which comprises carrying out the reaction in the liquid phase at a temperature of from about —70° C. to about 100° C., in the presence of a catalyst consisting of a picoline.

2,659,750

PROCESS FOR ESTERIFYING CARBOCYCLIC CARBOXYLIC ACIDS

Alan Bell and M B. Knowles, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 15, 1952, Serial No. 271,875
13 Claims. (Cl. 260—468)

1. The process of preparing an ester of a carbocyclic carboxylic acid which comprises esterifying a carbocyclic carboxylic acid with a member selected from the group consisting of a trialkyl phosphate and a tri-β-chloroethyl phosphate.

2,659,751

ESTERS OF NITROACETIC ACID

Henry B. Hass and Henry Feuer, West Lafayette, Ind., assignors to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana

No Drawing. Application January 21, 1948, Serial No. 3,560
2 Claims. (Cl. 260—478)

1. A process for the production of a nitroacetic acid ester which comprises: reacting one molecular proportion of a dialkali-metal salt of nitroacetic acid with an excess of a lower aliphatic alcohol and at least two molecular proportions of concentrated sulfuric acid in the presence of an inert drying agent at a temperature between approximately —50 and —60 degrees centigrade.

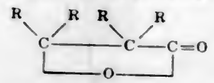
2,659,752

METHOD FOR PREPARING BETA-(ARYLSULFONYL) CARBOXYLIC ACIDS AND SALTS THEREOF

James T. Gregory, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application August 9, 1951, Serial No. 241,161
10 Claims. (Cl. 260—515)

1. The method which comprises reacting in a mutual polar solvent at a temperature of from about —10° C. to about 150° C. a saturated aliphatic beta-lactone of the structure



wherein each R is selected from the class consisting of hydrogen and lower alkyl radicals, and a compound of the structure Ar—SOOX, wherein Ar is selected from the class consisting of aryl and halogenated aryl radicals and X is selected from the class consisting of hydrogen and positive salt forming groups, said salt forming groups imparting water solubility to the salt derivatives of said compound, thereby to obtain a compound of the structure



wherein Ar, each R and X have the same significance as above.

2,659,753

PREPARATION OF MIXED AROMATIC-ALIPHATIC ETHERS

Ralph E. Plump, Pittsfield, Mass., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application May 20, 1950, Serial No. 163,327
9 Claims. (Cl. 260—521)

1. In the preparation of mixed aromatic ethers by reacting in aqueous solutions the metal salts of aryl hydroxides with compounds of the group consisting of halo aliphatic and alicyclic acids the improvement comprising carrying out said reaction under alkaline conditions in a substantially saturated aqueous solution of an inorganic salt having a water solubility not substantially less than that of sodium chloride.

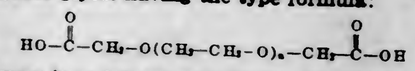
2,659,754

TREATMENT OF CARBOXYMETHYL DIETHERS OF ETHYLENE GLYCOLS TO REMOVE HNO_3

Arthur B. Ash, Wyandotte, and Mason H. Earing, Lincoln Park, Mich., assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan

No Drawing. Application May 22, 1952, Serial No. 289,426
5 Claims. (Cl. 260—535)

2. A method for treating a mixture consisting essentially of a carboxymethyl diether of an ethylene glycol having the type formula:



where n is an integer, and nitric acid, which comprises intimately contacting said mixture with sulfur dioxide, heating to form a complex of an oxide of nitrogen and sulfur dioxide, and subsequently removing the complex.

2,659,755

GUANIDINE SALTS OF PENTACHLOROPHENOL

Marion W. Harman, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 16, 1952, Serial No. 288,341
1 Claim. (Cl. 260—565)

1,3-di-o-tolylguanidine pentachlorophenate.

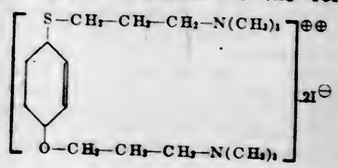
2,659,756

DIAMMONIUM SALTS

Franz Häfliger, Basel, and Emil Girod, Riehen, near Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application June 30, 1952, Serial No. 296,484
Claims priority, application Switzerland July 11, 1951
2 Claims. (Cl. 260—567.6)

2. The dimetho - iodide of 1 - (γ - dimethylamino - propoxy) - 4 - (γ - dimethylamino - propylmercapto) - benzene of the formula:



2,659,757

α-AROYL-β-TRICHLORMETHYL-ETHYLENES

Jean Druey, Riehen, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application April 2, 1951, Serial No. 218,890
Claims priority, application Switzerland April 20, 1950
1 Claim. (Cl. 260—592)

The compound α - (3,4 - dichloro - benzoyl) - β-trichloro - methyl - ethylene having bacteriostatic and fungistatic activity.

2,659,758

MAINTAINING ACTIVITY OF CUPROUS OXIDE CATALYST IN OXIDATION OF OLEFINS

Kenneth D. Detling, Berkeley, and Thurston Skei, Lafayette, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application June 28, 1948, Serial No. 35,744
11 Claims. (Cl. 260—604)

6. In a process for the oxidation of an olefin containing at least three carbon atoms to a product of partial oxidation by reaction with molecular oxygen in the presence of a mobile bed of a solid catalyst essentially comprising cuprous oxide, wherein a gaseous mixture comprising said olefin and molecular oxygen is passed into contact with the catalyst in a first reaction zone maintained under conditions of operation conducive to gradual deactivation of the catalyst, the method of maintaining, or restoring high activity of the catalyst which comprises transferring partially deactivated catalyst which is free of material deposits of carbonaceous, tarry and like material from said reaction zone to a second reaction zone, therein passing a gaseous mixture comprising said olefin and oxygen into contact with the catalyst at conditions of at least one of: temperature and pressure, differing from those in the first reaction zone by an amount represented by a value of 1.1 to 4.0 for the ratio

$$(T_1/T_0)^2/(P_1/P_0)^{1/3}$$

when there is substituted for T_0 and T_1 the temperature, in degrees centigrade, of said first and second reaction zones, respectively, and there is substituted for P_0 and P_1 the pressures, in pounds per square inch absolute, in said first and second reaction zones, respectively, maintaining the catalyst in said second reaction zone until reactivation has occurred, and then transferring the catalyst to the first-mentioned reaction zone.

2,659,759

PRODUCTION OF 6-CHLORO-O-CRESOL

John W. Zemba, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 26, 1950, Serial No. 202,799
1 Claim. (Cl. 260—623)

A method of preparing substantially pure 6-chloro-o-cresol which comprises (1) treating o-cresol with from 90 to 99 mol per cent thereof of chlorine at a temperature from 35° to 60° C. to produce a mixture consisting essentially of 4-chloro-o-cresol, 6-chloro-o-cresol, dichloro-o-cresols and unreacted o-cresol, (2) subjecting this mixture to fractional distillation to separate a fraction consisting essentially of 6-chloro-o-cresol and o-cresol and substantially free of 4-chloro-o-cresol and dichlorocresols, (3) treating this fraction with chlorine in a proportion equimolar to the o-cresol therein at a temperature from 35° to 60° C. to chlorinate the o-cresol, and (4) subjecting the resulting chlorinated fraction to fractional distillation to separate substantially pure 6-chloro-o-cresol.

2,659,760

BROMINATION OF BENZENE-SERIES HYDROCARBONS

Ludo K. Frevel and John William Hedelund, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application March 30, 1950, Serial No. 152,982
10 Claims. (Cl. 260—650)

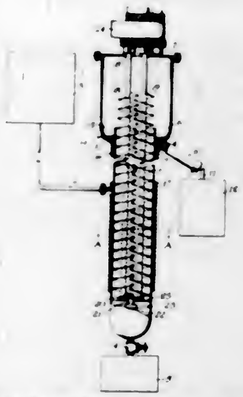
1. A method of brominating a compound of the class consisting of hydrocarbons of the benzene series having not more than two nuclear alkyl substituents and mono- and di- nuclear halogen substitution products thereof wherein the halogen has an atomic weight less than 80 that comprises contacting bromine with a preformed solution consisting essentially of (1) at least 0.05 per cent of hydrogen bromide and (2) at least 0.01 per cent of an amphoteric metal halide of the group consisting of aluminum chloride, aluminum bromide, ferric chloride and ferric bromide in (3) the compound to be brominated.

2,659,761

FRACTIONAL CRYSTALLIZATION METHOD

Ludo K. Frevel, Midland, and Leonard J. Kressley, Saginaw, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application August 23, 1948, Serial No. 45,664
11 Claims. (Cl. 260—652)



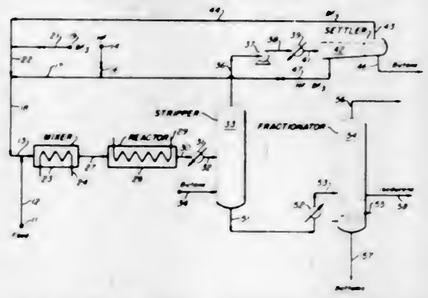
1. A fractional crystallization method which comprises bringing a mixture to a temperature at which it consists of a slurry of crystalline and liquid materials, continuously lifting crystalline material from the slurry upward through a zone of increasing temperatures so as to cause recrystallization and partial melting of the crystalline material with a resultant downflow of the melt over ascending crystalline material at lower points but above said slurry, the rate of melting being controlled so as to avoid complete immersion of a major portion of the ascending crystalline material in a continuous body of the melt and gradually elevating the material undergoing recrystallization through said zone and delivering the resultant recrystallized material from the top of said zone.

2,659,762

ISODURENE MANUFACTURE

Arthur P. Lien, Highland, Ind., and David A. McCaulay, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application July 24, 1952, Serial No. 300,652
9 Claims. (Cl. 260—668)



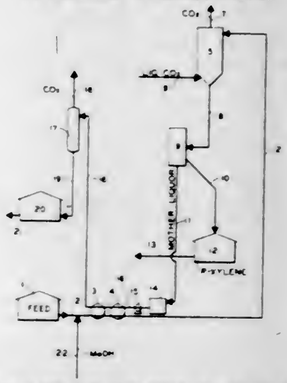
1. A process for the production of isodurene from the other isomeric tetramethylbenzenes, which process comprises contacting under substantially anhydrous conditions a feed comprising essentially at least one other tetramethylbenzene with from about 0.9 to 3 mols of BF_3 per mol of said tetramethylbenzene, and with sufficient liquid HF to dissolve said feed and associated BF_3, maintaining said solution at a temperature between about 20° and 100° C. for a time sufficient to reach an equilibrium composition, and removing HF and BF_3 from the isodurene-enriched product hydrocarbons.

2,659,763

XYLENE SEPARATION

Robert L. Humphreys, El Cerrito, Glenn C. Brock, Richmond, and Charles K. Reynolds, El Cerrito, Calif., assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application September 16, 1950, Serial No. 185,234
12 Claims. (Cl. 260—674)



1. In a process for the separation of paraxylene from hydrocarbon mixtures consisting predominantly of xylene isomers comprising the steps of cooling the mixture to crystallize paraxylene and filtering the cooled mixture to separate paraxylene crystals from the mother liquor, the improvement which comprises introducing a small amount in the range 0.01 to 5% by volume of a material selected from the group consisting of alcohols containing 1 to 4 carbon atoms, ketones containing 3 to 4 carbon atoms and aldehydes containing 1 to 4 carbon atoms into the hydrocarbon mixture prior to the separation of the paraxylene crystals from the mother liquor.

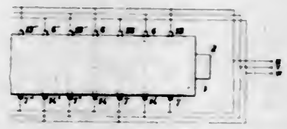
ELECTRICAL

2,659,764

FURNACE AND PROCESS FOR ELECTRICALLY MELTING GLASS

Walther König, Vienna, Austria, assignor to Mitterberger Glashuetten Gesellschaft m. b. H., Salzburg, Austria, a corporation of Austria

Application January 29, 1951, Serial No. 208,306
Claims priority, application Austria January 28, 1950
10 Claims. (Cl. 13—6)



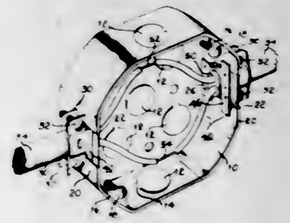
1. A furnace for electrically melting glass which comprises an oblong tank having longitudinal side walls, main electrodes extending from each longitudinal side wall across the tank, the main electrodes of one side wall being staggered from those of the other in the longitudinal direction of the tank, an auxiliary electrode provided opposite each main electrode in the opposite side wall and projecting into the tank a lesser distance than the main electrode, a source of electric current having a plurality of electrically different terminals, and means for electrically connecting each main electrode and the opposite auxiliary electrode to one of said terminals, with the electrodes on either side of a given electrode being connected to a different terminal than the given electrode, in respect of the longitudinal direction of the tank.

2,659,765

ELECTRICAL SPLICE BOX

Joseph L. Dunn, Randolph Township, Montgomery County, Ohio

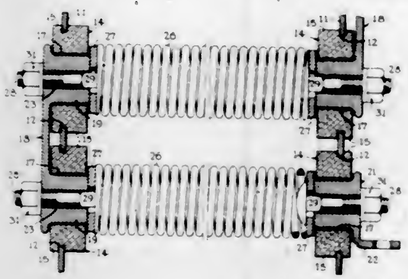
Application December 28, 1951, Serial No. 263,739
4 Claims. (Cl. 174—65)



1. A junction box for use in connecting an additional circuit to a cable already installed, said

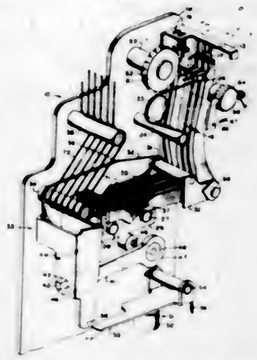
junction box being provided with a bottom and side walls, the bottom and side walls being provided with knock-out plugs, a pair of oppositely disposed side walls being provided with slots extending inwardly towards the bottom of the side walls, two pairs of clamping members cooperating with said slots to permit the unsevered cable to be inserted in the slots and still be capable of being fastened to the box, there being one pair for each slot, one of the clamping members of each pair being provided with a flange overlapping the inner wall of the box and welded thereto, said clamping member having a clamping portion located on the outside of the box, said clamping portion being provided with extensions having threaded apertures, the cable being positioned on one clamping member of each pair, the other clamping member of each pair being provided with a wall portion used in closing the slot above the cable already installed, said second clamping member being provided with apertures, screws extending through said apertures and threadedly engaging the extensions for clamping the cable in position between the clamping members of each pair, the wall portion of the second clamping member of each pair being provided with a score line or reduced portion permitting the breaking off of a part of the wall portion so as to reduce the wall portion to the proper height, and a cover for closing the box, said cover contacting the walls of the box and associated with the wall portions of the clamping members to close the box.

2,659,766
INSULATOR MOUNTING
Chin Jim Fot, Logan, W. Va., assignor to Guyan Machinery Company, Logan, W. Va., a corporation of West Virginia
Application May 23, 1950, Serial No. 163,746
2 Claims. (Cl. 174—153)



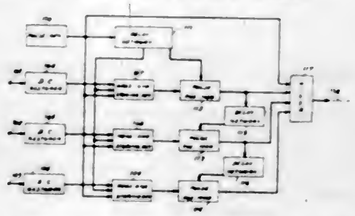
1. In an electrical device the combination of an apertured supporting plate, a rigid insulator supported in an aperture in said plate, the periphery of the insulator and the margin of said aperture being formed with inter-engaging lugs and slots of the bayonet lock type so arranged that the insulator may be inserted axially and thereafter locked in place against axial withdrawal by a predetermined partial rotation of the insulator about its axis, said insulator having a non-circular aperture therein; a conductor member having a portion shaped to fit said non-circular aperture and engaged therein to inhibit relative rotation of the conductor member and the insulator; and means serving to hold said conductor member against rotation, and thus inhibiting rotation of said insulator.

2,659,767
TAPE CONTROLLED TELEGRAPH TRANSMITTER
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application November 1, 1951, Serial No. 254,319
14 Claims. (Cl. 178—17)



1. In a tape sensing device, a plurality of articulated linkages, a first contact element, means for holding one link in each linkage in engagement with said first contact, a second contact element spaced from said linkage, means for actuating certain of the articulated linkages in accordance with permutated apertures in the tape, said actuation causing the links engaging the first contacts to pivot about said first contact into engagement with the second contact.

2,659,768
MULTIPLEX PULSE TRANSMISSION SYSTEM
Gaston Xavier Nöel Potier, Versailles, France
Application February 1, 1951, Serial No. 208,892
1 Claim. (Cl. 179—15.6)

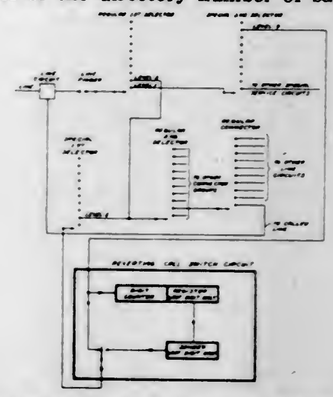


In a time division multiplex electric pulse communication system including an integer number N of communication channels, each of which transmits a modulation signal consisting of a signal voltage varying in time, said system using N interleaved trains of recurrent communication pulses and at least one train of periodic synchronization pulses of period T, a communication link having a transmitting end and a receiving end, a transmitting device comprising a pulse generator of a basic frequency generating periodic pulses of period T, a first delay network fed from said generator and delivering delayed pulses of same said basic frequency, direct-current restorers in number N respectively modifying said modulation signals so as to transform them into unipolar signals, measuring and storing devices in number N for periodically measuring the instantaneous amplitude of each of said modified modulation signals and storing its measured amplitude as an electric voltage, each of said devices

having input and output terminals and being controlled on one hand by control pulses from said generator and on the other hand by delayed pulses from said first delay network, means for respectively applying each of said modified modulation signals from each one of said direct-current restorers to input terminals of one corresponding measuring and storing device, a first position modulator fed on one hand from the output terminals of a first of said measuring and storing devices and on the other hand from delayed pulses from said first delay network, a second position modulator fed on one hand from the output of said first position modulator and on the other hand through a second delay network from the output terminals of a second of said measuring and storing devices, further position modulators associated with each other through further delay networks and with further measuring and storing devices in the same way as said first and second position modulators are associated with said first and second measuring and storing devices and in sufficient number for allowing utilization of signals from all the N said measuring and storing devices, means for impressing all position modulated pulses from all of said modulators together with non-modulated synchronization pulses derived from said generator upon the sending end of said communication link, means for impressing all the pulses received at the receiving end of said communication link upon said receiving device, said receiving device comprising a synchronization pulse selector segregating the synchronization pulses from the other received pulses, a counting pulse selector with its input fed from all the received pulses and controlled by control pulses derived from said synchronization pulse selector and delivering at N pairs of output terminals N output signals of constant amplitude and of duration respectively proportional to the time intervals separating two successive pulses pertaining to two adjacent trains of received pulses, said counting pulse selector respectively directing each one of said constant amplitude signals towards one of N different circuits selected according to the time of occurrence with respect to the synchronization pulses of said two successive pulses, a number N of measuring and storing devices each respectively fed at its input terminals from one of said N different circuits and controlled by periodic pulses issued from said synchronization pulse selector, each said measuring and storing device storing for a predetermined time interval at most equal to T a voltage proportional to the duration of that one of said constant amplitude signals which is applied to its input terminals and delivering said voltage at its output terminals, amplitude modulators in number N respectively fed on one hand from voltage delivered at output terminals of each one of said measuring and storing devices and on another hand from pulses from said synchronization pulse selector, demodulators each respectively fed from the output of one of said amplitude modulators and means for impressing signals from the output of each one of said demodulators upon one of N corresponding utilization circuits.

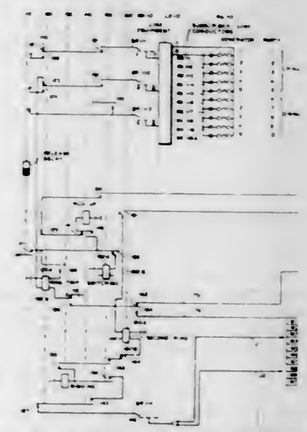
2,659,769
TELEPHONE REVERTING CALL SYSTEM
George Elliott, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application September 30, 1949, Serial No. 118,763
26 Claims. (Cl. 179—17)

1. In an automatic telephone system, a party line, a calling station and a called station on said line, a reverting call device, one or more selector switches, a connector switch, means responsive to the digital impulses of a predetermined digit or digits received from said calling station for setting said selector switch or switches to select said reverting call device, means in said reverting call device responsive to a portion of the digital impulses of the directory number of said called



station received from said calling station for repeating said portion of the received impulses to extend a connection from said reverting call device to said connector switch, and further means in said reverting call device responsive to the remainder of the digital impulses of said directory number for storing the last mentioned impulses for subsequent transmission of a replica of said stored impulses to said connector switch.

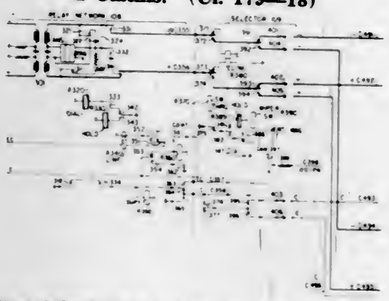
2,659,770
RINGING CONTROL CIRCUIT FOR TELEPHONE SYSTEMS
George Elliott, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application December 11, 1952, Serial No. 325,428
16 Claims. (Cl. 179—17)



1. In a dial telephone system, a connector having a plurality of different groups of connector terminals to be directively selected in response to dial impulses, each of said groups of terminals including at least one talking conductor terminal, means to connect the talking conductor terminals of a plurality of different groups of con-

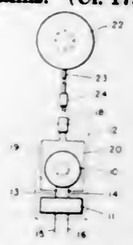
nector terminals in parallel to a party line, a first conductor, a plurality of different frequency sources of ringing current, means connecting each of said plurality of different frequency sources of ringing current to said first conductor in time sequence within recurring ringing cycles, a second conductor, means connecting each of said plurality of different frequency sources of ringing current to said second conductor in time sequence within recurring ringing cycles, the connection of said frequency sources to said second conductor in a given recurring ringing cycle being differently timed with respect to the connection of said frequency sources to said first conductor in the same recurring ringing cycle to provide a time interval between the connection of similar frequency sources to said conductors equal to at least the minimum interval between ringing current applications to a called line in a given ringing cycle, and means including a terminal of the directively selected group of terminals of said connector for predetermining the connection of said first and second conductors to the directively selected talking conductor terminal in timed relation coincident with the connection of a predetermined one of said frequency sources to said first and second conductors whereby the frequency of ringing current and number of applications of ringing current in a given ringing cycle to a party line may be selectively determined by the directive operation of said connector.

2,659,771
AUTOMATIC SWITCH FOR TELEPHONE SYSTEMS
Harvey W. Balzer, Downers Grove, and Pier Bakker, Chicago, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application August 25, 1950, Serial No. 181,511
11 Claims. (Cl. 179—18)



1. In a telephone system, an automatic switch comprising an incoming trunk line including a pair of line conductors and a control conductor and an extra control conductor, a first line relay provided with a first low resistance winding and a second high resistance winding, a source of first potential, a first connection from said source of first potential via said first winding to said extra control conductor, a second connection from said source of first potential via said second and first windings in series to said extra control conductor, a supervisory relay having a restored position completing said first connection and interrupting said second connection and having an operated position completing said second connection and interrupting said first connection, a source of second potential adapted to be selectively connected to said extra control conductor in order selectively to energize said first winding or said first and second windings depending upon the completion of said first or said second connections respectively, said first line relay being operated when either said first winding is energized or said first and second windings are energized, a second line relay provided with first and second windings, a loop circuit adapted to be selectively connected to said first and second windings of said second line relay in order selectively to energize said windings in series, means responsive to initial operation of said first line relay in response to initial connection of said source of second potential to said extra control conductor for connecting said loop circuit to said windings of said second line relay in order to operate said second line relay, a wiper set, a line accessible to said wiper set, means responsive to restoration and reoperation of said first line relay in response to one or more interruptions of said source of second potential connected to said extra control conductor in accordance with the impulses of a first digit for interrupting said loop circuit in order to restore and reoperate said second line relay a corresponding number of times, means responsive to restoration and reoperation of said second line relay for operating said wiper set to select said line, means responsive to selection of said line by said wiper set for connecting said loop circuit to said line via said wiper set, and means included in said loop circuit controlled responsive to an answer control returned from said line to said loop circuit for operating said supervisory relay and controlled responsive to a disconnect control returned from said line to said loop circuit for restoring said supervisory relay.

2,659,772
TELEPHONE ADAPTER FOR HEARING AIDS
Janvier F. O'Hara, Monrovia, Calif.
Application September 13, 1948, Serial No. 48,992
12 Claims. (Cl. 179—107)



1. In combination with a hearing aid having a microphone, amplifier and ear receiver, a sound pickup means remote from the hearing aid amplifier and microphone and adapted to be held against a telephone receiver and including an auxiliary microphone, and means for detachably connecting the auxiliary microphone to the hearing aid amplifier in parallel with the hearing aid microphone.

2,659,773
INVERTED GROUNDED EMITTER TRANSISTOR AMPLIFIER
Harold L. Barney, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 7, 1949, Serial No. 97,676
6 Claims. (Cl. 179—170)

1. An amplifier of which the active element includes a transistor comprising a semiconductive body having a base electrode, an emitter electrode, and a collector electrode all in operative contact therewith, a source connected to supply potentials to said electrodes for transistor operation, input terminals connected to the emitter and to the collector, respectively, output terminals connected to the emitter and to the base, respectively, and a load connected to said output terminals, the resistance of said load being proportioned according to the formula

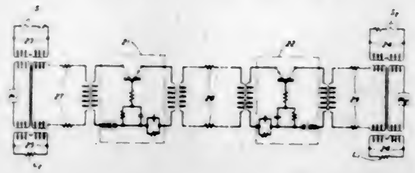
$$R_L=\frac{r'_e r_c}{r_m-r'_e-r_c}-r_b$$

where

$r'_e=r_e+R_e$
r_e is the emitter resistance of the transistor
r_c is the collector resistance of the transistor
r_b is the base resistance of the transistor
r_m is the mutual resistance of the transistor
R_e is an external resistor connected in series with the emitter,

said amplifier being characterized by an input impedance of substantially zero magnitude.

2,659,774
BIDIRECTIONAL TRANSISTOR AMPLIFIER
Harold L. Barney, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 7, 1949, Serial No. 97,677
6 Claims. (Cl. 179—170)



1. An amplifier of which the active element includes a transistor comprising a semiconductive body having a base electrode, an emitter electrode, and a collector electrode all in operative contact therewith, a source connected to supply potentials to said electrodes for transistor operation, input terminals connected to the base and to the collector, respectively, output terminals connected to the base and to the emitter, respectively, and a load connected to said output terminals, the resistance of said load being proportioned according to the formula

$$R_L=\frac{r'_b(r_m-r_c)}{r'_b+r_c}-r_e$$

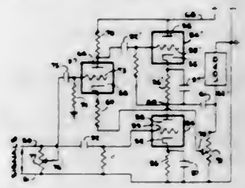
where

$$r'_b=r_b+R_b$$

r_e is the emitter resistance of the transistor
r_c is the collector resistance of the transistor
r_b is the base resistance of the transistor
r_m is the mutual resistance of the transistor
R_b is the external resistor connected in series with the base,

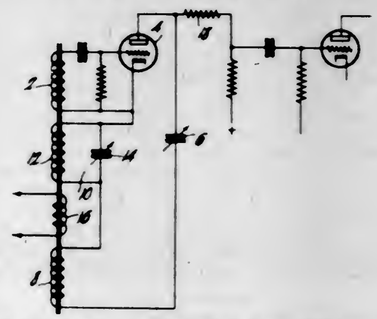
said amplifier being characterized by an input impedance of substantially zero magnitude.

2,659,775
AMPLIFIER CIRCUIT HAVING SERIES-CONNECTED TUBES
Wallace H. Coulter, Chicago, Ill.
Application March 21, 1949, Serial No. 82,677
8 Claims. (Cl. 179—171)



1. An amplifier having a first tube and a second tube, each tube having at least a plate, a grid, and a cathode, the cathode of the first tube being connected to the plate of the second tube at a common point, a source of D. C. plate potential connected across the tubes from the plate of the first tube to the cathode of the second tube, said cathode of the second tube being at signal ground potential, a load connected between said common point and ground, a signal input source, a phase inverter comprising a third tube having at least a plate, a grid and a cathode, said input source being connected to the grid of the said third tube, the plate of the third tube being connected to the grid of one of said first and second tubes, the input source also being connected to the grid of the other of said first and second tubes, a feedback path connected from a potential point of the load connection of said amplifier to the cathode circuit of the inverter whereby to apply a feedback potential thereto and cause the inverter to drive said one tube with a signal derived from said feedback path in addition to the signal input source to compensate for degeneration inherent in said first tube and produce substantially equal output of the said first and second tubes of said amplifier.

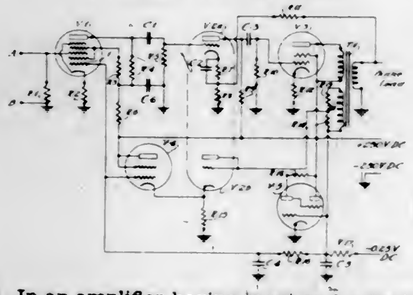
2,659,776
SELECTIVE RECEIVING AND AMPLIFYING CIRCUIT
Karl Nowak, Vienna, Austria
Application May 13, 1949, Serial No. 93,022
4 Claims. (Cl. 179—171)



1. A device for receiving and amplifying a desided signal comprising a tube having at least a plate, a grid and a cathode, a parallel resonant circuit tuned to the desired signal and having an inductance, a degeneration coil connected in series with said tuned circuit between said plate and said cathode, an input coil inductively coupled to each of said other coils and physically

placed between them on a common core so that said inductance and said degeneration coil receive substantially all their energy from said input coil, and a grid coil mounted on said core adjacent said inductance in such manner as to receive substantially all its excitation directly from said inductance.

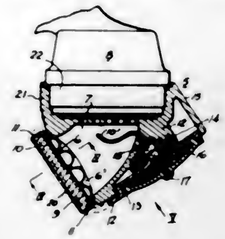
2,659,777
COMPRESSION AMPLIFIER FOR RADIO CIRCUITS
Wesley R. Schum, Chicago, Ill.
Application February 9, 1950, Serial No. 143,217
2 Claims. (Cl. 179—171)



1. In an amplifier having input and output circuits, and an amplifying discharge device connected between said circuits and inversely responsive in its amplification factor to the magnitude of a negative biasing potential; a compression circuit comprising, in combination, a transformer winding inductively coupled with the output circuit and a circuit including a first resistor connected across the winding and energized therefrom, the voltage across said first resistor being thereby proportional to the output signal of the amplifier; a rectifier, a second resistor connected to the cathode of the rectifier, and a capacitor all connected in series with said first resistor whereby conduction of the rectifier in response to voltage across said first resistor charges the capacitor to a negative voltage; connecting means supplying said negative capacitor voltage as a bias to the amplifying device; a control discharge device having an anode for connection to a constant voltage source, a cathode connected to said rectifier cathode, and a control electrode connected to said capacitor to receive the negative capacitor voltage; current conduction by said control device thereby creating a voltage across said second resistor which opposes conduction by said rectifier; whereby an increase in the output signal of the amplifier increases the voltage across said first resistor, which in turn causes said rectifier to conduct and charge said capacitor negatively, thereby reducing the amplification factor of the amplifying device and reducing the current through said control device, the latter change reducing the opposing voltage across said second resistor to permit the rectifier to charge said capacitor still more negatively to disproportionally further decrease said amplification factor.

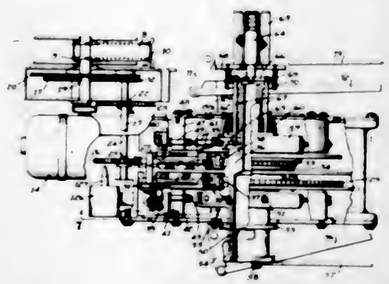
2,659,778
DEVICE FOR TREATING WITH DISINFECTANT THE MOUTHPIECES OF TELEPHONES AND LIKE APPARATUS
Virgilio Fraschetti, London, England
Application September 11, 1950, Serial No. 184,235
2 Claims. (Cl. 179—185)

1. A telephone instrument comprising a mouthpiece element having a speech opening formed in a curved wall and having a speech passage extending to that opening, a disinfecting element having a wiper component engaging the curved wall, and a distribution component within the speech passage, means supporting the disinfecting element for swinging movement about the



axis of curvature of the curved wall so that the wiper component moves across the curved wall to close and to open the speech opening and to distribute disinfectant, and means to swing the disinfecting component automatically when the instrument is moved.

2,659,779
APPARATUS FOR CONTROLLING THE MOVEMENT AND STOPPING OF A BAND OF MATERIAL
Allan M. Haley, Los Angeles, Calif., assignor of twenty-five per cent to Kenneth L. Stout and twenty-five per cent to Kenneth Krumpholz, both of Los Angeles, Calif.
Application June 2, 1947, Serial No. 751,657
8 Claims. (Cl. 200—5)



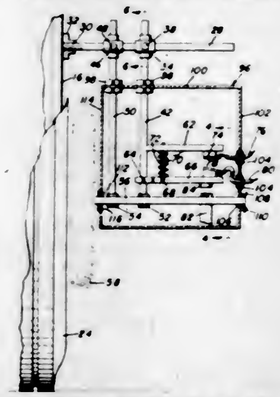
1. In an apparatus of the class described, a mounting member having means defining an axis, a plurality of groups of operating members mounted on said mounting member generally concentrically about said axis, each of said groups being axially offset from the other groups, each of said groups comprising a plurality of operating members spaced circumferentially about said axis, means mounting each of said operating members on said mounting member for limited movement relative thereto, means mounting a control for rotation about said axis and for sliding movement therealong, said control having means adapted to engage a selected operating member and move the same through said limited movement, manually operable key means arranged to slide said control to a desired position along said axis to select a desired group of said operating members, and further manually operable key means arranged to rotate said control about said axis to engage and move a selected operating member of said desired group.

2,659,780
SAFETY APPLIANCE FOR SWITCHES
Harold C. Berger, South Ozone Park, N. Y.
Application January 4, 1952, Serial No. 264,889
2 Claims. (Cl. 200—42)



2. In combination, a switch box having a plurality of buttons aligned with one another, a guard device for one of the push button elements comprising a bracket having inwardly bent ends, a hinge pin connected between the ends, a guard arm pivotly connected to the hinge pin and spring means surrounding the hinge pin and urging the guard arm toward the button, projection means on the guard arm engageable with the switch box to prevent engagement of the guard arm with the end of the switch button at all times, spring elements surrounding the hinge pin and disposed on opposite sides of the guard arm to centralize the guard arm relative to the push button whereby to gain access to the push button the guard arm can be longitudinally adjusted along the hinge pin or pivoted thereupon.

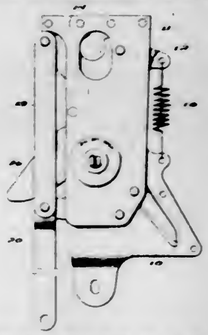
2,659,781
FLAT TIRE SIGNAL
Raymond B. Anderson, Oklahoma City, Okla.
Application June 12, 1952, Serial No. 293,152
9 Claims. (Cl. 200—61.23)



1. A warning device for indicating improper inflation of a tire, said device comprising supporting means including a horizontal member, a vertical member adjustably carried by said horizontal member, a horizontal shaft rotatably journaled at the lower end of said vertical member, a tire engageable rotatable member rigidly secured to said shaft for rotation therewith, a switch carried by said supporting means adjacent said shaft for actuation by a projecting element on said shaft.

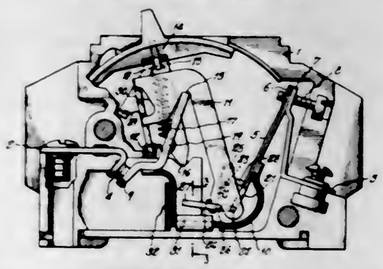
2,659,782
LATCH AND INTERLOCK
Robert W. Wolf, Philadelphia, Pa., assignor to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 16, 1950, Serial No. 185,269
11 Claims. (Cl. 200—61.62)

1. A control device for operating a latch mounted for movement to and from a position of latching engagement with a cooperating member, and for controlling the operation of other apparatus comprising, a spring biassing said latch to automatically engage and retain said member when it is moved to engagement position, control means for said other apparatus normally occupying a position in which said other apparatus is inoperative, a control element, a first surface on said control element for operating said control means, a second surface on said control element for operating said latch, said control element having an "on" position in which said first surface holds said control means in a position to cause the operation of said other appara-



tus and said second surface is in a position permitting said latch to move both to and from a position of engagement with said member, a "release" position in which said second surface maintains said latch disengaged from said member and said first surface permits said operating means to assume its normal position, and a "neutral" position intermediate said first two positions in which said first surface permits said operating means to assume its normal position, the intermediate location of said "neutral" position requiring movement of the control element through said "neutral" position when moving between said "on" and "release" positions.

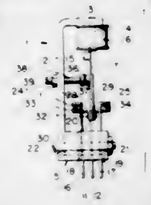
2,659,783
ELECTRIC CIRCUIT BREAKER
Robert T. Casey, Bristol, Conn., assignor to General Electric Company, a corporation of New York
Application July 17, 1951, Serial No. 237,256
5 Claims. (Cl. 200—88)



1. A circuit breaker having circuit making and breaking mechanism and a housing therefor, a trip member for said mechanism biased for movement to an open circuit position, a latch member movably mounted on said trip member and movable with said trip member, a bimetal member normally engaging said latch member so as to hold said trip member against its bias in a closed circuit position, means for heating

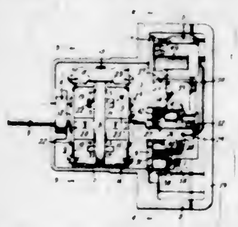
said bimetal member in response to the current in the circuit breaker so as to cause said bimetal member to move out of engagement with said latch member upon the occurrence of a light overload current thereby to release said trip member, an armature connected to said latch member, and magnetic means fixed in said housing responsive to the current in the circuit breaker for moving said armature and said latch member upon the occurrence of a heavy overload current thereby to move said latch member out of engagement with said bimetal member and release said trip member.

2,659,784
VIBRATOR
Stephen F. James and Esther D. James, Chicago, Ill.
Application February 12, 1952, Serial No. 271,214
3 Claims. (Cl. 200—90)



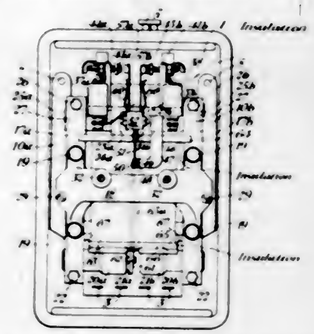
1. In a vibrator, an inverted L-shaped frame, a pole piece depending from and secured to the horizontal leg of said frame, an electromagnet attached to said pole piece, a stack, a reed anchored in said stack, an armature-weight carried by the free end of said reed, a pair of relatively rigid oppositely extending movable contact arms attached to said reed adjacent said stack and extending at right angles to said reed, a contact on the free ends of each of said arms extending upwardly therefrom, a pair of cooperating relatively rigid stationary contact arms anchored in said stack and each having an oppositely extending leg, extending in a plane parallel to the plane of said movable contact arms, and a contact on the free ends of each of said legs depending therefrom, said stationary contact arms each provided with an opening through which said movable contacts extend.

2,659,785
SWITCH MECHANISM
William Lawrence Butler, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application April 5, 1946, Serial No. 659,717. Divided and this application March 17, 1951, Serial No. 216,216
8 Claims. (Cl. 200—92)



1. A direction responsive switch mechanism comprising, a shaft mounted for continuous rotation in either of two directions, an eddy current disc secured to said shaft, a magnet supporting structure rotatably mounted adjacent said disc, a plurality of magnets mounted on said supporting structure for producing eddy currents in said discs, a switch operating member secured to said supporting structure, a switch member actuated by said operating member between two circuit controlling positions, a pair of pivoted arms extending in approximately parallel relation on opposite sides of and engaging said operating member, spring means biasing said arms to predetermined positions in which said switch member is held by said operating member in a neutral position between said two circuit controlling positions, and releasable latching means arranged to engage said pivoted arms for selectively preventing and permitting the movement of said arms whereby the actuation of said switch member is respectively prevented and permitted upon rotation of said disc.

2,659,786
CODE FOLLOWING RELAY
Andrew Hufnagel, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application June 27, 1950, Serial No. 170,595
13 Claims. (Cl. 200—93)

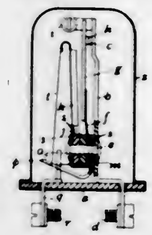


1. A relay comprising a stationary contact assembly, a movable contact assembly, spaced support means for supporting said movable contact assembly for oscillation, an armature fixed adjacent one end to and supported by said movable contact assembly and forming a unitary structure therewith, a core structure, and an operating winding between said spaced support means and on said core structure and surrounding said armature to oscillate said armature about an axis intermediate its ends whereby said movable contact assembly is oscillated to engage and disengage said stationary contact assembly.

2,659,787
THERMALLY CONTROLLED ELECTRIC SWITCH
Alfred Donald Prickett, Handsworth, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application April 23, 1951, Serial No. 222,411
Claims priority, application Great Britain May 5, 1950
2 Claims. (Cl. 200—113)

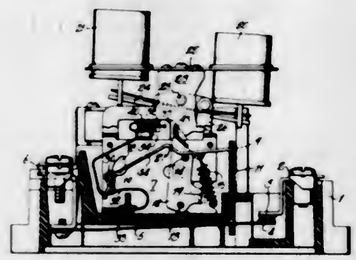
1. A thermally controlled electric switch for giving flashing signals comprising, in combination, a spring loaded movable member including an iron part, a contact carried by said movable member, a fixed contact to which said first contact is normally held by the spring loading of the

movable member, a spring loaded member including a permanent magnet arranged adjacent the movable member and adapted to actuate the latter in a direction to separate the contacts, a thermally extensible wire-like element connected to said second spring loaded member to hold the latter in spaced relation to said first member, and a stop for limiting movement of said first



member, the wire-like element being included in an electric circuit with the fixed and movable contacts and the arrangement being such that current flowing through the wire-like member causes expansion thereof to permit the permanent magnet to move near enough to the iron member to effect separation of the contacts which are thereby intermittently opened and closed.

2,659,788
CIRCUIT BREAKER SWITCH UNIT
Robert T. Casey, Bristol, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application December 28, 1949, Serial No. 135,376
11 Claims. (Cl. 200—116)



3. A circuit breaker comprising cooperating switch contacts, an arm having one end connected to move one of said contacts and formed with a transverse cam portion intermediate its ends, means for pivotally supporting the other end of said arm and providing for longitudinal movement of said arm in a predetermined direction, current-responsive latching means for securing said pivoted end in a predetermined pivoted position, an operating projection mounted for movement longitudinally of said arm, and a spring connected to said arm for biasing said arm about said pivoted end against said projection to an open circuit position so that movement of said projection in said predetermined direction over said cam portion moves said arm about said pivoted end to a closed circuit position and release of said pivoted end by said current-responsive latching means effects movement of said cam portion over said projection with longitudinal movement of said arm by said spring in said predetermined direction to an open circuit position.

2,659,789
DEVICE FOR DETECTING BLOWN FUSES
Adolph Lang, New York, N. Y.
Application May 18, 1951, Serial No. 226,997
1 Claim. (Cl. 200—121)



As a new article of manufacture, an attachment for indicating the blowing of an electric fuse of the type having a closed housing provided with a window surrounded by a transparent or translucent annular flange, said attachment comprising a ring of opaque material slitted perimetrally and in axial direction, thereby forming a pair of outwardly movable wings each extending over a major fraction of a quadrant of said ring and adapted resiliently to engage said flange, a disk of light-transmissive material surrounded by and supported on said ring, and a phosphorescent coating on said disk, said ring shielding said coating from excitation by a flash from an adjacent fuse.

2,659,790
CARTRIDGE-TYPE ELECTRICAL FUSE AND METHOD OF MANUFACTURING SAME
August P. Jurgensen, New York, N. Y., assignor to General Fuse Company, Jersey City, N. J., a corporation of New Jersey
Application November 30, 1948, Serial No. 62,733
6 Claims. (Cl. 200—131)

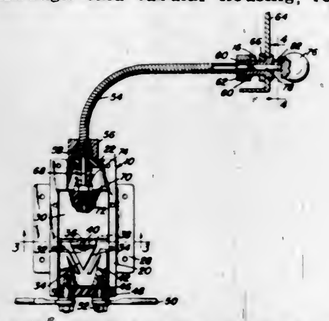


1. An electrical fuse comprising a fuse casing composed of a tube of insulating material and metallic end caps mounted on and closing each end of said tube, a fuse link disposed generally axially within said tube having edge portions sloping from opposite ends of the link toward said tube and inwardly toward the central portion of said link, and soldered joints between the ends of said link and the internal surfaces of said caps, each joint comprising a body of solder material having an area of connection with the fuse link extending inwardly from the end plate of the cap along the link and the sloping edge portions thereof and extending from opposite portions of the internal surface of the tube to the fuse link at the axis of said tube, said connection with the link being formed by displacement by the tube of solder material of the joint from the perimetric edge thereof toward the axis of the tube.

2,659,791
SAFETY SWITCH
Lee A. Dickinson, Ben Lomond, Calif.
Application November 27, 1950, Serial No. 197,700
1 Claim. (Cl. 200—161)

A switch comprising a housing of dielectric material, said housing having a uniform noncircular passage therein, a plunger of insulating

material slidably received by said passage, spaced contacts mounted in said housing, a bridging contact carried by said plunger, actuating means for said plunger comprising a flanged sleeve, a flexible tubular housing fixed to the end of said sleeve and to the end of the switch housing, said switch housing having an aperture registering with the bore of said tubular housing, a flexible actuating cable attached to said plunger and extending through said tubular housing, resilient



means in said switch housing yieldingly urging said plunger into switch bridging relation, an actuator rod slidably and rotatably received in said sleeve, said rod being rotatively connected to said flexible cable, an actuating knob on said rod, a spacing finger fixed on said knob and extending into contact with the flange of said sleeve, said flange having a bore adapted to receive said finger.

2,659,792

ELECTRIC SWITCH

Raymond H. Boardman, Hartford, Conn., assignor to The Hart Manufacturing Company, Hartford, Conn., a corporation of Connecticut

Application February 21, 1950, Serial No. 145,359

3 Claims. (Cl. 200—168)



1. An electric switch casing having a bottom provided with a convex surface portion and an open top, a removable cover for said open top, a pair of substantially parallel arms connected at one end to opposite edges of said cover and extending along opposite sides of said casing to said bottom, the free ends of said arms having openings therein disposed upwardly relative to the lower-most region of said convex surface portion, and locking means comprising a removable spring member flexed into engagement with said convex surface portion of said bottom and extending across said bottom between said legs and disposed at its ends within said openings in said legs to secure said cover to said casing.

2,659,793

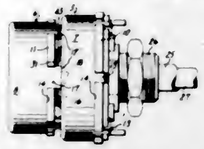
VARIABLE RESISTANCE CONTROL DEVICE

Arthur M. Daily and Mervin B. Arisman, Elkhart, Ind., assignors to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana

Application November 30, 1951, Serial No. 259,271

12 Claims. (Cl. 201—55)

1. In combination: two electrical control units each having opposite front and rear walls in fixed spaced apart relationship, said units being fixed together in tandem relationship with the front wall of the rear unit in juxtaposition to the rear wall of the front unit; a tubular operating shaft for the front unit rotatably journalled in the front wall of said front unit and projecting rearwardly into the interior of the front unit to have driving engagement therein with mechanism to be actuated; a second operating shaft rotatable



inside said tubular shaft and projecting rearwardly through apertures in said juxtaposed walls of the two units into the interior of the rear unit to have driving engagement therein with mechanism to be actuated; and means on each of said operating shafts defining abutments overlying inner surfaces of the rear wall of the front unit and cooperating with said rear wall thereof to support each shaft against rearward end thrust thereon.

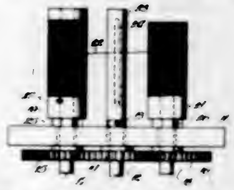
2,659,794

CONTINUOUSLY VARIABLE RESISTOR

William J. Mairs, Waltham, Mass., assignor to Technology Instrument Corporation, Acton, Mass.

Application October 30, 1951, Serial No. 253,815

2 Claims. (Cl. 201—59)



1. A continuously variable resistor comprising a vertical support panel, two shafts mounted perpendicular to one side of said panel, two insulated grooved non-cylindrical drums mounted on said shafts, one of said drums being fixed to its shaft, the other drum being mounted for rotation relative to its shaft, means for simultaneously rotating said shafts, a resistance wire mounted in the grooves of said drums to be unwound on to the other, a sliding stationary contact mounted between said drums parallel to the surfaces thereof and beyond a plane tangent to the surfaces of said drums, means for maintaining substantially constant contact between said sliding stationary contact and said wire comprising a helical spring interposed between the shaft and said latter drum tending to produce rotation of said drum relative to its support shaft.

2,659,795

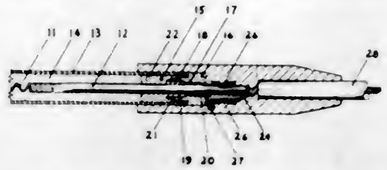
SHEATHED RESISTOR ELECTRIC HEATER

Alben C. Boggs, Pittsburgh, Pa., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application November 1, 1951, Serial No. 254,289

2 Claims. (Cl. 201—67)

1. An electric heating element comprising a hollow sheath having an opening therein, a resistance conductor member disposed within said sheath and having a terminal end projecting through said sheath opening, a refractory heat conducting material within said sheath for electrically insulating said conductor member and its terminal end from said sheath, an insulated conductor wire having an exposed end electrically connected to the terminal end of said resistance conductor, and a molded protective covering of



insulating material enclosing said electrical connection and in hermetically sealed engagement with the defining surface of adjoining parts of said sheath and the insulated end of said wire whereby to restrict foreign material from entering around said protective covering and affecting the operation of said heating element.

2,659,796

ELECTRIC WELDING APPARATUS

Nelson E. Anderson, Berkeley Heights, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application February 5, 1951, Serial No. 209,430

6 Claims. (Cl. 219—8)



6. Gas shielded arc welding apparatus for use with long lengths of chemically clean flexible aluminum electrode wire comprising a manual gun containing an inner wire guide assembly having a surface in contact with said wire of a non-galling electrically non-conducting material, a welding current contact member nearer the welding arc than said wire guide assembly, a surrounding outer gas conducting and shield forming assembly, a flexible casing assembly of fixed length connected to the rear end of said gun to convey aluminum welding wire to said gun, said casing having an internal surface of nylon in contact with said wire, and power driven wire feed means at the end of the flexible casing remote from said gun for continuously and uniformly pushing said aluminum electrode wire through said casing, said wire guide and said contact element to the welding arc.

2,659,797

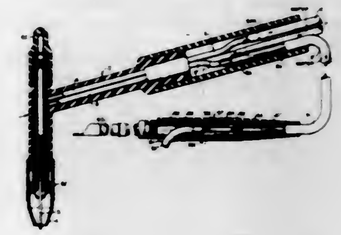
ARC WELDING APPARATUS

Nelson E. Anderson, Berkeley Heights, and Edmund T. Sullivan, Laurence Harbor, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application March 1, 1951, Serial No. 213,446

13 Claims. (Cl. 219—8)

1. Arc welding apparatus comprising a tubular structure, means for retaining an electrode in coaxial relation with said tubular structure with the end of the electrode projecting out of the lower end thereof, a nozzle-holding sleeve surrounding the lower end of said tubular structure and forming therewith an annular water chamber, a gas nozzle carried by said nozzle-holding sleeve and into which the electrode projects from said tubular structure, a pair of O-rings spaced apart axially of the nozzle-holding sleeve and each positioned between it and the tubular structure, the O-rings serving as water seals at the upper and lower ends of said annular water chamber and serving to frictionally hold the nozzle-holding sleeve on said tubular structure, a third O-ring located at the upper



end of the nozzle-holding sleeve, the tubular structure having an external shoulder and the nozzle-holding sleeve having an internal conical surface between which and said shoulder the third O-ring is positioned to thereby prevent upward movement of the nozzle-holding sleeve beyond such O-ring, and means for supplying water to and discharging it from said annular water chamber for circulation therein.

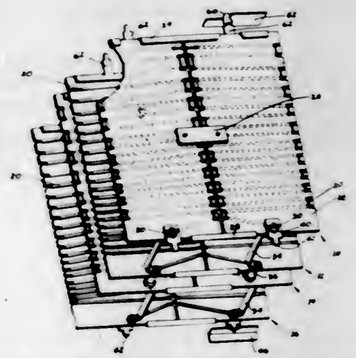
2,659,798

CONSTRUCTION FOR ELECTRIC HEATERS

Bror G. Olving, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware

Application September 3, 1949, Serial No. 114,019

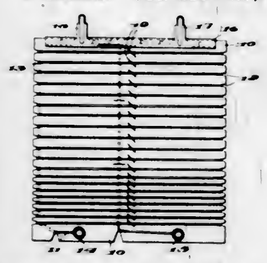
2 Claims. (Cl. 219—19)



2. In an electrically heated appliance, the combination with a case-and-frame structure having an exposed, electric-conducting surface, an electrict heating element comprising an insulating sheet of mica or the like which may become electrically conducting at operating temperatures and a resistance heating conductor wound on said sheet; of heat-resisting, electric-insulating tabs separate from but fastened to said sheet near an edge thereof and extending beyond the margin thereof for directly engaging said case-and-frame structure and for supporting said sheet thereon out of contact therewith and for providing a high insulation against electric leakage from said conductor to said exposed conducting surface particularly during heated operation of the appliance, said tabs being formed of a laminated insulating

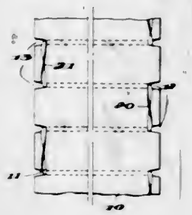
material different from the material of said sheet and impregnated with silicone resin and having an electric resistivity at said operating temperatures that is very high compared to that of the material of said sheet.

2,659,799
ELECTRIC HEATING ELEMENT
Murray Ireland, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application September 20, 1950, Serial No. 185,835
3 Claims. (Cl. 219—19)



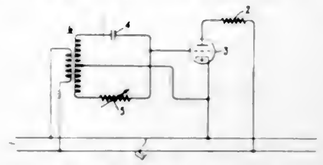
1. An electric heating element comprising a flat electric insulating form and an electric resistance wire having spaced straight windings extending across the form and wire staples wider than the wire of the windings and contacting said wire securing the intermediate portions of the individual windings against one face of the form and extending through and being anchored at the other face of the form, said staples extending diagonally to the direction of the windings and adjacent staples lying in spaced relation, and the legs of each staple being spaced by an air gap from the winding secured by the staple.

2,659,800
ELECTRIC HEATING ELEMENT
Waldo H. Zander, Brookville, Ohio, assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application September 20, 1950, Serial No. 185,877
3 Claims. (Cl. 219—19)



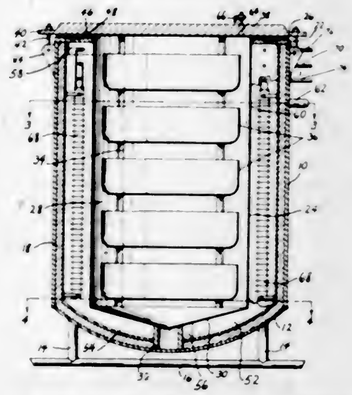
3. An electric heating element comprising a flat electric insulating form having spaced notches along opposing edges and an electric resistance ribbon having spaced windings on one face of the form extending between the opposing notched edges and connected by anchoring loops in the ribbon between adjacent windings, said anchoring loops extending through two adjacent notches in one edge of the form and passing over the opposite face of the form in anchoring portions extending between said adjacent notches, said anchoring portions each being substantially straight and containing an axial half twist in the ribbon.

2,659,801
TEMPERATURE CONTROL DEVICE
Raymond N. Collins, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 6, 1950, Serial No. 188,725
2 Claims. (Cl. 219—20)



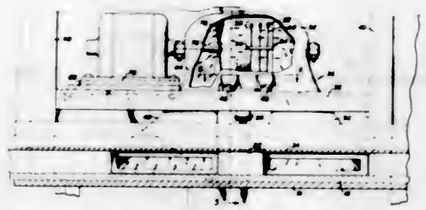
1. A temperature control system comprising a thyratron discharge device having a cathode, an anode, and a control electrode; an electric heating element and a source of alternating voltage connected between said cathode and anode, a phase changing circuit and said alternating voltage source connected between said cathode and control electrode, said phase changing circuit including a capacitor having a ceramic dielectric whose dielectric constant varies inversely with changes in temperature thereof over a predetermined temperature range above the Curie point of said dielectric, said capacitor being positioned in heat receiving relation with said heating element so as to be heated to a temperature within said temperature range.

2,659,802
COOKING APPARATUS
Hayden J. Garrett and Richard H. Garrett, Houston, Tex.
Application September 18, 1950, Serial No. 185,452
2 Claims. (Cl. 219—35)



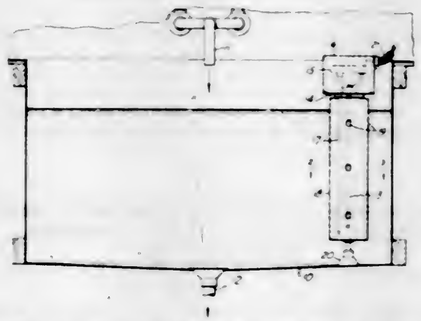
1. In cooking apparatus an outer casing, an inner casing forming a cooking chamber and spaced from the outer casing to form therewith a heating chamber surrounding the cooking chamber, said outer casing having an inlet communicating with a source of fluid under pressure and leading into the heating chamber, said inner casing having an opening communicating with the heating chamber and with the cooking chamber and said cooking chamber having an outlet opening outwardly of the outer casing, baffles extending across the heating chamber from the inner surface of the outer casing to the outer surface of the inner casing and forming vertical compartments in the heating chamber, each of the baffles having one end spaced from one end of the heating chamber, said compartments being in communication beyond said ends of the baffles and forming a continuous passageway from the inlet to said opening, and heating means in each of the compartments.

2,659,803
RADIANT HEATING SYSTEM
Albert H. Mayes, Endicott, N. Y.
Application December 17, 1951, Serial No. 262,028
6 Claims. (Cl. 219—39)



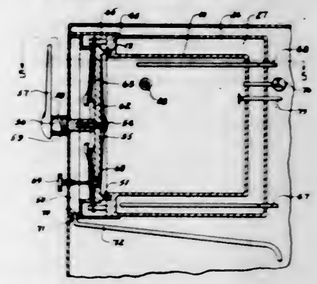
6. In an air conditioning apparatus, a heat generating assembly and mount therefor comprising an open substantially rectangular frame, a housing member including an upper portion mounted in the opening in the frame, said housing member also including an inlet and an outlet extending downwardly from the frame in side by side relation, an electric heating element removably supported in the housing member, a motor mounted on the frame and having its shaft extending into the housing member, and an impeller member on the shaft and disposed in the housing member for drawing air into the housing member through the inlet and for directing air over the heating element and outwardly through the outlet.

2,659,804
WATER HEATER
John F. Dunn, Dos Palos, Calif.
Application May 23, 1952, Serial No. 289,592
2 Claims. (Cl. 219—41)



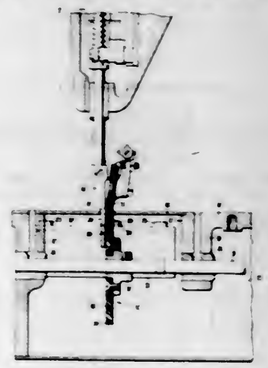
1. In an immersion type heating element adapted to heat the water in a sink, an electric resistance element connected to a suitable source of electric energy, a thermally responsive member in series therewith and adapted to control the flow of electric energy to said resistance element, a casing surrounding said resistance element and said thermally responsive element, passageways in said casing permitting the inflow and outflow of water with respect to said casing, and means for positioning said casing within said sink, said means comprising a suction cup adapted to engage the bottom of said sink and adjustable means connecting said suction cup to said casing comprising a threaded element adapted to engage the threaded member in said casing.

2,659,805
PRESSURE COOKER
Alfred Warren, Vancouver, British Columbia, Canada
Application July 11, 1949, Serial No. 104,092
2 Claims. (Cl. 219—44)



1. A pressure cooker comprising a cooking chamber, a pressure door for the chamber, means for removably locking the door closed, means completely sealing the door when it is locked closed, a jacket surrounding the chamber adapted to contain water, an immersion heater in the jacket beneath the water level to form steam in said jacket, an opening in a defining wall of the chamber for bringing the interior of the chamber into direct communication with the outside atmosphere, and a valve for controlling the opening selectively operable outside the chamber to release the pressure in the latter after it has been raised by heating in order that the chamber door may be opened without lowering the pressure in the jacket.

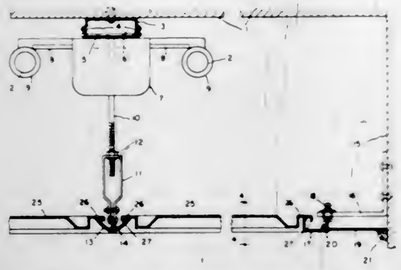
2,659,806
ELECTRODE MOUNTING STRUCTURE FOR RADIO-FREQUENCY SEAMING MACHINES
Hans Hacklander, South Sterling, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 16, 1952, Serial No. 314,985
10 Claims. (Cl. 219—47)



1. In an electronic seaming machine, a bed providing a work-support having an apertured portion, a driven feed wheel positioned within the bed but having a peripheral portion thereof

extending through said apertured portion and above said work-support, a lower electrode assembly comprising spaced blocks of insulating material secured to said bed on diametrically opposite sides of said feed wheel, and an electrode spanning the space between and having end portions removably secured to said blocks.

2,659,807
COMBINATION LUMINOUS AND ACOUSTICAL CEILING
George P. Wakefield, Vermilion, Ohio, assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio, a corporation of Ohio
Application May 16, 1949, Serial No. 93,620
9 Claims. (Cl. 240—9)



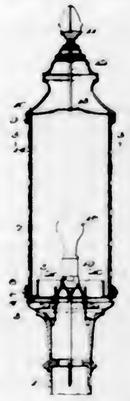
1. In an overhead lighting structure designed to be disposed beneath the ceiling proper of a room and to provide overall, diffused illumination of the room area therebelow, the combination of lighting means including parallel rows of longitudinally aligned tubular illuminators disposed in spaced, approximately parallel relation to the ceiling proper, and parallel series of support members secured to the ceiling proper and equipped with electrically joined, paired series of opposed sockets for said illuminators; said support members including parallel rows of hanger rods depending therefrom, rails carried by the respective rows of hanger rods in spaced, approximately parallel relation to the ceiling proper; and a series of light-diffusing panels substantially co-extensive with the ceiling area and having juxtaposed margins aligned with and laterally resting upon said rails, said panels being upwardly displaceable and tiltable relative to said rails for dropping same between adjacent rails to provide access to said lighting means and said illuminators being located to permit such upward displacement and tilting of said panels with respect to said rails.

2,659,808
COMBINATION LUMINOUS AND ACOUSTICAL CEILING
Herbert L. Beckwith, Cambridge, Mass., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio, a corporation of Ohio
Application June 22, 1949, Serial No. 100,740
6 Claims. (Cl. 240—9)



1. In an overhead sound absorbing and light shielding structure designed to be disposed beneath the ceiling proper and overhead lighting means of a room space, the combination of a series of light-diffusing panels substantially coextensive with the ceiling area, means for suspending said panels from the ceiling in spaced, approximately parallel relation thereto, said means including horizontally extending rails aligned with juxtaposed margins of said panels, and elongated acoustical baffles also carried by said panel suspending means, said baffles lying in close underlying relation to adjacent margins of said panels, said baffles comprising bodies of sound absorbing material providing light reflecting surfaces whereby said rails are concealed.

2,659,809
ELECTRIC LAMP SHADE
Earl Paul Melia, Pueblo, Colo.
Application June 29, 1950, Serial No. 171,053
4 Claims. (Cl. 240—25)

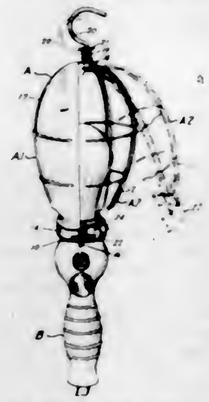


1. In a combined protector and light diffuser for an electric lamp, the combination of an outer protective guard formed of rigid metal elements arranged in the form of a network around the lamp to withstand the impact of relatively large missiles and having relatively large meshes for the emission of light from the lamp, and a flexible, resilient liner of metal wire screen having relatively small meshes and a continuous coating of flexible, light-transmitting material, said liner having the same shape as said guard and fitting closely within said guard but detached therefrom and capable of flexing inwardly away from said guard to absorb the impact of relatively small missiles penetrating said network.

2,659,810
SEPARABLE GUARD FOR TROUBLE LAMPS
Bernard Fineman and Isadore Fineman, Philadelphia, Pa.
Application January 3, 1950, Serial No. 136,526
1 Claim. (Cl. 240—54)

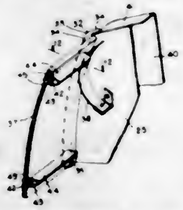
A quick detachable guard for a trouble lamp comprising a pair of complementary substantially hemispherical members, one of said members being constructed to form a reflector means and the other of said members being a wire cage, the wires of which at one end, hook through openings formed in a substantially semi-circular ring portion and, at the other end, hook through openings formed in a plate member, said ring portion being resiliently connected to a semi-circular collar portion, and said plate member being adapted to underlie a lateral extension of said reflector member, a semi-circular collar portion complementary to said first collar portion on said

reflector member, means to detachably connect said collar portions together, means to resiliently connect said plate member to said lateral extension, the resilient connection between said first mentioned semi-circular collar portion and said ring portion comprises a plurality of spring fingers formed on said collar portion and overlying said ring portion, said means to resiliently connect said plate member to said lateral extension comprises a hook having a straight stem thereon, said stem being adapted to extend through corresponding openings formed in said plate member and said lateral extension, means



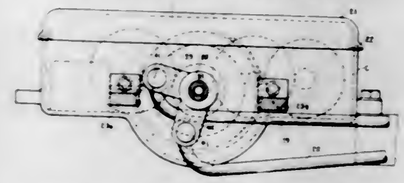
on said stem to space said plate member from said lateral extension and means on said stem abutting against that surface of said plate member which is remote from said spacing means to prevent withdrawal of said stem from said plate member, said stem having a washer affixed thereto and spaced from said lateral extension in a direction opposite to said plate member, and a spring mounted between said washer and said lateral extension, said spring being adapted to press said lateral extension toward said plate member and to draw said semi-circular collar into its complementary spring fingers.

2,659,811
LUMINAIRE FOR ELONGATED TUBULAR LAMPS
George P. Wakefield, Vermilion, Ohio, assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio, a corporation of Ohio
Application March 12, 1947, Serial No. 734,043
5 Claims. (Cl. 240—78)



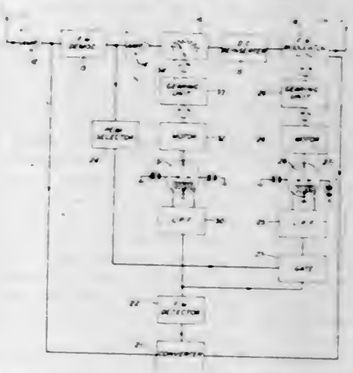
2. A luminaire element comprising an elongated body, an end assemblage at one end thereof and including an end wall, duplicate flanges on the said wall extending in opposite directions from the general plane of the wall and aligned with each other endwise of the body, resilient means carried by the wall and having portions yieldably urged toward the inboard faces of said duplicate flanges, respectively, a panel detachably receivable at one end between either of said flanges and its associated resilient means and held by the latter against the former when so received, an end cap for the end of the body and having a flange detachably receivable between either of said flanges and its associated resilient means and held by the latter against the former when so received, said body having at its other end a duplicate end wall assemblage, and said panel being of a length to extend substantially from one end wall to the other.

2,659,812
SWITCH MACHINE
Ned C. L. Brown, Scottsville, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application December 24, 1949, Serial No. 134,969
13 Claims. (Cl. 246—240)



1. A track switch layout comprising in combination, a pair of movable switch points, a power switch machine having a throw shaft, respective normal and reverse crank arms rotatively secured on said throw shaft and displaced from each other by a substantial angle, and a pair of throw rods connecting the respective crank arms and switch points, one of said throw rods being effective to connect said normal crank arm with one movable switch point, and the other throw rod being effective to connect the reverse crank arm with the other switch point, and said throw rods having their ends for attachment to said crank arms formed as a hook and adapted to hook around respective fixed points of said switch machine when their associated switch points are closed.

2,659,813
FREQUENCY MODULATION REPEATER
John C. Schelleng, Interlaken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 11, 1950, Serial No. 143,765
8 Claims. (Cl. 250—15)



7. The combination in a repeater for relaying frequency-modulated signals of comparison

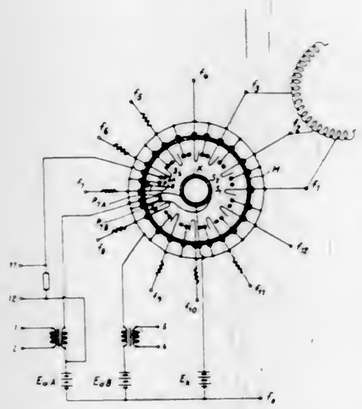
means to compare the frequency of the relayed signals with the frequency of the received signals, a first means to derive from said comparison indications of the mean frequency error of the relayed signals as compared to the received signals, a second means to derive from said comparison indications of the mean frequency error of the relayed signals as compared to the received signals and weighted in favor of the errors occurring in one sense of frequency swing, means in said repeater for controlling the frequency swing of the relayed signals in accordance with one of said indications, and means in said repeater to control the mean frequency of the relayed signals in accordance with the other of said indications.

2,659,814

CONNECTING DEVICE FOR ELECTRON TUBES

Olaf Sternbeck, Eriksvik, Saltsjobo, Sweden, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden

Application June 2, 1950, Serial No. 165,667
Claims priority, application Sweden June 21, 1949
1 Claim. (Cl. 250—27)



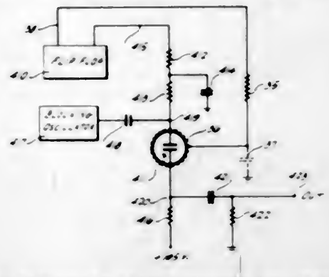
Connecting device comprising an electron tube having an envelope within which are a number of radially mounted control electrodes, a cylindrical cathode for producing a ribbon shaped electron stream, said cathode being mounted centrally among said control electrodes, and a greater number of radially mounted receiving electrodes located in the compartments formed between adjacent control electrodes and mounted at a greater distance from the cathode surface than those parts of the control electrodes which lie nearest to said surface, means outside said envelope for producing a constant magnetic field penetrating the discharge space of said tube and the field lines of which are parallel to the axis of said cathode, means connecting one of the receiving electrodes in each of said compartments to a common positive voltage, means connecting the remaining receiving electrodes to positive voltages, and a polyphase alternating current source having each phase connected to one of said control electrodes for the purpose of directing said electron stream in sequence to said receiving electrodes.

2,659,815

ELECTRICAL GATING CIRCUITS

Daniel L. Curtis, Venice, Calif., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware

Application October 30, 1951, Serial No. 253,903
18 Claims. (Cl. 250—27)



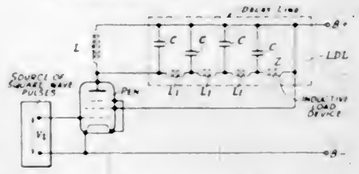
1. An electrical gating circuit for passing electrical input pulses upon occurrence of an electrical gating signal of at least a predetermined voltage, said circuit comprising: a neon tube having first and second electrodes and responsive to a signal of said predetermined voltage applied across said electrodes for conducting current at a substantially constant voltage drop, said constant voltage drop being less than said predetermined voltage; an electrical resistance element conductively coupled to said first electrode; means for applying the gating signal across the combination of said neon tube and said resistance element; means for applying the input pulses to one of said electrodes, the input pulses applied during the occurrence of a gating signal being passed by said neon tube and appearing as output pulses on the other of said electrodes; and an output circuit conductively coupled to said other electrode for passing the pulses appearing thereon and blocking the gating signal.

2,659,816

NONSINUSOIDAL AMPLIFIER

Brian Clifford Fleming-Williams and Arthur Henry Ashford Wynn, London, England, assignors to A. C. Cossor Limited, London, England, a British company

Application March 7, 1947, Serial No. 733,154
Claims priority, application Great Britain March 7, 1946
2 Claims. (Cl. 250—27)



1. A circuit for generating a saw-tooth wave from square-wave pulses comprising, in combination, a source of square-wave pulses, a delay line having a delay equal to the reciprocal of twice the repetition frequency of said square-wave pulses and formed of a network of series inductance coils and shunt condensers, inductance means terminating said delay line at each end in a termination having substantially short-circuit impedance, an electron tube amplifier having an anode, a cathode and at least one control electrode, an input circuit for applying square-wave pulses from said source to said grid,

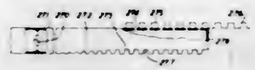
and a connection from said anode to said delay line for applying amplified square-wave pulses to one of said inductances adjacent one end of said line, whereby saw-tooth current is supplied to the terminal inductance at the other end of said line.

2,659,817

TRANSLATION OF ELECTROMAGNETIC WAVES

Cassius C. Cutler, Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 31, 1948, Serial No. 68,549
6 Claims. (Cl. 250—33)



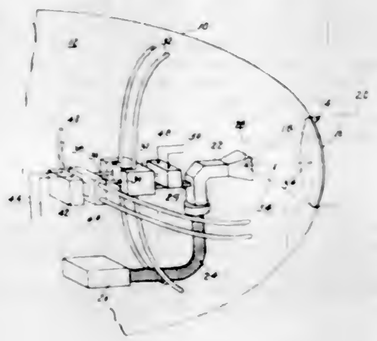
1. A converter from internal to external wave transmission comprising a hollow wave guide adapted to propagate electromagnetic waves through its interior, a corrugated plate connected to the exterior surface of said guide and extending therebeyond for confining the external wave propagation adjacent thereto, a portion of said plate having slots between adjacent corrugations for coupling the internal and external waves, said slots extending through the wall of said wave guide.

2,659,818

HIGH-FREQUENCY DIRECTED RADIO ENERGY SYSTEM

Bradford M. Torrey, Milton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Massachusetts

Application July 21, 1950, Serial No. 175,153
1 Claim. (Cl. 250—33.65)



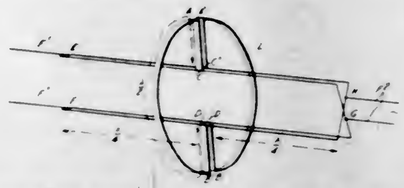
A radar system comprising: a vehicle having a wall provided with a streamline surface; a lens of dielectric material constituting a part of said wall; the curvature of one surface of said lens conforming to the streamline of said wall, and the curvature of another surface of said lens cooperating with said first-named curvature to provide said lens with a predetermined beam-forming characteristic; a directive radio-frequency energy radiating horn mounted in said vehicle substantially at the effective focal point of said lens; and means for rotating said radiating element in selected planes about the center of said lens.

2,659,819

AERIAL SYSTEM

Newsome Henry Clough, Brentwood, England, assignor to Marconi's Wireless Telegraph Company Limited, London, England, a company of Great Britain

Application May 1, 1950, Serial No. 159,199
7 Claims. (Cl. 250—33.67)



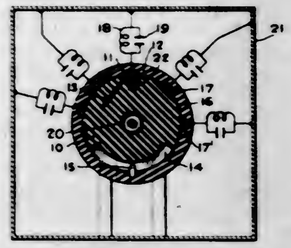
1. An aerial system having a cardioid or similar polar radiation diagram comprising a loop which is interrupted at the opposite ends of at least one bisector, the points on each side of each of the two interruptions being joined by symmetrically disposed parallel substantially radial conductors to two pairs of feed points symmetrically positioned with respect to the axis of said loop and within the same in the plane thereof, there being four pairs of resonant quarter wave lines connected to said feed points, two pairs of lines with each pair of feed points and extending on opposite sides of the plane of said loop, and the lengths round the loop, from one point of a pair of feed points to the corresponding point of the other pair, being substantially half a wave length.

2,659,820

TUNING ASSEMBLY

Preston Robinson, Williamstown, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts

Application July 25, 1951, Serial No. 238,410
5 Claims. (Cl. 250—40)



1. A tuning assembly comprising a plurality of tuned circuits, each of which is provided with a polished metal contact element, a polished semi-conducting contact element, means to place said semi-conducting contact element against each of said metal contact elements successively and means to apply circuit voltage thereto.

2,659,821

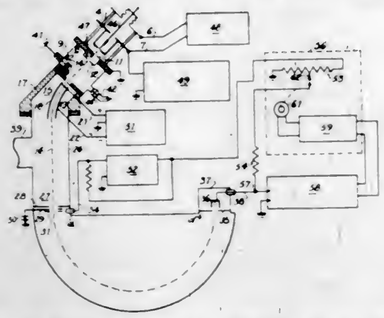
SPECTROMETRIC ANALYSIS OF SOLIDS

John A. Hipple, Jr., Chevy Chase, Md., assignor to the United States of America as represented by the Secretary of Commerce

Application January 25, 1952, Serial No. 268,323
13 Claims. (Cl. 250—41.9)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A mass spectrometer which comprises a first means for producing ions of different masses

from a substance, a second means for forming said ions into a beam, magnetic means for resolving the ion beam into beams of selected masses, a third means for producing a current that fluctuates in intensity in the same manner as the ion current in said magnetic means, a



final collector, a fourth means including said magnetic means for directing one of said selected masses at a time to said final collector, and a fifth means for comparing the currents obtained from said third means and said final collector.

2,659,822

MASS SPECTROMETER

George H. Lee, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application April 22, 1947, Serial No. 743,115

9 Claims. (Cl. 250—41.9)



1. An isotope separation system of the character described comprising an ion source for producing ions from neutral vapors, means for accelerating the ions into a transverse alternating electrostatic field for selectively deflecting ions of different masses, collectors for said ions spaced from said field, and means for decelerating the ions leaving said field for accentuating their deflection while travelling through the space to the collectors.

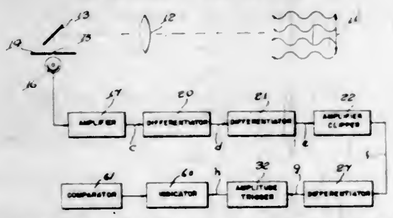
2,659,823

MEASURING SYSTEM

Carl A. Vossberg, Jr., Lynbrook, N. Y.

Application September 21, 1951, Serial No. 247,673

12 Claims. (Cl. 250—59)



1. In a device for the measurement of a dimension of an object; focusing means for producing an image of the object comprising boundary lines which correspond to the dimension to be measured; scanning means including radiation responsive means for deriving an electrical signal from the image, the image signal having a wave shape in which the portions of maximum slope are produced by the leading and trailing boundary lines of the image in the direction of measurement; pulse producing means responsive to the portions of maximum slope of the wave shape of the image signal, the pulse producing means producing a first pulse at the leading edge of the image, and a second pulse at the trailing edge thereof; and indicating means responsive to the interval between the two pulses for producing an indication of the magnitude of the dimension to be measured.

2,659,824

POSITION INDICATING MEANS FOR X-RAY PROJECTORS

Edwin Burnham, Glenview, Ill., assignor to Robert C. Brown, Jr., Highland Park, Ill., as trustee

Application January 12, 1949, Serial No. 70,524

2 Claims. (Cl. 250—64)



1. A position indicator for an X-ray machine of the type having a casing and a removable nose piece threadedly engaging said casing and through which the X-ray beam passes, comprising a flat ring adapted to be secured to said casing and held thereon by said nose piece, brackets fixedly secured to said ring at diametrically opposed points thereof, and a light projector fixedly mounted on each of said brackets and having its optical axis inclined to the direction of the X-ray beam issuing from said casing, whereby the rays issuing from said projectors intersect in the axis of the X-ray beam at a predetermined distance in front of said nose piece.

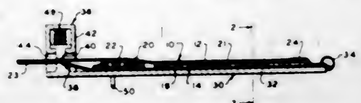
2,659,825

RADIATION DETECTION DEVICE

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application September 29, 1949, Serial No. 118,597

3 Claims. (Cl. 250—68)



1. A device for intercepting, responding to and giving a visible indication of radiation to which the user thereof has been exposed, said device comprising a radiation-sensitive unit and means for mounting said unit and processing the same, said unit comprising a photosensitive layer responsive to said radiation, a pair of filter layers opaque to at least so much of the visible spectrum as is actinic to said photosensitive layer and transparent at least in part to said radiation, said filter layers forming an envelope for said photosensitive layer, and a rupturable liquid-carrying container within said envelope, said unit carrying photographic reagents in sufficient quantity to produce a visible record of the exposure of the photosensitive layer, said container being so located relative to said photosensitive layer as to be capable of releasing its liquid to permeate said layer, said liquid, when released from said container, rendering said reagents effective to form said visible record, said film unit including leader means, said mounting and processing means comprising a supporting member having a surface on which said unit is adapted to be seated, means carried by said member for detachable engagement with a portion of said unit when said unit is seated on said surface whereby to assist in releasably holding said unit on said surface, and a mechanism comprising a pair of superposed pressure-applying members mounted on said surface, said unit being engageable by and movable between said pressure-applying members and when seated on said surface having the leader means thereof extending through said pressure-applying members and engaged thereby whereby said unit is movable between said pressure-applying members by exerting a pulling force on the leader means of the unit which extend between the pressure-applying members, said pressure-applying members providing means, upon drawing the unit therebetween, for rupturing said container and releasing the contents thereof to permeate the photosensitive layer and to form in said unit a visible record of the extent of photoexposure of the photosensitive layer, said pressure-applying members also providing means cooperating with said means which are detachably engageable with a portion of the unit whereby said last-named means and said pressure-applying means hold said unit upon said surface in a substantially flat condition.

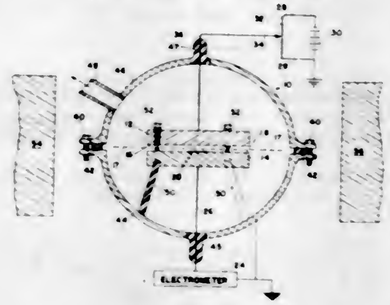
2,659,826

RADIATION MEASURING DEVICE

Gioacchino Failla, New York, and Harald H. Rossi, Orangeburg, N. Y., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application January 24, 1951, Serial No. 207,578

10 Claims. (Cl. 250—83.3)



1. A method of measuring the number of charged particles being emitted from a radioactive source in a given interval of time which comprises collecting at least 99 percent of the liberated charged particles on two symmetrical conducting elements juxtaposed in insulated relation in an evacuated region, the confronting surfaces of said elements having substantially the same scattering and secondary electron producing characteristics with respect to charged particle radiation, and measuring the rate at which a charge is developed on at least one of said elements.

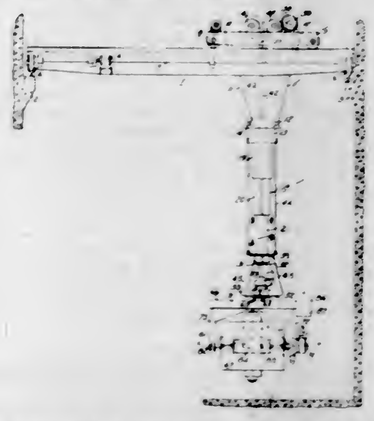
2,659,827

ORIENTING AND SCANNING SUPPORT FOR BETATRONS

Dane T. Scag, Milwaukee, and Donald K. Getzlaff, Wauwatosa, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application May 19, 1951, Serial No. 227,132

7 Claims. (Cl. 250—91)



1. A scanning X-ray device comprising a betatron, a pair of trunnions having a horizontal axis of symmetry attached to said betatron, a yoke assembly having arms extending downwardly forming a support for said trunnions providing for rotation of said betatron about said trunnion axis, support means for said betatron, means connecting said yoke assembly to said support means including a motor operated means for rotating said yoke assembly with said betatron about a vertical axis, a motor operated means for rotating said betatron about said trunnion axis, and means for positioning the X-ray focal point of said betatron on said vertical axis comprising a first adjusting means providing for movement of said betatron relatively to said yoke assembly in a direction parallel to said trunnion axis and a second adjusting means providing for movement of said yoke assembly relatively to said connecting means in a horizontal direction normal to said trunnion axis.

2,659,828

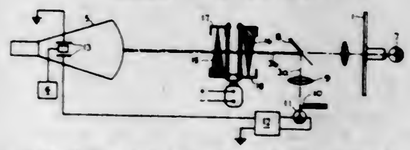
LIGHT BEAM STABILIZING SYSTEM

William S. Elliott, Berehamwood, England

Application January 3, 1950, Serial No. 136,586

Claims priority, application Great Britain January 3, 1949

3 Claims. (Cl. 250—201)



1. Means for stabilising upon a target a light beam subject to beam-disturbing influences, comprising a target, a source generating a light beam, means directing said beam on to said

target, means periodically displacing said source along a given path such that, in the absence of said beam-disturbing influences, the beam will trace repeatedly on the target a desired path of a predetermined shape and constant length, a stationary mask, a light-absorbing area on said mask having an edge of said predetermined shape, means diverting part of said beam to said mask so that it will repeatedly travel along said edge thereon, while said influences are absent, with a fixed proportion of its light passing freely by said edge, any disturbance which causes the beam to deviate laterally on the target from said desired path resulting in movement of said diverted part of the beam transversely of said edge to vary the proportion of its light which passes the same, a light-sensitive device arranged to convert the light passing said edge into proportionate control signals, beam-deflecting means between the light source and the light-diverting means, and means for actuating the beam-deflecting means to cause it to tend to produce a constantly varying lateral deviation of the light beam from its desired path on the target, the resultant control signals derived from the light-sensitive device producing a compensatory distortion of said given path of the light-source which ensures that the light beam will continue to sweep said desired path.

2,659,829

TRANSDUCER DEVICE ELECTROMECHANICALLY SENSITIVE TO FLEXURE

Hans G. Baerwald, Cleveland Heights, Ohio, assignor, by mesne assignments, to Clevite Corporation, Cleveland, Ohio, a corporation of Ohio

Application December 28, 1948, Serial No. 67,645
10 Claims. (Cl. 310—8.5)



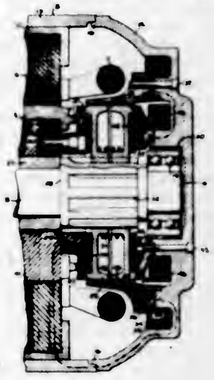
1. A transducer device electromechanically sensitive to flexure comprising: a homogeneous body of small thickness compared with the other dimensions thereof and free of structural discontinuities, having one substantial portion of a dielectric material which has remanent electrostatic polarization in a thickness direction to provide a substantial transducing-response characteristic as between mechanical signal energy and electrostatic-field signal energy, and having another substantial portion also of said dielectric material which has remanent electrostatic polarization of only a lower order of magnitude than said remanent polarization of said one portion to provide a transducing-response characteristic as between said signal energies lower in magnitude than said first-mentioned characteristic; means including electrodes adjacent to said body for translating currents associated with said electrostatic-field signal energy in said body; and mechanical means for translating the motion associated with said flexure during transducing, said flexure being associated with mechanical reaction between said one portion having said substantial transducing-response characteristic and said other portion of said body.

2,659,830

COMBINED MOTOR AND CLUTCH

James A. Mason, Worcester, Mass., and Robert C. Kraeplin, Beloit, Wis., assignors to Warner Electric Brake & Clutch Company, South Beloit, Ill., a corporation of Illinois

Application December 13, 1951, Serial No. 261,474
27 Claims. (Cl. 310—76)



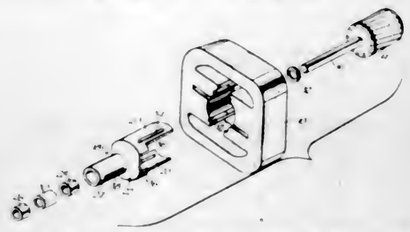
1. The combination of, an electric motor having a stator core, a magnetic housing with an end bell, a shaft journaled in said bell and a rotor journaled on said shaft to turn relative thereto, inner and outer disks rotatable with said shaft and disposed between said rotor and end bell, a magnetic tubular projection rigid with said bell and spanning the peripheries of said disks, clutch and brake windings supported by said end bell exteriorly and interiorly of said projection, an annular magnetic member secured to said bell for axial gripping engagement with said outer disk to form a friction brake and completing a magnetic flux circuit encircling each portion of said brake winding and extending successively through said bell, said member, said outer disk and said projection, and an annular magnetic element secured to the end of said rotor adapted for axial gripping engagement with said inner disk to form a friction clutch and completing a flux circuit extending around each portion of said clutch winding and successively through said element, said projection, said end bell, said motor core and said rotor.

2,659,831

SINGLE BEARING MOTOR CONSTRUCTION

Max E. Lautner, St. Louis, Mo., assignor to Knapp-Monarch Co., St. Louis, Mo., a corporation of Missouri

Application June 30, 1951, Serial No. 234,508
10 Claims. (Cl. 310—90)



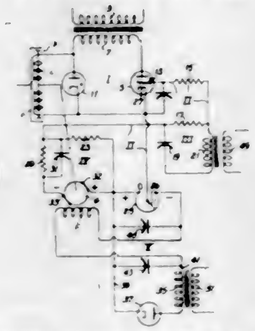
1. An electric motor comprising a stator and a rotor, said stator including a plurality of spaced poles having guideways in the tips thereof, a single bearing support for the rotor comprising a plurality of magnetic members slidably inserted in said guideways in bridging relation between poles, an end plate attached to said members, and a bearing supported by said end plate and adapted to support said rotor.

2,659,832

SPEED CONTROL SYSTEM FOR ELECTROMAGNETIC COUPLING

Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware

Application March 26, 1951, Serial No. 217,604
9 Claims. (Cl. 310—95)



1. In a speed control system for dynamoelectric apparatus, a control circuit comprising a D. C. speed-responsive voltage source and a D. C. reference voltage source connected in series opposition, the speed-responsive voltage source comprising a separately excited generator having a D. C. field coil and output connections to said control circuit; the reference voltage source comprising a resistance connected to said control circuit, said field coil being connected in series with said resistance, and a rectifier element and an A. C. power supply connected in series with one another to form a half-wave rectifier and across the series combination of the resistance and field coil.

2,659,833

ULTRAVIOLET VAPOR ELECTRIC DISCHARGE DEVICE

William T. Anderson, Jr., Maplewood, N. J., assignor to Hanovia Chemical and Mfg. Company, Newark, N. J., a corporation of New Jersey

Application November 9, 1949, Serial No. 126,393
5 Claims. (Cl. 313—27)



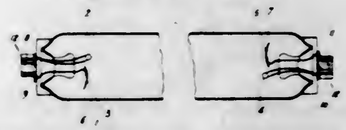
1. In a vapor electric discharge device for the production of ultraviolet radiations in the spectral region between 3200 A. and 3500 A., the combination comprising an ultraviolet light transmissive envelope, at least a pair of spaced electrodes and an ionizable medium comprising mercury and cadmium within said envelope, said electrodes being spaced so that an electric discharge path in said medium has a length A related to the inner diameter B of said envelope substantially according to the formula: $\mathrm{Log}_e A = B^{3/2}$, said mercury being present in an amount sufficient when vaporized to provide a high pressure mercury discharge at a partial pressure of approximately 2 atmospheres, said cadmium being present in an amount sufficient when vaporized to provide a partial pressure of approximately .002 atmosphere for the production of cadmium resonance radiation at 3261 A.

2,659,834

ELECTRIC DISCHARGE DEVICE

Pierre Lemaigre-Voreaux, Paris, France, assignor to Societe Anonyme pour les Applications de l'Electricite et des Gas Rares-Etablissements Claude-Paz et Silva, Paris, France

Application October 25, 1949, Serial No. 123,422
Claims priority, application France
November 9, 1948
2 Claims. (Cl. 313—188)



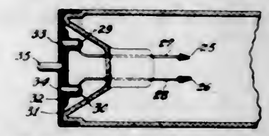
1. An electric discharge device comprising, a rectilinear elongated gas filled tube provided at each end with an electrode of the thermoemissive kind and with an electrode of the cold kind disposed within the tube close to each other; two caps respectively fixed to the ends of said tube, each of said caps being provided with a plurality of contact surfaces having the form of surfaces of revolution having a common axis and being located in the prolongation of the tube in the axial direction of said tube; and at each end of the tube a connection between the thermoemissive electrode of that end and one contact surface of the cap of that end and a connection between the cold electrode of that end and another contact surface of said end, each of said electrodes being connected to only one of these contact surfaces, those contacts of the two caps which are placed in the same position relatively to the other parts of the corresponding cap being connected to an electrode of the same kind.

2,659,835

ELECTRIC DISCHARGE DEVICE

Edmund Germer, Berlin-Wannsee, Germany, assignor to Hanovia Chemical & Manufacturing Co., Newark, N. J., a corporation of New Jersey

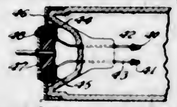
Application January 20, 1951, Serial No. 206,975
1 Claim. (Cl. 313—211)



Electrical discharge lamp comprising a tubular envelope of vitreous material, a rare gas and a small amount of vaporizable metal in said envelope, each end of said envelope having a pair of separate conductors sealed therethrough, a self-heating electrode on each of said conductors inside of said envelope, a cap positioned on each end of said envelope, said cap being recessed inwardly thereof, a pair of spaced electrically conductive sockets in said recess, one of said conductors on the outside of said envelope being connected to one of said sockets and the other of said conductors being connected to the other of said sockets, a movable nonconductive plate member fitted into said recess, a single terminal pin projecting outwardly of the outer surface of

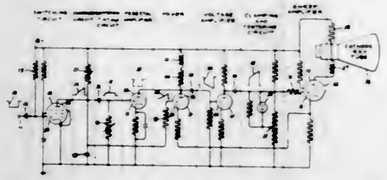
said plate member, a pair of plugs on the under surface of said plate member, each engageable with one of said sockets, a conductor on the under surface of said plate member alternately connectable between one and the other of said sockets and said terminal pin by movement of said plate member.

2,659,836
ELECTRIC DISCHARGE DEVICE
Edmund Germer, Berlin-Wannsee, Germany, assignor to Hanovia Chemical & Manufacturing Co., Newark, N. J., a corporation of New Jersey
Application January 20, 1951, Serial No. 206,976
1 Claim. (Cl. 313—236)



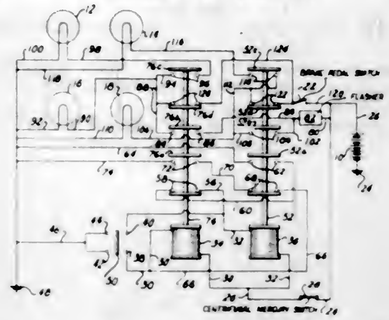
In an electric discharge device including a tubular envelope of vitreous material, each end of said envelope having two electrodes therein, said electrodes having lead-in conductors extending therefrom, the combination therewith of a flared seal stem formed at each end of said envelope, said lead-in conductors being vacuum tightly sealed in said stem, end cap members closely fitting each outer end of said envelope, an electrically non-conductive block member fitted within each end cap member, an electrically conductive plate affixed to the outside of said block member, the plate and block member having a terminal pin extending therethrough, an electrically conducting socket means in said block member electrically insulated from the plate, said socket means comprising two metallic plug members spacedly mounted in said block and extending only partially through said block and having one lead-in conductor affixed to each member, threaded aligned holes extending through the plate and block to each of said members, an electrical switching contact means comprising an electrically conductive screw adapted to be alternately inserted into one of said holes to electrically connect a lead-in conductor to the pin.

2,659,837
SWEEP LINEARITY CONTROL CIRCUIT
Lawrence C. Murdock, Liverpool, N. Y., assignor to General Electric Company, a corporation of New York
Application March 29, 1949, Serial No. 84,192
8 Claims. (Cl. 315—27)



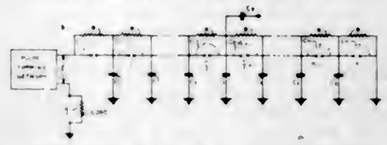
1. A circuit for generating a voltage wherein the amplitude of a pedestal component and the slope of a rising component are maintained in a fixed ratio when the amplitude of said voltage is varied, comprising means for generating a rising voltage component of given slope, means for differentiating said given slope component to obtain a pedestal voltage component having an amplitude proportional to said given slope, and a mixing circuit for combining said voltage components to provide said desired voltage.

2,659,838
DIRECTIONAL SIGNAL SYSTEM FOR VEHICLES
Gideon A. Du Rocher, Grosse Pointe Farms, Mich., assignor to Essex Wire Corporation, Detroit, Mich., a corporation of Michigan
Application March 3, 1951, Serial No. 213,762
5 Claims. (Cl. 315—77)



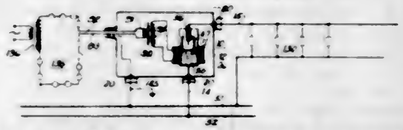
2. A directional signal system for vehicles comprising right and left turn indicating signal lamps, a source of current supply for each of said signal lamps, normally open contacts which when closed, will establish a signal circuit through said right turn indicating signal lamp, other normally open contacts which, when closed, will establish a signal circuit through said left turn indicating lamp, a flasher means in said signal circuit for intermittently interrupting the current to either of said lamps, and a signal control circuit including a source of current supply, a right directional relay means which, when energized, will close the first named contacts, a left directional relay means which, when energized, will close the second named contacts, a three way closable control switch which is operable for selectively closing the signal control circuit to energize either the right or left directional relay means or to close a circuit through both of said relay means so that the potential on each of said relay means is equal, lock-in means which will permit current to continue to flow to either the right or left directional relay means when one of the latter is energized and which will open the signal control circuit when the potential on each of said relay means is equal, and a centrifugal switch means automatically operable by centrifugal force when the vehicle makes a turn to open said control circuit.

2,659,839
SEQUENCE SPARK GAP SYSTEM
Andrew L. Gardner, Berkeley, Calif., assignor, by mesne assignments, to the United States of America
Application July 17, 1951, Serial No. 237,257
11 Claims. (Cl. 315—150)



1. A sequence spark gap comprising a multiunit voltage divider adapted for connection across a source of potential, a plurality of spark gaps respectively connected in parallel with the units of said divider, and a plurality of capacitors each of a magnitude substantially larger than that of the capacity of said individual gaps connected respectively between the units of said divider and a common connection to one terminal thereof.

2,659,840
STREET LIGHTING CONTROL UNIT
Edward H. Yonkers, Jr., Glencoe, Ill., assignor to Joslyn Mfg. & Supply Co., Chicago, Ill., a corporation of Illinois
Application August 3, 1950, Serial No. 177,487
6 Claims. (Cl. 315—161)



1. A street lighting control system, comprising a first group of series connected lamps energized in accordance with a predetermined timing cycle, a plurality of groups of multiple connected street lamps, a first street lighting control unit connected in series with said first group of lamps and actuated in accordance with said predetermined timing cycle, a pilot circuit arranged to be controlled by said first control unit, an auxiliary control unit associated with each of said groups of multiple connected street lamps, and means for controlling said auxiliary control units in unison from said pilot circuit.

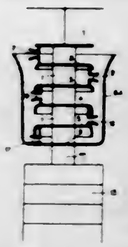
2,659,841
MEANS FOR ELECTRIFYING PULVERULENT MATERIALS
Pierre Hampe, Versailles, France, assignor of one-half to Societe dite: Etablissements & Laboratoires Georges Truffaut, Versailles, France, a French company
Application July 22, 1949, Serial No. 106,177
Claims priority, application France August 3, 1948
7 Claims. (Cl. 317—3)



1. In apparatus for projecting highly electrified particles of pulverulent material, an outer electrode comprising a pair of grooved pulleys rotatable about spaced axes and having their peripheries close to one another, peripheral grooves in said pulleys forming a space of approximately circular cross-section between said pulleys, an inner electrode comprising a pointed wire disposed between said pulleys and means for directing a jet of gas carrying said particles around said inner electrode and between said grooved pulleys.

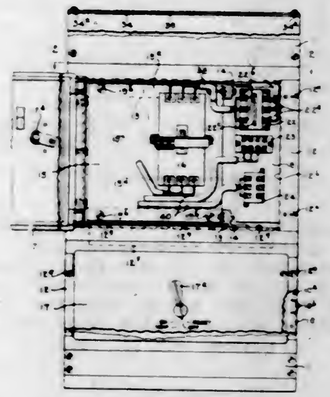
2,659,842
LIGHTNING ARRESTER
Stanislas Texxner, Paris, France, assignor to Societe Anonyme dite: Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France, a corporation of France
Application December 17, 1951, Serial No. 262,003
Claims priority, application France December 28, 1950
7 Claims. (Cl. 317—70)

1. In a lightning arrester having a group of spark-gaps with a plurality of electrodes and a grounded resistance in series with said spark-gaps, means for reducing the impulse sparkover voltage by a predetermined distribution of inner capacitances, comprising superposed metallic supports carrying said electrodes, projections upon said supports for adjusting the series capacitances



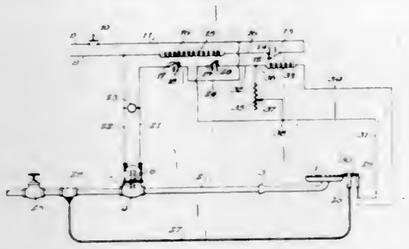
formed between respective pairs of said supports, and means for adjusting the shunt capacitances of said electrodes to ground comprising an electrostatic shield grounded through said resistance, said shield being shaped to present with respect to said supports unequal values of capacitances.

2,659,843
ELECTRICAL CONTROL APPARATUS
Forrest C. McNicol, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application May 22, 1950, Serial No. 163,417
11 Claims. (Cl. 317—112)



1. The combination with a plurality of self-contained electrical control units of the panel type, a self-supporting enclosure having a receiving opening for each of said units, and a plurality of frames removably attached to said enclosure and having means for supporting said control units within said enclosure with their panels facing said receiving openings, of means interposed between each of said control units and its source of electrical supply to afford individual isolation of said units therefrom, said isolating means having separate mounting within said enclosure rendering said isolating means accessible through said openings in said enclosure and permitting removal of said control units without disturbance of their associated isolating means, and means for preventing operation of said isolating means while its associated control unit is connected to its load.

2,659,844
BURNER CONTROL SYSTEM
Russell B. Matthews, Wauwatosa, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 27, 1947, Serial No. 782,415
8 Claims. (Cl. 317—132)



1. Thermoelectric control means comprising, in combination, an electroresponsive control device having operating and safety positions, a first circuit for energization by a source of electric power, a thermoelectric generator adapted when heated to establish a thermoelectric current, first means under control of thermoelectric current established by said thermoelectric generator and operating conjointly with second means under control of said first circuit for causing application of electric power from said first circuit to said electroresponsive control device to operate same to its operating position when said thermoelectric generator is heated, resistor means, and third means under control of said first circuit for completing a circuit including said thermoelectric generator, said resistor means, and said first means upon application of electric power from said first circuit to said electroresponsive control device, said resistor means acting to increase the rapidity of action of said electroresponsive control device to a safety position upon cessation of heating of said thermoelectric generator.

2,659,845
HIGH-FREQUENCY ALTERNATING CURRENT TRANSFORMER
Raymond Calvert, New Malden, England, assignor to The Wayne Kerr Laboratories Limited, Surrey, England, a British company
Application February 13, 1950, Serial No. 143,975
12 Claims. (Cl. 317—206)



3. A high frequency alternating current transformer comprising a core member shaped to form a closed magnetic circuit and having a straight portion; a primary winding wound on part of the core remote from said straight portion; and a pair of secondary windings formed of metal tape wound around the straight portion of the core, one of the secondary windings comprising a number of successive layers of tape and the other secondary winding comprising at least one turn disposed between the layers of said one winding.

2,659,846
SELENIUM ELEMENT AND METHOD OF MAKING IT
Hans A. Rudolph, Hollywood, Calif., assignor to International Rectifier Corporation, Los Angeles, Calif., a corporation of California
Application May 15, 1951, Serial No. 226,502
14 Claims. (Cl. 317—241)



1. A selenium element comprising a base plate, a first selenium layer adherent to the base plate, a second selenium layer adherent over the first selenium layer, the second selenium layer comprising a barrier layer, a counter-electrode over the second selenium layer and barrier layer, each selenium layer having a halogen content, the proportion of the halogen in the second selenium layer being greater than the proportion of the halogen in the first selenium layer.

5. A selenium element comprising a base plate, selenium adherent to the base plate and a counter-electrode over the selenium, said selenium having a barrier layer at its surface next to the counter-electrode, said barrier layer comprising a thin coating containing an organic substance with dielectrical properties and thermal resistance against breakdown, and the reaction product of a magnesium compound and a hydroxide.

2,659,847
SIGNAL RESPONSIVE DRIVING OR FOLLOW-UP DEVICE
Karel Ezr, Prague, Czechoslovakia, assignor to Tesla, Narodni Podnik, Prague, Czechoslovakia, a corporation of Czechoslovakia
Application June 26, 1952, Serial No. 295,801
16 Claims. (Cl. 318—21)



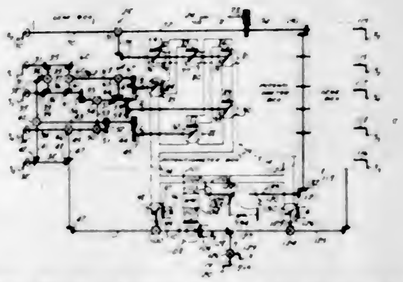
6. A dynamic system comprising, in combination, an oscillatably mounted magnetizable operator; resilient restoring means associated with said operator and biasing the same to a neutral position; a relatively high inertia follower in constant value frictional engagement with said operator; electromagnet means operable to oscillate said operator; and means for selectively energizing said electromagnet means with impulses whose frequency is different from the natural mechanical frequency of the said dynamic system to move said operator rapidly in a selected direction against the force of said restoring means and relative to said follower; said restoring means returning the operator to the intermediate position following each impulse and at a relatively slow rate such that the resulting movement of the follower relative to the operator is in the direction of the slower movement of the latter.

2,659,848
MEASURING APPARATUS
James C. Mouzon, Chevy Chase, Md., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 30, 1949, Serial No. 130,275
6 Claims. (Cl. 318—28)

1. In apparatus for measuring a minute unidirectional current developed between first and second terminals of a high impedance current source, the combination of a measuring circuit connected between said terminals and including an adjustable voltage source of relatively low resistance and comprising a slide wire resistor and a slider contact, and including a very high resistance connecting said slider contact to said first terminal and connected through said slider contact and said voltage source to the said second terminal, condenser means, a second resistor through which said condenser means is connected to said first source terminal, a vibrating condenser converter for converting unidirectional current into alternating current and connected between said second terminal and second resistor and connected by the latter to said first terminal, an alternating current amplifier having an input circuit connected at one end to said first source terminal through said condenser means and second resistor and having its other end connected to said second source terminal and having an output circuit, a reversible rebalancing motor connected to said output circuit for operation to adjust said slider contact and rebalance said measuring circuit when the latter is unbalanced, and a damping condenser having its terminals connected to the ends of said very high resistance.

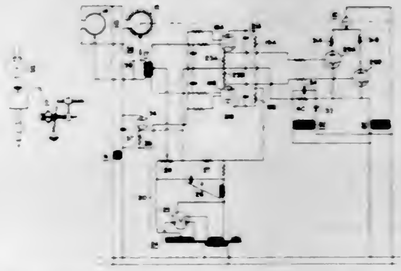


2,659,849
AUTOMATIC CAM CUTTING MOTOR CONTROL APPARATUS
Frederick W. Cunningham, Stamford, Conn., assignor to Arma Corporation, Brooklyn, N. Y., a corporation of New York
Application October 19, 1950, Serial No. 190,956
20 Claims. (Cl. 318—30)



1. In automatic control apparatus for machine tools and the like, the combination of first potentiometer means having an energized stator winding and a cooperating member movable relatively thereto, mechanical input means for adjusting said movable member relatively to said winding, second potentiometer means having a stator winding and a cooperating member movable relatively thereto, electrical connections between the movable member of said first potentiometer means and the winding of said second potentiometer means, second mechanical input means for adjusting the movable member of said second potentiometer means, third potentiometer means having an energized stator winding and a cooperating member movable relatively thereto, motive means having a control winding, electrical connections between the outputs of said second and third potentiometer means and said control winding, and operative connections between said motive means and the movable members of said second and third potentiometer means for adjusting the same relatively to the corresponding windings.

2,659,850
MOTOR CONTROL SYSTEM AND THE LIKE
William E. Phillips, Drexel Hill, and Richard H. Huddleston, Jr., Hatboro, Pa., assignors to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 14, 1950, Serial No. 149,614
28 Claims. (Cl. 318—257)

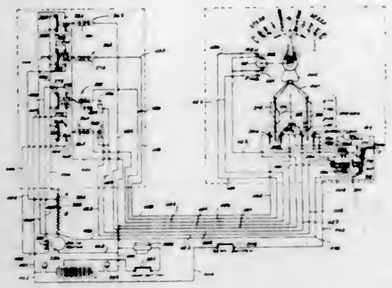


1. An arrangement for variably controlling the speed of a motor energized from an alternating-current source of fixed frequency in accordance with an error signal which comprises a relaxation oscillator, biasing means precluding operation of said oscillator for zero magnitude of said error signal, means for applying the error signal to said oscillator and in cooperation with said biasing means controlling said oscillator to produce pulses of the same effective value and of repetition frequency corresponding with the magnitude of the error signal, gaseous-discharge means in circuit with said motor and said source of alternating-current of fixed frequency, and circuit connections for applying said variable frequency pulses to control electrode structure of said gaseous-discharge means.

2,659,851
REVERSING AND SPEED CONTROL FOR TRUCK MOTORS
Lawrence M. Persons, deceased, late of St. Louis County, Mo., by Elisabeth B. Persons, administratrix, St. Louis County, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware
Application July 30, 1948, Serial No. 41,695
24 Claims. (Cl. 318—262)

15. In a control for a reversible motive means, direction selecting means to predetermine the direction of operation of the motive means, actuating means to operate the direction selecting means selectively for either forward or reverse operation of the motive means, said operating means being rapidly movable from a position to operate the selecting means to establish operation in one direction to a position to operate the

selecting means to establish operation in the other direction, means operated by additional operation of the actuating means to operate speed increasing switches for the motive means, means in the control to prevent energization of the



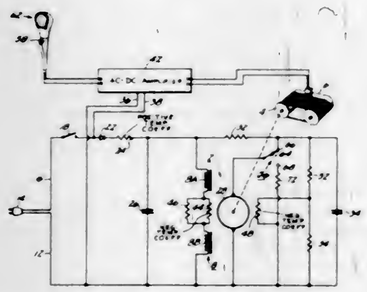
motive means for travel in the opposite direction, and other means to block operation of the speed increasing switches, when the operating means is thus rapidly shifted until the motive means has slowed down substantially in its travel in its initial direction.

2,659,852

CONSTANT SPEED MOTOR DRIVE SYSTEM

John H. Trevitt, Bridgeport, Conn., assignor to Dictaphone Corporation, Bridgeport, Conn.

Application November 29, 1950, Serial No. 198,162
16 Claims. (Cl. 318—334)



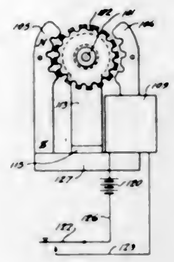
1. For use in a sound recording or reproducing system adapted to be operated by either direct or alternating current, a drive system comprising an input circuit connectible to an alternating or direct current power source, a rectifier connected to said input circuit, first and second filter sections each having a current resisting element and an energy storage element, first circuit means connecting said first filter section to said rectifier and said second filter section to the output of said first filter section, a shunt-wound electric motor having field and armature windings, second circuit means connecting said armature winding to the output of said second filter section, and third circuit means excluding said second filter section and connecting said field winding to the output of said first filter section, whereby current passing through said armature winding is modified by both of said filter sections and current passing through said field winding is modified only by said first filter section.

2,659,853

ELECTRIC IMPULSE MOTOR DEVICE

Montford Morrison, Upper Montclair, N. J.

Application August 16, 1949, Serial No. 110,596
3 Claims. (Cl. 318—491)



1. In a motor device driven by direct current impulses, a rotor having salient poles, two stator members each having salient poles of an angular pitch equal to the pole-pitch of said rotor, one of said stator members having its poles rotated one-half pole-pitch from the angular periodic sequence of the poles of the other said member, all said poles formed to provide greater magnetic reluctance between the poles of the stator and the poles of the rotor for one direction of rotation thereof than for the other direction of rotation thereof, a third stator member located in between said two stator members dividing the magnetic fields of each of said two stator members through said rotor into two independently magnetizable stator magnetic circuits, two independent means for independently magnetizing said two magnetic circuits, one of said means being a source of constant magnetic flux included in a first of said two stator magnetic circuits, said flux attracting said rotor into a locked-rotor pole-position when extant, the other of said means being an electrically-excitable embracing-coil in a second of said two stator magnetic circuits and having a circuit including a switch with a source of direct current creating magnetic flux in said second magnetic circuit impelling said rotor out of said locked-rotor pole-position to an advanced half-pole-pitch locked-rotor position, the magnitude of said attracting flux being sufficient to hold said rotor in said locked position when said switch is open, the magnitude of said impelling flux being sufficient to pull said rotor out of said locked position to said advanced position when said switch is closed, and the magnitude of said attracting flux being also sufficient to attract said rotor to an additional advanced half-pole-pitch locked-rotor position when said switch is opened after closing.

2,659,854

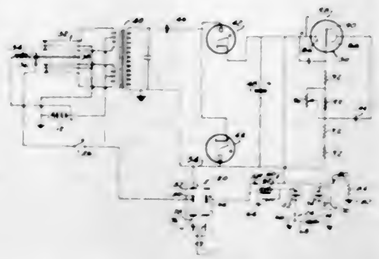
POWER SUPPLY UNIT FOR HIGH-SPEED FLASH

Arthur M. Wengel, Blooming Grove, Wis., assignor to Ray-O-Vac Company, Madison, Wis., a corporation of Wisconsin

Application November 14, 1949, Serial No. 126,979
7 Claims. (Cl. 320—1)

1. A self-contained high voltage power supply comprising a casing, a viewing aperture in said casing, means in said casing for receiving at least one dry cell battery, circuit elements for converting the voltage output of said battery to a high voltage direct current potential, and a discharge device for regulating the value

of said potential, said discharge device comprising a glow tube located within said casing in po-



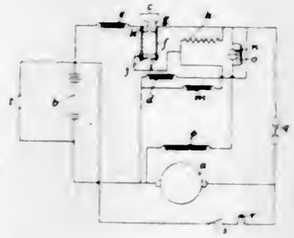
sition for observation through said viewing aperture.

2,659,855

SIGNAL AND CUTOUT FOR USE IN DYNAMO-BATTERY SYSTEMS

Albert Victor Waters, Perivale, Greenford, England, assignor to C. A. V. Limited, London, England

Application February 27, 1951, Serial No. 212,895
Claims priority, application Great Britain March 7, 1950
1 Claim. (Cl. 320—29)



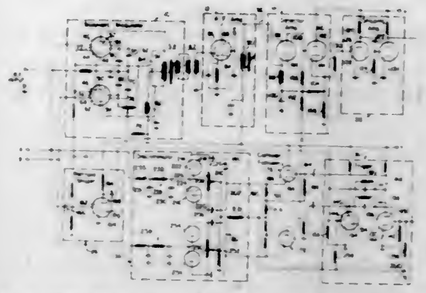
A dynamo-battery system for use for example on a road vehicle, comprising in combination a dynamo regulator including an electromagnet responsive to dynamo voltage, a resistance in series with said electromagnet, an electromagnetic cut-out having a voltage winding responsive to dynamo voltage and adapted to operate at a higher voltage than that which normally operates the regulator, a current winding for said cut-out connected between the cut-out and the battery so that a relatively small reverse current through said winding will ensure opening of the cut-out, the cut-out having an armature and two sets of contacts, the movable contact of each set being carried by said armature, a first set of said contacts being connected between the dynamo and the battery in series with said current winding, and the other set of said contacts being connected across said resistance to short-circuit the resistance when the cut-out contacts are closed, a fuse between one side of the dynamo and the said first set of cut-out contacts, and a signal device in a circuit connecting said one side of the dynamo with the corresponding pole of the battery, the arrangement being such that the signal device is brought into action under any condition, including the blowing of the fuse, when current is not being supplied to the battery by the dynamo.

2,659,856

DURATION RATIO REGULATOR

Robertson R. Gannaway, Oak Park, Ill., assignor to Raytheon Manufacturing Company, a corporation of Delaware

Application April 21, 1948, Serial No. 22,389
4 Claims. (Cl. 321—32)



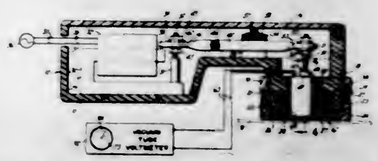
1. A rectifier network for converting an alternating-current signal into a voltage having an amplitude and polarity with respect to a selected level determined by dissymmetries in the waveform of such signal, said network including in combination, a first unilaterally conductive device having an input electrode and an output electrode, a second unilaterally conductive device having an input electrode and an output electrode, a filter network connected to the output electrode of said first device and to the input electrode of said second device and to a point of reference potential and constituting a path for alternating currents from said last mentioned output and input electrodes to said point of reference potential, an input circuit connected to the input electrode of said first device and to the output electrode of said second device and to said point of reference potential for supplying an alternating-current signal to said devices having an axis established at said reference potential, and an impedance element included in said input circuit interconnecting said last mentioned input and output electrodes and having a selected tap thereon connected to said point of reference potential.

2,659,857

INSTRUMENT FOR INDICATING PERMEABILITY

Clarence A. Anderson, San Diego, Calif.

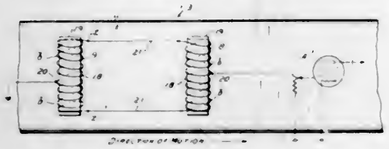
Application June 1, 1951, Serial No. 229,397
10 Claims. (Cl. 324—34)



1. In an instrument for determining the magnetic permeability of a member at least a portion of which is paramagnetic comprising, in combination: a core of paramagnetic material; a coil surrounding said core and closely coupled thereto; a housing of rigid material surrounding said core and coil; spacing means disposed between an end of said core and the member to cause the said end to follow a path substantially parallel and close to the surface of the member in response to the movement of the core along the

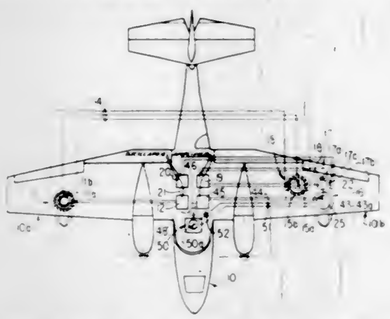
member; means for rapidly reciprocating said core while the end thereof is moving along said path; and a damping member formed of resilient material pressing against the outside of said housing to dampen out any spurious vibrations thereof.

2,659,858
APPARATUS FOR DETECTING FLAWS IN METALS
Robert H. Winchester, Trenton, N. J.
Application April 12, 1949, Serial No. 87,023
3 Claims. (Cl. 324—37)



1. An apparatus of the character described for detecting flaws in a railway rail or other metallic body associated with a magnetic field, said apparatus including in combination a pair of induction devices movable in the direction of the axis of the body and arranged in tandem with relation to each other, each of said induction devices comprising an air core induction coil arranged axially transversely of the body and having its terminal windings conductively connected to the like windings of the other coil, and each coil being provided with a center tap dividing it into two normally balanced portions for travel above the body over opposite sides of the longitudinal center line of the magnetic field.

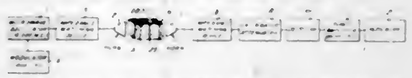
2,659,859
METHOD OF AND APPARATUS FOR AEROMAGNETIC PROSPECTING
Carl A. Heiland, Denver, Colo.
Application April 5, 1946, Serial No. 659,996
4 Claims. (Cl. 324—43)



1. The method of aeromagnetic prospecting which comprises the steps of moving an earth inductor with an airplane in flight, continuously actuating said inductor to move its axis into the plane of the magnetic meridian, rotating said inductor, and continuously compensating the action upon said inductor of the magnetic field under investigation by an auxiliary magnetic field of equal magnitude and opposite direction responsive to voltages produced in said inductor.

4. The combination in apparatus mounted on an airplane for aeromagnetic prospecting, of an earth inductor compass, a receiving device actuated by the voltages induced in said inductor compass and having a rotor adapted to be oriented into the plane of the earth's magnetic meridian, a rotary inductor, means for rotating said inductor continuously, a servo-motor actuated by said rotor of said receiving device and arranged to orient said rotary inductor continuously toward a position wherein its axis of rotation is in the plane of the earth's magnetic meridian, means for setting up a compensating magnetic field in the region of said rotary inductor in opposition to the vertical component of the earth's magnetic field, means responsive to the voltages induced in said rotary inductor by said vertical component for continuously regulating the magnitude of said compensating field, and means for indicating and recording changes in said compensating magnetic field.

2,659,860
METHOD AND APPARATUS FOR MEASURING MOISTURE CONTENT
William McSwain Breazeale, Charlottesville, Va., assignor to Institute of Textile Technology, Charlottesville, Va., a corporation of Virginia
Application August 27, 1949, Serial No. 112,784
19 Claims. (Cl. 324—49)



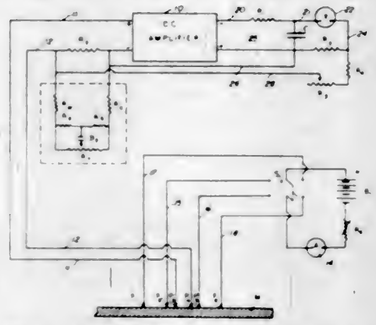
1. The method of measuring the moisture content of layer-formed material which includes, impressing a beam of microwaves on an effective surface of said material so that said waves pass through said material, orienting the material so that the planes of the layers thereof are substantially parallel to the direction of propagation of said beam, restricting the transverse dimensions of said beam to less than the corresponding dimensions of said surface, detecting the waves which have passed through said material, and measuring the attenuation of the detected waves in passing through the material.

17. A system for measuring moisture content of material which includes, a microwave oscillator, a wave-emitting element coupled to the output of said oscillator comprising a microwave horn adapted to emit plane polarized waves, said horn being proportioned to confine the spread of the emitted waves to an area smaller than that of the surface on which the waves impinge, the aperture of said horn being longer in the direction of the magnetic vector of the emitted waves than in the direction of the electric vector thereof, stops of microwave-absorbing material disposed to plug the side edge portions of the horn aperture and arranged perpendicular to the magnetic vector of the emitted wave, a wave-receiving element spaced from said wave-emitting element so as to accommodate material to be measured therebetween, wave-detecting means connected to said wave-receiving element, and indicating means connected to be actuated in response to the output of said wave-detecting means.

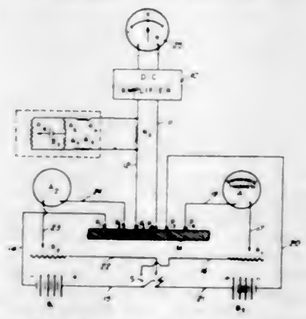
2,659,861
APPARATUS FOR ELECTRICAL THICKNESS MEASUREMENT
Norman G. Branson, Stamford, Conn., assignor to Branson Instruments, Inc., Stamford, Conn., a corporation of Connecticut
Application November 1, 1951, Serial No. 254,404
5 Claims. (Cl. 324—64)

1. Apparatus for measuring the thickness of a conductive body from one side only comprising:

means for applying simultaneously to said side three pairs of contacts namely, a pair of potential contacts, an inner pair of current-supplying contacts spaced therefrom by a distance not substantially greater than the minimum thickness to be measured and a pair of outer current-supplying contacts spaced apart by a greater distance than said inner current-supplying contacts; means for supplying current of predetermined value selectively to said inner and outer pairs of contacts; an adjustable amplifier for the current flowing through the potential contacts; and a meter connected to the output of said amplifier and having a scale calibrated to indicate thickness with relation to the specific arrangement of contacts used therewith.

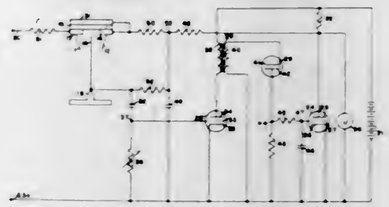


2,659,862
APPARATUS FOR ELECTRICAL MEASUREMENT OF THICKNESS USING CURRENT RATIOS
Norman G. Branson, Stamford, Conn., assignor to Branson Instruments, Inc., Stamford, Conn., a corporation of Connecticut
Application November 1, 1951, Serial No. 254,405
7 Claims. (Cl. 324—64)



1. Apparatus for the electrical measurement of thickness of a conductive body from one side only comprising a probe having inner and outer pairs of current supplying contacts and a pair of potential contacts adapted to be applied to said side, two independent sources of electric current, means for supplying said current to said pairs of current supplying contacts so as to cause the currents to flow through a common portion of said body in opposite directions, the potential contacts engaging said common portion, meters responsive to the values of said currents, means for adjusting said values, and a meter adapted to show a zero potential across said potential contacts.

2,659,863
POTENTIAL MEASURING DEVICE
Austin N. Stanton, Garland, Tex.
Application December 19, 1949, Serial No. 133,874
10 Claims. (Cl. 324—99)



2. In a potential measuring device: an insulator; an input plate and an adjacent plate mounted on said insulator; a sampling plate adapted to be moved alternately into positions adjacent said input plate and said adjacent plate; means for amplifying and rectifying the alternating current generated by the movement of said plate; means for converting the output of said rectifying means to a potential approaching that of said input plate and applying said potential to said adjacent plate and said sampling plate; means for applying said potential across said insulator for minimizing the potential gradients in said insulator; means for lengthening the time required to affect the converting means; and means operatively associated with said adjacent plate for measuring the potential of said input plate by measuring the potential of said adjacent plate.

2,659,864
ELECTROSTATIC INDUCTION VOLTAGE MEASURING DEVICE
Theodore Alfred Rich, Schenectady, and William J. Morlock, Syracuse, N. Y., assignors to General Electric Company, a corporation of New York
Application February 11, 1949, Serial No. 75,926
20 Claims. (Cl. 324—109)



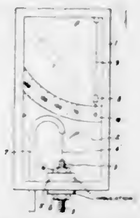
1. A portable electrostatic induction device including three conductive members insulated from one another and so arranged that a first of said members is surrounded on all sides by the other two of said members and thereby is linked capacitively with each of the other members and is substantially shielded from other capacitive linkages, connections for connecting the latter two members to respective parts of an electric circuit or to each other selectively, and a switch mounted on one of said latter two members and having a movable conductive element designed to contact said first member which when closed connects the first member and said one of the other two members.

2,659,865

SNAP ACTION ELECTROMETER

Theodore A. Rich, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application February 9, 1950, Serial No. 143,276
26 Claims. (Cl. 324—109)



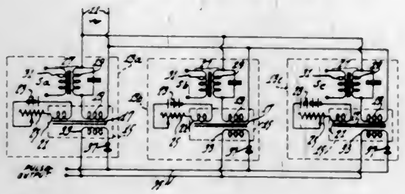
1. A snap-action electrometer comprising a fixed conductor, a movable conductor constructed for movement along a path such that the distance between said fixed and movable conductors continually increases from a predetermined minimum at the zero deflection position thereof, the area of attraction of said fixed conductor being relatively small in comparison to the attractive area of said movable conductor, electrical connections for applying a potential difference to be measured between said fixed and movable conductors, thus providing electrical charges of opposite polarity between the areas of attraction of said conductors, whereby electrostatic attraction tends to hold the movable conductor within the portion of its path near the fixed conductor, the effective component of such forces acting upon said movable conductor in the direction of its movement having a maximum value at a position of the movable conductor within that portion of its path which is near said fixed conductor, means for applying an opposing force of adjustable magnitude to said movable conductor which tends to move the movable conductor away from the fixed conductor, so that when the magnitude of such opposing force exceeds the maximum value of the effective component of the electrostatic forces said movable conductor moves away from said fixed conductor with a sudden snap action, and means to indicate the relative magnitude of such opposing force required to produce such snap action.

2,659,866

PULSE MODULATION SYSTEM

Vernon David Landon, Princeton Township, Mercer County, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 16, 1951, Serial No. 256,802
6 Claims. (Cl. 332—12)



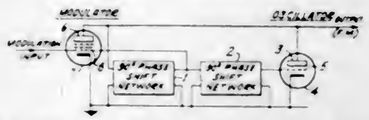
1. A pulse multiplex system comprising a polyphase source of alternating energy and having a plurality of channels each of which includes a channel pulse generator and pulse position modulator therein, means for feeding separate groups of said plurality of channels with different phases of said alternating energy, the channels in each group being fed with alternating energy of the same phase, each of said generators and modulators including: a saturable core inductor having at least two windings coupled through said saturable core, means coupling one phase of said alternating current energy to one winding of said inductor, means to magnetically bias said saturable core of said inductor by a different amount from the others in the same group, a source of signal modulation energy coupled to said saturable core, a unilateral conducting device coupled to the other of said windings; and an output circuit coupled to all of said unilateral conducting devices.

2,659,867

FREQUENCY MODULATED OSCILLATOR

Howard R. Mathwich, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 10, 1951, Serial No. 250,735
2 Claims. (Cl. 332—28)



1. An oscillator circuit comprising an electron control device having input and output electrodes, a feedback phase shift network connected between said input and output electrodes, said network being effective to cause a phase shift of 180° for a predetermined frequency, whereby said device produces oscillations of said predetermined frequency, an electron discharge device including anode, cathode and control electrodes, means coupling one end of said network to said anode, a cathode impedance connected in series with said cathode, a resistor having one end connected to the opposite end of said network, a connection between the other end of said resistor and said cathode impedance, and means coupling an intermediate point on said network to said control electrode.

2,659,868

MODULATION BY MAGNETIC CONTROL OF SUPERCONDUCTORS

Eric Arvid Ericsson, Stockholm, Anders Ossian Jörgensen, Traneberg, and Sune Lambert Överby, Stockholm, Sweden, assignors to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden

Application June 20, 1949, Serial No. 100,204
Claims priority, application Sweden July 9, 1948
4 Claims. (Cl. 332—51)



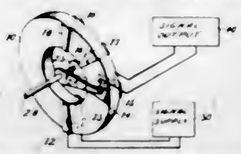
1. A modulation system for modulating high frequency currents comprising an oscillating circuit including at least one inductance coil, a power tube connected to the output of said oscillating circuit, a resistance connected across the electrodes of the power tube, a co-axial line connected to the output of said power tube, a variable high conductivity magnetically responsive element in said oscillating circuit, a coil in inductive relationship with said latter element, and a source of alternating electro-motive force at carrier frequency connected to said latter coil for varying the conductivity of the variable high conductivity element.

2,659,869

ELECTRICAL SIGNAL DELAY DEVICE

William M. Allison, North Adams, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts

Application April 18, 1951, Serial No. 221,660
8 Claims. (Cl. 333—30)



1. A signal delaying device having a stationary ring-shaped transducer adapted to function as an acoustic signal carrier, a first signal translator linked with one portion of the carrier for receiving electrical signals and translating them into corresponding mechanical signals in the carrier, and at least one output translator linked with a different portion of the carrier for retranslating said mechanical signals into electrical signals corresponding to the received signals but delayed in time in accordance with the internal acoustic travel and for automatically repeating the delayed signals by reason of the parallel acoustic paths provided by the ring shape of the carrier.

2,659,870

MODE FILTERED CUTOFF ATTENUATOR

Arthur E. Laemmel, Brooklyn, N. Y., assignor to Polytechnic Institute of Brooklyn, Brooklyn, N. Y., a corporation of New York

Application July 10, 1947, Serial No. 760,028
4 Claims. (Cl. 333—81)



1. A cut-off attenuator comprising a rectangular wave guide having a height not greater than one-half the width, and the width is less than one-half the wavelength in free space, a coaxial input cable coupled to the broad face of said guide and having the central conductor thereof extending into said guide to form a launching antenna for launching wave energy in said waveguide in a dominant and higher modes, a filling of solid dielectric material for a section of said guide surrounding said launching antenna, said dielectric filling serving to increase the effective dimensions of the filled section to a point to sustain the dominant mode only while maintaining the waveguide below cut-off for said higher modes, and said filled section being of sufficient length to attenuate substantially to zero all higher modes within said filled section, whereby only the dominant mode is transmitted beyond the end of said dielectric-filled section, a pickup element mounted within said wave guide and being adjustable along the length of said waveguide to vary the spacing thereof with respect to said dielectric filled section, and loss-producing matching means embodied in said dielectric filling at a point between said launching antenna and the end of said dielectric filled section adjacent said pickup element.

2,659,871

ELECTRICAL CONNECTOR STRIP HAVING LATERALLY DISPLACED STRIP FEEDING EDGES

Quentin Berg, New Cumberland, Pa., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa.

Application October 3, 1949, Serial No. 119,220
4 Claims. (Cl. 339—97)



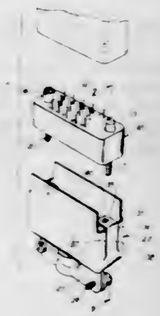
1. An integrally-formed strip composed of a succession of integrally joined terminals for electrical conductors and the like, together comprising a channel-like strip having a continuous base portion, a plurality of substantially identical and contiguous side portions extending at an angle from each side of said base, and each of said side portions being severed from the corresponding side portion of the next terminal and having at least one of the severed edges displaced laterally from the next to provide a strip feeding surface for said formed strip.

2,659,872

ELECTRICAL CONNECTOR HOOD ASSEMBLY

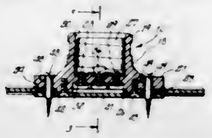
Leon Gilbert, Stamford, Conn., assignor to Winchester Electronics, Inc., Glenbrook, Conn., a corporation of Connecticut

Application June 10, 1950, Serial No. 167,454
2 Claims. (Cl. 339—136)



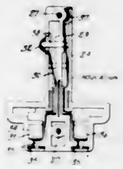
1. An electrical connector part hood assembly comprising a shell member open at one end to receive a connector part, said shell member having opposing sides cut away from its open end to permit the lateral shifting movement of the connector part relative thereto and providing side extensions to guide the connector part during any lateral shifting movement thereof, each of said ends being slit and providing a tongue adapted to be flexed inwardly and outwardly of the shell member, said tongue being adapted to receive fastening means on the connector part, said shell member having an opening removed from its open one end for receiving a cable.

2,659,873
ELECTRICAL FIXTURE
John B. Cataldo, Bernardsville, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application May 7, 1951, Serial No. 224,949
3 Claims. (Cl. 339—175)



1. A lamp socket fixture adapted to be attached to an electrical conduit comprising a pair of parallel, coplanar electrical conductors, said conductors being covered by an insulating material having a central web portion for holding the conductors in laterally spaced relationship, said fixture comprising a lamp receiving socket, a base portion for supporting the socket, said base portion having a channel formed therein for receiving the conduit, said conduit being stripped of its insulating covering within the base portion, first and second terminal means mounted within said base portion and spaced apart transversely of the conduit for a distance exceeding the normal spacing between the electrical conductors of the conduit, clamping means for securing the conductors to the terminals, and electrically conducting members for connecting each of said terminals to the socket, said web being formed with openings adjacent either end of said fixture, anchoring members carried by said base portion and received in said openings for securing the web portion against movement longitudinally of said conductors, and a pair of abutment means carried by said housing and spaced apart longitudinally of said conduit to be engaged by the insulating material of said conduit to hold the conductors within the base in tension.

2,659,874
COLLECTOR PLUG FOR BUS BAR DUCT SYSTEMS
Albert H. Veitch, Plainville, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application April 1, 1949, Serial No. 84,922
7 Claims. (Cl. 339—176)



1. A collector plug for a bus bar system comprising an insulating body having a base and an extension formed of a number of parts, spring members mounted between said parts and arranged in pairs, one member in each pair being shorter than the other member of the same pair and having a contact normally protruding from the extension and the other member of said pair having a contact normally retracted and means coacting between said respective shorter and longer spring members whereby pressure on the shorter member contact causes the longer member contact to protrude from said extension.

2,659,875
LAMP SOCKET
Joseph S. Yarrow, Litchfield County, Conn.
Application July 8, 1950, Serial No. 172,714
10 Claims. (Cl. 339—180)



1. A tubular lamp socket housing partially closed at the lower end, the latter being provided with a hole to admit wires; an inwardly developed bead in the lower portion of the housing and longitudinal thereof terminating in a plane transverse to and in the mid-portion of the housing to form a ledge; the bead having a substantially vertical under cut groove open at the top of the ledge and forming vertical opposed flanges, the walls at the end of the groove toward the bottom of the housing being curved toward the axis of the housing, and electrical conductors in said undercut groove and bent to conform substantially to the curve of said walls.

2,659,876
INDENTABLE JACK-TYPE CONNECTOR
Henry Peter Dupre, Croton-on-Hudson, and Irving Frederick Matthysse, New York, N. Y., assignors to Burndy Engineering Company, Inc., a corporation of New York
Application November 1, 1949, Serial No. 124,842
1 Claim. (Cl. 339—255)



An electrical connector comprising a socket member and a plug member, said socket member having a hollow body with an open end, said plug member terminating in a portion for insertion into the hollow body, a tubular sheet metal spring, non-circular and uniform in cross-section, having a long and a short width and an open slot extending from one end thereof to the other, said spring engaging the walls of the socket at the long width, and providing sufficient clearance at the short width for enabling the spring to resiliently accommodate the plug, and an inwardly projecting detent provided at the short width of the spring for engaging the plug, said hollow body provided with a peened over edge for holding the spring at the short width movably therein, said plug provided with peripherally recessed portions for engaging the detent on the spring when the plug is inserted therein.

2,659,877
WIRE CONNECTOR FOR RANGE RECEPTACLES
Luther M. Sheldon, Edgewood, R. I., assignor to Monowatt, Inc., a corporation of Connecticut
Application May 4, 1951, Serial No. 224,563
4 Claims. (Cl. 339—263)

1. A wire connector comprising a body, a clamping nut and screw means for securing said clamping nut to said body, said body including a base having means for securing the connector to a supporting surface and a U-shaped element having a clearance hole in the cross member thereof, the legs of said element being for guiding said clamping nut to prevent rotation thereof, said screw means passing through said clear-



ance hole in said cross member to engage said clamping nut to move the same into clamping engagement with said U-shaped element and a notch in each leg of said U-shaped element displaced from the axis of said screw means for receiving an electrical conductor to be clamped between said clamping nut and said cross member.

2,659,878
RANGING SYSTEM
Willard F. Meeker and Frank H. Slaymaker, Rochester, N. Y., assignors to Stromberg-Carlson Company, a corporation of New York
Application March 4, 1948, Serial No. 13,065
9 Claims. (Cl. 340—16)



1. In a ranging system, first oscillating means arranged to generate oscillations which vary cyclically as to frequency within a given band of frequencies, means for radiating oscillations of frequencies within a portion only of said band, means for receiving said radiated oscillations after reflection from objects in the path of radiation of said oscillations, second oscillating means arranged to generate additional oscillations which vary cyclically as to frequency in the same manner as said oscillations of said first oscillating means but within a different band of frequencies said cyclic variations of said first and second oscillating means being fixed in phase with each other, means for combining said received oscillations with said additional oscillations, and means for translating the combined oscillations and audible signals directly indicative of the range of said objects.

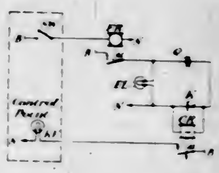
2,659,879
RECOGNIZER CIRCUIT
Ernest W. Pappenfus, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application March 27, 1952, Serial No. 278,933
5 Claims. (Cl. 340—164)

1. A recognizer circuit for actuating a mechanism upon the reception of a predetermined sequence of signals comprising, a signal producing means, a plurality of switches connected to said signal producing means with each switch corresponding to a particular output signal, a pair of relays connected in series between opposite contacts of said plurality of switches, a first of said relays controlling a first movable contact to move it from an open circuit position to a grounded position, a second of said relays connected to a second movable contact to move it from an open circuit position to a closed position, a voltage source



connected to said second movable contact in the closed position, an electron tube, a condenser connected to the grid of said electron tube, a resistor connected between the second movable contact and said grid, the first movable contact connected to said grid, and an actuating means connected in the plate circuit of said electron tube so as to be energized on reception of the correct sequence of signals.

2,659,880
APPARATUS FOR DETECTING RECURRENT CIRCUIT OPERATION
Arthur E. Dodd, Edgewood, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application December 28, 1951, Serial No. 263,945
19 Claims. (Cl. 340—213)



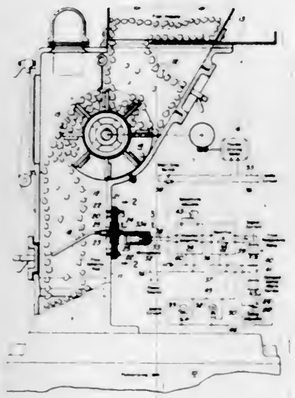
1. In combination, a contact adapted to be recurrently operated between a first and a second position, a source of electrical energy, a storage device capable of storing energy delivered thereto from said source, an asymmetric device, circuit means governed by said contact in one of its two positions for supplying energy from said source to said storage device through said asymmetric device in its conducting direction, a relay having contacts which are picked up when and only when energy flows through a winding of the relay in a given direction, said relay winding being connected in multiple to said asymmetric device so that energy which is supplied thereto in the nonconducting direction of said asymmetric device will flow through said winding in said given direction, and circuit means effective when said contact is in the other of its two positions for supplying energy from said storage device to said asymmetric device and said relay winding.

2,659,881

DETECTION OF STOPPAGE IN THE FLOW OF DIVIDED MATERIAL

Alexander Bogot, Oak Park, Ill., and Harry A. Bishop, Highland Homes, Va., assignors to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware

Application April 26, 1950, Serial No. 158,212
2 Claims. (Cl. 340—239)



1. In apparatus for indicating stoppage in the flow of divided material through a conduit having an opening in the wall thereof, the combination of a centrally apertured disk of resilient material disposed over the opening in the wall of said conduit in substantially coaxial relation therewith and secured to the exterior of said conduit by means of a plurality of circumferentially spaced screws positioned adjacent the periphery thereof, a detector member in the form of an elongated rod snugly fitting within the opening in said disk and having one end projecting into said conduit in the flow path of said divided material to be contacted thereby as the same passes the member, said detector member deriving its support solely from said disk and having means fixedly securing it thereto including clamp nuts threadedly disposed on said rod at either side of said disk and washers of a diameter substantially larger than said clamp nuts but smaller than the opening in said wall positioned between said nuts and said disk and arranged, through proper adjustment of said nuts, to firmly clamp said disk therebetween whereby material contacting said rod will cause the same to vibrate, a microphone arranged to derive its support solely from the other end of said rod and to pick up the vibrations thereof and translate same into electrical impulses, means including an amplifier for strengthening said impulses and producing from same a signal current which persists only as long as said material continues to flow through the conduit and set up the aforesaid vibration of the detector member, a quick-acting flow-responsive relay actuated by said signal current and arranged to have the contacts thereof open when said signal current is flowing therethrough and closed when said signal current ceases to flow therethrough, a second relay having the contacts of said first relay in circuit with the coil thereof and having an adjustable time delay device associated therewith whereby upon closing the contacts of said first relay and consequent energization of the coil of said second relay the normally open contacts of said second relay will close only after elapse of a predetermined period of time, and an alarm circuit activated by closing the contacts of said second relay thereby indicating a stoppage of material flow through said conduit.

2,659,882

METHOD OF PROSPECTING WITH TIMED ELECTRIC ENERGY

William M. Barret, Shreveport, La.

Application December 3, 1947, Serial No. 789,502
18 Claims. (Cl. 343—12)



1. In the art of investigating earth formations including a reflector of electric energy lying beneath the surface of the earth, the step of transmitting from a sending point electric energy along the earth's surface to a receiving point in a manner adapted to simultaneously and progressively refract some of said energy into the earth and downward along multiple substantially parallel paths onto said reflector and thence to said receiving point, and the step of detecting at said receiving point the energy that traveled along the earth's surface from said sending point to said receiving point and the energy that reached said receiving point by reflection at said reflector, wherein the reception of reflected energy is indicative of the presence of said reflector.

2,659,883

RADIO RANGE TRACKING SYSTEM

Eugene V. Haake, Cleveland, Ohio

Application March 29, 1946, Serial No. 658,189
4 Claims. (Cl. 343—15)
(Granted under Title 35, U. S. Code (1952), sec. 266)



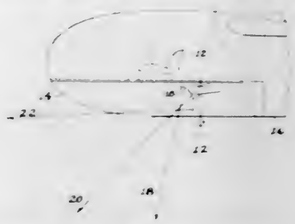
1. A pilot's direction indicating system, including means for producing a first direct voltage the magnitude of which is continuously proportional to the range of a fixed point from a moving aircraft, means for producing a second direct voltage the magnitude of which is proportional to the desired range of said fixed point from said aircraft, a first comparison means for comparing the relative magnitudes of said first and second direct voltages, means for producing a third direct voltage the magnitude of which is continuously proportional to the angle between the heading of said aircraft and a line perpendicular to the ground track of said aircraft, means for producing a fourth direct voltage which is continuously proportional in magnitude to the azimuth angle of said fixed point relative to the heading of said aircraft, a second comparison means for continuously comparing the magnitudes of said third and fourth voltages, and means for providing indications of the information derived from said first and second comparison means.

2,659,884

DIELECTRIC WALL FOR TRANSMISSION OF CENTIMETRIC RADIATION

Edward B. McMillan, Marblehead, Mass., Herbert Leaderman, Arlington, Va., and Raymond M. Redheffer, Boston, Mass.; said Leaderman and said Redheffer assignors to said McMillan

Application August 3, 1949, Serial No. 108,328
8 Claims. (Cl. 343—18)

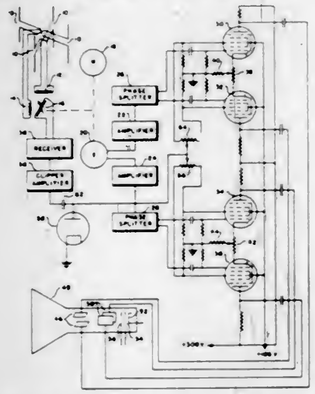


1. A dielectric wall adapted for through passage of electromagnetic waves impinging on the faces thereof, said wall comprising a dielectric sheet wherein the dielectric constant increases from both faces to the interior.

ABSTRACTS OF APPLICATIONS

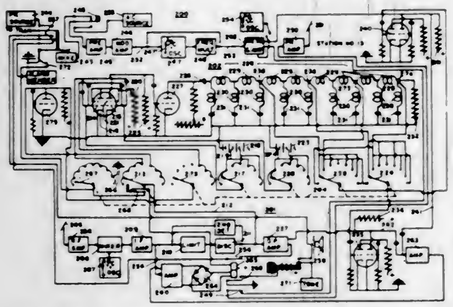
Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 30 cents a sheet.

644,172. **RADIO DIRECTION FINDER.** Gordon P. McCouch, Media, Pa., assignor to the United States of America as represented by the Secretary of War. Filed Jan. 29, 1946. Published Nov. 17, 1953. Class 343—118. 2 sheets of drawings. 14 pages of specification.



This disclosure relates to a radio direction finder. Antenna **10** is connected through quadrature coils **12**, **14** and search coil **16** to receiver **58**. Motor **18** drives search coil **16** and two phase generator **20**. Generator **20** provides time quadrature voltages which are applied through amplifiers **22** and **24** and phase splitters **26** and **28** to the control grids of modulators **30**, **32**, **34** and **36**, the outputs of which are applied to the deflection plates **46**, **50** of cathode ray tube **48**, to produce a circular sweep synchronized with search coil **16**. The output of receiver **58** is applied through clipper amplifier **60** and clamper tube **68** to the modulating grids of modulators **30**, **32**, **34** and **36**.

82,219. **MULTIPLEX TIME DIVISION RADIOPHONE.** Paul W. Homrighous, Oak Park, Ill. Filed Mar. 18, 1949. Published Nov. 17, 1953. Class 250—6. 3 sheets of drawings. 32 pages of specification.



The disclosure relates to a time-division multiplex radio telephone communication system. In particular, apparatus for generating and utilizing control pulses for channel selection is described.

Communication between stations takes place on channels defined by periodically recurring time intervals: each station being adapted to receive during one such period and transmit during another. The time periods are of short duration and recur at a rapid rate, so as to sample the signal input.

The system comprises a master station and a plurality of mobile or fixed subscriber stations such as shown in the figure. The master station includes a pulse generator unit which transmits synchronizing pulses to all the stations in the system for the purpose of channel selection. The generated pulse train comprises a recurring series of control pulses separated by timing pulses. The control pulses of different amplitudes and polarities are transmitted to the subscriber stations whereas the timing pulses are used at the master station for its own channel selection.

The stations comprise generally a transmitter **200**, a receiver **201**, and a channel selector arrangement **202**. The receiver unit, normally in a standby condition, receives the control pulses transmitted from the master station and applies them over lead **212** to step switch **213**. Unit **216** comprises a pulse responsive unit for discriminating between high and low and positive and negative control pulses. Thus when switch **213** is on one of its first six contacts only positive pulses will be passed to amplifier **227**; the other four contacts discriminating in favor of negative pulses. Similarly switches **217** and **222** arrange unit **216** to be selectively responsive to high or low amplitude pulses.

The pulses admitted by unit **216** are amplified at **227** and applied to delay line **229**, **230**, **231** having four taps **238**, **233**, **273**, **274**. These taps are connected through switch banks **234**, **239** to apply the pulses appearing thereat to periodically unblock the receiver at output amplifier **237** and the transmitter at message amplifier **242**. The total delay of the line is equal to four times the duration of the control pulse.

The control pulses, in the example shown, comprise a low amplitude positive pulse, a high amplitude positive pulse, a low amplitude negative pulse and a high amplitude negative pulse, each separated from the succeeding pulse by a time interval equal to four times the width of a control pulse. The control pulses are transmitted cyclically in the order named.

Each of the stations in the system is assigned a pair of intervals for transmission and reception corresponding to two of the four pulse widths occurring between the control pulses. In normal position, the selector is set such that the transmitter and receiver are rendered operative during two of the four intervals after a designated control pulse. Each station is therefore designated by the type of control pulse (e. g. high amplitude, negative) and the numbers of the intervals after the control pulse that the station uses for transmission and reception. To select any station for communication, the call initiating

party adjusts his selector switch until (1) arm **213** selects desired control pulse polarity, (2) arms **217** and **222** select the desired control pulse amplitude, (3) arm **239** selects the transmission interval and (4) arm **234** selects the receiver interval. The call may then proceed if the channels are not already occupied.

Provision is made for ringing and busy signals and the system may be utilized in conjunction with existing telephone facilities.

85,557. **BUS BAR POWER DISTRIBUTION SYSTEM.** Robert C. Wilson, Forestville, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York. Filed Apr. 5, 1949. Published Nov. 17, 1953. Class 174—88. 1 sheet of drawings. 8 pages of specification.



This application relates to a multi-phase bus bar distribution system in which a plurality of bus bar sections are joined together in end-to-end relation. Each section includes a plurality of parallel bus bars of equal length which are edgewise bent at each end. The bent ends of adjacent sections are overlapped and joined to the overlapping ends of another bus bar of the same phase by means of a U-shaped bridging conductor.

134,427. **BUS BAR DISTRIBUTION.** Robert T. Casey, Bristol, Conn., assignor to General Electric Company, a corporation of New York. Filed Dec. 22, 1949. Published Nov. 17, 1953. Class 174—99. 1 sheet of drawings. 7 pages of specification.



The application relates to a polyphase bus bar assembly including a flat conductor for each phase. The bus bars are longitudinally displaced with respect to one another and are insulated from one another and bound together as a unit by means of thermosetting insulating material which surrounds the individual bus bars and the bus bar assembly.

154,738. **DETERGENT COMPOSITION.** Louis H. Libby, Newton Highlands, Mass., assignor to Lever Brothers Company, New York, N. Y., a corporation of Maine. Filed Apr. 7, 1950. Published Nov. 17, 1953. Class 252—137. No drawing. 23 pages of specification.

In accordance with the present disclosure a synthetic detergent composition is provided consisting essentially of 10 to 20% active detergent, at least 40% and preferably 40 to 65% of an alkali metal polyphosphate selected from the group consisting of alkali metal pyrophosphates, alkali metal tripolyphosphates and mixtures thereof, and the residue supplemental builders and water.

The active detergent in the composition consists essentially of two components in certain limited and critical proportions. One essential detergent component thereof is an alkyl aryl sulfonate (generally an alkylated sulfonated mononuclear aromatic hydrocarbon, such as an alkyl benzene sulfonate), or a mixture of two or more thereof, preferably used in the form of an alkali metal or alkaline earth metal salt, including the ammonium, sodium, potassium, zinc, cadmium, barium, magnesium, calcium and strontium salts.

This component of the composition of the disclosure must be present in an amount within the range between 50 and 85% by weight of the active detergent, i. e., between 5 and 17% by weight of the composition.

The second essential detergent component thereof is one or a mixture of two or more aliphatic amidoalkylidene sulfonates of the following structure:

$$R—CO—N(R')—(CH_2)_nSO_3A$$

where A is hydrogen or an alkali metal, i. e., ammonium, sodium, or potassium, n is a small whole number from 1 to about 5, preferably 2 or 3, R' is hydrogen, or an alkyl, aryl, or cycloaliphatic group, such as methyl, and R is an alkyl radical, such as myristyl, palmityl, oleic and stearyl. Sodium palmitic tauride, sodium palmitic methyl tauride, sodium myristic methyl tauride, sodium palmitic-stearyl methyl tauride and sodium palmitic methyl amidopropylene sulfonate have been found to be particularly suitable for use in the compositions of the disclosure.

The amidoalkylidene sulfonate must be present in an amount within the range between 15 and 50% by weight of the active detergent, and preferably in the range from 30 to 50%. However, the lower the total amount of active detergent mixture by weight of the composition (within the range of 10 to 20%) the higher is the preferred amount of amidoalkylidene sulfonate within the range up to 50%. Thus, there is preferably between 3 and 10% amidoalkylidene sulfonate by weight of the composition.

In combination with a mixture of the above mentioned detergents in amounts within the critical ranges stated, at least 40% of an alkali metal polyphosphate, such as those selected from the group consisting of pyrophosphates and tripolyphosphates or mixture thereof, is employed.

Any alkali metal polyphosphates of these two classes give this result, and include tetrasodium, potassium, and ammonium pyrophosphates and mixed salts thereof, and pentasodium, ammonium and potassium polyphosphates of the general formula $A_5P_3O_{10}$, where A is one of the above-mentioned alkali metals, and mixed salts thereof.

159,852. **MAROON COATING COMPOSITIONS.** Thomas R. Matthews, Jr., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware. Filed May 3, 1950. Published Nov. 17, 1953. Class 260—17. No drawing. 19 pages of specification.

This disclosure relates to maroon and polychromatic maroon lacquer enamel compositions comprised of cellulose nitrate, a polymeric methacrylic acid ester of an aliphatic monohydric alcohol having no more than six carbon atoms, preferably polymeric butyl methacrylate, and, as a pigment, an insoluble organic dyestuff in the form of a manganese salt of an azo dyestuff derived by coupling 2-hydroxy-3-naphthoic acid with 2-amino-benzoic acid substituted in the 4 position with a member of the group consisting of chlorine, bromine, iodine or nitro. Other methacrylate polymers, such as those derived

from methacrylic acid and methyl, ethyl, normal propyl, isobutyl, and cyclohexyl alcohols, may be used, as well as copolymers of normal butyl methacrylate with minor proportions of acrylonitrile.

The vehicle preferably contains about 4 to 15 parts by weight of polymeric methacrylate to 10 parts of cellulose nitrate.

Polychromatic maroon coating compositions are prepared from the maroon coating composition by the addition of finely divided metal flakes. The metal flakes may constitute as much as 10% based on the content of color pigments present, but 5% or less is preferred.

The metal flakes may be aluminum metal flakes, or aluminum paste. Other lamellar pigments, such as mica, graphite, and Pearl Essence may also be used although aluminum is preferred.

Various plasticizers may be used, including dibutyl phthalate in combination with castor oil, or dibutyl phthalate in combination with ester plasticizers, such as dioctyl phthalate, dibenzyl adipate, dibenzyl sebacate, and benzyl butyl phthalate.

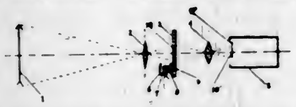
The pigment to binder ratio may vary from about .150 to .300 part of pigment to each part of binder.

A representative example of such a composition follows:

	Parts
Cellulose nitrate (⅜ second viscosity)	11.1
N. butyl methacrylate polymer	5.5
Dibutyl phthalate	4.7
Castor oil	3.1
Manganese maroon pigment	5.5
Aluminum metal flake (as described below)	0.1
Lacquer solvents and diluents	70.0
	100.0

The manganese pigment is a manganese salt of an azo dyestuff derived from 2-hydroxy 3-naphthalic acid coupled with 2-amino benzoic acid having chlorine substituted in the 4 position.

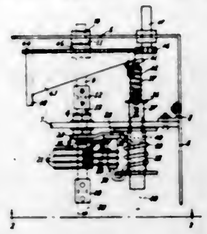
183,624. **SYSTEM OF COLOUR AND OF STEREOSCOPIC TELEVISION.** Manfred Mannheimer, Newark, N. J. Filed Aug. 28, 1950. Published Nov. 17, 1953. Class 178—5.2. 1 sheet of drawings. 4 pages of specification.



In both the transmitter and the receiver, optical filter plates are applied at the locus of a real image of the object to be televised, said filters bearing a system of transparent or translucent stripes in the basic colours following the horizontal sweep lines, i. e. 175 lines per colour in a three-colour system, and 131 bands of double sweep-line width per colour in a two-colour (or stereoscopic) system. Fig. 1 shows how a real image **10** of the object **1** is projected by a lens **2** onto such a colour filter plate (photographically produced) **3**, and how this filtered real image **10** is further projected by a second lens **4** into the standard camera **5**, where it forms a transmitted real image **10'**. The auxiliary lamp **7** shielded by the reflector **6** illuminates a filter **8** in a basic colour component to transmit simultaneously a test spot **9** with real image **9'** external to the picture frame. This test spot serves, in the receiving set, for manually or automatically adjusting the sweep lines onto the correct colour. The receiver is either of the projection type with a similar colour filter adjacent to the screen, or comprises a cathode ray tube with a similar colour filter in glass enamels on the face plate, upon which the fluorescent phosphor coating is applied. The system is compatible, since it does not deviate from the usual equipment except for the special optical eye piece in the transmitter camera and eventually a special cathode ray tube in a direct view receiver.

222,128. **VARIABLE TUNERS.** Robert D. Linx, Silver Spring, Md., and Ralph J. Renton, Falls Church, Va. Filed Apr. 20, 1951. Published Nov. 17, 1953. Class 250—40. 1 sheet of drawings. 8 pages of specification.

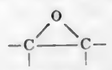
(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



An electrical device for simultaneously varying circuit inductance and capacity over wide limits at any selected rate, the device comprising a solenoid inductance consisting of a coil unit, a sleeve extending therethrough, a core mounted for movement inwardly and outwardly of the sleeve, a rod projecting from the core in the longitudinal alignment therewith, a rotor-stator variable condenser comprising stators electrically connected with the coil unit, a shaft adjacent to and parallel with the coil and core units, the rotors of the condenser being mounted on said shaft, a cam member on the shaft and associated with said rod for moving the latter and the core attached thereto inwardly and outwardly relative to said sleeve, and means for rotating said shaft to effect simultaneous actuation of the core and rotors.

256,131. **SOLUTIONS OF POLYVINYL CHLORIDE.** Robert L. Adelman, Grand Island, N. Y., and Isabel M. Klein, Buffalo, N. Y. Filed Nov. 13, 1951. Published Nov. 17, 1953. Class 260—30.4. No drawing. 7 pages of specification.

It was discovered that although liquid epoxides are relatively nonsolvents for the highly polymerized homopolymers of vinyl chloride, they become very good solvents in the presence of up to 50% by volume of tetrahydrofuran. Such solvent mixtures have considerable economic advantage over the use of tetrahydrofuran alone. Epoxides suitable for this purpose can be aliphatic or aromatic and may have one or more of the group

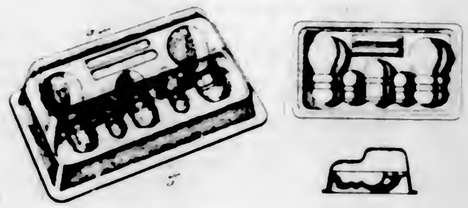


and may be cyclic or acyclic. Olefinic or acetylenic unsaturation is unsatisfactory since compounds containing such groups are at best mere diluents of tetrahydrofuran. Preferred epoxides contain from 3 to 8 carbon atoms and specific examples are propylene oxide, n-butylene oxide, butadiene diepoxide, cyclohexene oxide and vinyl cyclohexene diepoxide.

DESIGNS

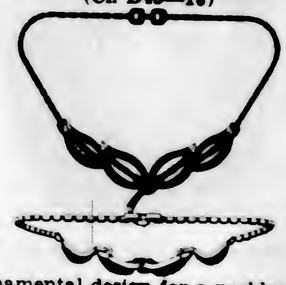
NOVEMBER 17, 1953

170,846
DISPLAY CONTAINER FOR LAMP BULBS
John Robert Bassler, Newark, N. J., assignor to Hudson Lamp Company, Arlington, N. J., a corporation of New Jersey
Application November 19, 1952, Serial No. 22,373
Term of patent 7 years
(Cl. D58—13)



The ornamental design for a display container for lamp bulbs, as shown.

170,847
NECKLACE OR SIMILAR ARTICLE
Marcel Boucher, Eltingeville, N. Y.
Application July 20, 1953, Serial No. 26,038
Term of patent 3½ years
(Cl. D45—16)



The ornamental design for a necklace or similar article, as shown.

170,848
BRACELET OR SIMILAR ARTICLE
Marcel Boucher, Eltingeville, N. Y.
Application July 20, 1953, Serial No. 26,039
Term of patent 3½ years
(Cl. D45—4)



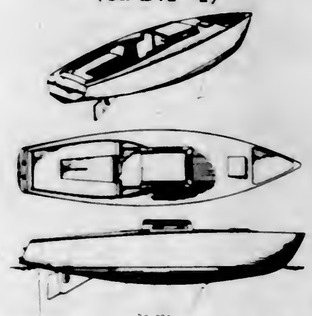
The ornamental design for a bracelet or similar article, as shown.

170,849
RADIOPHONOGRAPH CABINET
Robert Davol Budlong, Skokie, Ill., and Jack De Young, Grand Haven, Mich., assignors to Zenith Radio Corporation, a corporation of Illinois
Application April 29, 1953, Serial No. 24,759
Term of patent 7 years
(Cl. D56—4)



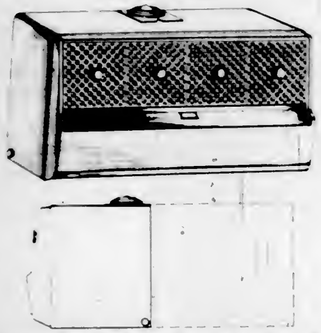
The ornamental design for a radio-phonograph cabinet, substantially as shown and described.

170,850
BOAT
Edwin Farnham Butler, Mount Desert, and Cyrus Hamlin, Southwest Harbor, Maine
Application August 2, 1952, Serial No. 20,286
Term of patent 14 years
(Cl. D71—1)



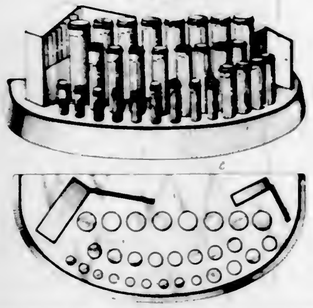
The ornamental design for a boat, substantially as shown and described.

170,851
ROOM COOLER
David P. Chuboff, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application February 19, 1953, Serial No. 23,701
Term of patent 14 years
(Cl. D62—4)



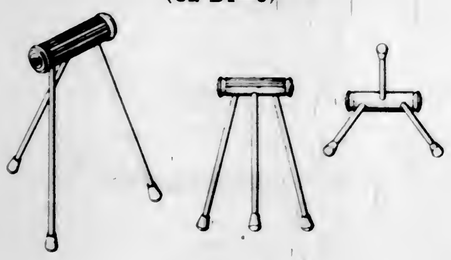
The ornamental design for a room cooler, as shown and described.

170,852
DRILL DISPLAY UNIT OR SIMILAR ARTICLE
Laurence H. Drohman, St. Paul, Minn.
Application October 15, 1952, Serial No. 21,841
Term of patent 14 years
(Cl. D80—9)

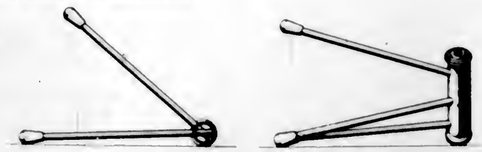


The ornamental design for a drill display unit or similar article, substantially as shown and described.

170,853
SHOWER FOOTREST
Sidney R. Dunham, Seattle, Wash.
Application August 10, 1953, Serial No. 26,363
Term of patent 14 years
(Cl. D4—3)



170,853—Continued



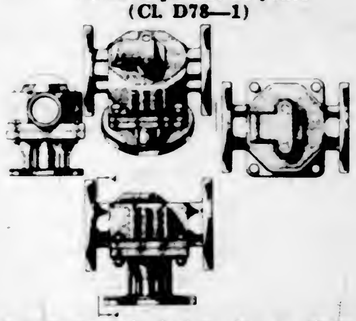
The ornamental design for a shower footrest, substantially as shown.

170,854
TIRE
Elliott S. Ewart, deceased, late of St. Clair Shores, Mich., by Vera L. Ewart, executrix, St. Clair Shores, Mich., and David S. Hackley, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application July 20, 1953, Serial No. 26,057
Term of patent 7 years
(Cl. D90—20)



The ornamental design for a tire, as shown.

170,855
THERMOSTATIC VALVE
Elton B. Fox, El Cerrito, Calif.
Application April 7, 1952, Serial No. 19,225
Term of patent 14 years
(Cl. D78—1)



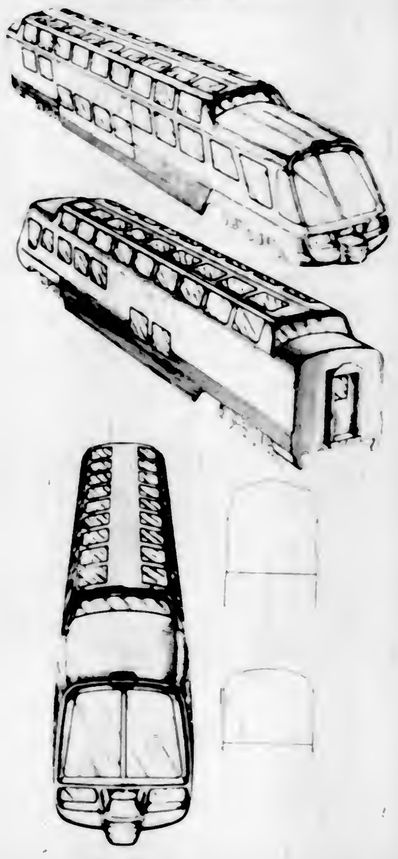
The ornamental design for a thermostatic valve, substantially as shown and described.

170,856
CHEST
Merton L. Gershun, Martinsville, Va., assignor to American Furniture Company, Martinsville, Va.
Application August 14, 1952, Serial No. 21,041
Term of patent 7 years
(Cl. D33—19)

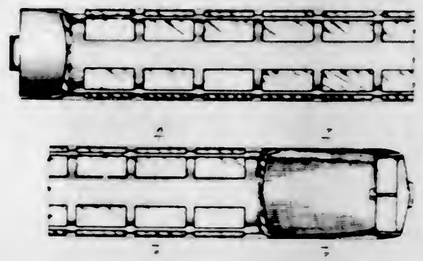


The ornamental design for a chest, substantially as shown.

170,857
RAILWAY CAR BODY
Alfred B. Girardy, Park Forest, Clarence V. Norby, Chicago, and Donald W. Doman, Harvey, Ill., assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application October 16, 1952, Serial No. 21,862
Term of patent 14 years
(Cl. D66—1)

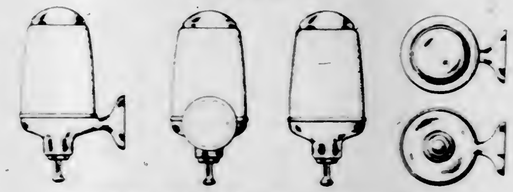


170,857—Continued



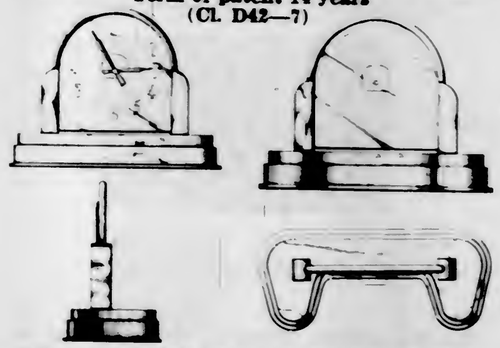
The ornamental design for a railway car body, substantially as shown and described.

170,858
DISPENSER FOR POWDERED OR GRANULAR MATERIALS
George Graff, Toledo, Ohio, assignor to Gerity-Michigan Corporation, Adrian, Mich., a corporation of Michigan
Application July 14, 1953, Serial No. 25,933
Term of patent 14 years
(Cl. D4—3)



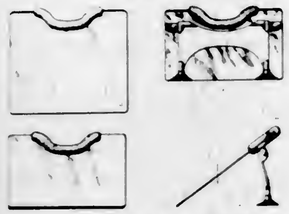
The ornamental design for a dispenser for powdered or granular materials, substantially as shown and described.

170,859
CLOCK
Irving B. Hall, Chicago, Ill.
Application November 28, 1952, Serial No. 22,484
Term of patent 14 years
(Cl. D42—7)



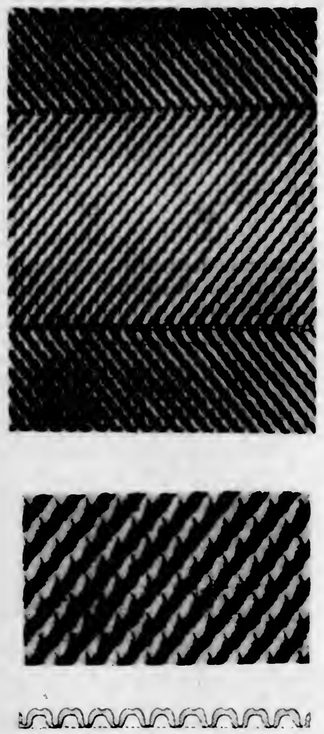
The ornamental design for a clock, as shown and described.

170,860
CHILD'S HEAD SUPPORT FOR USE IN BATHTUBS
Evelyn Harris, Pelham Manor, N. Y.
Application June 15, 1953, Serial No. 25,494
Term of patent 7 years
(Cl. D4—3)



The ornamental design for a child's head support for use in bathtubs, substantially as shown.

170,861
RUG CUSHION OR SIMILAR ARTICLE
Dixon R. Harwin, Alfred Stern, and Virgil H. Bodle, Los Angeles County, Calif., assignors to National Sponge Cushion Co., Inc., Los Angeles, Calif., a corporation of California
Application December 27, 1952, Serial No. 22,895
Term of patent 14 years
(Cl. D92—21)



The ornamental design for a rug cushion or similar article, substantially as shown and described.

170,862
TIRE
Earle W. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application July 27, 1953, Serial No. 26,140
Term of patent 14 years
(Cl. D90—20)



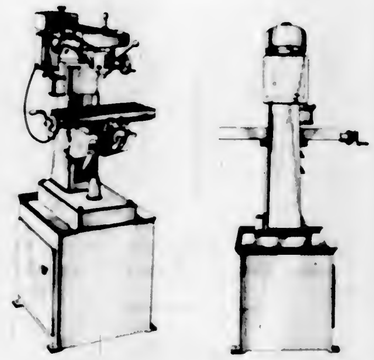
The ornamental design for a tire, as shown and described.

170,863
LADY'S STOCKING
Frank Hoffecker, Charlotte, N. C., assignor to Chadbourn Hosiery Mills, Inc., Charlotte, N. C., a corporation of North Carolina
Application August 25, 1952, Serial No. 21,182
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown.

170,864
VERTICAL MILLING MACHINE OR SIMILAR ARTICLE
Ingvar O. Johansson, Chicago, Ill.
Application August 28, 1952, Serial No. 21,224
Term of patent 14 years
(Cl. D54—14)



The ornamental design for a vertical milling machine or similar article, substantially as shown and described.

170,865
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,729
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,866
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,736
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,867
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,975
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,868
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,976
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,869
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,979
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,870
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,985
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,871
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,087
Term of patent 7 years
(Cl. D45—19)



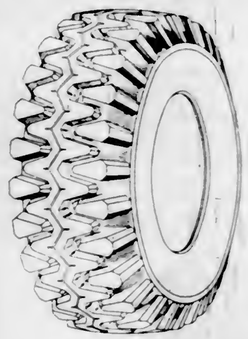
The ornamental design for a brooch or the like, substantially as shown.

170,872
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,089
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,873
TIRE
Paul N. Kaufman, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio
Application January 2, 1953, Serial No. 22,997
Term of patent 14 years
(Cl. D90—20)



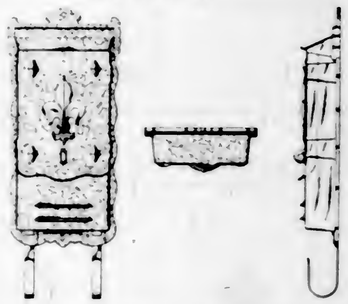
The ornamental design for a tire, substantially as shown.

170,874
FOOD WASTE DISPOSER OR THE LIKE
Raoul A. Lambert, Springfield, Mass., assignor to Westinghouse Electric Corporation, a corporation of Pennsylvania
Application July 8, 1952, Serial No. 20,512
Term of patent 14 years
(Cl. D55—1)



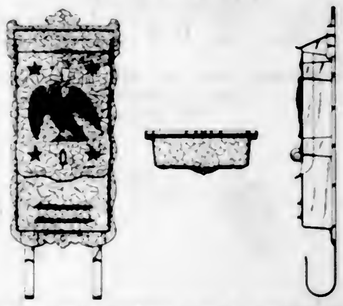
The ornamental design for a food waste disposer or the like, substantially as shown and described.

170,875
MAILBOX
Irving A. Levine, Woodmere, N. Y.
Application July 1, 1953, Serial No. 25,749
Term of patent 14 years
(Cl. D74—9)



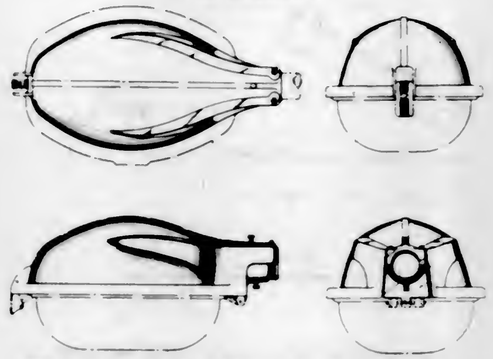
The ornamental design for a mailbox, substantially as shown.

170,876
MAILBOX
Irving A. Levine, Woodmere, N. Y.
Application July 1, 1953, Serial No. 25,750
Term of patent 14 years
(Cl. D74—9)



The ornamental design for a mailbox, substantially as shown.

170,877
LUMINAIRE
Robert W. Loehr, Lakewood, Ohio, assignor to Westinghouse Electric Corporation, a corporation of Pennsylvania
Application December 31, 1952, Serial No. 22,959
Term of patent 14 years
(Cl. D48—31)



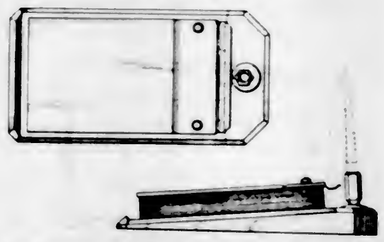
The ornamental design for a luminaire, as shown and described.

170,878
COMBINED STAPLER AND STAPLE REMOVER OR SIMILAR ARTICLE
Herbert W. Marano, Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts
Application June 25, 1953, Serial No. 25,653
Term of patent 14 years
(Cl. D74—1)



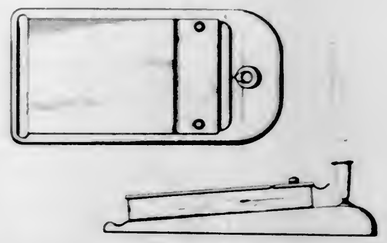
The ornamental design for a combined stapler and staple remover or similar article, as shown.

170,879
COMBINED DESK PAD AND PENHOLDER
Herbert W. Marano, Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts
Application July 16, 1953, Serial No. 25,997
Term of patent 14 years
(Cl. D74—1)



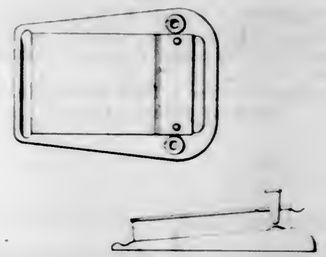
The ornamental design for a combined desk pad and penholder, as shown and described.

170,880
COMBINED DESK PAD AND PENHOLDER
Herbert W. Marano, Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts
Application July 16, 1953, Serial No. 25,998
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a combined desk pad and penholder, as shown and described.

170,881
COMBINED DESK PAD AND PENHOLDER
Herbert W. Marano, Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts
Application July 16, 1953, Serial No. 25,999
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a combined desk pad and pen holders, as shown and described.

170,882
TELEVISION RECEIVER
Roger McGunnigle, New York, N. Y.
Application June 11, 1953, Serial No. 25,450
Term of patent 14 years
(Cl. D56—4)



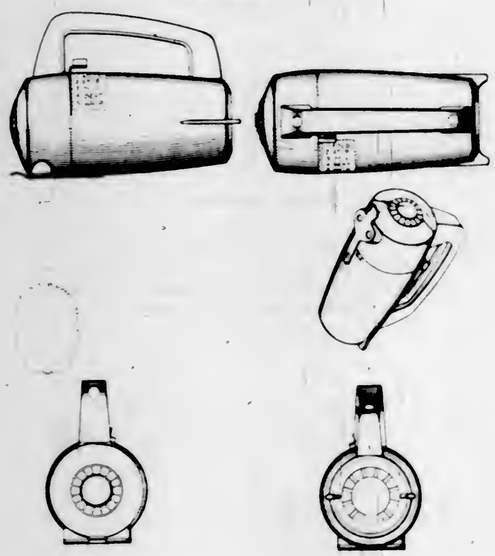
The ornamental design for a television receiver, substantially as shown.

170,883
PLATFORM FOR FIGURINES OR THE LIKE
Edward E. Mecus, Shorewood, Wis., assignor to Dexter-Mahnke Inc., Milwaukee, Wis., a corporation of Wisconsin
Application February 9, 1953, Serial No. 23,496
Term of patent 3½ years
(Cl. D33—1)



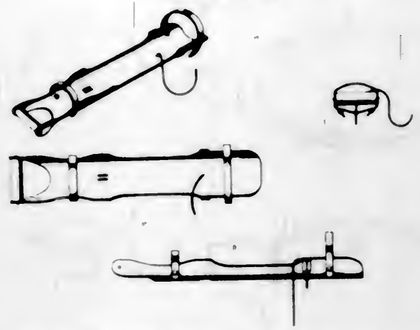
The ornamental design for a platform for figurines or the like, as shown.

170,884
PORTABLE FOOD MIXER UNIT
Jack Morgan, Chicago, Ill., assignor to Dormeyer Corporation, Chicago, Ill., a corporation of Illinois
Application October 1, 1952, Serial No. 21,666
Term of patent 14 years
(Cl. D44—1)



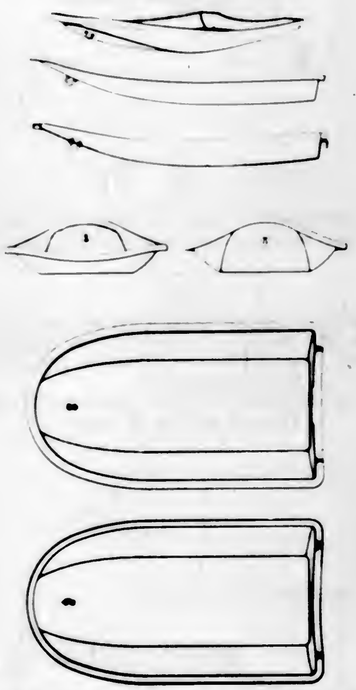
The ornamental design for a portable food mixer unit, as shown and described.

170,885
ARM RESTRAINT
John Vernon Neville, Columbus, Mont., assignor to The Neville-Robinson Company, Duluth, Minn., a corporation
Application December 30, 1952, Serial No. 22,923
Term of patent 14 years
(Cl. D83—1)



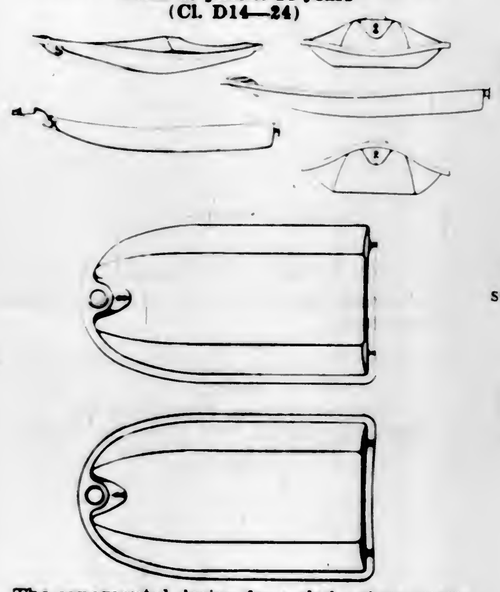
The ornamental design for an arm restraint, as shown.

170,886
SLED
Frederick T. Paden, Collingswood, N. J., and Alexander C. H. Weiss, Chicago, Ill., assignors to the United States of America as represented by the Secretary of the Army
Application May 16, 1952, Serial No. 19,738
Term of patent 14 years
(Cl. D14—24)



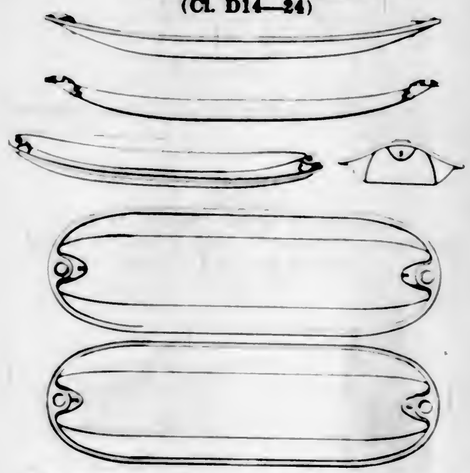
The ornamental design for a sled, substantially as shown and described.

170,887
SLED
Frederick T. Paden, Collingswood, N. J., and Alexander C. H. Weiss, Chicago, Ill., assignors to the United States of America as represented by the Secretary of the Army
Application May 16, 1952, Serial No. 19,739
Term of patent 14 years
(Cl. D14—24)



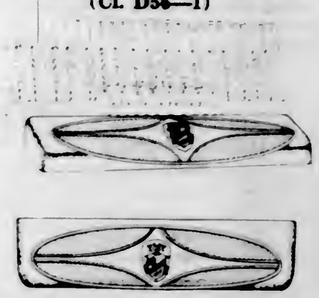
The ornamental design for a sled, substantially as shown and described.

170,888
SLED
Frederick T. Paden, Collingswood, N. J., and Alexander C. H. Weiss, Chicago, Ill., assignors to the United States of America as represented by the Secretary of the Army
Application May 16, 1952, Serial No. 19,741
Term of patent 14 years
(Cl. D14—24)



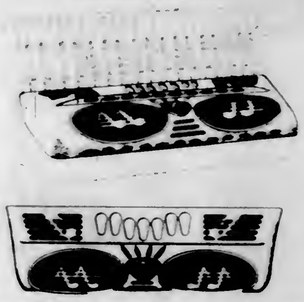
The ornamental design for a sled, substantially as shown and described.

170,889
ACCORDION GRILL
Mario Pancotti, Bronxville, N. Y.
Application April 9, 1953, Serial No. 24,424
Term of patent 3½ years
(Cl. D56—1)



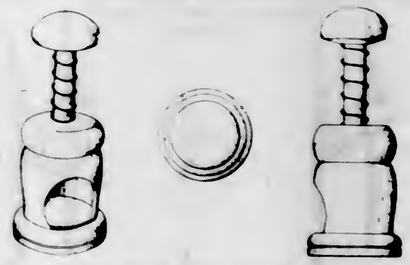
The ornamental design for an accordion grill, substantially as shown and described.

170,890
ACCORDION GRILL
Mario Pancotti, Bronxville, N. Y.
Application April 9, 1953, Serial No. 24,425
Term of patent 3½ years
(Cl. D56—1)



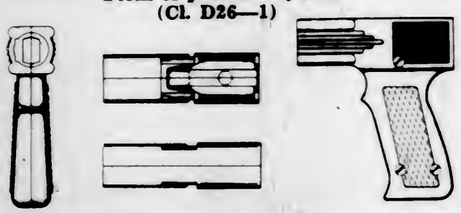
The ornamental design for an accordion grill, substantially as shown and described.

170,891
NUTCRACKER
John C. Rumsey, Lawrence, Kans., assignor of one-half to Ferne R. Vanderheef, Lawrence, Kans.
Application January 26, 1953, Serial No. 23,284
Term of patent 3½ years
(Cl. D44—1)



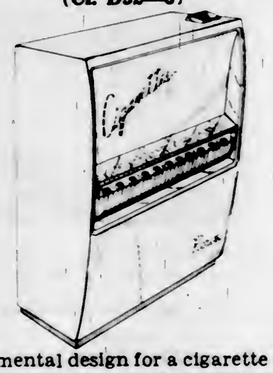
The ornamental design for a nutcracker, as shown.

170,892
COMBINED HOLDER AND HANDLE FOR ELECTRIC SOLDERING IRONS AND THE LIKE
Alexander Schoenwald, Grove City, Pa., assignor to P. Wall Mfg. Company, Grove City, Pa., a corporation of Pennsylvania
Application March 19, 1953, Serial No. 24,102
Term of patent 14 years
(Cl. D26—1)



The ornamental design for a combined holder and handle for electric soldering irons and the like, as shown.

170,893
CIGARETTE MERCHANDISING MACHINE CABINET
Raymond Spilman, Bronxville, N. Y., Anthony R. Morrow, Newton, N. J., and Edwin Axel, Cleveland, Ohio, assignors to Rowe Manufacturing Co., Inc., Whippany, N. J., a corporation of New York
Application April 27, 1953, Serial No. 24,710
Term of patent 14 years
(Cl. D52—3)



The ornamental design for a cigarette merchandising machine cabinet, substantially as shown and described.

170,894
WALL STAND
Echo E. Svic, Wauwatosa, Wis.
Application December 31, 1952, Serial No. 22,939
Term of patent 7 years
(Cl. D33—3)



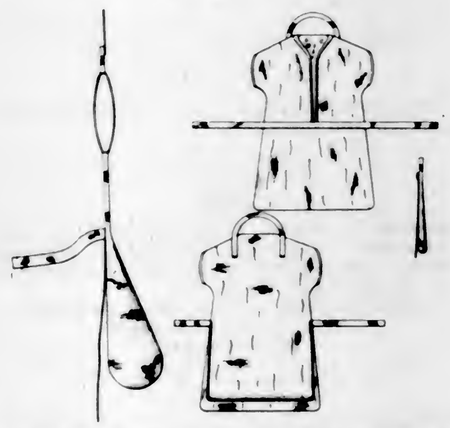
The ornamental design for a wall stand, as shown.

170,895
DRESS
Marie Tait, Bloomingdale, N. J.
Application July 7, 1953, Serial No. 25,833
Term of patent 3½ years
(Cl. D3—26)



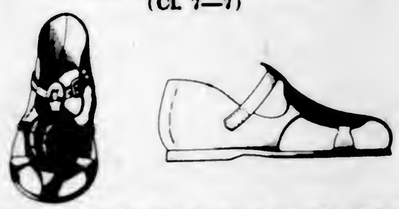
The ornamental design for a dress, substantially as shown.

170,896
APRON
Frances Warren, Pittsburgh, Pa.
Application May 5, 1953, Serial No. 24,865
Term of patent 7 years
(Cl. D3—26)



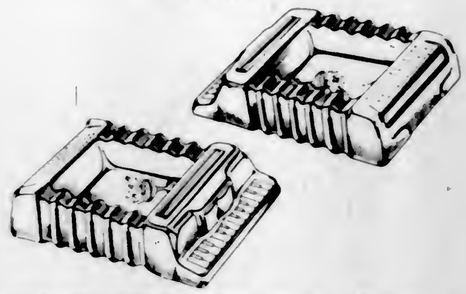
The ornamental design for an apron, as shown and described.

170,897
SANDAL
Alexander S. Weisz, Pitman, N. J.
Application October 21, 1952, Serial No. 21,913
Term of patent 3½ years
(Cl. 7—7)



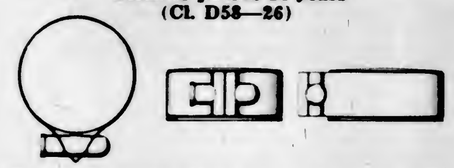
The ornamental design for a sandal, substantially as shown.

170,898
ASH TRAY
Lawrence Welk, River Forest, Ill.
Application May 21, 1953, Serial No. 25,131
Term of patent 14 years
(Cl. D85—2)



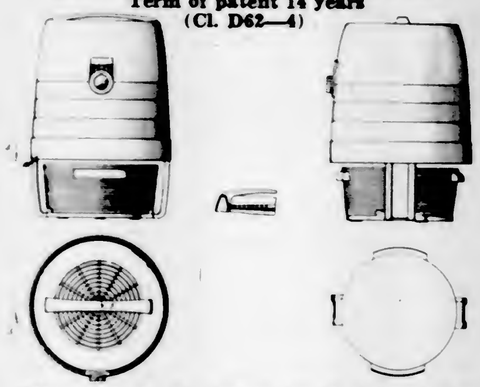
The ornamental design for an ash tray, as shown.

170,899
COMBINED POWDER BOX, LIPSTICK CONTAINER, AND HOLDER THEREFOR OR SIMILAR ARTICLE
Alice Jones Whitehead, New York, N. Y., and John Francis Lang, Clifton, N. J., assignors to Bourjois, Inc., New York, N. Y., a corporation of New York
Application June 22, 1953, Serial No. 25,608
Term of patent 14 years
(Cl. D58—26)



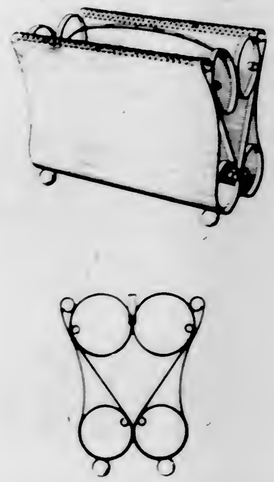
The ornamental design for a combined powder box, lipstick container, and holder therefor, or similar article, substantially as shown.

170,900
DEHUMIDIFIER
Lawrence H. Wilson, Detroit, Mich., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application April 1, 1953, Serial No. 24,307
Term of patent 14 years
(Cl. D62—4)



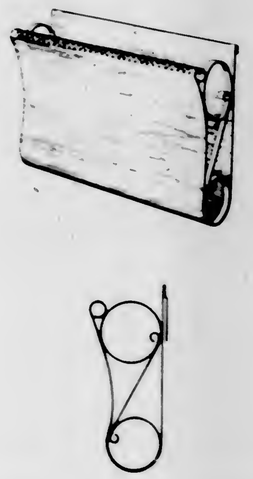
The ornamental design for a dehumidifier, as shown.

170,901
NEWSPAPER AND PERIODICAL HOLDER OR SIMILAR ARTICLE
Saul K. Wolff, Long Beach, N. Y.
Application August 21, 1953, Serial No. 26,539
Term of patent 14 years
(Cl. D33—2)



The ornamental design for a newspaper and periodical holder or similar article, as shown.

170,902
NEWSPAPER AND PERIODICAL HOLDER OR SIMILAR ARTICLE
Saul K. Wolff, Long Beach, N. Y.
Application August 21, 1953, Serial No. 26,540
Term of patent 14 years
(Cl. D33—2)



The ornamental design for a newspaper and periodical holder or similar article, as shown.

November 24, 1953 Volume 676 Number 4

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

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U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business November 6, 1953

Total number of patent applications awaiting action, 103,339. Date of oldest new application, January 7, 1953; date of oldest amended application, January 5, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders Sewerage.	3-2-53	2-24-53	1350
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	2-24-53	2-16-53	1237
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus) Heating; Coating or Plastic Composition (part).	3-16-53	3-12-53	1907
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	2-16-53	2-16-53	1521
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	2-2-53	2-6-53	1351
6. SURLE, H., Carbon Chemistry (part)	1-7-53	1-9-53	2135
7. GONSALVES, J. E., Optics; Photography (part)	2-9-53	2-5-53	1785
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	3-9-53	3-9-53	1484
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	2-16-53	2-16-53	1209
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	3-11-53	3-12-53	1329
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting, Nailing, Stapling and Clip Clenching, Cutlery; Cleaning and Liquid Treatment of Solids.	3-2-53	2-26-53	1182
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake Transmission with Clutch or Brake.	2-14-53	2-11-53	1789
13. BEALL, T. E., Gear Cutting, Milling, Planing, Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning, Electric Lamp or Discharge Devices, Manufacture or Repair	1-30-53	2-2-53	1238
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire, Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	3-5-53	3-2-53	1422
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	2-9-53	2-9-53	1735
16. LOVEWELL, N. N., Television; Telephony; Recorders	1-23-53	1-19-53	1786
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters, Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	2-20-53	2-16-53	1456
18. KURZ, J. A., Power Plants; Speed Responsive Devices	2-9-53	2-10-53	1344
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	2-5-53	1-8-53	1124
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	3-9-52	3-9-53	1237
21. MADER, R. C., Textiles	2-12-53	2-12-53	1292
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	3-2-53	3-2-53	1195
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	2-11-53	2-5-53	1017
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	4-13-53	4-13-53	1092
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators, Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	1-22-53	1-23-53	1419
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	2-20-53	2-24-53	2003
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	3-2-53	2-20-53	1264
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	3-3-53	3-9-53	1405
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	2-11-53	2-9-53	1055
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	4-27-53	4-27-53	1422
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	2-2-53	2-2-53	2543
32. BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	3-20-53	3-11-53	1348
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	2-16-53	2-10-53	1977
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	1-29-53	1-30-53	1269
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	3-11-53	3-11-53	1432
36. McFADYEN, A. D., Measuring and Testing	2-6-53	2-27-53	1082
37. LEVY, M. L., Electricity-Switches, Welding, Heating	3-4-53	3-10-53	1716
38. MARMELSTEIN, N., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-22-53	1-28-53	1297
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	3-25-53	3-26-53	1550
40. DRUMMOND, E. J., Receptacles (part); Packages	6-1-53	6-2-53	896
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	3-2-53	2-25-53	1706

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	2-9-53	2-9-53	2263
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	2-12-53	2-11-53	1916
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	2-19-53	2-16-53	1316
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	2-11-53	2-4-53	1195
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	2-19-53	2-20-53	1565
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	2-2-53	1-28-53	2282
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	2-24-53	2-24-53	1466
50. BENGEL, W. G., Synthetic Resins; Rubber	4-20-53	4-20-53	1889
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	2-26-53	2-24-53	1694
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	3-12-53	3-17-53	1973
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	3-9-53	3-6-53	987
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	2-24-53	2-24-53	1902
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-7-53	1-5-53	1651
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	3-27-53	3-27-53	1326
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making, Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	3-9-53	3-9-53	1811
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	2-9-53	2-6-53	1344
59. BRINDISI, M. A. (Acting), Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	2-23-53	2-20-53	1505
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	3-30-53	3-30-53	886
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	2-26-53	3-2-53	1845
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	2-3-53	2-2-53	2008
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	2-16-53	2-17-53	1734
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	3-2-53	3-3-53	832
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	3-2-53	3-6-53	1595
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	3-2-53	3-2-53	1072
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	1-8-53	1-12-53	3707
DESIGNS: A—BREHM, G. L., Industrial Arts	6-8-53	6-24-53	1110
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	6-8-53	7-2-53	854

Number of new applications received week ending October 16, 1953

PATENTS 1,369 DESIGNS 80 REISSUES 1 TOTAL 1,450

Total number of trade-mark applications awaiting action (including renewals and republications), 11,592
Date of oldest new application, June 8, 1953; date of oldest amended application, June 4, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	6-9-53	6-9-53	2785
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	6-8-53	6-8-53	2917
Renewals (All Classes)	9-4-53	10-7-53	360
Republications (All Classes)	9-1-53	10-8-53	265
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	6-12-53	6-16-53	2612
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	6-18-53	6-4-53	2653

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE HARDING

No. 5990. Decided June 3, 1953

[205 F.2d 171; 98 USPQ 161]

1. PATENTABILITY— INVENTION—MERE NOVELTY INSUFFICIENT PARTICULARLY IN BUILDING ART.

"Mere novelty does not however connote patentability, particularly in the building art wherein it is regarded as routine practice in designing new structures to adapt and modify basic architectural plans to provide for better, more economical, and more desirable housing."

2. SAME—PARTICULAR SUBJECT MATTER—BUILDING CONSTRUCTION.

Certain claims to a building construction *Held* properly rejected as failing to define invention over the cited prior art.

APPEAL from Patent Office. Serial No. 587,930.

AFFIRMED.

James J. Shanley (*Paul T. O'Neil* of counsel) for appellant.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the rejection by the Primary Examiner of claims 26 and 28 of appellant's application for a patent relating to building constructions of the prefabricated type, including a plurality of sections or bays providing a large floor area. No claims were allowed and the appealed claims were rejected on the following art of record: Goodrich, 1,350,493, August 24, 1920; Joy (Australian), 115,871, September 15, 1942; Jackson et al., 2,341,044, February 8, 1944.

The involved structure appears to be obvious from a reading of the claims, of which claim 26 is illustrative:

26. In building construction, the combination comprising supporting means, a first set of longitudinally spaced laterally extending ribs supported at corresponding lower ends by said supporting means, the lower ends of the ribs lying in a straight line, the other corresponding ends of said set terminating in predetermined spaced relation to and above the supporting means, each rib being in the form of an arc of a circle of 120 degrees in length, the ribs being arranged in parallel vertical planes, structural means supporting the termini of the ribs, a second set of longitudinally spaced laterally extending ribs arranged with corresponding ends contiguous to the termini of the first set of ribs and supported by said structural means, the other corresponding ends of said second set terminating in predetermined spaced relation to and above the supporting means, each rib of the second set being in the form of an arc of a circle of 60 degrees in length, the ribs of the second set being arranged in parallel vertical planes, and structural means supporting the termini of the second set of ribs, the radii of all the ribs being substantially equal and the centers of said arcs of said first and second sets of ribs falling respectively in two straight lines parallel to one another, the first claimed straight line and the last claimed two straight lines all lying in a common plane.

The alleged invention is thus summarized in appellant's brief:

Appellant has provided a relatively large building construction made up of sets of arch ribs forming a building including any desired number of bays or sections of any desired length. The bays or sections are of equal height with their points of maximum height being coplanar and lying an equal distance above the foundation. This construction results from utilization of sets of arch rib elements of 120° and 60° in length with the elements having equal radius of curvature and with the centers of the arcs of each set of arch rib sections lying along parallel lines coplanar with the lower ends of one 120° arch rib section.

The Board deemed it unnecessary to consider the patent to Goodrich in view of appellant's concession that it is old in the art to use arched-rib framework in buildings as disclosed by the reference.

The patent to Jackson et al. relates to containers for the storage of liquids or gases under pressure. It discloses intersecting spherical pressure tanks secured together by means of flat circular diaphragms. The Examiner noted in his statement of November 29, 1951, that the Jackson disclosure teaches the use of a tank structure having side portions of 120° arcs and intermediate roof portions of 60°. There are approximately three pages of mathematical material submitted in the specification of the reference and the Solicitor for the Patent Office notes in his brief that the intermediate roof portions of Jackson et al. are each 60° of arc in extent and form bays of equal height, and the side portions of the upper half of the structure are each 120° of arc in extent.

The Board in its decision remarked with respect to appellant's disclosure:

It is true that with such [claimed] construction the height of the highest point of the intermediate section above the foundation is not equal to the radius of curvature of the rib element. This specific structure, however, is suggested in Jackson et al. wherein the highest point of the intermediate section is at the same level as the highest point of the end sections.

It is deemed appropriate to here quote the following excerpt from the specification of Jackson et al.:

One of the principal advantages of our invention is that comparatively large structures may be built without requiring much, if any, additional support for the relatively thin sheet metal shell surfaces. The circular diaphragms which are an inherent part of our invention act to very

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efficiently support the membrane surfaces of our structure. In the case of very large structures it is desirable to reinforce or stiffen the diaphragms so that they will more effectively support the membrane surfaces and in cases where the structures are to be used to contain only relatively small internal pressures, the thickness of the material forming the shell may be insufficient to support the shells even with the assistance of the circular diaphragm. In such cases each individual spherical segment may be very simply supported by a central column and radial girder-like members such as are commonly used in large containers.

The patent to Joy relates to arched roof structures suitable for storage purposes, hangars, etc. It provides an arched roof structure having curved sheets of relatively thin material, such as galvanized iron or fibro-cement, which are utilized to provide a structure wherein the arched roof is combined with props in such manner that large areas may be covered with great economy of material.

The intermediate section in the patent to Joy was thus described in the specification of his application:

Each arch of a short span structure is a segment of a circle subtending an angle varying from 45° to 85°, and each arch of a larger span structure subtends an angle of from 60° to 90°. Each arch may comprise one or more sheets and the said sheets may be corrugated.

As noted by the Board, and as quoted from the brief of the Solicitor, Figures 6, 7, and 11 of the drawings accompanying the specification of Joy disclose—

foundation means, segmental arch shaped cover means and two intermediate support means. The side sections are 90° of arc in extent and the intermediate portion can be from 45° to 85° in extent.

The Examiner rejected both of the appealed claims on the disclosure of Joy in view of Jackson et al. and Goodrich. He held, and the Board was in complete agreement with his reasons for rejection, that no invention would be involved in forming the structures of Joy with side portions 120° in length, as taught by Jackson et al., and substituting a frame work of ribs, such as shown by Goodrich, for the spaced braces. More specifically, the final position of the Patent Office is correctly stated in the brief for appellant:

Claims 26 and 28 have been rejected as unpatentable over Joy in view of Jackson et al. The Patent Office admits that claim 26 defines over Joy by the recitations that the first set of ribs are in the form of an arc of a circle of 120° in length and that the second set of ribs are in the form of an arc of a circle of 60° in length, but takes the position that these limitations are not patentable since Joy discloses, in Figures 6, 7 and 11, the use of end sections of 90° in length and an intermediate section which can be from 45° to 85° in length. The Patent Office also admits that in the Joy construction the height of the highest point of the intermediate section above the foundation is not equal to the radius of curvature of the rib element, but holds that this specific structure is suggested in Jackson et al. wherein the highest point of the intermediate section is at the same level as the highest point of the end sections. The Patent Office then further admits that the limitation that the straight parallel lines passing through the centers of the arcs of the sets of ribs lie in a common plane with the lower ends of the first set of ribs is not shown in Joy, but holds that this difference does not present a patentable advance over Joy alone, or in view of Jackson et al.

Appellant notes many exceptions to the concurring decisions of the tribunals of the Patent Office, which frankly admitted that there are structural differences between the applicant's structure and those of the cited references, singly and collectively, but held that no patentable invention was involved in making the changes upon which appellant relies.

[1] Mere novelty does not however connote patentability, particularly in the building art wherein it is regarded as routine practice in designing new structures to adapt and modify basic architectural plans to provide for better, more economical, and more desirable housing. *In re Rossman*, 39 CCPA (Patents) 840, 194 F.2d 711, 93 USPQ 19. We have that situation defined by appellant's rejected claims, and it is correctly noted in the Solicitor's brief:

Under the new law, which is now controlling in further proceedings in applications pending on January 1, 1953, a patent may not be obtained though the invention is not identically disclosed or described in the prior art, unless it involves something unobvious. 35 U. S. C. 103. Refusal of a patent is proper, under the new law, as it was under the old, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the alleged invention was made to a person having ordinary skill in the art of which said subject matter pertains.

[2] In view of the art of record and the exposition thereof as defined by the concurring decisions of the Patent Office, we think that a person skilled in the art would have been able, without exercise of the inventive faculty, to have effected the improved result for which appellant seeks to obtain a patent.

The decision of the Board of Appeals is accordingly affirmed.

AFFIRMED.

JACKSON, *J.*, retired, was recalled to participate in this case in place of GARRETT, *C. J.*

U. S. Court of Customs and Patent Appeals

IN RE ABRAMS ET AL.

No. 5970. Decided June 17, 1953

[205 F.2d 202; 98 USPQ 215]

1. DESIGNS—INVENTION—USE OF SHARPER CORNERS AND BEADING DEEMED OBVIOUS.

Held that the impression upon the fundamental configuration of the reference article of "the modification of sharper corners and beading around the top, bottom and on the sides" constitutes the use of expedients obvious to a designer skilled in the art.

2. PATENTABILITY—PARTICULAR SUBJECT MATTER—DESIGN FOR PERSONAL CARRYING WEARING APPAREL BRUSH.

A certain design for a personal carrying wearing apparel brush *Held* non-inventive over the prior art.

APPEAL from Patent Office. Serial No. D–5,245.

AFFIRMED.

Louis Barnett for appellants.

E. L. Reynolds for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner rejecting the single claim in appellants' application for a patent for a design for a Personal Carrying Wearing Apparel Brush. The claim was rejected on the ground of lack of invention over the prior art.

The appealed claim reads as follows:

The ornamental design for a personal carrying wearing apparel brush or the like article as shown.

The references relied on are: Ingwersen et al., 1,927,093, September 19, 1933; Amstutz, D–154,454, July 12, 1949.

Appellant's application discloses a wearing apparel brush of the extendable-retractable type. When in closed position it has a rectangular shaped casing formed with sharp appearing corners broken by an outstanding bead on the lower rim of the bottom open side and a single continuous bead extending across the flat top side and centrally along the edge sides, the ends of the bead on the edge sides merging with the rim bead. The front side has a slot through which is extended a flathead actuating screw facilitating the withdrawal or positioning for use of the brush in and out of the case.

The Ingwersen et al. reference is a mechanical patent covering a retractable brush and a protective case. This reference discloses a retractable brush in a rectangular shaped case which has a general overall appearance very similar to the case embraced in the subject design. It does not have the outstanding bead on the rim of the bottom side of the casing or the single bead extending along the edge sides and the flat top side which merges with the rim bead. It also has rounded corners.

Amstutz, cited by the Examiner as cumulative art, was not given any consideration by the Board and will not be given consideration by us.

It was the opinion of the Board that the general overall appearance of appellants' brush and of the Ingwersen et al. brush is substantially the same; that the only feature in appellants' brush that tends to differentiate it from the Ingwersen et al. brush is the bead about the lower rim of the bottom open side and the bead extending along the edge sides and flat top side which merges with the rim bead; that the beading while tending to give appellants' brush a more pleasing appearance does not influence the overall appearance of the brush to the extent that it can be said that it establishes such novelty and originality in its configuration that the average observer would accept it as an appearance wholly different from the Ingwersen et al. brush; that the average observer would merely view it as a modification of the Ingwersen et al. brush and that appellants have merely impressed upon the fundamental configuration of the prior art surface beads which per se are obvious expedients to a routine designer and which in nowise changes the general overall appearance of the configuration.

The Board also noted the affidavit of commercial success but stated that since a question of doubt did not arise in reaching its conclusion on the question of patentability of the appealed claim that it deemed it unnecessary to give the affidavit any further consideration.

Appellants contend that their design differs in overall appearance from the prior art and that it is a novel combination of harmoniously arranged elements attractive in appearance and having aesthetic appeal.

In considering design patents the courts have almost universally applied the rule that it is not enough if a particular design be new, original, and ornamental, but there must be present the exercise of the inventive faculty as well. *In re Faustmann*, 33 CCPA (Patents) 1065, 155 F.2d 388, 69 USPQ 541, and cases cited therein.

While patentable designs may result from regrouping familiar forms and decorations, the substitution of a slightly different form already in use in articles of the class to which the design is applied, does not merit a monopoly. *In re Eugene L. Johnson, Jr.*, 36 CCPA (Patents) 1175, 175 F.2d 791, 82 USPQ 199.

The degree of difference required to establish novelty occurs when the average observer takes the new design for a different, and not a modified already-existing, design. Shoemaker, Patents for Designs, p. 76.

A design must be judged from its appearance as a whole and it must be evident that the exercise of the inventive faculty was present in the production of a design before a patent will be granted covering the design. See *In re Fred C. Walter*, 17 CCPA (Patents) 982, 39 F.2d 724, 5 USPQ 302; *In re Walter F. Staun*, 19 CCPA (Patents) 713, 53 F.2d 545, 11 USPQ 80; *In re Franck*, 30 CCPA (Patents) 1235, 136 F.2d 711, 58 USPQ 479, and authorities therein cited and reviewed.

The intent of the Congress in the enactment of the design statute was stated in the decision of this court in the Walter case, supra, to the following effect, at page 983:

It should be remembered that the purpose of the law authorizing the grant of patents for designs was to give encouragement to the decorative arts, but it was not the purpose to grant a monopoly over a particular design, even if it presents a new and distinctive appearance, if its creation did not involve invention. The decorative art would be retarded instead of advanced if one without the exercise of the inventive faculty, upon seeing a new article come into common use, could draft designs covering all attractive forms of the article and secure patents for them, thus preventing the use of the article by the public, except in its most unattractive form, unless tribute be paid to him who had secured the patents.

The record contains evidence of commercial success, but such evidence is of value only where the question of patentability is otherwise doubtful. If there was any reasonable doubt as to the patentability of appellants' claim, commercial success of appellants' design would be of material consequence. As we have no such doubt, commercial success should not be given such consideration. See *In re Day*, 28 CCPA (Patents) 1002, 118 F.2d 352, 49 USPQ 72; *In re Thayer*, 34 CCPA (Patents) 893, 159 F.2d 742, 72 USPQ 486.

[1] Appellants' design when looked at alone is ornamental and pleasing to the eye but when it is compared to the prior reference it is evident that the production of the design did not require the exercise of the inventive faculty. Appellants have merely impressed upon the fundamental configuration of Ingwersen et al., the modification of sharper corners and beading around the top, bottom and on the sides which we consider as obvious expedients to a designer skilled in the art. [2] We agree with the Board that invention was not required in the production of the appealed design and the decision of the Board is hereby affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,140,267. (See 2,495,339.) 2,190,078. (See 2,495,339.)

2,237,567, 2,328,219, 2,454,515. E. H. Land, Light polarizer and process of manufacturing same: Re. 23,297, Hyman & West, Sheetlike light-polarizing complex of iodine and a polyvinyl compound, etc., filed July 24, 1953, D. C. Del., Doc. 1555, *Multiplate Glass Corp*, v. *Polaroid Corp.*

2,328,219. (See 2,237,567.)

2,373,691, L. H. Kessler, Stone crushing apparatus; 2,486,421, same, Double impeller impact breaker, C. C. A., 8th Cir. (St. Louis), Doc. 14779, *Iowa Mfg. Co. of Cedar Rapids, Iowa* v. *Pettibone Milliken Corp. et al.* Judgment of District Court vacated, "case remanded to entry of judgment by consent," Aug. 11, 1953.

2,454,515. (See 2,237,567.)

2,459,327, 2,468,498, Re. 23,532 (of 2,477,067), Kyle & Schindler, Automatic reclosing circuit breaker; 2,506,744, Schindler & Froland, Retarded circuit breaker after reclosing; 2,560,529, A. Van Ryan et al., Automatic reclosing circuit breaker, suit for Declaratory Judgment filed Aug. 24, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15729, *I-T-E Circuit Breaker Co.* v. *McGraw Electric Co.*

2,468,498. (See 2,459,327.) 2,477,067. (See 2,459,327.)

2,486,421. (See 2,373,691.)

2,495,339, J. Markowitz, Supporting structure for electrical units; 2,140,267, same, Radio tube oscillator; 2,190,078, same, Low frequency oscillator, D. C., N. D. Ill. (Chicago), Doc. 52c282, *Allen Organ Co., Inc.* v. *Haygren Organ Co.* By stipulation, suit and counterclaim dismissed with prejudice Aug. 21, 1953.

2,506,744. (See 2,459,327.) 2,560,529. (See 2,459,327.)

2,624,092, C. Duerr, End clasp for a bracelet, filed Aug. 31, 1953, D. C. R. I. (Providence), Doc. 1605, *Jacoby-Bender, Inc.* v. *Flex-Let Corp.*

Re. 23,297. (See 2,237,567.)

Re. 23,532. (See 2,459,327.)

Des. 151,732 (*a*), Des. 151,733, W. G. Bley, Lady's stocking, D. C., E. D. Pa. (Philadelphia), Doc. 14918, *Sanson Hosiery Mills, Inc., et al.* v. *Mar-Clay Hosiery Mills.* Consent judgment favor plaintiffs and granting injunction Aug. 12, 1953.

Des. 151,732 (*b*), Des. 151,733, Des. 165,129, W. G. Bley, Lady's stocking, D. C., E. D. Pa. (Philadelphia), Doc. 15265, *Sanson Hosiery Mills, Inc., et al.* v. *Mark Hosiery Mills.* Consent judgment favor plaintiffs and granting injunction Aug. 12, 1953.

Des. 151,733. (See Des. 151,732 (*a*) and (*b*).)

Des. 165,129. (See Des. 151,732 (*b*).)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 227,045, T. M. 227,046, Moores & Ross, Inc., Diet for infants; D. C., W. D. Wash. (Seattle), Doc. 2848, *M. & R. Dietetic Laboratories, Inc.* v. *The Stark Co., Inc., et al.* Trade-mark "Similac" held valid and infringed; injunction to issue Aug. 10, 1953.

T. M. 227,046. (See T. M. 227,045.)

T. M. 284,377, Electrolux, Inc., Electrically-operated portable vacuum cleaners and attachments therefor, filed Aug. 10, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15780–T, *Electrolux Corp.* v. *Mercury Vacuum Cleaner Stores et al.*

T. M. 285,003, Abbott Laboratories, Hypnotic sedative anesthetic compound, D. C., S. D. N. Y., Doc. 85/126, *Abbott Laboratories* v. *Cardinal Pharmacy.* Consent judgment for injunction (notice Aug. 12, 1953). Doc. 85/127, *Abbott Laboratories* v. *Berk-Stevens, Inc., et al.* Decree as above (notice Aug. 24, 1953).

T. M. 306,281, B. Altman & Co., Dresses, coats, and suits; T. M. 516,880, T. M. 542,116, same, Articles of wearing apparel for women and girls; T. M. 558,014, same, Ladies' handbags, filed Aug. 14, 1953, D. C. N. J. (Newark), Doc. 656/53, *B. Altman & Co.* v. *J. Reif et al.*

T. M. 366,874. (See T. M. 370,871.)

T. M. 369,430. (See T. M. 370,871.)

T. M. 370,871, T. M. 369,430, Sealtest, Inc., Milk, buttermilk, etc.; T. M. 366,874, same, Transparent composition wrapper; T. M. 557,254, National Dairy Products Corp., Milk, eggnog, malted milk, filed Aug. 17, 1953, D. C. Del., Doc. 1559, *National Dairy Products Corp.* v. *Seal-Tested Coatings, Inc.*

T. M. 379,634, International Latex Corp., Girdles, filed Aug. 7, 1953, D. C., S. D. N. Y., Doc. 87/111, *International Latex Corp.* v. *Flexers, Inc., et al.*

T. M. 387,815, American Plush & Velvet Pressboard Co., Inc., Portable electrically heated steam generator and pressing iron, D. C., S. D. N. Y., Doc. 65/341, *Steamaster Co., Inc.* v. *U. S. Hoffman Machinery Corp., et al.* Stipulation and order dismissing complaint and counterclaim with prejudice Aug. 13, 1953.

T. M. 390,794, S. Augstein & Co., Men's, women's and children's sweaters, bathing suits, etc., filed Aug. 3, 1953, D. C., S. D. N. Y., Doc. 87/53, *S. Augstein & Co., Inc.* v. *Smith-Altschuler Co., Inc., et al.*

T. M. 500,299, The Lovable Brassiere, Inc., Brassières, filed Aug. 20, 1953, D. C., S. D. N. Y., Doc. 87/257, *The Lovable Brassiere Co.* v. *S. J. Kreiss, Inc.*

T. M. 516,880. (See T. M. 306,281.)

T. M. 542,116. (See T. M. 306,281.)

T. M. 551,474, Looz, Inc., Saline cathartic, D. C., S. D. Calif. (Los Angeles), Doc. 14617–T, *Looz, Inc.* v. *Pounds Off Products et al.* Trade-mark held valid and infringed, injunction (notice Aug. 11, 1953).

T. M. 557,254. (See T. M. 370,871.)

T. M. 558,014. (See T. M. 306,281.)

NOTICES

Veterans' Patents Extended

Public Law 598 of June 30, 1950

Public Law 437 of July 1, 1952

June 30, 1950 to November 1, 1953

Alexander, John R., Pat. No. 2,119,192, issued May 31, 1938; extended for 7 years and 173 days.
Alexander, John R., Pat. No. 2,244,040, issued June 3, 1941; extended for 7 years and 173 days.
Anderson, Miles, Pat. No. 2,233,119, issued Feb. 25, 1941; extended for 6 years and 106 days.
Arthur, Charles J., Pat. No. 2,289,859, issued July 14, 1942; extended for 6 years and 88 days.
Atkeson, Florian V., Re. Pat. No. 23,245, issued July 4, 1950; extended for 3 years and 315 days.
Bodie, William P., Pat. No. 2,135,098, issued Nov. 1, 1938; extended for 4 years and 147 days.
Bonner, Ernest N., Pat. No. 2,127,715, issued Aug. 23, 1938; extended for 2 years and 263 days.
Buckman, Henry H., Pat. No. 1,871,877, issued Aug. 16, 1932; extended for 6 years and 214 days.
Buhr, Victor, Pat. No. 1,930,414, issued Oct. 10, 1933; extended for 5 years and 152 days.
Caskey, Floyd G., Pat. No. 1,961,871, issued June 5, 1934; extended for 7 years and 131 days.
Clabeaux, Robert J., Pat. No. 2,142,436, issued Jan. 3, 1939; extended for 6 years and 30 days.
Corwell, John H., Pat. No. 2,016,667, issued Oct. 8, 1935; extended for 5 years and 354 days.
Cox, George Chandler, Pat. No. 2,200,469, issued May 14, 1940; extended for 6 years and 191 days.
Crompton, George, Jr., Pat. No. 1,980,666, issued Nov. 13, 1934; extended for 6 years and 63 days.
Crompton, George, Jr., Pat. No. 2,343,135, issued Feb. 29, 1944; extended for 2 years and 254 days.
Davidson, Walter S., Pat. No. 1,991,597, issued Feb. 19, 1935; extended for 2 years and 287 days.
De Mark, Nicholas, Pat. No. 2,039,065, issued Apr. 28, 1936; extended for 5 years and 360 days.
Dvorak, August, et al., Pat. No. 2,040,248, issued May 12, 1936; extended for 6 years and 93 days.
Eason, Sidney Lanier, Pat. No. 2,003,503, issued June 4, 1935; extended for 6 years and 57 days.
Eason, Sidney Lanier, Pat. No. 2,215,349, issued Sept. 17, 1940; extended for 6 years and 57 days.
Ettinger, Ralph, Pat. No. 1,983,657, issued Oct. 18, 1934; extended for 6 years and 199 days.
Flude, John William, Pat. No. 2,283,200, issued May 19, 1942; extended for 4 years and 243 days.
Flude, John W., Pat. No. 2,324,378, issued July 13, 1943; extended for 4 years and 143 days.
Garth, Ernest D. G., Pat. No. 2,258,605, issued Oct. 14, 1941; extended for 7 years and 173 days.
Jones, Clifford C., Pat. No. 2,019,819, issued Nov. 5, 1935; extended for 6 years and 91 days.
Jones, Clifford C., Pat. No. 2,078,854, issued Apr. 27, 1937; extended for 6 years and 90 days.
Keyes, Harmon E., Re. Pat. No. 21,215, issued Sept. 26, 1939; extended for 6 years and 83 days.
Keyes, Harmon E., Pat. No. 1,823,831, issued Sept. 15, 1931; extended for 6 years and 83 days.
Keyes, Harmon E., Pat. No. 1,928,728, issued Oct. 3, 1933; extended for 6 years and 82 days.
Keyes, Harmon E., Pat. No. 1,952,675, issued Mar. 27, 1934; extended for 6 years and 82 days.
Keyes, Harmon E., Pat. No. 1,971,416, issued Aug. 28, 1934; extended for 6 years and 82 days.
Keyes, Harmon E., Pat. No. 2,009,667, issued July 30, 1935; extended for 6 years and 83 days.
Keyes, Harmon E., Pat. No. 2,036,578, issued Apr. 7, 1936; extended for 6 years and 83 days.
Keyes, Harmon E., Pat. No. 2,070,133, issued Feb. 9, 1937; extended for 6 years and 82 days.
Keyes, Harmon E., Pat. No. 2,070,134, issued Feb. 9, 1937; extended for 6 years and 83 days.
Keyes, Harmon E., Pat. No. 2,130,278, issued Sept. 13, 1938; extended for 6 years and 82 days.
Keyes, Harmon E., Pat. No. 2,304,178, issued Dec. 8, 1942; extended for 4 years and 81 days.
Keyes, Harmon E., Pat. No. 2,332,647, issued Oct. 26, 1943; extended for 2 years and 168 days.
Klipsch, Paul W., Pat. No. 2,310,243, issued Feb. 9, 1943; extended for 6 years and 120 days.
Kottes, George Leonidas, Pat. No. 2,116,028, issued May 3, 1938; extended for 7 years and 173 days.
Kottes, George Leonidas, Pat. No. 2,296,999, issued Sept. 29, 1942; extended for 5 years and 311 days.
Lohman, Ralph W., Pat. No. 1,739,513, issued Dec. 17, 1929; extended for 5 years and 298 days.
Miller, Thomas G., Pat. No. 2,158,078, issued May 16, 1939; extended for 7 years and 174 days.
Miller, Thomas G., Pat. No. 2,158,079, issued May 16, 1939; extended for 7 years and 174 days.
Miller, Thomas G., Pat. No. 2,275,454, issued Mar. 10, 1942, extended for 6 years and 352 days.
Moore, Howard Nelson, Pat. No. 2,270,686, issued Jan. 20, 1942; extended for 7 years and 17 days.
Morehouse, Terry Bryan, Pat. No. 2,042,353, issued May 26, 1936; extended for 5 years and 38 days.
Pearl, Harmon H., Pat. No. 2,045,248, issued June 23, 1936; extended for 5 years and 86 days.
Reynlers, James A., Pat. No. 2,185,711, issued Jan. 2, 1940; extended for 2 years and 328 days.
Reynlers, James A., Pat. No. 2,219,564, issued Oct. 29, 1940; extended for 2 years and 328 days.
Reynlers, James A., Pat. No. 2,244,082, issued June 3, 1941; extended for 2 years and 328 days.
Reynlers, James A., Pat. No. 2,248,199, issued July 8, 1941; extended for 2 years and 328 days.
Reynlers, James A., Pat. No. 2,335,697, issued Nov. 30, 1943; extended for 2 years and 328 days.
Reynlers, James A., Pat. No. 2,369,980, issued Feb. 20, 1945; extended for 292 days.
Reynlers, James A., Pat. No. 2,369,981, issued Feb. 20, 1945; extended for 292 days.
Richards, Arthur J., Pat. No. 2,265,613, issued Dec. 9, 1941; extended for 6 years and 210 days.
Rowley, Charles A., Des. Pat. No. 109,647, issued May 10, 1938; extended for 5 years and 216 days.
Rowley, Charles A., Pat. No. 1,845,522, issued Feb. 16, 1932; extended for 5 years and 216 days.
Rowley, Charles A., Pat. No. 1,915,869, issued June 27, 1933; extended for 5 years and 216 days.
Rowley, Charles A., Pat. No. 2,023,451, issued Dec. 10, 1935; extended for 5 years and 216 days.
Salembier, Maurice Albert, Jr., Pat. No. 2,123,971, issued July 19, 1938; extended for 6 years and 32 days.
Sands, William Hupp, Pat. No. 2,129,627, issued Sept. 6, 1938; extended for 6 years and 30 days.
Satterthwait, Charles S., Pat. No. 1,969,279, issued Aug. 7, 1934; extended for 6 years and 234 days.
Schuppner, Harry R., Pat. No. 2,197,160, issued Apr. 16, 1940; extended for 7 years and 173 days.
Shively, John J., Pat. No. 2,071,903, issued Feb. 23, 1937; extended for 5 years and 38 days.
Shively, John J., Pat. No. 2,115,431, issued Apr. 26, 1938; extended for 5 years and 38 days.
Silverman, Sebet, Pat. No. 2,065,406, issued Dec. 22, 1936; extended for 3 years and 320 days.
Stemme, Norman J., Pat. No. 2,288,044, issued June 30, 1942; extended for 7 years and 79 days.
Thomas, Raymond G., Pat. No. 1,724,785, issued Aug. 13, 1929; extended for 7 years and 147 days.
Thompson, Milton T., Pat. No. 1,971,057, issued Aug. 21, 1934; extended for 11 months and 25 days.
Truesdall, John S., Pat. No. 2,115,969, issued May 3, 1939; extended for 5 years and 55 days.
Vaughn, Sidney P., Pat. No. 2,114,891, issued Apr. 19, 1938; extended for 7 years and 173 days.
Vaughn, Sidney P., Pat. No. 2,114,892, issued Apr. 19, 1938; extended for 7 years and 173 days.
Vaughn, Sidney P., Pat. No. 2,150,196, issued Mar. 14, 1939; extended for 7 years and 174 days.
Vaughn, Sidney P., Pat. No. 2,153,601, issued Apr. 11, 1939; extended for 7 years and 174 days.
Vaughn, Sidney P., Pat. No. 2,163,638, issued June 27, 1939; extended for 7 years and 173 days.
Vaughn, Sidney P., Pat. No. 2,165,319, issued July 11, 1939; extended for 7 years and 174 days.
Vaughn, Sidney P., Pat. No. 2,186,050, issued Jan. 9, 1940; extended for 7 years and 174 days.
Vaughn, Sidney P., Pat. No. 2,210,967, issued Aug. 13, 1940; extended for 7 years and 173 days.
Vaughn, Sidney P., Pat. No. 2,229,147, issued Jan. 21, 1941; extended for 7 years and 173 days.
Vaughn, Sidney P., Pat. No. 2,255,091, issued Sept. 9, 1941; extended for 7 years and 173 days.
Vaughn, Sidney P., Pat. No. 2,298,3.0, issued Oct. 13, 1942; extended for 5 years and 283 days.
Vaughn, Sidney P., Pat. No. 2,313,787, issued Mar. 16, 1943; extended for 4 years and 341 days.
Vaughn, Sidney P., Pat. No. 2,358,673, issued Sept. 19, 1944; extended for 1 year and 331 days.
Walker, Brooks, Re. Pat. No. 18,904, issued July 25, 1933; extended for 6 years and 214 days.
Walker, Brooks, Re. Pat. No. 20,707, issued Apr. 26, 1938; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 1,742,566, issued Jan. 7, 1930; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 1,853,326, issued Apr. 12, 1932; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 1,884,932, issued Oct. 25, 1932; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 1,884,933, issued Oct. 25, 1932; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 1,948,951, issued Feb. 27, 1934; extended for 6 years and 214 days.

Walker, Brooks, Pat. No. 1,990,150, issued Feb. 5, 1935; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,002,724, issued May 28, 1935; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,005,173, issued June 18, 1935; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,016,619, issued Oct. 8, 1935; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,075,877, issued Apr. 6, 1937; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,077,135, issued Apr. 13, 1937; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,131,306, issued Sept. 27, 1938; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,136,570, issued Nov. 15, 1938; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,139,341, issued Dec. 6, 1938; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,158,736, issued May 16, 1939; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,180,024, issued Nov. 14, 1939; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,276,896, issued Mar. 17, 1942; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,276,897, issued Mar. 17, 1942; extended for 6 years and 214 days.
Walker Brooks, Pat. No. 2,276,898, issued Mar. 17, 1942; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,301,485, issued Nov. 10, 1942; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,311,716, issued Feb. 23, 1943; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,337,074, issued Dec. 21, 1943; extended for 6 years and 214 days.
Walker, Brooks, Pat. No. 2,355,931, issued Aug. 15, 1944; extended for 6 years and 214 days.
Weisbender, Eugene R., Pat. No. 2,288,970, issued July 7, 1942; extended for 5 years and 189 days.
White, Albert, Pat. No. 1,958,556, issued May 15, 1934; extended for 4 years and 25 days.
Womack, David R., Pat. No. 2,319,837, issued May 25, 1943; extended for 6 years and 169 days.
Zank, Donald G., Pat. No. 2,284,352, issued May 26, 1942; extended for 4 years and 47 days.

Patent Office Fees

On November 5, 1953, the Director of the Bureau of the Budget issued Circular No. A-25 to the Heads of Executive Departments and Establishments, on the subject of "Fees for licensing, registration, and related activities." This order relates to many types of activities performed by various government departments and specifically refers to the granting of patents and the registration of trade-marks as being within its scope.

The Circular states that it shall be the policy of Federal agencies engaged in the activities included to provide a system of fair and equitable fees which, taking account of the value to the recipient and the public policy or interest served, shall recover, to the full extent possible, the aggregate cost incurred in the conduct of those activities.

Agency heads are required to make cost studies and surveys and to submit proposed schedules of fees requiring statutory enactment by January 1, 1954.

Agency heads are also required to provide an opportunity for affected parties to present comments and suggestions as to the level and form of proposed fees. Persons and organizations interested in submitting comments and suggestions on Patent Office fees are requested to submit them to the Commissioner of Patents, Washington 25, D. C., by December 15, 1953.

ARTHUR W. CROCKER,
Nov. 10, 1953. *Acting Commissioner of Patents.*

(Note. A large amount of data relating to Patent Office fees and expenses will be found in the October 1953 number of the Journal of the Patent Office Society.)

Adjudicated Patents

(D. C. N. J.) Bener Patent No. 2,121,005, for a process of producing textiles with calender finish permanent to washing and product thereof. Claims 2 and 3, *Held* invalid. *Joseph Bancroft & Sons Company* v. *Brewster Finishing Co., Inc.*, 113 F. Supp. 714; 98 USPQ 187.

(D. C. Mich.) Touchett Patent No. 2,427,581, for a paint applicator, *Held* invalid. *E-Z Paintr Corporation et al.* v. *Thomas*, 113 F. Supp. 827; 98 USPQ 248.

(D. C. Mich.) Touchett Patent No. 2,444,584, for a sloping bottom tray and support structure, *Held* invalid. *Id.*

(D. C. Mass.) Tupper Design Patent No. 144,528, for a design for combined cigarette and match case, *Held* invalid. *Tupper Corporation* v. *Tilton & Cook Co.*, 113 F. Supp. 805; 98 USPQ 213.

Disclaimer

2,584,264.—*William S. Foulks*, Philadelphia, Pa. PROCESS FOR CURING COATINGS OF POLYSULFIDE POLYMERS. Patent dated Feb. 5, 1952. Disclaimer filed Oct. 26, 1953, by the assignee, *Stoner-Mudge, Inc.*

Hereby enters this disclaimer to all the claims of said patent.

Erratum

All references to Patent No. 2,651,481 to Bernard A. Swanson, for Pneumatic Hammer appearing in the OFFICIAL GAZETTE of November 10, 1953, should be deleted as the application was withdrawn from issue and the patent was not issued.

Classification Order No. 154

The following transfers are hereby directed to take effect on Monday, November 9, 1953:

From Division 48 to Division 53:
Class 40, Card, Picture and Sign Exhibiting.
From Division 42 to Division 69:
Class 174, Electricity, Conductors and Insulators.
From Division 31 to Division 38:
Class 260, Chemistry, Carbon Compounds, Subs. 585.5 through 647.

M. C. ROSA,
Nov. 3, 1953. *Executive Examiner.*

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

ABC Conch Co., Pinconning, Mich. Transportable trailer apparatus. Serial No. 639,299, Nov. 24. Class 19.
A. G. Fuer Optik und Feinmechanik, Vaduz, Liechtenstein. Cameras, camera lenses, exposure meters, and range finders. Serial No. 646,592, Nov. 24. Class 26.
Acme-Evans Company, Inc., Indianapolis, Ind. Wheat flour. Serial No. 633,138, Nov. 24. Class 46.
Aerosol Products Corporation, Chicago, Ill. Combination dye and cleaner. Serial No. 633,247, Nov. 24. Class 52.
Affiliated Gas Equipment, Inc., Cleveland, Ohio, and Monrovia, Calif. Gas water heaters and forced air furnaces. Serial No. 647,134, Nov. 24. Class 34.
Agri-Indus Mfg. Co., Columbus, Ohio. Ground corn cob meal for use as a cleaning and polishing preparation. Serial No. 620,131, Nov. 24. Class 4.
Alabama Flour Mills: *See*—
Nebraska Consolidated Mills Company.
Allen's Research Laboratory: *See*—
Borun Bros.
Allied Chemical & Dye Corporation, New York, N. Y. Organic chemical intermediates. Serial No. 646,101, Nov. 24. Class 6.
Amana Refrigeration, Inc., Amana, Iowa. Refrigerators, freezers, and parts thereof. Serial No. 646,253, Nov. 24. Class 31.
American Yachtmen's Association, Washington, D. C. Services to yachtsmen. Serial No. 634,567, Nov. 24. Class 100.
Amm-O-Gum, Inc., Chicago, Ill. Chewing gum. Serial No. 625,324, Nov. 24. Class 46.
Amperex Electronic Corporation, Hicksville, N. Y. X-ray tubes. Serial No. 641,594, Nov. 24. Class 21.
Anne Marlowe's Candy Kitchen, Inc., Chicago, Ill. Pecan chocolate candy. Serial No. 625,681, Nov. 24. Class 46.
Ansbacher-Siegle Corporation, Rosebank, N. Y. Ingredients for dyestuffs and dyestuffs both dry and in solution. Serial Nos. 647,138–9, Nov. 24. Class 6.
Athens Flooring Company, The, Athens, Ohio. Window and removable sash. Serial No. 637,031, Nov. 24. Class 12.
Atlantic Lobster House, Inc., Charlestown, Mass. Packaged frozen clam chowder, lobster bisque, lobster Newburg, etc. Serial No. 633,749, Nov. 24. Class 46.
Automatic Manufacturing Corporation, Newark, N. J. Coil and condenser assemblies. Serial No. 630,750, Nov. 24. Class 21.
B & W Food Company, Birmingham, Ala. Peanut butter and apple jelly combined. Serial No. 613,358, Nov. 24. Class 46.
Babcock Company, The, Kasota, Minn. Quarried building material. Serial No. 636,763, Nov. 24. Class 12.
Baker Clothes, Inc., Philadelphia, Pa. Men's clothing. Serial No. 646,725, Nov. 24. Class 39.
Barbet Mills, Inc., Lexington, N. C. Tubular cotton jersey piece goods. Serial No. 639,260, Nov. 24. Class 42.
Barlow-Manley Laboratories, Incorporated, Cedar Rapids, Iowa. Chemical compound. Serial No. 647,984, Nov. 24. Class 18.
Battistoni, Romeo, doing business under the name and title Italian and French Wine Co., Buffalo, N. Y. Still wines. Serial No. 571,837, Nov. 24. Class 47.
Beam-O-Lite: *See*—
Fretwell, Alonzo A.
Bendel, Henri, Inc., New York, N. Y. Liquid air freshener. Serial No. 646,980, Nov. 24. Class 6.
Berry Asphalt Company, Chicago, Ill., and Magnolia, Ark. Chemically treated asphalt. Serial No. 627,619, Nov. 24. Class 12.
Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y. Woven pile rugs and carpets. Serial No. 622,002, Nov. 24. Class 42.
Bigelow-Sanford Carpet Company, Inc., assignee: *See*—
Bigelow-Sanford Carpet Co., Inc.
Bill Products, Inc., San Francisco, Calif. Hand operated retractable tongs. Serial No. 645,099, Nov. 24. Class 23.
Birmingham Paper Company, Birmingham, Ala. Boxes, cardboard egg cartons, merchandise envelopes, etc. Serial No. 622,005, Nov. 24. Class 2.
Blassenham, William L., Richmond, Va. Travel cage for birds. Serial No. 647,062, Nov. 24. Class 3.
Blue Gem Manufacturing Company, Greensboro, N. C. Dungarees. Serial No. 644,960, Nov. 24. Class 39.
Borden Company, The, New York, N. Y. Natural cheddar cheese and cream cheese. Serial No. 621,129, Nov. 24. Class 46.
Borun Bros., doing business under the trade name and style of Noroboh Laboratory, Los Angeles, Calif. Food supplement consisting principally of vitamins and minerals. Serial No. 647,588, Nov. 24. Class 18.
Borun Bros., doing business under the trade name and style of Allen's Research Laboratory, Los Angeles, Calif. Vitamin B complex. Serial No. 647,589, Nov. 24. Class 18.
Borun Bros., doing business under the trade name and style of Salahist Laboratories, Los Angeles, Calif. Antihistamine cough syrup and anti-histamine capsules. Serial No. 647,590, Nov. 24. Class 18.
Botany Mills, Inc., Passaic, N. J. Neckties. Serial No. 644,825, Nov. 24. Class 39.
Broadstreet's, Inc., New York, N. Y. Men's, boys', and children's suits; etc.; women's underwear; and women's and girls' suits. Serial No. 644,492, Nov. 24. Class 39.
Bronson Products, Chicago, Ill. Devices for insertion into the collars of shirts. Serial No. 634,136, Nov. 24. Class 40.
Brooks-Miller Co., Chicago, Ill. Dungarees. Serial No. 636,627, Nov. 24. Class 39.
Brown-Miller Company, New Orleans, La. Sliced dill pickles. Serial No. 631,266, Nov. 24. Class 46.
Brown, R. J., Company, The, St. Louis, Mo. Anti-freeze. Serial No. 640,783, Nov. 24. Class 6.
Bruce, E. L., Company, Memphis, Tenn. Flooring. Serial No. 643,461, Nov. 24. Class 12.
Bruner-Ritter, Inc., New York, N. Y. Metal bracelets. Serial No. 616,276, Nov. 24. Class 28.
Buffington's, Incorporated, Worcester, Mass. Preparation containing analgesic and antipyretic drug. Serial No. 647,905, Nov. 24. Class 18.
Buffington's, Incorporated, Worcester, Mass. Preparation containing a sympathomimetic agent, a sedative, and vitamins. Serial No. 647,906, Nov. 24. Class 18.
Carlon Products Corporation, Cleveland, Ohio. Conduits. Serial No. 633,657, Nov. 24. Class 13.
Carnation Company, Los Angeles, Calif. Dairy products. Serial No. 628,033, Nov. 24. Class 46.
Carnegie, Hattie, Inc., New York, N. Y. Hats. Serial No. 642,801, Nov. 24. Class 39.
Cast Fittings Corporation, Brooklyn, N. Y. Electrical conduit fittings. Serial No. 640,101, Nov. 24. Class 21.
Castilla Products, Inc., New York, N. Y. Mouth wash and soap. Serial No. 643,405, Nov. 24. Class 51.
Century Product Works, Inc., New York, N. Y. Electrically heated deep fat fryers. Serial Nos. 639,210–11, Nov. 24. Class 21.
Charlaine Cosmetics, Inc., Mount Vernon, N. Y. Cleansing cream, cold cream, night cream, etc. Serial No. 643,581, Nov. 24. Class 51.
Cherry-Burrel Corporation, Chicago, Ill. Milk, food, and industrial processing equipment. Serial No. 630,665, Nov. 24. Class 23.
Child Development Company: *See*—
Ferguson, Martin J.
Chuc-Wagun System Incorporated, assignee: *See*—
Coleman, Melvin E.
Cluett, Peabody & Co. Inc., Troy, N. Y. Men's outer shirts and collars, handkerchiefs, and neckties. Serial No. 643,295, Nov. 24. Class 39.
Coleman, Melvin E., assignor to Chuc-Wagun System Incorporated, Waco, Tex. Sandwiches. Serial Nos. 595,826–7, Nov. 24. Class 46.
Container Corporation of America, Chicago, Ill. Collapsible paperboard cans. Serial No. 649,483, Nov. 24. Class 2.
Corey Candies, Inc., Toledo, Ohio. Candies. Serial No. 619,010, Nov. 24. Class 46.
Countess Mara, Inc., New York, N. Y. Men's clothing. Serial No. 559,606, Nov. 24. Class 39.
Crocker-McElwain Company, Holyoke, Mass. Writing paper. Serial No. 631,050, Nov. 24. Class 37.
Crossett Chemical Company, Crossett, Ark. Emulsifier consisting of dried soap used as additive in drilling muds. Serial No. 640,106, Nov. 24. Class 6.
Crown Coffee Co.: *See*—
Richheimer, William.
Cudahy Brothers Co., Cudahy, Wis. Shortening. Serial No. 633,041, Nov. 24. Class 46.
Culbertson, George K., doing business under the name and style of George K. Culbertson Company, Minneapolis, Minn. Electric phonograph record players and sound recorders. Serial No. 624,265, Nov. 24. Class 21.
Culbertson, George K., Company: *See*—
Culbertson, George K.
Custom Coach Company, The, Baltimore, Md. Aluminum awnings for house trailers. Serial No. 637,572, Nov. 24. Class 19.
Dahlstrom Metallic Door Company, Jamestown, N. Y. Baseboard, moulding and trim. Serial No. 643,298, Nov. 24. Class 12.
Daintee Toys, Inc., Brooklyn, N. Y. Counting frames. Serial No. 639,745, Nov. 24. Class 26.

Dairy Sales Company of Maryland, Inc., Baltimore, Md. Preparation containing hydrogenated vegetable oils, sugar, etc., for use in making whipped toppings for bakery products, etc. Serial No. 638,947, Nov. 24. Class 46.

Davidson Sportswear Co. Inc., New York, N. Y. Ladies' sportswear. Serial No. 511,202, Nov. 24. Class 39.

Dayton Pump & Manufacturing Company, The, Dayton, Ohio. Self-measuring gasoline pumps. Serial No. 635,688, Nov. 24. Class 26.

De Cooperatieve Fabriek van Melkproducten te Bedum, Bedum, Netherlands. Canned, fluid, condensed, and powdered milk, and butter. Serial No. 633,718, Nov. 24. Class 46.

Deeks, Inc., Salt Lake City, Utah. Inflatable rubber decoys. Serial No. 640,028, Nov. 24. Class 22.

Deena Products Co., Chicago, Ill. Lampshades. Serial No. 604,146, Nov. 24. Class 21.

Deerfield Groves Company, Wabasco, Fla. Fresh citrus fruit. Serial No. 649,133, Nov. 24. Class 46.

De Free's: *See*—
Friedlaender, Erwin D.

De Salvo, Jerry, West New York, N. J. Hair reconditioning preparation. Serial No. 642,735, Nov. 24. Class 51.

De Soto Paint & Varnish Co., Memphis, Tenn. Paint enamels. Serial No. 605,641, Nov. 24. Class 16.

Dodge & Olcott, Inc., New York, N. Y. Perfume bases for liquid and powder detergents. Serial No. 646,207, Nov. 24. Class 52.

Doniger, Arthur, Paper Co., Inc., New York, N. Y. Lampshade parchment and paper, sectional paper, paper for cartridges, etc. Serial No. 640,444, Nov. 24. Class 37.

Dorman, N., & Co. Inc. (N. Y.), New York, N. Y. Cheese. Serial No. 645,785, Nov. 24. Class 46.

Doulton & Co., Limited, Burslem and London, England. Earthenware, porcelain, bone china figurines, etc. Serial No. 644,018, Nov. 24. Class 50.

East Texas Photocopy Co., Tyler, Tex. Photocopy service. Serial No. 619,234, Nov. 24. Class 101.

Eastern Machine Products Co.: *See*—
Eastern Venetian Blind Company, The.

Eastern Venetian Blind Company, The, trading as Eastern Machine Products Co., Baltimore, Md. Window cornice hardware. Serial No. 617,655, Nov. 24. Class 13.

Edson, Incorporated, Chicago, Ill. Draperies, card table covers, and piece goods. Serial No. 641,655, Nov. 24. Class 42.

Electronic Computer Corporation, assignor to Underwood Corporation, New York, N. Y. Parts for electronic apparatus. Serial No. 628,621, Nov. 24. Class 21.

Ely & Walker Dry Goods Company, St. Louis, Mo. Men's, women's, children's and infants' hosiery. Serial No. 643,303, Nov. 24. Class 39.

Ercona Camera Corporation, New York, N. Y. Cameras and camera lenses and finders. Serial No. 639,269, Nov. 24. Class 26.

Essex Wire Corporation, Detroit, Mich. Insulated electric wires, and insulated electric cables. Serial No. 647,840, Nov. 24. Class 21.

Eureka Specialty Printing Company, Scranton, Pa. Paper. Serial No. 611,508, Nov. 24. Class 37.

Fabrica de Porcelana da Vista Alegre, Limitada, Lisbon, Portugal. Dinner, table, and kitchen ware. Serial Nos. 631,280–1, Nov. 24. Class 30.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Textile fabrics. Serial No. 635,823, Nov. 24. Class 42.

Fascination Candy Co., Inc., Chicago, Ill. Candies. Serial No. 610,430, Nov. 24. Class 46.

Federal Electric Products Company, Newark, N. J. Electric panel boards. Serial No. 637,919, Nov. 24. Class 21.

Ferguson, Martin J., doing business under the name of Child Development Company, Rye, N. Y. Partially printed child behavior charts. Serial No. 627,429, Nov. 24. Class 37.

Flato, Paul, Sales Corporation, New York, N. Y. Unfilled containers. Serial No. 649,575, Nov. 24. Class 2.

Florasynth Laboratories, Incorporated, New York, N. Y., Chicago, Ill., Dallas, Tex., Detroit, Mich., etc. Non-alcoholic maitless soft drinks. Serial No. 638,643, Nov. 24. Class 45.

Freeman, H., & Son, Inc., Philadelphia, Pa. Men's top coats, overcoats, suits, etc. Serial No. 647,066, Nov. 24. Class 39.

Freeman, H., & Son, Inc., Philadelphia, Pa. Men's outer coats. Serial Nos. 647,608–9, Nov. 24. Class 39.

Fretwell, Alonzo A., doing business as Beam-O-Lite, Spantanburg, S. C. Lamp-like devices. Serial No. 635,959, Nov. 24. Class 21.

Friedlaender, Erwin D., doing business under the firm name and style of De Free's, New York, N. Y. Four-in-hand neckties, bow ties, knitted ties, etc. Serial No. 647,610, Nov. 24. Class 39.

Frielich Brothers Corporation, New York, N. Y. Men's, women's and children's visors per se for use on hats and caps. Serial No. 636,280, Nov. 24. Class 39.

Fuller Brush Company, The, Hartford, Conn. General purpose liquid disinfectant. Serial No. 647,286, Nov. 24. Class 6.

Fuller Brush Company, The, Hartford, Conn. Air deodorant. Serial No. 647,289, Nov. 24. Class 6.

Gallo, E. & J., Winery, Modesto, Calif. Wines. Serial No. 648,385, Nov. 24. Class 47.

Garcia & Vega, Inc., New York, N. Y. Cigars. Serial No. 644,971, Nov. 24. Class 17.

Garcia & Vega, Inc., New York, N. Y. Cigars. Serial No. 644,976, Nov. 24. Class 17.

Gastro-Pulvis Company: *See*—
Hirschman, Albert B.

General Cable Corporation, New York, N. Y. Electrical wires and cables. Serial No. 628,687, Nov. 24. Class 21.

General Container Corporation, Cleveland, Ohio. Foldable shipping boxes. Serial No. 607,326, Nov. 24. Class 2

General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Ready-to-eat cereal. Serial No. 648,661, Nov. 24. Class 46.

General Precision Laboratory Incorporated, Pleasantville, N. Y. Electrical generators of ultrasonic waves, television cameras, television camera control units, etc. Serial No. 635,761, Nov. 24. Class 21.

General Systems Service, Inc., New York, N. Y. Pressure sensitive adhesive tape. Serial No. 646,378, Nov. 24. Class 5.

Gerry Nufoam Shoe Corporation, New York, N. Y. Women's and children's shoes and slippers. Serial No. 606,467, Nov. 24. Class 39.

Gillespie & Sons, Vancouver, British Columbia, Canada. Composition for the removal of all foreign substance from and the preservation of the metal in steam boilers, etc. Serial No. 636,564, Nov. 24. Class 52.

Gillette Company, The, doing business under the name and style of The Toni Company, Boston, Mass. Hand lotion. Serial No. 646,066, Nov. 24. Class 51.

Gi Vi Emme Societa Anonima Giuseppe Visconti di Modrone & C., Milan, Italy. Perfumes, toilet water, lipstick, etc. Serial No. 631,285, Nov. 24. Class 51.

Glass Tint Corporation, doing business under the business name and style of Spray-A-Tint, Chicago, Ill. Liquid glass tint. Serial No. 646,067, Nov. 24. Class 6.

Golde Manufacturing Company, Chicago, Ill. Photographic apparatus and accessories. Serial No. 608,501, Nov. 24. Class 26.

Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 645,041, Nov. 24. Class 42

Goodyear Aircraft Corporation, Wilmington, Del., and Akron, Ohio. Electronic apparatus designed to simulate physical problems or solve mathematical equations, etc. Serial No. 639,326, Nov. 24. Class 26.

Gotham Hosiery Company, Inc., New York, N. Y. Ladies' hosiery. Serial No. 643,678, Nov. 24. Class 39.

Graflex, Inc., Rochester, N. Y. Cameras, magazines for cameras, flashlamp supports, etc. Serial No. 637,439, Nov. 24. Class 26.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Ice cream. Serial No. 632,299, Nov. 24. Class 46.

Great Western Sugar Company, The, Denver, Colo. Stock feed. Serial No. 645,476, Nov. 24. Class 46.

Greater Seattle, Inc., Seattle, Wash. Men's and boys' carnival jackets. Serial No. 608,352, Nov. 24. Class 39.

Gregory, Seth H., doing business under the name and style of Sharwood's, Oak Park, Ill. Sandwiches. Serial No. 632,300, Nov. 24. Class 46.

Guenther, C. H., & Son, Incorporated, doing business as Pioneer Flour Mills, San Antonio, Tex. Wheat flour. Serial No. 588,214, Nov. 24. Class 46.

Gummed Products Company, The, Troy, Ohio. Moisture sensitive adhesive tapes. Serial No. 646,128, Nov. 24. Class 5.

Gyro Skid-Control Company, Inc., Beverly Hills, Calif. Vehicle antiskid devices. Serial No. 642,409, Nov. 24. Class 19.

Hammond Iron Works, Warren, Pa. Auxiliary fitting for a liquid storage tank. Serial No. 623,414, Nov. 24. Class 13.

Hardy, John G., Limited, London, England. Piece goods. Serial No. 612,859, Nov. 24. Class 42.

Hardy, John G., Limited, London, England. Piece goods. Serial No. 616,558, Nov. 24. Class 42.

Haverfield Company, The, Columbus, Ohio. Hats. Serial No. 645,246, Nov. 24. Class 39.

Hayward Products Co.: *See*—
Nature Food Centres, Inc.

Heddon's, James, Sons, Dowagiac, Mich. Fishing reels. Serial No. 652,724, Nov. 24. Class 22.

Hershey Chocolate Corporation, Hershey, Pa. Solid chocolate. Serial No. 623,543, Nov. 24. Class 45.

Hirschman, Albert B., deceased, doing business as Gastro-Pulvis Company, San Pedro, C. C. Katleman, executor of said A. B. Hirschman, assignor to M. Hirschman, Palm Village, Calif. Antacid powder. Serial No. 588,136, Nov. 24. Class 18.

Hirschman, Maude, assignee: *See*—
Hirschman, Albert B.

Hoeganaes Sponge Iron Corporation, New York, N. Y. Iron powder and sponge iron. Serial No. 640,273, Nov. 24. Class 14.

Huduut, Richard, New York, N. Y. Cosmetic kits. Serial No. 633,672, Nov. 24. Class 51.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Steam-jet, water vapor refrigeration units. Serial No. 646,287, Nov. 24. Class 31.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 647,419, Nov. 24. Class 46.

Italian and French Wine Co.: *See*—
Battistoni, Romeo.

Jamedale Hosiery Mills, Inc., Blackwood, N. J. Women's foot socks. Serial No. 644,321, Nov. 24. Class 39.

Kaiser Steel Corporation, Oakland, Calif. Continuous weld standard steel pipe and electric weld pipe. Serial No. 647,629, Nov. 24. Class 13.

Katleman, Carl C., executor: *See*—
Hirschman, Albert B.

Kaybee Corporation, The, New York, N. Y. Flexible plastic film, and shelf lining, shelf edging, etc. Serial No. 643,911, Nov. 24. Class 42.

Keystone Broadcasting System, Inc., Chicago, Ill. Selling of advertising time on radio broadcasting stations. Serial No. 619,973, Nov. 24. Class 101.

Kinzler, K., New York, N. Y. Rope, twine, and cord. Serial No. 646,675, Nov. 24. Class 1.

Kornfeld, Phil, Inc., New York, N. Y. Men's hats. Serial No. 647,507, Nov. 24. Class 39.

Lamigias Company, Kent, Wash. Fishing rods. Serial Nos. 649,517–19, Nov. 24. Class 22.

La Questa Olive Growers: *See*—
Well, Ira O.

Larsen Products Corporation, Bethesda, Md. Adhesive preparation. Serial No. 643,494, Nov. 24. Class 5.

Larus & Brother Company, Richmond, Va. Cigarettes. Serial No. 647,429, Nov. 24. Class 17.

Lazarus Laboratories, Inc., Division of West Disinfecting Company, Buffalo, N. Y. Liquid detergent germicide cleaner. Serial No. 643,345, Nov. 24. Class 52.

Leicy's, Inc., Steubenville, Ohio. Sedative anti-spasmodic preparation. Serial No. 647,783, Nov. 24. Class 18.

Leighton Hats, Inc., New York, N. Y. Women's, men's, and children's hats and hat bodies. Serial No. 515,316, Nov. 24. Class 39.

Lenson, U. & J., Corp., The, Brooklyn, N. Y. Coffee Serial No. 641,994, Nov. 24. Class 46.

Lepetit, S. P. A., Milan, Italy. Antibiotic, antitubercular preparations. Serial No. 634,983, Nov. 24. Class 18.

Linen Thread Co., Inc., The, Paterson, N. J. Fish netting. Serial No. 637,931, Nov. 24. Class 42.

Livernois Moving and Storage Company: *See*—
Patrick, Edgar.

Longines-Wittnauer Watch Co., Inc., New York, N. Y. Series of motion picture films. Serial No. 647,703, Nov. 24. Class 26.

Lubin-Weeker Co., Inc., New York, N. Y. Pajamas. Serial No. 645,819, Nov. 24. Class 39.

Lynch, J. M., & Bro., Louisville, Ky. Hosiery. Serial No. 642,414, Nov. 24. Class 39.

Lynch, J. M., & Bro., Louisville, Ky. Hosiery. Serial No. 647,359, Nov. 24. Class 39.

Mack, Louis P., Chicago, Ill. Trusses. Serial No. 612,811, Nov. 24. Class 44.

Mammoth Hosiery Mills, Inc., Philadelphia, Pa. Women's hosiery. Serial No. 630,899, Nov. 24. Class 39.

Manning, Maxwell & Moore, Incorporated, New York, N. Y. Pressure gauges. Serial No. 646,448, Nov. 24. Class 26.

Mansfield Industries, Inc., Chicago, Ill. Moving picture photographic equipment. Serial No. 647,430, Nov. 24. Class 26.

Mar-Gold Corporation, The, Atlanta, Ga. Oleomargarine. Serial No. 619,636, Nov. 24. Class 46.

McColpin-Christie Corp., Los Angeles, Calif. Constant voltage electrical rectifiers. Serial No. 638,207, Nov. 24. Class 21.

Mc-H Company, St. Louis, Mo. Storage and display boxes. Serial No. 628,416, Nov. 24. Class 2.

McNeil Laboratories, Incorporated, Philadelphia, Pa. Antihistamine preparations. Serial No. 647,704, Nov. 24. Class 18.

Metals & Controls Corporation, Attleboro, Mass. Laminated metals. Serial No. 635,544, Nov. 24. Class 14.

Metals & Controls Corporation, Attleboro, Mass. Electrical contacts. Serial No. 635,545, Nov. 24. Class 21.

Midwest Dairy Products Corporation, Chicago, Ill. Dairy products. Serial No. 615,785, Nov. 24. Class 46.

Midwest Dried Milk Company, Dundee, Ill. Chicken and turkey feed. Serial No. 635,423, Nov. 24. Class 46.

Minnesota Macaroni Company, St. Paul, Minn. Macaroni. Serial No. 646,303, Nov. 24. Class 46.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Cone shaped springs for twisting onto electrical wires to connect the same. Serial No. 630,143, Nov. 24. Class 21.

Mock Seed Company, Pittsburgh, Pa. Chemical treatment of grass seed. Serial No. 639,949, Nov. 24. Class 6.

Moore, Mari: *See*—
Moore, Mrs. Thomas A.

Moore, Mrs. Thomas A., doing business as Mari Moore, Milwaukee, Wis. Children's underwear, dresses, sweaters, coats, etc. Serial No. 627,452, Nov. 24. Class 39.

Moore & Munger, New York, N. Y. Beater additive or size used in the manufacture of coated paper. Serial Nos. 647,307–8, Nov. 24. Class 6.

National Bellas Hess, Inc., North Kansas City, Mo. Sections or special features in catalogues. Serial No. 624,846, Nov. 24. Class 38.

National Laboratories, Inc., Toledo, Ohio. Liquid for cleaning surfaces of glass, wood, porcelain, painted walls, etc. Serial No. 637,284, Nov. 24. Class 52.

Nature Food Centres, Inc., doing business as Hayward Products Co., Cambridge, Mass. Chlorophyll tablets. Serial No. 631,172, Nov. 24. Class 18.

Nebraska Consolidated Mills Company, doing business as Alabama Flour Mills, Omaha, Nebr. Laying mash. Serial No. 634,799, Nov. 24. Class 46.

Neithold, Carl, Frankfurt am Main, Germany. Photographic apparatus. Serial No. 618,383, Nov. 24. Class 26.

Newark Comfort Company, Newark, N. J. Baby blankets, baby comforters, and baby carriage covers. Serial No. 639,890, Nov. 24. Class 42.

New York Association for the Blind, Inc., The, New York, N. Y. Floor brushes. Serial No. 641,953, Nov. 24. Class 29.

New York Silicate Book Slate Co., Inc., New York, N. Y. White blackboard chalk and water-soluble wax crayons. Serial No. 643,918, Nov. 24. Class 37.

Niagara Mohawk Power Corporation, Syracuse, N. Y. Supplying electrical energy and gas. Serial No. 641,260, Nov. 24. Class 100.

Norobob Laboratory: *See*—
Borun Bros.

Oil City Glass Company, Oil City, Pa. Glass bottles. Serial No. 639,893, Nov. 24. Class 33.

Ollendorff Watch Co. Inc., New York, N. Y. Watches and clocks. Serial No. 644,864, Nov. 24. Class 27.

Overland Coach Company, Inc., Chicago, Ill. House trailers. Serial No. 639,894, Nov. 24. Class 19.

Palace Clothing Co. Inc., The, Kansas City, Mo. Men's clothing. Serial No. 644,057, Nov. 24. Class 39.

Patrick, Edgar, doing business as Livernois Moving and Storage Company, Detroit, Mich. Transportation and storage services. Serial No. 597,403, Nov. 24. Class 105.

Peck & Peck, New York, N. Y. Costume jewelry. Serial No. 643,363, Nov. 24. Class 28.

Penn Valley Knitting Mills, Inc., Boyertown, Pa. Men's and boys' cotton knitted outer and underwear. Serial No. 647,031, Nov. 24. Class 39.

Pg. Laboratory, San Francisco, Calif. Pharmaceutical preparation. Serial No. 585,392, Nov. 24. Class 18.

Phelps, Norman J., Lake Forest, assignor to H. B. Trotter, Evanston, Ill. Perfume, cologne, lipstick, etc. Serial Nos. 647,032–3, Nov. 24. Class 51.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial Nos. 647,873–4, Nov. 24. Class 18.

Picker X-Ray Corporation Waite Manufacturing Division, Inc., Cleveland, Ohio. Milliamperage stabilizers for X-ray tubes. Serial No. 636,732, Nov. 24. Class 21.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. Serial No. 641,739, Nov. 24. Class 46.

Pioneer Flour Mills: *See*—
Guenther, C. H., & Son, Incorporated.

Point Sal Growers and Packers, Guadalupe, Calif. Fresh vegetables. Serial No. 645,589, Nov. 24. Class 46.

Polikoff, Ben, doing business as Polymold Plastics Company, Chicago, Ill. Plastic tile. Serial No. 636,305, Nov. 24. Class 12.

Polymold Plastics Company: *See*—
Polikoff, Ben.

Portis Style Industries, Inc., Chicago, Ill. Men's hats. Serial No. 636,939, Nov. 24. Class 39.

Puritan Knitting Mills, Inc., The, Altoona, Pa. Garments for wear by men, women, and children. Serial No. 607,559, Nov. 24. Class 39.

Quick-Set, Incorporated, Skokie, Ill. Photographic apparatus. Serial No. 646,490, Nov. 24. Class 26.

R. J. Oil & Refining Company, Inc., Terre Haute, Ind. Gasoline. Serial No. 648,132, Nov. 24. Class 15.

Rae Gren Company, Winnetka, Ill. Boys' and girls' berets. Serial No. 629,388, Nov. 24. Class 39.

Ramseier, Al: *See*—
Ramseier, Elva F.

Ramseier, Elva F., doing business under the assumed name of A. Ramseier, Corvallis, Oreg. Celluloid type finish coatings. Serial No. 634,115, Nov. 24. Class 16.

Raytheon Manufacturing Company, Newton, Mass. Apparatus adapted to receive alternating electric current, and to deliver both rectified unidirectional electric current and alternating electric current of a desired frequency, etc. Serial No. 636,253, Nov. 24. Class 21.

Red Arrow Laboratories: *See*—
Southwestern Drug Corporation.

Reliance Manufacturing Company, Chicago, Ill. Dress, negligee, and work shirts, and pajamas. Serial No. 631,178, Nov. 24. Class 39.

Renker-Belipa, G. m. b. H., Lendersdorf-Krauthausen near Duren, Germany. Paper, cardboard, carton, paper and cardboard wares, etc. Serial No. 624,719, Nov. 24. Class 37.

Retail Merchants Association of Texas, Austin, Tex. Reporting and making available credit information to merchants. Serial No. 607,097, Nov. 24. Class 101.

Richards, Wesley A., Detroit, Mich. Cosmetics. Serial No. 646,429, Nov. 24. Class 51.

Richheimer, William, doing business as Crown Coffee Co., Flushing, N. Y. Coffee and tea. Serial No. 632,797, Nov. 24. Class 46.

Rideways Limited, London, England. Tea. Serial No. 624,051, Nov. 24. Class 46.

Rogers Imports Inc., New York, N. Y. Smoking pipes and cigar and cigarette holders. Serial No. 612,140, Nov. 24. Class 8.

Ross, Florence M., Havertown, Pa. Cementitious material. Serial No. 634,269, Nov. 24. Class 12.
Rouse, Alfred G., doing business under the assumed business name of Rouse Mfg. Co., Portland, Oreg. Reflecting liners for electric burners. Serial No. 633,239, Nov. 24. Class 21.
Rouse Mfg. Co.: *See*—
Rouse, Alfred G.
Rowntree and Company Limited, York, England. Cocoa. Serial No. 638,737, Nov. 24. Class 46.
Royal Packing Company, Salinas, Calif. Fresh vegetables. Serial No. 646,402, Nov. 24. Class 46.
Russell Chemical Company, The, Cleveland, Ohio. Detergents for laundry purposes. Serial No. 621,840, Nov. 24. Class 52.
Saddler Textiles, Inc., New York, N. Y. Piece goods. Serial No. 643,616, Nov. 24. Class 42.
St. Pierre Chain Corporation, Worcester, Mass. Tire chains. Serial No. 641,221, Nov. 24. Class 13.
St. Thomas Inc., Gloversville, N. Y. Billfolds. Serial No. 645,513, Nov. 24. Class 3.
Saks & Company, New York, N. Y. Boys' and young men's outer clothing. Serial No. 647,726, Nov. 24. Class 39.
Salahist Laboratories: *See*—
Borun Bros.
Salsbury's, Dr., Laboratories, Charles City, Iowa. Preparation for the treatment of poultry diseases. Serial No. 647,953, Nov. 24. Class 18.
Santa Fe Novelty Company, Denver, Colo. Belts. Serial No. 647,545, Nov. 24. Class 39.
School-Timer Frocks, Inc., Port Park, S. C., and New York, N. Y. Children's dresses, dressing robes, jackets, etc. Serial No. 646,172, Nov. 24. Class 39.
Schwartz, Jack, Chicago, Ill. Pipe smoking tobacco. Serial No. 643,559, Nov. 24. Class 17.
Seabrook Farms Co., Upper Deerfield Township, N. J. Quick frozen vegetables. Serial No. 626,829, Nov. 24. Class 46.
Seattle Packing Company, Seattle, Wash. Chili concarne, bologna, pork sausage, etc. Serial No. 644,520, Nov. 24. Class 46.
Seinsheimer, H. A., Company, The, Cincinnati, Ohio. Textile fabrics. Serial No. 642,700, Nov. 24. Class 42.
Sheffield Corporation, The, Dayton, Ohio. Gauging apparatus. Serial No. 647,659, Nov. 24. Class 26.
Shinderman Management Corporation, Chicago, Ill. Management of hotels, resorts and similar types of properties, etc. Serial No. 617,817, Nov. 24. Class 101.
Shoenthal, Morris, Inc., New York, N. Y. Textile fabrics. Serial No. 637,726, Nov. 24. Class 42.
Silvalyte, Inc., Brooklyn, N. Y. Household and decorative glassware and glass tableware. Serial No. 627,977, Nov. 24. Class 33.
Simoniz Company, Chicago, Ill. Paste wax. Serial No. 641,471, Nov. 24. Class 4.
Sleepwear, Inc., New York, N. Y. Men's, women's, and children's pajamas. Serial No. 643,860, Nov. 24. Class 39.
Società Accomandita Semplice Franco Cella & C., Milan, Italy. Soaps. Serial No. 641,748, Nov. 24. Class 52.
Societe a Responsabilite Limitee Dite: Balenciaga, Paris, France. Perfumes and toilet water. Serial No. 642,095, Nov. 24. Class 51.
Societe Anonyme l'Aliment Essentiel, Nanterre, France. Dietary products. Serial No. 566,360, Nov. 24. Class 46.
Societe Rhodiaceta, Paris, France. Textile fabrics. Serial No. 644,072, Nov. 24. Class 42.
Societe Rhodiaceta, Paris, France. Textile fabrics. Serial No. 644,521, Nov. 24. Class 42.
Sola Electric Co., Chicago, Ill. Transformers or ballasts. Serial No. 634,951, Nov. 24. Class 21.
Southwestern Drug Corporation, doing business as Red Arrow Laboratories, Waco, Tex. Liniment. Serial No. 603,703, Nov. 24. Class 18.
Sparcatron Limited, Somerset and Bath, Somerset, England. Machines for the working of electrically conductive materials. Serial No. 639,788, Nov. 24. Class 21.
Spray-A-Tint: *See*—
Glass Tint Corporation.
Standard Hosiery Company, New York, N. Y. Men's, ladies', and children's hosiery. Serial No. 645,014, Nov. 24. Class 39.
Stanley Works, The, New Britain, Conn. Hardware. Serial No. 647,556, Nov. 24. Class 13.
Stapf Fabrics, Inc., New York, N. Y. Cotton fabrics. Serial No. 584,879, Nov. 24. Class 42.
Star Watch Case Co., Ludington, Mich. Watch cases. Serial No. 643,564, Nov. 24. Class 27.
Stein, S., & Co. Inc., New York, N. Y. Woolen fabrics. Serial No. 626,544, Nov. 24. Class 42.
Strohmeyer & Arpe Company, New York, N. Y. Vegetable and animal waxes. Serial No. 641,810, Nov. 24. Class 6.
Style Undies, Inc., New York, N. Y. Children's dresses, panties, slips, etc. Serial Nos. 647,107–9, Nov. 24. Class 39.
Sunset Line & Twine Co., Petaluma, Calif. Fishing lines. Serial No. 645,201, Nov. 24. Class 22.
Supradur Corporation of New York, New York, N. Y. Asbestos-cement roofing and siding shingles. Serial No. 631,383, Nov. 24. Class 12.
Sutherland Paper Company, Kalamazoo, Mich. Precut panels of paper board for use as bases in packaging food products. Serial No. 646,502, Nov. 24. Class 2.
Test-a-Curl, Inc., Seattle, Wash. Hair wave lotion. Serial No. 646,083, Nov. 24. Class 51.
Tomore Electric Corporation, Rochester, N. Y. Electrical resistors. Serial No. 643,006, Nov. 24. Class 21.
Toni Company The: *See*—
Gillette Company, The.
Topco Associates, Inc., Chicago, Ill. Facial tissues, paper napkins, paper towels, etc. Serial No. 644,470, Nov. 24. Class 37.
Tri-County Dairy Cooperative, Winthrop, Minn. Commercial feeds. Serial No. 637,156, Nov. 24. Class 46.
Trimble Hat Company, Minneapolis, Minn. Ski caps. Serial No. 644,812, Nov. 24. Class 39.
Trotter, Hugh B., assignee: *See*—
Phelps, Norman J.
Tryne Company, The, Sayville, N. Y. Puzzle game. Serial No. 652,744, Nov. 24. Class 22.
Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.
Underwood Corporation, assignee: *See*—
Electronic Computer Corporation.
U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y. Compounded rubber. Serial No. 633,229, Nov. 24. Class 1.
United World Films, Inc., New York, N. Y. Developed motion picture films. Serial No. 646,584, Nov. 24. Class 26.
Universal Fastener Company, Detroit, Mich. Slide fasteners. Serial No. 647,896, Nov. 24. Class 13.
Van Camp Sea Food Company, Inc., Terminal Island, Calif. Canned tuna fish. Serial No. 625,928, Nov. 24. Class 46.
Vapor Chemical Co., Rives Junction, Mich. Electric insecticide vaporizer. Serial No. 621,345, Nov. 24. Class 21.
Velvet Freeze, Inc., St. Louis, Mo. Ice cream. Serial No. 618,438, Nov. 24. Class 46.
Vinyl Plastics, Inc., Sheboygan, Wis. Flexible plastic tiles. Serial No. 630,638, Nov. 24. Class 20.
Wander Company, The, Chicago, Ill. Medicinal suppository. Serial No. 625,307, Nov. 24. Class 18.
Wander Company, The, Chicago, Ill. Medicinal tablet. Serial No. 625,308, Nov. 24. Class 18.
Warrior Asphalt Corporation, Holt, Ala. Asphalt. Serial No. 635,944, Nov. 24. Class 1.
Webster Manufacturing Co.: *See*—
Webster, Marvin.
Webster, Marvin, doing business as a sole proprietorship known as Webster Manufacturing Co., San Francisco, Calif. Antennas. Serial No. 621,740, Nov. 24. Class 21.
Well, Ira O., doing business as La Questa Olive Growers, Corning, Calif. Canned and bottled olives. Serial No. 642,332, Nov. 24. Class 46.
Western Mines, Inc., Pueblo, Colo. Soil conditioners and soil fertilizers. Serial No. 638,230, Nov. 24. Class 10.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Mechanical vacuum pumps, aircraft engines, etc. Serial No. 637,019, Nov. 24. Class 23.
Wilson, H. A., Company, The, Union, N. J. Thermostatic bimetals. Serial Nos. 649,745–7, Nov. 24. Class 14.
Wincharger Corporation, Sioux City, Iowa. Engine-driven power apparatus and parts thereof. Serial No. 635,504, Nov. 24. Class 21.
Winchester & Woods, Inc., Baltimore, Md. Combination toy watch and trinket box. Serial No. 637,344, Nov. 24. Class 22.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Acid type detergent and scale removing compound. Serial No. 629,134, Nov. 24. Class 52.
Wyomissing Glazed Paper Company, West Reading, Pa. Flint glazed paper, friction glazed paper, plated label paper, etc. Serial No. 639,860, Nov. 24. Class 37.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. 582,874, Nov. 24; Serial No. 642,118, published Aug. 11, 1953. Class 18.

Abbott Laboratories, North Chicago, Ill. Line of injectable mineral salt, alcohol, and glucose solutions. 582,877, Nov. 24; Serial No. 642,252, published Aug. 11, 1953. Class 18.

Acrolite International: *See*—
Poznak, Murray P.
Affiliated Retailers, Inc., New York, N. Y. Toilet tissue and toilet paper, wax paper, etc. 582,655, Nov. 24; Serial No. 614,683, published Aug. 4, 1953. Class 37.
Aircraft Marine Products Inc., Harrisburg, Pa. Insulated electrical connectors. 582,653, Nov. 24; Serial No. 613,860, published Aug. 18, 1953. Class 21.
Aircraft Transformer Corporation, Matawan, N. J. Insulatory fitted coverings for use on transformers and related electrical units. 582,698, Nov. 24; Serial No. 625,384, published July 28, 1953. Class 21.
Airex Corporation, New York, N. Y. Fishing and spinning reels, fishing and spinning rods, fishing plugs, etc. 582,974–5, Nov. 24; Serial Nos. 648,639–40, published Sept. 1, 1953. Class 22.
Aktiebolaget Rörstrands Porslinsfabriker, Lidkoping, Sweden. Kitchenware and ovenware, table ware, etc. 582,673–4, Nov. 24; Serial Nos. 619,731–2, published July 28, 1953. Class 30.
Aladdin Laboratories, Inc., Minneapolis, Minn. Hair rinse. 582,692, Nov. 24; Serial No. 624,522, published July 21, 1953. Class 51.
Alarcon, Angel C., Moron de la Frontera, Seville, Spain. Olive oil. 582,646, Nov. 24; Serial No. 610,946, published Aug. 18, 1953. Class 46.
Aldor, George, Co., Inc., New York, N. Y. Hosiery. 582,795, Nov. 24; Serial No. 635,016, published July 28, 1953. Class 39.
Allen Carpet Cleaning and Rug Weaving Company, Buffalo, N. Y. Cleaning and repairing of rugs, carpets, etc. 582,980, Nov. 24; Serial No. 619,780, published Aug. 18, 1953. Class 103.
Allen Foods, Inc., St. Louis, Mo. Malt vinegar, steak sauce, Worcestershire sauce, etc. 582,745, Nov. 24; Serial No. 630,743, published Aug. 25, 1953. Class 46.
Allied Laboratories, Inc., Kansas City, Mo. Serum. 582,811, Nov. 24; Serial No. 639,303, published Aug. 11, 1953. Class 18.
American Brake Shoe Company, New York, N. Y. Forgings. 582,941, Nov. 24; Serial No. 643,261, published Aug. 25, 1953. Class 14.
American Cyanamid Company, New York, N. Y. Geriatric-mineral supplement with hormones. 582,927, Nov. 24; Serial No. 638,387, published Aug. 4, 1953. Class 18.
American Distilling Company, The, doing business as Willow Springs Distilling Company, New York, N. Y. Vodka. 582,885, Nov. 24; Serial No. 642,591, published Aug 11, 1953. Class 49.
American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Paper toilet tissue. 582,837, Nov. 24; Serial No. 640,662, published Aug. 4, 1953. Class 37.
American Lithofoid Corporation, St. Louis, Mo. Printed forms. 582,851, Nov. 24; Serial No. 641,418, published Aug. 11, 1953. Class 37.
American-Marietta Company, Chicago, Ill. Paint. 582,844, Nov. 24; Serial No. 640,995, published July 7, 1953. Class 16.
American Silver Company, The, Bristol, to The International Silver Company, Meriden, Conn. Silver plated tableware. 306,890, renewed Oct. 3, 1953. O. G. Nov. 24. Class 28.
American Sportex Co.: *See*—
Service Cycle Supply Corporation.
Amplifier Corporation of America, New York, N. Y. Magnetic sound recording and playback apparatus and parts thereof. 582,852, Nov. 24; Serial No. 641,421, published Aug. 25, 1953. Class 21.
Anderson Company, The, Gary, Ind. Windshield wiper blades. 582,940, Nov. 24; Serial No. 639,004, published Sept. 1, 1953. Class 19.
Anderson, R. E., Aurora, Ill. Electric switches. 582,604, Nov. 24; Serial No. 571,398, published Jan. 3, 1950. Class 21.
Ansul Chemical Company, Marinette, Wis. Cleaning solvent. 582,818, Nov. 24; Serial No. 639,605, published Aug. 25, 1953. Class 52.
Anthony Company, Streator, Ill. Vehicle dumping bodies and parts thereof. 582,620, Nov. 24; Serial No. 590,970, published Mar. 10, 1953. Class 19.
Apple Growers Association, Hood River, Oreg. Canned fruit. 309,738, renewed Jan. 30, 1954. O. G. Nov. 24. Class 46.
Architectural Tiling Company, Inc., Keyport, N. J., and New York, N. Y. Ceramic and clay tiles. 582,762, Nov. 24; Serial No. 631,776, published July 28, 1953. Class 12.
Ardath Tobacco Company, Limited: *See*—
Levy, Albert.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Lipsticks and rouge. 306,693, Sept. 26, 1933. Republished Nov. 24. Class 51.
Arden, Elizabeth, Sales Corporation: *See*—
Arden, Elizabeth, Inc.
Aristocrat Leather Products, Inc., New York, N. Y. Belts and suspenders. 582,616, Nov. 24; Serial No. 586,722, published Apr. 7, 1953. Class 39.
Arizona Citrus Growers, Phoenix, Ariz. Fresh citrus fruits. 582,781, Nov. 24; Serial No. 634,069, published May 26, 1953. Class 46.
Arkell Safety Bag Company, New York, N. Y. Bags; and linings for bags, barrels, boxes, and drums. 582,654, Nov. 24; Serial No. 614,332, published Aug. 18, 1953. Class 2.
Arkwright Merchandising Corporation, New York, N. Y. Infants' crib pads, crib sheets, and crib blankets. 582,737, Nov. 24; Serial No. 628,994, published Aug. 25, 1953. Class 42.
Armour and Company, Chicago, Ill. Canned foods. 582,608, Nov. 24; Serial No. 575,798, published Aug. 25, 1953. Class 46.
Armour and Company, Chicago, Ill. Granules containing liver, iron, and folic acid. 582,640, Nov. 24; Serial No. 609,774, published Aug. 11, 1953. Class 18.
Armour and Company, Chicago, Ill. Isonicotinic acid hydrazide. 582,937, Nov. 24; Serial No. 638,939, published Aug. 11, 1953. Class 18.
Armour and Company, Chicago, Ill. Pharmaceutical preparation. 582,938, Nov. 24; Serial No. 638,943, published Aug. 11, 1953. Class 18.
Armour and Company, Chicago, Ill. Thyrotropic hormone preparation. 582,939, Nov. 24; Serial No. 638,944, published Aug. 11, 1953. Class 18.
Ashland Paper Mills, Inc., Ashland, N. H. Paper napkins. 582,667, Nov. 24; Serial No. 618,201, published July 28, 1953. Class 37.
Associated Brands, Inc., Brooklyn, N. Y. Hair shampoo. 582,799–800, Nov. 24; Serial Nos. 635,213–14, published Aug. 25, 1953. Class 52.
Atkins Plastic Products Co., New York, N. Y. Medicine cabinets. 582,846, Nov. 24; Serial No. 641,263, published Aug. 25, 1953. Class 32.
Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Synthetic resin composition for coating and impregnating concrete, etc. 582,659, Nov. 24; Serial No. 615,748, published Aug. 18, 1953. Class 12.
Attenhofer, Adolf, Zurich, Switzerland. Ski-bindings. 583,021, Nov. 24; Serial No. 636,960. Class 22.
Attorney General of the United States, vested in the: *See*—
Bleistiftfabrik Vormals Johann Faber Actien Gesellschaft.
Nozaki Bros. & Co., Ltd.
Audak Company, Inc., The, New York, N. Y. Electronic sound recording, amplifying, playing and play-back apparatus, etc. 582,773, Nov. 24; Serial No. 632,864, published Aug. 25, 1953. Class 21.
Austin Laboratories, Inc., Buffalo, N. Y. Tablets combining various sulfa drugs with streptomycin. 582,732, Nov. 24; Serial No. 629,414, published Aug. 11, 1953. Class 18.
Automatic Totalisators Limited, Meadowbank, Sydney, New South Wales, Australia. Machines for registering and indicating the number and nature of bets. 582,735, Nov. 24; Serial No. 629,083, published Aug. 25, 1953. Class 26.
Babee-Tenda License Corporation, Metropolis, Ill., and Cleveland, Ohio. Repairing children's furniture. 582,984, Nov. 24; Serial No. 633,246, published Aug. 18, 1953. Class 103.
Baby Scope Company, Inc., The, Los Angeles, Calif. Combination child's high chair and walker. 582,856, Nov. 24; Serial No. 641,598, published Aug. 25, 1953. Class 32.
Badische Anilin- & Soda-Fabrik (I. G. Farbenindustrie Aktiengesellschaft "In Auflösung") Ludwigshafen (Rhine), Germany. Polymeric vinyl compounds. 582,783, Nov. 24; Serial No. 634,395, published Aug. 25, 1953. Class 6.
Bak-Kraft Corporation, Ltd., Los Angeles, Calif. Compound of aqueous mono and di glyceryls and other esters, used in the production of sponge cakes. 583,000, Nov. 24; Serial No. 603,399. Class 46.
Balfour, Guthrie & Co., Limited, San Francisco, Calif. Canned fruits; canned vegetables; fresh citrus fruits, etc. 582,706, Nov. 24; Serial No. 625,883, published Aug. 25, 1953. Class 46.
Balsa Ecuador Lumber Corp., New York, N. Y. Lumber. 580,244, Sept. 22, 1953. Corrected. O. G. Nov. 24. Class 12.
Bancroft, Joseph, & Sons Co., Wilmington, Del. Window shade fabrics. 304,828, July 18, 1933. Republished Nov. 24. Class 42.
Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. 582,963, Nov. 24; Serial No. 644,889, published Aug. 25, 1953. Class 42.
Barclay & Barclay, to Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Preparations for improving and dyeing hair, dentifrice, facial cream, etc. 93,625, re-renewed Oct. 7, 1953. O. G. Nov. 24. Class 51.
Bauer Chemical Company, Inc., The, Locust Valley, N. Y. Combination of benzoin, oil of eucalyptus, oil of pine needles, etc. 582,919, Nov. 24; Serial No. 638,120, published Aug. 11, 1953. Class 18.
Beacon Manufacturing Company, Swannanoa, N. C. Blankets. 582,964, Nov. 24; Serial No. 644,956, published Aug. 25, 1953. Class 42.
Beam, James B., Distilling Co.: *See*—
Weideman Company, The.
Bear Brand Hosiery Co., Chicago, Ill. Men's hosiery. 582,845, Nov. 24; Serial No. 641,000, published July 28, 1953. Class 39.

Beardstown Mills Company, The: *See*—
Schultz, Baujan & Co.

Behr, Arthur, & Co., Inc., New York, N. Y. Cotton piece goods. 582,779, Nov. 24; Serial No. 633,913, published Sept. 1, 1953. Class 42.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Adult bicycles. 582,972, Nov. 24; Serial No. 648,354, published Sept. 1, 1953. Class 19.

Belrug Mills of South Carolina, Greenville, S. C. Loom woven cut pile cotton rugs. 582,960, Nov. 24; Serial No. 644,593, published Sept. 1, 1953. Class 42.

Benya Drug Company, Wernersville, Pa. Vitamin and mineral food supplement preparation. 582,922, Nov. 24; Serial No. 638,238, published Aug. 4, 1953. Class 18.

Berry Brothers, Inc.: *See*—
Berry Brothers Ltd.

Berry Brothers Ltd., by Berry Brothers, Inc., Detroit, Mich. Substitute for linseed-oil. 93,327, Sept. 9, 1913. Republished Nov. 24. Class 16.

Better Brushes, Incorporated, Palmer, Mass. Bath oil, liquid skin balm, and cream deodorant. 582,812, Nov. 24; Serial No. 639,412, published Aug. 25, 1953. Class 51.

Bird & Son, Inc., East Walpole, Mass. Seed, flower, fruit and plant pots. 583,023, Nov. 24; Serial No. 641,167. Class 2.

Birma Products Corporation, Buffalo, N. Y. Gaskets and packing material. 582,928, Nov. 24; Serial No. 638,397, published Aug. 25, 1953. Class 35.

Blake, Irene: *See*—
Blake, Irene, Cosmetics, Inc.

Blake, Irene, Cosmetics, Inc., also doing business as Irene Blake, assignor to E. Westall, trading as Evelyn Westall Company, by Parfums Evyan, Inc., New York, N. Y. Perfume, cologne, and dusting powder. 422,303, July 16, 1946. Republished Nov. 24. Class 51.

Blake, Moffitt & Towne, San Francisco, Calif. Waxed paper. 582,600, Nov. 24; Serial No. 562,441, published July 28, 1953. Class 37.

Bleistiftfabrik Vormals Johann Faber Actien Gesellschaft, Nuremberg, Germany, vested in the Attorney General of the United States, Washington, D. C. Lead-pencils, colored pencils, copying-pencils, etc. 41,130, re-renewed Sept. 22, 1953. O. G. Nov. 24. Class 37.

Blood Grouping Laboratory of Boston, Inc., The, Boston, Mass. Blood grouping serums. 582,807, Nov. 24; Serial No. 635,869, published Aug. 11, 1953. Class 18.

Bloomer Bros. Company, Newark, N. Y. Egg cartons. 582,908, Nov. 24; Serial No. 637,298, published Aug. 18, 1953. Class 2.

Borg, George W., Corporation, The, Delavan, Wis. Dials for rotor parts of electrical apparatus. 582,734, Nov. 24; Serial No. 629,345, published Aug. 25, 1953. Class 21.

Bourjois, Inc., New York, N. Y. Men's toilet preparations. 582,902, Nov. 24; Serial No. 636,876, published July 14, 1953. Class 51.

Brearley Company, The, Rockford, Ill. Weighing scales. 582,764, Nov. 24; Serial No. 631,846, published Aug. 25, 1953. Class 26.

Breneman-Hartshorn, Inc., Cincinnati, Ohio. Window shades. 582,834, Nov. 24; Serial No. 640,601, published Aug. 25, 1953. Class 32.

Brevitt Shoes Limited, Leicester, England. Boots, shoes and slippers. 582,672, Nov. 24; Serial No. 619,488, published Aug. 25, 1953. Class 39.

Briggs, John J., doing business as Briggs' Laboratory Products Company, Indianapolis, Ind. Pharmaceutical preparation. 582,895, Nov. 24; Serial No. 636,113, published Aug. 4, 1953. Class 18.

Briggs' Laboratory Products Company: *See*—
Briggs, John J.

Bud Radio, Inc., Cleveland, Ohio. Radio apparatus, supplies, and equipment, etc. 303,469, renewed May 23, 1953. O. G. Nov. 24. Class 21.

Bulova Watch Company, Inc., New York, N. Y. Electrically sensitive speaker apparatus. 582,770, Nov. 24; Serial No. 632,656, published Aug. 25, 1953. Class 21.

Bulova Watch Company, Inc., New York, N. Y. Watches. 582,956, Nov. 24; Serial No. 644,280, published July 28, 1953. Class 27.

Burlington Mills Corporation, Greensboro, N. C. Fabrics. 582,969, Nov. 24; Serial No. 645,535, published Aug. 25, 1953. Class 42.

Cadillac Wine Distributing Company, Detroit, Mich. Wines. 314,228, June 19, 1934. Canceled Oct. 9, 1953. O. G. Nov. 24. Class 47.

Cafa-Roll, Inc., Carthage, Mo. Electrically driven apparatus comprising a continuous conveyor belt, etc. 582,791, Nov. 24; Serial No. 634,681, published July 7, 1953. Class 23.

Califone Corporation, Los Angeles, Calif. Electrical apparatus. 582,612, Nov. 24; Serial No. 580,716, published Dec. 26, 1950. Class 21.

California Berry Freezers, Inc., Watsonville, Calif. Fresh strawberries and frozen fresh strawberries. 582,731, Nov. 24; Serial No. 629,472, published May 26, 1953. Class 46.

Callahan Zinc-Lead Company, Inc., Amesbury, Mass. Wire reinforced fabric hose. 582,888, Nov. 24; Serial No. 642,941, published Aug. 25, 1953. Class 35.

Capital Drug Company, doing business as Pope Laboratories, Augusta, Maine. Preparation for the external treatment of muscular aches and pains, etc. 582,798, Nov. 24; Serial No. 635,120, published Aug. 18, 1953. Class 18.

Car-Freshner Co.: *See*—
Saman, Jules.

Carwan Woolen Corporation, New York, N. Y. Textile fabrics. 582,810, Nov. 24; Serial No. 639,209, published Sept. 1, 1953. Class 42.

Casimir Funk Laboratories, Inc., New York, N. Y. Preparation comprising in combination androgenic hormones with multivitamins, etc. 582,866–7, Nov. 24; Serial Nos. 641,906–8, published Aug. 11, 1953. Class 18.

Cedarville Packing Company, Hoboken, N. J. Canned tomatoes, tomato paste, olive oil, and cheese. 582,622, Nov. 24; Serial No. 593,219, published Sept. 1, 1953. Class 46.

Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Static removing acrylic plastic cleaners or solutions, de-icer boot removing solutions, etc. 582,665, Nov. 24; Serial No. 617,336, published Aug. 18, 1953. Class 6.

Chevette, Inc., New York, N. Y. Ladies' and misses' underwear. 582,887, Nov. 24; Serial No. 642,803, published Aug. 18, 1953. Class 39.

Childs Company, Long Island City, N. Y. Restaurant, luncheonette and bar services. 582,986, Nov. 24, Serial No. 636,689, published Aug. 18, 1953. Class 100.

Ciba Limited, Basel, Switzerland. Coal tar colors. 582,869, Nov. 24; Serial No. 642,013, published Aug. 18, 1953. Class 6.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Pharmaceutical preparations. 582,752, Nov. 24; Serial No. 631,202, published Oct. 28, 1952. Class 18.

Cinch Products, Inc.: *See*—
Red-Ee Foods, Inc.

Ciroli, Anthony J., doing business as Yankee Homecrafts, Medford, Mass. Art needlework device. 582,720, Nov. 24; Serial No. 627,996, published Aug. 18, 1953. Class 40.

Clairol Incorporated, Stamford, Conn. Hair lightening preparations. 582,677, Nov. 24; Serial No. 620,803, published Aug. 18, 1953. Class 51.

Claremont Laboratories, Inc., Maspeth, N. Y. Television cathode ray tubes. 582,777, Nov. 24; Serial No. 633,489, published Aug. 25, 1953. Class 21.

Clementon Hosiery Mill: *See*—
Lihn, Manuel M.

Clicquot Club Company, Millis, Mass. Carbonated non-alcoholic, noncereal, maltless beverages. 309,229, renewed Jan. 9, 1954. O. G. Nov. 24. Class 45.

Coast-In Pontiac Co., Inc., Washington, D. C. New and used automotive vehicles. 582,976, Nov. 24; Serial No. 648,914, published Sept. 1, 1953. Class 19.

Coats & Clark Inc., New York, N. Y. Thread. 582,946–8, Nov. 24; Serial Nos. 643,652–4, published Aug. 18, 1953. Class 43.

Cole, Helen, Inc., New York, N. Y. Decorative metal table stands. 582,716, Nov. 24; Serial No. 627,809, published Aug. 25, 1953. Class 32.

Colwell Publishing Company, Champaign, Ill. Physician's record and account book. 309,610, renewed Jan. 23, 1954. O. G. Nov. 24. Class 37.

Commercial Solvents Corporation, New York, N. Y. Bacitracin for intramuscular injection. 582,740, Nov. 24; Serial No. 630,122, published Aug. 18, 1953. Class 18.

Commonwealth Color & Chemical Company, New York, N. Y. Product known as an organic reducing agent for the pre-scouring or cleansing of polyacrylic fibers, etc. 582,696, Nov. 24; Serial No. 625,256, published Aug. 25, 1953. Class 52.

Con-Cor Paint Company, Kansas City, Mo. Cement-base, waterproof coating compound. 582,648, Nov. 24; Serial No. 611,942, published Aug. 18, 1953. Class 16.

Connolly Shoe Co., Stillwater, Minn. Shoes. 308,709, Dec. 19, 1933. Republished Nov. 24. Class 39.

Consolidated Cosmetics, Chicago, Ill., by Parfums Evyan, Inc., New York, N. Y. Face powder, perfume, lipstick, and cologne. 433,759, Oct. 28, 1947. Republished Nov. 24. Class 51.

Consolidated Distilleries, Limited, to H. Corby Distillery Limited, Montreal, Quebec, Canada. Whiskey and other potable distilled liquors. 306,209, renewed Sept. 12, 1953. O. G. Nov. 24. Class 49.

Consolidated Orange Growers: *See*—
McPherson Heights Citrus Association.

Continental Aluminum Corporation, South Kearny, N. J. Sidings of aluminum. 582,621, Nov. 24; Serial No. 592,074, published July 28, 1953. Class 12.

Coon, W. B., Company, Rochester, N. Y. Women's shoes. 582,853–4, Nov. 24; Serial Nos. 641,433–4, published Aug. 25, 1953. Class 39.

Corby, H., Distillery Limited: *See*—
Consolidated Distilleries, Limited.

Cornell Paperboard Products Co., Milwaukee, Wis. Automatic stripping attachment. 583,017, Nov. 24; Serial No. 634,242. Class 23.

Cover, Harvey S., South Bend, Ind. Respirators and gas masks. 308,567, Dec. 12, 1933. Republished Nov. 24. Class 44.

Cowles Company, The, Cayuga, N. Y. Slushing, defibering, and refining machine. 582,746, Nov. 24; Serial No. 630,763, published July 7, 1953. Class 23.

Cribari, B., & Sons, San Jose, by B. Cribari & Sons, Fresno, Calif. Wines. 307,453, Oct. 24, 1933. Republished Nov. 24. Class 47.

Cup Brew Coffee Bag Company, Denver, Colo. Coffee. 583,002–3, Nov. 24; Serial Nos. 614,401–2. Class 46.

Cutter Laboratories, Berkeley, Calif. Parenteral solutions. 582,715, Nov. 24; Serial No. 627,498, published Aug. 11, 1953. Class 18.

D'Arcey, G. W., Co., San Jose, Calif. Games. 582,879, Nov. 24; Serial No. 642,391, published Sept. 1, 1953. Class 22.

Dalton Film Company, Tulsa, Okla. Motion picture film. 583,024, Nov. 24; Serial No. 642,022. Class 26.

Dan River Mills, Incorporated, Danville, Va. Cotton broadcloth shirting in the piece. 582,962, Nov. 24; Serial No. 644,743, published Aug. 25, 1953. Class 42.

Dand-Rid'R Company, New York, N. Y. Dandruff preparation. 582,699, Nov. 24; Serial No. 625,406, published Aug. 25, 1953. Class 51.

Daniel, Jack, Distillery, Lem Motlow, Prop., Inc., Lynchburg, Tenn. Whiskey. 582,789, Nov. 24; Serial No. 634,575, published July 28, 1953. Class 49.

Daniels Manufacturing Company, Rhinelander, Wis. Paper napkins and paper towels. 305,371, renewed Aug. 15, 1953. O. G. Nov. 24. Class 37.

David & Sons: *See*—
Der Hairbedian, David.

Davis Plywood Corporation, The, Cleveland, Ohio. Plywood sheet material. 582,757, Nov. 24; Serial No. 631,405, published July 28, 1953. Class 12.

Dayton Food Products Co., The, Dayton, Ohio. Malted milk base powders. 582,624, Nov. 24; Serial No. 599,502, published Nov. 18, 1952. Class 46.

Deerfield Groves Company, Wabasso, Fla. Fresh citrus fruits. 582,971, Nov. 24; Serial No. 645,872, published Aug. 11, 1953. Class 46.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 582,903, Nov. 24; Serial No. 637,041, published Sept. 1, 1953. Class 42.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 582,965, Nov. 24; Serial No. 645,036, published Aug. 25, 1953. Class 42.

Dell, Kathleen, School, Inc., Brookline, Mass. Conducting specialized educational courses in airline secretarial instruction and training. 582,978 Nov. 24; Serial No. 592,260, published Aug. 18, 1953. Class 107.

Der Hairbedian, David, doing business under the firm name and style of David & Sons, Fresno, Calif. Edible nuts, raisins, and edible seeds. 582,656, Nov. 24; Serial No. 615,319, published Aug. 11, 1953. Class 46.

Dick, A. B., Company, Niles, Ill. Duplicating machines and parts thereof. 306,272, Sept. 12, 1933. Republished Nov. 24. Class 23.

Dijam Enterprises Inc., doing business as Marvin Manufacturing Company, Los Angeles, Calif. Ventilating fans and blowers. 583,004, Nov. 24; Serial No. 616,085. Class 34.

Dille, John F., Chicago, Ill. Toys. 316,603, Aug. 28, 1934. Republished Nov. 24. Class 22.

Donnelley, R. R., & Sons Company, Chicago, Ill. Printing, photoengraving, lithographing, type-setting, and rotogravure work. 582,982, Nov. 24; Serial No. 627,562, published Aug. 18, 1953. Class 101.

Dorr Candies: *See*—
Dianagan, John M.

Dorr Company, The, Stamford, Conn. Centrifugal machinery. 582,685, Nov. 24; Serial No. 622,071, published June 30, 1953. Class 23.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. 582,994, Nov. 24; Serial No. 641,608, published July 21, 1953. Class 12.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. 582,995, Nov. 24; Serial No. 642,271, published July 21, 1953. Class 12.

Dove, Helen, Martha's Vineyard, Mass. Appetizer hors d'oeuvre. 582,904, Nov. 24; Serial No. 637,043, published Aug. 18, 1953. Class 46.

Drambuie Liqueur Co. Ltd., The, Edinburgh, Scotland. Distilled alcoholic liqueur. 582,826, Nov. 24; Serial No. 640,110, published Aug. 18, 1953. Class 49.

Dri-Wear Fur Processing Co., New York, N. Y. Chemical compound. 583,025, Nov. 24; Serial No. 642,450. Class 52.

Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. 582,883, Nov. 24; Serial No. 642,531, published July 28, 1953. Class 18.

Drummondville Cotton Company, Limited, Montreal, Quebec, Canada. Nets for use in the fishing industry. 582,748, Nov. 24; Serial No. 630,835, published Sept. 1, 1953. Class 22.

Duchess Hosiery Corporation, New York, N. Y. Women's hosiery. 582,669, Nov. 24; Serial No. 619,074, published July 21, 1953. Class 39.

Dugan Brothers of New Jersey, Inc., Newark, N. J. Bread, cakes, and pies. 304,548, July 11, 1933. Republished Nov. 24. Class 46.

Durex Products, Inc., New York, N. Y. Pessaries. 309,111, renewed Jan. 2, 1954. O. G. Nov. 24. Class 44.

Durowe Deutsche Uhrenrohwerke L. Hummel & Co.: *See*—
Hummel, Ludwig.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. High boiling oily esters, etc. 360,620, Sept. 20, 1938. Canceled Oct. 22, 1953. O. G. Nov. 24. Class 6

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Grease. 360,854, Sept. 27, 1938. Canceled Oct. 22, 1953. O. G. Nov. 24. Class 15.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. High boiling oily esters, etc. 361,217, Oct. 11, 1938. Canceled Oct. 22, 1953. O. G. Nov. 24. Class 6.

Echevarria, Sylvia, New York, N. Y. Liquid sauce. 582,998, Nov. 24; Serial No. 593,059. Class 46.

Electric Sprayit Company, The, Sheboygan, Wis. Pressure tanks. 582,725, Nov. 24; Serial No. 629,994, published Aug. 18, 1953. Class 2.

Electronic Computer Corporation, assignor to Underwood Corporation, New York, N. Y. Electronic digital computers and delay lines. 582,738, Nov. 24; Serial No. 628,746, published Aug. 25, 1953. Class 26.

Emerson, B., Inc., Washington, D. C. Jewelry. 582,751, Nov. 24; Serial No. 631,098, published July 21, 1953. Class 28.

Enrich, Henry A., and Co. Inc., New York, N. Y. Shoe rack. 582,910, Nov. 24; Serial No. 637,481, published Aug. 25, 1953. Class 32.

Ergol Photochemical Research Limited, London, England. Chemical preparations. 582,847, Nov. 24; Serial No. 641,284, published Aug. 18, 1953. Class 6.

Esbeco Distilling Corporation, Stamford, Conn. Whisky. 582,603, Nov. 24; Serial No. 570,548, published Aug. 11, 1953. Class 49.

Eskimo Pie Corporation, Bloomfield, N. J. Vanilla extract. 582,870, Nov. 24; Serial No. 642,025, published Aug. 25, 1953. Class 46.

Essex Wire Corporation, Detroit, Mich. Electrical building wires. 582,609, Nov. 24; Serial No. 577,954, published Aug. 25, 1953. Class 21.

Eutectic Welding Alloys Corporation, New York, N. Y. Resin containing composition for coating metal surfaces. 582,743, Nov. 24; Serial No. 630,486, published Aug. 18, 1953. Class 16.

Eutectic Welding Alloys Corporation, New York, N. Y. Electrical cutting, gouging, heating and blasting tool. 582,849, Nov. 24; Serial No. 641,374, published Aug. 25, 1953. Class 21.

Eutectic Welding Alloys Corporation, New York, and Flushing, N. Y. Copper base alloy. 582,891, Nov. 24; Serial No. 643,146, published Aug. 18, 1953. Class 14.

Eveready Briksaw Company, Chicago, Ill. Power driven apparatus. 583,019, Nov. 24; Serial No. 636,226. Class 23.

Eversharp, Inc., Chicago, Ill. Pens and pencils. 582,863, Nov. 24; Serial No. 641,833, published July 21, 1953. Class 37.

Exquisite Gem Company, Chicago, Ill. Synthetic gems. 582,754, Nov. 24; Serial No. 631,279, published May 19, 1953. Class 28.

Faber-Castell, A. W. Pencil Co., Inc., Newark, N. J., assignor to A. W. Faber-Castell, Stein bei Nuremberg, West Germany. Carbon paper, writing and drawing ink, typewriter ribbons, etc. 582,808, Nov. 24; Serial No. 639,027, published Aug. 18, 1953. Class 11.

Faith Co., The: *See*—
Levy, Morris.

Family Flour Institute, Inc., Nashville, Tenn. Self-rising corn meal and self rising corn meal mix. 582,993, Nov. 24; Serial No. 640,556, published Aug. 18, 1953. Class 46.

Farina, Orlando E., Stockton, Calif. Fresh grapes. 362,809, Nov. 29, 1938. Republished Nov. 24. Class 46.

Feldan Brothers, New York, N. Y. Hosiery. 582,830, Nov. 24; Serial No. 640,202, published Aug. 25, 1953. Class 39.

Ferguson, Edgar A., Jr., Brooklyn, N. Y. Analgesic and gastric sedative. 582,658, Nov. 24; Serial No. 615,634, published Aug. 18, 1953. Class 18.

Ferguson, J. L., Company, Joliet, Ill. Packaging machinery, container opening apparatus, container loading apparatus, etc. 582,592–3, Nov. 24; Serial Nos. 527,493–4, published July 7, 1953. Class 23.

Fiberesin Plastics Company, Oconomowoc, Wis. Laminated plastic sheets, panels, strips, blocks, etc. 582,647, Nov. 24; Serial No. 611,173, published July 21, 1953. Class 1.

Firestone Tire & Rubber Company, The, Akron, Ohio. Tire covers, brake lining, gaskets, hose, etc. 306,085, renewed Sept. 5, 1953. O. G. Nov. 24. Class 35.

Fit-O-Be Company: *See*—
Peterson, Hilbert W.

Flamingo Spring Water Company: *See*—
Flamingo Water Company.

Flamingo Water Company, also doing business as Flamingo Spring Water Company, New Smyrna Beach, Fla. Non-effervescent bottled mineral spring water. 582,742, Nov. 24; Serial No. 630,406, published Aug. 11, 1953. Class 45.

Flanagan, John M., doing business as Dorr Candies, Sioux City, Iowa. Candies. 583,026, Nov. 24; Serial No. 649,087. Class 103.

Flintkote Company, The, New York, N. Y. Paperboard boxes. 583,018, Nov. 24; Serial No. 635,958. Class 2.

Foilcraft Printing Corporation, Brooklyn, N. Y. Plain and paper-backed foil products. 582,753, Nov. 24; Serial No. 631,207, published Aug. 4, 1953. Class 37.

Foley & Company, Chicago, Ill. Diaper rash ointment. 582,875, Nov. 24; Serial No. 642,135, published Aug. 11, 1953. Class 18.

Food Machinery and Chemical Corporation, San Jose, Calif. Acetyl peroxide, ammonium persulfate, barium nitrate, etc. 582,967, Nov. 24; Serial No. 645,299, published Sept. 1, 1953. Class 6.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 582,966, Nov. 24; Serial No. 645,133, published Aug. 25, 1953. Class 42.

Fox Head Brewing Co., Waukesha, Wis. Beer. 582,894, Nov. 24; Serial No. 643,213, published Aug. 18, 1953. Class 48.

Foxboro Company, The, Foxboro, Mass. Industrial process instruments for the control, recording or indication of process variables. 582,642, Nov. 24; Serial No 609,854, published Aug. 25, 1953. Class 26.

Franklin Process Company, Providence, R. I. Dyeing machines. 94,900, re-renewed Jan. 13, 1954. O. G. Nov. 24. Class 23.

Fraser Paper, Limited, Madawaska, Maine. Opaque circular printing papers. 582,898, Nov. 24; Serial No. 636,473, published Aug. 4, 1953. Class 37.

Fraser, Sandy, Limited, Manchester, England. Scotch whisky. 582,936, Nov. 24; Serial No. 638,873, published Aug. 11, 1953. Class 49.

Frosst, Charles E., & Co., Montreal, Quebec, Canada. Pharmaceutical preparation. 582,641, Nov. 24; Serial No. 609,793, published Aug. 11, 1953. Class 18.

Fry Brothers Co., The, Cincinnati, Ohio. Chemical compounds for dry cleaning. 582,635, Nov. 24; Serial No. 607,948, published Aug. 18, 1953. Class 52.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 582,970, Nov. 24; Serial No. 645,797, published Sept. 1, 1953. Class 42.

Furs by Robert, Detroit, Mich. Fur garments and women's apparel. 582,602, Nov. 24; Serial No. 569,751, published Aug. 25, 1953. Class 39.

Fyfe, R. H., & Co., Detroit, Mich. Children's boots, shoes, and slippers. 582,882, Nov. 24; Serial No. 642,512, published Aug. 4, 1953. Class 39.

Gate City Sash and Door Company, Fort Lauderdale, Fla. Window units. 582,736, Nov. 24; Serial No. 629,012, published July 28, 1953. Class 12.

Gem Jewelry Company of Beaumont, Inc., Beaumont, Tex. Diamond rings. 582,916, Nov. 24; Serial No. 637,868, published July 21, 1953. Class 28.

General Electric Company, Schenectady, N. Y. Phonograph styli. 582,626, Nov. 24; Serial No. 601,262, published Sept. 1, 1953. Class 36.

Gerber, J., & Co., Inc., New York, N. Y. Wooden doors and windows. 582,950, Nov. 24; Serial No. 643,901, published July 21, 1953. Class 12.

Germaine Monteil Cosmetiques Corporation, New York, N. Y. Lipstick and cream rouge. 582,714, Nov. 24. Serial No. 627,398, published July 21, 1953. Class 51.

Glesby, David, doing business as Glesby Grain & Milling Co., Van Nuys, Calif. Poultry feed. 582,997, Nov. 24; Serial No. 584,492. Class 46.

Glesby Grain & Milling Co.: *See*—
Glesby, David.

Glover Mineral Products, Inc., Kenbridge, Va. Mineral oil for use on tobacco plants. 583,013, Nov. 24; Serial No. 631,350. Class 6.

Guinness, Arthur, Son & Co. (Dublin) Limited: *See*—
Hall, T. B., & Co., Limited.

Gunnison Homes, Incorporated, New Albany, Ind. Prefabricated homes. 582,892, Nov. 24; Serial No. 643,159, published July 21, 1953. Class 12.

Hall, T. B., & Co., Limited, Liverpool, England, by Arthur Guinness, Son & Co (Dublin) Limited, Dublin, Ireland. Malt beverages. 306,513, Sept. 19, 1933. Republished Nov. 24. Class 48.

Harbison-Walker Refractories Company, Pittsburgh, Pa. High duty fireclay refractory brick. 582,890, Nov. 24; Serial No. 643,096, published July 21, 1953. Class 12.

Hardtmuth, L. & C., Inc., Bloomsbury, N. J. Pencils. 582,786, Nov. 24; Serial No. 634,465, published July 28, 1953. Class 37.

Hargrove Company, The, Minneapolis, Minn. Liquid chemical. 582,935, Nov. 24; Serial No. 638,797, published Aug. 25, 1953. Class 6.

Harodite Finishing Company, Inc., The, North Dighton, Mass. Textile piece goods. 582,832, Nov. 24; Serial No. 640,398, published Sept. 1, 1953. Class 42.

Harper, I. W., Distilling Company: *See*—
Schenley Distillers, Inc.

Harris, D. P., Hardware & Manufacturing Co., Inc., New York, N. Y. Roller skates. 582,625, Nov. 24; Serial No. 599,566, published Sept. 1, 1953. Class 22.

Harrison Brothers, New York, N. Y. Church garments. 582,859, Nov. 24; Serial No. 641,724, published Aug. 25, 1953. Class 39.

Harrower Laboratory, Inc., The, Jersey City, N. J. Antihistamine-analgesic preparation. 582,884, Nov. 24; Serial No. 642,548, published Aug. 25, 1953. Class 18.

Harte & Co. Inc., New York, N. Y. Waterproof piece goods. 404,888, Dec. 28, 1943. Republished Nov. 24. Class 42.

Harte & Co. Inc., New York, N. Y. Thin, transparent or translucent sheets or films of vinyl resin plastic. 441,303, Nov. 16, 1948. Republished Nov. 24. Class 42.

Hartwell Brothers, Memphis, Tenn. Handles for tools. 309,040, renewed Dec. 26, 1953. O. G. Nov. 24. Class 23.

Harvey, G. F., Company, The, Saratoga Springs, N. Y. Liquid medicinal preparation. 582,771, Nov. 24; Serial No. 632,707, published Jan. 20, 1953. Class 18.

Heering, Peter F.: *See*—
Heering, Peter F. S.

Heering, Peter F. S., doing business as P. F. Heering, Copenhagen, Denmark. Liqueurs. 582,595, Nov. 24; Serial No. 545,373, published Aug. 4, 1953. Class 49.

Hempel's, J. C., Skibsfarvefabrik, A/S, Copenhagen, Denmark. Paints and varnishes. 582,760, Nov. 24; Serial No. 631,735, published Aug. 18, 1953. Class 16.

Hemphill Company, Pawtucket, R. I. Textile knitting machines and parts thereof. 582,689, Nov. 24; Serial No 623,713, published July 7, 1953. Class 23.

Hendrick Manufacturing Company, Carbondale, Pa. Perforated metal, for radiator enclosure and stove panels. 583,010, Nov. 24; Serial No. 626,458. Class 34.

Hercules Powder Company, Wilmington, Del. Depilating compound. 300,288, Jun. 10, 1933. Republished Nov. 24. Class 51.

Herman, Charles: *See*—
National Cleanser Products Co., Inc.

Hernandez, Antonio, doing business under the name and style of Kapoot Industries, Los Angeles, Calif. Deodorant cream. 582,726, Nov. 24; Serial No. 629,894, published Aug. 25, 1953. Class 51.

Highlander Sportswear, Inc., New York, N. Y. Men's, women's, boys' and girls' sportswear. 582,911, Nov. 24; Serial No. 637,540, published Aug. 25, 1953. Class 39.

Hilb & Co., Inc., Denver, Colo. Knitted outerwear garments for women, misses and girls. 582,613, Nov. 24; Serial No. 583,692, published Nov. 28, 1950. Class 39.

Holophane Company, Inc., New York, N. Y., and elsewhere in the United States. Illumination equipment. 583,005, Nov. 24; Serial No. 619,941. Class 34.

Holt, George C., Inc.: *See*
Holt Pen Company, The.

Holt Pen Company, The, Crompton, R. I., by change of name from George C. Holt, Inc. Pens and mechanical pencils. 582,614, Nov. 24; Serial No. 584,061, published Aug. 4, 1953. Class 37.

Horseshoes, Inc., New York, N. Y. Candy. 582,872, Nov. 24; Serial No. 642,077, published Aug. 11, 1953. Class 46.

Houbigant: *See*—
Houbigant, Inc.

Houbigant, Inc., doing business as Houbigant, New York, N. Y. Perfume, toilet water, lipstick, etc. 582,929, Nov. 24; Serial No. 638,419, published Aug. 18, 1953. Class 51.

Hoyt Co., Inc.: *See*—
Hoyt, F., & Company, Limited.

Hoyt, F., & Company, Limited, Philadelphia, Pa., by Hoyt Co., Inc., Memphis, Tenn. Perfumery. 46,216, Sept. 12, 1905. Republished Nov. 24. Class 51.

Hughes and Hatcher, Inc., Detroit, Mich. Men's assorted coats and pants. 582,679, Nov. 24; Serial No. 621,266, published Aug. 18, 1953. Class 39.

Hummel, Ludwig, doing business as Durowe Deutsche Uhrenrohwerke L. Hummel & Co., Pforzheim, Germany. Clocks, watches, watch movements, and parts thereof. 582,951, Nov. 24; Serial No. 644,033, published July 28, 1953. Class 27.

Hunneman, John R., Jr., doing business under the name of Whattaspout Mfg. Co., Woburn, Mass. Combined toothbrush and water-deflecting recessed handle. 582,644, Nov. 24; Serial No. 610,691, published Aug. 18, 1953. Class 29.

Incoro, Inc., Kingston, N. Y. Electric coffee roasters. 582,949, Nov. 24; Serial No. 643,763, published Aug. 18, 1953. Class 21.

Indestro Manufacturing Corp., Chicago, Ill. Socket wrenches, socket wrench sets, socket wrench kits, etc. 582,680, Nov. 24; Serial No. 621,267, published June 30, 1953. Class 23.

Industrial Wiping Cloth Co., Inc., Long Island City, N. Y. Industrial wiping cloths. 582,915, Nov. 24; Serial No. 637,776, published Aug. 18, 1953. Class 29.

Innocenti Soc. Generale per l'Industria Metallurgica e Meccanica, Milan, Italy. Automobiles, motor cycles, motor scooters, etc. 582,825, Nov. 24; Serial No. 640,091, published Aug. 4, 1953. Class 19.

Interlock Corporation, New York, N. Y. Connectors for electrical conductors and other current carrying elements, etc. 582,630, Nov. 24; Serial No. 603,929, published Aug. 25, 1953. Class 21.

International Harvester Company, Chicago, Ill. Flux and solder. 582,649, Nov. 24; Serial No. 613,171, published Aug. 18, 1953. Class 14.

International Minerals & Chemical Corporation, Chicago, Ill. Water soluble nitrogenous fraction of sugar beet juice, etc. 582,756, Nov. 24; Serial No. 631,391, published Aug. 11, 1953. Class 18.

International Minerals & Chemical Corporation, Chicago, Ill. Defluorinated phosphate. 582,912, Nov. 24; Serial No. 637,594, published Aug. 4, 1953. Class 18.

International Paper Company, New York, N. Y. Paper bags. 582,724, Nov. 24; Serial No. 628,631, published Aug. 18, 1953. Class 2.

International Silver Company, The: *See*—
American Silver Company, The.

Ivler & Pollack, New York, N. Y. Knitted, netted and textile fabrics. 582,924, Nov. 24; Serial No. 638,363, published Sept. 1, 1953. Class 42.

"J" Chemical Works: *See*—
National Cleanser Products Co., Inc.

Jergens, Andrew, Company, The, Cincinnati, Ohio. Face cream. 506,452, Feb. 8, 1949. Canceled Oct. 9, 1953. O. G. Nov. 24. Class 51. (Formerly Class 6.)

Johns-Manville Corporation, New York, N. Y. Plastic electrical tape. 582,636, Nov. 24; Serial No. 608,043, published May 26, 1953. Class 21.

Johns, Robert P., New York, N. Y. Perfumes and toilet waters. 582,817, Nov. 24; Serial No. 639,572, published Aug. 25, 1953. Class 51.

Johnson & Johnson, New Brunswick, N. J. Prepared bandaging material. 306,367, renewed Sept. 19, 1953. O. G. Nov. 24. Class 44.

Justin, H. J., and Sons, Inc., Fort Worth, Tex. Collapsible cardboard insert for packing boots in boxes. 582,802, Nov. 24; Serial No. 635,266, published Aug. 18, 1953. Class 2.

Juvenile Shoe Corporation of America, The, Aurora, Mo. Tanned leather. 582,631, Nov. 24; Serial No. 607,252, published July 7, 1953. Class 1.

Kalasteel Products Company, Inc., Kalamazoo, Mich. Wheeled container. 582,805, Nov. 24; Serial No. 635,538, published Aug. 25, 1953. Class 2.

Kapoot Industries: *See*—
Hernandez, Antonio.

Kay Electric Company, Pine Brook, N. J. Instrument that functions as a source of microwave signals. 582,718, Nov. 24; Serial No. 627,948, published Aug. 18, 1953. Class 26.

Kay Electric Company, Pine Brook, N. J. Instrument that is a narrow-band sweeping oscillator. 582,719, Nov. 24; Serial No. 627,951, published Aug. 18, 1953. Class 26.

Kelley Manufacturing Company, Houston, Tex. Load transfer units. 582,643, Nov. 24; Serial No. 610,040, published Aug. 18, 1953. Class 12.

Kent-Coffey Manufacturing Company, Lenoir, N. C. Furniture. 582,661, Nov. 24; Serial No. 616,105, published Aug. 25, 1953. Class 32.

Kent-Coffey Manufacturing Company, Lenoir, N. C. Furniture. 582,662, Nov. 24; Serial No. 616,107, published Aug. 25, 1953. Class 32.

Kentile, Inc., Brooklyn, N. Y. Floor tile. 582,889, Nov. 24; Serial No. 642,974, published Aug. 18, 1953. Class 12.

Kerns, J. F., Company, Chicago, Ill. Liquid type paint and varnish remover. 582,688, Nov. 24; Serial No. 623,057, published Jan. 6, 1953. Class 52.

Kiwad, Isadore, doing business under the name of Pedi-Pads Manufacturing Co., Paterson, N. J. Toe protectors. 583,006, Nov. 24; Serial No. 620,346. Class 44.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 307,122, Oct. 17, 1933. Republished Nov. 24. Class 40.

Knapp Brothers Shoe Manufacturing Corporation, Brockton, Mass., and Lewiston, Maine. Men's, women's and children's shoes. 582,932, Nov. 24; Serial No. 638,719, published Aug. 4, 1953. Class 39.

Knight, John P., doing business under the name and style of National Stellar Company, Detroit, Mich. Typewriter and adding machine ribbons, carbon paper, ink conducting wicks and holders therefor, etc. 582,671, Nov. 24; Serial No. 619,300, published Aug. 18, 1953. Class 11.

Koppers Company, Inc., Pittsburgh, Pa. Insecticides. 582,728, Nov. 24; Serial No. 629,738, published Aug. 25, 1953. Class 6.

Koppers Company, Inc., Pittsburgh, Pa. Polystyrene. 582,774, Nov. 24; Serial No. 632,991, published Aug. 25, 1953. Class 6.

Kromex Corporation, Cleveland, Ohio. Canister sets, bread boxes, chef sets, etc. 582,687, Nov. 24; Serial No. 622,599, published Aug. 18, 1953. Class 2.

Laboratories Laroche Navarron, Levallois-Perret, Seine, France. Pharmaceutical products. 582,660, Nov. 24; Serial No. 615,982, published Aug. 18, 1953. Class 18.

Laboratory Furniture Co., Inc., Mineola, N. Y. Electrical receptacles and switch mountings. 582,683, Nov. 24; Serial No. 621,627, published Aug. 25, 1953. Class 21.

Lady Mary, Incorporated, Rockingham, N. C. Ornamental paper pastry boards. 582,650, Nov. 24; Serial No. 613,174, published Aug. 25, 1953. Class 37.

Lakeside Central Company, Chicago, Ill. Boxed writing paper and correspondence envelopes and combination packages of sheet writing paper, etc. 582,821, Nov. 24; Serial No. 639,758, published Aug. 4, 1953. Class 37.

Lambert Company, The, doing business as John Hudson Moore Co., Jersey City, N. J., and New York, N. Y. Solidified after shaving lotion, cologne and deodorant. 582,741, Nov. 24; Serial No. 630,137, published July 28, 1953. Class 51.

Lanman & Kemp-Barclay & Co., Incorporated: *See*—
Barclay & Barclay.

Lapp Insulator Company, Inc., Le Roy, N. Y. Electric insulators, and electric condensers. 582,766, Nov. 24; Serial No. 631,992, published Aug. 25, 1953. Class 21.

Larus & Brother Company, Richmond, Va. Tobacco and tobacco products. 582,705, Nov. 24; Serial No. 625,856, published Aug. 25, 1953. Class 17.

Le Bon-Carew, Hollywood, Calif. Paper adhesive strips. 582,809, Nov. 24; Serial No. 639,058, published Aug. 25, 1953. Class 44.

Lebow, Victor, New York, N. Y. Combination slipper and sock. 538,764, Feb. 27, 1951. Canceled Oct. 9, 1953. O. G. Nov. 24. Class 39.

Lehn & Fink, Inc., to Lehn & Fink Products Corporation, Bloomfield, N. J. Preparation recommended as a cleansing agent. 309,193, renewed Jan. 9, 1954. O. G. Nov. 24. Class 52.

Lehn & Fink Products Corporation: *See*—
Lehn & Fink, Inc.

Levy, Albert, to Ardath Tobacco Company, Limited, London, England. Smoking-tobacco and cigarettes. 41,221, re-renewed Oct. 6, 1953. O. G. Nov. 24. Class 17.

Levy, Albert, to Ardath Tobacco Company, Limited, London, England. Smoking-tobacco and cigarettes. 41,324, re-renewed Oct. 20, 1953. O. G. Nov. 24. Class 17.

Levy, Morris, doing business as The Faith Co., Philadelphia, Pa. Electrical fire alarm signal stations. 582,710, Nov. 24; Serial No. 627,072, published July 28, 1953. Class 21.

Libn, Manuel M., doing business as Clementon Hosiery Mill, Clementon, N. J. Ladies' nylon hosiery. 582,664, Nov. 24; Serial No. 616,915, published Aug. 18, 1953. Class 39.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation of multiple vitamins. 582,905, Nov. 24; Serial No. 637,064, published Aug. 25, 1953. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 582,933, Nov. 24; Serial No. 638,728, published July 28, 1953. Class 18.

Lind, Farris C., Boise, Idaho. Gasoline filling station services. 582,983, Nov. 24; Serial No. 630,422, published Aug. 18, 1953. Class 103.

Liquid Veneer Corporation, Buffalo, N. Y. Glazed china containers. 582,676, Nov. 24; Serial No. 620,426, published July 28, 1953. Class 30.

Lockheed Aircraft Corporation, Burbank, Calif. Airplanes and structural parts therefor. 582,787, Nov. 24; Serial No. 634,475, published Aug. 25, 1953. Class 19.

Longines-Wittnauer Watch Co., Inc., New York, N. Y. Watches and clocks and parts thereof. 582,598, Nov. 24; Serial No. 551,287, published Sept. 6, 1949. Class 27.

Lower Third Supply Company: *See*—
McDonald, Forrest R.

Luma-Rim Corporation, Oakland, Calif. Luminous safety device. 583,009, Nov. 24; Serial No. 625,812. Class 34.

Macalaster Bicknell Parenteral Corporation, The, Cambridge, Mass. Hypodermic-needle washer units, hypodermic-needle rinser units, etc. 582,897, Nov. 24; Serial No. 636,425, published Aug. 25, 1953. Class 44.

MacDonald, Greenlees Limited, Leith, Edinburgh, Scotland. Scotch whisky. 582,775, Nov. 24; Serial No. 633,313, published Aug. 11, 1953. Class 49.

MacGregor Sport Products Inc.: *See*—
Sport Products, Inc.

Mac-It Parts Company, Lancaster, Pa. Screws. 91,886, June 3, 1913. Corrected. O. G. Nov. 24. Class 13.

Macklntosh, John, & Sons Limited, Halifax, England. Mint-flavoured candy. 582,801, Nov. 24; Serial No. 635,228, published May 26, 1953. Class 46.

Macy, R. H., & Co., Inc., New York, N. Y. Leather shoes, men's and boys' suits, outer shirts, and pajamas. 582,596, Nov. 24; Serial No. 546,227, published Aug. 11, 1953. Class 39.

Mallard Pencil Co Inc., Georgetown, Ky. Wood cased lead pencils. 582,708, Nov. 24; Serial No. 626,807, published Aug. 18, 1953. Class 37.

Management Service Publications, Inc., New York, N. Y. Periodical. 582,958, Nov. 24; Serial No. 644,508, published Aug. 25, 1953. Class 38.

Mangels, Arthur C., Industries, Philadelphia, Pa. Paint enamels. 582,627, Nov. 24; Serial No. 601,330, published Aug. 18, 1953. Class 16.

Maple Producers Co-Operative Association, Inc., Gouverneur, N. Y. Maple sugar and maple syrup. 582,722, Nov. 24; Serial No. 628,593, published June 30, 1953. Class 46.

Marbon Corporation, Gary, Ind. Styrene butadiene copolymer resins. 582,652, Nov. 24; Serial No. 613,414, published Aug. 25, 1953. Class 6.

Marcalus Manufacturing Co. Inc., East Paterson, N. J. Paper tissue handkerchiefs. 582,682, Nov. 24; Serial No. 621,475, published Aug. 18, 1953. Class 37.

Marcalus Manufacturing Co. Inc., East Paterson, N. J. Paper handkerchiefs. 582,691, Nov. 24; Serial No. 623,866, published Aug. 25, 1953. Class 37.

Marco Pet Food Co., Huntington Park, Calif. Canned dog and cat food. 582,835–6, Nov. 24; Serial Nos. 640,641–2, published May 26, 1953. Class 46.

Marvin Manufacturing Company: *See*—
Dijam Enterprises Inc.

Maryland Baking Company, The, Baltimore, Md. Ice cream cones. 582,803, Nov. 24; Serial No. 635,483, published Aug. 18, 1953. Class 46.

Massachusetts Mattress Company, Boston, Mass. Mattresses and box springs. 582,607, Nov. 24; Serial No. 575,153, published Aug. 25, 1953. Class 32.

Mathieson Chemical Corporation: *See*—
Squibb, E. R., & Sons.

Mathieson Chemical Corporation, New York, N. Y. Dermatological preparation. 582,838, Nov. 24; Serial No. 640,685, published Aug. 25, 1953. Class 18.

Mayer Company, Inc., The, also known as The Mayer Co., Inc., New York, N. Y. Women's and misses' hosiery. 582,813, Nov. 24; Serial No. 639,432, published July 28, 1953. Class 39.

Mayer Co., Inc., The: *See*—
Mayer Company, Inc., The.

McCabe, Walter A., doing business as Walter A McCabe Company, East Haddam, Conn. Transparent plastic covers. 582,700, Nov. 24; Serial No. 625,429, published Aug. 18, 1953. Class 37.

McCabe, Walter A., Company: *See*—
McCabe, Walter A.

McDonald, Forrest R., doing business as Lower Third Supply Company, Alexander, La. Pulverized stone-aggregate mixture. 582,733, Nov. 24; Serial No. 629,373, published July 21, 1953. Class 12.

McPherson Helghts Citrus Association, McPherson, to Consolidated Orange Growers, Orange, Calif. Citrus fruits. 95,223–4, re-renewed Feb. 3, 1954. O. G. Nov. 24. Class 46.

Mead Johnson & Company, Evansville, Ind. Pharmaceutical preparations. 582,794, Nov. 24; Serial No. 634,985, published Aug. 18, 1953. Class 18.

Mechanical Products, Inc., Jackson, Mich. Manually resettable, electric circuit interrupter. 582,744, Nov. 24; Serial No. 630,715, published Aug. 25, 1953. Class 21.

Mets, Keith, Grower and Shipper, Holtville, Calif. Fresh vegetables. 582,703, Nov. 24; Serial No. 625,740, published Aug. 11, 1953. Class 46.

Metz Pharmacal Company, Linden, N. J. Medicinal preparation. 582,796, Nov. 24; Serial No. 635,046, published June 9, 1953. Class 18.

Micamold Radio Corporation, Brooklyn, N. Y. Electrical capacitors. 582,952, Nov. 24; Serial No. 644,047, published Aug. 25, 1953. Class 21.

Micro Balancing, Incorporated, Garden City Park, N. Y. Light-sensitive electro-mechanical switch. 582,843, Nov. 24; Serial No. 640,948, published Aug. 25, 1953. Class 21.

Mikulas, M. M., doing business under the name of Mylans, San Francisco, Calif. Hair oil, an all purpose skin cream, toilet water, etc. 582,917, Nov. 24; Serial No. 638,008, published Aug. 18, 1953. Class 51.

Millway Knitting Mills, Inc., Millway, Pa. Ladies' hosiery. 582,848, Nov. 24; Serial No. 641,318, published Aug. 18, 1953. Class 39.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Magnetic tape. 582,954, Nov. 24; Serial No. 644,243, published Aug. 25, 1953. Class 21.

Mitchell, Harry, Brewing Company, El Paso, Tex. Beer. 582,712, Nov. 24; Serial No. 627,210, published Aug. 4, 1953. Class 48.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resins. 582,601, Nov. 24; Serial No. 566,638, published Aug. 11, 1953. Class 6.

Moore, Benjamin, & Co., New York, N. Y. Stains and enamels. 582,755, Nov. 24; Serial No. 631,362, published Aug. 18, 1953. Class 16.

Moore, John Hudson, Co.: *See*—
Lambert Company, The.

Morgan, George T., doing business as Nu-Ay Pile Compound Co., Sharon, Pa. Medical preparation. 582,668, Nov. 24; Serial No. 618,905, published Aug. 11, 1953. Class 18.

Mylans: *See*—
Mikulas, M. M.

N. V. Nederlandsche Machinefabriek "Artillerie Inrichtingen", Hembrug, Zaandam, Netherlands. Farm trailers. 582,678, Nov. 24; Serial No. 621,081, published Sept. 1, 1953. Class 19.

Nash-Underwood, Inc., Chicago, Ill. Chocolate flavored peanut butter. 582,638, Nov. 24; Serial No. 608,714, published June 30, 1953. Class 46.

National Chinchilla Breeders of America, Incorporated, Salt Lake City, Utah. Live chinchillas. 582,991, Nov. 24; Serial No. 619,209, published July 21, 1953. Class 1.

National Cleanser Products Co., Inc., assignor to C. Herman, doing business as "J" Chemical Works, New York, N. Y. Alkali cleanser. 582,920–1, Nov. 24; Serial Nos. 638,151–2, published Aug. 18, 1953. Class 52.

National NuGrape Company, Atlanta, Ga. Flavoring syrups and concentrates. 582,617, Nov. 24; Serial No. 589,133, published July 24, 1951. Class 45.

National Stellar Company: *See*—
Knight, John P.

National Superior Fur Dressing & Dyeing Co., Chicago, Ill. Cleaning furs, fur garments and the linings thereof. 582,985, Nov. 24; Serial No. 634,702, published Aug. 18, 1953. Class 103.

National Water Main Cleaning Company, New York, N. Y. Maintenance and cleaning of pipe lines, etc. 582,977, Nov. 24; Serial No. 532,047, published Aug. 25, 1953. Class 103.

Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow cases. 582,876, Nov. 24; Serial No. 642,155, published Sept. 1, 1953. Class 42.

NEA Service, Inc., Cleveland, Ohio. Comic strip. 309,251, renewed Jan. 9, 1954. O. G. Nov. 24. Class 38.

Neesen Trading Company, Inc., New York, N. Y. Cured hams. 582,913, Nov. 24; Serial No. 637,605, published Aug. 25, 1953. Class 46.

Neesen Trading Company, Inc., New York, N. Y. Cured hams. 582,923, Nov. 24; Serial No. 638,268, published Aug. 25, 1953. Class 46.

Newbro Manufacturing Company, Atlanta, Ga., assignor to Sulfur-8 Chemical Co., Inc., Brooklyn, N. Y. Preparation for use on the hair and scalp. 582,690, Nov. 24; Serial No. 623,774, published Oct. 28, 1952. Class 51.

Nips, Inc., New York, N. Y. Solutions of smelling salts. 582,634, Nov. 24; Serial No. 607,759, published Aug. 18, 1953. Class 18.

Nonaka, F. M., & Co.: *See*—
Nonaka, Frank M.

Nonaka, Frank M., doing business as F. M. Nonaka & Co., San Francisco, Calif. Rice and tea. 582,842, Nov. 24; Serial No. 640,890, published May 26, 1953. Class 46.

North Star Woolen Mill Company, Lima, Ohio. Blankets. 582,959, Nov. 24; Serial No. 644,564, published Aug. 25, 1953. Class 42.

Nozaki Bros. & Co., Ltd., Yokohama, Japan, vested in the Attorney General of the United States, Washington, D. C. Canned crabs, canned tuna, canned clams, etc. 306,862, renewed Oct. 3, 1953. O. G. Nov. 24. Class 46.

Nu-Ay Pile Compound Co.: *See*—
Morgan, George T.

Nuclear Development Associates, Inc., White Plains, N. Y. Technical research, development, design and consultant services. 582,979, Nov. 24; Serial No. 607,295, published Aug. 18, 1953. Class 100.

Nuodex Products Co., Inc., Elizabeth, N. J. Driers for ready mixed paints, enamels, varnishes, etc. 582,901, Nov. 24; Serial No. 636,860, published Aug. 18, 1953. Class 16.

Oakley, Annie, Enterprises, Inc., Los Angeles, Calif. Umbrellas. 582,914, Nov. 24; Serial No. 637,742, published July 28, 1953. Class 41.

Oval Manufacturing Company, Inc., New York, N. Y. Articles of jewelry. 582,697, Nov. 24; Serial No. 625,292, published July 21, 1953. Class 28.

Paper Products Co.: *See*—
Smith, Omer J.

Paramount Aluminum Products Corp., Mineola, N. Y. Storm windows. 582,957, Nov. 24; Serial No. 644,343, published July 21, 1953. Class 12.

Paramount Paper Products Company, Omaha, Nebr. Labels. 582,701, Nov. 24; Serial No. 625,490, published Aug. 11, 1953. Class 37.

Parfums Evyan Co.: *See*—
Parfums Evyan Inc.

Parfums Evyan, Inc.: *See*—
Blake, Irene, Cosmetics, Inc.
Consolidated Cosmetics.

Parfums Evyan Inc., assignee of E. Westall, doing business as Parfums Evyan Co., by Parfums Evyan, Inc., New York, N. Y. Perfume, toilet water and cologne. 444,506, June 5, 1951. Republished Nov. 24. Class 51.

Park and Pollard Company, Inc., Buffalo, N. Y. Dairy feeds. 582,806, Nov. 24; Serial No. 635,783, published May 26, 1953. Class 46.

Parke, Davis & Company, Detroit, Mich. Chemo-therapeutic agent. 582,820, Nov. 24; Serial No. 639,713, published Aug. 11, 1953. Class 18.

Pastene & Co., Inc., New York, N. Y. Edible salad and cooking oils, coffee, canned fish, etc. 582,605, Nov. 24; Serial No. 572,323, published June 30, 1953. Class 46.

Patchogue-Plymouth Mills Corporation, New York, N. Y. Woven fibre rugs, woven fibre draperies, and fabrics 582,955, Nov. 24; Serial No. 644,252, published Sept. 1, 1953. Class 42.

Pedi-Pads Manufacturing Co.: *See*—
Kiwad, Isadore.

Pemco Corporation: *See*—
Porcelain Enamel and Manufacturing Company of Baltimore.
Porcelain Enamel and Manufacturing Company of Baltimore, The.

Pemco Corporation, Baltimore, Md. Acid resistant porcelain enamel frits. 436,149, Jan. 27, 1948. Republished Nov. 24. Class 1.

Penick, S. B., & Company, New York, N. Y. Bulk feed supplement. 582,792, Nov. 24; Serial No. 634,706, published Aug. 18, 1953. Class 18.

Pepperell Manufacturing Company, Boston, Mass. Blankets. 582,961, Nov. 24; Serial No. 644,686, published Aug. 25, 1953. Class 42.

Perfection Biscuit Company, Fort Wayne, Ind. Cakes and cookies. 93,903, re-renewed Oct. 21, 1953. O. G. Nov. 24. Class 46.

Peters, Leo, Evanston, Ill. Ice cream, butter and margarine. 583,016, Nov. 24; Serial No. 633,119. Class 46.

Peterson, Hilbert W., doing business under the name and style of Fit-O-Be Company, Omaha, Nebr. Portfolios. 582,906, Nov. 24; Serial No. 637,208, published Aug. 25, 1953. Class 3.

Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Corn remover in liquid form, medicated corn, bunion, and callous pads, etc. 308,927, renewed Dec. 26, 1953. O. G. Nov. 24. Class 18.

Pfeiffer, S., Manufacturing Co., St. Louis, Mo. Medicinal tonic. 582,824, Nov. 24; Serial No. 640,049, published Aug. 18, 1953. Class 18.

Pfizer, Chas., & Co., Inc.: *See*—
Roerig, J. B., and Company.

Philadelphia, Inc., The, South Bend, Ind. Candy. 583,001, Nov. 24; Serial No. 608,623. Class 46.

Phillips & Benjamin Company, The, Boston, Mass., to Wernet Dental Mfg. Co., Inc., Jersey City, N. J. Artificial denture cleansers. 310,067, renewed Feb. 13, 1954. O. G. Nov. 24. Class 51.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. 582,855, Nov. 24; Serial No. 641,570, published July 28, 1953. Class 18.

Pickering, William B., Jr., Columbus, Ohio. Roasted coffee. 582,615, Nov. 24; Serial No. 584,834, published June 5, 1951. Class 46.

Pioneer Electric and Research Corporation, The, Chicago and Forest Park, Ill. Electrical follow-up intelligence transmitting, and/or receiving apparatus. 583,999, Nov. 24; Serial No. 693,438. Class 21.

Pittsburgh Brewing Company, Pittsburgh, Pa. Beer. 582,833, Nov. 24; Serial No. 640,525, published Aug. 4, 1953. Class 48.

Playnurse, Inc., Baltimore, Md. Children's suits and dresses. 582,749, Nov. 24; Serial No. 630,910, published Aug. 18, 1953. Class 39.

Plymouth Cordage Company, Plymouth, Mass. Hard fibre rope. 308,264, Nov. 28, 1933. Republished Nov. 24. Class 7.

Plymouth Cordage Company, Plymouth, Mass. Hard fibre rope. 308,267, Nov. 28, 1933. Republished Nov. 24. Class 7.

Pope Laboratories: *See*—
Capital Drug Company.

Porcelain Enamel and Manufacturing Company: *See*—
Porcelain Enamel and Manufacturing Company of Baltimore.

Porcelain Enamel and Manufacturing Company, The: *See*—
Porcelain Enamel and Manufacturing Company of Baltimore.

Porcelain Enamel and Manufacturing Company of Baltimore, The, by Pemco Corporation, Baltimore, Md. Enamel frits, oxides and opacifiers. 329,748, Nov. 12, 1935. Republished Nov. 24. Class 1.

Porcelain Enamel and Manufacturing Company of Baltimore, The, doing business as The Porcelain Enamel and Manufacturing Company, by Pemco Corporation, Baltimore, Md. Porcelain enamel frits. 383,336, Dec. 3, 1940. Republished Nov. 24. Class 1.

Porcelain Enamel and Manufacturing Company of Baltimore, The, doing business as The Porcelain Enamel and Manufacturing Company, by Pemco Corporation, Baltimore, Md. Porcelain enamel frits. 387,742, May 27, 1941. Republished Nov. 24. Class 1.

Port Fertilizer & Chemical Company, Los Fresnos, Tex. Fertilizers. 582,893, Nov. 24; Serial No. 643,184, published Sept. 1, 1953. Class 10.

Portable Electric Tools, Inc., Chicago, Ill. Electrically-operated portable spraying apparatus. 582,857, Nov. 24; Serial No. 641,637, published Aug. 25, 1953. Class 21.

Posner, Dr. A., Shoes, Inc.: *See*—
Posner, Abraham.

Posner, Abraham, to Dr. A. Posner Shoes, Inc., New York, N. Y. Leather shoes. 91,690, re-renewed May 20, 1953. O. G. Nov. 24. Class 39.

Poznak, Murray P. doing business as Acrolite International, Elizabeth, N. J. Acrylic plastic used for waterproofing protecting and preserving masonry, etc. 582,793, Nov. 24; Serial No. 634,911, published Aug. 18, 1953. Class 16.

Premier Dental Products Co., Philadelphia, Pa. Disposable paper towels and paper bracket table covers. 582,931, Nov. 24; Serial No. 638,659, published July 14, 1953. Class 37.

Progressive Products, assignor to Progressive Products, Inc., La Mesa, Calif. Teething aid. 583,012, Nov. 24; Serial No. 630,283. Class 44.

Progressive Products, Inc.: *See*—
Progressive Products.

Pyramid Electric Company, North Bergen, N. J. Capacitors. 583,015, Nov. 24; Serial No. 632,851. Class 21.

Quality Chekd Dairy Products Association, Chicago, Ill. Frozen dairy dessert. 582,992, Nov. 24; Serial No. 625,124, published June 30, 1953. Class 46.

Radio Dollars, Inc., Washington, D. C. Sales promotion of radio advertisers' goods and services. 582,981, Nov. 24; Serial No. 623,911, published Aug. 25, 1953. Class 101.

Rand McNally & Company, Skokie, Ill. Check register forms and pocket filing sheets. 582,880, Nov. 24; Serial No. 642,491, published Aug. 11, 1953. Class 37.

Reclu Sales Company, Vancouver, British Columbia, Canada. Pharmaceutical preparation. 582,839, Nov. 24; Serial No. 640,758, published Aug. 11, 1953. Class 18.

Red-Ee Foods, Inc., now by change of name, Cinch Products, Inc., by Cinch Products, Inc., Los Angeles, Calif. Hot cake mix, corn bread mix, waffle mix and cake mix. 444,704, July 22, 1952. Republished Nov. 24. Class 46.

Red-Ee Foods, Inc., now by change of name, Cinch Products, Inc., by Cinch Products, Inc., Los Angeles, Calif. Fudge mix, hot cake mix, corn bread mix, etc. 444,738, Nov. 18, 1952. Republished Nov. 24. Class 46.

Refiners Marketing Company, Ltd., Los Angeles, Calif. Lubricating oil. 583,011, Nov. 24; Serial No. 628,825. Class 15.

Reisch, Albert, doing business as Springfield Auto Supply Company, to Springfield Auto Supply Company, Springfield, Ill. Vehicle batteries, battery cables, insulated wire, etc. 297,702, renewed Sept. 27, 1952. O. G. Nov. 24. Class 21.

Replacement Unit Company, Cleveland, Ohio. Automotive clutch units, clutch pressure assemblies, clutch plates, etc. 582,651, Nov. 24; Serial No. 613,239, published July 7, 1953. Class 23.

Rex, Clarence R., Toledo, Ohio. Fertilizers. 583,007, Nov. 24; Serial No. 624,502. Class 10.

Reynolds Manufacturing Company, Springfield, Mo. Brake drums, and resilient axle suspensions for automotive trucks and trailers. 582,666, Nov. 24; Serial No. 617,931, published Sept. 1, 1953. Class 19.

Riegel Paper Corporation, New York, N. Y. Kraft, sulphite, and glassine paper. 582,782, Nov. 24; Serial No. 634,344, published July 14, 1953. Class 37.

Riegel Textile Corporation, by Riegel Textile Corporation, New York, N. Y. Cotton piece goods. 308,732, Dec. 19, 1933. Republished Nov. 24. Class 39.

Riegel Textile Corporation, by Riegel Textile Corporation, New York, N. Y. Cotton piece goods. 308,802, Dec. 19, 1933. Republished Nov. 24. Classes 39 and 42.

Rinshed-Mason Company, Detroit, Mich. Lacquer base putty. 582,695, Nov. 24; Serial No. 624,797, published Aug. 25, 1953. Class 12.

Robbin, Meyer, doing business as Robbin Products, Los Angeles, Calif. Wrist watches. 582,776, Nov. 24; Serial No. 633,467, published July 28, 1953. Class 27.

Robbin Products: *See*—
Robbin, Meyer.

Roberts, Herbert L., doing business as Roberts, Columbus, Ohio. Women's and girls' wearing apparel. 582,594, Nov. 24; Serial No. 527,789, published Aug. 25, 1953. Class 39.

Roberts Turkey Brand Corned Meats, San Francisco, Calif. Uncooked cuts of corned beef and uncooked cuts of corned pork. 582,611, Nov. 24; Serial No. 580,354, published June 30, 1953. Class 46.

Robertson Bros. & Co. Limited, to Geo. G. Sandeman Sons & Co Limited, London, England. Wines. 306,233–5, renewed Sept. 12, 1953. O. G. Nov. 24. Class 47.

Robertson Bros. & Co. Limited, to Geo. G. Sandeman Sons & Co. Limited, London, England. Port wine. 307,436, renewed Oct. 24, 1953. O. G. Nov. 24. Class 47.

Roerig, J. B., and Company, Chicago, Ill., assignor to Chas. Pfizer & Co., Inc., New York, N. Y. Medicinal preparation. 582,639, Nov. 24; Serial No. 609,219, published Aug. 11, 1953. Class 18.

Roma Wine Company: *See*—
Schenley Industries, Inc.

Ross, Will, Inc., Milwaukee, Wis. Articles made of paper. 582,747, Nov. 24; Serial No. 630,797, published Aug. 4, 1953. Class 37.

Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Asbestos-cement siding. 582,918, Nov. 24; Serial No. 638,105, published July 28, 1953. Class 12.

Rubinstein, Charles L., doing business as Ruby Products Co., Milwaukee, Wis. Paper products. 582,707, Nov. 24; Serial No. 626,749, published July 14, 1953. Class 37.

Ruby Products Co.: *See*—
Rubinstein, Charles L.

Rumianca, S. P. A., Turin, Italy. Soil conditioner. 582,860, Nov. 24; Serial No. 641,744, published Aug. 25, 1953. Class 10.

S. p. A. Fren-Do, Leumann, Italy. Friction linings. 582,684, Nov. 24; Serial No. 621,684, published Aug. 25, 1953. Class 35.

Saman, Jules, doing business under the name and style of Car-Freshner Co., Watertown, N. Y. Absorbent body impregnated with a perfumed air deodorant. 582,878, Nov. 24; Serial No. 642,372, published Aug. 25, 1953. Class 6.

Sandeman, Geo. G., Sons & Co. Limited: *See*—
Robertson Bros. & Co. Limited.

Sandoz Chemical Works, Inc., New York, N. Y. Dyes. 310,090, renewed Feb. 13, 1954. O. G. Nov. 24. Class 6.

Sandoz Chemical Works, Inc., New York, N. Y. Gloss removing compound. 310,162, renewed Feb. 13, 1954. O. G. Nov. 24. Class 6.

Sartori & Berger: *See*—
Sartori, Charles.

Sartori, Charles, doing business as Sartori & Berger, Hamburg, Germany. Exchangeable rubber heels. 582,861, Nov. 24; Serial No. 641,745, published Aug. 4, 1953. Class 39.

Schmeiser, T. G., assignor by decree of distribution to E. R. Schmeiser, Fresno, Calif. Earth working implements, and specifically roller type soil cultivators and packers. 583,996, Nov. 24; Serial No. 575,787. Class 23.

Schenley Distillers, Inc., New York, N. Y. Whiskey. 582,871, Nov. 24; Serial No. 642,050, published July 28, 1953. Class 49.

Schenley Distillers, Inc., doing business as I. W. Harper Distilling Company, New York, N. Y. Whiskey. 582,886, Nov. 24; Serial No. 642,697, published Aug. 11, 1953. Class 49.

Schenley Industries, Inc., New York, N. Y. Whiskey. 582,713, Nov. 24; Serial No. 627,224, published Aug. 4, 1953. Class 49.

Schenley Industries, Inc., also doing business as Roma Wine Company, doing business as Triangle Vineyards, New York, N. Y. Wines. 582,858, Nov. 24; Serial No. 641,695, published Aug. 18, 1953. Class 47.

Schmeiser, Ethel R.: *See*—
Schmeiser, T. G.

Schoenburg Bros. Produce Company: *See*—
Schoenburg, Paul P.

Schoenburg, Paul P., doing business as Schoenburg Bros. Produce Company, Salinas, Calif. Fresh vegetables. 582,934, Nov. 24; Serial No. 638,780, published May 26, 1953. Class 46.

Schultz, Baujan & Co., to The Beardstown Mills Company, Beardstown, Ill. Wheat flour. 305,907, renewed Aug. 29, 1953. O. G. Nov. 24. Class 46.

Scott, O. M., & Sons Company, Marysville, Ohio. Lawn grass seed. 307,110, renewed Oct. 17, 1953. O. G. Nov. 24. Class 1.

Sealed Power Corporation, Muskegon Heights, Mich. Piston ring expander springs. 582,681, Nov. 24; Serial No. 621,336, published Aug. 25, 1953. Class 35.

Seamprufe Incorporated, New York, N. Y. Women's and misses' hosiery. 582,633, Nov. 24; Serial No. 607,644, published July 28, 1953. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Vitamin capsules. 582,823, Nov. 24; Serial No. 639,837, published Aug. 18, 1953. Class 18.

Self Storing Window Company, Inc., Minneapolis, Minn. Porch enclosure assemblies. 582,827, Nov. 24; Serial No. 640,132, published Aug. 25, 1953. Class 12.

"Semperit" Oesterreichisch-Amerikanische Gummiwerke Aktiengesellschaft, Vienna, Austria-Hungary, to "Semperit" Oesterreichisch-Amerikanische Gummiwerke Aktiengesellschaft, Vienna, Austria. Rubber packing and hose of all kind, pneumatic tires etc. 93,565, re-renewed Sept. 23, 1953. O. G. Nov. 24. Class 35.

"Semperit" Oesterreichisch-Amerikanische Gummiwerke Aktiengesellschaft, Vienna, Austria-Hungary, to "Semperit" Oesterreichisch-Amerikanische Gummiwerke Aktiengesellschaft, Vienna, Austria. Children's hollow and solid rubber playing-balls, tennis-balls, foot-balls, etc. 94,120, re-renewed Nov. 4, 1953. O. G. Nov. 24. Class 22.

Serta Associates, Inc., Chicago, Ill., and Wilmington, Del. Mattresses. 582,778, Nov. 24; Serial No. 633,880, published Aug. 25, 1953. Class 32.

Service Cycle Supply Corporation, doing business as American Sportex Co., New York, N. Y. Adult bicycles. 583,020, Nov. 24; Serial No. 636,437. Class 19.

Severin, Gordon H., Oklahoma City, Okla. Simulated golf game. 582,619, Nov. 24; Serial No. 589,993, published Sept. 1, 1953. Class 22.

Shrago, Mannah N., Goldsboro, N. C. Leather shoes. 582,840, Nov. 24; Serial No. 640,762, published Aug. 25, 1953. Class 39.

Sierra Electric and Manufacturing Company, Los Angeles, Calif. Wall plates for electrical switches. 582,868, Nov. 24; Serial No. 641,981, published Aug. 25, 1953. Class 21.

Simon, M. & D., Company Incorporated, Cleveland, Ohio. Sportswear. 582,599, Nov. 24; Serial No. 553,529, published Apr. 28, 1953. Class 39.

Simpson Laboratories, Inc., New York, N. Y. Therapeutic drug. 582,750, Nov. 24; Serial No. 630,967, published Aug. 18, 1953. Class 18.

Sinclair, H. M., Jr., trustee: *See*—
Sinclair Manufacturing Company, The.

Sinclair Manufacturing Company, The, to H. M. Sinclair, Jr., trustee for the partnership, The Sinclair Manufacturing Company, Toledo, Ohio. Chloride of lime, concentrated lye, powdered borax and ammonia. 95,359, re-renewed Feb. 10 1954. O. G. Nov. 24. Class 6.

Sita-Adventure Trails, Inc., New York, N. Y. Conducting escorted travel tours. 582,989, Nov. 24; Serial No. 642,846, published Aug. 25, 1953. Class 105.

SKF Industries, Inc., Philadelphia, Pa. Anti-friction ball and roller bearings. 582,632, Nov. 24; Serial No. 607,275, published June 30, 1953. Class 23.

Skyland Food Corporation, Denver, Colo. Canned apples. 582,675, Nov. 24; Serial No. 620,173, published Apr. 29, 1952. Class 46.

Smith, D. B., & Company, Inc., Utica, N. Y. Hand and power operated sprayers, insecticide spray guns, etc. 582,618, Nov. 24; Serial No. 589,686, published May 20, 1952. Class 23.

Smith-Dorsey Company, The, Lincoln, Nebr., assignor to The Wander Company, Chicago, Ill. Enzyme inhibitor for rectal application. 582,637, Nov. 24; Serial No. 608,478, published Aug. 18, 1953. Class 18.

Smith, Omer J., doing business as Paper Products Co., Cincinnati, Ohio. Paper products. 582,610, Nov. 24; Serial No. 578,106, published Aug. 25, 1953. Class 37.

Societe Alsacienne de Constructions Mecaniques, Societe Anonyme, Mulhouse, Haut-Rhine, France. Electric wires and cables; electronic relays; audio and carrier transmitters, etc. 582,686, Nov. 24; Serial No. 622,362, published Aug. 25, 1953. Class 21.

Societe Anonyme de la Vieille Cure de Cenon, Cenon, France. Alcoholic cordials and liqueurs. 582,597, Nov. 24; Serial No. 546,244, published July 28, 1953. Class 49.

Societe Francaise Radio-Electrique, Paris, France. Electron tubes. 582,930, Nov. 24; Serial No. 638,612, published Aug. 25, 1953. Class 21.

Southwestern Portland Cement Company, Los Angeles, Calif. Cements. 582,790, Nov. 24; Serial No. 634,612, published July 28, 1953. Class 12.

South-Western Publishing Co., Cincinnati, Ohio. Workbooks. 582,772, Nov. 24; Serial No. 632,801, published Aug. 18, 1953. Class 37.

Spencer, Richard L., East Mansfield, Ohio. Internal medical preparation. 582,841, Nov. 24; Serial No. 640,815, published Aug. 18, 1953. Class 18.

Spiegel, Inc., Chicago, Ill. Men's and ladies' shoes. 582,657, Nov. 24; Serial No. 615,468, published Aug. 25, 1953. Class 39.

Sport Products, Inc., Cincinnati, Ohio., now by change of name MacGregor Sport Products Inc. Rubber covered game balls. 582,797, Nov. 24; Serial No. 635,065, published Sept. 1, 1953. Class 22.

Springfield Auto Supply Company: *See*—
Reisch, Albert.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Hypnotic and anesthetic preparations. 582,717, Nov. 24; Serial No 627,848, published Aug. 4, 1953. Class 18.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Penicillin-containing antibacterial preparations. 582,768, Nov. 24; Serial No. 632,451, published Aug. 25, 1953. Class 18.

Staley, A. E., Manufacturing Company, Decatur, Ill. Monosodium glutamate. 583,008, Nov. 24; Serial No. 625,495. Class 46.

Standard Brands Incorporated, New York, N. Y. Coffee. 582,729, Nov. 24; Serial No. 629,634, published June 30, 1953. Class 46.

Standard Brands Incorporated, New York, N. Y. Coffee. 582,730, Nov. 24; Serial No. 629,633, published June 30, 1953. Class 46.

Standard Scientific Supply Corp., New York, N. Y. Laboratory apparatus etc. 373,168, Nov. 28, 1939. Canceled Oct. 22, 1953. O. G. Nov. 24. Class 26.

Stanley Home Products, Inc., Westfield, Mass. Cosmetics. 582,822, Nov. 24; Serial No. 639,789, published Aug. 25, 1953. Class 51.

Staple Coat Company, New York, N. Y. Ladies' coats and suits. 582,628, Nov. 24; Serial No. 602,072, published July 21, 1953. Class 39.

Star Time Production Corporation, New York, N. Y. Advertising the goods and services of others. 582,988, Nov. 24; Serial No. 642,053, published Aug. 18, 1953. Class 101.

Stayton Canning Co. Co-Operative, Stayton, Oreg. Canned vegetables and fruits and frozen deciduous fruits. 438,239, Apr. 13, 1948. Republished Nov. 24. Class 46.

Steel City Manufacturing Company, The, Youngstown, Ohio. Newspaper rural delivery route tubes and newspaper sales honor boxes. 582,896, Nov. 24; Serial No. 636,257, published Aug. 18, 1953. Class 2.

Steiner Sales Company, Division of American Linen Supply Co.: *See*—
American Linen Supply Co.

Stern Brothers, New York, N. Y. Ironing board covers and clothes pins. 582,814, Nov. 24; Serial No. 639,496, published Sept. 1, 1953. Class 24.

Stern Brothers, New York, N. Y. Umbrellas, parasols and canes. 582,815, Nov. 24; Serial No. 639,505, published Aug. 18, 1953. Class 41.

Stern Brothers, New York, N. Y. Living room furniture, bedroom furniture, dining room furniture, etc. 582,816, Nov. 24; Serial No. 639,517, published Aug. 25, 1953. Class 32.

Stolz Freres, S. A. Fabrique d'Horlogerie Angelus, Le Locle, Switzerland. Watches, chronometers with automatic calendar. 582,788, Nov. 24; Serial No. 634,499, published July 28, 1953. Class 27.

Strickland, J., & Co., Memphis, Tenn. Face cream. 582,864, Nov. 24; Serial No. 641,870, published July 14, 1953. Class 51.

Sulfur 8 Chemical Co., Inc.: *See*—
Newbro Manufacturing Company.

Sun Electric Corporation, Chicago, Ill. Automotive power plant testing apparatus. 582,663, Nov. 24; Serial No. 616,459, published Aug. 25, 1953. Class 26.

Sunway Fruit Products, Chicago, Ill. Non-alcoholic, maltless, flavored concentrate. 582,763, Nov. 24; Serial No. 631,823, published Aug. 4, 1953. Class 45.

Supreme Feed Mills, also doing business as Supreme Mills, Glasgow, Ky. Ground corn. 582,727, Nov. 24; Serial No. 629,827, published Aug. 11, 1953. Class 46.

Supreme Mills: *See*—
Supreme Feed Mills.

Suzanne Laboratories, Inc., Paterson, N. J. Perfume. 582,765, Nov. 24; Serial No. 631,899, published July 28, 1953. Class 51.

Swindle, D. W., doing business as D. W. Swindle and Sons Company, Nashville, Tenn. Brooms. 582,973, Nov. 24; Serial No. 648,510, published Aug. 25, 1953. Class 29.

Swindle, D. W., and Sons Company: *See*—
Swindle, D. W.

Swiss Pine Importing Co., Inc., New York, N. Y. Scenting and softening oil for bath water. 582,780, Nov. 24; Serial No. 634,009, published July 21, 1953. Class 51.

Taft Pharmaceutical Company, Incorporated, New Haven, Conn. Food ingredient in the form of a powder, and containing proteins, vitamins, and minerals. 582,629, Nov. 24; Serial No. 603,267, published Aug. 11, 1953. Class 18.

Taussig, Rena R., Chicago, Ill. Envelope type merchandise cases. 582,804, Nov. 24; Serial No. 635,499, published Aug. 18, 1953. Class 2.

Thomas & Skinner Steel Products Company, Indianapolis, Ind. Laminations for electro-magnetic apparatus, permanent magnets, permanent magnet assemblies, etc. 582,767, Nov. 24; Serial No. 632,334, published Aug. 25, 1953. Class 21.

Threads, Incorporated, Gastonia, N. C. Sewing thread. 308,300, Nov. 28, 1933. Republished Nov. 24. Class 43.

Tobin, Sporn & Glaser, Inc., New York, N. Y. Renaissance lace, cluny lace, and medallion lace; etc. 305,747, renewed Aug. 22, 1953. O. G. Nov. 24. Class 42.

Tobin, Sporn & Glaser, Inc., New York, N. Y. Braid, tape, textile fabrics stamped for drawn work, etc. 305,756, renewed Aug. 22, 1953. O. G. Nov. 24. Class 40.

Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y. Wool braided rugs. 582,968, Nov. 24; Serial No. 645,443, published Aug. 25, 1953. Class 42.

Trail-A-Boat Company, Pontiac, Mich. Combined trailers and sail boats. 583,022, Nov. 24; Serial No. 640,707. Class 19.

Triangle Vineyards: *See*
Schenley Industries, Inc.

Tube Turns, Inc., Louisville, Ky. Metal forgings. 582,702, Nov. 24; Serial No. 625,700, published Sept. 1, 1953. Class 14.

Tucker's, Sophie, Food Products Company, Incorporated, Baltimore, Md. Noodles. 303,976, renewed June 13, 1953. O. G. Nov. 24. Class 46.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Underwood Corporation: *See*—
Electronic Computer Corporation

Union Bag & Paper Corporation, New York, N. Y. Sulphate or sulphite paper and board. 582,693, Nov. 24; Serial No. 624,576, published Aug. 4, 1953. Class 37.

Union Bag & Paper Corporation, New York, N. Y. Waterproof paper for sheathing, lining, insulating, etc. 582,819, Nov. 24; Serial No. 639,676, published Aug. 25, 1953. Class 12.

United Meat Packers, Rotterdam, Netherlands. Canned ham. 582,899, Nov. 24; Serial No. 636,574, published July 7, 1953. Class 46.

United States Plywood Corporation, New York, N. Y. Synthetic woods, such as hardboards. 582,769, Nov. 24; Serial No. 632,576, published July 21, 1953. Class 12.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Constructional steel sections, bars and plates. 582,739, Nov. 24; Serial No. 628,658, published Aug. 25, 1953. Class 12.

United States Steel Corporation: *See*
United States Steel Company.

Universal Form Clamp Co., Chicago, Ill. Concrete construction forms and parts for the forms. 582,721, Nov. 24; Serial No. 628,311, published Aug. 25, 1953. Class 12.

Untermeyer, Robbins & Co., New York, N. Y. Finger rings and bracelets. 582,784, Nov. 24; Serial No. 634,430, published July 21, 1953. Class 28.

Velkov, Dimitar, New York, N. Y. Harmonicas. 582,709, Nov. 24; Serial No. 626,923, published Sept. 1, 1953. Class 36.

Vendome Watch Vve M. Gurtner, Corcelles, Switzerland. Watches and parts of watches. 582,850, Nov. 24; Serial No. 641,404, published July 28, 1953. Class 27.

Victaulic Company of America, Union, N. J. Gaskets. 582,865, Nov. 24; Serial No. 641,877, published Aug. 25, 1953. Class 35.

Victor Equipment Company, San Francisco, Calif. Coated and uncoated welding rods. 582,694, Nov. 24; Serial No. 624,714, published Aug. 25, 1953. Class 14.

Waggoner-Gates Milling Company, Independence, Mo. Wheat flour. 45,341, Aug. 15, 1905. Republished Nov. 24. Class 46.

Waggoner-Gates Milling Company, Independence, Mo. Self-rising flour. 316,410, Aug. 28, 1934. Republished Nov. 24. Class 46.

Waite Carpet Company, Oshkosh, Wis. Textile rugs and carpets. 582,828–9, Nov. 24; Serial Nos. 640,180–1, published Sept. 1, 1953. Class 42.

Waite Carpet Co., Oshkosh, Wis. Textile rugs and carpets. 582,900, Nov. 24; Serial No. 636,617, published Sept. 1, 1953. Class 42.

Waite Carpet Company, Oshkosh, Wis. Textile rugs and carpets. 582,942–3, Nov. 24; Serial Nos. 643,517–20, published Sept. 1 1953. Class 42.

Walking Meal, Inc., Erie, Pa. Paperboard boxes. 582,881, Nov. 24; Serial No. 642,502, published Aug. 18, 1953. Class 2.

Walter Paper Company, Inc., Miami, Fla. School fillers and tablets, composition books, and pencils. 582,761, Nov. 24; Serial No. 631,769, published July 14, 1953. Class 37.

Wamsutta Mills, New Bedford, Mass. Cotton piece goods. 582,873, Nov. 24; Serial No. 642,102, published Sept. 1, 1953. Class 42.

Wamsutta Mills, New Bedford, Mass. Piece goods. 582,925–6, Nov. 24; Serial Nos. 638,380–2, published Sept. 1, 1953. Class 42.

Wander Company, The: *See*—
Smith-Dorsey Company, The.

Wander Company, The, Chicago, Ill. Coronary vasodilator. 582,704, Nov. 24; Serial No. 625,777, published Aug. 4, 1953. Class 18.

Wardens and Commonalty of the Mystery of Goldsmiths of the City of London, The, London, England. Silver wares. 582,990, Nov. 24; Serial No. 631,081, published July 28, 1953. Class 28.

Wayne Iron Works, Wayne, Pa. Folding grandstands. 308,719, Dec. 19, 1933. Republished Nov. 24. Class 12.

Webb Forging Company, Belleville, Mich. Forgings of ferrous and nonferrous metals. 582,785, Nov. 24; Serial No. 634,433, published Sept. 1, 1953. Class 14.

Webb, Jervis B., Company, Detroit, Mich. Trolleys for conveyors. 582,670, Nov. 24; Serial No. 619,116, published July 7, 1953. Class 23.

Weideman Company, The, Cleveland, Ohio, to James B. Beam Distilling Co., Chicago, Ill. Whiskey. 307,462, renewed Oct. 24, 1953. O. G. Nov. 24. Class 49.

Weinbrenner, Albert H., Co., Milwaukee, Wis. Men's dress shoes. 582,606, Nov. 24; Serial No. 574,266, published June 26, 1951. Class 39.

Weinreich Brothers Company, New York, N. Y. Pearl necklaces, pearl brooches, pearl bracelets, etc. 582,759, Nov. 24; Serial No. 631,704, published July 21, 1953. Class 28.

Wennonah Cotton Mills Company, Lexington, N. C. Textile fabrics. 582,909, Nov. 24; Serial No. 637,342, published Sept. 1, 1953. Class 42.

Wernet Dental Mfg. Co., Inc.: *See*—
Phillips & Benjamin Company, The.

Westall, Evelyn: *See*—
Blake, Irene, Cosmetics, Inc.
Parfums Evyan Inc.

Westall, Evelyn, Company: *See*—
Blake, Irene, Cosmetics, Inc.

Whattaspout Mfg. Co.: *See*—
Hunneman, John R., Jr.

White Office Machines: *See*—
White, Tobias J.

White, Tobias J., doing business as White Office Machines, Marysville, Tenn. Typewriter maintenance and repair service. 583,027, Nov. 24; Serial No. 639,682. Class 103.

Whitehall Pharmacal Company, New York, N. Y. Analgesic cream. 582,831, Nov. 24; Serial No. 640,246, published Aug. 18, 1953. Class 18.

Wilkins-Rogers Milling Co., Inc., Washington, D. C. Wheat flour. 304,505, July 11, 1933. Republished Nov. 24. Class 46.

Wilkins-Rogers Milling Company, Inc., Washington, D. C. Wheat flour, self-rising flour, and feed. 582,711, Nov. 24; Serial No. 627,160, published June 16, 1953. Class 46.

Willow Springs Distilling Company: *See*—
American Distilling Company, The.

Windsor-Lloyd Products, Inc., Wilmington, Del. Antifreeze preparation. 309,871, renewed Feb. 6, 1954. O. G. Nov. 24. Class 6.

Windsor-Lloyd Products, Inc., Wilmington, Del. Polishing and cleaning preparation. 309,899, renewed Feb. 6, 1954. O. G. Nov. 24. Class 4.

Windsor-Lloyd Products, Inc., Wilmington, Del. Dry cleaning preparation. 309,900, renewed Feb. 6, 1954. O. G. Nov. 24. Class 52.

Winebrenner, D. E., Co., Inc., Hanover, Pa. Concentrate used in making maltless soft drinks. 582,758, Nov. 24; Serial No. 631,453, published July 14, 1953. Class 45.

Wine Growers Guild, Lodi, Calif. Wines. 582,645, Nov. 24; Serial No. 610,882, published Aug. 11, 1953. Class 47.

Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing gum. 304,384, July 4, 1933. Republished Nov. 24. Class 46.

Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing gum. 582,862, Nov. 24; Serial No. 641,819, published May 26, 1953. Class 46.

Wulff, Maggie, doing business as Wulff Public Relations, Cleveland, Ohio. Advertising the goods and services of others. 582,987, Nov. 24; Serial No. 637,631, published Aug. 25, 1953. Class 101.

Wulff Public Relations: *See*—
Wulff, Maggie.

Wundies, Inc., Williamsport, Pa. Children's and girls' slips, panties, robes, etc. 582,953, Nov. 24; Serial No. 644,205, published Aug. 18, 1953. Class 39.

Wyner, I. A., & Co., Inc., New York, N. Y. Knitted fabrics. 570,810, Feb. 17, 1953. Canceled Oct. 22, 1953. O. G. Nov. 24. Class 42.

Wyner, I. A., & Co., Inc., New York, N. Y. Knitted fabrics in the piece. 576,347, June 23, 1953. Canceled Oct. 22, 1953. O. G. Nov. 24. Class 42.

Yankee Homecrafts: *See*—
Ciroli, Anthony J.

Yardley & Company Limited, London, England. Face powders, and face creams. 304,033, June 20, 1933. Republished Nov. 24. Class 51.

Young, Daniel W., Pine Bluff, Ark. Garlic compound tablets. 582,907, Nov. 24; Serial No. 637,226, published Aug. 11, 1953. Class 18.

Zell Bros., Portland, Oreg. Watches. 582,623, Nov. 24; Serial No. 598,771, published Nov. 27, 1951. Class 27.

Ziv Steel & Wire Co., Chicago, Ill. Tool steel. 583,014, Nov. 24; Serial No. 631,966. Class 14.

Zokal Soldering Tip Sales, Chicago, Ill. Electric soldering irons, and tips. 582,723, Nov. 24; Serial No. 628,318, published Aug. 18, 1953. Class 21.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Acid resistant porcelain enamel frits. Pemco Corporation. 436,149, Jan. 27, 1948. Republished Nov. 24.

Chinchillas, Live. National Chinchilla Breeders of America, Incorporated. 582,991, Nov. 24; Serial No. 619,209, published July 21, 1953.

Enamel frits, oxides and opacifiers. The Porcelain Enamel and Manufacturing Company of Baltimore. 329,748, Nov. 12, 1935. Republished Nov. 24.

Grass seed, Lawn. O. M. Scott & Sons Company. 307,110, renewed Oct. 17, 1953. O. G. Nov. 24.

Laminated plastic sheets, panels, strips, blocks, etc. Fiberesin Plastics Company. 582,647, Nov. 24; Serial No. 611,173, published July 21, 1953.

Leather, Tanned. The Juvenile Shoe Corporation of America. 582,631, Nov. 24; Serial No. 607,252, published July 7, 1953

Porcelain enamel frits. Porcelain Enamel and Manufacturing Company of Baltimore. 383,336, Dec. 3, 1940. Republished Nov. 24.

Porcelain enmmel frits. Porcelain Enamel and Manufacturing Company of Baltimore. 387,742, May 27, 1941. Republished Nov. 24.

CLASS 2

Bags; and linings for bags, barrels, boxes, and drums. Arkell Safety Bag Company. 582,654, Nov. 24; Serial No. 614,332, published Aug. 18, 1953.

Bags, Paper. International Paper Company. 582,724, Nov. 24; Serial No. 628,631, published Aug. 18, 1953.

Boxes, Paperboard. The Flintkote Company. 583,018, Nov. 24; Serial No. 635,958.

Boxes, Paperboard. Walking Meal, Inc. 582,881, Nov. 24; Serial No. 642,502, published Aug. 18, 1953.

Canister sets, bread boxes, chef sets, etc. Kromex Corporation. 582,687, Nov. 24; Serial No. 622,599, published Aug. 18, 1953.

Cartons, Egg. Bloomer Bros. Company. 582,908, Nov. 24; Serial No. 637,298, published Aug. 18, 1953.

Cases, Envelope type merchandise. R. R. Taussig. 582,804, Nov. 24; Serial No. 635,499, published Aug. 18, 1953.

Collapsible cardboard insert for packing boots in boxes. H. J. Justin and Sons, Inc. 582,802, Nov. 24; Serial No. 635,266, published Aug. 18, 1953.

Container, Wheeled. Kalamsteel Products Company, Inc. 582,805, Nov. 24; Serial No. 635,538, published Aug. 25, 1953.

Seed, flower, fruit and plant pots. Bird & Son, inc. 583,023, Nov. 24; Serial No. 641,167.

Tanks, Pressure. The Electric Sprayit Company. 582,725, Nov. 24; Serial No. 629,994, published Aug. 18, 1953.

Tubes and newspaper sales honor boxes, Newspaper rural delivery route. The Steel City Manufacturing Company. 582,896, Nov. 24; Serial No. 636,257, published Aug. 18, 1953.

CLASS 3

Portfolios. H. W. Peterson. 582,906, Nov. 24; Serial No. 637,208, published Aug. 25, 1953.

CLASS 4

Polishing and cleaning preparation. Windsor-Lloyd Products, Inc. 309,899, renewed Feb. 6, 1954. O. G. Nov. 24.

CLASS 6

Absorbent body impregnated with a perfumed air deodorant. J. Saman. 582,878, Nov. 24; Serial No. 642,372, published Aug. 25, 1953.

Acetyl peroxide, ammonium persulfate, barium nitrate, etc. Food Machinery and Chemical Corporation. 582,967, Nov. 24; Serial No. 645,299, published Sept. 1, 1953.

Anti-freeze preparation. Windsor-Lloyd Products, Inc. 309,871, renewed Feb. 6, 1954. O. G. Nov. 24.

Chemical, Liquid. The Hargrove Company. 582,935, Nov. 24; Serial No. 638,797, published Aug. 25, 1953.

Chemical preparations. Ergol Photochemical Research Limited. 582,847, Nov. 24; Serial No. 641,284, published Aug. 18, 1953.

Chloride of lime, concentrated lye, powdered borax and ammonia. The Sinclair Manufacturing Company. 95,359, re-renewed Feb. 10, 1954. O. G. Nov. 24.

Coal tar colors. Ciba Limited. 582,869, Nov. 24; Serial No. 642,013, published Aug. 18, 1953.

Dyes. Sandoz Chemical Works, Inc. 310,090, renewed Feb. 13, 1954. O. G. Nov. 24.

Gloss removing compound. Sandoz Chemical Works, Inc. 310,162, renewed Feb. 13, 1954. O. G. Nov. 24.

High boiling oily esters, etc. Eastman Kodak Company. 360,620, Sept. 20, 1938. Canceled Oct. 22, 1953. O. G. Nov. 24.

High boiling oily esters, etc. Eastman Kodak Company. 361,217, Oct. 11, 1938. Canceled Oct. 22, 1953. O. G. Nov. 24.

Insecticides. Koppers Company, Inc. 582,728, Nov. 24; Serial No. 629,738, published Aug. 25, 1953.

Mineral oil for use on tobacco plants. Glover Mineral Products, Inc. 583,013, Nov. 24; Serial No. 631,350.

Polymeric vinyl compounds. Badische Anilin- & Soda-Fabrik (I. G. Farbenindustrie Aktiengesellschaft "In Auflösung"). 582,783, Nov. 24; Serial No. 634,395, published Aug 25, 1953.

Polystyrene. Koppers Company, Inc. 582,774, Nov. 24; Serial No. 632,991, published Aug. 25, 1953.

Resins, Synthetic. Monsanto Chemical Company. 582,601, Nov. 24; Serial No. 566,638, published Aug. 11, 1953.

Static removing acrylic plastic cleaners or solutions, de-icer boot removing solutions, etc. Cee-Bee Chemical Co., Inc. 582,665, Nov. 24; Serial No. 617,336, published Aug. 18, 1953.

Styrene butadiene copolymer resins. Marbon Corporation. 582,652, Nov. 24; Serial No. 613,414, published Aug 25, 1953.

CLASS 7

Rope, Hard fibre. Plymouth Cordage Company. 308,264, Nov. 28, 1933. Republished Nov. 24.

Rope, Hard fibre. Plymouth Cordage Company. 308,267, Nov. 28, 1933. Republished Nov. 24.

CLASS 10

Fertilizers. Port Fertilizer & Chemical Company. 582,893, Nov. 24; Serial No. 643,184, published Sept. 1, 1953.

Fertilizers. C. R. Rex. 583,007, Nov. 24; Serial No. 624,502.

Soil conditioner. Rumianca, S. P. A. 582,860, Nov. 24; Serial No. 641,744, published Aug. 25, 1953.

CLASS 11

Carbon paper, writing and drawing ink, typewriter ribbons, etc. A. W. Faber-Castell Pencil Co., Inc. 582,808, Nov. 24; Serial No. 639,027, published Aug. 18, 1953.

Typewriter and adding machine ribbons, carbon paper, ink conducting wicks and holders therefor, etc. J. P. Knight. 582,671, Nov. 24; Serial No. 619,300, published Aug. 18, 1953.

CLASS 12

Asbestos-cement siding. The Ruberoid Co. 582,918, Nov. 24; Serial No. 638,105, published July 28, 1953.

Brick, High duty fireclay refractory. Harbison-Walker Refractories Company. 582,890, Nov. 24; Serial No. 643,096, published July 21, 1953.

Cements. Southwestern Portland Cement Company. 582,790, Nov. 24; Serial No. 634,612, published July 28, 1953.

Concrete construction forms and parts for the forms. Universal Form Clamp Co. 582,721, Nov. 24; Serial No. 628,311, published Aug. 25, 1953.

Constructional steel sections, bars and plates. United States Steel Company. 582,739, Nov. 24; Serial No. 628,658, published Aug. 25, 1953.

Doors and windows, Wooden. J. Gerber & Co., Inc. 582,950, Nov. 24; Serial No. 643,901, published July 21, 1953.

Grandstands, Folding. Wayne Iron Works. 308,719, Dec. 19, 1933. Republished Nov. 24.

Homes, Pre-fabricated. Gunnison Homes, Incorporated. 582,892, Nov. 24; Serial No. 643,159, published July 21, 1953.

Load transfer units. Kelley Manufacturing Company. 582,643, Nov. 24; Serial No. 610,040, published Aug. 18, 1953.

Lumber. Balsa Ecuador Lumber Corp. 580,244, Sept. 22, 1953. Corrected. O. G. Nov. 24.

Plywood, Douglas Fir Plywood Association. 582,994, Nov. 24; Serial No. 641,608, published July 21, 1953.

Plywood, Douglas Fir Plywood Association. 582,995, Nov. 24; Serial No. 642,271, published July 21, 1953.

Plywood sheet material. The Davis Plywood Corporation. 582,757, Nov. 24; Serial No. 631,405, published July 28, 1953.

Porch enclosure assemblies. Self Storing Window Company, Inc. 582,827, Nov. 24; Serial No. 640,132, published Aug. 25, 1953.

Pulverized stone-aggregate mixture. F. R. McDonald. 582,733, Nov. 24; Serial No. 629,373, published July 21, 1953.

Putty, Lacquer base. Rinshed Mason Company. 582,695, Nov. 24; Serial No. 624,797, published Aug. 25, 1953.

Sidings of aluminum. Continental Aluminum Corporation. 582,621, Nov. 24; Serial No. 592,074, published July 28, 1953.

Synthetic resin composition for coating and impregnating concrete, etc. The Atlas Mineral Products Company of Pennsylvania. 582,659, Nov. 24; Serial No. 615,748, published Aug. 18, 1953.

Tile, Floor. Kentile, Inc. 582,889, Nov. 24; Serial No. 642,974, published Aug. 18, 1953.

Tiles, Ceramic and clay. Architectural Tiling Company, Inc. 582,762, Nov. 24; Serial No. 631,776, published July 28, 1953.

Waterproof paper for sheathing, lining, insulating, etc. Union Bag & Paper Corporation. 582,819, Nov. 24; Serial No. 639,676, published Aug. 25, 1953.

Window units. Gate City Sash and Door Company. 582,736, Nov. 24; Serial No. 629,012, published July 28, 1953.

Windows, Storm. Paramount Aluminum Products Corp. 582,957, Nov. 24; Serial No. 644,343, published July 21, 1953.

Woods, Synthetic, such as, hardboards. United States Plywood Corporation. 582,769, Nov. 24; Serial No 632,576, published July 21, 1953.

CLASS 13

Screws. Mac-It Parts Company. 91,886, June 3, 1913. Corrected. O. G. Nov. 24.

CLASS 14

Alloy, Copper base. Eutectic Welding Alloys Corporation. 582,891, Nov. 24; Serial No. 643,146, published Aug. 18, 1953.

Flux and solder. International Harvester Company. 582,649, Nov. 24; Serial No. 613,171, published Aug. 18, 1953.

Forgings. American Brake Shoe Company. 582,941, Nov 24; Serial No. 643,261, published Aug. 25, 1953.

Forgings, Metal. Tube Turns, Inc. 582,702, Nov. 24; Serial No. 625,700, published Sept. 1, 1953.

Forgings of ferrous and nonferrous metals. Webb Forging Company. 582,785, Nov. 24; Serial No. 634,433, published Sept. 1, 1953.

Tool steel. Ziv Steel & Wire Co. 583,014, Nov. 24; Serial No. 631,966.

Welding rods, Coated and uncoated. Victor Equipment Company. 582,694, Nov. 24; Serial No. 624,714, published Aug. 25, 1953.

CLASS 15

Grease. Eastman Kodak Company. 360,854, Sept. 27, 1938. Canceled Oct. 22, 1953. O. G. Nov. 24.

Oil, Lubricating. Refiners Marketing Company, Ltd. 583,011, Nov. 24; Serial No. 628,825.

CLASS 16

Acrylic plastic used for waterproofing, protecting and preserving masonry, etc. M. P. Poznak. 582,793, Nov. 24; Serial No. 634,911, published Aug. 18, 1953.

Coating compound, Cement-base, waterproof. Con-Cor Paint Company. 582,648, Nov. 24; Serial No. 611,942, published Aug. 18, 1953.

Paint. American-Marietta Company. 582,844, Nov. 24; Serial No. 640,995, published July 7, 1953.

Paint enamels. Arthur C. Mangels Industries. 582,627, Nov. 24; Serial No. 601,330, published Aug. 18, 1953.

Paints and varnishes. J. C. Hempel's Skibsfarvefabrik, A/S. 582,760, Nov. 24; Serial No. 631,735, published Aug. 18, 1953.

Paints, enamels, varnishes, etc., Driers for ready mixed. Nuodex Products Co., Inc. 582,901, Nov. 24; Serial No. 636,860, published Aug. 18, 1953.

Resin containing composition for coating metal surfaces. Eutectic Welding Alloys Corporation. 582,743, Nov. 24; Serial No. 630,486, published Aug. 18, 1953.

Stains and enamels. Benjamin Moore & Co. 582,755, Nov. 24; Serial No. 631,362, published Aug. 18, 1953.

Substitute for linseed-oil. Berry Brothers Ltd. 93,327, Sept. 9, 1913. Republished Nov. 24.

CLASS 17

Smoking-tobacco and cigarettes. A. Levy. 41,221, re-renewed Oct. 6, 1953. O. G. Nov. 24.

Smoking-tobacco and cigarettes. A. Levy. 41,324, re-renewed Oct. 20, 1953. O. G. Nov. 24.

Tobacco and tobacco products. Larus & Brother Company. 582,705, Nov. 24; Serial No. 625,856, published Aug. 25, 1953.

CLASS 18

Analgesic cream. Whitehall Pharmacal Company. 582,831, Nov. 24; Serial No. 640,246, published Aug. 18, 1953.

Antihistamine-analgesic preparation. The Harrower Laboratory, Inc. 582,884, Nov. 24; Serial No. 642,548, published Aug. 25, 1953.

Bacitracin for intramuscular injection. Commercial Solvents Corporation. 582,740, Nov. 24; Serial No. 630,122, published Aug. 18, 1953.

Blood grouping serums. The Blood Grouping Laboratory of Boston, Inc. 582,807, Nov. 24; Serial No. 635,869, published Aug. 11, 1953.

Bulk feed supplement. S. B. Penick & Company. 582,792, Nov. 24; Serial No. 634,706, published Aug. 18, 1953.

Chemo-therapeutic agent. Parke, Davis & Company. 582,820, Nov. 24; Serial No. 639,713, published Aug. 11, 1953.

Combination of benzoin, oil of eucalyptus, oil of pine needles, etc. The Bauer Chemical Company, Inc. 582,919, Nov. 24. Serial No. 638,120, published Aug. 11, 1953.

Corn remover in liquid form, medicated corn, bunion, and callous pads, etc. S. Pfeiffer Manufacturing Company. 308,927, renewed Dec. 26, 1953. O. G. Nov. 24.

Coronary vasodilator. The Wander Company. 582,704, Nov. 24; Serial No. 625,777, published Aug. 4, 1953.

Defluorinated phosphate. International Minerals & Chemical Corporation. 582,912, Nov. 24; Serial No. 637,594, published Aug. 4, 1953.

Dermatological preparation. Mathieson Chemical Corporation. 582,838, Nov. 24; Serial No. 640,685, published Aug. 25, 1953.

Enzyme inhibitor for rectal application. The Smith-Dorsey Company. 582,637, Nov. 24; Serial No. 608,478, published Aug. 18, 1953.

Food ingredient in the form of a powder, and containing proteins, vitamins, and minerals. Taft Pharmaceutical Company, Incorporated. 582,629, Nov. 24; Serial No. 603,267, published Aug. 11, 1953.

Garlic compound tablets. D. W. Young. 582,907, Nov. 24; Serial No. 637,226, published Aug. 11, 1953.

Geriatric-mineral supplement with hormones. American Cyanamid Company. 582,927, Nov. 24; Serial No. 638,387, published Aug. 4, 1953.

Granules containing liver, iron, and folic acid. Armour and Company. 582,640, Nov. 24; Serial No. 609,774, published Aug. 11, 1953.

Hypnotic and anesthetic preparations. E. R. Squibb & Sons. 582,717, Nov. 24; Serial No. 627,848, published Aug. 4, 1953.

Isonicotinic acid hydrazide. Armour and Company. 582,937, Nov. 24; Serial No. 638,939, published Aug. 11, 1953.

Line of injectable mineral salt, alcohol, and glucose solutions. Abbott Laboratories. 582,877, Nov. 24; Serial No. 642,252, published Aug 11, 1953.

Medical preparation. Drug Specialties, Inc. 582,883, Nov. 24; Serial No. 642,531, published July 28, 1953.

Medical preparation. G. T. Morgan. 582,668, Nov. 24; Serial No. 618,905, published Aug. 11, 1953.

Medical preparation. Physicians and Hospitals Supply Company, Inc. 582,855, Nov. 24; Serial No. 641,570, published July 28, 1953.

Medical preparation, Internal. R. L. Spencer. 582,841, Nov. 24; Serial No. 640,815, published Aug. 18, 1953.

Medicinal preparation. Abbott Laboratories. 582,874, Nov. 24; Serial No. 642,118, published Aug. 11, 1953.

Medicinal preparation. Eli Lilly and Company. 582,933, Nov. 24; Serial No. 638,728, published July 28, 1953.

Medicinal preparation. Metz Pharmacal Company. 582,796, Nov. 24; Serial No. 635,046, published June 9, 1953.

Medicinal preparation. J. B. Roerig and Company. 582,639 Nov. 24; Serial No. 609,219, published Aug. 11, 1953.

Medicinal preparation, Liquid. The G. F. Harvey Company. 582,771, Nov. 24; Serial No. 632,707, published Jan. 20, 1953.

Medicinal preparation of multiple vitamins. Eli Lilly and Company. 582,905, Nov. 24; Serial No. 637,064, published Aug. 25, 1953.

Medicinal tonic. S. Pfeiffer Manufacturing Co. 582,824, Nov. 24; Serial No. 640,049, published Aug. 18, 1953.

Ointment, Diaper rash. Foley & Company. 582,875, Nov. 24; Serial No. 642,135, published Aug. 11, 1953.

Parenteral solutions. Cutter Laboratories. 582,715, Nov. 24; Serial No. 627,498, published Aug. 11, 1953.

Penicillin-containing antibacterial preparations. E. R. Squibb & Sons. 582,768, Nov. 24; Serial No. 632,451, published Aug. 25, 1953.

Pharmaceutical preparation. Armour and Company. 582,938, Nov. 24; Serial No. 638,943, published Aug. 11, 1953.

Pharmaceutical preparation. J. J. Briggs. 582,895, Nov. 24; Serial No. 636,113, published Aug. 4, 1953.

Pharmaceutical preparation. Charles E. Frosst & Co. 582,641, Nov. 24; Serial No. 609,793, published Aug 11, 1953.

Pharmaceutical preparation. Reclu Sales Company. 582,839, Nov. 24; Serial No. 640,758, published Aug 11, 1953.

Pharmaceutical preparations. Cilag Aktiengesellschaft. 582,752, Nov. 24; Serial No. 631,202, published Oct. 28, 1952.

Pharmaceutical preparations. Meade, Johnson & Company. 582,794, Nov. 24; Serial No. 634,985, published Aug. 18, 1953.

Pharmaceutical products. Laboratoires Laroche Navarron. 582,660, Nov. 24; Serial No. 615,982, published Aug. 18, 1953.

Preparation comprising in combination androgenic hormones with multivitamins, etc. Casimir Funk Laboratories, Inc. 582,866, Nov. 24; Serial No. 641,906, published Aug. 11, 1953.

Preparation for the external treatment of muscular aches and pains, etc. Capital Drug Company. 582,798, Nov. 24; Serial No. 635,120, published Aug. 18, 1953.

Sedative, Analgesic and gastric. E. A. Ferguson, Jr. 582,658, Nov. 24; Serial No. 615,634, published Aug. 18, 1953.

Serum. Allied Laboratories, Inc. 582,811, Nov. 24; Serial No. 639,303, published Aug. 11, 1953.

Solutions of smelling salts. Nips, Inc. 582,634, Nov. 24; Serial No. 607,759, published Aug. 18, 1953.

Tablets combining various sulfa drugs with streptomycin. Austin Laboratories, Inc. 582,732, Nov. 24. Serial No. 629,414, published Aug. 11, 1953.

Therapeutic drug. Simpson Laboratories, Inc. 582,750, Nov. 24; Serial No. 630,967, published Aug. 18, 1953.

Thyrotropic hormone preparation. Armour and Company. 582,939, Nov. 24; Serial No. 638,944, published Aug. 11, 1953.

Vitamin and mineral food supplement preparation. Benya Drug Company. 582,922, Nov. 24; Serial No. 638,238, published Aug. 4, 1953.

Vitamin capsules. Sears, Roebuck and Co. 582,823, Nov. 24; Serial No. 639,837, published Aug. 18, 1953.

Water soluble nitrogenous fraction of sugar beet juice, etc. International Minerals & Chemical Corporation. 582,756, Nov. 24; Serial No. 631,391, published Aug. 11, 1953.

CLASS 19

Airplanes and structural parts therefor. Lockheed Aircraft Corporation. 582,787, Nov. 24; Serial No. 634,475, published Aug. 25, 1953.

Automobiles, motor cycles, motor scooters, etc. Innocenti Soc. Generale per l'Industria Metallurgica E Meccanica. 582,825, Nov. 24; Serial No. 640,091, published Aug. 4, 1953.

Bicycles, Adult. Belknap Hardware and Manufacturing Company. 582,972, Nov. 24; Serial No. 648,354, published Sept. 1, 1953.

Bicycles, Adult. Service Cycle Supply Corporation. 583,020, Nov. 24; Serial No. 636,437.

Brake drums, and resilient axle suspensions for automotive trucks and trailers. Reynolds Manufacturing Company. 582,666, Nov. 24; Serial No. 617,931, published Sept. 1, 1953.

Trailers and sail boats, Combined. Trail-A-Boat Company. 583,022, Nov. 24; Serial No. 640,707.

Trailers, Farm. N. V. Nederlandsche Machinefabriek "Artillerie Inrichtingen." 582,678, Nov. 24; Serial No. 621,081, published Sept. 1, 1953.

Vehicle dumping bodies and parts thereof. Anthony Company. 582,620, Nov. 24; Serial No. 590,970, published Mar. 10, 1953.

Vehicles, New and used automotive. Coast-In Pontiac Co., Inc. 582,976, Nov. 24; Serial No. 648,914, published Sept. 1, 1953.

Windshield wiper blades. The Anderson Company. 582,940, Nov. 24; Serial No. 639,004, published Sept. 1, 1953.

CLASS 21

Batteries, Vehicle, battery cables, insulated wire, etc. A. Reisch. 297,702, renewed Sept. 27, 1952. O. G. Nov. 24.

Capacitors. Pyramid Electric Company. 583,015, Nov. 24; Serial No. 632,851.

Capacitors. Electrical. Micamold Radio Corporation. 582,952, Nov. 24; Serial No. 644,047, published Aug. 25, 1953.

Cathode ray tubes, Television. Claremont Laboratories, Inc. 582,777, Nov. 24; Serial No. 633,489, published Aug. 25, 1953.

Circuit interrupter, Manually resettable electric. Mechanical Products, Inc. 582,744, Nov. 24; Serial No. 630,715, published Aug. 25, 1953.

Coffee roasters, Electric. Incoro, Inc. 582,949, Nov. 24; Serial No. 643,763, published Aug. 18, 1953.

Connectors for electrical conductors and other current carrying elements, etc. Interlock Corporation. 582,630, Nov. 24; Serial No. 603,929, published Aug. 25, 1953.

Dials for rotor parts of electrical apparatus. The George W. Borg Corporation. 582,734, Nov. 24; Serial No. 629,345, published Aug. 25, 1953.

Electric insulators, and electric condensers. Lapp Insulator Company, Inc. 582,766, Nov. 24; Serial No. 631,992, published Aug. 25, 1953.

Electric soldering irons, and tips. Zokal Soldering Tip Sales. 582,723, Nov. 24; Serial No. 628,318, published Aug. 18, 1953.

Electric wires and cables; electronic relays; audio and carrier transmitters, etc. Societe Alsacienne de Constructions Mecaniques, Societe Anonyme Mulhouse. 582,686, Nov. 24; Serial No. 622,362, published Aug. 25, 1953.

Electrical apparatus. Califone Corporation. 582,612, Nov. 24; Serial No. 580,716, published Dec. 26, 1950.

Electrical building wires. Essex Wire Corporation. 582,609, Nov. 24; Serial No. 577,954, published Aug. 25, 1953.

Electrical connectors, Insulated. Aircraft-Marine Products Inc. 582,653, Nov. 24; Serial No. 613,860, published Aug. 18, 1953.

Electrical cutting, gouging, heating and blasting tool. Eutectic Welding Alloys Corporation. 582,849, Nov. 24; Serial No. 641,374, published Aug. 25, 1953.

Electrical fire alarm signal stations. M. Levy. 582,710, Nov. 24; Serial No. 627,072, published July 28, 1953.

Electrical follow-up intelligence transmitting, and/or receiving apparatus. The Pioneer Electric and Research Corporation. 583,999, Nov. 24; Serial No. 693,438.

Electrical receptacles and switch mountings. Laboratory Furniture Co., Inc. 582,683, Nov. 24; Serial No. 621,627, published Aug. 25, 1953.

Electrical tape. Plastic. Johns-Manville Corporation. 582,636, Nov. 24; Serial No. 608,043, published May 26, 1953.

Electrically-operated portable spraying apparatus. Portable Electric Tools, Inc. 582,857, Nov. 24; Serial No. 641,637, published Aug. 25, 1953.

Electro-mechanical switch, Light-sensitive. Micro Balancing, Incorporated. 582,843, Nov. 24; Serial No. 640,948, published Aug. 25, 1953.

Electron tubes. Societe Francaise Radio-Electrique. 582,930, Nov. 24; Serial No. 638,612, published Aug. 25, 1953.

Electronic sound recording, amplifying, playing and playback apparatus, etc. The Audak Company, Inc. 582,773, Nov. 24; Serial No. 632,864, published Aug. 25, 1953.

Insulatory fitted coverings for use on transformers and related electrical units. Aircraft Transformer Corporation. 582,698, Nov. 24; Serial No. 625,384, published July 28, 1953.

Laminations for electro-magnetic apparatus, permanent magnets, permanent magnet assemblies, etc. Thomas & Skinner Steel Products Company. 582,767, Nov. 24; Serial No. 632,334, published Aug. 25, 1953.

Magnetic sound recording and playback apparatus and parts thereof. Amplifier Corporation of America. 582,852, Nov. 24; Serial No. 641,421, published Aug. 25, 1953.

Magnetic tape. Minnesota Mining and Manufacturing Company. 582,954, Nov. 24; Serial No. 644,243, published Aug. 25, 1953.

Radio apparatus, supplies, and equipment, etc. Bud Radio, Inc. 303,469, renewed May 23, 1953. O. G. Nov. 24.

Speaker apparatus, Electrically sensitive. Bulova Watch Company, Inc. 582,770, Nov. 24; Serial No. 632,656, published Aug. 25, 1953.

Switches, Electric. R. E. Anderson. 582,604, Nov. 24; Serial No. 571,398, published Jan. 3, 1950.

Wall plates for electrical switches. Sierra Electric and Manufacturing Company. 582,868, Nov. 24; Serial No. 641,981, published Aug. 25, 1953.

CLASS 22

Fishing and spinning reels, fishing and spinning rods, fishing plugs, etc. Airex Corporation. 582,974–5, Nov. 24; Serial Nos. 648,639–40, published Sept. 1, 1953.

Game balls, Rubber covered. Sport Products, Inc. 582,797, Nov. 24; Serial No. 635,065, published Sept. 1, 1953.

Games. G. W. D'Arcey Co. 582,879, Nov. 24; Serial No. 642,391, published Sept. 1, 1953.

Golf game, Simulated. G. H. Severin. 582,619, Nov. 24; Serial No. 589,993, published Sept. 1, 1953.

Nets for use in the fishing industry. Drummond-ille Cotton Company, Limited. 582,748, Nov. 24; Serial No. 630,835, published Sept. 1, 1953.

Playing-balls, tennis-balls, foot balls, etc., Children's hollow and solid rubber. "Semperit" Oesterreichisch-Amerikanische Gummiwerke Aktiengesellschaft. 94,120, re-renewed Nov. 4, 1953. O. G. Nov. 24.

Roller skates. D. P. Harris Hardware & Manufacturing Co., Inc. 582,625, Nov. 24; Serial No. 599,566, published Sept. 1, 1953.

Ski-bindings. A. Attenhofer. 583,021, Nov. 24; Serial No. 636,960.

Toys. J. F. Dille. 316,603, Aug. 28, 1934. Republished Nov. 24.

CLASS 23

Automatic stripping attachment. Cornell Paperboard Products Co. 583,017, Nov. 24; Serial No. 634,242.

Bearings, Anti-friction ball and roller. SKF Industries, Inc. 582,632, Nov. 24; Serial No. 607,275, published June 30, 1953.

Centrifugal machinery. The Dorr Company. 582,685, Nov. 24; Serial No. 622,071, published June 30, 1953.

Clutch units, clutch pressure assemblies, clutch plates, etc., Automotive. Replacement Unit Company. 582,651, Nov. 24; Serial No. 613,239, published July 7, 1953.

Duplicating machines and parts thereof. A. B. Dick Company. 306,272, Sept. 12, 1933. Republished Nov. 24.

Dyeing-machines. Franklin Process Company. 94,900, re-renewed Jan. 13, 1954. O. G. Nov. 24.

Earth working implements, and specifically roller type soil cultivators and packers. T. G. Schmeiser. 583,096, Nov. 24; Serial No. 575,787.

Electrically driven apparatus comprising a continuous conveyor belt, etc. Cafa-Roll, Inc. 582,791, Nov. 24; Serial No. 634,681, published July 7, 1953.

Handles for tools. Hartwell Brothers. 309,040, renewed Dec. 26, 1953. O. G. Nov. 24.

Packaging machinery container opening apparatus, container loading apparatus, etc. J. L. Ferguson Company. 582,592–3, Nov. 24; Serial Nos. 527,493–4, published July 7, 1953.

Power driven apparatus. Eveready Briksaw Company. 583,019, Nov. 24; Serial No. 636,226.

Slushing, deliboring, and refining machine. The Cowles Company. 582,746, Nov. 24; Serial No. 630,763, published July 7, 1953.

Socket wrenches, socket wrench sets, socket wrench kits, etc. Indestro Manufacturing Corp. 582,680, Nov. 24; Serial No. 621,267, published June 30, 1953.

Sprayers, Hand and power operated, insecticide spray guns, etc. D. B. Smith & Company, Inc. 582,618, Nov. 24; Serial No. 589,686, published May 20, 1952.

Textile knitting machines and parts thereof. Hemphill Company. 582,689, Nov. 24; Serial No. 623,713, published July 7, 1953.

Trolleys for conveyors. Jervis B. Webb Company. 582,670, Nov. 24; Serial No. 619,116, published July 7, 1953.

CLASS 24

Ironing board covers and clothes pins. Stern Brothers. 582,814, Nov. 24; Serial No. 639,496, published Sept. 1, 1953.

CLASS 26

Digital computers and delay lines, Electronic. Electronic Computer Corporation. 582,738, Nov. 24; Serial No. 628,746, published Aug. 25, 1953.

Industrial process instruments for the control, recording or indication of process variables. The Foxboro Company. 582,642, Nov. 24; Serial No. 609,854, published Aug. 25, 1953.

Instrument that functions as a source of microwave signals. Kay Electric Company. 582,718, Nov. 24; Serial No. 627,948, published Aug. 18, 1953.

Instrument that is a narrow-band sweeping oscillator. Kay Electric Company. 582,719, Nov. 24; Serial No. 627,951, published Aug. 18, 1953.

Laboratory apparatus etc. Standard Scientific Supply Corp. 373,168, Nov. 28, 1939. Canceled Oct. 22, 1953. O. G. Nov. 24.

Machines for registering and indicating the number and nature of bets. Automatic Totalisators Limited. 582,735, Nov. 24; Serial No. 629,083, published Aug. 25, 1953.

Motion picture film. Dalton Film Company. 583,024, Nov. 24; Serial No. 642,022.

Scales, Weighing. The Brearley Company. 582,764, Nov. 24; Serial No. 631,846, published Aug. 25, 1953.

Testing apparatus, Automotive power plant. Sun Electric Corporation. 582,663, Nov. 24; Serial No. 616,459, published Aug. 25, 1953.

CLASS 27

Clocks, watches, watch movements, and parts thereof. L. Hummel. 582,951, Nov. 24; Serial No. 644,033, published July 28, 1953.

Watches. Bulova Watch Company, Inc. 582,956, Nov. 24; Serial No. 644,280, published July 28, 1953.

Watches. Zell Bros. 582,623, Nov. 24; Serial No. 598,771, published Nov. 27, 1951.

Watches and clocks and parts thereof. Longines-Wittnauer Watch Co., Inc. 582,598, Nov. 24; Serial No. 551,287, published Sept. 6, 1949.

Watches and parts of watches. Vendome Watch Vve M. Gurtner. 582,850, Nov. 24; Serial No. 641,404, published July 28, 1953.

Watches, chronometers with automatic calendar. Stolz Freres, S. A. Fabrique d'Horlogerie Angelus. 582,788, Nov. 24; Serial No. 634,499, published July 28, 1953. Class 27.

Watches, Wrist. M. Robbin. 582,776, Nov. 24; Serial No. 633,467, published July 28, 1953.

CLASS 28

Gems, Synthetic. Exquisite Gem Company. 582,754, Nov. 24; Serial No. 631,279, published May 19, 1953.

Jewelry. B. Emerson, Inc. 582,751, Nov. 24; Serial No. No. 631,098, published July 21, 1953.

Jewelry, Articles of. Oval Manufacturing Company, Inc. 582,697, Nov. 24; Serial No. 625,292, published July 21, 1953.

Pearl necklaces, pearl brooches, pearl bracelets, etc. Weinreich Brothers Company. 582,759, Nov. 24; Serial No. 631,704, published July 21, 1953.

Rings, Diamond. Gem Jewelry Company of Beaumont, Inc. 582,916, Nov. 24; Serial No. 637,868, published July 21, 1953.

Rings, Finger, and bracelets. Untermeyer, Robbins & Co. 582,784, Nov. 24; Serial No. 634,430, published July 21 1953

Silver wares. The Wardens and Commonalty of the Mystery of Goldsmiths of the City of London. 582,990, Nov. 24; Serial No. 631,081, published July 28, 1953.

Tableware, Silver plated. The American Silver Company. 306,890, renewed Oct. 3, 1953. O. G. Nov. 24.

CLASS 29

Brooms. D. W. Swindle. 582,973, Nov. 24; Serial No. 648,510, published Aug. 25, 1953.

Toothbrush and water-deflecting recessed handle, Combined. J. R. Hunneman, Jr. 582,644, Nov. 24; Serial No. 610,691, published Aug. 18, 1953.

Wiping cloths, Industrial. Industrial Wiping Cloth Co., Inc. 582,915, Nov. 24; Serial No. 637,776, published Aug. 18, 1953.

CLASS 30

China containers, Glazed. Liquid Veneer Corporation. 582,676, Nov. 24; Serial No. 620,426, published July 28, 1953.

Kitchenware and ovenware, table ware, etc. Aktiebolaget Rörstrands Porslinsfabriker. 582,673, Nov. 24; Serial No. 619,731, published July 28, 1953.

CLASS 32

Cabinets, Medicine. Atkins Plastic Products Co. 582,846, Nov. 24; Serial No. 641,263, published Aug. 25, 1953.

Furniture. Kent-Coffey Manufacturing Company. 582,661, Nov. 24; Serial No. 616,105, published Aug. 25, 1953.

Furniture. Kent-Coffey Manufacturing Company. 582,662, Nov. 24; Serial No. 616,107, published Aug. 25, 1953.

Furniture, Living room, bedroom furniture, dining room furniture, etc. Stern Brothers. 582,816, Nov. 24; Serial No. 639,517, published Aug. 25, 1953.

High chair and walker, Combination child's. The Baby Scope Company, Inc. 582,856, Nov. 24; Serial No. 641,598, published Aug. 25, 1953.

Mattresses. Serta Associates, Inc. 582,778, Nov. 24; Serial No. 633,880, published Aug. 25, 1953.

Mattresses and box springs. Massachusetts Mattress Company. 582,607, Nov. 24; Serial No. 575,153, published Aug. 25, 1953.

Rack, Shoe. Henry A. Enrich and Co. Inc. 582,910, Nov. 24; Serial No. 637,481, published Aug. 25, 1953.

Stands, Decorative metal table. Helen Cole, Inc. 582,716, Nov. 24; Serial No. 627,809, published Aug. 25, 1953.

Window shades. Breneman-Hartshorn Inc. 582,834, Nov. 24; Serial No. 640,601, published Aug. 25, 1953.

CLASS 34

Illumination equipment. Holophane Company, Inc. 583,005, Nov. 24; Serial No. 619,941.

Luminous safety device. Luma-Rim Corporation. 583,009, Nov. 24; Serial No. 625,812.

Perforated metal, for radiator enclosure and stove panels. Hendrick Manufacturing Company. 583,010, Nov. 24; Serial No. 626,458.

Ventilating fans and blowers. Dijam Enterprises Inc. 583,004, Nov. 24; Serial No. 616,085.

CLASS 35

Friction linings. S. p. A. Fren-Do. 582,684, Nov. 24; Serial No. 621,684, published Aug. 25, 1953.

Gaskets. Victaulic Company of America. 582,865, Nov. 24; Serial No. 641,877, published Aug. 25, 1953.

Gaskets and packing material. Birma Products Corporation. 582,928, Nov. 24; Serial No. 638,397, published Aug. 25, 1953.

Hose, Wire reinforced fabric. Callahan Zinc-Lead Company, Inc. 582,888, Nov. 24; Serial No. 642,941, published Aug. 25, 1953.

Piston ring expander springs. Sealed Power Corporation. 582,681, Nov. 24; Serial No. 621,336, published Aug. 25, 1953.

Rubber packing and hose of all kind, pneumatic tires etc. "Semperit" Oesterreichisch-Amerikanische Gummiwerke Aktiengesellschaft. 93,565, re-renewed Sept. 23, 1953. O. G. Nov. 24.

Tire covers, brake lining, gaskets, hose, etc. The Firestone Tire & Rubber Company. 306,085, renewed Sept. 5, 1953. O. G. Nov. 24.

CLASS 36

Harmonicas. D. Velkov. 582,709, Nov. 24; Serial No. 626,923, published Sept. 1, 1953.

Phonograph styli. General Electric Company. 582,626, Nov. 24; Serial No. 601,262, published Sept. 1, 1953.

CLASS 37

Articles made of paper. Will Ross, Inc. 582,747, Nov. 24; Serial No. 630,797, published Aug. 4, 1953.

Book, Physician's record and account. Colwell Publishing Company. 309,610, renewed Jan. 23, 1954. O. G. Nov. 24.

Boxed writing paper and correspondence envelopes and combination packages of sheet writing paper, etc. Lakeside Central Company. 582,821, Nov. 24; Serial No. 639,758, published Aug. 4, 1953.

Fillers, and tablets, School, composition books, and pencils. Walter Paper Company, Inc. 582,761, Nov. 24; Serial No. 631,769, published July 14, 1953.

Forms, Check register, and pocket filing sheets. Rand McNally & Company. 582,880, Nov. 24; Serial No. 642,491, published Aug. 11, 1953.
Forms, Printed. American Lithofold Corporation. 582,851, Nov. 24; Serial No. 641,418, published Aug. 11, 1953.
Labels. Paramount Paper Products Company. 582,701, Nov. 24; Serial No. 625,490, published Aug. 11, 1953.
Lead-pencils, colored pencils, copying-pencils, etc. Bleistiftfabrik Vormals Johann Faber Actien Gesellschaft. 41,130, re-renewed Sept. 22, 1953. O. G. Nov. 24.
Paper and board, Sulphate or sulphite. Union Bag & Paper Corporation. 582,693, Nov. 24; Serial No. 624,576, published Aug. 4, 1953.
Paper handkerchiefs. Marcalus Manufacturing Co. Inc. 582,691, Nov. 24; Serial No. 623,866, published Aug. 25, 1953.
Paper, Kraft, sulphite, and glassine. Riegel Paper Corporation. 582,782, Nov. 24; Serial No. 634,344, published July 14, 1953.
Paper napkins. Ashland Paper Mills, Inc. 582,667, Nov. 24; Serial No. 618,201, published July 28, 1953.
Paper napkins and paper towels. Daniels Manufacturing Company. 305,371, renewed Aug. 15, 1953. O. G. Nov. 24.
Paper pastry boards, Ornamental. Lady Mary, Incorporated. 582,650, Nov. 24; Serial No. 613,175, published Aug. 25, 1953.
Paper products. C. L. Rubinstein. 582,707, Nov. 24; Serial No. 626,749, published July 14, 1953.
Paper products. O. J. Smith. 582,610, Nov. 24; Serial No. 578,106, published Aug. 25, 1953.
Paper tissue handkerchiefs. Marcalus Manufacturing Co. Inc. 582,682, Nov. 24; Serial No. 621,475, published Aug. 18, 1953.
Paper toilet tissue. American Linen Supply Co. 582,837, Nov. 24; Serial No. 640,662, published Aug. 4, 1953.
Paper towels, Disposable, and paper bracket table covers. Premier Dental Products Co. 582,931, Nov. 24; Serial No. 638,859, published July 14, 1953.
Paper, Waxed. Blake, Moffitt & Towne. 582,600, Nov. 24; Serial No. 562,441, published July 28, 1953.
Papers, Opaque circular printing. Fraser Paper, Limited. 582,808, Nov. 24; Serial No. 636,473, published Aug. 4, 1953.
Pencils. L. & C. Hardtmuth, Inc. 582,786, Nov. 24; Serial No. 634,465, published July 28, 1953.
Pencils, Wood cased lead. Mallard Pencil Co. Inc. 582,708, Nov. 24; Serial No. 626,807, published Aug. 18, 1953.
Pens and mechanical pencils. The Holt Pen Company. 582,614, Nov. 24; Serial No. 584,061, published Aug. 4, 1953.
Pens and pencils. Eversharp, Inc. 582,863, Nov. 24; Serial No. 641,833, published July 21, 1953.
Plain and paper-backed foil products. Folleraft Printing Corporation. 582,753, Nov. 24; Serial No. 631,207, published Aug. 4, 1953.
Plastic covers, Transparent. W. A. McCabe. 582,700, Nov. 24; Serial No. 625,429, published Aug. 18, 1953.
Toilet tissue and toilet paper, wax paper, etc. Affiliated Retailers, Inc. 582,655, Nov. 24; Serial No. 614,683, published Aug. 4, 1953.
Work-books. South Western Publishing Co. 582,772, Nov. 24; Serial No. 632,801, published Aug. 18, 1953.

CLASS 38

Comic strip. NEA Service, Inc. 309,251, renewed Jan 9, 1954. O. G. Nov. 24.
Periodical. Management Service Publications, Inc. 582,958, Nov. 24; Serial No. 644,508, published Aug. 25, 1953.

CLASS 39

Belts and suspenders. Aristocrat Leather Products, Inc. 582,616, Nov. 24; Serial No. 586,722, published Apr. 7, 1953.
Boots, shoes, and slippers. Brevitt Shoes Limited. 582,672, Nov. 24; Serial No. 619,488, published Aug. 25, 1953.
Boots, shoes, and slippers; Children's. R. H. Fyfe & Co. 582,882, Nov. 24; Serial No. 642,512, published Aug. 4, 1953.
Coats and pants, Men's assorted. Hughes and Hatcher, Inc. 582,679, Nov. 24; Serial No. 621,266, published Aug. 18, 1953.
Coats and suits, Ladies'. Staple Coat Company. 582,628, Nov. 24; Serial No. 602,072, published July 21, 1953.
Fur garments and women's apparel. Furs by Robert. 582,602, Nov. 24; Serial No. 569,751, published Aug. 25, 1953.
Garments, Church. Harrison Brothers. 582,859, Nov. 24; Serial No. 641,724, published Aug. 25, 1953.
Hosiery. George Aldor Co., Inc. 582,795, Nov. 24; Serial No. 635,016, published July 28, 1953.
Hosiery. Feldan Brothers. 582,830, Nov. 24; Serial No. 640,202, published Aug. 25, 1953.
Hosiery, Ladies'. Millway Knitting Mills, Inc. 582,848, Nov. 24; Serial No. 641,318, published Aug. 18, 1953.
Hosiery, Ladies' nylon. M. M. Lilin. 582,664, Nov. 24; Serial No. 616,915, published Aug. 18, 1953.
Hosiery, Men's. Bear Brand Hosiery Co. 582,845, Nov. 24; Serial No. 641,000, published July 28, 1953.
Hosiery, Women's. Duchess Hosiery Corporation. 582,669, Nov. 24; Serial No. 619,074, published July 21, 1953.
Hosiery, Women's and misses'. The Mayer Company, Inc. 582,813, Nov. 24; Serial No. 639,432, published July 28, 1953.
Hosiery, Women's and misses'. Seamprufe Incorporated. 582,633, Nov. 24; Serial No. 607,644, published July 28, 1953.
Knitted outerwear garments for women, misses, and girls. Hilb & Co., Inc. 582,613, Nov. 24; Serial No. 583,692, published Nov. 28, 1950.
Piece goods, Cotton. Riegel Textile Corporation. 308,732, Dec. 19, 1933. Republished Nov. 24.
Piece goods, Cotton. Riegel Textile Corporation. 308,802, Dec. 19, 1933. Republished Nov. 24.
Rubber heels, Exchangeable. C. Sartori. 582,861, Nov. 24; Serial No. 641,745, published Aug. 4, 1953.
Shoes. Connolly Shoe Co. 308,709, Dec. 19, 1933. Republished Nov. 24.
Shoes, Leather. A. Posner. 91,690, re-renewed May 20, 1953. O. G. Nov. 24.
Shoes, Leather. M. N. Shrago. 582,840, Nov. 24; Serial No. 640,762, published Aug. 25, 1953.
Shoes, Leather, men's and boys' suits, outer shirts, and pajamas. R. H. Macy & Co., Inc. 582,596, Nov. 24; Serial No. 546,227, published Aug. 11, 1953.
Shoes, Men's and ladies'. Spiegel, Inc. 582,657, Nov. 24; Serial No. 615,468, published Aug. 25, 1953.
Shoes, Men's dress. Albert H. Weinbrenner Co. 582,606, Nov. 24; Serial No. 574,266, published June 26, 1951.
Shoes, Men's, women's and children's. Knapp Brothers Shoe Manufacturing Corporation. 582,932, Nov. 24; Serial No. 638,719, published Aug. 4, 1953.
Shoes, Women's. W. B. Coon Company. 582,853, Nov. 24; Serial No. 641,433, published Aug. 25, 1953.
Slipper and sock, Combination. V. Lebow. 538,764, Feb. 27, 1951. Canceled Oct. 9, 1953. O. G. Nov. 24.
Slips, panties, robes, etc., Children's and girls'. Wundies, Inc. 582,953, Nov. 24; Serial No. 644,205, published Aug. 18, 1953.
Sportswear. M. & D. Simon Company Incorporated. 582,599, Nov. 24; Serial No. 553,529, published Apr. 28, 1953.
Sportswear, Men's, women's, boys' and girls'. Highlander Sportswear, Inc. 582,911, Nov. 24; Serial No. 637,540, published Aug. 25, 1953.
Suits and dresses, Children's. Playnurse, Inc. 582,740, Nov. 24; Serial No. 630,910, published Aug. 18, 1953.
Underwear, Ladies' and misses'. Chevette, Inc. 582,887, Nov. 24; Serial No. 642,803, published Aug. 18, 1953.
Wearing apparel, Women's and girls'. H. L. Roberts. 582,594, Nov. 24; Serial No. 527,789, published Aug. 25, 1953.

CLASS 40

Art needlework device. A. J. Ciroli. 582,720, Nov. 24; Serial No. 627,996, published Aug. 18, 1953.
Braid, tape, textile fabrics stamped for drawn work, etc. Tobin, Sporn & Glaser, Inc. 305,756, renewed Aug. 22, 1953. O. G. Nov. 24.
Dress shields. I. B. Kleinert Rubber Company. 307,122, Oct. 17, 1933. Republished Nov. 24.

CLASS 41

Umbrellas. Annie Oakley Enterprises, Inc. 582,914, Nov. 24; Serial No. 637,742, published July 28, 1953.
Umbrellas, parasols and canes. Stern Brothers. 582,815, Nov. 24; Serial No. 639,505, published Aug. 18, 1953.

CLASS 42

Blankets. Beacon Manufacturing Company. 582,964, Nov. 24; Serial No. 644,956, published Aug. 25, 1953.
Blankets. North Star Woolen Mill Company. 582,959, Nov. 24; Serial No. 644,564, published Aug. 25, 1953.
Blankets. Pepperell Manufacturing Company. 582,961, Nov. 24; Serial No. 644,686, published Aug. 25, 1953.
Crib pads, crib sheets and crib blankets, Infants'. Arkwright Merchandising Corporation. 582,737, Nov. 24; Serial No. 628,994, published Aug. 25, 1953.
Fabrics. Joseph Bancroft & Sons Co. 582,963, Nov. 24; Serial No. 644,889, published Aug. 25, 1953.
Fabrics. Burlington Mills Corporation. 582,969, Nov. 24; Serial No. 645,535, published Aug. 25, 1953.
Fabrics in the piece, Knitted. I. A. Wyner & Co., Inc. 576,347, June 23, 1953. Canceled Oct. 22, 1953. O. G. Nov. 24.
Fabrics, Knitted. I. A. Wyner & Co., Inc. 570,810, Feb. 17, 1953. Canceled Oct. 22, 1953. O. G. Nov. 24.
Fabrics, Knitted, netted and textile. Ivler & Pollack. 582,924, Nov. 24; Serial No. 638,363, published Sept. 1, 1953.
Fabrics, Textile. Carwan Woolen Corporation. 582,810, Nov. 24; Serial No. 639,209, published Sept. 1, 1953.
Fabrics, Textile. Deering, Milliken & Co., Inc. 582,903, Nov. 24; Serial No. 637,041, published Sept. 1, 1953.
Fabrics, Textile. Deering, Milliken & Co., Inc. 582,965, Nov. 24; Serial No. 645,036, published Aug. 25, 1953.
Fabrics, Textile. D. B. Fuller & Co., Inc. 582,970, Nov. 24; Serial No. 645,797, published Sept. 1, 1953.

Fabrics, Textile. Wennonah Cotton Mills Company. 582,909, Nov. 24; Serial No. 637,342, published Sept. 1, 1953.
Fabrics, Window shade. Joseph Bancroft & Sons Co. 304,828, July 18, 1933. Republished Nov. 24.
Lace, Renaissance, cluny lace, and medallion lace; etc. Tobin, Sporn & Glaser, Inc. 305,747, renewed Aug. 22, 1953. O. G. Nov. 24.
Piece goods. Wamsutta Mills. 582,925, Nov. 24; Serial No. 638,380, published Sept. 1, 1953.
Piece goods, Cotton. Arthur Beir & Co., Inc. 582,779, Nov. 24; Serial No. 633,913, published Sept. 1, 1953.
Piece goods, Cotton. Riegel Textile Corporation. 308,802, Dec. 19, 1933. Republished Nov. 24.
Piece goods, Cotton. Wamsutta Mills. 582,873, Nov. 24; Serial No. 642,102, published Sept. 1, 1953.
Piece goods, Textile. The Harodite Finishing Company, Inc. 582,832, Nov. 24; Serial No. 640,395, published Sept. 1, 1953.
Piece goods, Waterproof. Harte & Co. Inc. 404,888, Dec. 28, 1943. Republished Nov. 24.
Piece goods, Woolen. Forstmann Woolen Co. 582,966, Nov. 24; Serial No. 645,133, published Aug. 25, 1953.
Rugs and carpets, Textile. Waite Carpet Company. 582,828–9, Nov. 24; Serial Nos. 640,180–1, published Sept. 1, 1953.
Rugs and carpets, Textile. Waite Carpet Co. 582,900, Nov. 24; Serial No. 636,617, published Sept. 1, 1953.
Rugs and carpets, Textile. Waite Carpet Company. 582,942–5, Nov. 24; Serial Nos. 643,517-20, published Sept. 1, 1953.
Rugs, Loom woven cut pile cotton. Beirug Mills of South Carolina. 582,960, Nov. 24; Serial No. 644,593, published Sept. 1, 1953.
Rugs, Wool braided. Topton Rug Manufacturing Co. 582,968, Nov. 24; Serial No. 645,443, published Aug. 25, 1953.
Sheets and pillow cases. Naumkeag Steam Cotton Company. 582,876, Nov. 24; Serial No. 642,155, published Sept. 1, 1953.
Shirting in the piece, Cotton broadcloth. Dan River Mills, Incorporated. 582,962, Nov. 24; Serial No. 644,743, published Aug. 25, 1953.
Thin, transparent or translucent sheets or films of vinyl resin plastic. Harte & Co. Inc. 441,303, Nov. 16, 1948. Republished Nov. 24.
Woven fibre rugs, woven fibre draperies, and fabrics. Patchogue-Plymouth Mills Corporation. 582,955, Nov. 24; Serial No. 644,252, published Sept. 1, 1953.

CLASS 43

Thread. Coats & Clark Inc. 582,946, Nov. 24; Serial No. 643,652, published Aug. 18, 1953.
Thread, Sewing. Threads, Incorporated. 308,300, Nov. 28, 1933. Republished Nov. 24.

CLASS 44

Bandaging material, Prepared. Johnson & Johnson. 306,367, renewed Sept. 19, 1953. O. G. Nov. 24.
Hypodermic-needle washer units, hypodermic-needle rinser units, etc. The Macalaster Bicknell Parenteral Corporation. 582,897, Nov. 24; Serial No. 636,425, published Aug. 25, 1953.
Paper adhesive strips. Le Bon-Carew. 582,809, Nov. 24; Serial No. 639,058, published Aug. 25, 1953.
Pessaries. Durex Products, Inc. 309,111, renewed Jan. 2, 1954. O. G. Nov. 24.
Respirators and gas masks. H. S. Cover. 308,567, Dec. 12, 1933. Republished Nov. 24.
Teething aid. Progressive Products. 583,012, Nov. 24; Serial No. 630,283.
Good-Toe protectors. I. Kiwad. 583,006, Nov. 24; Serial No. 620,346.

CLASS 45

Carbonated nonalcoholic, noncereal, maltless beverages. Clicquot Club Company. 309,229, renewed Jan. 9, 1954. O. G. Nov. 24.
Concentrate used in making maltless soft drinks. D. E. Winebrenner Co., Inc. 582,758, Nov. 24; Serial No. 631,453, published July 14, 1953.
Flavoring syrups and concentrates. National NuGrape Company. 582,617, Nov. 24; Serial No. 589,133, published July 24, 1951.
Non-alcoholic, maltless, flavored concentrate. Sunway Fruit Products. 582,763, Nov. 24; Serial No. 631,823, published Aug. 4, 1953.
Non-effervescent bottled mineral spring water. Flamingo Water Company. 582,742, Nov. 24; Serial No. 630,406, published Aug. 11, 1953.

CLASS 46

Bread, cakes, and pies. Dugan Brothers of New Jersey, Inc. 304,548, July 11, 1933. Republished Nov. 24.
Cakes and cookies. Perfection Biscuit Company. 93,903, re-renewed Oct. 21, 1953. O. G. Nov. 24.
Candy. Horshoes, Inc. 582,872, Nov. 24; Serial No. 642,077, published Aug. 11, 1953.
Candy. The Philadelphia, Inc. 583,001, Nov. 24; Serial No. 608,623.
Candy, Mint-flavoured. John Mackintosh & Sons Limited. 582,801, Nov. 24; Serial No. 635,228, published May 26, 1953.
Canned apples. Skyland Food Corporation. 582,675, Nov. 24; Serial No. 620,173, published Apr. 29, 1952.
Canned crabs, canned tuna, canned clams, etc. Nozaki Bros. & Co., Ltd. 306,862, renewed Oct. 3, 1953. O. G. Nov. 24.
Canned dog and cat food. Marco Pet Food Co. 582,835, Nov. 24; Serial No. 640,641, published May 26, 1953.
Canned foods. Armour and Company. 582,608, Nov. 24; Serial No. 575,798, published Aug. 25, 1953.
Canned fruit. Apple Growers Association. 309,738, renewed Jan. 30, 1954. O. G. Nov. 24.
Canned fruits; canned vegetables; fresh citrus fruits, etc. Guthrie Balfour & Co., Limited. 582,706, Nov. 24; Serial No. 625,883, published Aug. 25, 1953.
Canned ham. United Meat Packers. 582,899, Nov. 24; Serial No. 636,574, published July 7, 1953.
Canned tomatoes, tomato paste, olive oil, and cheese. Cedarville Packing Company. 582,622, Nov. 24; Serial No. 593,219, published Sept. 1, 1953.
Canned vegetables and fruits and frozen deciduous fruits. Stayton Canning Co. Co-Operative. 438,239, Apr. 13, 1948. Republished Nov. 24.
Chewing gum. Wm. Wrigley, Jr., Company. 304,384, July 4, 1933. Republished Nov. 24.
Chewing gum. Wm. Wrigley Jr., Company. 582,862, Nov. 24; Serial No. 641,819, published May 26, 1953.
Coffee. Cup Brew Coffee Bag Company. 583,002–3, Nov. 24; Serial Nos. 614,401–2.
Coffee. Standard Brands Incorporated. 582,729, Nov. 24; Serial No. 629,634, published June 30, 1953.
Coffee. Standard Brands Incorporated. 582,730, Nov. 24; Serial No. 629,633, published June 30, 1953.
Coffee, Roasted. W. B. Pickering, Jr. 582,615, Nov. 24; Serial No. 584,834, published June 5, 1951.
Compound of aqueous mono and di glycerols and other esters, used in the production of sponge cakes. Bak-Kraft Corporation, Ltd. 583,000, Nov. 24; Serial No. 603,399.
Corn, Ground. Supreme Feed Mills. 582,727, Nov. 24; Serial No. 629,827, published Aug. 11, 1953.
Corn meal, Self rising, and self-rising corn meal mix. Family Flour Institute Inc. 582,993, Nov. 24; Serial No. 640,556, published Aug. 18, 1953.
Corned beef, Uncooked cuts of, and uncooked cuts of corned pork. Roberts Turkey Brand Corned Meats. 582,611, Nov. 24; Serial No. 580,354, published June 30, 1953.
Dessert, Frozen dairy. Quality Chekd Dairy Products Association. 582,992, Nov. 24; Serial No. 625,124, published June 30, 1953.
Edible salad and cooking oils, coffee, canned fish, etc. Pastene & Co., Inc. 582,605, Nov. 24; Serial No. 572,323, published June 30, 1953.
Feed, Poultry. D. Glesby. 582,997, Nov. 24; Serial No. 584,492.
Feeds, Dairy. Park and Pollard Company, Inc. 582,806, Nov. 24; Serial No. 635,783, published May 26, 1953.
Flour, Self-rising. Waggoner-Gates Milling Company. 316,410, Aug. 28, 1934. Republished Nov. 24.
Fruits, Citrus. McPherson Heights Citrus Association. 95,223-4, re-renewed Feb. 3, 1954. O. G. Nov. 24.
Fruits, Fresh citrus. Arizona Citrus Growers. 582,781, Nov. 24; Serial No. 634,069, published May 26, 1953.
Fruits, Fresh citrus. Deerfield Groves Company. 582,971, Nov. 24; Serial No. 645,872, published Aug. 11, 1953.
Fudge mix, hot cake mix, corn bread mix, etc. Red-Ee Foods, Inc. 444,738, Nov. 18, 1952. Republished Nov. 24.
Grapes, Fresh. O. E. Farina. 362,809, Nov. 29, 1938. Republished Nov. 24.
Hams, Cured. Neesen Trading Company, Inc. 582,913, Nov. 24; Serial No. 637,605, published Aug. 25, 1953.
Hams, Cured. Neesen Trading Company, Inc. 582,923, Nov. 24; Serial No. 638,268, published Aug. 25, 1953.
Hors d'oeuvre, Appetizer. H. Dove. 582,904, Nov. 24; Serial No. 637,043, published Aug. 18, 1953.
Hot cake mix, corn bread mix, waffle mix and cake mix. Red-Ee Foods, Inc. 444,704, July 22, 1952. Republished Nov. 24.
Ice cream, butter and margarine. L. Peters. 583,016, Nov. 24; Serial No. 633,119.
Ice cream cones. The Maryland Baking Company. 582,803, Nov. 24; Serial No. 635,483, published Aug. 18, 1953.
Malt vinegar, steak sauce, Worcestershire sauce, etc. Allen Foods, Inc. 582,745, Nov. 24; Serial No. 630,743, published Aug. 25, 1953.
Malted milk base powders. The Dayton Food Products Co. 582,624, Nov. 24; Serial No. 599,502, published Nov. 18, 1952.
Maple sugar and maple syrup. Maple Producers Co-Operative Association, Inc. 582,722, Nov. 24; Serial No. 628,593, published June 30, 1953.
Monosodium glutamate. A. E. Staley Manufacturing Company. 583,008, Nov. 24; Serial No. 625,495.
Noodles. Sophie Tucker's Food Products Company, Incorporated. 303,976, renewed June 13, 1953. O. G. Nov. 24.
Nuts, raisins, Edible, and edible seeds. D. Der Hairbedian. 582,656, Nov. 24; Serial No. 615,319, published Aug. 11, 1953.
Olive oil. A. C. Alarcon. 582,646, Nov. 24; Serial No. 610,946, published Aug. 18, 1953.

Peanut butter, Chocolate flavored. Nash-Underwood, Inc. 582,638, Nov. 24; Serial No. 608,714, published June 30, 1953.
Rice and tea. F. M. Nonaka. 582,842, Nov. 24; Serial No. 640,890, published May 26, 1953.
Sauce, Liquid. S. Echevarria. 582,998, Nov. 24; Serial No. 593,059.
Strawberries, Fresh, and frozen fresh strawberries. California Berry Freezers, Inc. 582,731, Nov. 24; Serial No. 629,472, published May 26, 1953.
Vanilla extract. Eskimo Pie Corporation. 582,870, Nov. 24; Serial No. 642,025, published Aug. 25, 1953.
Vegetables, Fresh. K. Mets. 582,703, Nov. 24; Serial No. 625,740, published Aug. 11, 1953.
Vegetables, Fresh. P. P. Schoenburg. 582,934, Nov. 24; Serial No. 638,780, published May 26, 1953.
Wheat flour. Schultz, Baujan & Co. 305,907, renewed Aug. 29, 1953. O. G. Nov. 24.
Wheat-flour. Waggoner-Gates Milling Company. 145,341, Aug. 15, 1905. Republished Nov. 24.
Wheat flour. Wilkins-Rogers Milling Co., Inc. 304,505, July 11, 1933. Republished Nov. 24.
Wheat flour, self-rising flour, and feed. Wilkins-Rogers Milling Company, Inc. 582,711, Nov. 24; Serial No. 627,160, published June 16, 1953.

CLASS 47

Wine, Port. Robertson Bros. & Co. Limited. 307,436, renewed Oct. 24, 1953. O. G. Nov. 24.
Wines. Cadillac Wine Distributing Company. 314,228, June 19, 1934. Canceled Oct. 9, 1953. O. G. Nov. 24.
Wines. Robertson Bros. & Co. Limited. 306,233–5, renewed Sept. 12, 1953. O. G. Nov. 24.
Wines. Schenley Industries, Inc. 582,858, Nov. 24; Serial No. 641,695, published Aug. 18, 1953.
Wines. Wine Growers Guild. 582,645, Nov. 24; Serial No. 610,882, published Aug. 11, 1953.
Wines. B. Cribari & Sons. 307,453, Oct. 24, 1933. Republished Nov. 24.

CLASS 48

Beer. Fox Head Brewing Co. 582,894, Nov. 24; Serial No. 643,213, published Aug. 18, 1953.
Beer. Harry Mitchell Brewing Company. 582,712, Nov. 24; Serial No. 627,210, published Aug. 4, 1953.
Beer. Pittsburgh Brewing Company. 582,833, Nov. 24; Serial No. 640,525, published Aug. 4, 1953.
Malt beverages. T. B. Hall & Co., Limited. 306,513, Sept. 19, 1933. Republished Nov. 24.

CLASS 49

Alcoholic cordials and liqueurs. Societe Anonyme de la Vieille Cure de Cenon. 582,597, Nov. 24; Serial No. 546,244, published July 28, 1953.
Liqueur, Distilled alcoholic. The Drambuie Liqueur Co. Ltd. 582,826, Nov. 24; Serial No. 640,110, published Aug. 18, 1953.
Liqueurs. P. F. S. Heering. 582,595, Nov. 24; Serial No. 545,373, published Aug. 4, 1953.
Vodka. The American Distilling Company. 582,885, Nov. 24; Serial No. 642,591, published Aug. 11, 1953.
Whiskey. Jack Daniel Distillery. 582,789, Nov. 24; Serial No. 634,575, published July 28, 1953.
Whiskey. Esbeco Distilling Corporation. 582,603, Nov. 24; Serial No. 570,548, published Aug. 11, 1953.
Whiskey. Schenley Industries, Inc. 582,713, Nov. 24; Serial No. 627,224, published Aug. 4, 1953.
Whiskey. Schenley Distillers, Inc. 582,871, Nov. 24; Serial No. 642,050, published July 28, 1953.
Whiskey. Schenley Distillers, Inc. 582,886, Nov. 24; Serial No. 642,697, published Aug. 11, 1953.
Whiskey. The Weideman Company. 307,462, renewed Oct. 24, 1953. O. G. Nov. 24.
Whiskey and other potable distilled liquors. Consolidated Distilleries, Limited. 306,209, renewed Sept. 12, 1953. O. G. Nov. 24.
Whisky, Scotch. Sandy Fraser Limited. 582,936, Nov. 24; Serial No. 638,873, published Aug. 11, 1953.
Whisky, Scotch. MacDonald, Greenlees Limited. 582,775, Nov. 24; Serial No. 633,313, published Aug. 11, 1953.

CLASS 51

Bath oil, liquid skin balm, and cream deodorant. Better Brushes, Incorporated. 582,812, Nov. 24; Serial No. 639,412, published Aug. 25, 1953.
Cosmetics. Stanley Home Products, Inc. 582,822, Nov. 24; Serial No. 639,789, published Aug. 25, 1953.
Dandruff preparation. Dand-Rid'R Company. 582,699, Nov. 24; Serial No. 625,406, published Aug. 25, 1953.
Denture cleansers, Artificial. The Phillips & Benjamin Company. 310,067, renewed Feb. 13, 1954. O. G. Nov. 24.
Deodorant cream. A. Hernandez. 582,726, Nov. 24; Serial No. 629,894, published Aug. 25, 1953.
Depilating compound. Hercules Powder Company. 300,288, Jan. 10, 1933. Republished Nov. 24.
Face cream. The Andrew Jergens Company. 506,452, Feb. 8, 1949. Cancelled Oct. 9, 1953. O. G. Nov. 24. (Formerly class 6.)
Face cream. J. Strickland & Co. 582,864, Nov. 24; Serial No. 641,870, published July 14, 1953.
Face powder, perfume, lipstick, and cologne. Consolidated Cosmetics. 433,759, Oct. 28, 1947. Republished Nov. 24.
Face powders, and face creams. Yardley & Company Limited. 304,033, June 20, 1933. Republished Nov. 24.
Hair lightening preparations. Clairol Incorporated. 582,677, Nov. 24; Serial No. 620,803, published Aug. 18, 1953.
Hair oil, an all purpose skin cream, toilet water, etc. M. M. Mikulas. 582,917, Nov. 24; Serial No. 638,008, published Aug. 18, 1953.
Hair rinse. Aladdin Laboratories, Inc. 582,692, Nov. 24; Serial No. 624,522, published July 21, 1953.
Lipstick and cream rouge. Germaine Monteil Cosmetiques Corporation. 582,714, Nov. 24; Serial No. 627,398, published July 21, 1953.
Lipsticks and rouge. Elizabeth Arden, Inc. 306,693, Sept. 26, 1933. Republished Nov. 24.
Oil for bath water, Scenting and softening. Swiss Pine Importing Co., Inc. 582,780, Nov. 24; Serial No. 634,009, published July 21, 1953.
Perfume. Suzanne Laboratories, Inc. 582,765, Nov. 24; Serial No. 631,899, published July 28, 1953.
Perfume, cologne, and dusting powder. Irene Blake Cosmetics, Inc. 422,303, July 16, 1946. Republished Nov. 24.
Perfume, toilet water and cologne. Parfums Evyan Inc. 444,506, June 5, 1951. Republished Nov. 24.
Perfume, toilet water, lipstick, etc. Houbigant, Inc. 582,929, Nov. 24; Serial No. 638,419, published Aug. 18, 1953.
Perfumery. F. Hoyt & Company Limited. 46,216, Sept. 12, 1905. Republished Nov. 24.
Perfumes and toilet waters. R. P. Johns. 582,817, Nov. 24; Serial No. 639,572, published Aug. 25, 1953.
Preparation for use on the hair and scalp. Newbro Manufacturing Company. 582,690, Nov. 24; Serial No 623,774, published Oct. 28, 1952.
Preparations for improving and dyeing hair, dentifrice, facial cream, etc. Barclay & Barclay. 93,625, re-renewed Oct. 7, 1953. O. G. Nov. 24.
Solidified after shaving lotion, cologne and deodorant. The Lambert Company. 582,741, Nov. 24; Serial No. 630,137, published July 28, 1953.
Toilet preparations, Men's. Bourjois, Inc. 582,902, Nov. 24; Serial No. 636,876, published July 14, 1953.

CLASS 52

Chemical compound. Dri-Wear Fur Processing Co. 583,025, Nov. 24; Serial No. 642,450.
Chemical compounds for dry cleaning. The Fry Brothers Co. 582,835, Nov. 24; Serial No. 607,948, published Aug. 18, 1953.
Cleaning solvent. Ansul Chemical Company. 582,818, Nov. 24; Serial No. 639,605, published Aug. 25, 1953.
Cleanser, Alkali. National Cleanser Products Co., Inc. 582,920, Nov. 24; Serial No. 638,151, published Aug. 18, 1953.
Dry cleaning preparation. Windsor-Lloyd Products, Inc. 309,900, renewed Feb. 6, 1954. O. G. Nov. 24.
Paint and varnish remover, Liquid type. J. F. Kerns Company. 582,688, Nov. 24; Serial No. 623,057, published Jan. 6, 1953.
Preparation recommended as a cleansing agent. Lehn & Fink, Inc. 309,193, renewed Jan. 9, 1954. O. G. Nov. 24.
Product known as an organic reducing agent for the prescouring or cleansing of polyacrylic fibers, etc. Commonwealth Color & Chemical Company. 582,696, Nov. 24; Serial No. 625,256, published Aug. 25, 1953.
Shampoo, Hair. Associated Brands, Inc. 582,799–800, Nov. 24; Serial Nos. 635,213–4, published Aug. 25, 1953.

CLASS 100

Restaurant, luncheonette and bar services. Childs Company. 582,986, Nov. 24; Serial No. 636,689, published Aug. 18, 1953.
Technical research, development, design and consultant services. 582,979, Nov. 24; Serial No. 607,295, published Aug. 18, 1953.

CLASS 101

Advertising the goods and services of others. Star Time Production Corporation. 582,988, Nov. 24; Serial No. 642,053, published Aug. 18, 1953.
Advertising the goods and services of others. M. Wulff. 582,987, Nov. 24; Serial No. 637,631, published Aug. 25, 1953.
Printing, photoengraving, lithographing, type-setting, and retogravure work. R. R. Donnelly & Sons Company. 582,982, Nov. 24; Serial No. 627,562, published Aug. 18, 1953.
Sales promotion of radio advertisers' goods and services. Radio Dollars, Inc. 582,981, Nov. 24; Serial No. 623,911, published Aug. 25, 1953.

CLASS 103

Candies. J. M. Flanagan. 583,026, Nov. 24; Serial No. 649,087.
Cleaning and repairing of rugs, carpets, etc. Allen Carpet Cleaning and Rug Weaving Company. 582,980, Nov. 24; Serial No. 619,780, published Aug. 18, 1953.
Cleaning furs, fur garments and the linings thereof. National Superior Fur Dressing & Dyeing Co. 582,985, Nov. 24; Serial No. 634,702, published Aug. 18, 1953.

Gasoline filling station services. F. C. Lind. 582,983, Nov. 24; Serial No. 630,422, published Aug. 18, 1953.
Maintenance and cleaning of pipe lines, etc. National Water Main Cleaning Company. 582,977, Nov. 24; Serial No. 532,047, published Aug. 25, 1953.
Repairing children's furniture. Babee-Tenda License Corporation. 582,984, Nov. 24; Serial No. 633,246, published Aug. 18, 1953.
Typewriter maintenance and repair service. T. J. White. 583,027, Nov. 24; Serial No. 639,682.

CLASS 105

Conducting escorted travel tours. Sita-Adventure Trails, Inc. 582,989, Nov. 24; Serial No. 642,846, published Aug. 25, 1953.

CLASS 107

Conducting specialized educational courses in airline secretarial instruction and training. Kathleen Dell School, Inc. 582,978, Nov. 24; Serial No. 592,260, published Aug. 18, 1953

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 24TH DAY OF NOVEMBER, 1953

NOTE. Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Barry Corporation, The, assignee: *See*—
Lambert, Frank, Jr., and Crede.
Crede, Charles E.: *See*—
Lambert, Frank, Jr., and Crede.
Hester, William F., deceased, late of Drexel Hill, Pa., by Rohm & Haas Company, assignee, Philadelphia, Pa. Fungicidal salts of alkylene bisdithiocarbamic acid. Re. 23,742, Nov. 24.
Lambert, Frank, Jr., West Newton, and C. E. Crede, Winchester, Mass., assignors to The Barry Corporation. Vibration isolator. Re. 23,743, Nov. 24.
Magida, Herbert N., Chicago, Ill. Push and pull friction type exerciser. Re. 23,744, Nov. 24.
Rohm & Haas Company, assignee: *See*—
Hester, William F.

LIST OF PLANT PATENTEES

Tiret, Horace M., San Francisco, Calif. Fuchsia plant. 1,231, Nov. 24.

LIST OF DESIGN PATENTEES

Barkin, Aaron, New York, assignor to Practical Electric Products, Inc., Bronx, N. Y. Medicinal vaporizer. 170,903, Nov. 24.
Bausch & Lomb Optical Company, assignee: *See*—
Foss, Joan L.
Macaluso, Michael, Jr.
Bell, Hugo, Wilton, Conn., assignor to Bourjois, Inc., New York, N. Y. Combined perfume bottle and holder therefor or similar article. 170,904, Nov. 24.
Blanchaert, Leonard, Milan, Italy, assignor to Coltellerie Riunite di Caslino E. Maniago. Shears. 170,905, Nov. 24.
Bloom, Frances, Los Angeles, Calif. Sanitary dog toilet. 170,906, Nov. 24.
Boucher, Marcel, Eltingeville, N. Y. Adjustable brooch or similar article. 170,907, Nov. 24.
Boucher, Marcel, et Cie., assignee: *See*—
Semensohn, Raymonde.
Bourjois, Inc., assignee: *See*—
Bell, Hugo.
Carver, Richard N., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Spiral type rolling ball skill game apparatus. 170,908, Nov. 24.
Castiglione, Vincent, Detroit, Mich. Accordion grill. 170,909, Nov. 24.
Chaplin, Charles J., assignor to Chaplin Corporation, South Portland, Maine. Compartmented plate. 170,910, Nov. 24.
Chaplin Corporation, assignee: *See*—
Chaplin, Charles J.
Chernow, Michael, New York, N. Y. Necklace or similar article. 170,911, Nov. 24.
Collins, Robert C., Winnipeg, Manitoba, and William Saunderson, Vancouver, British Columbia, Canada. Sandwich steadier. 170,912, Nov. 24.
Coltellerie Riunite di Caslino E. Maniago, assignee: *See*—
Blanchaert, Leonard.
Continental Silver Co., Inc., assignee: *See*—
Gruen, Robert L.
Crump, B. T., Company, Inc., assignee: *See*—
Marston, Oliver F.
Dumbrell, Geoffrey N.: *See*—
Dumbrell, Kenneth G., and G. N.
Dumbrell, Kenneth G., Hawthorn near Melbourne, Victoria, and G. N. Dumbrell, Toorak near Melbourne, Victoria, Australia. Ear tag for sheep and other animals. 170,913, Nov. 24.
Emerson Radio and Phonograph Corporation, assignee: *See*—
Israel, Dorman D., Germer, and James.
Federal Glass Company, The, assignee: *See*—
Hamill, Virginia.
Foss, Joan L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle case. 170,914, Nov. 24.
G. M. Laboratories, Inc., assignee: *See*—
Palma, Joseph, Jr., and Leubner.
Garlock, Russell D., Minneapolis, Minn. Utility cart. 170,915, Nov. 24.
Germer, Arthur C.: *See*—
Israel, Dorman D., Germer, and James.
Gillarde, Walter, Chicago, Ill. Ash tray. 170,916, Nov. 24.
Gruen, Robert L., New York, N. Y., assignor to Continental Silver Co. Inc. Lazy Suzan or similar article. 170,917, Nov. 24.
H. M. H. Co., The, assignee: *See*—
Randall, Horace.
Hamill, Virginia, New York, N. Y., assignor to The Federal Glass Company, Columbus, Ohio. Glass tumbler or similar article. 170,918, Nov. 24.
Hamill, Virginia, New York, N. Y., assignor to The Federal Glass Company, Columbus, Ohio. Glass tumbler or similar article. 170,919, Nov. 24.
Hamill, Virginia, New York, N. Y., assignor to The Federal Glass Company, Columbus, Ohio. Glass tumbler or similar article. 170,920, Nov. 24.
Hamill, Virginia, New York, N. Y., assignor to The Federal Glass Company, Columbus, Ohio. Glass tumbler or similar article. 170,921, Nov. 24.
Hanovia Chemical & Mfg. Company, assignee: *See*—
Kaveckas, Benedictus K.
Hayman, Larry H., and A. M. Silveri, West Covina, Calif. Gameboard. 170,922, Nov. 24.
Israel, Dorman D., New Rochelle, A. C. Germer, North Merrick, and K. E. E. James, Laurelton, assignors to Emerson Radio and Phonograph Corporation, New York, N. Y. Radio receiver. 170,923, Nov. 24.
James, Kenneth E. E.: *See*—
Israel, Dorman D., Germer, and James.
Jensen, Albert C., Mountain View, Calif. Peudant or similar article. 170,924, Nov. 24.
Kaveckas, Benedictus K., Roselle, assignor to Hanovia Chemical & Mfg. Company, Newark, N. J. Infrared ray lamp. 170,925, Nov. 24.
Kelsey-Hayes Wheel Company, assignee: *See*—
Sinclair, Charles W.
Kettner, George E., Mamaroneck, N. Y. Infant's shoe. 170,926, Nov. 24.
Kosmak, George, San Francisco, Calif. Fireplace. 170,927, Nov. 24.
Langer, William M., Berlin, N. J. Stocking. 170,928, Nov. 24.
Lendrait, Kaspar, Chicago, Ill. Clock or similar article. 170,929, Nov. 24.
Leubner, Courtney A.: *See*—
Palma, Joseph, Jr., and Leubner.
Long, Joseph, Belleville, N. J. Sound producing device or similar article. 170,930, Nov. 24.
Macaluso, Michael, Jr., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Microscope illuminator. 170,131, Nov. 24.
Marston, Oliver F., assignor to B. T. Crump Company, Inc., Richmond, Va. Automobile seat cover. 170,932, Nov. 24.
Marx, Louis & Company, Inc., assignee: *See*—
Carver, Richard N.
Schigas, Joseph J.
Mell-Hoffmann Mfg. Co., assignee: *See*—
Reinecke, Jean O.
Neumann, Vera, Ossining, N. Y. Scarf. 170,933, Nov. 24.

Osers, Harry M., New York, N. Y. Pin, 170,934, Nov. 24.

Palma, Joseph, Jr., Berwyn, Ill., and C. A. Leubner, Milwaukee, Wis., assignors to G. M. Laboratories Inc., Chicago, Ill. Knife sharpener. 170,935, Nov. 24.

Pegram, Edwin B., Bozeman, Mont. Garden row marker. 170,936, Nov. 24.

Petry, John, New York, assignor to Raylite Electric Corp., Bronx, N. Y. Illuminable Christmas plaque. 170,937, Nov. 24.

Petry, John, New York, assignor to Raylite Electric Corp., Bronx, N. Y. Illuminable Christmas plaque. 170,938, Nov. 24.

Petry, John, New York, assignor to Raylite Electric Corp., Bronx, N. Y. Illuminable Christmas plaque. 170,939, Nov. 24.

Petry, John, New York, assignor to Raylite Electric Corp., Bronx, N. Y. Illuminable Christmas ornament. 170,940, Nov. 24.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,941, Nov. 24.

Practical Electric Products, Inc., assignee: *See*—
Barkin, Aaron.

Randall, Horace, Pawtucket, R. I., assignor to The H M H Co. Medallion. 170,942, Nov. 24.

Raylite Electric Corp., assignee: *See*—
Petry, John.

Reinecke, Jean O., Oak Park, assignor to Mell-Hoffmann Mfg. Co., Chicago, Ill. Barbecue brazier. 170,943, Nov. 24.

Robbins, Jack W., Chicago, Ill. Drinking glass. 170,944, Nov. 24.

Robitschek, Frances, assignor of one-half to G. Robitschek, Los Angeles, Calif. Combined magnifier and tweezers. 170,945, Nov. 24.

Robitschek, George, assignee: *See*—
Robitschek, Frances.

Sandler, Jacob, New York, N. Y. Shoe or similar article. 170,946, Nov. 24.

Saunderson, William: *See*—
Collins, Robert C., and Saunderson.

Scheppele, Clyde A., Las Vegas, Nev. Child's vehicle. 170,947, Nov. 24.

Schigas, Joseph J., Erie, Pa., assignor to Louis Marx & Co., Inc., New York, N. Y. Upright spiral rolling ball skill game apparatus. 170,948, Nov. 24.

Schlage, Ernest L., Burlingame, Calif., assignor to Schlage Lock Company. Door closer. 170,949, Nov. 24.

Schlage Lock Company, assignee: *See*—
Schlage, Ernest L.

Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Clip or similar article. 170,950, Nov. 24.

Sibley, Iris G., New Hope, Pa. Lady's head covering. 170,951, Nov. 24.

Silveri, Anthony M.: *See*—
Hayman, Larry H., and Silveri.

Sinclair, Charles W., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Wheel trim or similar article. 170,952, Nov. 24.

Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.

Turak, Anthony, Cleveland, Ohio. Mixing and dispensing faucet. 170,953, Nov. 24.

Urda, Walter, Rockville Centre, N. Y. Chair. 170,954, Nov. 24.

Vavoulis, Andrew J., St. Paul, Minn. Plant stand. 170,955, Nov. 24.

Wagner, Elmer A., Portland, Oreg. Tractor. 170,956, Nov. 24.

Womack, Bryan W., Fort Worth, Tex. Show cage for birds. 170,957, Nov. 24.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 24TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbett, William A., Jr., and F. C. Diaz, Duluth, Minn., assignors to United States Steel Corporation. Blowing in banked blast furnaces. 2,660,524, Nov. 24.

Abraham, Herbert, assignor to The Ruberoid Co., New York, N. Y. Shingle. 2,660,135, Nov. 24.

Abraham, Herbert, assignor to The Ruberoid Co., New York, N. Y. Shingle. 2,660,136, Nov. 24.

Abraham, Herbert, assignor to The Ruberoid Co., New York, N. Y. Shingled roofing. 2,660,137, Nov. 24.

Abt, Franz, Essen-Margarethenhoehe, Germany, assignor of one-half to Karl Adler, Washington, D. C. Percussive tools. 2,660,153, Nov. 24.

Acken, Thomas L., Jr.: *See*—
Jenkins, Edward M., and Acken.

Ackerman, James E., Devon, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Strip-collapsing device for sewing machines. 2,660,139, Nov. 24.

Ackley, Robert A., San Diego, Calif., assignor to Republic Flow Meters Company, Chicago, Ill. Flow measuring device. 2,660,057, Nov. 24.

Adams, David, Concord, Mass. Eggs having artificial shells. 2,660,530, Nov. 24.

Adams, Francis V.: *See*—
Daly, George F., and Adams.

Adler, Karl, assignee: *See*—
Abt, Franz.

Adrema Maschinenbau G. m. b. H., assignee: *See*—
Ostwaldt, Erich.

Aeronca Manufacturing Corporation, assignee: *See*—
Kalb, George L.

Aerovox Corporation, assignee: *See*—
Brown, Harold J.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Koepsell, Harold J., Tsuchiya, and Hellman.

Aigrain, Pierre R., assignor to International Standard Electric Corporation, New York, N. Y. Signal translation system. 2,660,618, Nov. 24.

Air Force, United States of America as represented by the Secretary of, assignee: *See*—
Stankey, John E.

Air-Maze Corporation, assignee: *See*—
Brixius, Jacob K., and Savitz.

Air Products, Incorporated, assignee: *See*—
Pool, Leonard P.

Akron Hardware Mfg. Corp., assignee: *See*—
Gerson, Fred.

Aktiebolaget Elektrolux, assignee: *See*—
Forsberg, Axel A.

Alderson, Ross C.: *See*—
Schuck, Oscar H., and Alderson.

Alex, Louie, Oakland, Calif. Clip for precluding rotation of segments of oil-retaining ring in journals. 2,660,486, Nov. 24.

Allen, Charles F., Stamford, Conn., W. M. Fitzsimmons, Sacramento, Calif., and R. B. Booth, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Depression of sulfide minerals with zinc cyanide ammoniate. 2,660,306, Nov. 24.

Allen, Charles F., Stamford, Conn., W. M. Fitzsimmons, Sacramento, Calif., and R. B. Booth, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Depression of sulfide zinc minerals from concentrates and ores. 2,660,307, Nov. 24.

Allen, Chester S., Warren, Pa. Applying sealing spouts for lighter fluid cans. 2,660,355, Nov. 24.

Allen, Gilbert S., Los Angeles, Calif. Roller wedge lock nut. 2,660,212, Nov. 24.

Allied Chemical & Dye Corporation, assignee: *See*—
Erchak, Michel, Jr.
Skeuse, Thomas J., Jennings, and Haught.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Ehlinger, Arnold H.
King, William F.
Scranton, Charles J.
Worrell, Robert L., Lehker, and Vogelsang.

Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Arvidsson, Aigot.
Särnö, Bo G. A.

Alm, Richard. *See*—
Riley, Joseph J., and Alm.

Alonge, Vera, assignee: *See*—
Simpson, Hobart A.

Alston Manufacturing Co., assignee: *See*—
Stoner, Lewis D.

Altar, William, Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Wave guide attenuator. 2,660,713, Nov. 24.

Amana Refrigeration, Inc., assignee: *See*—
Cooper, La Mar S.

Amen, Nicholas C., Glendale, Calif. Variable antenna. 2,660,675, Nov. 24.

American Brass Company, The, assignee: *See*—
Macaulay, William R., and Coolidge.

American Coin Changer Corp., assignee: *See*—
York, Ernest E.

American Cyanamid Company, assignee: *See*—
Allen, Charles F., Fitzsimmons, and Booth.
Hill, Alfred G., Medcalf and Sisco.
Scholz, Theodore F., and Smith.
Von, Isaiah.
Young, Richard W., Blodinger and Welcher.

American Laundry Machinery Company, The, assignee: *See*—
Hanney, Angus F.

American Locomotive Company, assignee: *See*—
Tromel, Frederic C.

American Machine & Foundry Company, assignee: *See*—
Gampp, George E.
McGinley, James J.

American Metal Products Company, assignee: *See*—
Laurie, Floyd S.

American Optical Company, assignee: *See*—
Bernhelm, Daniel P., and Silverberg.
McCallum, Frederick C.

American Viscose Corporation, assignee: *See*—
Stanley, Richard W.

Ames, William L., Middle River, and F. W. Hennessey, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Article-handling apparatus. 2,660,287, Nov. 24.

Anderson Box Company, assignee: *See*—
Ferguson, Kenneth C.

Anderson, David E., assignor to Thompson Products, Inc., Cleveland, Ohio. Carburetor supplementary fuel feed device with auxiliary fuel pump. 2,660,417, Nov. 24.

Anderson, Robert J.: *See*—
Noon, T. Cyril, and Anderson.

André, Henri, Montmorency, France, assignor to La Soudure Electrique Languepin. Low voltage electrochemical condenser of high specific gravity. 2,660,695, Nov. 24.

Anetsberger Brothers, Inc., assignee: *See*—
Anetsberger, Joseph F. and F. A.

Anestberger, Frank A.: *See*—
Anetsberger, Joseph F. and F. A.

Anestberger, Joseph F., Northbrook, and F. A. Anetsberger, Chicago, assignors to Anetsberger Brothers, Inc., Northbrook, Ill. Dough slicing apparatus. 2,660,133, Nov. 24.

Appleton, Arthur L., Northbrook, Ill. Automobile seat structure. 2,660,223, Nov. 24.

Arisman, Mervin B.: *See*—
Daily, Arthur M., and Arisman.

Arkell Safety Bag Company, assignee: *See*—
Doyle, James F.

Armour and Company, assignee: *See*—
Hawkins, James R.

Armstrong, John, Yonkers, N. Y. Fork straightening pliers. 2,660,078, Nov. 24.

Arnott, Henry D.: *See*—
Simmons, Lewis M., Simmons, and Arnott.

Arone, Nicholas F., Upper Darby, Pa., assignor to General Electric Company. Electric insulating material. 2,660,215, Nov. 24.

Artis, Edward J., Boise, Idaho. Flue section for providing balanced draft. 2,660,162, Nov. 24.

Arvidsson, Aigot, Ludvika, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Arrangement in transductor-controlled rectifier cooperating with storage battery and load. 2,660,702, Nov. 24.

Ashworth, Joseph, and A. Firth, assignors to John T. Hardaker, Limited, Bradford, England. Jacquard. 2,660,202, Nov. 24.

Aspelin, Leslie L.: *See*—
Curtis, William H., Aspelin, and Carter.

Atlas Powder Company, assignee: *See*—
McFarland, David M.

Attwood, John G., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Vibration isolating means for sewing units. 2,660,140, Nov. 24.

Austin, Baseum O., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electromagnetic relay. 2,660,641, Nov. 24.

Automatic Electric Laboratories, Inc., assignee: *See*—
Kessler, Frank.

Averill, Charles C., assignor to Union Steel Products Company, Albion, Mich. Collapsible stacking receptacle. 2,660,328, Nov. 24.

Axe, William N., and W. B. Whitney, Bartlesville, Okla., assignors to Phillips Petroleum Company. Lubricants. 2,660,562, Nov. 24.

Babski, Martin F., Pittsburgh, Pa. Saucer grid. 2,660,040, Nov. 24.

Baca, Hugo H., Corpus Christi, assignor of one-third to H. J. Robins, Houston, and one-third to E. Goldstein, San Antonio, Tex. Well pump. 2,660,119, Nov. 24.

Bachofen, Hans, Bulach, Switzerland. Twisting frame. 2,660,023, Nov. 24.

Backofen, E. Ryan, E. J. Dunham, and S. R. Skellenger, Battle Creek, assignors to Clark Equipment Company, Buchanan, Mich. Industrial truck. 2,660,325, Nov. 24.

Badische Anilin-& Soda-Fabrik Aktiengesellschaft, assignee: *See*—
Michelitsch, Walter.

Baer, Louis, Bronx, N. Y. Toaster. 2,660,108, Nov. 24.

Bailey, Julian C., Lexington, N. C. Tool for assembling and disassembling electrical connectors. 2,659,965, Nov. 24.

Baird, Raymond C., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif. Stabilized suspension line. 2,659,913, Nov. 24.

Baldwin-Lima-Hamilton Corporation, assignee: *See*—
Corby, Joseph F.

Ball, Charles O., Maumee, Ohio. Sterilizing glass containers. 2,660,513, Nov. 24.

Banes, Fred W., and S. B. Lippincott, Westfield, N. J., assignors to Standard Oil Development Company. Mineral oil containing substituted polyolefins. 2,660,563, Nov. 24.

Barocca, Aldo J., and G. and F. R. Seavey, Alton, assignors to Olin Industries, Inc., East Alton, Ill. Blasting cap. 2,660,118, Nov. 24.

Bashark, Nicholas, Dayton, assignor to The Parker Appliance Company, Cleveland, Ohio. Valve sealing element. 2,660,398, Nov. 24.

Bayus Electric, Incorporated, assignee: *See*—
Finizie, Tomun, and Connolly.

Bear, Robert, Wellington, Ohio. Riding sulky for power-operated mowing units. 2,660,447, Nov. 24.

Beck, Howard G., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Refrigerator gasket. 2,659,940, Nov. 24.

Beck, Howard G., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Refrigerator gasket. 2,659,941, Nov. 24.

Beck, Howard G., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Gasket. 2,660,275, Nov. 24.

Beck, Howard G., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Article isolating and shock absorbing shipping container. 2,660,295, Nov. 24.

Beckham, Jefferson R., Atlanta, Ga. Scribing gauge. 2,659,981, Nov. 24.

Beebe, Dan D., Seattle, Wash. Jig saw. 2,660,206, Nov. 24.

Bell & Gossett Company, assignee: *See*—
Hofmeister, Maurice H.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bowen, Arnold E.
Doba, Stephen, Jr., and Rieke
Harrison, Charles W.
Koerner, Lawrence F.
Oliver, Bernard M.
Walsh, Edward J.

Bellows, Foy E., Dallas, Tex. Hand supportable clamp and bench mount therefor. 2,660,079, Nov. 24.

Bendix Aviation Corporation, assignee: *See*—
Blackman, Birt G., and Nelson.
Blancher, Donald W.
Greene, Sidney R.
Horne, Emerson
Meddock, Alvin A.
Ochtman, Leonard.
Ter Veen, Louis A. G.

Benkoe, Ivan, Hampstead, London, England. Device for accurately setting calipers. 2,659,977, Nov. 24.

Bennett, Andrew E., Weymouth, assignor to Mason-Neilan Regulator Company, Boston, Mass. Sheet moisture drying machine control mechanism. 2,659,987, Nov. 24.

Berglind, Nils W., Stureby, Sweden. Machine of the household type for cutting, mashing, and whipping fruits, vegetables, and the like. 2,660,210, Nov. 24.

Berglind, Nils W., Stureby, Sweden. Centrifugal machine for the recovery of liquid out of raw vegetable food. 2,660,211, Nov. 24.

Bergson, Gustav, Germantown, Pa., assignor to Radio Corporation of America. High input impedance semiconductor amplifier. 2,660,624, Nov. 24.

Bergstein, Frank D.: *See*—
Haas, Walter, and Bergstein.

Berkelhamer, Louis H., Chicago, assignor to D. T. Siegel, Glencoe, Ill. Resistor and manufacture. 2,660,653, Nov. 24.

Berman, Arthur F., Saginaw, Mich. Article carrier means for automobile trunks. 2,660,349, Nov. 24.

Bernheim, Daniel P., Southbridge, and C. G. Silverberg, Sturbridge, assignors to American Optical Company, Southbridge, Mass. Lens blocking device. 2,660,011, Nov. 24.

Berry, David R.: *See*—
Smith, Blanchard D., and Berry.

Bertele, Ludwig, assignor to Henry Wild Surveying Instruments Supply Co. Ltd., Heerbrugg, Switzerland. Telescope objective. 2,660,093, Nov. 24.

Bertello, Enrico, Borgo San Dalmazzo, Italy. Selective delivery filing cabinet. 2,660,503, Nov. 24.

Bertram, Sidney, Los Angeles, Calif. Sweep circuit. 2,660,691, Nov. 24.

Bertrand, Leandre M., Montreal, Quebec, assignor to The Grissol Bread Specialties Ltd., Rosemount, Quebec, Canada. Manufacturing bread sticks. 2,660,134, Nov. 24.

Besal, Joseph A.: *See*—
Camp, Thomas P., Thorsen, and Besal.

Bethea, Sam R., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Apparatus for catalytic conversion of hydrocarbons. 2,660,520, Nov. 24.

Biasi, Angelo, Wilkes-Barre, Pa. Universally mounted artificial pneumatic hand. 2,659,896, Nov. 24.

Bigwood, Joshua, & Son, Limited, assignee: *See*—
Tinley, Ernest L., and Hallett.

Billar, Louis L., Phoenix, Ariz. Identification code on sound records. 2,660,621, Nov. 24.

Binks, Melvin J., assignor to Republic Patent Corporation, Chicago, Ill. Ball projector. 2,660,157, Nov. 24.

Binks, Melvin J., assignor to Republic Patent Corporation, Chicago, Ill. Projecting device. 2,660,158, Nov. 24.

Birosh, John W., Roulette, Pa. Insecticide spray. 2,660,251, Nov. 24.

Black, Donald W., Pompton Plains, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Selenium rectifier. 2,660,698, Nov. 24.

Blackman, Birt G., and D. O. Nelson, Los Angeles, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Paper feed mechanism for recorders. 2,660,380, Nov. 24.

Blancher, Donald W., assignor to Bendix Aviation Corporation, North Hollywood, Calif. High-frequency coupling system. 2,660,710, Nov. 24.

Blanding, Forrest H., Cranford, N. J., assignor to Standard Oil Development Company. Combination process for producing lubricating oils. 2,660,552, Nov. 24.

Blatz, Albert V., Thiensville, assignor to A. O. Smith Corporation, Milwaukee, Wis. Crate lifting attachment. 2,660,327, Nov. 24.

Bliss, Harvey N., Windsor, and O. Wild, Jr., West Hartford, assignors to Veeder-Root Incorporated, Hartford, Conn. Control means for liquid dispensing apparatus. 2,660,335, Nov. 24.

Bliss, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastener inserting mechanism. 2,659,886, Nov. 24.

Blodinger, Jack: *See*—
Young, Richard W., and Blodinger.

Blomquist, George, assignee: *See*—
Hagelfeldt, Lydia A.

Blondel, Alfred, Paris, France. Automatic blending device for liquids. 2,660,190, Nov. 24.

Bloom, Frank A. L., Detroit, Mich. Consumer package for fresh fruits or the like. 2,660,529, Nov. 24.

Bloom, Hdikó E., Closter, N. Y. Eyeglass attachment. 2,660,092, Nov. 24.

Bogan, Charles W., Washington, D. C., and R. L. Ginsel, Burnt Mills Hills, Md. Bottle and holder therefor. 2,659,920, Nov. 24.

Bohnet, Emil, Buffalo, N. Y. Indicating device. 2,659,979, Nov. 24.

Booth, Herbert B.: *See*—
Allen, Charles F., Fitzsimmons, and Booth.

Bopp, Edward O.: *See*—
Bopp, Frederick W. and E. O., and Taylor.

Bopp, Frederick W. and E. O., Kansas City, Mo., and E. F. Taylor, Indianapolis, Ind. Vertical window shutter. 2,660,237, Nov. 24.

Bourne, Roland B., West Hartford, and J. P. Tyskewicz, assignors to The Maxim Silencer Company, Hartford, Conn. Silencer with low back pressure. 2,660,257, Nov. 24.

Bourne, Roland B., West Hartford, and J. P. Tyskewicz, assignors to The Maxim Silencer Company, Hartford, Conn. Baffle type muffler with a plurality of outlet conduits. 2,660,258, Nov. 24.

Bousson, Robert: *See*—
Doussain, Robert, Bousson, and Perrier.

Bontwell, William R., Norfolk, Va. Waste carton crusher. 2,660,110, Nov. 24.

Bowden, Andrew T., Jesmond, Newcastle-upon-Tyne, A. Muller, Penwortham, Preston, P. Kolb, and W. Hryniszak, and O. Zadnick, Whitley Bay, assignors of one-sixth to C. A. Parsons & Company Limited, Newcastle-upon-Tyne, England. Freewheeling clutch between a compressor turbine and an output turbine. 2,660,033, Nov. 24.

Bowditch, Hoel L., assignor to The Foxboro Company, Foxboro, Mass. Adjustable set point arm for control instruments. 2,660,146, Nov. 24.

Bowditch, Hoel L., assignor to The Foxboro Company, Foxboro, Mass. Detachable index arm unit for measuring instruments. 2,660,147, Nov. 24.

Bowen, Arnold E., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultrahigh frequency resonator. 2,660,667, Nov. 24.

Bowman, Norman J., Gary, Ind., assignor to Standard Oil Company, Chicago, Ill. Removal of oxygenated organic compounds from hydrocarbon mixtures thereof. 2,660,600, Nov. 24.

Bowser, Inc., assignee: *See*—
Harks, Walter M.
May, Edwin M.

Box, Merrell L., Buena Park, and R. W. Cason, assignors to Merrell Manufacturing Company, Fullerton, Calif. Machine for detecting and ejecting improperly labeled cans. 2,660,304, Nov. 24.

Boyce, John, San Jose, and D. W. Hayes, Campbell, assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Machine for closing cartons. 2,660,012, Nov. 24.

Boyko, John, Detroit, and E. W. McCaul, Birmingham, assignors to Jervis B. Webb Company, Detroit, Mich. Transfer mechanism for floor propellers. 2,660,127, Nov. 24.

Braden, Frank L., Griswold, and H. R. Godfrey, Elliott, Iowa, said Godfrey assignor to said Braden. Sloping attachment for graders. 2,659,988, Nov. 24.

Brane, Maxwell D., Wexford, and A. McLanahan, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Emergency dynamic braking system. 2,660,126, Nov. 24.

Breeden, Francis C., and L. C. Eisaman, Flushing, N. Y., assignors to Sylvania Electric Products Inc. Traveling wave tube. 2,660,690, Nov. 24.

Bretter, Walter, Johannesburg, Transvaal, Union of South Africa. Washing machine. 2,660,045, Nov. 24.

Brickman, Alan E., Worcester, Mass., assignor to United States Steel Corporation. Barbed wire structure. 2,660,406, Nov. 24.

Bridge, Walter W., San Francisco, Calif. Desk with rotating drawer. 2,660,504, Nov. 24.

Briggs & Stratton Corporation, assignee: *See*—
Jacobi, Edward N.

Briney, James W., assignee: *See*—
Briney, Ottis R., Jr.

Briney, Ottis R., Jr., Pontiac, Mich., assignor of one-half to J. W. Briney. Adjustable coupling. 2,660,463, Nov. 24.

Briscoe, E. V., & Son, assignee: *See*—
Briscoe, Ernest V.

Briscoe, Ernest V., assignor to E. V. Briscoe & Son, Kerman, Calif. Automatic control mechanism for cotton harvesters. 2,660,015, Nov. 24.

British Industrial Solvents Limited, assignee: *See*—
Lacey, Richard N.

Brixius, Jacob K., Cleveland, and C. W. Savitz, South Euclid, assignors to Air-Maze Corporation, Cleveland, Ohio. Support for charging electrodes for electrostatic filters. 2,660,260, Nov. 24.

Bröhl, August: *See*—
Leitz, Ernst, Jr., Engelmann, and Bröhl.

Broussard, Robert F., Burbank, Calif., H. J. Miller and L. D. Sollenberger, Chicago, Ill., and S. L. Christensen, Los Angeles, Calif., assignors, by mesne assignments, to Miller Meters, Inc., Chicago, Ill. Parking meter. 2,660,283, Nov. 24.

Brown, Cicero C., Houston, Tex. Wellhead apparatus. 2,660,248, Nov. 24.

Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Slotted antenna system. 2,660,674, Nov. 24.

Brown, Harold J., Mattapoisett, assignor to Aerovox Corporation, New Bedford, Mass. Electrical vibrator. 2,660,639, Nov. 24.

Bruns, Herbert F.: *See*—
Gullixson, Harold R., and Bruns.

Bucyrus-Erie Company, assignee: *See*—
Davidson, Trevor O.
Meier, Johann B.
Mork, George W., Marson, and Paulsen.

Budd Company, The, assignee: *See*—
Smith, George C.

Buehner, Howard A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Flexible seam testing device. 2,660,053, Nov. 24.

Building Products Limited, assignee: *See*—
Lawson, William A.

Bulcao, Wilbur H., assignor to Horix Manufacturing Company, Pittsburgh, Pa. Filling machine valve. 2,660,359, Nov. 24.

Bungardt, Walter, assignor to Th. Goldschmidt A.-G., Essen, Germany. Manufacture of cerium-iron-alloy flints. 2,660,301, Nov. 24.

Burckhardt, Alfred: *See*—
Herrick, William W., and Burckhardt.

Burgess, James Q., West Hartford, assignor to Plax Corporation, Hartford, Conn. Method and apparatus for making articles from biaxially oriented thermoplastic sheet material. 2,659,934, Nov. 24.

Burke, James P., Poland, assignor to M. M. Fibus and J. Marcus, Youngstown, Ohio. Air pump and accumulator. 2,660,334, Nov. 24.

Burns, Fred J., Saginaw, Mich., assignor to The Columbia Mills, Inc., Syracuse, N. Y. Center bar for flexible storm windows. 2,660,239, Nov. 24.

Burt, William C., assignor to Clair Manufacturing Company, Inc., Olean, N. Y. Surface finishing machine. 2,660,007, Nov. 24.

Bush, Wilkie L., and A. M. Daily, assignors to Chicago Telephone Supply Corporation, Elkhart, Ind. Electric switch. 2,660,634, Nov. 24.

Butler, Donald G., Millersburg, Ohio. Electric arc production of combustible gases. 2,660,556, Nov. 24.

Cable-Link Corporation, assignee: *See*—
Daigle, Leo T.

Cade, William M., and B. E. Derry, Davenport, Iowa, assignors to Kelsey-Hayes Wheel Company, Detroit, Mich. Coupling pin hitch. 2,660,444, Nov. 24.

Cahill, William J., Minneapolis, Minn. Package opener. 2,659,967, Nov. 24.

Calamore, John P., Flushing, assignor to City Tank Corporation, Corona, N. Y. Tail gate loader and packer. 2,660,326, Nov. 24.

California Research Corporation, assignee: *See*—
Sigworth, Harrison W., and Fries.

Calingaert, George, Geneva, assignor to Ethyl Corporation, New York, N. Y. Stable lead alkyl compositions and a method for preparing the same. 2,660,591, Nov. 24.

Calingaert, George, Geneva, assignor to Ethyl Corporation, New York, N. Y. Stable lead alkyl compositions and a method for preparing the same. 2,660,592, Nov. 24.

Calingaert, George, Geneva, assignor to Ethyl Corporation, New York, N. Y. Stable lead alkyl compositions and a method for preparing the same. 2,660,593, Nov. 24.

Calingaert, George, Geneva, assignor to Ethyl Corporation, New York, N. Y. Stable lead alkyl compositions and a method for preparing the same. 2,660,594, Nov. 24.

Calingaert, George, Geneva, assignor to Ethyl Corporation, New York, N. Y. Stable lead alkyl compositions and a method for preparing the same. 2,660,595, Nov. 24.

Calingaert, George, Geneva, assignor to Ethyl Corporation, New York, N. Y. Stable lead alkyl compositions and a method for preparing the same. 2,660,596, Nov. 24.

Calkins, Joseph C.: *See*—
Williams, Lynn B., and Calkins.

Callahan, Ezra L., Inglewood, Calif. Slope level. 2,659,976, Nov. 24.

Camp, Thomas P., Arlington Heights, Ill., J. I. Thorsen, Philadelphia, Pa., and J. A. Besal, assignors to United States Gypsum Company, Chicago, Ill. Self-cleaning gate for mixing machines. 2,660,416, Nov. 24.

Campbell, David J., Richmond Hill, S. P. McCabe, Jr., Freeport, and H. Harris, Jr., Cedarhurst, N. Y., assignors to The Sperry Corporation. Gun directing system. 2,660,371, Nov. 24.

Canadian Copper Refiners Limited, assignee: *See*—
Schloen, John H., and Ekler.

Cappello, Triest J., Seneca Falls, N. Y. Coffee percolator. 2,660,107, Nov. 24.

Carey, Frederick H., assignor to Dowty Equipment Limited, Cheltenham, England. Automatic torch ignition system for internal-combustion turbine engines. 2,660,233, Nov. 24.

Carlesimo, John J., Detroit, Mich. Excavating bucket. 2,660,323, Nov. 24.

Carquillat, Pierre H., Monthey, Switzerland. Photographic exposure calculator. 2,660,375, Nov. 24.

Carter, J. C., Company, The, assignee: *See*—
Curtis, William H., Aspelin, and Carter.

Carter, James C.: *See*—
Curtis, William H., Aspelin, and Carter.

Casco Products Corporation, assignee: *See*—
Cone, Joseph H.

Cason, Robert W.: *See*—
Box, Merrell L., and Cason.

Cavanaugh, John F., Washington, D. C. Magnet-controlled sit-up pup. 2,659,998, Nov. 24.

Celanese Corporation of America, assignee: *See*—
Jones, Wilford D., and McFarlane.
Robeson, Max O., Springer, and Christi.

Cement Gun Company, Inc., assignee: *See*—
Mair, Jesse K., and McNally.

Cerf, Robert C., Jr., assignor to Hollymade Hardware Manufacturing Company, Los Angeles, Calif. Doorknob and tubular spindle assembly. 2,660,466, Nov. 24.

Chain Belt Company, assignee: *See*—
Cheesman, William D.

Chall, Harold J., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Constant factor mechanism. 2,660,377, Nov. 24.

Chapman, Edward C., Lookout Mountain, Tenn., assignor to Combustion Engineering, Inc., New York, N. Y. Steam generating tubular water wall. 2,660,155, Nov. 24.

Charpiat, Edward B., Denver, Colo. Carbonated beverage dispenser. 2,660,343, Nov. 24.

Cheesman, William D., Cudahy, assignor to Chain Belt Company, Milwaukee, Wis. Flat top conveyer chain. 2,660,292, Nov. 24.

Chemical Construction Corporation, assignee: *See*—
McCarthy, Lawrence J.

Chemstrand Corporation, The, assignee: *See*—
Ham, George E.

Cherry-Burrell Corporation, assignee: *See*—
McCabe, John B., and Luedicke.
Chicago Eye Shield Company, assignee: *See*—
Malcom, Robert, Jr.
Chicago Telephone Supply Corporation, assignee: *See*—
Bush, Wilkie L., and Daily.
Daily, Arthur M., and Arisman.
Vaksvik, Adrian J.
Christensen, Sherman L.: *See*—
Broussard, Robert F., Miller, Sollenberger, and Christensen.
Christi, Corpus: *See*—
Robeson, Max O., Springer, and Christi.
Chudnow, Morris H., New York, N. Y. Drain assembly. 2,659,900, Nov. 24.
Cianchi, Alfredo L.: *See*—
Fraser, Reginald P., and Cianchi.
Cilag Limited, assignee: *See*—
Suter, Hans, Stocker, and Zütter.
City Tank Corporation, assignee: *See*—
Calamore, John P.
Clair Manufacturing Company, Inc., assignee: *See*—
Burt, William C.
Clark Equipment Company, assignee: *See*—
Backofen, E. Ryan, Dunham, and Skellenger.
Clayton, Alfred B., and T. O. Hale, Indianapolis, Ind., assignors to United States Rubber Company, New York, N. Y. Machine for splicing rubber articles. 2,660,216, Nov. 24.
Clemson Bros., Inc., assignee: *See*—
Clemson, Richard D.
Clemson, Richard D., assignor to Clemson Bros., Inc., Middletown, N. Y. Reel mower. 2,660,018, Nov. 24.
Clokey, John W., Pittsburgh, and E. M. Laughner Jeannette, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Commutator connection for dynamoelectric machines. 2,660,682, Nov. 24.
Cloud, Raymond T., assignor to North American Geophysical Co., Houston, Tex. Method of and apparatus for pendulum compensating. 2,659,985, Nov. 24.
Cockshutt Farm Equipment Limited, assignee: *See*—
Horne, Donald S., and MacDonald.
Coffey, Henry F., and P. H. Lanham, assignors to Eli Lilly and Company, Indianapolis, Ind. Filling device. 2,660,336, Nov. 24.
Coleman, John H., West Palm Beach, Fla., assignor to Radio Corporation of America. Mercury vapor rectifier tube employing magnetic field. 2,660,687, Nov. 24.
Coleman, Malcolm A., Washington, D. C. Nasal filter. 2,660,166, Nov. 24.
Colgate-Palmolive-Peet Company, assignee: *See*—
Gebbart, Arthur I., and Mitchell.
Collins, John E., Akron, Ohio. Packing member. 2,660,459, Nov. 24.
Collins, Lawrence B., Orange, and C. A. Langstaff, Compton, Calif. Shaft or rod packing. 2,660,458, Nov. 24.
Columbia Mills, Inc., The, assignee: *See*—
Burns, Fred J.
Combustion Engineering, Inc., assignee: *See*—
Chapman, Edward C.
Patterson, Ward S.
Commerce, United States of America as represented by the Secretary of, assignee: *See*—
De Lollis, Nicholas J.
Compagnie des Machines Bull (Societa Anonyme), assignee: *See*—
Leclerc, Bruno M. J.
Comstock, Daniel F.: *See*—
Whitney, Lyman F., Whitney, and Comstock.
Comstock & Wescott, Inc., assignee: *See*—
Whitney, Lyman F., Whitney, and Comstock
Condenser Service & Engineering Co., Inc., assignee: *See*—
Weber, Nicholas.
Cone, Joseph H., assignor to Casco Products Corporation, Bridgeport, Conn. Steam and dry flatiron. 2,659,989, Nov. 24.
Connecticut Footwear, Inc., assignee: *See*—
Spack, Maurice.
Connolly, John J.: *See*—
Finizie, Tomun, and Connolly
Container Corporation of America, assignee: *See*—
D'Esposito, Julian C.
Continental Can Company, Inc., assignee: *See*—
Eggerss, Hans A.
Henchert, John.
Continental Foundry and Machine Company, assignee: *See*—
Veenschoten, Vincent V
Cook, Ellsworth D.: *See*—
Summerhayes, Harry R., Jr., and Cook.
Cook, Gordon H., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objective of the telephoto type. 2,660,095, Nov 24.
Cook, Herbert, Edmonton, Alberta, Canada. Deep well fishing tool. 2,660,468, Nov. 24.
Cookson, Leonard T., assignor to The UpJohn Company, Kalamazoo, Mich. Indexing device for bottle closing machines. 2,660,354, Nov. 24.
Coolidge, John E.: *See*—
Macaulay, William R., and Coolidge.
Cooper, La Mar S., assignor to Amana Refrigeration, Inc., Cedar Rapids, Iowa. Refrigeration construction. 2,660,037, Nov. 24.
Corby, Joseph F., Philadelphia, Pa., assignor to Baldwin-Lima-Hamilton Corporation. Swivel joint. 2,660,461 Nov. 24.
Cordell, George R., Terre Haute, Ind., assignor to A. C. Nielsen Company, Chicago, Ill. System and apparatus for determining the listening habits of wave signal receiver users. 2,660,507, Nov. 24.
Corey, William S., Tujunga, Calif. Utility service clamp. 2,660,200, Nov. 24.
Corn Products Refining Company, assignee: *See*—
Kerr, Ralph W., and Faucette.
Coumerilh, Berton J., St. Louis, Mo. Combined rear trailer bumper and step. 2,660,454, Nov. 24.
Craftmaster Manufacturing Co., Inc., assignee: *See*—
Sears, Melville.
Crane Co., assignee: *See*
Hansen, George E
Crisp, Alvin H., Moscow, Idaho. Vibratory razor. 2,659,968, Nov. 24.
Crook Paper Box Company, assignee: *See*
Trickett, Lawrence G., Jr., and Deem.
Crowther, William H., Seattle, Wash. Building panel and construction. 2,659,938, Nov. 24.
Culp, Lyle M., Colman, S. Dak. Combination metering and view finding camera with swivel handle grip. 2,660,103, Nov. 24.
Cunder, Joseph, East Orange, and F. J. Licata, West Caldwell, assignors to Nopco Chemical Company, Harrison, N. J. Water-dispersible metal soap compositions. 2,660,567, Nov 24.
Cunder, Joseph, East Orange, and F. J. Licata, West Caldwell, assignors to Nopco Chemical Company, Harrison, N. J. Water-dispersible metal soap compositions. 2,660,568, Nov. 24.
Currivan, John J., Stamford, assignor to Electrolux Corporation, Old Greenwich, Conn. Apparatus for staking leads to commutators. 2,659,959, Nov. 24.
Curtis, William H., North Hollywood, Calif., L. L. Aspelin, Cleveland Heights, Ohio, and J. C. Carter, Pasadena, Calif., said Curtis and said Aspelin assignors to Thompson Products, Inc., Cleveland, Ohio, said Carter assignor to The J. C. Carter Company, Pasadena, Calif. Multistage centrifugal pump. 2,660,121, Nov. 24.
Cutler-Hammer, Inc., assignee: *See*
Elliot, William H.
Field, John A.
Cutter Laboratories, assignee: *See*
Hink, John H., Jr.
Cuttino, William H., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Housed capacitor assembly with interlocked grounding switch. 2,660,694, Nov. 24.
Daigle, Leo T., assignor to Cable-Link Corporation, Detroit, Mich. Trolley conveyer. 2,660,291, Nov. 24.
Daily, Arthur M.: *See*—
Bush, Wilkie L., and Daily.
Daily, Arthur M., and M. B. Arisman, assignors to Chicago Telephone Supply Corporation, Elkhart, Ind. Electric switch. 2,660,651, Nov. 24.
Daimler-Benz Aktiengesellschaft, assignee: *See*
Müller, Josef.
Nallinger, Friedrich K. H.
Daley, Charles W., Indianapolis, Ind., assignor to Radio Corporation of America. Support fixture for supporting pronged structures. 2,660,004, Nov. 24.
Daly, George F., and F. V. Adams, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Storage device. 2,660,370, Nov. 24.
Daly, George F., and F. V. Adams, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Calculating punch. 2,660,373, Nov. 24.
Darash, Nicholas P., assignor to The Warner & Swasey Company, Cleveland, Ohio. Jaw holder for gripper shuttle looms. 2,660,201, Nov. 24.
Davidson, John T., and J. H. Kroemer, assignors to The Standard Register Company, Dayton, Ohio. Strip feeding apparatus. 2,660,428, Nov. 24.
Davidson, Trevor O., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Supporting propulsion means for draglines and the like. 2,660,253, Nov. 24.
Davis, Charles G., assignor to Detroit Gasket & Manufacturing Company, Detroit, Mich. Insert assembly for leaf springs. 2,660,425, Nov. 24.
Davis, Walter M., Jamaica Plain, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Reducing the density of aerogels and similar materials. 2,660,564, Nov. 24.
Dean, Maurice R., and D. R. de Boisblanc, Bartlesville, Okla., assignors to Phillips Petroleum Company. Liquid level mensuring apparatus. 2,660,059, Nov. 24.
Dearborn Motors Corporation, assignee: *See*—
Hauswirth, Vernon O.
Richey, Clarence B.
De Back, William, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Butt drive mechanism for pear peeling machines. 2,660,209, Nov. 24.
De Boisblanc, Deslonde R.: *See*—
Dean, Maurice R., and de Boisblanc.
Deem, Clark O.: *See*—
Trickett, Lawrence G., Jr., and Deem.

Delmel, Richard C., Short Hills, N. J. Simulated radio signal apparatus. 2,660,720, Nov. 24.
De Kam, William G., assignor to Kent-Moore Organization, Inc., Detroit, Mich. Internal wrench with fastener retention means. 2,660,080, Nov. 24.
De Lollis, Nicholas J., Arlington, Va., assignor to the United States of America as represented by the Secretary of Commerce. Preparing nickel powder with large surface area. 2,660,523, Nov. 24.
Delplanque, Marcel L. A., Paris, France. Solvent-operated duplicating machine. 2,660,112, Nov. 24.
Demmon, Harvey, and M. E. Houk, Pittsburgh, Pa., assignors to United States Steel Corporation. Apparatus for removing slabs from heating furnaces. 2,660,321, Nov. 24.
Denker, Charles T., and J. R. Moore, Chicago, Ill. Oil burner. 2,660,230, Nov. 24.
Derry, Bert E.: *See*—
Cade, William M., and Derry.
D'Esposito, Julian C., assignor to Container Corporation of America, Chicago, Ill. Bicycle wheel brace. 2,660,297, Nov. 24.
Detrick, M. H., Company, assignee: *See*
Hosbein, Louis H., and Ellman.
Detroit Gasket & Manufacturing Company, assignee: *See*—
Davis, Charles G.
Dettmer, Edward V., Bay City, assignor to The Dow Chemical Company, Midland, Mich. Apparatus for stretching film. 2,659,931, Nov. 24.
Deubel, Justin A., assignor to Perfex Corporation, Milwaukee, Wis. Flame detector. 2,660,645, Nov. 24.
Development Research, Inc., assignee: *See*—
Pyenson, Harry.
Devine, Lawrence V: *See*—
Devine, Verbol J. and L. V
Devine, Verbol J. and L. V., Kansas City, Mo. Core drilling apparatus. 2,660,402, Nov 24
Diaz, Floyd C.: *See*—
Abbett, William A., Jr., and Diaz.
Dickinson, Fairleigh S., Jr., Rutherford, N. J. Vial 2,660,171, Nov 24.
Dickinson, John T., Basking Ridge, assignor to The M. W. Kellogg Company, Jersey City, N. J. Fractionation of fatty materials. 2,660,590, Nov 24.
Dickinson, Norman L., Basking Ridge, assignor to The M. W. Kellogg Company, Jersey City, N. J. Separation of fatty acids from hydrocarbon solutions thereof. 2,660,601, Nov. 24.
Diebold, George L., assignor to Venus Foundation Garments, Inc., Chicago, Ill. Foundation garment. 2,659,889, Nov. 24.
Dilts, Carl E., assignor of one-half to Joseph H Hoern, Saginaw, Mich. Turning and boring machine. 2,659,961, Nov. 24.
Ditto, Incorporated, assignee: *See*
Gullixson, Harold R, and Burns
Levin, Carl A.
Doba, Stephen, Jr., Parsippany, and J. W. Rieke, Basking Ridge, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal generating device. 2,660,676, Nov 24.
Doerselu, Paul, Fairlawn, N. J Toolholder. 2,659,962, Nov. 24.
Dolar, Edward, Berwyn, Ill. Hinged closure. 2,660,329, Nov. 24
Domeshek, Sol, Great Neck, N. Y. Multiplex picture projection apparatus. 2,660,087, Nov. 24.
Dominion Engineering Works Limited, assignee: *See*—
Lewis, Alfred H.
Donathan, Francis E., assignor to Superior Coach Corporation, Lima, Ohio. Push-out window structure. 2,660,274, Nov. 24.
Donnelley, R. R., & Sons Company, assignee: *See*—
Kramer, Lawrence I.
Dorland, Norman E., Kirkland, Wash. Apparatus for loading and unloading cargo vessels. 2,660,319, Nov 24.
Dossie, Thomas J., New York, N. Y. Safety chuck key with ejector means. 2,660,081, Nov. 24.
Douglas, Alvin P., Cleveland, and L. J. Walters, Shaker Heights, assignors to The Murray Ohio Manufacturing Company, Cleveland, Ohio. Steering gear mounting for juvenile vehicles. 2,660,448, Nov. 24.
Douglas, Alvin P., Cleveland, and L. J. Walters, Shaker Heights, assignors to The Murray Ohio Manufacturing Company, Cleveland, Ohio. Guided suspension means for bicycle steering wheels. 2,660,455, Nov. 24.
Doussain, Robert, Villeurbane, R. Bousson, and L. Perrie, Lyon, assignors to the Office National d'Etudes et de Recherches Aeronautiques, Paris, France. Variable pitch screw propeller articulated blade mounting. 2,660 252, Nov. 24.
Dow Chemical Company, The, assignee: *See*—
Dettmer, Edward V.
Dowling, Arthur P., assignor to Rock Island Millwork Company, Rock Island, Ill. Device for testing hot flow 2,660,051, Nov. 24.
Dowty Equipment Limited, assignee: *See*—
Carey, Frederick H.
Doyle, James F., Forest Hills, assignor to Arkell Safety Bag Company, New York, N. Y. Making bags. 2,660,100, Nov. 24.
Dreese, George A., New Lexington, Ohio. Telescopic multiple-socket wrench. 2,660,082, Nov. 24.
Dresser Industries, Inc., assignee: *See*—
Risley, Roger E., and Hoke.
Drum Corporation, The, assignee: *See*—
Drum, Vern R.
Drum, Vern R., Marine City, assignor to The Drum Corporation, Richmond, Mich. Paint tray. 2,659,917, Nov. 24.
Duckett, Edward J., and G. A. Klotzbaugh, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Secrecy transmission system. 2,660,666, Nov. 24.
Duerkoppwerke Aktiengesellschaft, assignee: *See*—
Nicolay, Karl.
Duncan, Owen G., Racine, Wis. Nonspillable vent plug for storage batteries. 2,660,611, Nov. 24.
Dunham, Elmer J.: *See*—
Backofen, E. Ryan, Dunham, and Skellenger.
Dunn, Celia, San Francisco, Calif. Typewriter guide. 2,659,978, Nov. 24.
Dunn, Charles W., assignor of forty per cent to J. W. Williamson, Lovington, N. Mex. Can tapper and liquid dispenser unit. 2,660,338, Nov. 24.
Dunn, Joseph W., Los Angeles, Calif. Adjustable marking rule. 2,659,980, Nov. 24.
Dunning, Robert M., assignor to Waldorf Paper Products Company, St. Paul, Minn. Apparatus for folding wrappers. 2,660,099, Nov. 24.
Dunning, Robert M., assignor to Waldorf Paper Products Company, St. Paul, Minn. Roll support. 2,660,296, Nov. 24.
Dupler, Raymond R., Toledo, Ohio. Mounting device for illuminated globes. 2,660,661, Nov. 24.
Durant, Lyndon A., assignor to General Patent Corporation, Chicago, Ill. Pocketed ball game apparatus. 2,660,434, Nov. 24.
Durant, Lyndon A., assignor to General Patent Corporation, Chicago, Ill. Ball delivery device for ball game apparatus. 2,660,435, Nov. 24.
Easy Washing Machine Corporation, assignee: *See*—
Heagerty, Donald D.
Landwier, William G.
Rogers, John P
Simpson, Harold N.
Williams, Earl C.
Eaton Laboratories, Inc., assignee: *See*—
Gever, Gabriel, and O'Kaefe.
Eaton Manufacturing Company, assignee: *See*—
Winther, Martin P., A. Winther, and Gill.
Eck, Floyd R., Des Plaines, Ill., assignor to Motor Products Corporation, Detroit, Mich. Refrigerator cabinet structure. 2,660,505, Nov. 24.
Edberg, Arthur R.: *See*—
Schmidt, Frederick W., Moore, and Edberg.
Edhardt, Gösta E., Malmo, Sweden. Folding wheelbarrow. 2,660,446, Nov. 24.
Edison, Thomas A., Incorporated, assignee: *See*—
Fritzinger, George H.
Kelly, Frederick G.
Somers, Richard M
Edmund, Joseph L.: *See*—
Russell, John, Edmund, and Felker.
Edwards, Miles L., Longview, Wash. Vapor separating pump. 2,660,120, Nov. 24.
Eggerss, Hans A., assignor to Continental Can Company, Inc., New York, N. Y. Combined wire bail and handgrip for containers 2,659,928, Nov. 24.
Egly, William D., South Bend, and C. W. Harris, Elkhart, Ind. Propulsion means for garden hose. 2,660,471, Nov. 24.
Ehlinger, Arnold H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Compressor sealing arrangement. 2,660,367, Nov. 24.
Eisaman, Leo C.: *See*—
Breeden, Francis C., and Eisaman.
Ekler, Kurt: *See*—
Schloen, John H., and Ekler.
Electro-Chemical Engineering & Mfg. Co., assignee: *See*—
Lantz, Willard J., and Walters.
Electrolux Corporation, assignee: *See*—
Currivan, John J.
Elliot, William H., Whitefish Bay, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Peaked voltage circuit. 2,660,670, Nov. 24.
Elliott, Irwin, Croton-on-Hudson, assignor of one-half to C. G. Papalexis and G. C. Papalexis, Bronx, N. Y. Machine for producing extruded units. 2,660,131, Nov. 24.
Ellis, Calvin L., Clay, N. Y., and R. W. Elsner, Phoenix, Ariz., assignors to General Electric Company. Signal generation apparatus. 2,660,615, Nov. 24.
Ellman, Louis: *See*—
Hosbein, Louis H., and Ellman.
Elsner, Ralph W.: *See*—
Ellis, Calvin L., and Elsner.
Elsworth, John V., Watertown, N. Y., assignor to Th New York Air Brake Company. Pressure compensated circuit failure protection device. 2,660,481, Nov. 24.
Elsworth, John V., Watertown, N. Y., assignor to The New York Air Brake Company. Pressure compensated circuit failure protection device. 2,660,482, Nov. 24.
Elwert, Otto: *See*—
Kopf, Johann, Schnürle, and Elwert.

Emblem, Harold G., St. Helens, England, C. Shaw, Johannesburg, Transvaal, Union of South Africa, and W. E. Langrish-Smith, Burwash Common, England, said Emblem assignor to said Shaw and said Langrish-Smith. Liquid composition comprising a lower alkoxy silane. 2,660,538, Nov. 24.

Emrick, Melvin H., Jamaica, N. Y. Forward and reverse belt drive for tapping attachments. 2,660,068, Nov. 24.

Endicott, Charles O., and W. W. Houser, Sr., Huntington, Oreg. Automatic extinguishing and disposing ash tray for automobiles. 2,660,180, Nov. 24.

Engineering Research Associates, Inc., assignee: *See*— Field, William J., and Perkins.

Englemann, Max: *See*— Leitz, Ernst, Jr., Englemann, and Bröhl.

Erchak, Michel, Jr., Morristownship, Morris County, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Catalytic alkylbenzene synthesis. 2,660,610, Nov. 24.

Erteszek, Olga, Los Angeles, Calif. Disposable insert panty garment. 2,660,173, Nov. 24.

Ethyl Corporation, assignee: *See*— Calingaert, George. Padgitt, Frank L.

Euclid Road Machinery Co., The, assignee: *See*— Schindler, Harold C.

Eureka Williams Corporation, assignee: *See*— Osborn, Ralph C.

Falcon Fasteners, Inc., assignee: *See*— Newman, Leopold.

Farbenfabriken Bayer, assignee: *See*— Schleifenbaum, Werner.

Farbwerke Hoechst A. G. vormals Meister Lucius und Bruning, assignee: *See*— Pontius, Oswald.

Farley, Louis J., Wapato, Wash. Pollinating cartridge. 2,660,002, Nov. 24.

Farley, Louis J., Wapato, Wash. Pollination. 2,660,003, Nov. 24.

Farnsworth, William H., Manistee, Mich., assignor to Morton Salt Company, Chicago, Ill. Vapor recompression system. 2,660,236, Nov. 24.

Farrand Optical Co., Inc., assignee: *See*— Hasbrouck, Harold J., Jr.

Faucette, William A.: *See*— Kerr, Ralph W., and Faucette.

Faure, Bernard, Neuilly-sur-Seine, France. Molding machine. 2,659,946, Nov. 24.

Feasley, Charles F., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Resinification of aromatic hydrocarbons. 2,660,572, Nov. 24.

Fechheimer, Paul R., assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio. Apparatus and method for accurately filling containers. 2,660,350, Nov. 24.

Fechheimer, Paul R., assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio. Pressure-and-vacuum filling machine. 2,660,357, Nov. 24.

Fechheimer, Paul R., assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio. Filling head for filling machines. 2,660,358, Nov. 24.

Federal Telephone and Radio Corporation, assignee: *See*— Black, Donald W. Hampshire, Robert A., Iden, and Hancock.

Feeney, Thomas A., Los Angeles, and W. B. Pierce Burbank, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Elevon stick control. 2,660,383, Nov. 24.

Felker, Samuel A.: *See*— Russell, John, Edmund, and Felker.

Ferguson, Kenneth C., assignor to Anderson Box Company, Indianapolis, Ind. Corner lock for corrugated fiberboard boxes. 2,660,364, Nov. 24.

Fibus, Murray M., assignee: *See*— Burke, James P.

Field, Frank: *See*— Wiesner, Wayne, and Field.

Field, Jacob M., Brooklyn, N. Y. Form for textile material or the like. 2,660,298, Nov. 24.

Field, John A., Wilstead, England, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Device for measuring alternating current impedances. 2,660,705, Nov. 24.

Field, William J., Minneapolis, and R. L. Perkins, assignors to Engineering Research Associates, Inc., St. Paul, Minn. Magnetic telegraphophone transducer. 2,660,622, Nov. 24.

Finizie, Tomum, Bridgeport, Conn., and J. J. Connolly, Pelham Manor, N. Y., said Finizie assignor to Bayus Electric, Incorporated, Bridgeport, Conn. Repeater printer for strip stock. 2,660,114, Nov. 24.

Fink, Melvin M.: *See*— Foreman, Robert W., and Fink.

Finney, Leatha A., Bethel, Kans. Receptacle. 2,660,347, Nov. 24.

Finnie & Norbom, assignee: *See*— Norbom, Ragnar A.

Firth, Albert: *See*— Ashworth, Joseph, and Firth.

Fisher, Frank G., assignor to Honan-Crane Corporation, Lebanon, Ind. Magnetic separator. 2,660,308, Nov. 24.

Fitzgerald, Antonia N., Denver, and B. C. Garrabrant, Edgewater, Colo. Hospital bed ladder. 2,659,902, Nov. 24.

Fitzsimmons, Worth M.: *See*— Allen, Charles F., Fitzsimmons, and Booth.

Flick, Francis S., Chicago, Ill., assignor to Miller Motor Company. Piston and piston ring assembly. 2,660,493, Nov. 24.

Flour City Ornamental Iron Co., assignee: *See*— Swenson, Erich S.

Fluor Corporation, Ltd., The, assignee: *See*— Baird, Raymond C.

Fogg, Robert E., assignor to McCall Corporation, Dayton, Ohio. Adhesive extruder for bookbinding machines. 2,660,148, Nov. 24.

Food Machinery and Chemical Corporation, assignee: *See*— Boyce, John, and Hayes. De Back, William.

Foote, Alton G.: *See*— Karash, Walter J., and Foote.

Ford Motor Company, assignee: *See*— MacPherson, Earle S.

Foreman, Robert W., and M. M. Fink, assignors to The Standard Oil Company, Cleveland, Ohio. Apparatus for coordinating operating wave length and slit size in spectrophotometers. 2,660,086, Nov. 24.

Forsberg, Axel A., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Vacuum cleaner nozzle with removable brush attachment. 2,659,924, Nov. 24.

Foster, Charles B., Mankayan, Mountain, Republic of Philippines. Extracting lead from its sulfides. 2,660,525, Nov. 24.

Fox, Martin, Chicago, Ill., assignor to The Seng Company. Load bearing pivoted member for furniture mechanism. 2,660,462, Nov. 24.

Foxboro Company, The, assignee: *See*— Bowditch, Hoel L.

Fraser, Reginald P., Surrey, and A. L. Cianchi, Hampstead, London, England. Production of vitreous glazes or enamels for coating metals. 2,660,531, Nov. 24.

Freeberg, Benjamin F.: *See*— Smith, William M., Freeberg, and Tharp.

Freeman, Robert L.: *See*— Scherbatskoy, Serge A., and Freeman.

Frese, Clarence A., assignor to The Hardie Manufacturing Company, Hudson, Mich. Control for spray equipment. 2,660,125, Nov. 24.

Friden Calculating Machine Co., Inc., assignee: *See*— Chall, Harold J. Hopkins, George W., and Rolph.

Friedel, George D., Seaford, Del. Feeder. 2,660,289, Nov. 24.

Friedheim, Ernst A. H., New York, N. Y. Therapeutic gold-dimercapto reaction product. 2,660,349, Nov. 24.

Friedl, Anton J., and W. E. Shipley Chicago, Ill., assignors to United States Steel Corporation. Adjustable rack. 2,660,381, Nov. 24.

Fries, Bernard A.: *See*— Sigworth, Harrison W., and Fries.

Frisch, Madeline V., Larchmont, N. Y. Convertible bench chair. 2,660,224, Nov. 24.

Fritzinger, George H., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Thermostatic switch. 2,660,646, Nov. 24.

Froelich, Herman C., Cleveland Heights, Ohio, assignor to General Electric Company. Electroluminescent zinc sulfide phosphor. 2,660,566, Nov. 24.

Frowe, Eugene W., assignor to Robert H. Ray Co., Houston, Tex. Gravimeter apparatus. 2,660,062, Nov. 24.

G. K. N. Group Services Limited, assignee: *See*— Watt, Alexander B.

Gage, Lonnie L., and C. L. Nelson, Snyder, Tex. Means for removing foreign matter from drill holes. 2,660,250, Nov. 24.

Gampp, George E., Kenmore, N. Y., assignor to American Machine & Foundry Company. Band applying mechanism. 2,660,353, Nov. 24.

Garbuny, Max, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Self-tuning resonant cavity. 2,660,711, Nov. 24.

Gardiner, Cecil M.: *See*— Robinson, Ernest L., and Gardiner.

Garrabrant, Burnard C.: *See*— Fitzgerald, Antonia N., and Garrabrant.

Garrison, Edgar W., Jr. *See*— Murray, Royce L., McCure and Garrison.

Gray, Robert, Baltimore, Md. Repeating alarm clock. 2,660,024, Nov. 24.

Gates, William O., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Harmonic analyzer and synthesizer. 2,660,700, Nov. 24.

Gebhart, Arthur L., Union, and J. E. Mitchell, East Rutherford, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Neutralization of sulphonated organic esters. 2,660,588, Nov. 24.

Geigy, J. R., A. G., assignee: *See*— Thommen, Willy.

Geldhof, Peter E., St. Joseph, Mich., assignor to Whirlpool Corporation. Automatic laundering machine and pump drive therefor. 2,660,043, Nov. 24.

Gelzheiser, Francis L., Pittsburgh, and E. J. Walker, Beaver, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,660,638, Nov. 24.

Gendron, Edward A., Jr.: *See*— Snyder, Howard J., and Gendron.

Gendron Freres, S. A., assignee: *See*— Gérard, Paul, and Séranne.

General Aniline & Film Corporation, assignee: *See*— Herrick, Clifford E., Jr. Williams, William W., and Wallace.

General Bronze Corporation, assignee: *See*— Hess, Jacob.

General Electric Company, assignee: *See*— Arone, Nicholas F. Ellis, Calvin L., and Elsner. Froelich, Herman C. Goetz, Ernest F. Harrison, Howard R. Hull, Thomas N., Jr. Karash, Walter J., and Foote. McCoy, Robert L. McKeag, Alfred H. Power, Ernest B., and Nelson. Robinson, Ernest L., and Gardiner. St. Louis, James A., and Pomfrett. Summerhayes, Harry R., Jr., and Cook. Thomas, William A. Warren, Robert E. Westendorp, Willem F. White, William C., and Lord.

General Electric Company Limited, The, assignee: *See*— Robertshaw, Robert G.

General Mills, Inc., assignee: *See*— Johnson, Kermit F., La Mere, and Winzeu.

General Motors Corporation, assignee: *See*— Geyer, Howard M. Hegeman, Franklyn P.

General Patent Corporation, assignee: *See*— Durant, Lyndon A.

General Tire and Rubber Company, The, assignee: *See*— Beck, Howard G.

Gérard, Paul, Paris, and Henri Séranne, assignors to Gendron Freres, S. A., Villeurbanne, France. Fluid bearing. 2,660,484, Nov. 24.

Gérard, Paul L. J., Paris, France. Fluid support. 2,660,485, Nov. 24.

Gersman, Harvey M., New York, N. Y., assignor of one-tenth to G. Jordan, Montclair, and one-tenth to A. G. Wigren, Glen Ridge, N. J. Extrusion. 2,660,302, Nov. 24.

Gerson, Fred, Elmhurst, assignor to Akron Hardware Mfg. Corp., Woodside, N. Y. Cabinet catch. 2,660,465, Nov. 24.

Geuder, Paeschke & Frey Co., assignee: *See*— Voigt, Herbert L., and Sieszkiewicz, Jr.

Geyer, Gabriel, Oxford, and C. J. O'Keefe, assignors to Eaton Laboratories, Inc., Norwich, N. Y. Making 2-hydroxyethylhydrazine. 2,660,607, Nov. 24.

Geyer, Howard M., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Dual drive actuator. 2,660,026, Nov. 24.

Geyer, Howard M., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Dual drive actuator. 2,660,027, Nov. 24.

Geyer, Howard M., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Dual drive actuator. 2,660,028, Nov. 24.

Geyer, Howard M., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Dual drive actuator. 2,660,029, Nov. 24.

Gilbert, A. C., Company, The, assignee: *See*— Schmidt, Frederick W., Moore, and Edberg. Smith, William R., and Monaco.

Gilbert, Philo G., Seattle, Wash., assignor to Gilbert Wheel Inc., Portland, Oreg. Wheel rim suspension. 2,660,213, Nov. 24.

Gilbert Wheel Inc., assignee: *See*— Gilbert, Philo G.

Gill, Andrew S., Jr.: *See*— Winther, Martin P. and A., and Gill.

Ginesi, Robert L.: *See*— Bogan, Charles W., and Ginesi.

Gisholt Machine Company, assignee: *See*— Johnson, Charles H.

Glass, Loyd, Canton, and B. G. Purtle, Elmwood, Ill. Tractor safety control means. 2,660,715, Nov. 24.

Glenn, Charles W., assignee: *See*— Wagner, Willard F.

Glover, Robert L., Poland, Ohio. Vibration device. 2,660,067, Nov. 24.

Godfrey, Harold R.: *See*— Braden, Frank L., and Godfrey.

Goetz, Ernest F., Schenectady, N. Y., assignor to General Electric Company. Rheostat operating mechanism. 2,660,650, Nov. 24.

Gohner, Edouard, assignee: *See*— Grüring, Alfons.

Gohorel, Fernand P., Antony, France, assignor to International Standard Electric Corporation, New York, N. Y. Automatic telephone system. 2,660,620, Nov. 24.

Gold, Jack, assignee: *See*— Taylor, Bernardo E.

Goldberg, Samuel, assignor to Lyon, Incorporated, Detroit, Mich. Abrading wheel. 2,660,009, Nov. 24.

Goldstein, Eli, assignee: *See*— Baca, Hugo H.

Goulds Pumps, Inc., assignee: *See*— Landberg, Erik G.

Grass, Albert M., Quincy, Mass. Oscillograph. 2,660,510, Nov. 24.

Gray, Arthur W., Rockland, Maine. Chimney cowl. 2,660,106, Nov. 24.

Gray Company, Inc., assignee: *See*— Hammer, Karl E.

Greatholder, Cyril G., assignor to Lotus Limited, Stafford, England. Binding turning machine as employed in the manufacture of footwear. 2,659,910, Nov. 24.

Greene, Glenn G., Jr., Warren, Pa. Cap and hanger for cleaning implements. 2,660,392, Nov. 24.

Greene, Sidney R., New Haven, Conn., assignor to Bendix Aviation Corporation, Teterboro, N. J. Variable resistance device. 2,660,652, Nov. 24.

Greig, James W., assignor to Woodall Industries, Inc., Detroit, Mich. Sliding door assembly. 2,659,939, Nov. 24.

Greist Manufacturing Company, The, assignee: *See*— Russell, Herbert H.

Gricar, Frank T., Jr., W. J. Sommers, and G. L. N. Meyer, Milwaukee, assignors to Geo. J. Meyer Manufacturing Company, Cudahy, Wis. Method and apparatus to supply a beverage to a filling machine and fill containers thereby. 2,660,360, Nov. 24.

Griffith, Alan A., assignor to Rolls-Royce Limited, Derby, England. Blade for turbines or compressors. 2,660,400, Nov. 24.

Griner, Leslie J., Detroit, Mich. Automatic safety readjustment mechanism for newspaper press fold rollers. 2,660,426, Nov. 24.

Grissol Bread Specialties Ltd., The, assignee: *See*— Bertrand, Leandre M.

Gross, Arthur R., St. Paul, Minn. Vending machine. 2,660,282, Nov. 24.

Grossman, Eugene F., Santa Monica, Calif. Indicating disk for golf club heads. 2,660,436, Nov. 24.

Grosz, Frank A.: *See*— Thrasher, Clyde E., and Grosz.

Grüring, Alfons, assignor to E. Gohner, Montreal, Quebec, Canada. Combination brush and comb. 2,660,183, Nov. 24.

Guarantee Specialty Manufacturing Company, assignee: *See*— Wright, Richard H., and Zay.

Guestinger, Oscar L., Roff, Okla. Hook and leader holder. 2,659,997, Nov. 24.

Gullixson, Harold R., Arlington, Va., and H. F. Bruns, Washington, D. C., assignors, by mesne assignments, to Ditto, Incorporated, Chicago, Ill. Rotary offset duplicator. 2,660,113, Nov. 24.

Haas, Walter, Middletown, and F. D. Bergstein, Hamilton, assignors to The Interstate Folding Box Company, Middletown, Ohio. Heat-sealing machine. 2,660,219, Nov. 24.

Hagelfeldt, Lydia A., Chicago, Ill., assignor of one-third to G. Blomquist, New York, N. Y. Foldable crib. 2,659,903, Nov. 24.

Hagstrom, Bernard, Ashland, Wis. Fish lure. 2,659,995, Nov. 24.

Hajek, Karel, assignor of one-half to Tesla, national corporation, Prague, Czechoslovakia. Teleprinting device. 2,660,617, Nov. 24.

Hale, Thomas O.: *See*— Clayton, Alfred B., and Hale.

Haller, John, Detroit, Mich. Feeding device for sheet material. 2,660,427, Nov. 24.

Hallett, Henry A.: *See*— Tinley, Ernest L., and Hallett.

Ham, George E., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Fiber-spinning compositions. 2,660,571, Nov. 24.

Hamilton, James C., assignee: *See*— Phillips, Lester E.

Hammer, Karl E., University City, Mo., assignor to Gray Company, Inc., Minneapolis, Minn. Retractable hose-supporting means for lubrication lifts. 2,659,937, Nov. 24.

Hammon, George L.: *See*— Welty, Charles H., and Hammon.

Hammon, Henry G., Stevensville, Mich., assignor, by mesne assignments, to C. L. Wilson, Columbus, Ohio. Making compressed sponges. 2,659,935, Nov. 24.

Hammond, John H., Jr., and E. S. Purington, Gloucester, Mass.; said Purington assignor to said Hammond, Jr. Television still picture receiver. 2,660,616, Nov. 24.

Hampshire, Robert A., West Caldwell, F. W. Iden, Pompton Plains, and P. L. Hancock, Rochelle Park, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Mechanical modulator. 2,660,709, Nov. 24.

Hancock, Peter L.: *See*— Hampshire, Robert A., Iden, and Hancock.

Handee Products, Inc., assignee: *See*— Zore, Edward F.

Hanney, Angus F., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Liquid level control. 2,660,193, Nov. 24.

Hansen, George E., assignor to Crane Co., Chicago, Ill. Self-cleaning shower head. 2,660,473, Nov. 24.

Hansen, Melvin O., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Article handling apparatus. 2,660,288, Nov. 24.

Hapman, Hannah J., assignee: *See*—
Hapman, Henry W.

Hapman, Henry W., assignor of forty per cent to H. J. Hapman, Kalamazoo, Mich. Sediment removal apparatus. 2,660,310, Nov. 24.

Hardaker, John T., Limited, assignee: *See*—
Ashworth, Joseph, and Firth.

Hardie Manufacturing Company, The, assignee: *See*—
Frese, Clarence A.

Harks, Walter M., assignor to Bowser, Inc., Fort Wayne, Ind. Hose extending and latching mechanism. 2,660,337, Nov. 24.

Harman, Slingsby D., Galesburg, Ill. Automatic phonograph. 2,660,437, Nov. 24.

Harmon, William C., Cleveland, and I. G. Orellana, Mayfield Heights, assignors to Republic Steel Corporation, Cleveland, Ohio. Seam depth indicator. 2,660,704, Nov. 24.

Harris, Columbus W.: *See*—
Egly, William D., and Harris.

Harris, Herbert, Jr.: *See*—
Campbell, David J., McCabe, and Harris.

Harrison, Charles W., Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic level control. 2,660,625, Nov. 24.

Harrison, Howard R., Philadelphia, Pa., assignor to General Electric Company. Side break disconnecting switch. 2,660,631, Nov. 24.

Hartney, James L., Chicago, Ill., assignor to United States Steel Corporation. Apparatus for introducing air to burners of reversing type furnaces. 2,660,419, Nov. 24.

Hasbrouck, Harold J., Jr., Teaneck, N. J., assignor to Farrand Optical Co., Inc. Sphygmomanometer. 2,660,164, Nov. 24.

Haseman, Joseph F., Florence, Ala., assignor to Tennessee Valley Authority. Selective flocculation of colloidal phosphate ore in the presence of clay. 2,660,303, Nov. 24.

Hastings, Robert J., Yagoona, New South Wales, Australia. Machine for the manufacture of crumpets and the like. 2,660,109, Nov. 24.

Haught, Warren E.: *See*—
Skeuse, Thomas J., Jennings, and Haught.

Hauswirth, Vernon O., Los Gatos, Calif., assignor to Dearborn Motors Corporation, Highland Park, Mich. Frame construction for implement draft devices. 2,660,445, Nov. 24.

Hawes, Albert H., Erdington, Birmingham, assignor to Kwikform Limited, Birmingham, England. Process and apparatus for coating surfaces with liquid compositions containing solid matter in suspension. 2,660,415, Nov. 24.

Hawkins, James R., Deerfield, Ohio, assignor to Armour and Company, Chicago, Ill. Glue-joining and press apparatus and method of joining the ends of abrasive strips. 2,660,220, Nov. 24.

Hawkinson, Earle W., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Retread mold construction. 2,659,933, Nov. 24.

Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Earle W.

Haworth, Lionel, and J. A. Petrie, Littleover, assignors to Rolls-Royce Limited, Derby, England. Locking arrangement for blading of axial-flow turbines and compressors. 2,660,413, Nov. 24.

Hayden, George D., assignor to Hayden Twist Drill Company, Detroit, Mich. Expansible drill. 2,660,075, Nov. 24.

Hayden Twist Drill Company, assignee: *See*—
Hayden, George D.

Hayes, Dudley W.: *See*—
Boyce, John, and Hayes.

Hayes Manufacturing Corporation, assignee: *See*—
Nelson, August L.

Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Metal-working apparatus. 2,660,128, Nov. 24.

Hayes Track Appliance Company, assignee: *See*—
Hayes, Stanley W.

Hazeltine Research, Inc., assignee: *See*—
James, Emrys G., and Lindell.

Heagerty, Donald D., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Pivoted self-aligning valve. 2,660,396, Nov. 24.

Hegeman, Franklyn P., Union, N. J., assignor to General Motors Corporation, Detroit, Mich. Grinding machine. 2,660,006, Nov. 24.

Hegler, James H., Jr., Cleveland, Ohio. Bait clamp. 2,659,996, Nov. 24.

Hellman, Nison N.: *See*—
Koepsell, Harold J., Tsuchiya, and Hellman.

Helot, Albert R. J., Champagne sur Seine, France, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Variable voltage drive. 2,660,699, Nov. 24.

Henchert, John, River Forest, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Container with rip strip tongue folded into lock seam. 2,660,332, Nov. 24.

Hennessey, Francis W.: *See*—
Ames, William L., and Hennessey.

Hennessy, James J., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa. Railway axle journal lubricator. 2,660,488, Nov. 24.

Hennessy, James J., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa. Railway axle journal lubricator. 2,660,489, Nov. 24.

Hennessy Lubricator Company, Inc., assignee: *See*—
Hennessy, James J.

Henrichs, Harry, Fresno, Calif. Antifriction mount for the distributor plate of motor vehicle distributors. 2,660,630, Nov. 24.

Herbold, Robert J., assignor to L. M. Hughes, Denver, Colo. Electrical method and apparatus for geophysical prospecting. 2,660,703, Nov. 24.

Herrick, Clifford E., Jr., Easton Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Diazotype reflex photoprinting. 2,660,526, Nov. 24.

Herrick, William W., and A. Burckhardt, assignors to Pitney-Bowes, Inc., Stamford, Conn. Postage printing device using direct and offset printing. 2,660,111, Nov. 24.

Hess, Jacob, Forest Hills, assignor to General Bronze Corporation, Garden City, N. Y. Spring assembly. 2,659,929, Nov. 24.

Hester, Harry W., Chenoa, Ill. Side delivery hayrake. 2,660,022, Nov. 24.

Hill, Alfred G., Martinsville, E. C. Metcalf, Bound Brook, and W. E. Sisco, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. Separation of aromatic amines. 2,660,581, Nov. 24.

Hill, Harold S., Kenogami, Quebec, assignor to Price Brothers & Company, Limited, Quebec, Canada. Processing wood pulp. 2,660,097, Nov. 24.

Hill, Jerald E., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for measuring power and standing waves in wave guides. 2,660,706, Nov. 24.

Hindman, Jeanne H., Cincinnati, Ohio. Combination undergarment. 2,659,893, Nov. 24.

Hink, John H., Jr., assignor to Cutter Laboratories, Berkeley, Calif. Drying human serum albumin and other heat sensitive biologically active proteins. 2,659,986, Nov. 24.

Hoern, Joseph H., assignee: *See*—
Dills, Carl E.

Hoffert, Frank D., Trenton, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Catalytic conversion of gaseous reactants. 2,660,508, Nov. 24.

Hoffman, John J., South Bend, Ind., assignor to United States Rubber Company, New York, N. Y. Expanded cellular plastic flotation body. 2,660,194, Nov. 24.

Hoffmann-La Roche Inc., assignee: *See*—
Kimel, Walter.

Hofmeister, Maurice H., Evanston, assignor to Bell & Gossett Company, Morton Grove, Ill. Heat exchanger. 2,660,410, Nov. 24.

Hoke, Howard L.: *See*—
Risley, Roger E., and Hoke.

Holland Company, assignee: *See*—
Wulff, Carl W.

Holland Mfg. Co., Inc., assignee: *See*—
McCarthy, Frank J.

Hollymade Hardware Manufacturing Company, assignee: *See*—
Cerf, Robert C., Jr.

Holtz, Frederick C., Jr., Wadsworth, Ill., assignor to Pfanstiehl Chemical Company. Phonograph needle. 2,660,438, Nov. 24.

Homan-Crane Corporation, assignee: *See*—
Fisher, Frank G.

Hood, Herman A., Houston, Tex. Electrical ground detector. 2,660,717, Nov. 24.

Hopkins, George W., and D. L. Rolph, San Leandro, Calif., assignors to Friden Calculating Machine Co., Inc. Keyset key responsive calculating machine. 2,660,374, Nov. 24.

Horix Manufacturing Company, assignee: *See*—
Bulcao, Wilbur H.

Horne, Donald S., and J. W. MacDonald, Brantford, Ontario, Canada, assignors to Cockshutt Farm Equipment Limited. Variable speed transmission. 2,660,069, Nov. 24.

Horne, Emerson, Palisades Park, assignor to Bendix Aviation Corporation, Teterboro, N. J. Winding arrangement for variable transformers. 2,660,681, Nov. 24.

Hornstein, Irwin: *See*—
Walter, George E., Hornstein, and Sheld.

Horowitz, Jack, Brooklyn, N. Y. Belt. 2,659,895, Nov. 24.

Hortman, Harvey E., Jr.: *See*—
Wagner, Robert J., and Hortman.

Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield wiper blade. 2,659,923, Nov. 24.

Hosbein, Louis H., Glencoe, Ill., and L. Ellman, Pittsburgh, Pa., assignors to M. H. Detrick Company, Chicago, Ill. Sectionally supported furnace wall. 2,660,050, Nov. 24.

Hotstream Heater Company, The, assignee: *See*—
Morrow, Clarence H.

Houdaille-Hershey Corporation, assignee: *See*—
O'Conner, Bernard E., and King.
Sandberg, Ray A.

Houk, Mansel E.: *See*—
Demmon, Harvey, and Houk.

Houser, Wallace W., Sr.: *See*—
Endicott, Charles O., and Houser.

Hryniszak, Waldemar: *See*—
Bowden, Andrew T., Muller, Kolb, Hryniszak, and Zadnick.

Hughes, George E., Columbus, assignor to Surface Combustion Corporation, Toledo, Ohio. Unit heater with draft hood. 2,660,159, Nov. 24.

Hughes, Lafayette M., assignee: *See*—
Herbold, Robert J.

Hughes, Robert W., Michigan City, Ind., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Expansion engine. 2,660,154, Nov. 24.

Hughes Tool Company, assignee: *See*—
Scott, Floyd L., Wisler, and Woods.

Hull, Thomas N., Jr., Schenectady, N. Y., assignor to General Electric Company. Turbine bucket. 2,660,401, Nov. 24.

Hunt, Arthur E., Albany, N. Y. Coupling system for interchangeably connecting the wiring systems of tractors and trailers. 2,660,679, Nov. 24.

Hunter, Edwin J., Riverside, Calif. Saddle valve. 2,660,192, Nov. 24.

Hupp, Arleigh G., assignor to The Midland Co., South Milwaukee, Wis. Tractor hitch. 2,660,271, Nov. 24.

Hutchins, Mary G., San Francisco, Calif. Method and apparatus for pressing pleats in fabric materials. 2,660,345, Nov. 24.

Hydrocarbon Research, Inc., assignee: *See*—
Hoffert, Frank D.

I-T-E Circuit Breaker Company, assignee: *See*—
Wood, Joseph D.

Iden, Floyd W.: *See*—
Hampshire, Robert A., Iden, and Hancock.

Illinois Clay Products Company, assignee: *See*—
West, Howard F., and Veale.

Illinois Railway Equipment Company, assignee: *See*—
Johnson, Malcolm S.
Sweger, Theodore J., and Johnson.

Imperial Paper and Color Corporation, assignee: *See*—
Van Wirt, Alfred E.

Import Products Company, Incorporated, assignee: *See*—
McCabe, Joseph B., and Marconi.

Ingersoll, Nelson, Jr., York, Pa. Artificial intraoral veneer and producing anatomically colored and contoured restorations utilizing same. 2,659,970, Nov. 24.

Inman, William H., Keokuk, Iowa. Tear strip guide. 2,660,331, Nov. 24.

International Business Machines Corporation, assignee: *See*—
Daly, George F., and Adams.

International Derrick & Equipment Company, assignee: *See*—
Selberg, John P.

International Standard Electric Corporation, assignee: *See*—
Aigrain, Pierre R.
Gohorel, Fernand P.
Lauckner, Hans E.
Parker, Louis W.
Touraton, Emile, and Zwobada.
Urtel, Rudolf.
Van Hauteville, Tankred.
Young, Norman H., Jr.

Interstate Folding Box Company, The, assignee: *See*—
Hans, Walter, and Bergstein.

Ionics, Incorporated, assignee: *See*—
Juda, Walter.

Iverson, Lauren E., St. Paul, Minn. Windshield warmer. 2,659,942, Nov. 24.

J. & J. Tool & Machine Co.: *See*—
Junkunc, Bela B.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Door latch operating mechanism. 2,660,046, Nov. 24.

Jacobi, Emil R., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Wheel. 2,660,476, Nov. 24.

Jagger, Hubert, Maywood, Ill. Shrimp peeling machine. 2,659,930, Nov. 24.

Jakobi, Friedrich, Essen, Germany. Caliper gauge. 2,659,982, Nov. 24.

Jakosky, John J., Los Angeles, Calif. Means for heating oil wells. 2,660,249, Nov. 24.

James, Duane A.: *See*—
James, Lewis A. and D. A.

James, Emrys G., and A. O. E. Lindell, Wembley, England, assignors to Hazeltine Research, Inc., Chicago, Ill. Crystal contact device. 2,660,696, Nov. 24.

James, Ernest T., Austin, Tex. Strainer cabinet. 2,660,313, Nov. 24.

James, Lewis A. and D. A., Independence, Kans. Dishwashing machine. 2,660,185, Nov. 24.

Janssen, Oscar, assignor to Oscar Janssen Stainless Steel Tanks, Inc., St. Louis, Mo. Tank construction. 2,660,048, Nov. 24.

Janssen, Oscar, Stainless Steel Tanks, Inc., assignee: *See*—
Janssen, Oscar.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.

Jeffrey, Morris H., Seattle, Wash. Air cleaner. 2,660,261, Nov. 24.

Jellison, Clifford D., Upland, Calif. Plug. 2,660,197, Nov. 24.

Jenkins, Edward M., Somerville, and T. L. Acken, Jr., New Brunswick, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Unit partition wall construction. 2,660,270, Nov. 24.

Jennings, Arthur C.: *See*—
Skeuse, Thomas J., Jennings, and Haught.

Johns-Manville Corporation, assignee: *See*—
Jenkins, Edward M., and Acken.
Pittenger, Howard R., Jr., and Verschoor.
Powell, Edward R.

Johnson, Charles H., assignor to Gisholt Machine Company, Madison, Wis. Semiautomatic turret lathe. 2,659,960, Nov. 24.

Johnson, Edward O., Princeton, N. J., assignor to Radio Corporation of America. Control electrode-anode structure for gas discharge devices. 2,660,685, Nov. 24.

Johnson, Henry, Montreal, Quebec, Canada. Fourdrinier wire having reinforced coated marginal portions. 2,659,958, Nov. 24.

Johnson, Kermit F., F. J. La Mere, and O. C. Winzen, Minneapolis, Minn., assignors to General Mills, Inc. Welding apparatus. 2,660,218, Nov. 24.

Johnson, Malcolm S.: *See*—
Sweger, Theodore J., and Johnson.

Johnson, Malcolm S., Flossmoor, assignor to Illinois Railway Equipment Company, Chicago, Ill. Lading tie anchoring means for application. 2,660,130, Nov. 24.

Johnson, Robert C., Jr., Lubbock, Tex. Implement carrier frame. 2,660,452, Nov. 24.

Jolly, C. C., Company, Inc., The, assignee: *See*—
Jolly, Carl C.

Jolly, Carl C., assignor to The C. C. Jolly Company, Inc., Owatonna, Minn. Poultry feeder. 2,660,149, Nov. 24.

Jones, Charles H.: *See*—
Ley, Gordon, and Jones.

Jones, Harry M., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway car axle journal bearing mounting. 2,660,490, Nov. 24.

Jones, Wilford D., and S. B. McFarlane, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y. Process for the production of polyurethanes. 2,660,574, Nov. 24.

Jones, Wilford D., and S. B. McFarlane, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y. Polymerization process for polyurethanes utilizing water, a water miscible solvent, and a water immiscible solvent. 2,660,575, Nov. 24.

Jordan, George, assignee: *See*—
Gersman, Harvey M.

Joy Manufacturing Company, assignee: *See*—
Hughes, Robert W.
Paget, Win W.
Woolf, James W.

Juda, Walter, assignor to Ionics, Incorporated, Cambridge, Mass. Purification of water by ion exchange. 2,660,558, Nov. 24.

Junkunc, Alexander, Jr., assignee: *See*—
Junkunc, Bela B.

Junkunc, Alexander, Sr., assignee: *See*—
Junkunc, Bela B.

Junkunc, Bela B., assignor to B. B. Junkunc, A. Junkunc, Sr., A. Junkunc, Jr., and J. G. Junkunc, a partnership doing business as J. & J. Tool & Machine Co., Chicago, Ill. Cutting machine. 2,660,241, Nov. 24.

Junkunc, Joseph G., assignee: *See*—
Junkunc, Bela B.

Kahl, Carl H. W., Phoenix, Ariz. Rectal spray depurator bulb with siphon. 2,660,170, Nov. 24.

Kalb, George L., assignor to Aeronca Manufacturing Corporation, Middletown, Ohio. Poultry feeder. 2,660,150, Nov. 24.

Kamborian, Albert, Newton, assignor to J. S. Kamborian, West Newton, Mass. Making Goodyear-welt shoes. 2,659,912, Nov. 24.

Kamborian, Jacob S., assignee: *See*—
Kamborian, Albert.

Kappeler, John A., assignee: *See*—
Lucas, Joseph J.

Karash, Walter J., Cleveland, and A. G. Foote, Wickliffe, Ohio, assignors to General Electric Company. Metal vaporizer and method for vapor coating. 2,660,540, Nov. 24.

Kaul, Fred, Buenos Aires, Argentina. Apparatus for hair dyeing. 2,660,182, Nov. 24.

Keerins, Grattan D.: *See*—
Stigum, Tom, and Keerins.

Keller, Max, Zurich, Switzerland. Pressure cooker. 2,660,330, Nov. 24.

Kellogg, M. W., Company, The, assignee: *See*—
Dickinson, John T.
Dickinson, Norman L.

Kelly, Frederick G., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Long scale electrical instrument. 2,660,707, Nov. 24.

Kelsey-Hayes Wheel Company, assignee: *See*—
Cade, William M., and Derry.
Jacobi, Emil R.

Kelso, John W., Clairton, Pa., assignor to United States Steel Corporation. Forming centering cavities in billet ends. 2,660,545, Nov. 24.

Kemper, Maxwell F., Los Angeles, Calif. Method and apparatus for placing fluent material. 2,660,034, Nov. 24.

Kennedy, Charles H., Jr., assignor to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Typewriter key touch controlling means. 2,660,285, Nov. 24.

Kent-Moore Organization, Inc., assignee: *See*— De Kam, William G.

Kerr, Ralph W., Riverside, Ill., and W. A. Faucette, Stoughton, Wis., assignors to Corn Products Refining Company, New York, N. Y. Derivatization of starch with lactones. 2,660,577, Nov. 24.

Kessler, Frank, Rochester, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Level-hunting selector. 2,660,619, Nov. 24.

Kewanee Manufacturing Company, assignee: *See*— Walterman, Fredrick H., and Malmrose.

Kiefer, Karl, Machine Company, The, assignee: *See*— Fechheimer, Paul R.

Kiefer, Karl, Machine Company, The, assignee: *See*— Rowekamp, Edward F.

Kiehl, Paul G., St. Louis, and W. H. Kolath, Jr., Webster Groves, Mo. Film mount. 2,659,992, Nov 24.

Kilgen, Eugene R., University City, Mo. Master or central station controller. 2,660,628, Nov. 24.

Kimel, Walter, Highland Park, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Branched chain octadecenone and preparation thereof. 2,660,608, Nov. 24.

King, Robert E.: *See*— O'Connor, Bernard E., and King.

King, William F., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Commutator with self-wedging retaining rings. 2,660,683, Nov. 24.

Klein, Harold, Los Angeles, Calif., and E. B. Laskin, Baltimore, Md. Compressor surge inhibitor. 2,660,366, Nov. 24.

Kirby, Wilfred, assignor to Vickers-Armstrongs Limited, London, England. Manually operated wire stitching machine. 2,659,885, Nov. 24.

Klein, Jacob, Fresno, Calif. Oil gauge wiper. 2,659,922, Nov. 24.

Klotzbaugh, George A.: *See*— Duckett, Edward J., and Klotzbaugh.

Klug, Simon, Caledonia, Minn. Grain lifting device. 2,660,020, Nov. 24.

Knight, Lorne F., assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada. Fluid clutch. 2,660,279, Nov. 24.

Knowlton, Richard L., Fort Worth, assignor to Texas A. & M. Research Foundation, College Station, Brazos County, Tex. Apparatus for removing solids from liquids in settling tanks and the like. 2,660,557, Nov. 24.

Knox, William T., Jr., Cranford, N. J., assignor to Standard Oil Development Company. Wax composition and process for producing wax. 2,660,553, Nov. 24.

Koepsell, Harold J., H. M. Tsuchiya, and N. N. Hellman, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture. Production of dextran of relatively low molecular weight. 2,660,551, Nov. 24.

Koerner, Lawrence F., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Crystal temperature control means. 2,660,680, Nov. 24.

Kolath, William H., Jr.: *See*— Kiehl, Paul G., and Kolath.

Kolb, Paul: *See*— Bowden, Andrew T., Muller, Kolb, Hryniszak, and Zadnick.

Kolbe, Joachim, Milwaukee, Wis. Inward banking vehicle with combined banking arm and pendulum axle construction. 2,660,254, Nov. 24.

Kolland, Emil, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany. Reciprocating carriage drive. 2,660,066, Nov. 24.

Koob, Nicholas M., Chicago, Ill. Dispenser for collapsible tubes. 2,660,339, Nov. 24.

Kopf, Johann, A. Schnürle, deceased, and O. Elwert, Stuttgart, Germany, said Kopf and said Elwert assignors to said Schnürle; G. Schnürle, sole heir of said A. Schnürle. Internal-combustion engine with scavenging air blower. 2,660,156, Nov. 24.

Kordish, Paul J., Mansfield, Ohio. Device for holding eyebrow or gray hair pencils. 2,660,181, Nov. 24.

Kramer, Lawrence L., Park Forest, Ill., assignor to R. R. Donnelley & Sons Company. Machine for forming bundles of signatures. 2,659,907, Nov. 24.

Krauss, Wolfgang W.: *See*— Whitehouse, Irving P., and Krauss.

Kroemer, John H.: *See*— Davidson, John T., and Kroemer.

Kurtz, Herman C., Medina, Ohio. Compensating hydraulic jaw. 2,660,440, Nov. 24.

Kwikform Limited, assignee: *See*— Hawes, Albert H.

Labouygues, Jean A., Messeix, France. Classifier for solid bodies carried in a fluid stream. 2,660,305, Nov. 24.

Lacey, Richard N., Hull, assignor to British Industrial Solvents Limited, London, England. Production of pyrrolinones. 2,660,583, Nov. 24.

Lake, Eugene T., Brodheadsville, Pa. Work support attachment for sewing machine tables. 2,660,406, Nov. 24.

La Mere, Frank J.: *See*— Johnson, Kermit F., La Mere, and Winzen.

Landberg, Erik G., assignor to Goulds Pumps, Inc., Seneca Falls, N. Y. Centrifugal pump. 2,660,122, Nov. 24.

Landon, Vernon D., Princeton, N. J., assignor to Radio Corporation of America. Band pass filter. 2,660,712, Nov. 24.

Landwier, William G., Fayetteville, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Clutch and brake for washing machines. 2,660,278, Nov. 24.

Landwier, William G., Fayetteville, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Centrifugal rinsing device. 2,660,311, Nov. 24.

Lane, John R., Pittsburg, Calif., assignor to United States Steel Corporation. Knife-adjusting means for rotary shears. 2,660,242, Nov. 24.

Langrish-Smith, William E.: *See*— Emblem, Harold G., Shaw, and Langrish-Smith.

Langstaff, Clinton A.: *See*— Collins, Lawrence B., and Langstaff.

Lanham, Philip H.: *See*— Coffey, Henry F., and Lanham.

Lantz, Willard J., Emmaus, and J. M. Walters, Allentown, assignors to Electro-Chemical Engineering & Mfg. Co., Emmaus, Pa. Synthetic resin and making the same from furacrolein, furfural, and formaldehyde. 2,660,573, Nov. 24.

Larsen, Harvey E., assignor to Steger Products Manufacturing Corporation, Steger, Ill. Buffing wheel. 2,660,010, Nov. 24.

Laschinger, John E., Bramley, Johannesburg, Union of South Africa. Heat exchanger for continuous treatment of fluent material. 2,660,408, Nov. 24.

Laskin, Eugene B.: *See*— Klein, Harold, and Laskin.

Lasky, Thomas S., Kingston, Pa. Oil filter. 2,660,314, Nov. 24.

Lasky, Thomas S., Kingston, Pa. Oil filter. 2,660,315, Nov. 24.

Lasky, Thomas S., Kingston, Pa. Filter unit. 2,660,316, Nov. 24.

La Soudure Electrique Languepin, assignee: *See*— André, Henri.

Lauckner, Hans E., Weissenburg, Bayern, Germany, assignor to International Standard Electric Corporation, New York, N. Y. Selenium rectifier with varnish intermediate layers. 2,660,697, Nov. 24.

Laughner, Ernest M.: *See*— Clokey, John W., and Laughner.

Laurie, Floyd S., Royal Oak, assignor to American Metal Products Company, Detroit, Mich. Spring construction. 2,660,227, Nov. 24.

Law, Don C., Bay City, assignor to Magline, Inc., Pinconning, Mich. Dockboard. 2,659,914, Nov. 24.

Lawson, William A., assignor to Building Products Limited, Montreal, Quebec, Canada. Producing masonry simulating panel. 2,660,247, Nov. 24.

Leclerc, Bruno M. J., Fontenay sous Bois, assignor to Compagnie des Machines Bull (Societe Anonyme), Paris, France. Device for comparing values represented by pulses. 2,660,372, Nov. 24.

Lee, Arthur L., Upper Arlington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Low height shortwall mining machine. 2,660,418, Nov. 24.

Lee, Leighton, II, Rocky Hill, Conn. Nozzle. 2,660,474, Nov. 24.

Lehane, Timothy J., North Riverside, assignor to Vapor Heating Corporation, Chicago, Ill. Control system for controlling the temperatures of individual enclosures. 2,660,407, Nov. 24.

Lehker, Harry J.: *See*— Worrell, Robert L., Lehker, and Vogelsang.

Leitz, Ernst, G. m. b. H., assignee: *See*— Leitz, Ernst, Jr., Englemann, and Bröhl.

Leitz, Ernst, Jr., M. Englemann, and A. Bröhl, assignors to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Prism system for binocular microscopes. 2,660,090, Nov. 24.

Lenth, John, Rochester, Minn. Corn picker. 2,660,467, Nov. 24.

Lever Brothers Company, assignee: *See*— Squire, Frederick J., and Stengel.

Levin, Carl A., Park Ridge, assignor to Ditto, Incorporated, Chicago, Ill. Shiftable sheet feeding device for duplicating machines. 2,660,431, Nov. 24.

Levtwyler, Charles L.: *See*— Sharp, Fred L., and Levtwyler.

Lewis, Alfred H., assignor to Dominion Engineering Works Limited, Montreal, Quebec, Canada. Immersion type thermocouple temperature measuring device. 2,660,061, Nov. 24.

Lewis, C. A., Inc., assignee: *See*— Lewis, Chester A.

Lewis, Chester A., assignor to C. A. Lewis, Inc., Cleveland, Ohio. Coke remover for tar and petroleum stills and the like. 2,659,916, Nov. 24.

Lewis, Harold S., Frankfort, Ind. Piston stabilizer. 2,660,492, Nov. 24.

Ley, Gordon, and C. H. Jones, Pittsburgh, Pa., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Radio scanning system. 2,660,722, Nov. 24.

Leyden, George B., Baton Rouge, La., assignor to Standard Oil Development Company. Sulfuric acid recovery. 2,660,316, Nov. 24.

Licata, Francis J.: *See*— Cunder, Joseph, and Licata.

Lilienfeld, Julius E., St. Thomas, V. I. Fabric, method of making same, and its uses. 2,659,956, Nov. 24.

Lilienfeld, Julius E., St. Thomas, V. I. Weight supporting fabric. 2,659,957, Nov. 24.

Lilly, Eli, and Company, assignee: *See*— Coffey, Henry F., and Lanham.

Lindell, Aubrey O. E.: *See*— James, Emrys G., and Lindell.

Lion, Henry, Los Angeles, Calif. Animator's stand. 2,660,389, Nov. 24.

Lippincott, Samuel B.: *See*— Banes, Fred W., and Lippincott.

Lomazzo, Edmund J., Norwalk, Conn. V belt cutting machine. 2,660,243, Nov. 24.

Lord, Harold W.: *See*— White, William C., and Lord.

Lorenz, Anton, assignee: *See*— Luckhardt, Johannes.

Lorig, Edwin T., Pittsburgh, Pa., assignor to United States Steel Corporation. Apparatus for automatically centering moving objects. 2,660,429, Nov. 24.

Lotus Limited, assignee: *See*— Greatholder, Cyril G.

Lucas, Joseph J., assignor of one-half to J. A. Kappeler, Dayton, Ohio. Electrical switch. 2,660,629, Nov. 24.

Luccous, John C.: *See*— Otis, Herbert C., and Luccous.

Luckhardt, Johannes, Berlin-Dahlem, Germany, assignor to A. Lorenz, Buffalo, N. Y. Article of repose for supporting the body of a person. 2,660,225, Nov. 24.

Lucy, Otto H., assignor, by mesne assignments, to H. R. Triplett, Whittier, Calif. Machine for making prefabricated steel structural members. 2,660,203, Nov. 24

Luebkert, Fred E., Brooklyn, assignor of one-half to M. E. Sparrow, New York, N. Y. Electric switch. 2,660,648, Nov. 24.

Luebkert, Fred E., Brooklyn, assignor of one-half to M. E. Sparrow, New York, N. Y. Electric switch. 2,660,649, Nov. 24.

Luedicke, Alexander H., Jr.: *See*— McCabe, John B., and Luedicke.

Lutyens, John L., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Marking machine. 2,660,116, Nov. 24

Lyon, George A., Detroit, Mich. Wheel structure. 2,660,478, Nov. 24.

Lyon, George A., Detroit, Mich. Wheel cover. 2,660,479, Nov. 24.

Lyon, George A., Detroit, Mich. Wheel cover. 2,660,480, Nov. 24.

Lyon, Incorporated, assignee: *See*— Goldberg, Samuel.

Macaulay, William R., and J. E. Coolidge, Waterbury, Conn., assignors to The American Brass Company. Apparatus for rolling sheet metal. 2,660,077, Nov. 24.

MacDonald, Bernard, New Glasgow, Nova Scotia. Protector valve. 2,660,189, Nov. 24.

MacDonald, James W.: *See*— Horne, Donald S., and MacDonald.

MacPherson, Earle S., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Wheel suspension for motor vehicles. 2,660,449, Nov 24

Magis, Auguste A. G., Paris, France. Change-speed gearbox. 2,660,070, Nov. 24.

Magline, Inc., assignee: *See*— Law, Don C.

Mair, Jesse K., and C. J. McNally, assignors to Cement Gun Company, Inc., Allentown, Pa. Compressible tube valve. 2,660,395, Nov 24.

Makishima, Kenji, Honolulu, Hawaii. Burglar alarm safety lock. 2,660,632, Nov. 24.

Malcom, Robert, Jr., assignor to Chicago Eye Shield Company, Chicago, Ill. Protective device. 2,659,888, Nov. 24.

Mallon, Adelaide H., New York, N. Y. Telescopic handle. 2,660,457, Nov. 24.

Malm, Henry, New York, N. Y. Device for supporting and actuating hypodermic syringes. 2,660,169, Nov. 24.

Malmrose, John P.: *See*— Walterman, Frederick H., and Malmrose.

Maloney, Milton F., Fairhaven, N. J. Device for alternatingly interrupting the brake fluid pressure in brake lines. 2,660,266, Nov. 24

Maney, George A., deceased, by M. D. Maney, executrix, assignor to M. D. Maney, Skokie, Ill. Prestressed concrete structural compression member. 2,660,049, Nov. 24.

Maney, Mabelle D., executrix, assignee: *See* Maney, George A.

Marbury, Ralph E., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Protective system for series capacitors. 2,660,693, Nov. 24.

Marconi, Paul G.: *See*— McCabe, Joseph B., and Marconi.

Marcus, Jerome, assignee: *See*— Burke, James P.

Margles, Samuel G., Brooklyn, assignor to Otis Elevator Company, New York, N. Y. Moving stairway handrail supporting device. 2,660,286, Nov. 24.

Marquaire, Charles, La Tronche, assignor to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine, Paris, France. Manufacture of permanent magnets. 2,660,522, Nov. 24.

Marsh, Allan O., Los Angeles, Calif. Sheet stock punch head housing. 2,660,245, Nov. 24.

Marshall, Edward W. and F. V., Weston, Mass. Shade-producing apparatus. 2,660,186, Nov. 24.

Marshall, Frances V.: *See*— Marshall, Edward W. and F. V.

Marshall, John G.: *See*— Stoddard, Alexander.

Marson, John E.: *See*— Mork, George W., Marson, and Paulsen.

Martin, Glenn L., Company, The, assignee: *See*— Walter, George E., Hornstein, and Sheld.

Maryland Laboratories, Incorporated, assignee: *See*— Prime, Nathaniel S.

Maschinenfabrik Augsburg-Nurnberg A. G., assignee: *See*— Kolland, Emil.

Mason-Neilan Regulator Company, assignee: *See*— Bennett, Andrew E.

Massey-Harris Co. Ltd., assignee: *See*— Knight, Lorne F.

Masson Seeley & Co. Limited, assignee: *See*— Maunder, Claude A.

Maunder, Claude A., assignor to Masson Seeley & Co. Limited, London, England. Work support. 2,660,117, Nov. 24.

Maw, Mark, Haney, British Columbia, Canada. Sewing device. 2,660,346, Nov. 24.

Mawbey, Lawrence, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Heel breasting machine. 2,659,909, Nov. 24.

Maxim Silencer Company, The, assignee: *See*— Bourne, Roland B., and Tyskewicz.

May, Edwin M., Scarsdale, N. Y., assignor to Bowser, Inc., Fort Wayne, Ind. Lubricant conditioning apparatus. 2,660,309, Nov. 24.

May, Milton F., Saginaw, Mich. Sizing machine. 2,660,076, Nov. 24.

McCabe, John B., and A. H. Luedicke, Jr., Milwaukee, Wis., assignors, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill. Bottle carrying pocket. 2,660,290, Nov. 24.

McCabe, Joseph B., and P. G. Marconi, assignors to Import Products Company, Incorporated, Ridgefield, Conn. Device for dispensing liquid preparations through a brush. 2,659,919, Nov. 24.

McCabe, Selden P., Jr.: *See*— Campbell, David J., McCabe, and Harris.

McCall Corporation, assignee: *See*— Fogg, Robert E.

McCallum, Frederick C., Williamsville, N. Y., assignor to American Optical Company, Southbridge, Mass. Haemacytometer and the like. 2,660,091, Nov. 24.

McCarthy, Frank J., Freeport, assignor to Holland Mfg. Co., Inc., New York, N. Y. Monofilament thread and making same. 2,660,546, Nov 24.

McCarthy, Lawrence J., Hawthorne, N. J., assignor to Chemical Construction Corporation, New York, N. Y. Fluid heater. 2,660,519, Nov. 24.

McCartney Engineering & Research Corporation, Inc., assignee: *See*— McCartney, Joseph A.

McCartney, Joseph A., assignor, by mesne assignments, to McCartney Engineering & Research Corporation, Inc., Baxter Springs, Kans. Automatic tank valve for flow lines. 2,660,188, Nov. 24.

McCaul, Edward W.: *See*— Boyko, John, and McCaul.

McCormick, Francis A.: *See*— Wilske, Julius E., McCormick, and Politsch.

McCoy, Robert L., Baltimore, Md., assignor to General Electric Company. Suspension clamp. 2,660,388, Nov. 24.

McCure, William H.: *See*— Murray, Royce L., McCure, and Garrison.

McDowell, Fred, Neptune, N. J. Berrypicking machine. 2,660,021, Nov. 24.

McFarland, David M., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Method and apparatus for ascertaining time of explosion. 2,660,716, Nov. 24.

McFarlane, Samuel B.: *See*— Jones, Wilford D., and McFarlane.

McGinley, James J., Williston Park, N. Y., assignor to American Machine and Foundry Company. Centering apparatus for bowling pin holders. 2,660,433, Nov. 24.

McGinnis, Walter, Alhambra, Calif. Crib shortening, cover-holding device, and baby anchor. 2,659,904, Nov. 24.

McKeag, Alfred H., North Wembley, England, assignor to General Electric Company. Manganese activated cadmium lithium silicate phosphor. 2,660,565, Nov. 24.

McKee, Harry B., Newport Beach, Calif. Ground anchor. 2,660,276, Nov. 24.

McLanahan, Allen: *See*— Brane, Maxwell D., and McLanahan.

McNally, Christopher J.: *See*— Mair, Jesse K., and McNally.

McNamee, Owen A., Worcester, Mass., assignor to United States Steel Corporation. Extruding apparatus. 2,659,932, Nov. 24.

Medcalf, Eugene C.: *See*— Hill, Alfred G., Medcalf, and Sisco.

Meddock, Alvin A., Van Nuys, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Automatic quick disconnect coupling. 2,660,456, Nov. 24.

Meier, Johann H., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Control for pneumatic cable-tool drills. 2,660,404, Nov. 24.

Melnick, Laben M., H. W. Safford, K. Sun, and A. Silverman, Pittsburgh, Pa. Neutron absorbing glass. 2,660,532, Nov. 24.

Mengel Company, The, assignee: *See*—
Soehner, Howard C.

Merkur, Martin, assignor of one-third to A. Neustadter, New York, N. Y. Plaster cast cutting machine. 2,659,969, Nov. 24.

Merrell Manufacturing Company, assignee: *See*—
Box, Merrell L., and Cason.

Merritt, Glenn W., assignor to The Nolan Company, Bowerston, Ohio. Conveyor apparatus. 2,660,293, Nov. 24.

Metafiltration Company Limited, The, assignee: *See*—
Pickard, Joseph A.

Meyer, Geo. J., Manufacturing Company, assignee: *See*—
Gricar, Frank T., Jr., Sommers, and Meyer.

Meyer, George L. N.: *See*—
Gricar, Frank T., Jr., Sommers, and Meyer.

Michaelson, Max E., assignee: *See*—
Taylor, Bernardo E.

Michelitsch, Walter, Ludwigshafen (Rhine), Oppau, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany. Crystallization of urea. 2,660,604, Nov. 24.

Middendorf, Henry B., assignor to Scaffold Equipment Company, Pittsburgh, Pa. Braking caster. 2,660,265, Nov. 24.

Midland Co., The, assignee: *See*—
Hupp, Arleigh G.

Miller, Arthur, Watertown, assignor to Sanborn Company, Cambridge, Mass. Electrical calibration system. 2,660,165, Nov. 24.

Miller, Henry J.: *See*—
Broussard, Robert F., Miller, Sollenberger, and Christensen.

Miller, John W., assignor to Motor Wheel Corporation, Lansing, Mich. Electrical fuel feed control. 2,660,196, Nov. 24.

Miller Meters, Inc., assignee: *See*—
Broussard, Robert F., Miller, Sollenberger, and Christensen.

Miller Motor Company, assignee: *See*—
Flick, Francis S.

Miller, Willis H., Irving, Tex. Boat trailer. 2,660,443, Nov. 24.

Milsco Manufacturing Company, assignee: *See*—
Wing, William A.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Schuck, Oscar H., and Alderson.

Mitchell, Joseph E.: *See*—
Gebhart, Arthur L., and Mitchell.

Molla, Charles P., New Hyde Park, N. Y. Combination table leg and table top retainer. 2,660,501, Nov. 24.

Monaco, Gabriel R.: *See*—
Smith, William R., and Monaco.

Monsanto Chemical Company, assignee: *See*—
Davis, Walter M.

Montgomery, Gustaf A., Buenos Aires, Argentina. Reinforced concrete conduit. 2,660,199, Nov. 24.

Moore, John R.: *See*—
Denker, Charles T., and Moore.

Moore, Leonard O., Holdenville, Okla. Refrigerator having door operated valve means. 2,660,036, Nov. 24.

Moore, William F.: *See*—
Schmidt, Frederick W., Moore, and Edberg.

Moran, Archibald A., Mendham, N. J. Transom plate for outboard motorboats. 2,660,385, Nov. 24.

Morehouse, Glenn H., Glendale, assignor to Morehouse Industries, Los Angeles, Calif. Generating apparatus. 2,660,259, Nov. 24.

Morehouse Industries, assignee: *See*—
Morehouse, Glenn H.

Mork, George W., South Milwaukee, and J. E. Marson and T. G. Paulsen, Milwaukee, assignors to Bucyrus-Erie Company, South Milwaukee, Wis. Fluid filter. 2,660,317, Nov. 24.

Morrow, Clarence H., Shaker Heights, assignor to The Hotstream Heater Company, Cleveland, Ohio. Hot water tank flue baffle. 2,660,198, Nov. 24.

Morton, Henry E., assignor to Morton Manufacturing Company, Muskegon Heights, Mich. Portable milling machine. 2,660,096, Nov. 24.

Morton Manufacturing Company, assignee: *See*—
Morton, Henry E.

Morton Salt Company, assignee: *See*—
Farnsworth, William H.

Motor Products Corporation, assignee: *See*—
Eck, Floyd R.

Motor Wheel Corporation, assignee: *See*—
Miller, John W.

Muller, Alfred: *See*—
Bowden, Andrew T., Muller, Kolb, Hryniszak, and Zadnick.

Müller, Josef, Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Arrangement and construction of gasoline tanks. 2,660,348, Nov. 24.

Munro, George R., Massapequa, assignor to Waugh Equipment Company, New York, N. Y. Vibration and shock isolator. 2,660,386, Nov. 24.

Murphy, Harry S., Buffalo, N. Y. Forced air flow air-heating furnace. 2,660,160, Nov. 24.

Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 17-alpha-hydroxy-4-pregnene-3,6,20-trione and process. 2,660,585, Nov. 24.

Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 11-alpha-hydroxy-17-alpha-methyltestosterones and esters thereof. 2,660,586, Nov. 24.

Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 8-hydroxy-4-androstene-3,17-dione. 2,660,587, Nov. 24.

Murray Ohio Manufacturing Company, The, assignee: *See*—
Douglas, Alvin P., and Walters.

Murray, Royce L., W. H. McCure, and E. W. Garrison, Jr., assignors to USCO Power Equipment Corp., Birmingham, Ala. High-voltage fuse. 2,660,644, Nov. 24.

Nakken, Theodore H., New York, N. Y. Frequency division. 2,660,708, Nov. 24.

Nallinger, Friedrich K. H., Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Springing mechanism, especially for motor vehicles. 2,660,424, Nov. 24.

Naumann, Helmut, assignor to Voigtlander, A. G., Braunschweig, Germany. Device for exchangeable objectives of photographic cameras. 2,660,527, Nov. 24

Nava, Mario, Macclesfield, England. Burner for liquid fuels with combustion air under atmospheric pressure for industrial and domestic purposes. 2,660,234, Nov. 24.

Navy, United States of America as represented by the Secretary of, assignee: *See*—
Ley, Gordon, and Jones.

Nelson, August L., assignor to Hayes Manufacturing Corporation, Grand Rapids, Mich. Automobile door structure. 2,660,470, Nov. 24.

Nelson, Clarence L.: *See*—
Gage, Lonnie L., and Nelson.

Nelson, Donald O.: *See*—
Blackman, Birt G., and Nelson

Nelson, Evan H.: *See*—
Power, Ernest B., and Nelson.

Nelson, Theodore J.: *See*—
Polson, Olien, and Nelson.

Nepo Manufacturing Co.: *See*—
Passman, Nathan E.

Neustadter, Arnold, assignee: *See*—
Merkur, Martin.

Newby, Thomas H., Middlebury, Conn., assignor to United States Rubber Company, New York, N. Y. Antioxidants. 2,660,605, Nov. 24.

Newby, Thomas H., Middlebury, Conn., assignor to United States Rubber Company, New York, N. Y. Antioxidants. 2,660,606, Nov. 24.

Newcum, Kenneth M., assignor to Remco Incorporated, Zellenople, Pa. Indicator for visually observing flow of a liquid through a pipe. 2,660,144, Nov. 24.

Newell, Carl D., Clarksburg, W. Va. Drinking glass construction. 2,660,039, Nov. 24

Newman, Leopold, assignor to Falcon Fasteners, Inc., New York, N. Y. Fastening means. 2,660,084, Nov. 24.

New York Air Brake Company, The, assignee: *See*—
Elsworth, John V.

Nicholson, Edward W. S., Baton Rouge, La., assignor to Standard Oil Development Company. Adsorption-desorption process. 2,660,262, Nov. 24.

Nicolay, Karl, assignor to Duerkoppwerke Aktiengesellschaft, Bielefeld, Germany. Perforating machine. 2,660,244, Nov. 24.

Nielsen, A. C., Company, assignee: *See*—
Cordell, George R
Rahmel, Henry A.
Richards, Joseph M.
Rusch, Hugo L.
Scherbatskoy, Serge A.
Scherbatskoy, Serge A., and Freeman.

Nier, Alfred O. C., Minneapolis, Minn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Ion selector. 2,660,677, Nov. 24.

Nolan Company, The, assignee: *See*—
Merritt, Glenn W.

Noon, T. Cyril, Bainbridge Township, Geauga County, and R. J. Anderson, assignors to Thompson Products, Inc., Cleveland, Ohio. Jet pump fluid flow system. 2,660,232, Nov. 24.

Nopco Chemical Company, assignee: *See*—
Cunder, Joseph, and Licata.

Norbom, Ragnar A., assignor to Finnie & Norbom, New York, N. Y. Apparatus for the pneumatic evacuation of materials. 2,660,341, Nov. 24.

Norris, Edward E., Minneapolis, Minn. Projection compass. 2,659,972, Nov. 24.

Norquist, Glenn H., Jamestown, N. Y. Artistically shaped folding leg tables. 2,660,497, Nov. 24.

Norquist, Glenn H., Jamestown, N. Y. Table leg-pivot latch mechanism. 2,660,498, Nov. 24.

Norquist, Glenn H., Jamestown, N. Y. Edge fastening for table top coverings. 2,660,499, Nov. 24.

Norquist, Glenn H., Jamestown, N. Y. Table top construction. 2,660,500, Nov. 24.

North American Geophysical Co., assignee: *See*—
Cloud, Raymond T.

North, Hyrum K., and O. G. North, Salt Lake City, Utah. Beet topping machine. 2,660,017, Nov. 24.

North, Orlin G.: *See*—
North, Hyrum K. and O. G.

Northrop Aircraft, Inc., assignee: *See*—
Feeney, Thomas A., and Pierce.

Ochtman, Leonard, Ridgewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Slip clutch for screw actuators. 2,660,281, Nov. 24.

O'Connor, Bernard E., and R. E. King, Buffalo, N. Y., assignors to Houdaille-Hershey Corporation, Detroit, Mich. Fiber feeding and weighing mechanism. 2,660,393, Nov. 24.

Odlas, Georg, Vienna, Austria. Memorandum plate. 2,660,145, Nov. 24.

Office National d'Etudes et de Recherches Aeronautiques, assignee: *See*—
Doussain, Robert, Bousson, and Perrier.

O'Keefe, Charles J.: *See*—
Gever, Gabriel, and O'Keefe.

Olin Industries, Inc., assignee: *See*—
Barocca, Aldo J., and Seavey.
Pauls, Theron F.

Oliver, Bernard M., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Television correcting circuit. 2,660,614, Nov. 24.

Olsen, Ernest R., Muskegon, Mich. Piston ring. 2,660,494, Nov. 24.

Olson, Harold T., Baldwin, assignor to Remington Rand Inc., New York, N. Y. Film indexing. 2,660,089, Nov. 24.

Orellana, Ildefonso G.: *See*—
Harmon, William C., and Orellana.

Ormsby, Stewart D., Oswego, N. Y. Vertical stabilizer for vehicle wheels. 2,660,475, Nov. 24.

Osborn, Ralph C., assignor to Eureka Williams Corporation, Bloomington, Ill. Rotary brush for suction cleaners. 2,659,921, Nov. 24.

Ostrander, John K., Philadelphia, Pa. Off-peak electric water heating system. 2,660,657, Nov. 24.

Ostrow, Barnet D., Brooklyn, N. Y. Bright gold and gold alloy plating baths. 2,660,554, Nov. 24.

Ostwaldt, Erich, Berlin-Hermsdorf, assignor to Adrema Maschinenbau G. m. b. H., Berlin, Germany. Tab for addressing machine plates. 2,660,176, Nov. 24.

Otis Elevator Company, assignee: *See*—
Margles, Samuel G.

Otis, Herbert C., Dallas, and J. C. Luccous, Midland, Tex.; said Luccous assignor to said Otis. Regulator. 2,660,246, Nov. 24.

Owens-Illinois Glass Company, assignee: *See*—
Hansen, Melvin O.
Starner, John W.
Wilske, Julius E., McCormick, and Politsch.

Pacific Can Company, assignee: *See*—
Renard, Roland E.

Padgitt, Frank L., Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y. Production of sodium hydroxide and hydrogen from elemented sodium. 2,660,517, Nov. 24.

Page, Ancel S., Portland, Oreg. Means for reducing torsional strain on vehicles axles. 2,660,451, Nov. 24.

Page, Robert M., Washington, D. C. Radio echo ranging apparatus. 2,660,721, Nov. 24.

Paget, Win W., Mountain Brook, Ala., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Fluid pump. 2,660,365, Nov. 24.

Papalexis, Christopher G., assignee: *See*—
Elliott, Irwin.

Papalexis, Gregory C., assignee: *See*—
Elliott, Irwin.

Paragon Gear Works, Inc., assignee: *See*—
Richardson, Paul H.

Parker Appliance Company, The, assignee: *See*—
Bashark, Nicholas.

Parker, George E., assignor to Woodward Governor Company, Rockford, Ill. Vibration damping means for governor. 2,660,422, Nov. 24.

Parker, Louis W., Little Neck, assignor to International Standard Electric Corporation, New York, N. Y. Electronic color television. 2,660,684, Nov. 24.

Parker Pen Company, The, assignee: *See*—
Randolph, Robert W.

Parsons, C. A., & Company Limited, assignee: *See*—
Bowden, Andrew T., Muller, Kolb, Hryniszak, and Zadnick.

Passman, Anne G., assignee: *See*—
Passman, Nathan E.

Passman, Nathan E., assignee: *See*—
Passman, Nathan E.

Passman, Nathan E., assignor to N. E. Passman, and A. G. Passman, doing business as Nepo Manufacturing Co. Bracket. 2,660,391, Nov. 24.

Patin, Pierre C., Paris, France. Progressive change-speed gear. 2,660,073, Nov. 24.

Patterson, Ward S., Chappaqua, N. Y., assignor to Combustion Engineering, Inc. Burner for converting natural gas into gasoline components. 2,660,235, Nov. 24.

Patzel, Fred W., Lincoln, Nebr. Adjustable line jig for laying brick and concrete block walls. 2,659,973, Nov. 24.

Pauls, Theron F., Alton, assignor to Olin Industries, Inc., East Alton, Ill. Packaging explosives. 2,660,300, Nov. 24.

Paulsen, Thomas G.: *See*—
Mork, George W., Marson, and Paulsen.

Paulus, Henry G., Burlington, Vt. Lavatory attachment. 2,659,901, Nov. 24.

Paxton, Claude, El Paso, Tex. Paint can brush scraper. 2,660,333, Nov. 24.

Pearce, Robert T., Moses Lake, Wash. Forced air circulating heater. 2,660,161, Nov. 24.

Perfex Corporation, assignee: *See*—
Deubel, Justin A.

Perkins, Robert L.: *See*—
Field, William J., and Perkins.

Perrier, Louis: *See*—
Doussain, Robert, Bousson and Perrier.

Pestarini, Joseph M., Staten Island, N. Y. Speed control of electric machines. 2,660,701, Nov. 24.

Peterson, Durey H.: *See*—
Murray, Herbert C., and Peterson.

Petrie, James A.: *See*—
Haworth, Lionel and Petrie.

Pfanstiehl Chemical Company, assignee: *See*—
Holtz, Frederick C., Jr.

Phelps, William H., Ralston, Nebr. Front wheel mounting for mowers. 2,660,019, Nov 24.

Phillips, Lester E., Cazadero, assignor of one-half to J. C. Hamilton, Santa Rosa, Calif. Hand-guided motor-driven bark removing plow. 2,660,207, Nov. 24.

Phillips Petroleum Company, assignee: *See*—
Axe, William N., and Whitney.
Dean, Maurice R., and de Boisblanc.

Phipps, Orville, near Denver, Colo. Percussive drift drill. 2,660,483, Nov. 24

Pickard, Joseph A., assignor to The Metafiltration Company Limited, Hounslow, England. Means and method for the addition of insoluble comminuted solids to liquids flowing in pipes. 2,660,560, Nov. 24.

Pierce, Wallace B.: *See*—
Feeney, Thomas A., and Pierce.

Pitney-Bowes, Inc., assignee: *See*—
Herrick, William W., and Burckhardt.

Pittenger, Howard R., Jr., Somerville, and J. D. Verschoor, Martinsville, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Radiant heat exchange and acoustical structure for buildings. 2,660,409, Nov. 24.

Plax Corporation, assignee: *See*—
Burgess, James Q.

Pointer-Willamette Company, Inc., assignee: *See*—
Stigum, Tom, and Keerins.

Polacco, Etienne, Paris, France. Filter. 2,660,167, Nov. 24.

Politsch, Verney G.: *See*—
Wilske, Julius E., McCormick, and Politsch.

Polson, Olien and T. J. Nelson, Chicago, Ill. Window. 2,659,943, Nov. 24.

Pomelee, Carl S.: *See*—
Schwenzfeier, Carl W., Jr., and Pomelee.

Pomfrett, John M.: *See*—
St. Louis, James A., and Pomfrett.

Pontius, Oswald, Frankfurt am Main-Hochst, assignor to Farbwerke Hoechst A. G. vormals Meister Lucius und Brüning, Frankfurt am Main, Germany Syringe casing and stoppered cylindrical ampoule for direct injection. 2,660,168, Nov. 24.

Pool, Leonard P., Allentown, Pa., assignor to Air Products, Incorporated. Gaseous heat exchange. 2,660,038, Nov. 24.

Porter, William H., Phoenix, Ariz. Balanced well pump. 2,660,124, Nov. 24.

Powell, Edward R., North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Walking welder. 2,660,655, Nov. 24.

Power, Ernest B., Kenton, and E. H. Nelson, Harrow Weald, England, assignors to General Electric Company. Making quartz-to-metal seals. 2,659,964, Nov. 24.

Price Brothers & Company, Limited, assignee: *See*—
Hill, Harold S.

Priestley, William E., Kendall, N. Y. Peanut vine pulling machine. 2,660,013, Nov. 24.

Prime, Nathaniel S., assignor to Maryland Laboratories, Incorporated, Frederick, Md. Method and apparatus for the purification of liquids. 2,660,559, Nov. 24.

Pringle, Frank E., Jr., La Grange, Ill., assignor to Sperry Products, Inc., Danbury, Conn. Ultrasonic thickness measuring device. 2,660,054, Nov. 24.

Proctor Electric Company, assignee: *See*—
Wagner, Robert J., and Hortman.

Properzi, Ilario, Milan, Italy. Machine for the continuous casting of metal rods. 2,659,949, Nov. 24.

Properzi, Ilario, Milan, Italy. Machine for the continuous casting of metal rods. 2,659,948, Nov. 24.

Purington, Ellison S.: *See*—
Hammond, John H., Jr., and Purington.

Puritan Compressed Gas Corporation, assignee: *See*—
Welty, Charles H., and Hammon.

Purtle, Bert G.: *See*—
Glass, Loyd, and Purtle.

Putnam, Charles W., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Producing a fluorescent screen. 2,660,539, Nov. 24.

Putnam, Charles W., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fluorescent screen. 2,660,686, Nov. 24.

Pyenson, Harry, University City, assignor to Development Research, Inc., St. Louis, Mo. Dispensing tip for gas-pressure containers. 2,660,132, Nov. 24.

Raddatz, Donald A.: *See*—
Raddatz, Herman J. and D. A.

Raddatz, Herman J. and D. A., Redwood Falls, Minn. Driving mechanism for material conveyors. 2,660,263, Nov. 24.

Radio Corporation of America, assignee: *See*—
Bergson, Gustav.
Brown, George H.
Coleman, John H.
Daley, Charles W.
Johnson, Edward O.
Landon, Vernon D.

Rahmel, Henry A., Evanston, assignor to A. C. Nielsen Company, Chicago, Ill. System and apparatus for determining the listening habits of wave signal receiver users. 2,660,508, Nov. 24.

Rahmel, Henry A., Evanston, assignor to A. C. Nielsen Company, Chicago, Ill. Search signal apparatus for determining the listening habits of wave signal users. 2,660,663, Nov. 24.

Randolph, Robert W., Milton, assignor to The Parker Pen Company, Janesville, Wis. Ball-point writing instrument. 2,660,152, Nov. 24.

Rns, Max, Zurich, Switzerland. Circumferential cylinder register mechanism for rotary printing machines. 2,660,115, Nov. 24.

Rault, Michel, Sceaux, assignor to Societe Anonyme Usines Decoufle, Paris, France. Automatic tobacco feeding cigarette machine. 2,660,177, Nov. 24.

Rault, Michel, Sceaux, assignor to Societe Anonyme Usines Decoufle, Paris, France. Formation of the roll of tobacco in cigarette-making machines. 2,660,178, Nov. 24.

Rawlins, Charlotte M., administratrix: *See*—
Rawlins, Herbert L.

Rawlins, Herbert L., deceased, late of Pittsburgh, Pa., by C. M. Rawlins, administratrix, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,660,647, Nov. 24.

Ray, Robert H., Co., assignee: *See*—
Frowe, Eugene W.

Raymond, Lambert L., Minneapolis, Minn. Christmas tree ornament. 2,659,993, Nov. 24.

Raytheon Manufacturing Company, assignee: *See*—
West, Charles F.

Reading, Harold C., London, England. Drill grinding jig. 2,660,008, Nov. 24.

Reconstruction Finance Corporation, assignee: *See*—
Schwenzfeier, Carl W., Jr., and Pomelee.

Reinhold, Oscar A., Flossmoor, Ill. Knockdown chair. 2,660,228, Nov. 24.

Reitlinger, Otto, Kew Gardens, N. Y. Hydrogen chloride gas hardening of metal oxide powder. 2,660,569, Nov. 24.

Rekettye, Paul, Akron, assignor to The Sun Rubber Company, Barberton, Ohio. Ball winding machine. 2,660,379, Nov. 24.

Rekettye, Paul, Akron, assignor to The Sun Rubber Company, Barberton, Ohio. Apparatus for securing eye mechanisms in doll heads. 2,659,887, Nov. 24.

Remco Incorporated, assignee: *See*—
Newcum, Kenneth M.

Remington Rand Inc., assignee: *See*—
Olson, Harold T.

Renard, Roland E., Los Gatos, assignor to Pacific Can Company, San Francisco, Calif. Beverage defoaming device. 2,660,352, Nov. 24.

Republic Flow Meters Company, assignee: *See*—
Ackley, Robert A.
Smoot, William S.

Republic Patent Corporation, assignee: *See*—
Binks, Melvin J.

Republic Steel Corporation, assignee: *See*—
Harmon, William C., and Orellana.
Whitehouse, Irving P., and Krauss.

Revolta, Johnny F., Evanston, Ill. Golf jacket. 2,659,890, Nov. 24.

Reymond, Fernand, Le Sentier, Switzerland. Setting and like mechanism for timepieces. 2,660,025, Nov. 24.

Ribich, Thomas A., Cleveland, Ohio, assignor, by mesne assignments, to Weldon Tool Company. Pack feed control mechanism. 2,660,430, Nov. 24.

Rice, Wendell C., Coulee Dam, Wash. Ambulating water sprinkler. 2,660,472, Nov. 24.

Richards, Joseph M., Tulsa, Okla., assignor to A. C. Nielsen Company, Chicago, Ill. Search signal apparatus for determining the listening habits of wave signal receiver users. 2,660,664, Nov. 24.

Richardson, Paul H., Bridgewater, assignor to Paragon Gear Works, Inc., Taunton, Mass. Assemblage for exerting a clamping force. 2,660,264, Nov. 24.

Richey, Clarence B., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Trash clearing device for corn harvesters. 2,660,016, Nov. 24.

Richey, Clarence B., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Implement attachment for loader frames. 2,660,322, Nov. 24.

Rieckhoff, Robert J., Riverdale, Ill., assignor to Sinclair Refining Company, New York, N. Y. Cleaning spark plugs. 2,660,544, Nov. 24.

Rieke, John W.: *See*—
Doba, Stephen, Jr., and Rieke.

Ries, Lewis B., Monessen, Pa. Flight and bank level indicator. 2,659,984, Nov. 24.

Riley, Joseph J., and R. Alm, assignors to The Taylor-Winfield Corporation, Warren, Ohio. Timing and sequencing circuit. 2,660,654, Nov. 24.

Ringler, Mauryev, Stalina, Poland. Apparatus for cutting of rinsing pipes. 2,660,240, Nov. 24.

Rinkenbach, William H., Rockaway, N. J., assignor of one-half to Trojan Powder Company. Treating water soluble salt to decrease caking and rate of reaching by ground water. 2,660,541, Nov. 24.

Risley, Roger E., and H. L. Hoke, Bradford, Pa., assignors to Dresser Industries, Inc., Cleveland, Ohio. Multiple valve. 2,660,195, Nov. 24.

Robertshaw, Robert G., assignor to The General Electric Company Limited, London, England. Forming a particle coating on a metal component of an electric discharge device. 2,660,547, Nov. 24.

Robertson Paper Box Company Incorporated, assignee: *See*—
Tyrseck, Walter J.

Robeson, Max O., and R. A. Springer, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y. Isomerization of alkylene oxides. 2,660,609, Nov. 24.

Robins, Harry J., assignee: *See*—
Baca, Hugo H.

Robinson, Ernest L., and C. M. Gardiner, Schenectady, N. Y., assignors to General Electric Company. Composite multistage turbomachine rotor. 2,660,399, Nov. 24.

Robinson, James E., Pittsburgh, Pa., assignor to United States Steel Corporation. Annealing base construction. 2,660,420, Nov. 24.

Rochford, Michael J., Chicago, Ill. Sunbath tent. 2,659,905, Nov. 24.

Rock Island Millwork Company, assignee: *See*—
Dowling, Arthur P.

Rogers, John P., Liverpool, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Laundry appliance control panel construction. 2,660,273, Nov. 24.

Rohrman, Frederick A., Boulder, Colo. Removal of nitrogen from mixtures of combustible gases. 2,660,514, Nov. 24.

Roland, Frank E., Midway, assignor of one half to W. E. Williams, Auburn, Wash. Posthole forming machine. 2,660,403, Nov. 24.

Rolls-Royce Limited, assignee: *See*—
Griffith, Alan.
Haworth, Lionel, and Petrie.

Rolph, Donald L.: *See*—
Hopkins, George W., and Rolph.

Rosenblum, Leonard, Hillside, N. J., assignor to Star Metal Products Co., Brooklyn, N. Y. Roller catch. 2,660,464, Nov. 24.

Rosenboom, Gustaf H., Kalama, Wash. Adjustable chain saw bar. 2,660,204, Nov. 24.

Rosenthal, Henry, Yonkers, N. Y. Gas turbine cycle employing secondary fuel as a coolant. 2,660,032, Nov. 24.

Rortig, Walter, Oberhausen Sterkrade-Nord, assignor to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany. Catalytic hydrogenation of carbon monoxide. 2,660,599, Nov. 24.

Rowekamp, Edward F., assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio. Filling machine for containers. 2,660,356, Nov. 24.

Roy, Nereus H., Glenbrook, Conn., assignor to Waugh Equipment Company, New York, N. Y. Vibration and shock isolator. 2,660,387, Nov. 24.

Roy, Nereus H., Glenbrook, Conn., assignor to Waugh Equipment Company, New York, N. Y. Vibration and shock isolator. 2,660,423, Nov. 24.

Ruberoid Co., The, assignee: *See*—
Abraham, Herbert.

Ruf, Herman, Flushing, N. Y. Burette with variable capacity. 2,660,342, Nov. 24.

Ruhrchemie Aktiengesellschaft, assignee: *See*—
Rottig, Walter.

Rusch, Hugo L., Lambertville, N. J., assignor to A. C. Nielsen Company, Chicago, Ill. Recording apparatus. 2,660,509, Nov. 24.

Russell, Herbert H., assignor to The Greist Manufacturing Company, New Haven, Conn. Buttonhole attachment for sewing machines. 2,660,138, Nov. 24.

Russell, John, J. L. Edmund, and S. A. Felker, Portland, Oreg. Nonbendable yielding support vehicle splashguards. 2,660,453, Nov. 24.

Rutherford, John C., Hammondsport, N. Y. Vehicle mounted take-out plow. 2,660,104, Nov. 24.

Ryan, Kelly, Equipment Company, assignee: *See*—
Ryan, Kelly P.

Ryan, Kelly P., assignor to Kelly Ryan Equipment Company, Blair, Nebr. Disk harrow gang and frame connection. 2,660,014, Nov. 24.

Sabin, Harold A., Jr., Portland, Maine. Chimney cap. 2,660,105, Nov. 24.

Sadler, Cecil J., Rose Bay, near Sydney, New South Wales, Australia. Mechanism for numerically grouping booklets and the like. 2,660,101, Nov. 24.

Saemann, Franklin I., Warsaw, Ind. Pneumatic tourniquet. 2,660,174, Nov. 24.

Safford, Hurd W.: *See*—
Melnick, Laben M., Safford, and Silverman.

St. John, Norman P., Jacksonville, Fla. Attachment for end portions of soft fold collars. 2,659,891, Nov. 24.

St. Louis, James A., Cleveland Heights, and J. M. Pomfrett, Willoughby, Ohio, assignor to General Electric Company. High-pressure discharge lamp. 2,660,692, Nov. 24.

St. Regis Paper Company, assignee: *See*—
Trautschold, Reginald.

Sanborn Company, assignee: *See*—
Miller, Arthur.

Sandberg, Ray A., Waukegan, assignor to Houdaille-Hershey Corporation, North Chicago, Ill. Heat exchange panel and its manufacture. 2,660,412, Nov. 24.

Sandelin, Olle E., Cleveland, Ohio. Fiber drafting. 2,659,936, Nov. 24.

Santos, Gérard R., Philadelphia, Pa. Power generator. 2,660,030, Nov. 24.

Särnö, Bo G. A., Stora Essingen, Stockholm, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Heated roller blind. 2,660,659, Nov. 24.

Savitz, Christian W.: *See*—
Brixius, Jacob K., and Savitz.

Sawers, Percy C., Seattle, Wash. Sample taking device. 2,660,063, Nov. 24.

Scaffold Equipment Company, assignee: *See*—
Middendorf, Henry B.

Scalfe Company, assignee: *See*—
Turnbull, James C.

Scherbatskoy, Serge A., Tulsa, Okla., and R. L. Freeman, Evanston, assignors to A. C. Nielsen Company, Chicago, Ill. Lock out and recycling device for an apparatus for determining the listening habits of wave signal receiver users. 2,660,511, Nov. 24.

Scherbatskoy, Serge A., Tulsa, Okla., assignor to A. C. Nielsen Company, Chicago, Ill. Search signal apparatus for determining the listening habits of wave signal receiver users. 2,660,662, Nov. 24.

Scherbatskoy, Serge A., Tulsa, Okla., assignor to A. C. Nielsen Company, Chicago, Ill. Search signal apparatus for determining the listening habits of wave signal receiver users. 2,660,665, Nov. 24.

Schilling, Hugh K., St. Paul, Minn. Egg lifter. 2,660,469, Nov. 24.

Schilling, Paul A., assignor to Waldorf Paper Products Company, St. Paul, Minn. Covered tray. 2,660,362, Nov. 24.

Schindler, Harold C., assignor to The Euclid Road Machinery Co., Euclid, Ohio. Air booster steering. 2,660,255, Nov. 24.

Schleifenbaum, Werner, Leverkusen-Bayerwerk, assignor to Farbenfabriken Bayer, Leverkusen, Germany. Monoazodyestuff. 2,660,576, Nov. 24.

Schloen, John H., and K. Ekler, Montreal, Quebec, assignor to Canadian Copper Refiners Limited, Montreal East, Quebec, Canada. Process of and electrolyte for refining copper. 2,660,555, Nov. 24.

Schlueter, Ernest, Hollis, assignor, by mesne assignments, to Simmons Fastener Corporation, Albany, N. Y. Fastening device. 2,659,952, Nov. 24.

Schmidt, Frederick W., Branford, W. F. Moore, and A. R. Edberg, assignors to The A. C. Gilbert Company, New Haven, Conn. Hinge mounting for angular adjustment. 2,660,368, Nov. 24.

Schmidt, Paul, Wytheville, Va., assignor to Textile Machine Works, Wyomissing, Pa. Thread tension arrangement for knitting machines. 2,660,041, Nov. 24.

Schnürle, Adolf: *See*—
Kopf, Johann, Schnürle, and Elwert.

Schnürle, Gertrud: *See*—
Kopf, Johann, Schnürle, and Elwert.

Scholz, Theodore F., Somerville, N. J., and G. M. Smith, Oak Ridge, Tenn., assignors to American Cyanamid Company, New York, N. Y. Synthesis of 2-amino-4,6-dimethyl pyrimidine. 2,660,579, Nov. 24.

Schuck, Oscar H., and R. C. Alderson, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Angle of attack sensing device. 2,660,056, Nov. 24.

Schultz, Bobbie J., Hollywood, Calif. Hypersensitizing photographic film developer. 2,660,528, Nov. 24.

Schultz, Lawrence H., Batavia, N. Y. Antiglare visor mounting bracket. 2,660,390, Nov. 24.

Schulz, George K., Rockville, Conn., assignor to Underwood Corporation, New York, N. Y. Carriage controlled totalizer control mechanism. 2,660,369, Nov. 24.

Schwalbe, Georg, Hannover, Germany. Table serving for medical treatment of the human body. 2,660,495, Nov. 24.

Schwenzfeier, Carl W., Jr., Bay Village, and C. S. Pomelee, Elyria, assignors, by mesne assignments, to Reconstruction Finance Corporation, Cleveland, Ohio. Producing fluoridic compounds of beryllium of high purity. 2,660,515, Nov. 24.

Scott, Floyd L., A. E. Wisler, and H. B. Woods, assignors to Hughes Tool Company, Houston, Tex. Cutting tool and making. 2,660,405, Nov. 24.

Scranton, Charles J., La Porte, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Manure spreader. 2,660,439, Nov. 24.

Scripto, Inc., assignee: *See*—
Smith, Blanchard D., and Berry.

Scudder, Charles, Bayside, N. Y. Cord line chalker. 2,659,974, Nov. 24.

Sears, Melville, Ridgefield Park, N. J., assignor to Craftmaster Manufacturing Co., Inc., Ashtabula, Ohio. Portable device for scrubbing and rinsing automobile bodies and the like. 2,659,915, Nov. 24.

Seavey, Frederick R.: *See*—
Barocca, Aldo J., and Seavey.

Selas Corporation of America, assignee: *See*—
Von Ludwig, Davidlee.

Selberg, John P., Los Angeles, Calif., assignor to International Derrick & Equipment Company, Columbus, Ohio. Hinged base frame for portable derrick masts. 2,660,268, Nov. 24.

Senfleben, Paul W., Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Means for applying platforms and turning the toe ends of platform covers. 2,659,908, Nov. 24.

Seng Company, The, assignee: *See*—
Fox, Martin.

Seranne, Henri: *See*—
Gérard, Paul, and Séranne.

Serra, Vinto, Milan, Italy. Apparatus for continuous cinematographic projection. 2,660,088, Nov. 24.

Severson, Ole C., Derby, assignor to The Viking Tool Company, Shelton, Conn. Toolholder. 2,659,963, Nov. 24.

Shaddox, Robert H., Corpus Christi, Tex. Automatic friction type clutch. 2,660,280, Nov. 24.

Shafer, Paul W., Niagara Falls, and G. H. Wagner, Kenmore, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Alkyl silicon compounds. 2,660,597, Nov. 24.

Sharp, Fred L., and C. L. Leytwyler, Austin, Tex. Adjustable collar stay. 2,659,892, Nov. 24.

Shaw, Clifford: *See*—
Emblem, Harold G., Shaw, and Langrish-Smith.

Sheld, Clarence A.: *See*—
Walter, George E., Hornstein, and Sheld.

Shellmold & Machine Co., Inc., assignee: *See*—
Valyi, Emery I.

Shelton, Donald C., San Diego, Calif. Milk bottle thermometer support. 2,660,060, Nov. 24.

Sherman, Donald W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Pressed steel truck wheel. 2,660,477, Nov. 24.

Sherman, Harry H., and M. A. Silverman, assignors to P. Wall Mfg. Company, Grove City, Pa. Blowtorch hood. 2,660,231, Nov. 24.

Shipley, Willis E.: *See*—
Friedl, Anton J., and Shipley.

Siczkiewicz, Joseph, Jr.: *See*—
Voight, Herbert L., and Siczkiewicz.

Siegel, David T., assignee: *See*—
Berkelhamer, Louis H.

Sigworth, Harrison W., and B. A. Fries, El Cerrito, assignors to California Research Corporation, San Francisco, Calif. Measurement of films and deposits. 2,660,678, Nov. 24.

Silverberg, Carl G.: *See*—
Bernheim, Daniel P., and Silverberg.

Silverman, Alexander: *See*—
Melnick, Laben M., Safford, and Silverman.

Silverman, Myer A.: *See*—
Sherman, Harry H., and Silverman.

Simmons, Adrienne: *See*—
Simmons, Lewis M., Simmons, and Arnott.

Simmons Fastener Corporation, assignee: *See*—
Schlueter, Ernest.

Simmons, Lewis M., and A. Simmons, Rose Bay, near Sydney, New South Wales, and H. D. Arnott, Sydney, New South Wales, Australia. Thermostatic warning device. 2,660,143, Nov. 24.

Simpson, Harold N., Detroit, Mich., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Leg and caster mount. 2,659,927, Nov. 24.

Simpson, Hobart A., assignor to Vera Alonge, New York, N. Y. Tape cutter and splicing device. 2,660,221, Nov. 24.

Sinclair Refining Company, assignee: *See*—
Rieckhoff, Robert J.

Singer Manufacturing Company, The, assignee: *See*—
Ackerman, James E.

Sisco, William E.: *See*—
Hill, Alfred G., Medcalf, and Sisco.

Skellenger, Sidney R.: *See*—
Backofen, E. Ryan, Dunham, and Skellenger.

Skouse, Thomas J., Wilmington, A. C. Jennings, Edge Moor, and W. E. Haught, Wilmington, Del., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Material loading device. 2,660,394, Nov. 24.

Slater, S., and Son, assignee : *See*—
Slater, Sam.
Slater, Sam, assignor to S. Slater and Son, San Francisco, Calif. Leather jacket sleeve. 2,659,894, Nov. 24.
Smith, A. O., Corporation, assignee : *See*—
Blatz, Albert V.
Buehner, Howard A.
Sherman, Donald W.
Smith, Blanchard D., and D. R. Berry, Atlanta, Ga., assignors to Scripto, Inc. Writing instrument. 2,660,151, Nov. 24.
Smith, Frederick E., Cleveland Heights, assignor to Thompson Products, Inc., Cleveland, Ohio. Pump assembly. 2,660,384, Nov. 24.
Smith, George C., Glenside, assignor to The Budd Company, Philadelphia, Pa. Vented hopper chute for railway cars or the like. 2,659,897, Nov. 24.
Smith, Gordon M. : *See*—
Scholz, Theodore F., and Smith.
Smith, Joseph A., New York, N. Y. Smoking pipe. 2,660,179, Nov. 24.
Smith, L. C., & Corona Typewriters, Inc., assignee : *See*—
Kennedy, Charles H., Jr.
Smith, Mary M., Stamford, Conn. Typist's desk. 2,660,502, Nov. 24.
Smith, William R., Philadelphia, Pa., and G. R. Monaco, assignors to The A. C. Gilbert Company, New Haven, Conn. Toy with traveling figurette. 2,660,001, Nov. 24.
Smith, William M., Wheaton, B. F. Freeberg, and A. W. Tharp, assignors to Vapor Heating Corporation, Chicago, Ill. Making mercury column thermostats. 2,660,005, Nov. 24.
Smoot, William S., Highland Park, assignor to Republic Flow Meters Company, Chicago, Ill. Boiler control apparatus. 2,660,378, Nov. 24.
Snyder, Howard J., and E. A. Gendron, Jr., Tucson, Ariz. Filtering apparatus. 2,660,312, Nov. 24.
Societe Anonyme Usines Decoufle, assignee : *See*—
Rault, Michel.
Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine, assignee : *See*—
Marquaire, Charles.
Socony-Vacuum Oil Company, Incorporated, assignee : *See*—
Feasley, Charles F.
Updegraff, David M., and Wren.
Watkins, Thomas E.
Sochner, Howard C., assignor to The Mengel Company, Louisville, Ky. Producing plywood with a paper-faced platen. 2,660,548, Nov. 24.
Sollenberger, Lester D. : *See*—
Broussard, Robert F., Miller, Sollenberger, and Christensen.
Somers, Richard M., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonographic reproducing machine. 2,660,623, Nov. 24.
Sommers, Walter J. : *See*—
Gricar, Frank T., Jr., Sommers, and Meyer.
Sorensen, George E., Fairfield, Conn., assignor to Woodward Governor Company, Rockford, Ill. Speed governor. 2,660,421, Nov. 24.
Spack, Maurice, Brookline, Mass., assignor to Connecticut Footwear, Inc., Shelton, Conn. Producing retainer-welt slipper. 2,659,911, Nov. 24.
Sparrow, Maxwell E., assignee : *See*—
Luebkert, Fred E.
Specialties Development Corporation, assignee : *See*—
Uhl, Arthur W.
Sperry Corporation, The, assignee : *See*—
Campbell, David J., McCabe, and Harris.
Sperry Products, Inc., assignee : *See*—
Pringle, Frank E., Jr.
Springer, Richard A. : *See*—
Robeson, Max O., and Springer.
Squire, Frederick J., Milton, and P. D. Stengel, Belmont, Mass., assignors to Lever Brothers Company, New York, N. Y. Elimination of objectionable odors from soap. 2,660,589, Nov. 24.
Standard Oil Company, assignee : *See*—
Bowman, Norman J.
Standard Oil Company, The, assignee : *See*—
Foreman, Robert W., and Fink.
Standard Oil Development Company, assignee : *See*—
Banes, Fred W., and Lippincott.
Bethea, Sam R.
Blanding, Forrest H.
Knox, William T., Jr.
Leyden, George B.
Nicholson, Edward W. S.
Wiese, Herbert K.
Standard Register Company, The, assignee : *See*—
Davidson, John T., and Kroemer.
Stanford, James M., Fort Lauderdale, Fla. Payroll computer. 2,660,376, Nov. 24.
Stankey, John E., Altadena, Calif., assignor to the United States of America as represented by the Secretary of the Air Force. Step attenuator switch. 2,660,626, Nov. 24.
Stanley, Richard W., Lakewood, Ohio, assignor to American Viscose Corporation, Wilmington, Del. Thread advancing reel. 2,659,955, Nov. 24.
Star Metal Products Co., assignee : *See*—
Rosenblum, Leonard.
Starner, John W., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Dispensing closure and container. 2,660,344, Nov. 24.
Steger Products Manufacturing Corporation, assignee : *See*—
Larsen, Harvey E.
Stengel, Peter D. : *See*—
Squire, Frederick J., and Stengel.
Stiblitz, George R., Burlington, Vt. Mechanical differential. 2,660,064, Nov. 24.
Stigum, Tom, Portland, and G. D. Keerins, West Linn, assignors to Pointer-Willamette Company, Inc., Portland, Oreg. Beam suspension for vehicles. 2,660,450, Nov. 24.
Stocker, Fritz : *See*—
Suter, Hans, Stocker, and Zutter.
Stoddard, Alexander, assignor to J. G. Marshall, Auburn, Maine. Tie rod lock. 2,660,460, Nov. 24.
Stoner, Lewis D., assignor to Alston Manufacturing Co., Oakland, Calif. Weed destroying device. 2,659,918, Nov. 24.
Strayer, Daniel H., Los Angeles, Calif. Name or directory card holder. 2,659,991, Nov. 24.
Strayer, Lawrence H., Kent, Ohio. Toy sounding flash gun. 2,660,000, Nov. 24.
Strom, Albert P. : *See*—
Wallace, James M., and Strom.
Strömberg, Bror W., Stockholm, Sweden. Position indicator. 2,660,719, Nov. 24.
Summerhayes, Harry R., Jr., Schenectady, and E. D. Cook, Scotia, N. Y., assignors to General Electric Company. Microwave protective system. 2,660,718, Nov. 24.
Sun Rubber Company, The, assignee : *See*—
Rekettye, Paul.
Sundholm, Edwin P., Albert City, Iowa. Flower-plate for lubricant containers and the like. 2,660,491, Nov. 24.
Superior Coach Corporation, assignee : *See*—
Donathan, Francis E.
Surface Combustion Corporation, assignee : *See*—
Hughes, George E.
Suter, Hans, Dorflingen, F. Stocker, Feuerthalen, and H. Zutter, assignors to Cilag Limited, Schaffhausen, Switzerland. Quaternary nicotinic acid amide derivatives and production thereof. 2,660,582, Nov. 24.
Swansick, William B., Hayward, Calif. Apparatus for intercepting primers and the like. 2,660,085, Nov. 24.
Sweet, Cecil H., Hobbs, N. Mex., assignor to Sweet Oil Well Equipment, Incorporated. Retrievable well packer. 2,660,247, Nov. 24.
Sweet Oil Well Equipment, Incorporated, assignee : *See*—
Sweet, Cecil H.
Sweger, Theodore J., and M. S. Johnson, assignors to Illinois Railway Equipment Company, Chicago, Ill. Brakehead wear plate and key wedge. 2,660,267, Nov. 24.
Swenson, Erich S., assignor to Flour City Ornamental Iron Co., Minneapolis, Minn. Transom construction for boats. 2,660,142, Nov. 24.
Sylvania Electric Products Inc., assignee : *See*—
Breeden, Francis C., and Elsaman.
Tarof, Ernest L., Jersey City, N. J. Grating. 2,660,102, Nov. 24.
Taylor, Bernardo E., assignor to M. E. Michaelson and J. Gold, New York, N. Y. Impression material. 2,660,570, Nov. 24.
Taylor, Ernest F. : *See*—
Bopp, Frederick W. and E. O., and Taylor.
Taylor, Ralph G., Milford Station, Nova Scotia, Canada. Tire bead loosening lever. 2,660,229, Nov. 24.
Taylor, Taylor & Hobson Limited, assignee : *See*—
Cook, Gordon H.
Wreathall, William M.
Taylor-Winfield Corporation, The, assignee : *See*—
Riley, Joseph J., and Alm.
Teichmann, Charles F., Crestwood, assignor to Texaco Development Corporation, New York, N. Y. Generation of carbon monoxide and hydrogen. 2,660,521, Nov. 24.
Tennessee Valley Authority, assignee : *See*—
Haseman, Joseph F.
Ter Veen, Louis A. G., assignor to Bendix Aviation Corporation, North Hollywood, Calif. High-frequency variable coupling structure. 2,660,714, Nov. 24.
Tesla, national corporation, assignee : *See*—
HÁjek, Karel.
Texaco Development Corporation, assignee : *See*—
Teichmann, Charles F.
Texas A. & M. Research Foundation, assignee : *See*—
Knowlton, Richard L.
Textile Machine Works, assignee : *See*—
Schmidt, Paul.
Th. Goldschmidt A.-G., assignee : *See*—
Bungardt, Walter.
Thomas, James G., Cleveland, Ohio. Welding vise. 2,660,141, Nov. 24.
Thomas, William A., Plainville, Conn., assignor, by mesne assignments, to General Electric Company. Circuit breaker. 2,660,637, Nov. 24.
Tharp, Alva W. : *See*—
Smith, William M., Freeberg, and Tharp.

Thommen, Willy, assignor to J. R. Geigy A. G., Basel, Switzerland. Apparatus for testing the fastness of dyeings on wetted textiles. 2,660,055, Nov. 24.
Thompson, Ernest H., Glenview, Ill. Magazine for dispensing machines. 2,660,340, Nov. 24.
Thompson, Ernest H., Glenview, Ill. Product dispensing machine. 2,660,351, Nov. 24.
Thompson Products, Inc., assignee : *See*—
Anderson, David E.
Curtis, William H., Aspelin, and Carter.
Noon, T Cyril, and Anderson.
Smith, Frederick E.
Thorsen, John I. : *See*—
Camp, Thomas P., Thorsen, and Besal.
Thrasher, Clyde E., McKinney, and F. A. Grosz, Marshall, Tex. Electrocardiograph electrode. 2,660,175, Nov. 24.
Timken Roller Bearing Company, The, assignee : *See*—
Jones, Harry M.
Tinley, Ernest L., Wolverhampton, and H. A. Hallett, Cheltenham, assignors to Joshua Bigwood & Son, Limited, Wolverhampton, England. Machine for operating on metal stock by rollers. 2,660,214, Nov. 24.
Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Sheet metal snap fastener. 2,659,951, Nov. 24.
Tinnerman Products, Inc., assignee : *See*—
Tinnerman, George A.
Tittle, Barbara B., South Bend, Ind. Pinless diaper. 2,660,172, Nov. 24.
Toelcke, Magnus E., San Jose, Calif. Collect chuck. 2,660,441, Nov. 24.
Toth, Julius, Beaver, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,660,643, Nov. 24.
Touraton, Emile, and R. Zwobada, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y. Ultrahigh-frequency vacuum tube. 2,660,689, Nov. 24.
Toye, Robert W., Winona, Minn. Apparatus for avoiding moisture condensation on toilet flush tanks. 2,659,898, Nov. 24.
Trautschold, Reginald, Nutley, N. J., assignor to St. Regis Paper Company, New York, N. Y. Apparatus for opening and emptying bags. 2,660,324, Nov. 24.
Trickett, Lawrence G., Jr., Kansas City, Kans., and C. O. Deem, Kansas City, assignors to Crook Paper Box Company, North Kansas City, Mo. Collapsible box having interlocking end walls. 2,660,363, Nov. 24.
Trico Products Corporation, assignee : *See*—
Horton, Erwin C.
Triplett, Herman R., assignee : *See*—
Lucy, Otto H.
Trojan Powder Company, assignee : *See*—
Rinkenbach, William H.
Tromel, Frederic C., Schenectady, assignor to American Locomotive Company, New York, N. Y. Exhaust manifold for internal-combustion engines. 2,660,031, Nov. 24.
Tsuchiya, Henry M. : *See*—
Koepsell, Harold J., Tsuchiya, and Hellman.
Turnbull, James C., assignor to Scaife Company, Oakmont, Pa. Fabricating welded girth joints. 2,659,966, Nov. 24.
Turner, Edwin E., Oxford, Miss. Control for model airplanes. 2,659,999, Nov. 24.
Tyrseck, Walter J., assignor to Robertson Paper Box Company Incorporated, Montville, Conn. Partitioned carton. 2,660,361, Nov. 24.
Tyskewicz, John P. : *See*—
Bourne, Roland B., and Tyskewicz.
Tyson, Miller S., Longmeadow, Mass. Tilt headed tap bolt. 2,660,083, Nov. 24.
USCO Power Equipment Corp., assignee : *See*—
Murray, Royce L., McCure, and Garrison.
Uhl, Arthur W., Inwood, N. Y., assignor to Specialties Development Corporation, Belleville, N. J. Apparatus for detecting suspended matter in fluids. 2,660,052, Nov. 24.
Underwood Corporation, assignee : *See*—
Schulz, George K.
Union Barbide and Carbon Corporation, assignee : *See*—
Shafer, Paul W., and Wagner.
Union Special Machine Company, assignee : *See*—
Attwood, John G.
Union Steel Products Company, assignee : *See*—
Averill, Charles C.
United Shoe Machinery Corporation, assignee : *See*—
Bliss, Robert H.
Gates, William O.
Lutyens, John L.
Mawbey, Lawrence.
Senfleben, Paul W.
United States Atomic Energy Commission, United States of America as represented by the, assignee : *See*—
Nier, Alfred O. C.
United States Gypsum Company, assignee : *See*—
Camp, Thomas P., Thorsen, and Besal.
United States Rubber Company, assignee : *See*—
Clayton, Alfred B., and Hale.
Hoffman, John J.
Newby, Thomas H.
United States Steel Corporation, assignee : *See*—
Abbett, William A., Jr., and Diaz.
Brickman, Alan E.
Demmon, Harvey, and Houk.
Friedl, Anton J., and Shipley.
Hartney, James L.
Kelso, John W.
Lane, John R.
Lorig, Edwin T.
McNamee, Owen A.
Robinson, James E.
Watson, Coleman H.
Updegraff, David M., and G. B. Wren, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Secondary recovery of petroleum oil by desulfoyibrio. 2,660,550, Nov. 24.
Upjohn Company, The, assignee : *See*—
Cookson, Leonard T.
Murray, Herbert C., and Peterson.
White, John L.
Urtel, Rudolf, Ptorzheim, Germany, assignor to International Standard Electric Corporation, New York, N. Y. Method and means for generating impulses of large keying ratio. 2,660,672, Nov. 24.
Vaksvik, Adrian J., assignor to Chicago Telephone Supply Corporation, Elkhart, Ind. Snap switch. 2,660,633, Nov. 24.
Valyi, Emery I., New York, N. Y. Mold-forming machine. 2,659,944, Nov. 24.
Valyi, Emery I., Bronx, assignor to Shellmold & Machine Co., Inc., New York, N. Y. Mold forming machine. 2,659,945, Nov. 24.
Van Gundy, Joseph F., Emporia, Kans. Pipe tool. 2,659,975, Nov. 24.
Van Wirt, Alfred E., assignor to Imperial Paper and Color Corporation, Glens Falls, N. Y. Wall-covering package. 2,660,299, Nov. 24.
Vapor Heating Corporation, assignee : *See*—
Lehane, Timothy J.
Smith, William M., Freeberg, and Tharp.
Veale, John H. : *See*—
West, Howard F.
West, Howard F., and Veale.
Vecchiotti, Ado, Ascoli Piceno, Italy. Tooth facing and backing therefor. 2,659,971, Nov. 24.
Veeder-Root Incorporated, assignee : *See*—
Bliss, Harvey N., and Wild.
Veenschoten, Vincent V., Erie, Pa., assignor to Continental Foundry and Machine Company, East Chicago, Ind. Dual control mechanism for valves and the like. 2,660,072, Nov. 24.
Venus Foundation Garments, Inc., assignee : *See*—
Diebold, George L.
Verschoor, Jack D. : *See*—
Pittenger, Howard R., Jr.
Vickers-Armstrongs Limited, assignee : *See*—
Kirby, Wilfred.
Viking Tool Company, The, assignee : *See*—
Severson, Ole C.
Villalba, Pedro D., Madrid, Spain. Permutation lock and key. 2,660,047, Nov. 24.
Vlachos, Constantinos H., Vancouver, Wash. Thermohydraulic power converter. 2,660,123, Nov. 24.
Vogelsang, Francis H. : *See*—
Worrell, Robert L., Lehker, and Vogelsang.
Vogt, Clarence W., Norwalk, Conn. Apparatus for and method of combining enwrapments. 2,660,098, Nov. 24.
Vogt, Joseph B., Grosse Pointe Park, Mich. Liquid level indicator. 2,660,058, Nov. 24.
Voigt, Herbert L., and J. Slezkiewicz, Jr., assignors to Geuder, Paeschke & Frey Co., Milwaukee, Wis. Support for ironing tables. 2,659,990, Nov. 24.
Voigtlander, A. G., assignee : *See*—
Naumann, Helmut.
Volpin, Alexander S., Houston, Tex. Gate valve. 2,660,191, Nov. 24.
Volpin, Alexander S., Miami Beach, Fla. Quick sealing automatic sealing gate valve. 2,660,397, Nov. 24.
Von Hauteville, Tankred, Stuttgart, Wurttemberg, Germany, assignor to International Standard Electric Corporation, New York, N. Y. Arrangement of electrodes for dielectric radio-frequency heating of nonconductors, for example, thermoplastic materials. 2,660,660, Nov. 24.
Von, Isaiah, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y. Reduction of quinone compounds. 2,660,580, Nov. 24.
Von Ludwig, Davidlee, Brooklyn, N. Y., assignor, by mesne assignments, to Selas Corporation of America, Philadelphia, Pa. Electromagnetic vibrator apparatus for treating molten metal. 2,660,414, Nov. 24.
Waggener, Frances S., Davis, Calif. Clip for contoured hair. 2,660,184, Nov. 24.
Wagner, George H. : *See*—
Shafer, Paul W., and Wagner.
Wagner, Robert J., Philadelphia, and H. E. Hortman, Jr., Southampton, assignors to Proctor Electric Company, Philadelphia, Pa. Cooking apparatus. 2,660,658, Nov. 24.

Wagner, Willard F., assignor of one-half to C. W. Glenn, Detroit, Mich. Lighter. 2,660,042, Nov. 24.

Waldorf Paper Products Company, assignee: *See*—
Dunning, Robert M.
Schilling, Paul A.

Walker, Eugene J.: *See*—
Gelzheiser, Francis L., and Walker.

Walker, George B., Portarlington, Victoria, Australia. Exhaust muffler with expansion chamber. 2,660,256, Nov. 24.

Wall, P., Mfg. Company, assignee: *See*—
Sherman, Harry H., and Silverman.

Wallace, James M., and A. P. Strom, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic reclosing circuit breaker. 2,660,636, Nov. 24.

Wallace, William E.: *See*—
Williams, William W., and Wallace.

Walsh, Edward J., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,660,688, Nov. 24.

Walter, George E., Baltimore, I. Hornstein, East Riverdale, and C. A. Sheld, Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Flameproofed article and making same. 2,660,542, Nov. 24.

Walter, George E., Baltimore, I. Hornstein, East Riverdale, and C. A. Sheld, Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Flameproofing polymers. 2,660,543, Nov. 24.

Walter, Joseph M.: *See*—
Lantz, Willard J., and Walters.

Walterman, Fredrick H., and J. P. Malmrose, assignors to Kewanee Manufacturing Company, Kewanee, Ill. Door-frame. 2,660,272, Nov. 24.

Walters, Leonard J.: *See*—
Douglas, Alvin P., and Walters.

Warner & Swasey Company, The, assignee: *See*—
Darash, Nicholas P.

Warren, Robert E., Marblehead, Mass., assignor to General Electric Company. Electrical circuit breaker. 2,660,642, Nov. 24.

Watkins, Thomas E., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Treating drilling fluids to reduce water losses. 2,660,561, Nov. 24.

Watson, Coleman H., Birmingham, Ala., assignor to United States Steel Corporation. Apparatus for conveying magnetizable sheets. 2,660,318, Nov. 24.

Watt, Alexander B., Handsworth, Birmingham, assignor to G. K. N. Group Services Limited, Smethwick, England. Heading and like machine. 2,659,906, Nov. 24

Waugh Equipment Company, assignee: *See*—
Munro, George R.
Roy, Nereus H.

Webb, Jervis B., Company, assignee: *See*—
Boyko, John, and McCanl.

Weber, Nicholas, Teaneck, assignor to Condenser Service & Engineering Co. Inc., Hoboken, N. J. Leakage control tube mounting for double tube plate heat exchangers. 2,660,411, Nov. 24.

Webster, Alexander H., London, assignor to R. W. Webster and Company Limited, Abbey Ironworks, Waltham Cross, England. Method and apparatus for controlling the liquid seals on steam sterilizers. 2,660,512, Nov. 24

Webster, R. W., and Company Limited, assignee: *See*—
Webster, Alexander H.

Wein, Joseph, Chicago, Ill. Ball type caster. 2,659,926, Nov. 24.

Welcher, Alice D.: *See*—
Young, Richard W., Blodinger, and Welcher.

Weldon Tool Company, assignee: *See*—
Ribich, Thomas A.

Welty, Charles H., Kansas City, Mo., and G. L. Hammon, Oakland, Calif., assignors to Puritan Compressed Gas Corporation, Kansas City, Mo. Fluid pressure regulator structure. 2,660,187, Nov. 24.

West, Charles D., Orlando, Fla. Trim molding fastening means and method. 2,659,950, Nov. 24.

West, Charles F., Stoughton, assignor to Raytheon Manufacturing Company, Newton, Mass. Electron discharge device. 2,660,669, Nov. 24.

West, Howard F., and J. H. Veale, assignor to Illinois Clay Products Company, Joliet, Ill. Refractory and its manufacture. 2,660,533, Nov. 24.

West, Howard F., Joliet, and J. H. Veale, Coal City, assignors to Illinois Clay Products Company, Joliet, Ill. Blast furnace operation. 2,660,534, Nov. 24.

West, Howard F., and J. H. Veale, assignors to Illinois Clay Products Company, Joliet, Ill. Bonded articles and their manufacture. 2,660,535, Nov. 24.

West, Howard F., Joliet, and J. H. Veale, Coal City, assignors to Illinois Clay Products Company, Joliet, Ill. Unfired refractories and their preparation. 2,660,536, Nov. 24.

West, Howard F., and J. H. Veale, assignor to Illinois Clay Products Company, Joliet, Ill. Bonded refractory and its manufacture. 2,660,537, Nov. 24.

Westendorp, Willem F., Schenectady, N. Y., assignor to General Electric Company. Magnetic induction accelerator. 2,660,673, Nov. 24.

Western Electric Company, Incorporated, assignee: *See*—
Ames, William L., and Hennessey.

Westinghouse Electric Corporation, assignee: *See*—
Altar, William.
Austin, Bascum O.
Brane, Maxwell D., and McLanahan.
Clokey, John W., and Laughner.
Curtino, William H.
Duckett, Edward J., and Klotzbaugh.
Garbuny, Max.
Gelzheiser, Francis L., and Walker.
Helot, Albert R. J.
Hill, Jerald E.
Marbury, Ralph E.
Putnam, Charles W.
Rawlins, Herbert L.
Toth, Julius.
Wallace, James M., and Strom.
Wolf, Samuel.

Whirlpool Corporation, assignee: *See*—
Geldhof, Peter E.

White, John L., Kalamazoo, Mich., assignor to The Upjohn Company. High-speed continuous extractor. 2,660,518, Nov 24.

White, William C., and H. W. Lord, Schenectady, N. Y., assignors to General Electric Company. Device for producing reciprocating or lateral motion. 2,660,671, Nov 24.

Whitehouse, Irving P., South Euclid, and W. W. Krauss, assignors to Republic Steel Corporation, Cleveland, Ohio. Closet and wall construction. 2,660,269, Nov. 24.

Whitney, Lyman F., Boston, W. E. Whitney, Belmont, and D. F. Comstock, Lincoln, assignors to Comstock & Wescott, Inc., Cambridge, Mass. Hot-water generator and storage system. 2,660,163, Nov. 24.

Whitney, William B.: *See*—
Axe, William N., and Whitney.

Whitney, William E.: *See*—
Whitney, Lyman F., Whitney and Comstock.

Wiese, Herbert K., Cranford, N. J., assignor to Standard Oil Development Company. Preparing branched primary sulfate esters. 2,660,602, Nov. 24

Wiesner, Wayne, and F. Field, Palo Alto, Calif. Convertible vehicle. 2,660,442, Nov. 24.

Wigren, Adolph G., assignee: *See*—
Gersman, Harvey M.

Wild, Henry, Surveying Instruments Supply Co. Ltd. assignee: *See*—
Bertele, Ludwig

Wild, Otto, Jr.: *See*—
Bliss, Harvey N., and Wild.

Wilds, Alfred L., assignor to Wisconsin Alumni Research Foundation, Madison, Wis. Preparing 17-carbalkoxy steroids. 2,660,584, Nov. 24.

Wilfley, A. R., and Sons, Inc., assignee: *See*—
Wilfley, Elmer R.

Wilfley, Elmer R., Denver, Colo., assignor to A. R. Wilfley and Sons, Inc. Centrifugal pump bearing seal. 2,660,487, Nov 24.

Wilkie, Stanley A., Muskegon, Mich. Distributor heater. 2,660,656, Nov. 24

Williams, Earl C., Syracuse, N. Y. Mechanism for changing rotary motion to oscillating motion. 2,660,065, Nov. 24

Williams, Earl C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Washing machine with direct motor drive. 2,660,044, Nov. 24.

Williams, John C., Cambridge, Mass. Apparatus for frequency division. 2,660,668, Nov 24.

Williams, Lynn B., Berkeley, and J. C. Calkins, Bolinas, Calif., said Calkins assignor to said Williams. Pitting structure. 2,660,208, Nov. 24.

Williams, William W., Easton, Pa., and W. E. Wallace, Rensselaer, assignors to General Aniline & Film Corporation, New York, N. Y. Triazine fluorescent agents. 2,660,578, Nov 24.

Williams, W. E., assignee: *See*—
Roland, Frank E.

Williamson, John W., assignee: *See*—
Dunn, Charles W.

Willis, Kirk P., Wagoner, Okla. Recumbent shower bath. 2,659,899, Nov. 24.

Wilske, Julius E., F. A. McCormick, and V. G. Politsch, Alton, Ill., assignors to Owens-Illinois Glass Company. Apparatus for conveying and stacking box blanks. 2,660,432, Nov. 24.

Wilson, Christopher L., assignee: *See*—
Hammon, Henry G.

Wilson, John H., Wichita Falls, Tex. Rotary work holding table. 2,660,074, Nov. 24.

Wilson, John H., Wichita Falls, Tex. Level winding device. 2,660,382, Nov. 24.

Wing, William A., assignor to Milsco Manufacturing Company, Milwaukee, Wis. Seat back rest support. 2,660,226, Nov. 24.

Winther, Anthony: *See*—
Winther, Martin P. and A., and Gill.

Winther, Martin P., Gates Mills, Ohio, A. Winther, Kenosha, Wis., and A. S. Gill, Jr., Maple Heights, assignors to Eaton Manufacturing Company, Cleveland, Ohio. Transmission control system. 2,660,071, Nov. 24.

Winzen, Otto C.: *See*—
Johnson, Kermit F., La Mere, and Winzen.

Wisconsin Alumni Research Foundation, assignee: *See*—
Wilds, Alfred L.

Wisler, Allen E.: *See*—
Scott, Floyd L., Wisler, and Woods.

Wolf, Samuel, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,660,640, Nov. 24.

Wood, Delos R., St. Paul, Minn. Vacuum floor tool. 2,659,925, Nov. 24.

Wood, Frank M., Jr., Fort Worth, Tex. Color television receiving system. 2,660,612, Nov. 24.

Wood, Joseph D., Strafford Village, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Air operated circuit breaker. 2,660,635, Nov. 24

Woodall Industries, Inc., assignee: *See*—
Greig, James W.

Woods, Henry B.: *See*—
Scott, Floyd L., Wisler, and Woods.

Woodsworth, Leland A., Roxbury, Mass. Safety seat for vehicles. 2,660,222, Nov. 24.

Woodward Governor Company, assignee: *See*—
Parker, George E.
Sorensen, George E.

Woolf, James W., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Switch. 2,660,627, Nov. 24.

Woolsey, Theodore A., Inglewood, Calif. Coupling clamp with constant spring loading. 2,659,953, Nov. 24.

Woolsey, Theodore A., Inglewood, Calif. Coupling clamp with constant spring loading. 2,659,954, Nov. 24.

Worrell, Robert L., La Porte, H. J. Lehker, North Liberty, and F. H. Vogelsang, La Porte, Ind., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Remote control for power units. 2,660,277, Nov. 24.

Wreathall, William M., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Two member optical objective. 2,660,094, Nov 24.

Wren, Gloria B.: *See*—
Updegraff, David M., and Wren

Wright, Elvin S., Shrewsbury, Mass. Storage file for program tapes. 2,660,506, Nov. 24.

Wright, Richard H., Bratenahl, and A. Zay, assignor to Guarantee Specialty Manufacturing Company, Cleveland, Ohio. Combination Venetian blind tape fastener, cord anchor, pulley support, and cover therefor. 2,660,238, Nov. 24.

Wulff, Cal W., Chicago, Ill., assignor to Holland Company. Truck damping device. 2,660,129, Nov. 24.

Wullschleger, August, Olten, Switzerland. Parking device for vehicles. 2,660,320, Nov. 24.

Yale, Marion W., Salida, Colo. Self-loading semiautomatic pistol. 2,659,994, Nov. 24

Yetter, Harry G., Colchester, Ill. Combination arbor and support for power-driven rotary tools. 2,660,205, Nov. 24.

York, Ernest E., Portland, Maine, assignor to American Coin Changer Corp., Boston, Mass. Control apparatus for vending machines. 2,660,284, Nov. 24.

Young, Douglas, Inc., assignee: *See*—
Young, Lewis D.

Young, Lewis D., Providence, R. I., assignor to Douglas Young, Inc. Display box. 2,660,294, Nov. 24.

Young, Norman H., Jr., Nutley, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Simultaneous control system for a plurality of picture signal characteristics. 2,660,613, Nov. 24.

Young, Richard W., and J. Blodinger, Stamford, and A. D. Welcher, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of tetraalkylpyrophosphites. 2,660,603, Nov. 24.

Zadnick, Otto: *See*—
Bowden, Andrew T., Muller, Kolb, Hryniszak, and Zadnick.

Zay, Anthony: *See*—
Wright, Richard H., and Zay.

Zelser, James F., Lafayette, Ind. Fence post driver and digger. 2,660,035, Nov. 24.

Zore, Edward F., Milwaukee, Wis., assignor to Handee Products, Inc. Pattern tool. 2,659,983, Nov. 24.

Zutter, Hans: *See*—
Suter, Hans, Stocker, and Zutter.

Zwobada, René: *See*—
Touraton, Emile and Zwobada.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 24TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Friction type exerciser, Push and pull. H. N. Magida. Re. 23,744, Nov. 24.

Fungicidal salts of alkylene bisdithiocarbamic acid. W. F. Hester. Re. 23,742, Nov. 24.

Vibration isolator. F. Lambert, Jr., and C. E. Crede. Re. 23,743, Nov. 24.

LIST OF PLANT INVENTIONS

Fuchsia plant. H. M. Tiret. 1,231, Nov. 24.

LIST OF DESIGN INVENTIONS

Accordion grill. V. Castiglione. 170,909, Nov. 24.

Ash tray. W. Gillarde. 170,916, Nov. 24.

Barbecue brazier. J. O. Reinecke. 170,943, Nov. 24.

Brooch or similar article, Adjustable. M. Boucher. 170,907, Nov. 24.

Cage for birds, Show. B. W. Womack. 170,957, Nov. 24.

Cart, Utility. R. D. Garlock. 170,915, Nov. 24.

Chair. W. Urda. 170,954, Nov. 24.

Clip or similar article. R. Semensohn. 170,950, Nov. 24.

Clock or similar article. K. Lendrait. 170,929, Nov. 24.

Dog toilet, Sanitary. F. Bloom. 170,906, Nov. 24.

Door closer. E. L. Schlage. 170,949, Nov. 24.

Earring or the like. A. Philippe. 170,941, Nov. 24.

Faucet, Mixing and dispensing. A. Turak. 170,953, Nov. 24.

Fireplace. G. Kosmak. 170,927, Nov. 24.

Game apparatus, Spiral type rolling ball skill. R. N. Carver. 170,908, Nov. 24.

Game apparatus, Upright spiral rolling ball skill. J. J. Schigas. 170,948, Nov. 24.

Gameboard. L. H. Hayman and A. M. Silverl. 170,922, Nov. 24.

Garden row marker. E. B. Pegram. 170,936, Nov. 24.

Glass, Drinking. J. W. Robbins. 170,944, Nov. 24.

Head covering, Lady's. I. G. Sibley. 170,951, Nov. 24.

Knife sharpener. J. Palma, Jr., and C. A. Leubner. 170,935, Nov. 24.

Lamp, Infrared ray. B. K. Kaveckas. 170,925, Nov. 24

Lazy Susan or similar article. R. L. Gruen. 170,917, Nov. 24.

Magnifier and tweezers, Combined. F. Robitschek. 170,945, Nov. 24.

Medallion. H. Randall. 170,942, Nov. 24.

Microscope illuminator. M. Macaluso, Jr. 170,931, Nov. 24.

Necklace or similar article. M. Chernow. 170,911, Nov. 24.

Ornament, Illuminable Christmas. J. Petry. 170,940, Nov. 24.

Pendant or similar article. A. C. Jensen. 170,924, Nov. 24.

Perfume bottle and holder therefor or similar article, Combined. H. Bell. 170,904, Nov. 24.

Pin. H. M. Osers. 170,934, Nov. 24.

Plaque, Illuminable Christmas. J. Petry. 170,937–9, Nov. 24.

Plate, Compartmented. C. J. Chaplin. 170,910, Nov. 24.

Radio receiver. D. D. Israel, A. C. Germer, and K. E. E. James. 170,923, Nov. 24.

Sandwich steadier. R. C. Collins and W. Saunderson. 170,912, Nov. 24.

Scarf. V. Neumann. 170,933, Nov. 24.

Seat cover, Automobile. O. F. Marston. 170,932, Nov. 24.

Shears. L. Blanchaert. 170,905, Nov. 24.

Shoe, Infant's. G. E. Kettner. 170,926, Nov. 24.

Shoe or similar article. J. Sandler. 170,946, Nov. 24.

Sound producing device or similar article. J. Long. 170,930, Nov. 24.

Spectacle case. J. L. Foss. 170,914, Nov. 24.

Stand, Plant. A. J. Vavoulis. 170,955, Nov. 24.

Stocking. W. M. Langer. 170,928, Nov. 24.

Tag for sheep and other animals, Ear. K. G. and G. N. Dumbrell. 170,913, Nov. 24.

Tractor. E. A. Wagner. 170,956, Nov. 24.

Tumbler or similar article, Glass. V. Hamill. 170,918–21, Nov. 24.

Vaporizer, Medicinal. A. Barkin. 170,903, Nov. 24.

Vehicle, Child's. C. A. Scheppele. 170,947, Nov. 24.

Wheel trim or similar article. C. W. Sinclair. 170,952, Nov. 24.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 24TH DAY OF NOVEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading wheel. S. Goldberg. 2,660,009, Nov. 24.

Adhesive extruder for bookbinding machines. R. E. Fogg. 2,660,148, Nov. 24.

Adjustable chain saw bar. G. H. Rosenboom. 2,660,204, Nov. 24.

Adjustable coupling. O. R. Briney, Jr. 2,660,463, Nov. 24.

Adjustable line jig for laying brick and concrete block walls. F. W. Patzel. 2,659,973, Nov. 24.

Adjustable marking rule. J. W. Dunn. 2,659,980, Nov. 24.

Adjustable rack. A. J. Friedl and W. E. Shipley. 2,660,381, Nov. 24.

Adsorption-desorption process. E. W. S. Nicholson. 2,660,262, Nov. 24.

Air booster steering. H. C. Schindler. 2,660,255, Nov. 24.

Air cleaner. M. H. Jeffrey. 2,660,261, Nov. 24.

Air operated circuit breaker. J. D. Wood. 2,660,635, Nov. 24.

Air pump and accumulator. J. P. Burke. 2,660,334, Nov. 24.

Alkyl silicon compounds. P. W. Shafer and G. H. Wagner. 2,660,597, Nov. 24.

Ambulating water sprinkler. W. C. Rice. 2,660,472, Nov. 24.

Angle of attack sensing device. O. H. Schuck and R. C. Alderson. 2,660,056, Nov. 24.

Animator's stand. H. Lion. 2,660,389, Nov. 24.

Annealing base construction. J. E. Robinson. 2,660,420, Nov. 24.

Antenna, Variable. N. C. Amen. 2,660,675, Nov. 24.

Antifriction mount for the distributor plate of motor vehicle distributors. H. Henrichs. 2,660,630, Nov. 24.

Antiglare visor mounting bracket. L. H. Schultz. 2,660,390, Nov. 24.

Antioxidants. T. H. Newby. 2,660,605–6, Nov. 24.

Apparatus and method for accurately filling containers. P. R. Feehheimer. 2,660,350, Nov. 24.

Apparatus for and method of combining enwrapments. C. W. Vogt. 2,660,098, Nov. 24.

Apparatus for automatically centering moving objects. E. T. Lorig. 2,660,429, Nov. 24.

Apparatus for avoiding moisture condensation on toilet flush tanks. R. W. Toye. 2,659,898, Nov. 24.

Apparatus for catalytic conversion of hydrocarbons. S. R. Bethea. 2,660,520, Nov. 24.

Apparatus for continuous cinematographic projection. V. Serra. 2,660,088, Nov. 24.

Apparatus for conveying and stacking box blanks. J. E. Wilske, F. A. McCormick, and V. G. Politsch. 2,660,432, Nov. 24.

Apparatus for conveying magnetizable sheets. C. H. Watson. 2,660,318, Nov. 24.

Apparatus for coordinating operating wave length and slit size in spectrophotometers. R. W. Foreman and M. M. Fink. 2,660,086, Nov. 24.

Apparatus for cutting of rinsing pipes. M. Ringler. 2,660,240, Nov. 24.

Apparatus for detecting suspended matter in fluids. A. W. Uhl. 2,660,052, Nov. 24.

Apparatus for folding wrappers. R. M. Dunning. 2,660,099, Nov. 24.

Apparatus for frequency division. J. C. Williams. 2,660,668, Nov. 24.

Apparatus for hair dyeing. F. Kaul. 2,660,182, Nov. 24.

Apparatus for intercenting primers and the like. W. B. Swansick. 2,660,085, Nov. 24.

Apparatus for introducing air to burners of reversing type furnaces. J. L. Hartney. 2,660,419, Nov. 24.

Apparatus for loading and unloading cargo vessels. N. E. Dorland. 2,660,319, Nov. 24.

Apparatus for measuring power and standing waves in wave guides. J. E. Hill. 2,660,706, Nov. 24.

Apparatus for opening and emptying bags. R. Trautschold. 2,660,324, Nov. 24.

Apparatus for removing slabs from heating furnaces. H. Demmon and M. E. Houk. 2,660,321, Nov. 24.

Apparatus for removing solids from liquids in settling tanks and the like. R. L. Knowlton. 2,660,557, Nov. 24.

Apparatus for rolling sheet metal. W. R. Macaulay and J. E. Coolidge. 2,660,077, Nov. 24.

Apparatus for securing eye mechanisms in doll heads. P. Rekettye. 2,659,887, Nov. 24.

Apparatus for staking leads to commutators. J. J. Currivan. 2,659,959, Nov. 24.

Apparatus for stretching film. E. V. Dettmer. 2,659,931, Nov. 24.

Apparatus for testing the fastness of dyeings on wetted textiles. W. Thommen. 2,660,055, Nov. 24.

Apparatus for the pneumatic evacuation of materials. R. A. Norbom. 2,660,341, Nov. 24.

Applying sealing spouts for lighter fluid cans. C. S. Allen. 2,660,355, Nov. 24.

Arbor and support for power-driven rotary tools, Combination. H. G. Yetter. 2,660,205, Nov. 24.

Arrangement and construction of gasoline tanks. J. Müller. 2,660,348, Nov. 24.

Arrangement in transductor-controlled rectifier cooperating with storage battery and load. A. Arvidsson. 2,660,702, Nov. 24.

Arrangement of electrodes for dielectric radio-frequency heating of nonconductors, for example, thermoplastic materials. T. von Hanteville. 2,660,660, Nov. 24.

Article carrier means for automobile trunks. A. F. Bernau. 2,660,349, Nov. 24.

Article-handling apparatus. W. L. Ames and F. W. Hennessey. 2,660,287, Nov. 24.

Article handling apparatus. M. O. Hansen. 2,660,288, Nov. 24.

Article isolating and shock absorbing shipping container. H. G. Beck. 2,660,295, Nov. 24.

Article of repose for supporting the body of a person. J. Luckhardt. 2,660,225, Nov. 24.

Articles and their manufacture, Bonded. H. F. West and J. H. Veale. 2,660,535, Nov. 24.

Artificial intraoral veneer and process of producing anatomically colored and contoured restorations utilizing same. N. Ingersoll, Jr. 2,659,970, Nov. 24.

Ascertaining time of explosion, Method and apparatus for. D. M. McFarland. 2,660,716, Nov. 24.

Assemblage for exerting a clamping force. P. H. Richardson. 2,660,264, Nov. 24.

Attachment for end portions of soft fold collars. N. P. St. John. 2,659,891, Nov. 24.

Automatic blending device for liquids. A. Blondel. 2,660,190, Nov. 24.

Automatic control mechanism for cotton harvesters. E. V. Briscoe. 2,660,015, Nov. 24.

Automatic extinguishing and disposing ash tray for automobiles. C. O. Endicott and W. W. Houser. 2,660,180, Nov. 24.

Automatic friction type clutch. R. H. Shaddox. 2,660,280, Nov. 24.

Automatic laundering machine and pump drive therefor. P. E. Geldhof. 2,660,043, Nov. 24.

Automatic level control. C. W. Harrison. 2,660,625, Nov. 24.

Automatic quick disconnect coupling. A. A. Meddock. 2,660,456, Nov. 24.

Automatic reclosing circuit breaker. J. M. Wallace and A. P. Strom. 2,660,636, Nov. 24.

Automatic safety readjustment mechanism for newspaper press fold rollers. L. J. Griner. 2,660,426, Nov. 24.

Automatic telephone system. F. P. Gohorel. 2,660,620, Nov. 24.

Automatic tobacco feeding cigarette machine. M. Rault. 2,660,177, Nov. 24.

Automatic torch ignition system for internal-combustion turbine engines. F. H. Carey. 2,660,233, Nov. 24.

Automobile door structure. A. L. Nelson. 2,660,470, Nov. 24.

Automobile seat structure. A. I. Appleton. 2,660,223, Nov. 24.

Baffle type muffler with a plurality of outlet conduits. R. B. Bourne and J. P. Tyskewicz. 2,660,258, Nov. 24.

Bait clamp. J. H. Hegler, Jr. 2,659,996, Nov. 24

Balanced well pump. W. H. Porter. 2,660,124, Nov. 24.

Ball delivery device for ball game apparatus. L. A. Durant. 2,660,435, Nov. 24.

Ball-point writing instrument. R. W. Randolph. 2,660,152, Nov. 24.

Ball projector. M. J. Binks. 2,660,157, Nov. 24.

Ball type caster. J. Wein. 2,659,926, Nov. 24.

Ball winding machine. P. Rekettye. 2,660,379, Nov. 24.

Band applying mechanism. G. E. Gampp. 2,660,353, Nov. 24.

Band pass filter. V. D. Landon. 2,660,712, Nov. 24.

Bar: *See*—
Adjustable chain saw bar.

Bar for flexible storm windows, Center. F. J. Burns. 2,660,239, Nov. 24.

Barbed wire structure. A. E. Brickman. 2,660,406, Nov. 24.

Beam suspension for vehicles. T. Stigum and G. D. Keerins. 2,660,450, Nov. 24.
Bearing: *See*—
Fluid bearing.
Beet topping machine. H. K. and O. G. North. 2,660,047, Nov. 24.
Belt. J. Horowitz. 2,659,895, Nov. 24.
Berrypicking machine. F. Melbowell. 2,660,021, Nov. 24.
Beverage defoaming device. R. E. Renard. 2,660,352, Nov. 24.
Bicycle wheel brace. J. C. D'Esposito. 2,660,297, Nov. 24.
Binding turning machine as employed in the manufacture of footwear. C. G. Greatholder. 2,659,910, Nov. 24.
Blade for turbines or compressors. A. A. Griffith. 2,660,400, Nov. 24.
Blast furnace operation. H. F. West and J. H. Veale. 2,660,534, Nov. 24.
Blasting cap. A. J. Barocca and F. R. Seavey. 2,660,118, Nov. 24.
Blowing-in banked blast furnaces. W. A. Abbett, Jr., and F. C. Diaz. 2,660,524, Nov. 24.
Boat trailer. W. H. Miller. 2,660,443, Nov. 24.
Boiler control apparatus. W. S. Smoot. 2,660,378, Nov. 24.
Bottle and holder therefor. C. W. Bogan and R. L. Ginesi. 2,659,920, Nov. 24.
Bottle carrying pocket. J. B. McCabe and A. H. Luedicke, Jr. 2,660,290, Nov. 24.
Box: *See*—
Display box.
Box having interlocking end walls, Collapsible. L. G. Trickett, Jr., and C. O. Deem. 2,660,363, Nov. 24.
Bracket: *See*—
Antiglare visor mounting bracket.
Bracket. N. E. Passman. 2,660,391, Nov. 24.
Brakehead wear plate and key wedge. T. J. Sweger and M. S. Johnson. 2,660,267, Nov. 24.
Braking caster. H. B. Middendorf. 2,660,265, Nov. 24.
Branched chain octadecenone and preparation thereof. W. Kimel. 2,660,608, Nov. 24.
Bright gold and gold alloy plating baths. B. D. Ostrow. 2,660,534, Nov. 24.
Brush and comb, Combination. A. Grüring. 2,660,183, Nov. 24.
Buffing wheel. H. E. Larsen. 2,660,010, Nov. 24.
Building panel and construction. W. H. Crowther. 2,659,938, Nov. 24.
Burette with variable capacity. H. Ruf. 2,660,342, Nov. 24.
Burglar alarm safety lock. K. Makishima. 2,660,632, Nov. 24.
Burner: *See*—
Oil burner.
Burner for converting natural gas into gasoline components. W. S. Patterson. 2,660,235, Nov. 24.
Burner for liquid fuels with combustion air under atmospheric pressure for industrial and domestic purposes. M. Nava. 2,660,234, Nov. 24.
Butt drive mechanism for pear peeling machines. W. de Back. 2,660,209, Nov. 24.
Buttonhole attachment for sewing machines. H. H. Russell. 2,660,138, Nov. 24.
Cabinet: *See*—
Selective delivery filing cabinet.
Strainer cabinet.
Cabinet catch. F. Gerson. 2,660,465, Nov. 24.
Calculating punch. G. F. Daly and F. V. Adams. 2,660,373, Nov. 24.
Caliper gauge. F. Jakobi. 2,659,982, Nov. 24.
Cap: *See*—
Blasting cap.
Chimney cap.
Can tapper and liquid dispenser unit. C. W. Dunn. 2,660,338, Nov. 24.
Cap and hanger for cleaning implements. G. G. Greene, Jr. 2,660,392, Nov. 24.
Carbonated beverage dispenser. E. B. Charplat. 2,660,343, Nov. 24.
Carburetor supplementary fuel feed device with auxiliary fuel pump. D. E. Anderson. 2,660,417, Nov. 24.
Carriage controlled totalizer control mechanism. G. K. Schulz. 2,660,369, Nov. 24.
Carton, Partitioned. W. J. Tyrseck. 2,660,361, Nov. 24.
Catalytic alkylbenzene synthesis. M. Erchak, Jr. 2,660,610, Nov. 24.
Catalytic conversion of gaseous reactants. F. D. Hoffert. 2,660,598, Nov. 24.
Catalytic hydrogenation of carbon monoxide. W. Rottig. 2,660,599, Nov. 24.
Centering apparatus for bowling pin holders. J. J. McGinley. 2,660,433, Nov. 24.
Centrifugal machine for the recovery of liquid out of raw vegetable food. N. W. Berglind. 2,660,211, Nov. 24.
Centrifugal pump. E. G. Landberg. 2,660,122, Nov. 24.
Centrifugal pump bearing seal. E. R. Willfey. 2,660,487, Nov. 24.
Centrifugal rinsing device. W. G. Landwier. 2,660,311, Nov. 24.
Cerium-iron-alloy flints, Manufacture of. W. Bungardt. 2,660,301, Nov. 24.
Chain: *See*—
Flat top conveyer chain.
Chair: *See*—
Convertible beach chair.
Knockdown chair.
Change-speed gearbox. A. A. G. Magis. 2,660,070, Nov. 24.
Chimney cap. H. A. Sabin, Jr. 2,660,105, Nov. 24.
Chimney cowl. A. W. Gray. 2,660,106, Nov. 24.
Christmas tree ornament. L. L. Raymond. 2,659,993, Nov. 24.
Circuit: *See*—
Peaked voltage circuit.
Sweep circuit.
Television correcting circuit.
Timing and sequencing circuit.
Circuit breaker. F. L. Gelzheiser and E. J. Walker. 2,660,638, Nov. 24.
Circuit breaker. W. A. Thomas. 2,660,637, Nov. 24.
Circuit breaker. J. Toth. 2,660,643, Nov. 24.
Circuit failure protection device, Pressure compensated. J. V. V. Elsworth. 2,660,481-2, Nov. 24.
Circuit interrupter. H. L. Rawlins. 2,660,647, Nov. 24.
Circuit interrupter. S. Wolf. 2,660,640, Nov. 24.
Circumferential cylinder register mechanism for rotary printing machines. M. Ras. 2,660,115, Nov. 24.
Clamp: *See*—
Bait clamp.
Suspension clamp.
Utility service clamp.
Clamp and bench mount therefor, Hand supportable. F. E. Bellows. 2,660,079, Nov. 24.
Classifier for solid bodies carried in a fluid stream. J. A. Labouygues. 2,660,305, Nov. 24.
Cleaner: *See*—
Air cleaner
Cleaning spark plugs. R. J. Rieckhoff. 2,660,544, Nov. 24.
Clip for contoured hair. F. S. Waggener. 2,660,184, Nov. 24.
Clip for precluding rotation of segments of oil-retaining ring in journals. L. Alex. 2,660,486, Nov. 24.
Closet and wall construction. I. P. Whitehouse and W. W. Krauss. 2,660,269, Nov. 24.
Clutch: *See*—
Automatic friction type Fluid clutch.
clutch.
Clutch and brake for washing machines. W. G. Landwier. 2,660,278, Nov. 24.
Clutch for screw actuators, Slip. L. Ochtman. 2,660,281, Nov. 24.
Coke remover for tar and petroleum stills and the like. C. A. Lewis. 2,659,916, Nov. 24.
Collapsible stacking receptacle. C. C. Averill. 2,660,328, Nov. 24.
Collar stay, Adjustable. F. L. Sharp and C. L. Levtwyler. 2,659,892, Nov. 24.
Collect chuck. M. E. Toelcke. 2,660,441, Nov. 24.
Color television receiving system. F. M. Wood, Jr. 2,660,612, Nov. 24.
Commutator connection for dynamoelectric machines. J. W. Clokey and E. M. Laughner. 2,660,682, Nov. 24.
Commutator with self-wedging retaining rings. W. F. King. 2,660,683, Nov. 24.
Composite multistage turbomachine rotor. E. L. Robinson and C. M. Gardiner. 2,660,399, Nov. 24.
Compressed sponges, Making. H. G. Hammon. 2,659,935, Nov. 24.
Compressible tube valve. J. K. Mair and C. J. McNally. 2,660,395, Nov. 24.
Compressor sealing arrangement. A. H. Ehlinger. 2,660,367, Nov. 24.
Compressor surge inhibitor. H. Klein and E. B. Laskin. 2,660,366, Nov. 24.
Conduit, Reinforced concrete. G. A. Montgomery. 2,660,199, Nov. 24.
Constant factor mechanism. H. J. Chall. 2,660,377, Nov. 24.
Consumer package for fresh fruits or the like. F. A. L. Bloom. 2,660,529, Nov. 24.
Container: *See*—
Article isolating and shock absorbing shipping container.
Container with rip strip tongue folded into lock seam. J. Henchert. 2,660,332, Nov. 24.
Control apparatus for vending machines. E. E. York. 2,660,284, Nov. 24.
Control electrode-anode structure for gas discharge devices. E. O. Johnson. 2,660,685, Nov. 24.
Control for model airplanes. E. E. Turner. 2,659,999, Nov. 24.
Control for pneumatic cable-tool drills. J. H. Meier. 2,660,404, Nov. 24.
Control for spray equipment. C. A. Frese. 2,660,125, Nov. 24.
Control means for liquid dispensing apparatus. H. N. Bliss and O. Wild, Jr. 2,660,335, Nov. 24.
Control system for controlling the temperatures of individual enclosures. T. J. Lehane. 2,660,407, Nov. 24.
Convertible beach chair. M. V. Frisch. 2,660,224, Nov. 24.
Convertible vehicle. W. Wiesner and F. Field. 2,660,442, Nov. 24.

Conveyer apparatus. G. W. Merritt. 2,660,293, Nov. 24.
Conveyer, Trolley. L. T. Daigle. 2,660,291, Nov. 24.
Cooker, Pressure. M. Keller. 2,660,330, Nov. 24.
Cord line chalker. C. Scudder. 2,659,974, Nov. 24.
Cooking apparatus. R. J. Wagner and H. E. Hortman, Jr. 2,660,658, Nov. 24.
Core drilling apparatus. V. J. and L. V. Devine. 2,660,402, Nov. 24.
Corn picker. J. Lenth. 2,660,467, Nov. 24.
Coupling: *See*—
Adjustable coupling.
Automatic quick disconnect coupling.
Coupling clamp with constant spring loading. T. A. Woolsey. 2,659,953-4, Nov. 24.
Coupling pin hitch. W. M. Cade and B. E. Derry. 2,660,444, Nov. 24.
Coupling system for interchangeably connecting the wiring systems of tractors and trailers. A. E. Hunt. 2,660,679, Nov. 24.
Cover: *See*—
Wheel cover.
Crate lifting attachment. A. V. Blatz. 2,660,327, Nov. 24.
Crib, Foldable. L. A. Hagelfeldt. 2,659,903, Nov. 24.
Crib shortening, cover-holding device, and baby anchor. W. McGinnis. 2,659,904, Nov. 24.
Crystal contact device. E. G. James and A. O. E. Lindell. 2,660,696, Nov. 24.
Crystal temperature control means. L. F. Koerner. 2,660,680, Nov. 24.
Crystallization of urea. W. Michelitsch. 2,660,604, Nov. 24.
Cutting machine. B. B. Junkunc. 2,660,241, Nov. 24.
Cutting tool and method of making. F. L. Scott, A. E. Wisler, and H. B. Woods. 2,660,405, Nov. 24.
Deaerating apparatus. G. H. Morehouse. 2,660,259, Nov. 24.
Deep well fishing tool. H. Cook. 2,660,468, Nov. 24.
Depression of sulfide minerals with zinc cyanide ammoniate. C. F. Allen, W. M. Fitzsimmons, and R. B. Booth. 2,660,306, Nov. 24.
Depression of sulfide zinc minerals from concentrates and ores. C. F. Allen, W. M. Fitzsimmons, and R. B. Booth. 2,660,307, Nov. 24.
Derivatization of starch with lactones. R. W. Kerr and W. A. Faucette. 2,660,577, Nov. 24.
Desk, Typist's. M. M. Smith. 2,660,502, Nov. 24.
Desk with rotating drawer. W. W. Bridge. 2,660,504, Nov. 24.
Detachable index arm unit for measuring instruments. H. L. Bowditch. 2,660,147, Nov. 24.
Device for accurately setting calipers. I. Benkoe. 2,659,977, Nov. 24.
Device for alternatingly interrupting the brake fluid pressure in brake lines. M. F. Maloney. 2,660,266, Nov. 24.
Device for comparing values represented by pulses. B. M. J. Leclerc. 2,660,372, Nov. 24.
Device for dispensing liquid preparations through a brush. J. B. McCabe and P. G. Marconi. 2,659,919, Nov. 24.
Device for exchangeable objectives of photographic cameras. H. Naumann. 2,660,527, Nov. 24.
Device for holding eyebrow or gray hair pencils. P. J. Kordish. 2,660,181, Nov. 24.
Device for measuring alternating current impedances. J. A. Field. 2,660,705, Nov. 24.
Device for producing reciprocating or lateral motion. W. C. White and H. W. Lord. 2,660,671, Nov. 24.
Device for supporting and actuating hypodermic syringes. H. Malm. 2,660,169, Nov. 24.
Device for testing hot flow. A. P. Dowling. 2,660,051, Nov. 24.
Dextran of relatively low molecular weight, Production of. H. J. Koepsell, H. M. Tsuchiya, and N. N. Hellman. 2,660,551, Nov. 24.
Diaper, Pinless. B. B. Tittle. 2,660,172, Nov. 24.
Diazotype reflex photoprinting. C. E. Herrick, Jr. 2,660,526, Nov. 24.
Dishwashing machine. L. A. and D. A. James. 2,660,185, Nov. 24.
Disk harrow gang and frame connection. K. P. Ryan. 2,660,014, Nov. 24.
Dispenser: *See*—
Carbonated beverage dispenser.
Dispenser for collapsible tubes. N. M. Koob. 2,660,339, Nov. 24.
Dispensing closure and container. J. W. Starner. 2,660,344, Nov. 24.
Dispensing tip for gas-pressure containers. H. Pyenson. 2,660,132, Nov. 24.
Display box. L. D. Young. 2,660,294, Nov. 24.
Distributor heater. S. A. Wilkie. 2,660,656, Nov. 24.
Dockboard. D. C. Law. 2,659,914, Nov. 24.
Doorframe. F. H. Walterman and J. P. Malmrose. 2,660,272, Nov. 24.
Doorknob and tubular spindle assembly. R. C. Cerf, Jr. 2,660,466, Nov. 24.
Door latch operating mechanism. E. N. Jacobi. 2,660,046, Nov. 24.
Dough slicing apparatus. J. F. and F. A. Anetsberger. 2,660,133, Nov. 24.
Drain assembly. M. H. Chudnow. 2,659,900, Nov. 24.
Drill: *See*—
Expansible drill.
Percussion drift drill.
Drill grinding jig. H. C. Reading. 2,660,008, Nov. 24.
Drinking glass construction. C. D. Newell. 2,660,039, Nov. 24.
Driving mechanism for material conveyers. H. J. and D. A. Raddatz. 2,660,263, Nov. 24.
Drying human serum albumin and other heat sensitive biologically active proteins. J. H. Hink, Jr. 2,659,986, Nov. 24.
Dual control mechanism for valves and the like. V. V. Veenschoten. 2,660,072, Nov. 24.
Dual drive actuator. H. M. Geyer. 2,660,026-9, Nov. 24.
Duplicator, Rotary offset. H. R. Gullixson and H. F. Bruns. 2,660,113, Nov. 24.
Edge fastening for table top coverings. G. H. Norquist. 2,660,499, Nov. 24.
Egg lifter. H. K. Schilling. 2,660,469, Nov. 24.
Eggs having artificial shells. D. Adams. 2,660,530, Nov. 24.
8-hydroxy-4-androstene-3,17-dione. H. C. Murray and D. H. Peterson. 2,660,587, Nov. 24.
Electric arc production of combustible gases. D. G. Butler. 2,660,556, Nov. 24.
Electric switch. W. L. Bush and A. M. Daily. 2,660,634, Nov. 24.
Electric switch. A. M. Daily and M. B. Arisman. 2,660,651, Nov. 24.
Electric switch. F. E. Luebkert. 2,660,648-9, Nov. 24.
Electrical calibration system. A. Miller. 2,660,165, Nov. 24.
Electrical circuit breaker. R. E. Warren. 2,660,642, Nov. 24.
Electrical ground detector. 2,660,717, Nov. 24.
Electrical insulating material. N. F. Arone. 2,660,215, Nov. 24.
Electrical method and apparatus for geophysical prospecting. R. J. Herbold. 2,660,703, Nov. 24.
Electrical switch. J. J. Lucas. 2,660,629, Nov. 24.
Electrical vibrator. H. J. Brown. 2,660,639, Nov. 24.
Electrocardiograph electrode. C. E. Thrasher and F. A. Grosz. 2,660,175, Nov. 24.
Electroluminescent zinc sulfide phosphor. H. C. Froelich. 2,660,566, Nov. 24.
Electromagnetic relay. B. O. Austin. 2,660,641, Nov. 24.
Electromagnetic vibrator apparatus for treating molten metal. D. Von Ludwig. 2,660,414, Nov. 24.
Electron discharge device. E. J. Walsh. 2,660,688, Nov. 24.
Electron discharge device. C. F. West. 2,660,669, Nov. 24.
Electronic color television. L. W. Parker. 2,660,684, Nov. 24.
11 alpha-hydroxy-17 alpha-methyltestosterones and esters thereof. H. C. Murray and D. H. Peterson. 2,660,586, Nov. 24.
Elevon stick control. T. A. Feeney and W. B. Pierce. 2,660,383, Nov. 24.
Elimination of objectionable odors from soap. F. J. Squire and P. D. Stengel. 2,660,589, Nov. 24.
Emergency dynamic braking system. M. D. Brane and A. McLanahan. 2,660,126, Nov. 24.
Engine: *See*—
Expansion engine.
Excavating bucket. J. J. Carlesimo. 2,660,323, Nov. 24.
Exhaust manifold for internal-combustion engines. F. C. Tromel. 2,660,031, Nov. 24.
Exhaust muffler with expansion chamber. G. B. Walker. 2,660,256, Nov. 24.
Expanded cellular plastic flotation body. J. J. Hoffman. 2,660,194, Nov. 24.
Expansible drill. G. D. Hayden. 2,660,075, Nov. 24.
Expansion engine. R. W. Hughes. 2,660,154, Nov. 24.
Extracting lead from its sulfides. C. B. Foster. 2,660,525, Nov. 24.
Extractor: *See*—
High-speed continuous extractor.
Extruding apparatus. O. A. McNamee. 2,659,932, Nov. 24.
Extrusion. H. M. Gersman. 2,660,302, Nov. 24.
Eyeglass attachment. I. E. Bloom. 2,660,092, Nov. 24.
Fabric: *See*—
Weight supporting fabric.
Fabric, method of making same, and its uses. J. E. Lilienfeld. 2,659,956, Nov. 24.
Fabricating welded girth joints. J. C. Turnbull. 2,659,966, Nov. 24.
Fastener: *See*—
Sheet metal snap fastener.
Fastener inserting mechanism. R. H. Bliss. 2,659,886, Nov. 24.
Fastening device. E. Schlueter. 2,659,952, Nov. 24.
Fastening means. L. Newman. 2,660,084, Nov. 24.
Feeder: *See*—
Poultry feeder.
Feeder. G. D. Friedel. 2,660,289, Nov. 24.
Feeding device for sheet material. J. Haller. 2,660,427, Nov. 24.
Fence post driver and digger. J. F. Zeiser. 2,660,035, Nov. 24.
Fiber drafting. O. E. Sandelin. 2,659,936, Nov. 24.
Fiber feeding and weighing mechanism. B. E. O'Connor and R. E. King. 2,660,393, Nov. 24.

Fiber-spinning compositions. G. E. Ham. 2,660,571, Nov. 24.
File for program tapes, Storage. E. S. Wright. 2,660,506, Nov. 24.
Filling device. H. F. Coffey and P. H. Lanham. 2,660,336, Nov. 24.
Filling head for filling machines. P. R. Fechheimer. 2,660,358, Nov. 24.
Filling machine for containers. E. F. Rowekamp. 2,660,356, Nov. 24.
Filling machine valve. W. H. Bulcao. 2,660,359, Nov. 24.
Film indexing. H. T. Olson. 2,660,089, Nov. 24.
Film mount. P. G. Kiehl and W. H. Kolath, Jr. 2,659,992, Nov. 24.
Filter: *See*—
Band pass filter. Nasal filter.
Fluid filter. Oil filter.
Filter. E. Polacco. 2,660,167, Nov. 24.
Filter unit. T. S. Lasky. 2,660,316, Nov. 24.
Filtering apparatus. H. J. Snyder and E. A. Gendron, Jr. 2,660,312, Nov. 24.
Fish lure. B. Hagstrom. 2,659,995, Nov. 24.
Flame detector. J. A. Deubel. 2,660,645, Nov. 24.
Flameproofed article and making same. G. E. Walter, I. Hornstein, and C. A. Sheld. 2,660,542, Nov. 24.
Flameproofing polymers. G. E. Walter, I. Hornstein, and C. A. Sheld. 2,660,543, Nov. 24.
Flat top conveyer chain. W. D. Cheesman. 2,660,292, Nov. 24.
Flexible seam testing device. H. A. Buehner. 2,660,053, Nov. 24.
Flight and bank level indicator. L. B. Ries. 2,659,984, Nov. 24.
Flow measuring device. R. A. Ackley. 2,660,057, Nov. 24.
Flower-plate for lubricant containers and the like. E. P. Sundholm. 2,660,491, Nov. 24.
Flue section for providing balanced draft. E. J. Artis. 2,660,162, Nov. 24.
Fluid bearing. P. Gérard and H. Séranne. 2,660,484, Nov. 24.
Fluid clutch. L. F. Knight. 2,660,279, Nov. 24.
Fluid filter. G. W. Mork, J. E. Marson, and T. G. Paulsen. 2,660,317, Nov. 24.
Fluid heater. L. J. McCarthy. 2,660,519, Nov. 24.
Fluid pressure regulator structure. C. H. Welty and G. L. Hammon. 2,660,187, Nov. 24.
Fluid pump. W. W. Paget. 2,660,365, Nov. 24.
Fluid support. P. L. Jr. Gerard. 2,660,485, Nov. 24.
Fluorescent screen. C. W. Putnam. 2,660,686, Nov. 24.
Fluorescent screen, Producing a. C. W. Putnam. 2,660,539, Nov. 24.
Fluoridic compounds of beryllium of high purity, Producing. C. W. Schwenzfeier, Jr., and C. S. Pomelee. 2,660,515, Nov. 24.
Forced air circulating heater. R. T. Pearce. 2,660,161, Nov. 24.
Forced air flow air-heating furnace. H. S. Murphy. 2,660,160, Nov. 24.
Fork straightening pliers. J. Armstrong. 2,660,078, Nov. 24.
Form for textile material or the like. J. M. Field. 2,660,298, Nov. 24.
Formation of the roll of tobacco in cigarette-making machines. M. Raulr. 2,660,178, Nov. 24.
Forming a particle coating on a metal component of an electric discharge device. R. G. Robertshaw. 2,660,547, Nov. 24.
Forming centering cavities in billet ends. J. W. Kelso. 2,660,545, Nov. 24.
Forward and reverse belt drive for tapping attachments. M. H. Emrick. 2,660,068, Nov. 24.
Fourdrinier wire having reinforced coated marginal portions. H. Johnson. 2,659,958, Nov. 24.
Fractionation of fatty materials. J. T. Dickinson. 2,660,590, Nov. 24.
Frame: *See*—
Implement carrier frame. Twisting frame.
Frame construction for implement draft devices. V. O. Hanswirth. 2,660,445, Nov. 24.
Freewheeling clutch between a compressor turbine and an output turbine. A. T. Bowden, A. Muller, P. Kolb, W. Hryniszak, and O. Zadnick. 2,660,033, Nov. 24.
Frequency division. T. H. Nakken. 2,660,708, Nov. 24.
Front wheel mounting for mowers. W. H. Phelps. 2,660,019, Nov. 24.
Fuel feed control, Electrical. J. W. Miller. 2,660,196, Nov. 24.
Furnace: *See*—
Forced air flow air-heating furnace.
Garment, Disposable insert panty. O. Erteszek. 2,660,173, Nov. 24.
Garment, Foundation. G. L. Diebold. 2,659,889, Nov. 24.
Gas turbine cycle employing secondary fuel as a coolant. H. Rosenthal. 2,660,032, Nov. 24.
Gaseous heat exchange. L. P. Pool. 2,660,038, Nov. 24.
Gasket. H. G. Beck. 2,660,275, Nov. 24.
Gate valve. A. S. Volpin. 2,660,191, Nov. 24.
Gauge: *See*
Caliper gauge. Scribing gauge
Gear: *See*
Progressive change-speed gear.
Generating impulses of large keying ratio, Method and means for. R. Urtel. 2,660,672, Nov. 24.
Generation of carbon monoxide and hydrogen. C. F. Teichmann. 2,660,521, Nov. 24.
Generator: *See*—
Power generator.
Glass, Neutron absorbing. L. M. Melnick, H. W. Safford, K. Sun, and A. Silverman. 2,660,532, Nov. 24.
Glue-jointing and press apparatus and method of jointing the ends of abrasive strips. J. R. Hawkins. 2,660,220, Nov. 24.
Goodyear-welt shoes, Making. A. Kamborian. 2,659,912, Nov. 24.
Grain lifting device. S. Klug. 2,660,020, Nov. 24.
Grating. E. L. Tarof. 2,660,102, Nov. 24.
Gravimeter apparatus. E. W. Frowe. 2,660,062, Nov. 24.
Grinding machine. F. P. Hegeman. 2,660,006, Nov. 24.
Ground anchor. H. B. McKee. 2,660,276, Nov. 24.
Guided suspension means for bicycle steering wheels. A. P. Douglas and L. J. Walters. 2,660,455, Nov. 24.
Gun directing system. D. J. Campbell, S. P. McCabe, Jr., and H. Harris, Jr. 2,660,371, Nov. 24.
Haemacytometer and the like. F. C. McCallum. 2,660,091, Nov. 24.
Hand-guided motor-driven bark removing plow. L. E. Phillips. 2,660,207, Nov. 24.
Handle: *See*—
Telescopic handle
Harmonic analyzer and synthesizer. W. O. Gates. 2,660,700, Nov. 24.
Heading and like machine. A. B. Watt. 2,659,906, Nov. 24.
Heat exchange panel and its manufacture. R. A. Sandberg. 2,660,412, Nov. 24.
Heat exchanger. M. H. Hofmeister. 2,660,410, Nov. 24.
Heat exchanger for continuous treatment of fluent material. J. E. Laschinger. 2,660,408, Nov. 24.
Heat-sealing machine. W. Haas and F. D. Bergstein. 2,660,219, Nov. 24.
Heated roller blind. B. G. A. Särnö. 2,660,659, Nov. 24.
Heater: *See*—
Distributor heater. Forced air circulating heater.
Fluid heater.
Heating oil wells, Means for. J. J. Jakosky. 2,660,249, Nov. 24.
Heel breasting machine. L. Mawbey. 2,659,909, Nov. 24.
High-frequency coupling system. D. W. Blancher. 2,660,710, Nov. 24.
High-frequency variable coupling structure. L. A. G. ter Veen. 2,660,714, Nov. 24.
High input impedance semiconductor amplifier. G. Bergson. 2,660,624, Nov. 24.
High-pressure discharge lamp. J. A. St. Louis and J. M. Pomfrett. 2,660,692, Nov. 24.
High-speed continuous extractor. J. L. White. 2,660,518, Nov. 24.
High-voltage fuse. R. L. Murray, W. H. McCure, and E. W. Garrison, Jr. 2,660,644, Nov. 24.
Hinge mounting for angular adjustment. F. W. Schmidt, W. F. Moore, and A. R. Edberg. 2,660,368, Nov. 24.
Hinged base frame for portable derrick masts. J. P. Selberg. 2,660,268, Nov. 24.
Hinged closure. E. Dolar. 2,660,329, Nov. 24.
Holder: *See*—
Hook and leader holder.
Name or directory card holder.
Holder for gripper shuttle looms, Jaw. N. P. Darash. 2,660,201, Nov. 24.
Hood, Blowtorch. H. H. Sherman and M. A. Silverman. 2,660,231, Nov. 24.
Hook and leader holder. O. L. Guestinger. 2,659,997, Nov. 24.
Hose extending and latching mechanism. W. M. Harks. 2,660,337, Nov. 24.
Hot-water generator and storage system. L. F. and W. E. Whitney and D. F. Comstock. 2,660,163, Nov. 24.
Hot water tank flue baffle. C. H. Morrow. 2,660,198, Nov. 24.
Housed capacitor assembly with interlocked grounding switch. W. H. Cuttino. 2,660,694, Nov. 24.
Hydraulic jaw, Compensating. H. C. Kurtz. 2,660,440, Nov. 24.
Hydrogen chloride gas hardening of metal oxide powder. O. Reitlinger. 2,660,569, Nov. 24.
Hypersensitizing photographic film developer. B. J. Schultz. 2,660,528, Nov. 24.
Identification code on sound records. L. L. Hillar. 2,660,621, Nov. 24.
Immersion type thermocouple temperature measuring device. A. H. Lewis. 2,660,061, Nov. 24.
Implement attachment for loader frames. C. B. Richey. 2,660,322, Nov. 24.
Implement carrier frame. R. C. Johnson, Jr. 2,660,452, Nov. 24.
Impression material. B. E. Taylor. 2,660,570, Nov. 24.
Indexing device for bottle closing machines. L. T. Cookson. 2,660,354, Nov. 24.
Indicating device. E. Bolinet. 2,659,979, Nov. 24.
Indicating disk for golf club heads. E. F. Grossman. 2,660,436, Nov. 24.
Indicator: *See*
Flight and bank level indicator. Position indicator.
Liquid level indicator. Seam depth indicator.
Indicator for visually observing flow of a liquid through a pipe. K. M. Newcum. 2,660,144, Nov. 24.

Industrial truck. E. R. Backofen, E. J. Dunham, and S. R. Skellenger. 2,660,325, Nov. 24.
Insecticide spray. J. W. Birosh. 2,660,251, Nov. 24.
Insert assembly for leaf springs. C. G. Davis. 2,660,425, Nov. 24.
Internal-combustion engine with scavenging air blower. J. Kopf, A. Schnürle, and O. Elwert. 2,660,156, Nov. 24.
Inward banking vehicle with combined banking arm and pendulum axle construction. J. Kolbe. 2,660,254, Nov. 24.
Ion selector. A. O. C. Nier. 2,660,677, Nov. 24.
Isomerization of alkylene oxides. M. O. Robeson and R. A. Springer. 2,660,609, Nov. 24.
Jacket, Golf. J. F. Revolta. 2,659,890, Nov. 24.
Jacquard. J. Ashworth and A. Firth. 2,660,202, Nov. 24
Jig saw. D. D. Beebe. 2,660,206, Nov. 24.
Joint: *See*—
Swivel joint.
Key-set-key-responsive calculating machine. G. W. Hopkins and D. L. Rolph. 2,660,374, Nov. 24.
Knife-adjusting means for rotary shears. J. R. Lane. 2,660,242, Nov. 24.
Knockdown chair. O. A. Reinhold. 2,660,228, Nov. 24.
Ladder, Hospital bed. A. N. Fitzgerald and B. C. Garrabrant. 2,659,902, Nov. 24.
Lading tie anchoring means for application. M. S. Johnson. 2,660,130, Nov. 24.
Lamp: *See*—
High-pressure discharge lamp.
Laundry appliance control panel construction. J. P. Rogers. 2,660,273, Nov. 24.
Lavatory attachment. H. G. Paulus. 2,659,901, Nov. 24.
Leakage control tube mounting for double tube plate heat exchangers. N. Weber. 2,660,411, Nov. 24.
Leather jacket sleeve. S. Slater. 2,659,894, Nov. 24.
Leg and caster mount. H. N. Simpson. 2,659,927, Nov. 24.
Lens blocking device. D. P. Bernheim and C. G. Silverberg. 2,660,011, Nov. 24.
Level-hunting selector. F. Kessler. 2,660,619, Nov. 24.
Level winding device. J. H. Wilson. 2,660,382, Nov. 24.
Lifter: *See*—
Egg lifter.
Lighter. W. F. Wagner. 2,660,042, Nov. 24.
Liquid composition comprising a lower alkoxy silane. H. G. Emblem, C. Shaw, and W. E. Langrish-Smith. 2,660,538, Nov. 24.
Liquid level control. A. F. Hanney. 2,660,193, Nov. 24.
Liquid level indicator. J. B. Vogt. 2,660,058, Nov. 24.
Liquid level measuring apparatus. M. R. Dean and D. R. de Boisblanc. 2,660,059, Nov. 24.
Load bearing pivoted member for furniture mechanism. M. Fox. 2,660,462, Nov. 24.
Lock: *See*—
Burglar alarm safety lock. Tie rod lock.
Lock and key, Permutation. P. D. P. Villalba. 2,660,047, Nov. 24.
Lock for corrugated fiberboard boxes, Corner. K. C. Ferguson. 2,660,364, Nov. 24.
Lock out and recycling device for an apparatus for determining the listening habits of wave signal receiver users. S. A. Scherbatskoy and R. L. Freeman. 2,660,511, Nov. 24.
Locking arrangement for blading of axial-flow turbines and compressors. L. Haworth and J. A. Petrie. 2,660,413, Nov. 24.
Long scale electrical instrument. F. G. Kelly. 2,660,707, Nov. 14.
Low height shortwall mining machine. A. L. Lee. 2,660,418, Nov. 24.
Low voltage electrochemical condenser of high specific gravity. H. André. 2,660,695, Nov. 24.
Lubricant conditioning apparatus. E. M. May. 2,660,309, Nov. 24.
Lubricants. W. N. Axe and W. B. Whitney. 2,660,562, Nov. 24.
Lubricator: *See*—
Railway axle journal lubricator.
Machine for closing cartons. J. Boyce and D. W. Hayes. 2,660,012, Nov. 24.
Machine for detecting and ejecting improperly labeled cans. M. L. Box and R. W. Cason. 2,660,304, Nov. 24.
Machine for forming bundles of signatures. L. I. Kramer. 2,659,907, Nov. 24.
Machine for making prefabricated steel structural members. O. H. Lucy. 2,660,203, Nov. 24.
Machine for operating on metal stock by rollers. E. L. Tinley and H. A. Hallett. 2,660,214, Nov. 24.
Machine for producing extruded units. I. Elliott. 2,660,131, Nov. 24.
Machine for splicing rubber articles. A. B. Clayton and T. O. Hale. 2,660,216, Nov. 24.
Machine for the continuous casting of metal rods. I. Properzi. 2,659,948–9, Nov. 24.
Machine for the manufacture of crumpets and the like. R. J. Hastings. 2,660,109, Nov. 24.
Machine of the household type for cutting, mashing, and whipping fruits, vegetables, and the like. N. W. Bergiind. 2,660,210, Nov. 24.
Magazine for dispensing machines. E. H. Thompson. 2,660,340, Nov. 24.
Magnet-controlled sit-up pup. J. F. Cavanaugh. 2,659,998, Nov. 24.
Magnetic induction accelerator. W. F. Westendorp. 2,660,673, Nov. 24.
Magnetic separator. F. G. Fisher. 2,660,308, Nov. 24.
Magnetic telegraphophone transducer. W. J. Field and R. L. Perkins. 2,660,622, Nov. 24.
Making articles from biaxially oriented thermoplastic sheet material, Method and apparatus for. J. Q. Burgess. 2,659,934, Nov. 24.
Making bags. J. F. Doyle. 2,660,100, Nov. 24.
Manganese activated cadmium lithium silicate phosphor. A. H. McKeag. 2,660,565, Nov. 24.
Manually operated wire stitching machine. W. Kirby. 2,659,885, Nov. 24.
Manufacture of permanent magnets. C. Marquaire. 2,660,522, Nov. 24.
Manufacturing bread sticks. L. M. Bertrand. 2,660,134, Nov. 24.
Manure spreader. C. J. Scranton. 2,660,439, Nov. 24.
Marking machine. J. L. Lutyens. 2,660,116, Nov. 24.
Master or central station controller. E. R. Kilgen. 2,660,628, Nov. 24.
Material loading device. T. J. Skeuse, A. C. Jennings, and W. E. Haught. 2,660,394, Nov. 24.
Means and method for the addition of insoluble comminuted solids to liquids flowing in pipes. J. A. Pickard. 2,660,560, Nov. 24.
Means for applying platforms and turning the toe ends of platform covers. P. W. Sendeben. 2,659,908, Nov. 24.
Means for reducing torsional strain on vehicle axles. A. S. Page. 2,660,451, Nov. 24.
Measurement of films and deposits. H. W. Sigworth and B. A. Fries. 2,660,678, Nov. 24.
Mechanical differential. G. R. Stibitz. 2,660,064, Nov. 24.
Mechanical modulator. R. A. Hampshire, F. W. Iden, and P. L. Hancock. 2,660,709, Nov. 24.
Mechanism for changing rotary motion to oscillating motion. E. C. Williams. 2,660,065, Nov. 24.
Mechanism for numerically grouping booklets and the like. C. J. Sadler. 2,660,101, Nov. 24.
Mercury column thermostats, Making. W. M. Smith, B. F. Freeberg, and A. W. Tharp. 2,660,005, Nov. 24.
Mercury vapor rectifier tube employing magnetic field. J. H. Coleman. 2,660,687, Nov. 24.
Metal vaporizer and vapor coating. W. J. Karash and A. G. Foote. 2,660,540, Nov. 24.
Metal-working apparatus. S. W. Hayes. 2,660,128, Nov. 24.
Meter: *See*—
Parking meter.
Metering and view finding camera with swivel handle grip, Combination. L. M. Culp. 2,660,103, Nov. 24.
Method and apparatus for controlling the liquid seals on steam sterilizers. A. H. Webster. 2,660,512, Nov. 24.
Method and apparatus to supply a beverage to a filling machine and fill containers thereby. F. T. Gricar, Jr., W. J. Sommers, and G. L. N. Meyer. 2,660,360, Nov. 24.
Microwave protective system. H. R. Summerhayes, Jr., and E. D. Cook. 2,660,718, Nov. 24.
Milk bottle thermometer support. D. C. Shelton. 2,660,060, Nov. 24.
Mineral oil containing substituted polyolefins. F. W. Banes and S. B. Lippincott. 2,660,563, Nov. 24.
Mold-forming machine. E. I. Valyi. 2,659,944, Nov. 24.
Mold forming machine. E. I. Valyi. 2,659,945, Nov. 24.
Molding machine. B. Faure. 2,659,946, Nov. 24.
Monoazodyestuff. W. Schleifenbaum. 2,660,576, Nov. 24.
Monofilament thread and making same. F. J. McCarthy. 2,660,546, Nov. 24.
Mounting: *See*—
Railway car axle journal bearing mounting.
Variable pitch screw propeller articulated blade mounting.
Mounting device for illuminated globes. R. R. Dupler. 2,660,661, Nov. 24.
Moving stairway handrail supporting device. S. G. Margles. 2,660,286, Nov. 24.
Multiple valve. R. E. Risley and H. L. Hoke. 2,660,195, Nov. 24.
Multistage centrifugal pump. W. H. Curtis, L. L. Aspelin, and J. C. Carter. 2,660,121, Nov. 24.
Name or directory card holder. D. H. Strayer. 2,659,991, Nov. 24.
Nasal filter. M. A. Coleman. 2,660,166, Nov. 24.
Neutralization of sulphonated organic esters. A. I. Gebhart and J. E. Mitchell. 2,660,588, Nov. 24.
Nickel powder with large surface area, Preparing. N. J. De Lollis. 2,660,523, Nov. 24.
Nonbendable yielding support vehicle splash-guards. J. Russell, J. L. Edmund, and S. A. Felker. 2,660,453, Nov. 24.
Nonspillable vent plug for storage batteries. O. G. Duncan. 2,660,611, Nov. 24.
Nozzle. L. Lee, II. 2,660,474, Nov. 24.
Off-peak electric water heating system. J. K. Ostrander. 2,660,657, Nov. 24.
Oil burner. C. T. Denker and J. R. Moore. 2,660,230, Nov. 24.
Oil filter. T. S. Lasky. 2,660,314–15, Nov. 24.
Oil gauge wiper. J. Klein. 2,659,922, Nov. 24.
Optical objective of the telephoto type. G. H. Cook. 2,660,095, Nov. 24.
Oscillograph. A. M. Grass. 2,660,510, Nov. 24.
Pack feed control mechanism. T. A. Ribich. 2,660,430, Nov. 24.

Package opener. W. J. Cahill. 2,659,967, Nov. 24.
Packaging explosives. T. F. Pauls. 2,660,300, Nov. 24.
Packing member. J. E. Collins. 2,660,459, Nov. 24.
Paint can brush scraper. C. Paxton. 2,660,333, Nov. 24.
Paint tray. V. R. Drum. 2,659,917, Nov. 24.
Paper feed mechanism for recorders. B. G. Blackman and D. O. Nelson. 2,660,380, Nov. 24.
Parking device for vehicles. A. Wullschleger. 2,660,320, Nov. 24.
Parking meter. R. F. Broussard, H. J. Miller, L. D. Sollenberger, and S. L. Christensen. 2,660,283, Nov. 24.
Pattern tool. E. F. Zore. 2,659,983, Nov. 24.
Payroll computer. J. M. Stanford. 2,660,376, Nov. 24.
Peaked voltage circuit. W. H. Elliot. 2,660,670, Nov. 24.
Peanut vine pulling machine. W. E. Priestley. 2,660,013, Nov. 24.
Pendulum compensating, Method of and apparatus for. R. T. Cloud. 2,659,985, Nov. 24.
Percolator, Coffee. T. J. Cappello. 2,660,107, Nov. 24.
Percussive drift drill. O. Phipps. 2,660,483, Nov. 24.
Percussive tool. F. Abt. 2,660,153, Nov. 24.
Perforating machine. K. Nicolay. 2,660,244, Nov. 24.
Phonograph, Automatic. S. D. Harman. 2,660,437, Nov. 24.
Phonograph needle. F. C. Holtz, Jr. 2,660,438, Nov. 24.
Photographic exposure calculator. P. H. Carquillat. 2,660,375, Nov. 24.
Phonographic reproducing machine. R. M. Somers. 2,660,623, Nov. 24.
Pipe: *See*—
Smoking pipe.
Pipe tool. J. F. Van Gundy. 2,659,975, Nov. 24.
Piston and piston ring assembly. F. S. Flick. 2,660,493, Nov. 24.
Piston ring. E. R. Olsen. 2,660,494, Nov. 24.
Pitting structure. L. B. Williams and J. C. Calkins. 2,660,208, Nov. 24.
Pivoted self-allgning valve. D. D. Heagerty. 2,660,396, Nov. 24.
Placing fluent material, Method and apparatus for. M. F. Kemper. 2,660,034, Nov. 24.
Plaster cast cutting machine. M. Merkur. 2,659,969, Nov. 24.
Plate, Memorandum. G. Odlas. 2,660,145, Nov. 24.
Plug. C. D. Jellison. 2,660,197, Nov. 24.
Pneumatic tourniquet. F. I. Saemann. 2,660,174, Nov. 24.
Pocketed ball game apparatus. L. A. Durant. 2,660,434, Nov. 24.
Pollinating cartridge. L. J. Farley. 2,660,002, Nov. 24.
Pollination. L. J. Farley. 2,660,003, Nov. 24.
Polymerization process for polyurethanes utilizing water, a water miscible solvent, and a water immiscible solvent. W. D. Jones and S. B. McFarlane. 2,660,575, Nov. 24.
Polyurethanes, Production of. W. D. Jones and S. B McFarlane. 2,660,574, Nov. 24.
Portable device for scrubbing and rinsing automobile bodies and the like. M. Sears. 2,659,915, Nov. 24.
Portable milling machine. H. E. Morton. 2,660,096, Nov. 24.
Position indicator. B. W. Strömberg. 2,660,719, Nov. 24.
Postage printing device using direct and offset printing W. W. Herrick and A. Burckhardt. 2,660,111, Nov. 24.
Posthole forming machine. F. E. Roland. 2,660,403, Nov. 24.
Poultry feeder. C. C. Jolly. 2,660,149, Nov. 24.
Poultry feeder. G. L. Kalb. 2,660,150, Nov. 24.
Power generator. G. R. Santos. 2,660,030, Nov. 24.
Preparing branched primary sulfate esters. H. K. Wiese. 2,660,602, Nov. 24.
Pressed steel truck wheel. D. W. Sherman. 2,660,477, Nov. 24.
Pressing pleats in fabric materials, Method and apparatus for. M. G. Hutchins. 2,660,345, Nov. 24.
Pressure-and-vacuum filling machine. P. R. Fechheimer. 2,660,357, Nov. 24.
Prestressed concrete structural compression member. G. A. Maney. 2,660,049, Nov. 24.
Prism system for binocular microscopes. E. Leitz, Jr., M. Englemann, and A. Bröhl. 2,660,090, Nov. 24.
Process and apparatus for coating surfaces with liquid compositions containing solid matter in suspension. A. H. Hawes. 2,660,415, Nov. 24.
Process of and electrolyte for refining copper. J. H. Schloen and K. Ekler. 2,660,555, Nov. 24.
Processing wood pulp. H. S. Hill. 2,660,097, Nov. 24.
Producing lubricating oils, Combination. F. H. Blanding. 2,660,552, Nov. 24.
Producing masonry simulating panel. W. A. Lawson. 2,660,217, Nov. 24.
Producing plywood with a paper-faced platen. H. C. Soehner. 2,660,548, Nov. 24.
Producing retainer-welt slipper socks. M. Spack. 2,659,911, Nov. 24.
Product dispensing machine. E. H. Thompson. 2,660,351, Nov. 24.
Progressive change-speed gear. P. C. Patin. 2,660,073, Nov. 24.
Projecting device. M. J. Binks. 2,660,158, Nov. 24.
Projection apparatus, Multiplex picture. S. Domeshek. 2,660,087, Nov. 24.
Projection compass. E. E. Norris. 2,659,972, Nov. 24.
Propulsion means for garden hose. W. D. Egly and C. W. Harris. 2,660,471, Nov. 24.
Protective device. R. Malcom, Jr. 2,659,888, Nov. 24.
Protective system for series capacitors. R. E. Marbury. 2,660,693, Nov. 24.
Protector valve. B. MacDonald. 2,660,189, Nov. 24.
Pump: *See*—
Balanced well pump.
Centrifugal pump.
Fluid pump.
Multistage centrifugal pump.
Vapor separating pump.
Well pump.
Pump assembly. F. E. Smith. 2,660,384, Nov. 24.
Pump fluid flow system, Jet. T. C. Noon and R. J. Anderson. 2,660,232, Nov. 24.
Purification of liquids, Method and apparatus for the. N. S. Prime. 2,660,359, Nov. 24.
Purification of water by ion exchange. W. Juda. 2,660,558, Nov. 24.
Push-out window structure. F. E. Donathan. 2,660,274, Nov. 24.
Pyrrolinones, Production of. R. N. Lacey. 2,660,583, Nov. 24.
Quartz-to-metal seals, Making. E. B. Power and E. H. Nelson. 2,659,964, Nov. 24.
Quaternary nicotinic acid amide derivatives and production thereof. H. Suter, F. Stocker, and H. Zutter. 2,660,582, Nov. 24.
Quick sealing automatic sealing gate valve. A. S. Volpin. 2,660,397, Nov. 24.
Rack: *See*—
Adjustable rack.
Radiant heat exchange and acoustical structure for buildings. H. R. Pittenger, Jr., and J. D. Verschoor. 2,660,409, Nov. 24.
Radio echo ranging apparatus. R. M. Page. 2,660,721, Nov. 24.
Radio scanning system. G Ley and C. H. Jones. 2,660,722, Nov. 24.
Railway axle journal lubricator. J. J. Hennessy. 2,660,488–9, Nov. 24.
Railway car axle journal bearing mounting. H. M. Jones. 2,660,490, Nov. 24.
Razor, Vibratory. A. H. Crisp. 2,659,998, Nov. 24.
Receptacle: *See*—
Collapsible stacking receptacle.
Receptacle. L. A. Finney. 2,660,347, Nov. 24.
Reciprocating carriage drive. E. Kolland. 2,660,066, Nov. 24.
Recording apparatus. H. L. Rusch. 2,660,509, Nov. 24.
Rectal spray depurator bulb with siphon. C. H. W. Kahl. 2,660,170, Nov. 24.
Recumbent shower bath. K. P. Willis. 2,659,899, Nov. 24.
Reducing the density of aerogels and similar materials. W. M. Davis. 2,660,564, Nov. 24.
Reduction of quinone compounds. I. Von. 2,660,580, Nov. 24.
Reel: *See*—
Thread advancing reel.
Reel mower. R. D. Clemson. 2,660,018, Nov. 24.
Refractories and their preparation, Unfired. H. F. West and J. H. Veale. 2,660,536, Nov. 24.
Refractory and its manufacture. H. F. West and J. H. Veale. 2,660,533, Nov. 24.
Refractory and its manufacture, Bonded. H. F. West and J. H. Veale. 2,660,537, Nov. 24.
Refrigerator cabinet structure. F. R. Eck. 2,660,505, Nov. 24.
Refrigerator construction. L. S. Cooper. 2,660,037, Nov. 24.
Refrigerator gasket. H. G. Beck. 2,659,940–1, Nov. 24.
Refrigerator having door operated valve means. L. O. Moore. 2,660,036, Nov. 24.
Regulator. H. C. Otis and J. C. Luccous. 2,660,246, Nov. 24.
Remote control for power units. R. L. Worrell, H. J. Lehker, and F. H. Vogelsang. 2,660,277, Nov. 24.
Removal of nitrogen from mixtures of combustible gases. F. A. Rohrman. 2,660,514, Nov. 24.
Removal of oxygenated organic compounds from hydrocarbon mixtures thereof. N. J. Bowman. 2,660,600, Nov. 24.
Removing foreign matter from drill holes, Means for. L. L. Gage and C. L. Nelson. 2,660,250, Nov. 24.
Repeater printer for strip stock. T. Finizie and J. J. Connolly. 2,660,114, Nov. 24.
Repeating alarm clock. R. Gary. 2,660,024, Nov. 24.
Resinification of aromatic hydrocarbons. C. F. Feasley. 2,660,572, Nov. 24.
Resistor and method of manufacture. L. H. Berkelhamer. 2,660,653, Nov. 24.
Retractable hose-supporting means for lubrication lifts. K. E. Hammer. 2,659,937, Nov. 24.
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Ring: *See*—
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Roll support. R. M. Dunning. 2,660,296, Nov. 24.
Roller catch. L. Rosenblum. 2,660,464, Nov. 24.
Roller wedge lock nut. G. S. Allen. 2,660,212, Nov. 24.
Rotary brush for suction cleaners. R. C. Osborn. 2,659,921, Nov. 24.
Rotary work holding table. J. H. Wilson. 2,660,074, Nov. 24.
Saddle valve. E. J. Hunter. 2,660,192, Nov. 24.
Safety chuck key with ejector means. T. J. Dossie. 2,660,081, Nov. 24.
Safety seat for vehicles. L. A. Woodsworth. 2,660,222, Nov. 24.
Sample taking device. P. C. Sawers. 2,660,063. Nov. 24.
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Scribing gauge. J. R. Beckham. 2,659,981, Nov. 24.
Seam depth indicator. W. C. Harmon and I. G. Orellana. 2,660,704, Nov. 24.
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Secrecy transmission system. E. J. Duckett and G. A. Klotzbaugh. 2,660,666, Nov. 24.
Sectionally supported furnace wall. L. H. Hosbein and L. Elliman. 2,660,050, Nov. 24.
Sediment removal apparatus. H. W. Hapman. 2,660,310, Nov. 24.
Selective delivery filing cabinet. E Bertello. 2,660,503. Nov. 24
Selective flocculation of colloidal phosphate ore in the presence of clay. J. F. Haseman. 2,660,303, Nov. 24.
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Self-tuning resonant cavity. M. Garbuny. 2,660,711, Nov. 24.
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17-alpha-hydroxy-4-pregnene-3,6,20-trione and process. H C Murray and E H Peterson. 2,660,585, Nov. 24.
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Sewing device. M. Maw. 2,660,346, Nov. 24
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Shingle. H. Abraham. 2,660,135–6, Nov. 24.
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Shower head, Self-cleaning. G. E. Hansen. 2,660,473, Nov. 24.
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Side break disconnecting switch. H. R. Harrison. 2,660,631, Nov. 24.
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Signal generation apparatus. C. L. Ellis and R. W. Elsner. 2,660,615, Nov. 24.
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Table leg and table top retainer, Combination. C. P. Molla. 2,660,501, Nov. 24.
Table leg pivot latch mechanism. G. H. Norquist. 2,660,498, Nov. 24.
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Tear strip guide. W. H. Inman. 2,660,331, Nov. 24.
Teleprinting device. K. Hájek. 2,660,617, Nov. 24.
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Thread tension arrangement for knitting machines. P. Schmidt. 2,660,041, Nov. 24.
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Tool for assembling and disassembling electrical connectors. J. C. Bailey. 2,659,965, Nov. 24.
Toolholder. P. Doerschn. 2,659,962, Nov. 24.
Toolholder. O. C. Severson. 2,659,963, Nov. 24
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Toy with traveling figurette. W. R. Smith and G. R. Monaco. 2,660,001, Nov. 24.
Tractor hitch. A. G. Hupp. 2,660,271, Nov. 24.
Tractor safety control means. L. Glass and B. G. Purtle. 2,660,715, Nov. 24.
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Transmission control system. M. P. and A. Winther, and A. S. Gill, Jr. 2,660,071, Nov. 24.
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Trim molding fastening means and method. C. D. West. 2,659,950, Nov. 24.
Truck damping device. C. W. Wulff. 2,660,129, Nov. 24.
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Turbine bucket. T. N. Hull, Jr. 2,660,401, Nov. 24.
Turning and boring machine. C. E. Dilts. 2,659,961, Nov. 24.
Twisting frame. H. Bachofen. 2,660,023, Nov. 24.
2-hydroxyethylhydrazine, Making. G. Gever and C. J. O'Keefe. 2,660,607, Nov. 24.
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Ultrasonic thickness measuring device. F. E. Pringle, Jr. 2,660,054, Nov. 24.
Undergarment, Combination. J. H. Hindman. 2,659,893, Nov. 24.
Unit heater with draft hood. G. E. Hughes. 2,660,159, Nov. 24.
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Utility service clamp. W. S. Corey. 2,660,200, Nov. 24.
V belt cutting machine. E. J. Lomazzo. 2,660,243, Nov. 24.
Vacuum cleaner nozzle with removable brush attachment. A. A. Forsberg. 2,659,924, Nov. 24.
Vacuum floor tool. D. R. Wood. 2,659,925, Nov. 24.
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Valve for flow lines, Automatic tank. J. A. McCartney. 2,660,188, Nov 24.
Valve sealing element. N. Bashark. 2,660,398, Nov. 24.
Vapor recompression system. W. H. Farnsworth. 2,660,236, Nov. 24.
Vapor separating pump. M. L. Edwards. 2,660,120, Nov 24.
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Variable speed transmission. D. S. Horne and J. W. MacDonald. 2,660,069, Nov. 24.
Variable voltage drive. A. R. J. Helot. 2,660,699, Nov. 24.
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Vehicle mounted take-out plow. J. C. Rutherford. 2,660,104, Nov. 24.
Vending machine. A. R. Gross. 2,660,282, Nov. 24.
Venetian blind tape fastener, cord anchor, pulley support, and cover therefor, Combination. R. H. Wright and A. Zay. 2,660,238, Nov. 24.
Vented hopper chute for railway cars or the like. G. C. Smith. 2,659,897, Nov. 24.
Vertical stabilizer for vehicle wheels. S. D. Ormsby. 2,660 475, Nov. 24.
Vertical window shutter. F. W. and E. O. Bopp, and E. F. Taylor. 2,660,237, Nov. 24
Vial. F. S. Dickinson, Jr. 2,660,171, Nov. 24.
Vibration and shock isolator. G. R. Munro. 2,660,386, Nov. 24
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Vibration device. R. L. Glover. 2,660,067, Nov. 24.
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Washing machine. W. Bretter. 2,660,045, Nov. 24
Washing machine with direct motor drive. E. C. Williams. 2,660,044, Nov. 24.
Waste carton crusher. W. R. Boutwell. 2,660,110, Nov. 24
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Wave guide attenuator. W. Altar. 2,660,713, Nov. 24
Wax composition and producing wax. W. T. Knox, Jr. 2,660,553, Nov. 24.
Weed destroying device. L. D. Stoner. 2,659,918, Nov. 24.
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Wheel. E. R. Jacobi. 2,660,476, Nov. 24, Nov. 24.
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Wheel structure. G. A. Lyon. 2,660,478, Nov. 24.
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Windshield wiper blade. E. C. Horton. 2,659,923, Nov. 24.
Wire bail and handgrip for containers, Combined. H. A. Eggerss. 2,659,928, Nov. 24.
Work support. C. A. Maunder. 2,660,117, Nov. 24.
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CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 24, 1953

NOTE.—First number = class, second number = subclass, third number = patent number

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CLASSIFICATION OF DESIGNS

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D86—10: Des. 170,945

U. S. GOVERNMENT PRINTING OFFICE: 0——1953

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,634,628. Power Transmission. Patented Apr. 14, 1953. Transmission, particularly adaptable for tractors, automobiles, and other power machinery, includes an arrangement of gear trains and rotatable frames with clutch arrangements between various elements of the transmission and frames whereby shifting in the forward speed ranges is accomplished without disconnecting the engine from the driven shaft. The arrangements are such that there is never any unmeshing of gears when shifting from one speed to another. The transmission permits smooth shifting from one speed to another, since there is an immediate transfer from one gear ratio to another without interruption of power from the engine to the driven shaft. Shifting in the forward speed ranges and into reverse and neutral is controlled by manipulating a manual lever. (Owner) Donald L. Mount, Memphis, Mo. Groups 35—21—66; 38—31. Reg. No. 52,094.

The following three patents are offered for sale or licensing on reasonable terms by Michael J. Quillinan, 87–10 37th Ave., Queens, Long Island, New York, N. Y.

Pat. 2,597,523. Slide Rule. Patented May 20, 1952. Slide rule has an internally graduated cylindrical scale of transparent material in which a cylindrical slidable scale reciprocates. A thin-walled split indexing cylinder of transparent material reciprocates between the stationary and sliding scales. The stationary scale consists of a series of segments braced together by cylindrical frames at the ends. Automatic adjusting and compensating means are incorporated in the frames to hold the segments together within the frames and permit uniform radial displacement of the segments under changing atmospheric conditions so that the slidable scale and indexing cylinder may be freely reciprocated. Groups 39—79; 40. Reg. No. 52,095.

Pat. 2,643,823. Slide Rule. Patented June 30, 1953. Slide rule consists of a stationary scale member and a sliding scale member reciprocating along a longitudinal axis. The sliding scale member consists of a cylindrical rod hating longitudinal grooves uniformly spaced about the periphery thereof. The stationary scale member consists of a series of segments matingly contained within the grooves so that the outer surfaces of the segments combine with the exposed surfaces of the rod to present a generally cylindrical surface along the longitudinal length of the rule. Frame members at the ends of the segments include automatic adjusting and compensating means to yieldingly maintain the segments within the grooves and permit uniform radial displacement of the segments under changing atmospheric conditions so that the scale members may be freely reciprocated. Modified forms of automatic adjusting and compensating means are utilized. Groups 35—79; 40. Reg. No. 52,096.

Pat. 2,643,790. Bung Construction. Patented June 30, 1953. Bung construction, which may be used in containers carrying chemicals and petroleum products, consists of a container wall and an annular flange. The lower end of the flange above a laterally extending flat octagonal base portion is outwardly expanded to form an internal annular flaring recess in which a complementary shaped open flaring throat of the container wall is received to anchor the flange to the container. The base portion is countersunk in the container wall to prevent rotation of the flange. A plate for compressing a gasket seated on an inwardly extending annular lip of the throat is rotatably secured to the bottom of a plug threaded in the neck portion of the flange. The gasket is confined between an upwardly projecting collar on the inner free edge of the lip and the downwardly projecting peripheral edge of the plate so compression of the gasket is effected solely in a direction parallel to the axis of the bung. A cap seal having an annular curl and a tear strip with a tab is secured to a notched annular curl at the upper edge of the neck portion. Group 33—96. Reg. No. 52,097.

Pat. 2,617,245. Time System. Patented Nov. 11, 1952. Time indicating system for transmitting time signals from a remote point, such as a radio broadcasting station, onto the face of a clock is particularly effective for navigation. The system comprises a series of constant frequency electrical impulse generators at a master clock supplying alternating current impulses to a secondary clock. The secondary clock comprises a synchronous motor-driven disc having time-indicating marks rotating in separate paths along a time scale, and gaseous discharge electric lamp devices energized by the impulses for individually illuminating the marks, the rates of the impulses being so related to the rate of rotation of the disc as to cause the marks to appear to move at their prescribed time-indicating rates. (Owner) Ervin G. Johnson, 5402 Ygnacio Ave., Oakland 1, Calif. Groups 34—61; 36—19—61. Reg. No. 52,098.

United States Government Owned Patents

The following 21 U. S. Letters Patent owned by the United States Atomic Energy Commission have been made available for licensing by the Commission. Licenses will be granted to applicants on a non-exclusive, royalty-free basis. Applicants for licenses should apply to the Chief, Patent Branch, Office of the General Counsel, U. S. Atomic Energy Commission, Washington 25, D. C., identifying the subject matter by patent number and title.

Pat. 2,206,634. Process for the Production of Radioactive Substances. Patented July 2, 1940. The patent relates to production of isotopes, including transuranic elements by reaction of neutrons. The process employs means for generating neutrons having a high average energy, slowing down and scattering the neutrons by projecting them through a medium of an element of a class including hydrogen, helium, beryllium, carbon, silicon, and lead, then passing the neutrons into a mass of material containing an element capable of forming a radioactive isotope by neutron capture including radioactive isotopes capable of emitting beta rays. Group 36—19. Reg. No. 52,099.

Pat. 2,619,601. Radioactivity Survey Apparatus. Patented Nov. 25, 1952. The invention relates to improvements in radioactivity survey apparatus. The apparatus is suited for measuring and indicating the relative radioactivity of an object in the presence of background radiation. The invention finds particular application to a system for indicating the relative radioactive contamination of a person or subject after exposure to radioactive materials. Group 36—13. Reg. No. 52,100.

Pat. 2,647,998. Method and Apparatus for Determining Frequency. Patented Aug. 4, 1953. The present invention pertains to a method and apparatus for determining frequency of a frequency modulated signal. The device comprises an electronic frequency sensitive apparatus which develops an output pulse of voltage each time the signal voltage passes through a predetermined frequency interval. Group 36—19. Reg. No. 52,101.

Pat. 2,649,571. Bridge for Resistance Measurement. Patented Aug. 18, 1953. The patent relates to an improvement in a method and means for measuring electrical impedances, and is particularly well adapted for the measurement of resistances of high orders of magnitude and to an improved method for making such measurements. The specific circuit utilized herein is of the ratio-arm bridge type. Group 36—13. Reg. No. 52,102.

Pat. 2,651,613. Fluorine Cell. Patented Sept. 8, 1953. This patent covers an electrolytic unit for the manufacture of fluorine, and more particularly to a high temperature carbon anode cell for producing fluorine by the electrolysis of fused alkali metal hydrogen fluorides. Group 28—89. Reg. No. 52,103.

Pat. 2,651,723. Mass Spectrometer Beam Regulator. Patented Sept. 8, 1953. The invention pertains to a mass spectrometer beam regulator which is capable of maintaining a constant current to a mass spectrometer beam collector, where there is a large difference of potential between the collector and the mass spectrometer beam accelerating electrode. The apparatus comprises a radio frequency oscillator, means for modulating the oscillator as a function of the collected beam current, and means controlled by the output of the oscillator for regulating the accelerating voltage applied to the beam. Group 36—19. Reg. No. 52,104.

Pat. 2,651,726. Ionization Chamber Circuit. Patented Sept. 8, 1953. This invention relates to an improved direct coupled D. C. amplifier for measuring minute currents and is particularly adapted and designed to give stable operation in measuring very small currents such as those developed in an ionization chamber and employing a circuit having for the electrometer tube a pentode type acorn tube. Group 36—19. Reg. No. 52,105.

Pat. 2,651,751. Apparatus for Measuring Resistance. Patented Sept. 8, 1953. The invention covers apparatus for the measurement of resistance of electrolyte materials requiring the observance of special precautions during the measuring operations. One example of usage of the invention is in the measuring of the variations in resistance of human blood in the study of blood coagulation. The apparatus comprises a resistor connected in series with an electrolyte whose resistance is to be measured, a constant voltage source connected across the serially connected electrolyte and resistor, said resistor having a resistance of 100–1500 times the resistance of the electrolyte, whereby the current through the electrolyte is maintained constant, and voltage-measuring means connected across the electrolyte to indicate the resistance thereof. Group 39—15. Reg. No. 52,106.

Pat. 2,651,940. Apparatus for Measuring Liquid Level. Patented Sept. 15, 1953. The invention relates to a simple, reliable, and accurate apparatus employing no movable parts for measuring, indicating and/or controlling the liquid level of a body of liquid disposed in an inaccessible location. According to the principles of the invention, the resonant circuit is partially immersed in the liquid, the level of which is to be measured, so that the liquid itself forms an electrical component of the circuit. A high frequency signal of known frequency is generated and applied to a resonant circuit, and a discriminator circuit is connected thereto so as to produce an output signal which corresponds in magnitude to the difference between an applied high frequency signal and the mean resonant frequency of the resonant circuit. Group 36—13. Reg. No. 52,107.

Pat. 2,652,188. Automatic Tank Pump Down. Patented Sept. 15, 1953. This patent pertains to a system for automatically controlling the sequence of operations of a series of pumps for creating a high vacuum. The invention provides an electric circuit control for automatically associating mechanical and diffusion pumps in a predetermined sequence to evacuate a tank or reservoir to high vacuum. Groups 35—61; 36—19. Reg. No. 52,108.

Pat. 2,652,497. Temperature Measurement. Patented Sept. 15, 1953. The invention relates to a method and apparatus for measuring and indicating very high temperatures under conditions where thermocouples and optical pyrometers may be of only limited effectiveness. The apparatus is used for measuring temperature in a field of neutron radiation and comprises a permeable envelope containing a gas characterized by its property of forming a radioactive gas upon capture of a neutron, means provided for collecting the radioactive gas which diffuses through the envelope, and means provided for measuring the rate of diffusion including a radiation monitor for the gas. Groups 36—13; 39—11. Reg. No. 52,109.

Pat. 2,652,510. Gas Discharge Device. Patented Sept. 15, 1953. The patent relates to cold cathode gas filled electron discharge devices, particularly adapted for voltage regulator operation. The device comprises a hermetically sealed envelope containing an ionizable gas, an anode, and cathode, said cathode having an effective area no greater than that of the glow which the tube must support at maximum rated current when the effective area of the cathode is restricted by covering areas of the cathode with a ceramic insulating material. Group 36—19. Reg. No. 52,110.

Pat. 2,652,778. Electromagnetic Centrifugal Pump. Patented Sept. 22, 1953. The patent relates to electromagnetic centrifugal pumps for electrically conductive fluids. The pump comprises a partitionless chamber having side walls composed of insulating material and having an enlarged peripheral portion with side walls composed of conducting material and with an outlet suitably disposed therein, an inlet centrally disposed in the chamber with side walls composed of conducting material, a direct potential source between the peripheral portion and the inlet extending radially within the chamber, and means for creating a magnetic field perpendicular to the chamber. Group 35—61. Reg. No. 52,111.

Pat. 2,653,076. Preparation of Carrier-Free Radioactive Phosphorus Values. Patented Sept. 22, 1953. The invention covers a method of preparing a carrier-free radioactive phosphorus composition from neutron irradiated sulfur. The radioactive phosphorus is obtained in nitric acid solution by mixing the molten irradiated sulfur with hot concentrated nitric acid, subsequently cooling to solidify the sulfur, and then separating the solution from the solid. The phosphorus may be removed from the solution by carrying on an insoluble metal hydroxide such as iron or lanthanum, the hydroxide being formed by addition of the desired metal salt and basifying with ammonium hydroxide. The metal hydroxide precipitate carrying phosphorus after removal from the solution may be dissolved in hydrochloric acid in the case of iron and the ferric chloride extracted by treatment with isopropyl ether leaving the radioactive phosphorus in the aqueous medium. Group 28—89. Reg. No. 52,112.

Pat. 2,653,494. Method of Forging Metals. Patented Sept. 29, 1953. The invention relates to a method of forming beryllium into various intricate shapes, and the unit used for carrying out the process. The method comprises submitting a composite unit consisting of a beryllium mass, a layer of an inert refractory oxide therearound, and a metal jacket enclosing the layer, to a forging operation within a range of temperature from about 700° C. to less than the melting temperature of the minimum melting eutectic of the beryllium and the metal jacket. Group 34—91. Reg. No. 52,113.

Pat. 2,654,840. Pulse Generator. Patented Oct. 6, 1953. This patent relates to an electronic generator of pulses having a substantially instantaneous rise time and a hyperbolic decay time. Briefly, the invention comprises a sawtooth pulse generator of the gas relaxation type. The sawtooth pulses are inverted in the usual manner, and the resulting positive sawtooth pulse is impressed on the grid of a thermionic tube adjusted to operate on the hyperbolic part of its characteristic. The hyperbolic output pulses present on the anode of the thermionic tube are impressed on a cathode follower so that the critically biased thermionic tube is decoupled from the load and the pulses of desired shape are available from a low impedance source. Group 36—19. Reg. No. 52,114.

Pat. 2,654,845. Vapor Detector. Patented Oct. 6, 1953. The patent covers a portable device for detecting toxic concentrations of mercury vapor in the atmosphere. The present invention provides a sensitive detecting unit, a faster resolving bridge and associated electric circuit, and a circuit for an ultraviolet lamp which includes an automatic restart system. The latter feature is extremely important in that the detector may be left unattended without fear that a momentary line failure will render the device inoperable. Group 36—13. Reg. No. 52,115.

Pat. 2,654,851. Beam Deflector. Patented Oct. 6, 1953. The patent relates to a beam deflector for particle accelerators of the cyclotron type wherein ions traveling in circular orbits are repeatedly accelerated, in consequence of which such orbits increase in radii, and thereafter, ions in a preselected orbit are withdrawn from the accelerator. The apparatus comprises a plurality of curved and spaced conductive bars disposed about an outer path of travel of the ionized particles and having connected thereto a high voltage pulsing source of extremely short duration. Group 36—19. Reg. No. 52,116.

Pat. 2,655,107. Electromagnetic Fluid Pump. Patented Oct. 13, 1953. The invention relates to electromagnetic fluid pumps in which an electrically conducting fluid is impelled along a channel by the force which results from the reaction between an electric current passing through the fluid and an impressed magnetic field. The device comprises a fluid duct, means for traversing the duct with a magnetic field, means for impressing an electrical circuit across the length of the fluid in the magnetized duct between a first point traversed by the magnetic field and a second point on the fluid duct remote from the magnetic field. Group 35—61. Reg. No. 52,117.

Pat. 2,656,476. Survey Instrument. Patented Oct. 20, 1953. The patent covers radiation detection and survey instrument, and, more particularly, an ionizing chamber which is adapted for detecting low energy beta particles and secondary electrons, and which is especially well adapted for use with a pulse type detecting system. Group 36—13. Reg. No. 52,118.

Pat. 2,656,527. Signal Deviation Warning System. Patented Oct. 20, 1953. The patent pertains to a sensitive detection or protective system capable of giving an alarm or warning upon the entrance or intrusion of any body into a particular area of the zone protected by the system. The system employs an electromagnetic field of such directional characteristics and extent as to encompass the particular area to be protected to detect movement within an area; or, the field may be positioned to act as a barrier across any given opening such as a gate or a doorway or the like. Group 36—62. Reg. No. 52,119.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 24, 1953

[VOL. 676. No. 4]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5. As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 633,229. U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y. Filed July 29, 1952.

RESCLAIM

For Compounded Rubber.
Claims use since June 23, 1952.

Ser. No. 635,944. Warrior Asphalt Corporation, Holt, Ala. Filed Sept. 29, 1952.



The head shown on the drawing is not the portrait of any living person.
For Asphalt.
Claims use since Oct. 1, 1951.

CLASS 2

RECEPTACLES

Ser. No. 607,326. General Container Corporation, Cleveland, Ohio. Filed Dec. 6, 1950.

KEG-PAK

The word "Pak" is disclaimed apart from the mark as shown on the drawing.
For Foldable Shipping Boxes Including Cardboard and Corrugated Cardboard Boxes.
Claims use since April 1950.

Ser. No. 622,005. Birmingham Paper Company, Birmingham, Ala. Filed Dec. 3, 1951.



Applicant claims ownership of Registration No. 353,542.
For Boxes Made of Cardboard and/or Paper as Follows: Jewelry Boxes, Favor Boxes, Candy Boxes, Paper Boxes, Shipping Boxes, Knockdown Boxes, Cake Boxes, Garment Boxes, Display Boxes, Gift Boxes, and Folding Boxes; Cardboard Egg Cartons; Merchandise Envelopes; Paper and Cardboard Food Boxes; Paper Cups and Paper Tubes for Packing Merchandise; School Bags of Paper and/or Cardboard; and Paper Tooth Brush Cartons.
Claims use since 1950.

Ser. No. 628,416. Mc-H Company, St. Louis, Mo. Filed Apr. 21, 1952.

FLEXI-BIN

The term "Bin" is disclaimed apart from the mark as shown in the drawing.
For Storage and Display Boxes Used for Containing and Displaying Greeting Cards and Cards Onto Which Small Items of Merchandise Are Mounted.
Claims use since Apr. 8, 1952.

Ser. No. 646,502. Sutherland Paper Company, Kalamazoo, Mich. Filed May 5, 1953.

RODEO

For Precut Panels of Paper Board for Use as Bases in Packaging Food Products.
Claims use since on or about August 1948.

Ser. No. 649,483. Container Corporation of America, Chicago, Ill. Filed June 29, 1953.

KAY-D-KAN

For Collapsible Paperboard Cans.
Claims use since on or about Dec. 18, 1930.

Ser. No. 649,575. Paul Flato Sales Corporation, New York, N. Y. Filed June 30, 1953.

BOTAY

For Unfilled Containers—Namely, Compacts for Both Loose and Caked Powder, Rouge Boxes, Pill Boxes, Lipstick Cases, and Vanity Cases of Semi-Precious Metals, Leather, Plastic Materials, and Combinations Thereof.
Claims use since June 9, 1953.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 645,513. St. Thomas Inc., Gloversville, N. Y. Filed Apr. 17, 1953. (Sec. 2f.)

Passfold

Applicant claims ownership of Registration No. 427,621.
For Billfolds.
Claims use since Dec. 1, 1945.

Ser. No. 647,062. William L. Blassenham, Richmond, Va. Filed May 15, 1953.

TEEK—A—RAP

For Travel Cage for Birds.
Claims use since Feb. 1, 1953.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 620,131. Agri-Indus Mfg. Co., Columbus, Ohio. Filed Oct. 18, 1951.

COCOB

For Ground Corn Cob Meal for Use as a Cleaning and Polishing Preparation Having Grease Absorbent Properties, and as a Polisher, Burnisher, and Mild Abrasive.
Claims use since Nov. 30, 1950.

Ser. No. 641,471. Simoniz Company, Chicago, Ill. Filed Jan. 28, 1953.

IVANITE

Applicant claims ownership of Registrations Nos. 365,365 and 365,366.
For Paste Wax Used as a Preservative and Polish for Painted, Lacquered, and Similar Surfaces, and More Especially for Automobile Body Surfaces.
Claims use since July 14, 1938.

CLASS 5

ADHESIVES

Ser. No. 643,494. Larsen Products Corporation, Bethesda, Md. Filed Mar. 11, 1953.

WELD-CRETE

The word "Weld" is disclaimed apart from the mark.
For Adhesive Preparation for Bonding Two or More Surfaces Together.
Claims use since Feb. 16, 1953.

Ser. No. 646,128. The Gummed Products Company, Troy, Ohio. Filed Apr. 29, 1953.

TRO-GLASS

Applicant disclaims the word "Glass" apart from the mark as shown in the drawings.
For Moisture Sensitive Adhesive Tapes Particularly for Use in the Manufacture of Corrugated Boxes Such as for Securing the Corners of Said Boxes.
Claims use since Apr. 7, 1953.

Ser. No. 646,378. General Systems Service, Inc., New York, N. Y. Filed May 4, 1953.

CELFIX

For Pressure Sensitive Adhesive Tape.
Claims use since Apr. 14, 1953.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 639,949. Mock Seed Company, Pittsburgh, Pa. Filed Dec. 23, 1952.

CHLORO-CLAD

For Chemical Treatment of Grass Seed.
Claims use since Sept. 16, 1952.

Ser. No. 640,106. Crossett Chemical Company, Crossett, Ark. Filed Dec. 29, 1952.

CROSSETT

L S D

EMULSIFIER

The words "Crossett" and "Emulsifier" are disclaimed apart from the mark as shown, without waiving any of applicant's common-law rights in connection therewith.
For Emulsifier Consisting of Dried Soap Used as Additive in Drilling Muds.
Claims use since June 21, 1952.

Ser. No. 640,783. The R. J. Brown Company, St. Louis, Mo. Filed Jan. 15, 1953.

STAY

For Anti-Freeze.
Claims use since June 12, 1952.

Ser. No. 641,810. Strohmeyer & Arpe Company, New York, N. Y. Filed Feb. 5, 1953.

SPERMATINE

Applicant claims ownership of Registration No. 91,430.
For Vegetable and Animal Waxes.
Claims use since Jan. 6, 1953.

Ser. No. 646,067. Glass Tint Corporation, doing business under the business name and style of Spray-A-Tint, Chicago, Ill. Filed Apr. 28, 1953.



The drawing is lined for the colors red, silver, green, and blue.
For Liquid Glass Tint in Containers Adapted for Spraying.
Claims use since Jan. 2, 1953.

Ser. No. 646,101. Allied Chemical & Dye Corporation, New York, N. Y. Filed Apr. 29, 1953.

NADIC

For Organic Chemical Intermediates for the Manufacture of Other Chemical Products.
Claims use since Feb. 21, 1953.

Ser. No. 646,980. Henri Bendel, Inc., New York, N. Y. Filed May 14, 1953.

plair

For Liquid Air Freshener.
Claims use since Apr. 20, 1953.

Ser. No. 647,138. Ansbacher-Siegle Corporation, Rosebank, N. Y. Filed May 18, 1953.

ANSIBASE

For Ingredients for Dyestuffs and Dyestuffs Both Dry and in Solution.
Claims use since Apr. 10, 1953.

Ser. No. 647,139. Ansbacher-Siegle Corporation, Rosebank, N. Y. Filed May 18, 1953.

ANSIGEN

For Ingredients for Dyestuffs and Dyestuffs Both Dry and in Solution.
Claims use since Apr. 30, 1953.

Ser. No. 647,286. The Fuller Brush Company, Hartford, Conn. Filed May 19, 1953.

fullsan

For General Purpose Liquid Disinfectant.
Claims use since on or about Oct. 27, 1952.

Ser. No. 647,289. The Fuller Brush Company, Hartford, Conn. Filed May 19, 1953.

fulmist

For Air Deodorant.
Claims use since on or about Apr. 30, 1952.

Ser. No. 647,307. Moore & Munger, New York, N. Y. Filed May 19, 1953.

"MAMFIX"

For Beater Additive or Size Used in the Manufacture of Coated Paper.
Claims use since Mar. 23, 1953.

Ser. No. 647,308. Moore & Munger, New York, N. Y. Filed May 19, 1953.

"MAMAD"

For Beater Additive or Size Used in the Manufacture of Coated Paper.
Claims use since Mar. 23, 1953.

CLASS 7

CORDAGE

Ser. No. 646,675. K. Kinzler, New York, N. Y. Filed May 8, 1953.

ROBIN HOOD



For Rope, Twine, and Cord.
Claims use since Nov. 1, 1952.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 612,140. Rogers Imports, Inc., New York, N. Y. Filed Apr. 2, 1951.

Shamrock

For Smoking Pipes and Cigar and Cigarette Holders.
Claims use since Jan. 1, 1938.

CLASS 10

FERTILIZERS

Ser. No. 638,230. Western Mines, Inc., Pueblo, Colo. Filed Nov. 17, 1952.

Magnite



The drawing is lined to designate red letters on a green background.
For Soil Conditioners and Soil Fertilizers.
Claims use since on or about Sept. 25, 1952.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 627,619. Berry Asphalt Company, Chicago, Ill., and Magnolia, Ark. Filed Apr. 5, 1952.

PERMACOTE

For Chemically Treated Asphalt Embodying an Anti-Stripping Agent for Surfacing Roads, Filling Cracks, Joints, Etc.
Claims use since Feb. 28, 1943.

Ser. No. 631,383. Supradur Corporation of New York, New York, N. Y. Filed June 18, 1952.

Supradur

For Asbestos-Cement Roofing and Siding Shingles.
Claims use since December 1948.

Ser. No. 634,269. Florence M. Ross, Havertown, Pa. Filed Aug. 21, 1952.

LITHRIFT

For Cementitious Material for Treating and Mending Walls.
Claims use since June 5, 1952.

Ser. No. 636,305. Ben Polikoff, doing business as Polymold Plastics Company, Chicago, Ill. Filed Oct. 7, 1952.

polymold

For Plastic Tile.
Claims use since September 1952.

Ser. No. 636,763. The Babcock Company, Kasota, Minn. Filed Oct. 17, 1952. (Sec. 2f.)

KASOTA STONE

For Quarried Building Material Known as Oneonta Dolomite Sold in the Form of Rough Quarried Blocks and as Facing Blocks, Trim, and Veneer.
Claims use since 1880.

Ser. No. 637,031. The Athens Flooring Company, Athens, Ohio. Filed Oct. 23, 1952.

MALT-A-MATIC

For Window and Removable Sash Sold as a Complete Unit.
Claims use since Jan. 11, 1952.

Ser. No. 643,298. Dahlstrom Metallic Door Company, Jamestown, N. Y. Filed Mar. 9, 1953. (Sec. 2f.)

Conduo-Base

For Baseboard, Moulding and Trim of the Type Providing Enclosure and Concealment of Utility Transmission Lines.
Claims use since 1945; and since Dec. 12, 1951, in its present style of lettering.

Ser. No. 643,461. E. L. Bruce Company, Memphis, Tenn. Filed Mar. 11, 1953.

Ranch Plank

"Plank" is disclaimed apart from the mark as shown in the drawing.
For Flooring.
Claims use since Jan. 8, 1949.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 617,655. The Eastern Venetian Blind Company, trading as Eastern Machine Products Co., Baltimore, Md. Filed Aug. 14, 1951.

DECORAY

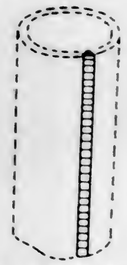
For Window Cornice Hardware—Namely, Center Support Bracket and Shelf Angle.
Claims use since December 1949.

Ser. No. 623,414. Hammond Iron Works, Warren, Pa. Filed Jan. 10, 1952.

CURVASEAL

For Auxiliary Fitting for a Liquid Storage Tank in the Nature of a Metal Supporting Plate for a Diaphragm Seal Thereof.
Claims use since Sept. 7, 1950.

Ser. No. 633,657. Carlon Products Corporation, Cleveland, Ohio. Filed Aug. 9, 1952.



The drawing is lined for blue. Applicant claims ownership of Registration No. 559,532.
For Conduits Made of Polymeric Material, Such as, Polyethylene, Cellulose Acetate, Cellulose Acetate Butyrate, Co-Polymerized Vinyls, Polystyrene, and Co-Polymers Thereof.
Claims use since Jan. 28, 1952.

Ser. No. 641,221. St. Pierre Chain Corporation, Worcester, Mass. Filed Jan. 23, 1953.

DUBL-SQUARE

For Tire Chains for Passenger Vehicles, Trucks, and Tractors.
Claims use since September 1950.

Ser. No. 647,556. The Stanley Works, New Britain, Conn. Filed May 22, 1953.

Ranch Craft

For Hardware—Namely, Hinges, Knobs, Pulls, Latches, and Ring Pulls or Door Knockers.
Claims use since Dec. 12, 1952.

Ser. No. 647,629. Kaiser Steel Corporation, Oakland, Calif. Filed May 25, 1953. (Sec. 2f.)

KAISER

Applicant claims ownership of Registrations Nos. 415,716, 432,138, and others.
For Continuous Weld Standard Steel Pipe and Electric Weld Pipe.
Claims use since Feb. 21, 1948.

Ser. No. 647,896. Universal Fastener Company, Detroit, Mich. Filed May 28, 1953.

UFCO

For Slide Fasteners.
Claims use since Apr. 27, 1953.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 635,544. Metals & Controls Corporation, Attleboro, Mass. Filed Sept. 20, 1952.

TOP-LAY

For Laminated Metals in Sheet and Strip Form.
Claims use since on or before July 30, 1952.

Ser. No. 640,273. Hoeganaes Sponge Iron Corporation, New York, N. Y. Filed Jan. 2, 1953.

HOEGANAES

For Iron Powder and Sponge Iron.
Claims use since Oct. 6, 1952.

Ser. No. 649,745. The H. A. Wilson Company, Union, N. J. Filed July 2, 1953.

RAYFLEX

For Thermostatic Bimetals.
Claims use since 1950.

Ser. No. 649,746. The H. A. Wilson Company, Union, N. J. Filed July 2, 1953.

AQUAFLEX

For Thermostatic Bimetals.
Claims use since 1952

Ser. No. 649,747. The H. A. Wilson Company, Union, N. J. Filed July 2, 1953.

DURAFLEX

For Thermostatic Bimetals.
Claims use since 1952.

CLASS 15

OILS AND GREASES

Ser. No. 648,132. R. J. Oil & Refining Company, Inc., Terre Haute, Ind. Filed June 2, 1953.



For Gasoline.
Claims use since Apr. 15, 1953.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 605,641. De Soto Paint & Varnish Co., Memphis, Tenn. Filed Oct. 31, 1950. (Sec. 2f as to the surname "De Soto.")



The drawing is lined for blue. Applicant claims ownership of Registration No. 209,407.
For Paint Enamels.
Claims use since January 1928.

Ser. No. 634,115. Elva F. Ramseier, doing business under the assumed name of Al Ramseier, Corvallis, Oreg. Filed Aug. 18, 1952.

Al's - Spray - All

The words "Spray-All" are disclaimed apart from the mark.
For Celluloid Type Finish Coatings for Wood, Leather, and Metal Surfaces.
Claims use since Apr. 30, 1952.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 643,559. Jack Schwartz, Chicago, Ill. Filed Mar. 12, 1953.



The representation of a pipe, apart from the mark as shown, is disclaimed.
For Pipe Smoking Tobacco.
Claims use since Oct. 15, 1952.

Ser. No. 644,971. Garcia & Vega, Inc., New York, N. Y. Filed Apr. 9, 1953.



The portrait of the girl is fanciful.
For Cigars.
Claims use since 1902.

Ser. No. 644,976. Garcia & Vega, Inc., New York, N. Y. Filed Apr. 9, 1953.



For Cigars.
Claims use since 1930.

Ser. No. 647,429. Larus & Brother Company, Richmond, Va. Filed May 21, 1953.



DOMINO

Applicant claims ownership of Registrations Nos. 305,237 and 305,239.
For Cigarettes.
Claims use since November 1943, as shown; and since 1885, as to the word "Domino."

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 585,392. Pg. Laboratory, San Francisco, Calif. Filed Sept. 27, 1949.

PANGAMETIN

For Pharmaceutical Preparation for Professional Use in the Treatment of Allergies.
Claims use since Sept. 20, 1947.

Ser. No. 588,136. Albert B. Hirschman, doing business as Gastro-Pulvis Company, San Pedro, Calif.; Carl C. Katleman, executor of said Albert B. Hirschman, deceased, assignor to Maude Hirschman, Palm Village, Calif. Filed Nov. 21, 1949. (Sec. 2f.)



Applicant claims ownership of Registration No. 152,119.
For Antacid Powder.
Claims use since June 25, 1921.

Ser. No. 603,703. Southwestern Drug Corporation, doing business as Red Arrow Laboratories, Waco, Tex. Filed Sept. 18, 1950.

PENLIN

For Liniment for Topical Application.
Claims use since June 9, 1950.

Ser. No. 625,307. The Wander Company, Chicago, Ill. Filed Feb. 20, 1952.

SUPPOSITABS

For Medicinal Suppository in Tablet Form for the Treatment of Trichomonas Vaginitis, Monilia, and Certain Nonspecific Bacterial Infections.
Claims use since Jan. 23, 1952.

Ser. No. 625,308. The Wander Company, Chicago, Ill. Filed Feb. 20, 1952.

VAGISOL

For Medicinal Tablet for the Treatment of Trichomonas Vaginitis, Monilia, and Certain Non-Specific Bacterial Infections.
Claims use since February 1951.

Ser. No. 631,172. Nature Food Centres, Inc., doing business as Hayward Products Co., Cambridge, Mass. Filed June 13, 1952.

Chlor-O-Tabs

For Chlorophyll Tablets.
Claims use since May 23, 1951.

Ser. No. 634,983. Lepetit, S. P. A., Milan, Italy. Filed Sept. 8, 1952.

STREPTOTIBINA

Priority is claimed under Sec. 44(d). Italian application filed Mar. 25, 1952; Registration No. 108,213, dated July 6, 1952.
For Antibiotic, Antitubercular Preparations.

Ser. No. 647,588. Borun Bros., doing business under the trade name and style of Norobob Laboratory, Los Angeles, Calif. Filed May 25, 1953.

NOROBOB

For Food Supplement Consisting Principally of Vitamins and Minerals.
Claims use since Feb. 15, 1952.

Ser. No. 647,589. Borun Bros., doing business under the trade name and style of Allen's Research Laboratory, Los Angeles, Calif. Filed May 25, 1953.

HABALEN

For Vitamin B Complex.
Claims use since Oct. 9, 1951.

Ser. No. 647,590. Borun Bros., doing business under the trade name and style of Salahist Laboratories, Los Angeles, Calif. Filed May 25, 1953.

salahist

For Anti-Histamine Cough Syrup and Anti-Histamine Capsules.
Claims use since Oct. 31, 1951.

Ser. No. 647,704. McNeil Laboratories, Incorporated, Philadelphia, Pa. Filed May 26, 1953.

CLISTIN

For Antihistamine Preparations.
Claims use since Jan. 26, 1953.

Ser. No. 647,783. Lelcy's, Inc., Steubenville, Ohio. Filed May 27, 1953.

SPASBAR

For Sedative Anti-Spasmodic Preparation in Elixir Form and Containing Phenobarbital, Hyoscyamine Sulfate, Atropine Sulfate, Scopolamine Hydro-Bromide, and Alcohol.
Claims use since on or about Aug. 15, 1952.

Ser. No. 647,873. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed May 28, 1953.

NARONE

The drawing is lined for red.
For Medical Preparation—Namely, a Brand of Dipyrone for the Relief of Pain.
Claims use since May 14, 1953.

Ser. No. 647,874. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed May 28, 1953.

VENIBAR

The drawing is lined for red.
For Medical Preparation—Namely, Tablets of Veratrum Viride, Phenobarbital, and Sodium Nitrite for Relief of Arterial Hypertension.
Claims use since May 14, 1953.

Ser. No. 647,905. Buffington's, Incorporated, Worcester, Mass. Filed May 29, 1953.

SYLAPAR

For Preparation Containing Analgesic and Antipyretic Drug for the Treatment of Rheumatism and Arthritis.
Claims use since Apr. 1, 1952.

Ser. No. 647,906. Buffington's, Incorporated, Worcester, Mass. Filed May 29, 1953.

TRANSED

For Preparation Containing a Sympathomimetic Agent, a Sedative, and Vitamins for the Treatment of Obesity and Mental and Emotional Distress and Depression.
Claims use since May 1, 1953.

Ser. No. 647,953. Dr. Salsbury's Laboratories, Charles City, Iowa. Filed May 29, 1953.

Tinostat

For Preparation for the Treatment of Poultry Diseases, Especially for the Treatment of Hexamitiasis and Coccidiosis in Turkeys.
Claims use since on or about May 18, 1953.

Ser. No. 647,984. Barlow-Manley Laboratories, Incorporated, Cedar Rapids, Iowa. Filed June 1, 1953.

Racet

For Chemical Compound in the Form of a White Crystalline Powder Used as a Ganglionic Blocking Agent in the Treatment of Hypertension.
Claims use since July 15, 1952.

CLASS 19

VEHICLES

Ser. No. 637,572. The Custom Coach Company, Baltimore, Md. Filed Nov. 4, 1952.

SILVER TOP

For Aluminum Awnings for House Trailers.
Claims use since July 1948.

Ser. No. 639,299. ABC Coach Co., Pinconning, Mich. Filed Dec. 11, 1952.

ABC

For Transportable Trailer Apparatus in the Form of Trailer Coaches and Parts Thereof.
Claims use since Oct. 4, 1949.

Ser. No. 639,894. Overland Coach Company, Inc., Chicago, Ill. Filed Dec. 22, 1952.

Twin Liner

For House Trailers.
Claims use since Nov. 4, 1952.

Ser. No. 642,409. Gyro Skid-Control Company, Inc., Beverly Hills, Calif. Filed Feb. 18, 1953.

GYRO

For Vehicle Antiskid Devices of the Type Having a Tubular Member Adapted To Be Connected to the Underside of a Vehicle Chassis Frame and Having a Laterally Movable Weight Therein as Well as Springs Centering Said Weight in the Tubular Member.
Claims use since Dec. 1, 1951.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 630,638. Vinyl Plastics, Inc., Sheboygan, Wis. Filed June 2, 1952.



The stippling is to represent shading only. The black border is to indicate a solid dark background.
For Flexible Plastic Tiles for Covering Floors, Walls, Counter Tops, and Desk and Table Tops.
Claims use since May 6, 1952.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 604,146. Deena Products Co., Chicago, Ill. Filed Sept. 28, 1950.

Deenaglas

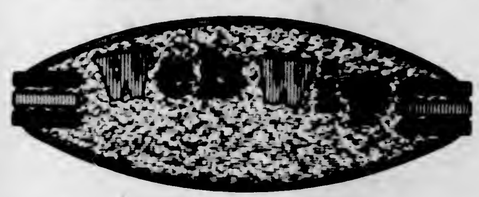
Applicant disclaims the notation "Glas" apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 509,925.
For Lampshades.
Claims use since Aug. 1, 1950.

Ser. No. 621,345. Vapor Chemical Co., Rives Junction, Mich. Filed Nov. 16, 1951.

VAPO-SWAT

For Electric Insecticide Vaporizer.
Claims use since on or about Aug. 15, 1951.

Ser. No. 621,740. Marvin Webster, doing business as a sole proprietorship known as Webster Manufacturing Co., San Francisco, Calif. Filed Nov. 27, 1951.



The word "Wip" is disclaimed apart from the mark as shown. The drawing is lined for the colors red, black, and yellow.
For Antennas.
Claims use since Sept. 6, 1951.

Ser. No. 624,265. George K. Culbertson, doing business under the name and style of George K. Culbertson Company, Minneapolis, Minn. Filed Jan. 30, 1952.

Fidelitone

For Electric Phonograph Record Players and Sound Recorders.
Claims use since July 15, 1939.

Ser. No. 628,621. Electronic Computer Corporation, New York, N. Y., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware. Filed Apr. 24, 1952.

ELECTRONIC
ELECOM
COMPUTER

No claim is made to the words "Electronic Computer" apart from the mark as shown.
For Parts for Electronic Apparatus—Namely, Pulse Transformers, Magnetic Recording-Reproducing Heads, Direct Current Amplifiers, Germanium Diode Crystal Clusters, and Electrical Delay Lines.
Claims use since on or about Oct. 3, 1951.

Ser. No. 628,687. General Cable Corporation, New York, N. Y. Filed Apr. 25, 1952.

ENTERPRISE

For Electrical Wires and Cables.
Claims use since Apr. 16, 1952.

Ser. No. 630,143. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed May 23, 1952.

SCOTCHLOK

For Cone Shaped Springs for Twisting Onto Electrical Wires To Connect the Same.
Claims use since April 1952.

Ser. No. 630,750. Automatic Manufacturing Corporation, Newark, N. J. Filed June 5, 1952.

J-TRAN

Applicant claims ownership of Registration No. 509,336.
For Coil and Condenser Assemblies Used in Electrical Circuits.
Claims use since on or about Apr. 18, 1951.

Ser. No. 633,239. Alfred G. Rouse, doing business under the assumed business name of Rouse Mfg. Co., Portland, Oreg. Filed July 14, 1952.

HOUR SAVER

For Reflecting Liners for Electric Burners.
Claims use since Nov. 21, 1951.

Ser. No. 634,951. Sola Electric Co., Chicago, Ill. Filed Sept. 6, 1952.

Dynatran

For Transformers or Ballasts for Supplying Energization to Gaseous Discharge Devices Such as Fluorescent Lamps.
Claims use since on or about Aug. 20, 1952.

Ser. No. 635,504. Wincharger Corporation, Sioux City, Iowa. Filed Sept. 19, 1952.

WINCO

Applicant claims ownership of Registrations Nos. 397,887 and 541,377.
For Engine-Driven Power Apparatus and Parts Thereof, Particularly Engine-Driven Electric Current Generator Apparatus and Parts Thereof.
Claims use since November 1951.

Ser. No. 635,545. Metals & Controls Corporation, Attleboro, Mass. Filed Sept. 20, 1952.

TOP-LAY

For Electrical Contacts.
Claims use since on or before July 30, 1952.

Ser. No. 635,761. General Precision Laboratory Incorporated, Pleasantville, N. Y. Filed Sept. 25, 1952.

The words "Precision Laboratory Incorporated" are disclaimed apart from the mark as shown.
For Electrical Generators of Ultrasonic Waves, Television Cameras, Television Camera Control Units, Synchronizing Pulse Generators, Television Monitors, Television Switching Units, Television Receivers, Amplifiers, Power Supplies, Video Recording Monitors for Converting Television Signals Into Light Images Suitable for Recording as Motion Picture Images, Television Chains for Converting Motion Picture Images to Television Signals, and Parts Thereof.
Claims use since June 21, 1951.

Ser. No. 635,959. Alonzo A. Fretwell, doing business as Beam-O-Life, Spartanburg, S. C. Filed Sept. 30, 1952.

BEAM-O-LIFE

The term "Beam" is disclaimed apart from the mark as shown without waiving any of applicant's common law rights.
For Lamp-Like Devices for Casting Spots of Light on the Food of Young Fowls and Designed To Operate From Both Battery and Line Current.
Claims use since May 24, 1951.

Ser. No. 636,253. Raytheon Manufacturing Company, Newton, Mass. Filed Oct. 6, 1952.

RECTIRINGER

Applicant claims ownership of Registration No. 295,888.
For Apparatus Adapted To Receive Alternating Electric Current, and To Deliver Both Rectified Unidirectional Electric Current and Alternating Electric Current of a Desired Frequency, and Parts and Components Thereof and Accessories Therefor.
Claims use since on or about Oct. 1, 1950.

Ser. No. 636,732. Picker X-Ray Corporation Waite Manufacturing Division, Inc., Cleveland, Ohio. Filed Oct. 16, 1952.

Millistat

For Milliamperage Stabilizers for X-Ray Tubes.
Claims use since on or about Sept. 1, 1952.

Ser. No. 637,919. Federal Electric Products Company, Newark, N. J. Filed Nov. 12, 1952.

FLEXUNIT

For Electric Panel Boards.
Claims use since Sept. 1, 1949.

Ser. No. 638,207. McColpin-Christie Corp., Los Angeles, Calif. Filed Nov. 17, 1952.

STAVOLT

For Constant Voltage Electrical Rectifiers To Supply Power for Direct Current Equipment and for Charging Storage Batteries.
Claims use since Nov. 4, 1952.

Ser. No. 639,210. Century Product Works, Inc., New York, N. Y. Filed Dec. 9, 1952.

CENTURY CRISP MASTER

The word "Crisp" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 426,464 and 443,359.
For Electrically Heated Deep Fat Fryers.
Claims use since July 17, 1952.

Ser. No. 639,211. Century Product Works, Inc., New York, N. Y. Filed Dec. 9, 1952.

CENTURY CRISP-O-MATIC

The word "Crisp" is disclaimed apart from the mark as shown.
For Electrically Heated Deep Fat Fryers.
Claims use since July 17, 1952.

Ser. No. 639,788. Sparcatron Limited, Somerset and Bath, Somerset, England. Filed Dec. 19, 1952.

SPARCATRON

Applicant claims ownership of British Registration No. 708,116, dated June 16, 1952.
For Machines for the Working of Electrically Conductive Materials by Electrical Disintegration.

Ser. No. 640,101. Cast Fittings Corporation, Brooklyn, N. Y. Filed Dec. 29, 1952.

Cafco

For Electrical Conduit Fittings—Namely, Couplings, Bushings, Unions, T's, L's, Y's, and U's.
Claims use since Aug. 11, 1952.

Ser. No. 641,594. Amperex Electronic Corporation, Hicksville, N. Y. Filed Feb. 2, 1953.

AMPEREX

Applicant claims ownership of Registrations Nos. 440,295, 440,296, and others.
For X-Ray Tubes.
Claims use since Jan. 23, 1950.

Ser. No. 643,006. Tomore Electric Corporation, Rochester, N. Y. Filed Mar. 2, 1953.

SILICOHM

For Electrical Resistors.
Claims use since Oct. 1, 1949.

Ser. No. 647,840. Essex Wire Corporation, Detroit, Mich. Filed May 28, 1953.

PARAFLEX

Applicant claims ownership of Registrations Nos. 523,026, 524,126, and others.
For Insulated Electric Wires, and Insulated Electric Cables.
Claims use since on or about July 1, 1933.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 637,344. Winchester & Woods, Inc., Baltimore, Md. Filed Oct. 29, 1952.

WinWood

For Combination Toy Watch and Trinket Box.
Claims use since Oct. 17, 1952.

Ser. No. 640,028. Deeks, Inc., Salt Lake City, Utah. Filed Dec. 5, 1952.



Applicant claims ownership of Registration No. 399,358.
For Inflatable Rubber Decoys.
Claims use since May 15, 1940.

Ser. No. 645,201. Sunset Line & Twine Co., Petaluma, Calif. Filed Apr. 13, 1953.

FLEXON

For Fishing Lines.
Claims use since Aug. 14, 1951.

Ser. No. 649,517. Lamiglas Company, Kent, Wash. Filed June 29, 1953.

Glascutta

For Fishing Rods.
Claims use since Mar. 1, 1952.

Ser. No. 649,518. Lamiglas Company, Kent, Wash. Filed June 29, 1953.

Lamiglas

For Fishing Rods.
Claims use since Sept. 15, 1951.

Ser. No. 649,519. Lamiglas Company, Kent, Wash. Filed June 29, 1953.

Spincutta

For Fishing Rods.
Claims use since Apr. 10, 1952.

Ser. No. 652,724. James Heddon's Sons, Dowagiac, Mich. Filed Sept. 3, 1953.

PAL

Applicant claims ownership of Registration No. 428,563.
For Fishing Reels.
Claims use since Feb. 14, 1933.

Ser. No. 652,744. The Tryne Company, Sayville, N. Y. Filed Sept. 3, 1953.

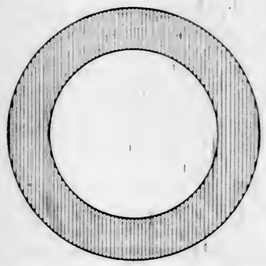
"HiQ" (how's yours?)

For Puzzle Game Consisting of a Board With Orifices Therein and Movable Pieces Fitting Into Said Orifices.
Claims use since Aug. 3, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 630,665. Cherry-Burrell Corporation, Chicago, Ill. Filed June 3, 1952.



The drawing is lined for red.
For Milk, Food, and Industrial Processing Equipment—Namely, Homogenizers; Centrifugal and Sanitary Pumps; Machines for Filling and Capping Milk Bottles and Like Receptacles; Bottle Washing Machines; Can Washing and Rinsing Machines; Alkali Feeders for Use With Can Washing Machines; Churns; Roller, Rotating, and Continuous Conveyors for Receptacles, Receptacle Cases, Cans, and the Like; Feeders for Incorporating Fruits, Nuts, Confections, and the Like in Ice Cream at the Time of Manufacture Thereof; Butter Cutting and Printing Machines; Mechanically Operated Processing Tanks and Vats; Continuous Butter-Making Systems and Components Thereof, Comprising Agitators, Separators, Heat Exchangers Sold as Part of Said System, Processors, and Control Units; Machines for Kneading and Extruding Butter; and Parts of the Foregoing Equipment.
Claims use since on or about Sept. 14, 1948.

Ser. No. 637,019. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 22, 1952. (Sec. 2f.)

Westinghouse

Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.
For Mechanical Vacuum Pumps; Aircraft Engines; Gear Reduction Driving Units and Steam Turbines for Ship Propulsion Equipment; Steam and Gas Turbines; Auxiliary Apparatus for Condensers, Consisting of Air-Ejectors, Condensate-Pumps, Circulating Pumps, and Air Pumps; Steam Engines; Gas-Engines; Reduction Gears; Gear Units for Marine, Locomotive and Railway Propulsion; Pneumatic Conveyors; Marine Bearings, Such as Stern Tube Bearings and Pintle Bearings, Gears, Pulleys, and Bearings Constructed of Fibrous Material With a Heat-Hardened Binder; Hydraulic Servo-Motors and Parts Therefor; Vacuum Cleaners; Compressors; Spray Water Mechanical Air Washers; Reel Drive Gears and Winding and Rewinding Machines.
Claims use since 1886.

Ser. No. 645,099. Bill Products, Inc., San Francisco, Calif. Filed Apr. 13, 1953.

LONG FINGER

For Hand Operated Retractable Tongs.
Claims use since Jan. 15, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 608,501. Golde Manufacturing Company, Chicago, Ill. Filed Jan. 8, 1951.

Index

For Photographic Apparatus and Accessories—To Wit, Automatic Photographic Slide Changers Alone and in Combination With Projectors.
Claims use since Mar. 1, 1950.

Ser. No. 618,383. Carl Neithold, Frankfurt am Main, Germany. Filed May 3, 1951.

CENEI

For Photographic Apparatus—Namely, Tripods, Photographic Lens Hoods and Light Filters and Mounts for Photographic Lenses and Filters and Containers Therefor, Image Viewers, Lantern Slide Frames, Photographic Picture Mounts.
Claims use since March 1910 in Germany; and since February 1934 in commerce between foreign nations and the United States.

Ser. No. 635,688. The Dayton Pump & Manufacturing Company, Dayton, Ohio. Filed Sept. 24, 1952.

Rapidayton

Applicant claims ownership of Registration No. 158,422.
For Self-Measuring Gasoline Pumps.
Claims use since 1915.

Ser. No. 637,439. Graflex, Inc., Rochester, N. Y. Filed Oct. 31, 1952. (Sec. 2f.)

PHOTORECORD

Applicant claims ownership of Registration No. 317,559.
For Cameras, Magazines for Cameras, Flash-Lamp Supports for Use With Cameras, Carrying Cases Specially Made for Photographic Use for Carrying Photographic Cameras and Camera Equipment, Mechanisms for Advancing the Film and Tripping the Shutter of a Camera Which Are Remote-Operated Through a Foot Treadle or the Like and Which Include the Foot Treadle and Its Connections With the Film Advancing and Shutter Tripping Mechanisms of the Camera, and Camera Supporting Brackets.
Claims use since June 18, 1929.

Ser. No. 639,269. Ercona Camera Corporation, New York, N. Y. Filed Dec. 10, 1952.

PENTAX

For Cameras and Camera Lenses and Finders.
Claims use since November 1951.

Ser. No. 639,326. Goodyear Aircraft Corporation, Wilmington, Del., and Akron, Ohio. Filed Dec. 11, 1952.

GEDA

For Electronic Apparatus Designed To Simulate Physical Problems or Solve Mathematical Equations Relating to Questions of Motion or Control.
Claims use since Aug. 28, 1952.

Ser. No. 639,745. Daintee Toys, Inc., Brooklyn, N. Y. Filed Dec. 19, 1952.

PANA-MATH

No claim is made to the term "Math" apart from the mark shown in the drawing.
For Counting Frames of the Abacus Type.
Claims use since Nov. 14, 1952.

Ser. No. 646,448. Manning, Maxwell & Moore, Incorporated, New York, N. Y. Filed Apr. 14, 1953.

MAXISAFE

For Pressure Gauges.
Claims use since Feb. 24, 1953.

Ser. No. 646,490. Quick-Set, Incorporated, Skokie, Ill. Filed May 5, 1953.

HUSKY

For Photographic Apparatus Consisting of Tripods and Panheads.
Claims use since Apr. 8, 1953.

Ser. No. 646,584. United World Films, Inc., New York, N. Y. Filed May 6, 1953.

UNITED WORLD

The lining in the drawing represents lining forming part of the mark. Applicant claims ownership of Registration No. 529,141.
For Developed Motion Picture Films.
Claims use since Dec. 1, 1946.

Ser. No. 646,592. A. G. Fuer Optik und Feinmechanik, Vaduz, Liechtenstein. Filed May 7, 1953.

Travenar

For Cameras, Camera Lenses, Exposure Meters, and Range Finders.
Claims use since on or about Mar. 1, 1953.

Ser. No. 647,430. Mansfield Industries, Inc., Chicago, Ill. Filed May 21, 1953.

Holiday

For Moving Picture Photographic Equipment, for Amateur Use—Namely, Movie Cameras and Movie Projectors.
Claims use since Mar. 19, 1953.

Ser. No. 647,659. The Sheffield Corporation, Dayton, Ohio. Filed May 25, 1953.

AIRETEST

For Gauging Apparatus for Measurement or Comparison of the Size or Dimension of an Article To Be Gauged.
Claims use since Dec. 23, 1952.

Ser. No. 647,703. Longines-Wittnauer Watch Co., Inc., New York, N. Y. Filed May 26, 1953.

FUTURSCOPE

For Series of Motion Picture Films.
Claims use since Jan. 19, 1953.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 643,564. Star Watch Case Co., Ludington, Mich. Filed Mar. 12, 1953.



Applicant claims ownership of Registrations Nos. 84,196, 195,577, and 263,981.
For Watch Cases.
Claims use since Feb. 5, 1909.

Ser. No. 644,864. Ollendorff Watch Co. Inc., New York, N. Y. Filed Apr. 7, 1953.

LIGHTHOUSE

For Watches and Clocks.
Claims use since Mar. 1, 1953.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 616,276. Bruner-Ritter, Inc., New York, N. Y. Filed July 10, 1951.

Queen Victoria

For Metal Bracelets for Wrist Watches.
Claims use since July 6, 1949.

Ser. No. 643,363. Peck & Peck, New York, N. Y. Filed Mar. 9, 1953.



Applicant claims ownership of Registration No. 562,983.
For Costume Jewelry—Namely, Earrings, Bracelets, Pins, and Necklaces.
Claims use since 1938.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 641,953. The New York Association for the Blind, Inc., New York, N. Y. Filed Feb. 9, 1953.

Brant Point

For Floor Brushes.
Claims use since June 1952.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 631,280. Fabrica de Porcelana da Vista Alegre, Limitada, Lisbon, Portugal. Filed June 17, 1952.



Applicant claims ownership of Portugese Registration No. 73,830, dated May 12, 1951.
For Dinner, Table, and Kitchen Ware—Namely, Dishes, Platters, Bowls, Plates, Cups, Saucers, Pigs, Coffee Pots, Tea Pots, Milk Pitchers, Beakers, Sugar Bowls, Mugs, Steins, Salt Shakers, Pepper Shakers, Containers for Spices, Tea, Coffee, Flour, Butter, Rice, Molds, Mixing Bowls, Salad Bowls, in White, Unpainted, Colored, Tinted, Enameled, Stained, Printed and Ornamented Form; Vases, Tea Tile and Serving Tiles for Use on the Table; All the Said Articles Being Made of Porcelain, Ceramic, Crockery, or Pottery.

Ser. No. 631,281. Fabrica de Porcelana da Vista Alegre, Limitada, Lisbon, Portugal. Filed June 17, 1952.



Priority is claimed under Sec. 44(d). Portugese application filed Apr. 10, 1952; Registration No. 76,910, dated Apr. 10, 1952.
For Dinner, Table, and Kitchen Ware—Namely, Dishes, Platters, Bowls, Plates, Cups, Saucers, Pigs, Coffee Pots, Tea Pots, Milk Pitchers, Beakers, Sugar Bowls, Mugs, Steins, Salt Shakers, Pepper Shakers, Containers for Spices, Tea, Coffee, Flour, Butter, Rice, Molds, Mixing Bowls, Salad Bowls, in White, Unpainted, Colored, Tinted, Enameled, Stained, Printed and Ornamented Form; Vases, Tea Tiles and Serving Tiles for Table Use; All the Said Articles Being Made of Porcelain, Ceramic, Crockery, or Pottery.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 646,253. Amana Refrigeration, Inc., Amana, Iowa. Filed May 1, 1953.

Amana

For Refrigerators, Freezers, and Parts Thereof.
Claims use since December 1945.

Ser. No. 646,287. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed May 1, 1953. (Sec. 2f.)

Ingersoll-Rand

Applicant claims ownership of Registration No. 146,488.
For Steam-Jet, Water Vapor Refrigeration Units.
Claims use since Oct. 18, 1932.

CLASS 33

GLASSWARE

Ser. No. 627,977. Silvalyte, Inc., Brooklyn, N. Y. Filed Apr. 11, 1952.

Silvalyte

For Household and Decorative Glassware and Glass Tableware Wholly or Partially Covered With Non-Precious Metal Plating—Namely, Bowls, Candy Dishes, Coasters, Cocktail Shakers, Covered Dishes, Cream Pitchers, Drinking Glasses, Tumblers and Goblets, Gravy Bowls, Hollow Ware, Liquor and Wine Glasses, Pepper and Salt Shakers; Pitchers for Water, Lemonade, and Iced Tea; Serving Plates, Tea Pots, Vases.
Claims use since Oct. 2, 1951.

Ser. No. 639,893. Oil City Glass Company, Oil City, Pa. Filed Dec. 22, 1952.



For Glass Bottles.
Claims use since Oct. 13, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 647,134. Affiliated Gas Equipment, Inc., Cleveland, Ohio, and Monrovia, Calif. Filed May 18, 1953.



For Gas Water Heaters and Forced Air Furnaces.
Claims use since Mar. 9, 1953.

CLASS 37

PAPER AND STATIONERY

Ser. No. 611,508. Eureka Specialty Printing Company, Scranton, Pa. Filed Mar. 19, 1951.



Applicant claims ownership of Registrations Nos. 172,300 and 334,877.
For Paper for Safety Paper, Wrapping Paper, Book Covers, and Partially Printed Checks.
Claims use since 1912.

Ser. No. 624,719. Renker-Bellpa, G. m. b. H., Lendersdorf-Krauthausen near Duren, Germany. Filed Oct. 22, 1951.



For Paper, Cardboard, Carton, Paper and Cardboard Wares—Namely, Blueprint Paper, Oil Tracing Paper, Natural Tracing Paper, Logarithm or Other Ruled Paper, Drawing Paper, Copying Paper Not Including Carbon Paper, Wax Paper, Chart Paper, Paraffin Paper, Oiled Packing Paper, Manifold Paper, Agate Silk or Tissue Paper, Cambric Paper, Cloth Centered Paper, Lampshade Paper.
Claims use since April 1948, in Germany; and use in commerce between Germany and the United States since October 1950.

Ser. No. 627,429. Martin J. Ferguson, doing business under the name of Child Development Company, Rye, N. Y. Filed Apr. 2, 1952.

Star-a-Day

For Partially Printed Child Behavior Charts.
Claims use since Sept. 25, 1951.

Ser. No. 631,050. Crocker-McElwain Company, Holyoke, Mass. Filed June 11, 1952.

PUBLIC SERVICE

For Writing Paper.
Claims use since May 13, 1952.

Ser. No. 639,860. Wyomissing Glazed Paper Company, West Reading, Pa. Filed Dec. 20, 1952.



Applicant claims ownership of Registrations Nos. 341,666, 342,057, and others.
For Flint Glazed Paper, Friction Glazed Paper, Plated Label Paper, Mat Paper, Mica Paper, Waterproof Paper, Semi-Waterproof Paper, Paper With Special Coating, Ferro Glazed Paper, Cover Papers, Coated Litho Paper, Duplex Coated Papers, Top-Sized Paper, Metallic Paper, Embossed Paper and Decorated Paper for Wrapping Purposes, Sold in Sheets and Rolls.
Claims use since Nov. 25, 1952.

Ser. No. 640,444. Arthur Doniger Paper Co., Inc., New York, N. Y. Filed Jan. 7, 1953.

SAFIR

For Lampshade Parchment and Paper, Sectional Paper, Paper for Cartridges, Graph Paper, Waxed Paper, Non-Sensitized Ferroprussiate and Sepia Papers, and Cloth Lined Paper.
Claims use since November 1950.

Ser. No. 643,918. New York Silicate Book Slate Co., Inc., New York, N. Y. Filed Mar. 19, 1953. (Sec. 2f.)

EZY-RASE CRAYON

Applicant makes no claim to the word "Crayon" apart from the mark shown.
For White Blackboard Chalk and Water-Soluble Wax Crayons.
Claims use since October 1937.

Ser. No. 644,470. Topco Associates, Inc., Chicago, Ill. Filed Mar. 30, 1953.

BO-PEEP

For Facial Tissues, Paper Napkins, Paper Towels, and Toilet Tissues.
Claims use since on or about Mar. 21, 1949.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 624,846. National Bellas Hess, Inc., North Kansas City, Mo. Filed Feb. 12, 1952.

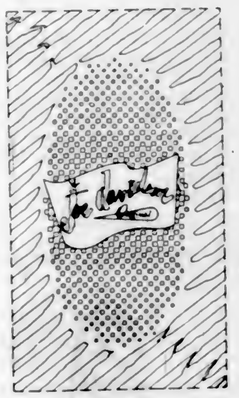
NATIONAL BARGAIN COUNTER

No claim is made to the use of the words "Bargain Counter" except in connection with the word "National." Applicant claims ownership of Registration No. 277,901.
For Sections or Special Features in Catalogues Published Periodically.
Claims use since Aug. 1, 1932.

CLASS 39

CLOTHING

Ser. No. 511,202. Davidson Sportswear Co. Inc., New York, N. Y. Original filed, act of 1905, Oct. 21, 1946; amended to application under act of 1946, Supplemental Register, Dec. 16, 1950; amended to Principal Register, Jan. 30, 1952.



The word "Original" is disclaimed apart from the combination shown. The overall design of the package is disclaimed. The name "Joe Davidson" is fanciful.
For Ladies' Sportswear—Namely, Blouses, Slacks, Jackets, and Dresses.
Claims use since on or about Oct. 19, 1945.

Ser. No. 515,316. Leighton Hats, Inc., New York, N. Y. Original filed, act of 1905, Jan. 6, 1947; amended to application under act of 1946, Principal Register, Sept. 8, 1950. (Sec. 2f.)

Tish-U-Felt



The picture of the girl is fanciful. The words "Tish-U" and "Felt" and the representation of the hat are disclaimed apart from the mark shown on the drawing. Applicant claims ownership of Registrations Nos. 343,013 and 411,046.
For Women's, Men's, and Children's Hats and Hat Bodies.
Claims use since on or about Mar. 1, 1945.

Ser. No. 559,006. Countess Mara, Inc., New York, N. Y. Filed June 11, 1948. (Sec. 2f.)

Countess Mara

The name "Countess Mara" is another name of the president of the applicant. Applicant claims ownership of Registrations Nos. 370,030, 380,728, and others.
For Men's Clothing, Specifically, Neckties, Lounging Robes, Smoking Jackets, Mufflers, Pajamas, and Handkerchiefs.
Claims use since Nov. 25, 1937.

Ser. No. 606,467. Gerry Nufoam Shoe Corporation, New York, N. Y. Filed Nov. 16, 1950.

Gerry Nufoam DOODLERS

The words "Gerry" and "Nufoam" are disclaimed apart from the mark as shown.
For Women's and Children's Shoes and Slippers.
Claims use since Jan. 2, 1950.

Ser. No. 607,559. The Puritan Knitting Mills, Inc., Altoona, Pa. Filed Dec. 11, 1950.

PURITAN SPORTSWEAR

No claim is made to the word "Sportswear" or "The Choice of All Americans," apart from the mark as shown. Applicant claims ownership of Registration No. 433,407.
For Garments for Wear by Men, Women, and Children—Namely, Sweaters, Bathing Suits, Bathing Shirts, and Bathing Trunks.
Claims use since Aug. 23, 1950.

Ser. No. 608,352. Greater Seattle, Inc., Seattle, Wash. Filed Jan. 4, 1951.

SEAFAIR

Applicant claims ownership of Registration No. 566,547.
For Men's and Boys' Carnival Jackets.
Claims use since Oct. 13, 1950.

Ser. No. 627,452. Mrs. Thomas Allen Moore, doing business as Mari Moore, Milwaukee, Wis. Filed Apr. 2, 1952.

Littledoll

For Children's Underwear, Dresses, Sweaters, Coats, Overcoats, Scarves, Skirts, Trousers, Gloves, Shoes, Belts, Hosiery, Hats, and Caps.
Claims use since Feb. 25, 1949.

Ser. No. 629,388. Rae-Gren Company, Winnetka, Ill. Filed May 8, 1952.

FLING

For Boys' and Girls' Berets Decorated With Ribbons.
Claims use since Feb. 28, 1952.

Ser. No. 630,899. Mammoth Hosiery Mills, Inc., Philadelphia, Pa. Filed June 7, 1952.

Crown Jewel

For Women's Hosiery.
Claims use since November 1948.

Ser. No. 631,178. Reliance Manufacturing Company, Chicago, Ill. Filed June 13, 1952. (Sec. 2f.)

SEDGWICK

For Dress, Negligee, and Work Shirts, and Pajamas.
Claims use since Mar. 26, 1934.

Ser. No. 636,280. Frielich Brothers Corporation, New York, N. Y. Filed Oct. 7, 1952.

CINO RUBBER

Applicant disclaims the descriptive word "Rubber" apart from the mark as shown.
For Men's, Women's, and Children's Visors per se for Use on Hats and Caps.
Claims use since Feb. 1, 1950.

Ser. No. 636,627. Brooks-Miller Co., Chicago, Ill. Filed Oct. 15, 1952.



The individual depicted is fanciful. Applicant disclaims the pictorial representation of the goods apart from the mark as shown.
For Dungarees, for Men, Women, and Children.
Claims use since Oct. 1, 1952.

Ser. No. 636,939. Portis Style Industries, Inc., Chicago, Ill. Filed Oct. 21, 1952.

FEATHERY FIT

Applicant makes no claim to the word "Fit" apart from the mark as shown.
For Men's Hats.
Claims use since Sept. 29, 1952.

Ser. No. 642,414. J. M. Lynch & Bro., Louisville, Ky. Filed Feb. 18, 1953. (Sec. 2f as to "Hermosa.")



The picture of the girl is fanciful.
For Hosiery for Men, Women, and Children.
Claims use since March 1942.

Ser. No. 642,801. Hattie Carnegie, Inc., New York, N. Y. Filed Feb. 26, 1953.

MIDINETTE

For Hats for Women.
Claims use since June 1, 1952.

Ser. No. 643,295. Cluett, Peabody & Co. Inc., Troy, N. Y. Filed Mar. 9, 1953.

Golden Arrow

Applicant claims ownership of Registration No. 252,908.
For Men's Outer Shirts and Collars, Handkerchiefs, and Neckties.
Claims use since Aug. 29, 1928.

Ser. No. 643,303. Ely & Walker Dry Goods Company, St. Louis, Mo. Filed Mar. 9, 1953.

E.W Quads

Applicant claims ownership of Registrations Nos. 240,631, 401,544, and others.
For Men's, Women's, Children's, and Infants' Hosiery.
Claims use since on or about Sept. 9, 1952.

Ser. No. 643,678. Gotham Hosiery Company, Inc., New York, N. Y. Filed Mar. 16, 1953.

Fashion Six

"Fashion" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 556,866 and 556,867.
For Ladies' Hosiery.
Claims use since Feb. 25, 1953.

Ser. No. 643,860. Sleepwear, Inc., New York, N. Y. Filed Mar. 18, 1953.



Applicant claims ownership of Registration No. 425,838.
For Men's, Women's, and Children's Pajamas.
Claims use since July 19, 1951.

Ser. No. 644,057. The Palace Clothing Co. Inc., Kansas City, Mo. Filed Mar. 23, 1953.



For Men's Clothing—Namely, Coats, Hats, Sport and Dress Shirts, Neckties, and Sweaters.
Claims use since Jan. 20, 1953.

Ser. No. 644,321. Janedale Hosiery Mills, Inc., Blackwood, N. J. Filed Mar. 27, 1953.

TRICOLETS

For Women's Foot Socks.
Claims use since Mar. 20, 1953.

Ser. No. 644,492. Broadstreet's, Inc., New York, N. Y. Filed Mar. 31, 1953.

BROADSTREETER

Applicant claims ownership of Registrations Nos. 252,466, 363,447, and 380,941.
For Men's, Boys', and Children's Suits, Consisting of Coats, Vests, and Pants; Overcoats, Raincoats, Shoes, Hats, Smoking Jackets, Robes, Automobile Coats, Dress, Negligee, Sport and Work Shirts, and Underwear; Men's Neckties; Gloves Made of Leather, or Fabric, or Combinations Thereof; Socks, Stockings, Hosiery, Handkerchiefs, Scarfs, and Mufflers; Women's Underwear; and Women's and Girls' Suits, Consisting of Coat and Skirt, and Coats.
Claims use since Feb. 16, 1953.

Ser. No. 644,812. Trimble Hat Company, Minneapolis, Minn. Filed Apr. 6, 1953.

THE Dominion

For Ski Caps for Men, Women, Boys, and Girls.
Claims use since Jan. 11, 1953.

Ser. No. 644,825. Botany Mills, Inc., Passaic, N. J. Filed Apr. 7, 1953.

KNOT-O-MATIC

Applicant does not claim the exclusive right to the use of the word "Knot" standing alone.
For Neckties.
Claims use since Mar. 24, 1953.

Ser. No. 644,960. Blue Gem Manufacturing Company, Greensboro, N. C. Filed Apr. 9, 1953.

RUSTLER

For Dungarees.
Claims use since Mar. 23, 1953.

Ser. No. 645,014. Standard Hosiery Company, New York, N. Y. Filed Apr. 9, 1953.



For Men's, Ladies', and Children's Hosiery.
Claims use since July 1, 1950.

Ser. No. 645,246. The Haverfield Company, Columbus, Ohio. Filed Apr. 14, 1953.

Jean Arlett

The name "Jean Arlett" is fanciful.
For Hats for Women and Misses.
Claims use since Jan. 1, 1937.

Ser. No. 645,819. Lubin-Weeker Co., Inc., New York, N. Y. Filed Apr. 23, 1953. (Sec. 2f.)

SLEEP-FORM

For Pajamas.
Claims use since Apr. 7, 1948.

Ser. No. 646,172. School-Timer Frocks, Inc., Port Park, S. C., and New York, N. Y. Filed Apr. 29, 1953.

SCHOOL-TIMER

For Children's Dresses, Dressing Robes, Jackets, Panties, Briefs, Vests, Slips, Underwear, Nightgowns, Sleeping Pajamas, and Socks.
Claims use since Nov. 3, 1952.

Ser. No. 646,725. Baker Clothes, Inc., Philadelphia, Pa. Filed May 11, 1953.

Summersalt

For Men's Clothing—Namely, Coats, Trousers, Vests, and Sport Coats.
Claims use since Dec. 12, 1952.

Ser. No. 647,031. Penn Valley Knitting Mills, Inc., Boyertown, Pa. Filed May 14, 1953.

PennValley

For Men's and Boys' Cotton Knitted Outer and Underwear—Namely, Athletic Shirts, T-Shirts, Briefs, and Polo Shirts.
Claims use since January 1942.

Ser. No. 647,066. H. Freeman & Son, Inc., Philadelphia, Pa. Filed May 15, 1953. (Sec. 2f.)

WAYLITE

Applicant claims ownership of Registration No. 338,576.
For Men's Top Coats, Overcoats, Suits, Sport Coats, and Trousers.
Claims use since prior to Apr. 27, 1934.

Ser. No. 647,107. Style Undies, Inc., New York, N. Y. Filed May 15, 1953.

Velannel

For Children's Dresses, Panties, Slips, Pajamas, and Nightgowns.
Claims use since Feb. 24, 1953.

Ser. No. 647,108. Style Undies, Inc., New York, N. Y. Filed May 15, 1953.

Velissé

For Children's Dresses, Panties, Slips, Pajamas, and Nightgowns.
Claims use since Feb. 24, 1953.

Ser. No. 647,109. Style Undies, Inc., New York, N. Y. Filed May 15, 1953.

Veltiste

For Children's Dresses, Panties, Slips, Pajamas, and Nightgowns.
Claims use since Feb. 24, 1953.

Ser. No. 647,359. J. M. Lynch & Bro., Louisville, Ky. Filed May 20, 1953.



For Hosiery for Men, Women, and Children.
Claims use since Apr. 29, 1953.

Ser. No. 647,507. Phil Kronfeld, Inc., New York, N. Y. Filed May 22, 1953.

"FEATHERAMA"

For Men's Hats.
Claims use since May 8, 1953.

Ser. No. 647,545. Santa Fe Novelty Company, Denver, Colo. Filed May 22, 1953.

SANCO

For Belts, Consisting Wholly or Partially of Leather for Personal Wear.
Claims use since on or about Jan. 1, 1953.

Ser. No. 647,608. H. Freeman & Son, Inc., Philadelphia, Pa. Filed May 25, 1953.

Acclimator

For Men's Outer Coats.
Claims use since May 4, 1952.

Ser. No. 647,609. H. Freeman & Son, Inc., Philadelphia, Pa. Filed May 25, 1953.

Atmos-Fair

For Men's Outer Coats.
Claims use since May 4, 1952.

Ser. No. 647,610. Erwin D. Friedlaender, doing business under the firm name and style of De Free's, New York, N. Y. Filed May 25, 1953.

deFree's

Four-In-Hand Neckties, Bow Ties, Knitted Ties, Scarfs, Mufflers, Dress Shirts, Sport Shirts, Basque Shirts, Polo Shirts, Loafer Coats, Sport Jackets, Sport Trunks, Bath Robes, Pajamas, Sport Trousers, Slack Suits, Blouses, Shirtwaists and Waists, for Men, Women, and Children.
Claims use since on or about Nov. 7, 1946.

Ser. No. 647,726. Saks & Company, New York, N. Y. Filed May 26, 1953.

Rannoch shop

Applicant disclaims the right to the exclusive use of the word "Shop." Applicant claims ownership of Registration No. 292,671.
For Boys' and Young Men's Outer Clothing—Namely, Suits, Top Coats, Jackets, and Overcoats; Underwear; Hats; Negligee Shirts, Dress Shirts, and Work Shirts; Collars, and Neckties.
Claims use since Mar. 22, 1932.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 634,136. Bronson Products, Chicago, Ill. Filed Aug. 19, 1952.

Esquire
X-TRA STAYS

The term "X-Tra Stays" is disclaimed apart from the mark as shown.
For Devices for Insertion Into the Collars of Shirts as a Stiffener for Said Collar Points, Said Devices Generally Known in the Trade as Collar Stays.
Claims use since May 25, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 584,879. Stapf Fabrics, Inc., New York, N. Y. Filed Sept. 15, 1949. (Sec. 2f as to "Stapf.")



The word "Fabrics" and the representation of the goods are disclaimed apart from the mark shown in the drawing.
For Cotton Fabrics in the Piece and in Cut Lengths.
Claims use since Jan. 3, 1949, on the mark as shown; and since 1940 as to "Stapf."

Ser. No. 612,859. John G. Hardy Limited, London, England. Filed Apr. 19, 1951.

HARDILUX

Applicant claims ownership of British Registration No. 691,849, dated Aug. 28, 1950.
For Piece Goods Made of Wool.

Ser. No. 616,558. John G. Hardy Limited, London, England. Filed July 16, 1951.

HARDILITE

Applicant claims ownership of British Registration No. 445,904, dated Mar. 3, 1924.
For Piece Goods Made of Wool.

Ser. No. 622,002. Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y., a corporation of Delaware. Filed Dec. 3, 1951. (Sec. 2f.)

GROPOINT

For Woven Pile Rugs and Carpets.
Claims use since 1938.

Ser. No. 626,544. S. Stein & Co. Inc., New York, N. Y. Filed Mar. 15, 1952.

CASMOOR

Applicant claims ownership of Registration No. 195,914.
For Woolen Fabrics in the Piece and in Cut Lengths.
Claims use since July 28, 1924.

Ser. No. 635,823. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Sept. 26, 1952.

Cupresa

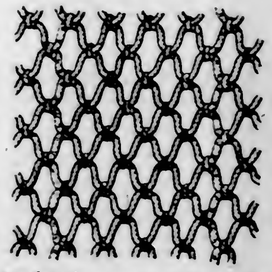
Applicant claims ownership of German Registration No. 600,688, dated Aug. 11, 1950.
For Textile Fabrics of Synthetic Fibres.

Ser. No. 637,726. Morris Shoenthal, Inc., New York, N. Y. Filed Nov. 6, 1952.



Applicant disclaims the words "Fabrics" and "Corporation" when used separate and apart from the mark as shown.
For Textile Fabrics Made of Cotton, Silk, Wool, Rayon, and Synthetic Fibers.
Claims use since on or about Oct. 2, 1951.

Ser. No. 637,931. The Linen Thread Co., Inc., Paterson, N. J. Filed Nov. 12, 1952.



The mark consists in corresponding bars of every fifth mesh counting across the body of the fish netting having spots of gold color spaced apart longitudinally thereof. The drawing is lined for gold color. No claim is made to the representation of the fish netting per se.
For Fish Netting.
Claims use since Oct. 31, 1952.

Ser. No. 639,260. Barbet Mills, Inc., Lexington, N. C. Filed Dec. 10, 1952.

CINCH DRESS

No claim is made to the word "Dress" apart from the mark as shown on the drawing.
For Tubular Cotton Jersey Piece Goods for Use by Retail Purchasers in Making Home Made Dresses.
Claims use since Oct. 19, 1952.

Ser. No. 639,890. Newark Comfort Company, Newark, N. J. Filed Dec. 22, 1952.

Acetron



For Baby Blankets, Baby Comforters, and Baby Carriage Covers.
Claims use since Oct. 15, 1952.

Ser. No. 641,655. Edson, Incorporated, Chicago, Ill. Filed Jan. 6, 1953. (Sec. 2f.)

Edsonart

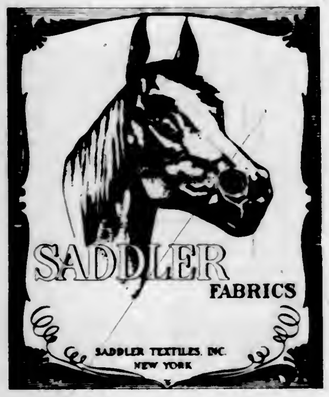
Applicant claims ownership of Registration No. 419,428.
For Draperies, Card Table Covers, and Piece Goods of Cotton, Linen, and Synthetic Fibers.
Claims use since Mar. 18, 1944.

Ser. No. 642,700. The H. A. Seinsheimer Company, Cincinnati, Ohio. Filed Feb. 24, 1953.

"HIS NUBS"

The words "Nubs" is disclaimed apart from the mark as shown on the drawing.
For Textile Fabrics of Wool, Used in the Manufacture of Men's and Boys' Suits, Overcoats, Topcoats, Trousers, and Slacks.
Claims use since on or about Jan. 1, 1950.

Ser. No. 643,616. Saddler Textiles, Inc., New York, N. Y. Filed Mar. 13, 1953.



No registration rights are claimed for any of the wording on the mark shown except "Saddler." The lining is a reproduction of lines forming part of the mark.
For Piece Goods of Cotton, Rayon, and Mixtures Thereof.
Claims use since March 1949.

Ser. No. 643,911. The Kaybee Corporation, New York, N. Y. Filed Mar. 19, 1953

Kitchen Companions

No registration rights are claimed for the word "Kitchen" apart from the mark as a whole.
For Flexible Plastic Film in the Roll; and Shelf Lining, Shelf Edging, Draperies, Window Curtains, and Tablecloths, All Made of Flexible Plastic.
Claims use since July 1952.

Ser. No. 644,072. Societe Rhodiaceta, Paris, France. Filed Mar. 23, 1953.

albène

For Textile Fabrics Woven From Threads of Cellulose Acetate.
Claims use since Oct. 4, 1945; and use in commerce between France and the United States since Mar. 7, 1947.

Ser. No. 644,521. Societe Rhodiaceta, Paris, France. Filed Mar. 31, 1953.

RHODIA

Applicant claims ownership of Registration No. 179,750.
For Textile Fabrics Woven From Threads of Cellulose Acetate.
Claims use since Nov. 29, 1944; and use in commerce between France and the United States since January 1948.

Ser. No. 645,041. Goodall-Sanford, Inc., Sanford, Maine. Filed Apr. 10, 1953.

SHAGLUX

For Piece Goods of Pure Wool or Blended Wool and Mohair or Alpaca, Sold in Bolt.
Claims use since Feb. 25, 1953.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 612,811. Louis P. Mack, Chicago, Ill. Filed Apr. 18, 1951.



Applicant disclaims, apart from the mark as shown herein, the words "Active Man" and "Chicago" and any representation of the goods themselves.
For Trusses.
Claims use since Jan. 17, 1950.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 638,643. Florasynth Laboratories, Incorporated, New York, N. Y., Chicago, Ill., Dallas, Tex., Detroit, Mich., etc. Filed Nov. 26, 1952.

OXFORD DELIGHT

Applicant disclaims exclusive use of "Oxford," except when used jointly with "Delight."
For Non-Alcoholic Maltless Soft Drinks.
Claims use since Oct. 30, 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 566,360. Societe Anonyme l'Aliment Essentiel, Nanterre, France. Filed Oct. 2, 1948. (Sec. 2f.)

Heudebert

Applicant claims ownership of French Registration No. 212,242, dated Sept. 11, 1922, and United States Registration No. 205,381.
For Dietary Products for Children, the Sick, and Convalescent — Namely, Wheat Cereal, Corn Cereal, Rice Cereal, Tapioca, Potato Starch, Biscuits, and Gluten Flour.
Claims use since May 1906; and first used in commerce between France and the United States in May 1906.

Ser. No. 588,214. C. H. Guenther & Son, Incorporated, doing business as Pioneer Flour Mills, San Antonio, Tex. Filed Nov. 23, 1949. CONCURRENT USE with Regs. No. 176,505 and No. 518,120 for the area comprising the State of Texas and that portion of the State of Louisiana lying west of a north-south line passing through the city of Alexandria in the parish of Rapides of said State.

ANGEL FOOD

For Wheat Flour.
Claims use since in or about April 1900.

Ser. No. 595,826. Melvin E. Coleman, Waco, Tex., assignor to Chuc-Wagun System Incorporated, Waco, Tex., a corporation of Texas. Filed Apr. 17, 1950.



No claim is made to the exclusive right to use the word "Burger" or the representation of a bun or sandwich, apart from the mark as shown.
For Sandwiches.
Claims use since Nov. 2, 1949.

Ser. No. 595,827. Melvin E. Coleman, Waco, Tex., assignor to Chuc-Wagun System Incorporated, Waco, Tex., a corporation of Texas. Filed Apr. 17, 1950.



No claim is made to the exclusive right to use the word "Burger" or the representation of a bun or sandwich, apart from the mark as shown.
For Sandwiches.
Claims use since Nov. 2, 1949.

Ser. No. 610,430. Fascination Candy Co., Inc., Chicago, Ill. Filed Feb. 23, 1951.

Harmony

For Candies—Namely, Chocolate Covered Cherries.
Claims use since in or about the year 1926.

Ser. No. 613,358. B & W Food Company, Birmingham, Ala. Filed May 1, 1951.

Jel-Nut-Jel

For Peanut Butter and Apple Jelly Combined.
Claims use since Feb. 13, 1951.

Ser. No. 615,785. Midwest Dairy Products Corporation, Chicago, Ill. Filed June 27, 1951.



For Dairy Products—Namely, Milk, Chocolate Milk, Buttermilk, Chocolate Drink (Containing Milk), Half and Half (Part Milk and Part Cream), and Whipping Cream, All in Liquid Form, and Ice Cream and Cheese.
Claims use since Apr. 12, 1951.

Ser. No. 618,438. Velvet Freeze, Inc., St. Louis, Mo. Filed Sept. 4, 1951. (Sec. 2f.)

VELVET FREEZE

For Ice Cream.
Claims use since June 25, 1932.

Ser. No. 619,010. Corey Candies, Inc., Toledo, Ohio. Filed Sept. 20, 1951.

TORTETTES

For Candies.
Claims use since June 8, 1951.

Ser. No. 619,636. The Mar-Gold Corporation, Atlanta, Ga. Filed Oct. 5, 1951.

Mar-Gold

For Oleomargarine.
Claims use since January 1948.

Ser. No. 621,129. The Borden Company, New York, N. Y. Filed Nov. 13, 1951. (Sec. 2f.)

WEJ-CUT

For Natural Cheddar Cheese and Cream Cheese With or Without Added Condiments Such as Pimento, Relish, or Chive.
Claims use since Nov. 16, 1940.

Ser. No. 623,543. Hershey Chocolate Corporation, Hershey, Pa. Filed Jan. 14, 1952. (Sec. 2f as to "Hershey's.")

HERSHEY'S

Dainties

No exclusive right is claimed to the word "Dainties" apart from the mark shown. Applicant claims ownership of Registrations Nos. 54,041, 321,030, and others.
For Solid Chocolate Used for Eating, Cooking, and Baking.
Claims use since March 1941 on the mark as shown; and since about Jan. 1, 1894, as to "Hershey's."

Ser. No. 624,051. Ridgways Limited, London, England. Filed Jan. 24, 1952. (Sec. 2f as to "Ridgways.")

Ridgways "H M B" (Her Majesty's Blend)

Applicant claims ownership of Registrations Nos. 15,716, 324,669, and 415,918.
For Tea.
Claims use since 1886; and since 1888 in commerce between the United States and Great Britain and Northern Ireland.

Ser. No. 625,324. Amm-O-Gum, Inc., Chicago, Ill. Filed Feb. 21, 1952.

clor·amo

Applicant claims ownership of Registration No. 528,457.
For Chewing Gum.
Claims use since on or about Jan. 5, 1952.

Ser. No. 625,681. Anne Marlowe's Candy Kitchen, Inc., Chicago, Ill. Filed Feb. 28, 1952.

MILK CHOCOLATE Pecan Delites

The words "Milk Chocolate" and "Pecan" are disclaimed apart from the mark as shown.
For Pecan Chocolate Candy.
Claims use since July 1, 1951.

Ser. No. 625,928. Van Camp Sea Food Company, Inc., Terminal Island, Calif. Filed Mar. 4, 1952.

Chicken of the Sea

Applicant claims ownership of Registration No. 97,192.
For Canned Tuna Fish.
Claims use since July 1912.

Ser. No. 626,829. Seabrook Farms Co., Upper Deerfield Township, N. J. Filed Mar. 21, 1952.

SUNPICT

For Quick Frozen Vegetables.
Claims use since Oct. 1, 1950.

Ser. No. 628,033. Carnation Company, Los Angeles, Calif. Filed Apr. 14, 1952.

FRILL

For Dairy Products—Namely, Fluid Milks, Canned Milks, Malted Milks, Cheeses and Ice Creams, and Breakfast Cereals.
Claims use since Mar. 6, 1952.

Ser. No. 631,266. Brown-Miller Company, New Orleans, La. Filed June 17, 1952. (Sec. 2f.)

WIDLAR

For Sliced Dill Pickles.
Claims use since 1887.

Ser. No. 632,299. The Great Atlantic and Pacific Tea Company, New York, N. Y. Filed July 9, 1952.

Marvel

Applicant claims ownership of Registrations Nos. 210,812 and 500,063.
For Ice Cream.
Claims use since June 10, 1952.

Ser. No. 632,300. Seth Harwood Gregory, doing business under the name and style of Sharwood's, Oak Park, Ill. Filed July 9, 1952.

Sharwood's

For Sandwiches.
Claims use since Apr. 10, 1952.

Ser. No. 632,797. William Richheimer, doing business as Crown Coffee Co., Flushing, N. Y. Filed July 19, 1952.

CROWN

For Coffee and Tea.
Claims use since Nov. 22, 1911.

Ser. No. 633,041. Cudahy Brothers Co., Cudahy, Wis. Filed July 23, 1952.

Hy-Kix

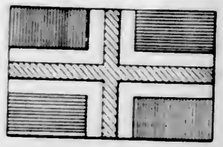
For Shortening Made From Hydrogenated Vegetable Oils.
Claims use since July 12, 1951.

Ser. No. 633,138. Acme-Evans Company, Inc., Indianapolis, Ind. Filed July 28, 1952.

PIE KING

Applicant claims ownership of Registrations Nos. 62,189 and 561,502.
For Wheat Flour.
Claims use since on or about Sept. 14, 1951.

Ser. No. 633,718. De Cooperatieve Fabriek van Melkproducten te Bedum, Bedum, Netherlands. Filed Aug. 11, 1952.



GRONINGER VLAG

The words "Groninger Vlag" translated into English mean "Colors or Flag of Groningen" (a Dutch province). The lining of the drawing is intended to represent the colors red, blue, and green. No claim is made to the exclusive use of the term "Groninger." Applicant claims ownership of Dutch Registrations Nos. 105,168 and 105,840, dated June 5 and Aug. 16, 1950.
For Canned, Fluid, Condensed, and Powdered Milk; and Butter.

Ser. No. 633,749. Atlantic Lobster House, Inc., Charlestown, Mass. Filed Aug. 12, 1952.

Tony George's

The name "Tony George's" identifies the present president of the applicant corporation. Applicant claims ownership of Registration No. 573,372.
For Packaged Frozen Clam Chowder, Lobster Bisque, Lobster Newburg, Lobster Thermidor, Baked Stuffed Lobster, French Fried Shrimp, French Fried Smelts, French Fried Haddock, French Fried Onion Rings, French Fried Scallops, French Fried Lobster, and Shrimp Newburg.
Claims use since Oct. 30, 1950.

Ser. No. 634,799. Nebraska Consolidated Mills Company, doing business as Alabama Flour Mills, Omaha, Nebr. Filed Sept. 3, 1952.

C-87

For Laying Mash.
Claims use since June 14, 1952.

Ser. No. 635,423. Midwest Dried Milk Company, Dundee, Ill. Filed Sept. 18, 1952.

DARi-RiTE

Applicant claims ownership of Registration No. 564,782.
For Chicken and Turkey Feed Consisting Mainly of Condensed Whey.
Claims use since Sept. 11, 1952.

Ser. No. 637,156. Tri-County Dairy Cooperative, Winthrop, Minn. Filed Oct. 24, 1952. (Sec. 2f.)

HI-LACTIC

For Commercial Feeds for Animals—Namely, Chickens, Hogs, and Turkeys.
Claims use since July 1, 1947.

Ser. No. 638,737. Rowntree and Company Limited, York, England. Filed Nov. 28, 1952.



The picture of the girl shown in the drawing does not represent any particular living individual. Applicant claims ownership of British Registration No. 692,833, dated Oct. 6, 1950.
For Cocoa.

Ser. No. 638,947. Dairy Sales Company of Maryland, Inc., Baltimore, Md. Filed Dec. 4, 1952.

Whiz-whip

No claim is made to the word "Whip" apart from the mark as shown.
For Preparation Containing Hydrogenated Vegetable Oils, Sugar, Vegetable Protein, Lecithin, Etc., for Use in Making Whipped Toppings for Bakery Products, Desserts, and Other Foods.
Claims use since Sept. 15, 1952.

Ser. No. 641,739. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Feb. 4, 1953.

polka dot

For Wheat Flour.
Claims use since at least as early as November 1935.

Ser. No. 641,994. The U. & J. Lenson Corp., Brooklyn, N. Y. Filed Feb. 9, 1953.

BIG-CUP

For Coffee.
Claims use since March 1949.

Ser. No. 642,332. Ira O. Well, doing business as La Questa Olive Growers, Corning, Calif. Filed Feb. 16, 1953.

LaQuesta

For Canned and Bottled Olives.
Claims use since Jan. 30, 1953.

Ser. No. 644,520. Seattle Packing Company, Seattle, Wash. Filed Mar. 31, 1953.

BAR S

For Chili Con-Carne, Bologna, Pork Sausage, Bacon, Polish Sausage, Smoked Pork Shoulder Picnic, Smoked Ham, Wieners, Smoked Pork Shoulder Butt, Sausage, Frankfurters, Smoked Pork Sausage, Smoked Bacon, and Liver Sausage.
Claims use since Nov. 6, 1952.

Ser. No. 645,476. The Great Western Sugar Company, Denver, Colo. Filed Apr. 17, 1953.

GW

For Stock Feed Consisting of a Mixture of Proteins, Fat, Crude Fiber, and Carbohydrates Derived From Dried Sugar Beet Pulp, Molasses, and Cotton-Seed Meal and Formed into Pellets.
Claims use since on or about Oct. 1, 1933.

Ser. No. 645,589. Point Sal Growers and Packers, Guadalupe, Calif. Filed Apr. 20, 1953.

Quige

The word "Quige" is fanciful, having no known meaning to applicant.
For Fresh Vegetables.
Claims use since Feb. 20, 1953.

Ser. No. 645,785. N. Dorman & Co. Inc. (N. Y.), New York, N. Y. Filed Apr. 23, 1953.



Applicant claims ownership of Registration No. 291,185.
For Cheese.
Claims use since July 29, 1930.

Ser. No. 646,303. Minnesota Macaroni Company, St. Paul, Minn. Filed May 1, 1953.

SHELLTEENS

Applicant claims ownership of Registration No. 520,468.
For Macaroni.
Claims use since Mar. 18, 1953.

Ser. No. 646,492. Royal Packing Company, Salinas, Calif. Filed May 5, 1953.

Battle Royal

For Fresh Vegetables.
Claims use since Oct. 1, 1952.

Ser. No. 647,419. International Milling Company, Minneapolis, Minn. Filed May 21, 1953.

BIG JO

Applicant claims ownership of Registrations Nos. 103,402; 172,476, 232,924, and 570,046.
For Wheat Flour.
Claims use since Jan. 30, 1889.

Ser. No. 648,661. General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Filed June 12, 1953.

SUGAR JETS

The word "Sugar" is disclaimed apart from the mark shown.
For Ready-To-Eat Cereal.
Claims use since Mar. 11, 1953.

Ser. No. 649,133. Deerfield Groves Company, Wabasso, Fla. Filed June 22, 1953.



For Fresh Citrus Fruit.
Claims use since May 30, 1953.

CLASS 47

WINES

Ser. No. 571,837. Romeo Battistoni, doing business under the name and title Italian and French Wine Co., Buffalo, N. Y. Filed Jan. 8, 1949.

ROMEO

For Still Wines.
Claims use since Sept. 13, 1948.

Ser. No. 648,385. E. & J. Gallo Winery, Modesto, Calif. Filed June 8, 1953.

PAISANO

For Wines.
Claims use since May 26, 1953.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 644,018. Doulton & Co., Limited, Burslem and London, England. Filed Mar. 23, 1953. (Sec. 2f.)

Royal Doulton

Applicant claims ownership of Registrations Nos. 50,410, 50,411, and others.

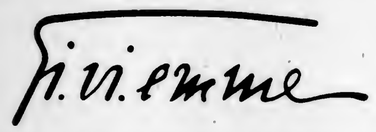
For Earthenware, Porcelain, or Bone China Figurines, and Animal Statuettes.

Claims use since Apr. 1, 1951, as to the mark shown; and since Dec. 3, 1901, in commerce among the several States as to the words "Royal-Doulton" in the form shown in Registration No. 50,411.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 631,285. Gi Vi Emme Societa Anonima Giuseppe Visconti di Modrone & C., Milan, Italy. Filed June 17, 1952.



The mark is a facsimile signature reading "Gi. Vi. Emme." Applicant claims ownership of Italian Registration No. 44,519, dated Oct. 5, 1931, and renewed under No. 74,327, Aug. 28, 1943.

For Perfumes, Toilet Water, Lipstick, Nail Polish, Nail Enamel, Rouge, Cream Rouge, Hair Lotion, Body Lotion, Hand Lotion, Suntan Lotion, Deodorant Lotion, Eye Lotion, Eye Shadow, Eye Cream, Foundation Cream, Cleansing Cream, Night Cream, Body Cream, Suntan Cream, Throat Cream, Skin Tonic, Bath Salts, Bath Oils, Dusting Powder, Talcum Powder, Mascara, Hair Dyeing Preparations, Brilliantines, Dentifrices.

Ser. No. 633,672. Richard Hudnut, New York, N. Y. Filed Aug. 9, 1952.

Clear Beauty

Registration rights in the word "Beauty" apart from the mark as shown are disclaimed.

For Cosmetic Kits Containing One or More of the Following Items: Lubricating Skin Cream, Cleansing Cream, Skin Freshener, Foundation Lotion.

Claims use since June 23, 1952.

Ser. No. 642,095. Societe a Responsabilite Limitee Dite: Balenciaga, Paris, France. Filed Feb. 11, 1953.

28

Applicant claims ownership of French Registration No. 384,535, dated Mar. 17, 1948.

For Perfumes and Toilet Water.

Ser. No. 642,735. Jerry De Salvo, West New York, N. J. Filed Feb. 25, 1953.

SALV-A-HUE

The word "Hue" is disclaimed apart from the mark as shown.

For Hair Reconditioning Preparation.

Claims use since Oct. 1, 1951.

Ser. No. 643,405. Castilla Products, Inc., New York, N. Y. Filed Mar. 10, 1953. (Sec. 2f.)

CASTILLA

Applicant claims ownership of Registration No. 302,507.

For Mouth Wash and Soap for the Teeth.

Claims use since 1931.

Ser. No. 643,581. Charlaine Cosmetics, Inc., Mount Vernon, N. Y. Filed Mar. 13, 1953.

Charlaine

For Cleansing Cream, Cold Cream, Night Cream; Liquid Cleanser for Normal, Dry, and Oily Skin; Hormone Cream, Hand Cream, Skin Freshener Lotion, Astringent Lotion, Complexion Lotion, Hormone Oil, Italian Talc, Spray Brilliantine, Perfumed Deodorant for Personal Use, Powder Base, Cream Rouge, Dry Rouge, Lipstick, Eyeshadow, Mascara, Eye Cream, Eyelash Oil, Eyebrow Pencils, Toilet Waters, Eau de Cologne, and Perfumes.

Claims use since Sept. 5, 1951.

Ser. No. 646,066. The Gillette Company, doing business under the name and style of The Toni Company, Boston, Mass. Filed Apr. 28, 1953.

SOFT TOUCH

No claim is made to the word "Soft" apart from the mark as shown. Applicant claims ownership of Registration No. 572,712.

For Hand Lotion.

Claims use since Oct. 16, 1951.

Ser. No. 646,083. Test-a-Curl, Inc., Seattle, Wash. Filed Apr. 28, 1953.

Test-a-Curl

No claim is made to the exclusive use of the word "Curl" apart from the mark shown in the drawing.

For Hair Wave Lotion.

Claims use since Mar. 13, 1953.

Ser. No. 646,429. Wesley A. Richards, Detroit, Mich. Filed May 4, 1953.

MACKINAC

For Cosmetics—Namely, After Shave Lotion and Hair Dressing.

Claims use since September 1952.

Ser. No. 647,032. Norman J. Phelps, Lake Forest, Ill., assignor to Hugh B. Trotter, Evanston, Ill. Filed May 14, 1953.

BAG O' TRICKS

For Perfume, Cologne, Lipstick, and Face Powder.

Claims use since Mar. 10, 1950.

Ser. No. 647,033. Norman J. Phelps, Lake Forest, Ill., assignor to Hugh B. Trotter, Evanston, Ill. Filed May 14, 1953.

RIPTIDE

For Perfume, Cologne, Lipstick, and Face Powder.

Claims use since Mar. 10, 1950.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 621,840. The Russell Chemical Company, Cleveland, Ohio. Filed Nov. 29, 1951.



Lining of the letter "K" represents shading and not color.

For Detergents for Laundry Purposes.

Claims use since Dec. 14, 1932.

Ser. No. 629,134. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed May 2, 1952.

SERVAC

For Acid Type Detergent and Scale Removing Compound for Use in the Dairy, and Food and Beverage Industries.

Claims use since Mar. 24, 1952.

Ser. No. 633,247. Aerosol Products Corporation, Chicago, Ill. Filed July 30, 1952.

PRONTO

For Combination Dye and Cleaner for Rugs and Carpets.

Claims use since Apr. 16, 1952.

Ser. No. 636,564. Gillespie & Sons, Vancouver, British Columbia, Canada. Filed Oct. 13, 1952.

P.M.T.

For Composition for the Removal of All Foreign Substance From and the Preservation of the Metal in Steam Boilers, Hot Water Heating Systems, Hot Water Tanks, Internal Combustion Engines, and Radiators.

Claims use since January 1933; and use in commerce between foreign nations and the United States since Mar. 15, 1952.

Ser. No. 637,284. National Laboratories, Inc., Toledo, Ohio. Filed Oct. 28, 1952.



Apart from the mark shown, no claim is made for the words "Spot Cleaner" and "Concentrate." Applicant claims ownership of Registration No. 385,868.

For Liquid for Cleaning Surfaces of Glass, Wood, Porcelain, Painted Walls, and the Like.

Claims use since Sept. 18, 1952.

Ser. No. 641,748. Societa Accomandita Semplice Franco Cella & C., Milan Italy. Filed Feb. 4, 1953.



Applicant claims ownership of Italian Registration No. 107,535, dated May 24, 1952.

For Soaps.

Ser. No. 643,345. Lazarus Laboratories, Inc., Division of West Disinfecting Company, Buffalo, N. Y. Filed Mar. 9, 1953.

IOSAN

For Liquid Detergent Germicide Cleaner for Cleaning, Sanitizing, and Disinfecting Milking Equipment.
Claims use since Jan. 1, 1952.

Ser. No. 646,207. Dodge & Olcott, Inc., New York, N. Y. Filed Apr. 30, 1953.

DETEROME

For Perfume Bases for Liquid and Powder Detergents.
Claims use since Feb. 14, 1950.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 634,567. American Yachtsmen's Association, Washington, D. C. Filed Aug. 28, 1952.



The drawing is lined for blue and the monogram in the center of the mark represents the letters "A M Y A." The wording "American Yachtsmen's Association" is disclaimed apart from the mark as shown.

For Services to Yachtsmen—Namely, Assisting in the Procurement of Insurance and Merchandise at Discounted Prices, Furnishing Marine Charts and Publications Published by Others, and Informing Members of Legislation Pertaining to Maritime Regulations.

Claims use since Mar. 26, 1952.

Ser. No. 641,260. Niagara Mohawk Power Corporation, Syracuse, N. Y. Filed Jan. 23, 1953. (Sec. 2f.)

NIAGARA MOHAWK

For Supplying Electrical Energy and Gas for Power, Light, and Heat.

Claims use since June 18, 1929.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 607,097. Retail Merchants Association of Texas, Austin, Tex. Filed Nov. 29, 1950.



The drawing is lined for red.

For Reporting and Making Available Credit Information To Merchants in Texas and the Surrounding States.

Claims use since Aug. 15, 1950.

Ser. No. 617,817. Shinderman Management Corporation, Chicago, Ill. Filed Aug. 17, 1951. (Sec. 2f.)

Shinderman Management

The word "Management" is disclaimed apart from the mark as shown.

For Management of Hotels, Resorts, and Similar Types of Properties, and the Management of Cocktail Lounges, Restaurants, Gift Shops, Night Clubs; and Bath, Health, and Reducing Salons Relating to the Resort and Hotel Business.

Claims use since May 1946.

Ser. No. 619,234. East Texas Photocopy Co., Tyler, Tex. Filed Sept. 26, 1951.



No claim is made to the term "Reproductions a Specialty" except in the association shown.

For Photocopy Service.

Claims use since August 1947.

Ser. No. 619,973. Keystone Broadcasting System, Inc., Chicago, Ill. Filed Oct. 13, 1951.

THE VOICE
OF
RURAL AMERICA

For Selling of Advertising Time on Radio Broadcasting Stations Affiliated With the Applicant, Preparing or Having Prepared for, and/or Distributing to Said Stations for Broadcast Therefrom Programs in Behalf of Advertisers or for Sustaining Purposes, Preparing or Having Prepared for, and/or Distributing to Said Stations Transcriptions and/or Scripts for use by Said Stations as Part of Said Programs.

Claims use since Oct. 4, 1951.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 597,403. Edgar Patrick, doing business as Livernois Moving and Storage Company, Detroit, Mich. Filed May 13, 1950.



Applicant disclaims the wording shown in the mark apart from the mark as shown.

For Transportation and Storage Services — Namely, Moving by Truck or Other Vehicle, Household Goods, Factory or Office Equipment, and Merchandise and Storage of Household Goods, Factory or Office Equipment and Merchandise.

Claims use since September 1938.

TRADE-MARK REGISTRATIONS GRANTED
ACT OF 1946, PRINCIPAL REGISTER

582,592. Packaging Machinery, Including as Exemplary Thereof but Not Conclusive Because the Names of Apparatus in This Class Vary From Time to Time, Carton Making Machines; Etc. J. L. Ferguson Company, Joliet, Ill.
Filed July 5, 1947, Serial No. 527,493. Published July 7, 1953. Class 23.

582,593. Packaging Machinery, Including as Exemplary Thereof but Not Conclusive Because the Names of Apparatus in This Class Vary From Time to Time, Carton Making Machines; Etc. J. L. Ferguson Company, Joliet, Ill.
Filed July 5, 1947, Serial No. 527,494. Published July 7, 1953. Class 23.

582,594. Women's and Girls' Wearing Apparel—Namely, Coats; Suits; Raincoats; Etc. Herbert L. Roberts, doing business as Roberts, Columbus, Ohio.
Filed July 5, 1947, Serial No. 527,789. CONCURRENT USE. Published Aug. 25, 1953. Class 39.

582,595. Liqueurs. Peter Frederik Sulim Heering, doing business as Peter F. Heering, Copenhagen, Denmark.
Filed Dec. 24, 1947, Serial No. 545,373. Published Aug. 4, 1953. Class 49.

582,596. Leather Shoes for Men, Men's and Boys' Suits, Outer Shirts, and Pajamas. R. H. Macy & Co., Inc., New York, N. Y.
Filed Jan. 5, 1948, Serial No. 546,227. Published Aug. 11, 1953. Class 39.

582,597. Alcoholic Cordials and Liqueurs. Societe Anonyme de la Vieille Cure de Cenon, Cenon, France.
Filed Jan. 5, 1948, Serial No. 546,244. Published July 28, 1953. Class 49.

582,598. Watches and Clocks and Parts Thereof. Longines-Wittnauer Watch Co., Inc., New York, N. Y.
Filed Mar. 5, 1948, Serial No. 551,287. Published Sept. 6, 1949. Class 27.

582,599. Sportswear—Namely, Men's and Boys' Dress Shirts, Sport Shirts, and Neckties. M. & D. Simon Company Incorporated, Cleveland, Ohio.
Filed Mar. 31, 1948, Serial No. 553,529. Published Apr. 28, 1953. Class 39.

582,600. Waxed Paper. Blake, Moffitt & Towne, San Francisco, Calif.
Filed July 29, 1948, Serial No. 562,441. Published July 28, 1953. Class 37.

582,601. Synthetic Resins in Solution and Emulsion Forms for Impregnating, Sizing, or Waterproofing Paper, Textiles, or Composition Sheet Material. Monsanto Chemical Company, St. Louis, Mo.
Filed Oct. 7, 1948, Serial No. 566,628. Published Aug. 11, 1953. Class 6.

582,602. Fur Garments, and Women's Apparel—Namely, Fur and Fur Trimmed Coats, Jackets, Capes, Stoles, Muffs, Scarfs, Hats, Gloves, Fur Trimmed Dresses, Belts, Suits, and Fur Pieces. Furs by Robert, Detroit, Mich.
Filed Dec. 2, 1948, Serial No. 569,751. CONCURRENT USE. Published Aug. 25, 1953. Class 39.

582,603. Whiskey. Esbeco Distilling Corporation, Stamford, Conn.
Filed Dec. 15, 1948, Serial No. 570,548. Published Aug. 11, 1953. Class 49.

582,604. Electric Switches. R. E. Anderson, Aurora, Ill.
Filed Dec. 31, 1948, Serial No. 571,398. Published Jan. 3, 1950. Class 21.

582,605. Edible Salad and Cooking Oils, Coffee, Canned Fish, Cheese, Etc. Pastene & Co., Inc., New York, N. Y.
Filed Jan. 17, 1949, Serial No. 572,323. Published June 30, 1953. Class 46.

582,606. Men's Dress Shoes. Albert H. Weinbrenner Co., Milwaukee, Wis.
Filed Feb. 21, 1949, Serial No. 574,266. Published June 26, 1951. Class 39.

582,607. Mattresses and Box Springs. Massachusetts Mattress Company, Boston, Mass.
Filed Mar. 9, 1949, Serial No. 575,153. Published Aug. 25, 1953. Class 32.

582,608. Canned Foods—Namely, Calves Tongue, Etc. Armour and Company, Chicago, Ill.
Filed Jan. 13, 1949, Serial No. 575,798. Published Aug. 25, 1953. Class 46.

582,609. Electrical Building Wires. Essex Wire Corporation, Detroit, Mich.
Filed Apr. 29, 1949, Serial No. 577,954. Published Aug. 25, 1953. Class 21.

582,610. Paper Products—Namely, Cake Support Cards, Pan Liners, Paper Board for Boxes Sold in Rolls or Sheets and Backboards for Supporting Articles of Wearing Apparel. Omer J. Smith, doing business as Paper Products Co., Cincinnati, Ohio.
Filed May 2, 1949, Serial No. 578,106. Published Aug. 25, 1953. Class 37.

582,611. Uncooked Cuts of Corned Beef and Uncooked Cuts of Corned Pork. Roberts Turkey Brand Corned Meats, San Francisco, Calif.
Filed June 13, 1949, Serial No. 580,354. Published June 30, 1953. Class 46.

582,612. Electrical Apparatus—Namely, Phonographs and Transcription Players. Califone Corporation, Los Angeles, Calif.
Filed June 18, 1949, Serial No. 580,716. Published Dec. 26, 1950. Class 21.

582,613. Knitted Outer Wear Garments for Women, Misses, and Girls—Namely, Sweaters of All Types, Including Long Sleeved, Short Sleeved, Pullover, Coat Sweaters. Hilb & Co., Inc., Denver, Colo.
Filed Aug. 19, 1949, Serial No. 583,692. Published Nov. 28, 1950. Class 39.

582,614. Pens and Mechanical Pencils. The Holt Pen Company, Crompton, R. I., by change of name from George C. Holt, Inc.
Filed Aug. 26, 1949, Serial No. 584,061. Published Aug. 4, 1953. Class 37.

582,615. Roasted Coffee in Ground or Whole Bean State. William B. Pickering, Jr., Columbus, Ohio.
Filed Sept. 14, 1949, Serial No. 584,834. Published June 5, 1951. Class 46.

582,616. Belts and Suspenders. Aristocrat Leather Products, Inc., New York, N. Y.
Filed Oct. 24, 1949, Serial No. 586,722. Published Apr. 7, 1953. Class 39.

582,617. Flavoring Syrups and Concentrates for Use in Maltless Soft Drinks. National NuGrape Company, Atlanta, Ga.
Filed Dec. 20, 1949, Serial No. 589,133. Published July 24, 1951. Class 45.

582,618. Hand and Power Operated Sprayers, Insecticide Spray Guns, and Compressed Air Sprayers for Domestic and Industrial Purposes. D. B. Smith & Company, Inc., Utica, N. Y.
Filed Dec. 20, 1949, Serial No. 589,686. Published May 20, 1952. Class 23.

582,619. Simulated Golf Game Especially But Not Exclusively Adapted for Indoor Use. Gordon H. Severin, Oklahoma City, Okla.
Filed Dec. 27, 1949, Serial No. 589,993. Published Sept. 1, 1953. Class 22.

582,620. Vehicle Dumping Bodies and Parts Thereof. Anthony Company, Streator, Ill.
Filed Jan. 17, 1950, Serial No. 590,970. Published Mar. 10, 1953. Class 19.

582,621. Sidings of Aluminum. Continental Aluminum Corporation, South Kearny, N. J.
Filed Feb. 7, 1950, Serial No. 592,074. Published July 28, 1953. Class 12.

582,622. Canned Tomatoes, Tomato Paste, Olive Oil, and Cheese. Cedarville Packing Company, Hoboken, N. J.
Filed Mar. 1, 1950, Serial No. 593,219. Published Sept. 1, 1953. Class 46.

582,623. Watches. Zell Bros., Portland, Oreg.
Filed June 7, 1950, Serial No. 598,771. Published Nov. 27, 1951. Class 27.

582,624. Malted Milk Base Powders for Use in Ice Cream Mix. The Dayton Food Products Co., Dayton, Ohio.
Filed June 21, 1950, Serial No. 599,502. Published Nov. 18, 1952. Class 46.

582,625. Roller Skates. D. P. Harris Hardware & Manufacturing Co., Inc., New York, N. Y.
Filed June 22, 1950, Serial No. 599,566. Published Sept. 1, 1953. Class 22.

582,626. Phonograph Styli. General Electric Company, Schenectady, N. Y.
Filed July 26, 1950, Serial No. 601,262. Published Sept. 1, 1953. Class 36.

582,627. Paint Enamels. Arthur C. Mangels Industries, Philadelphia, Pa.
Filed July 27, 1950, Serial No. 601,330. Published Aug. 18, 1953. Class 16.

582,628. Ladies' Coats and Suits. Staple Coat Company, New York, N. Y.
Filed Aug. 10, 1950, Serial No. 602,072. Published July 21, 1953. Class 39.

582,629. Food Ingredient in the Form of a Powder To Be Mixed With Regular Food of Horses, Dogs, and Other Animals and Containing Proteins, Vitamins, and Minerals To Supplement Their Diet. Taft Pharmaceutical Company, Incorporated, New Haven, Conn.
Filed Sept. 7, 1950, Serial No. 603,267. Published Aug. 11, 1953. Class 18.

582,630. Connectors for Electrical Conductors and Other Current Carrying Elements and Parts of the Aforesaid Articles. Interlock Corporation, New York, N. Y.
Filed Sept. 23, 1950, Serial No. 603,929. Published Aug. 25, 1953. Class 21.

582,631. Tanned Leather for Particular Use in Shoes. The Juvenile Shoe Corporation of America, Aurora, Mo.
Filed Dec. 4, 1950, Serial No. 607,252. Published July 7, 1953. Class 1.

582,632. Anti-Friction Ball and Roller Bearings. SKF Industries, Inc., Philadelphia, Pa.
Filed Dec. 12, 1950, Serial No. 607,275. Published June 30, 1953. Class 23.

582,633. Women's and Misses' Hosiery. Seamprufe Incorporated, New York, N. Y.
Filed Dec. 13, 1950, Serial No. 607,644. Published July 28, 1953. Class 39.

582,634. Solutions of Smelling Salts. Nips, Inc., New York, N. Y.
Filed Dec. 16, 1950, Serial No. 607,759. Published Aug. 18, 1953. Class 18.

582,635. Chemical Compounds for Dry Cleaning. The Fry Brothers Co., Cincinnati, Ohio.
Filed Dec. 21, 1950, Serial No. 607,948. Published Aug. 18, 1953. Class 52.

582,636. Plastic Electrical Tape. Johns-Manville Corporation, New York, N. Y.
Filed Dec. 23, 1950, Serial No. 608,043. Published May 26, 1953. Class 21.

582,637. Enzyme Inhibitor for Rectal Application in the Treatment of Intestinal Pathology Such as Ulcerative Colitis and Moist Puritis Ani. The Smith-Dorsey Company, Lincoln, Nebr., assignor to The Wander Company, Chicago, Ill., a corporation of Delaware.
Filed Jan. 6, 1951, Serial No. 608,478. Published Aug. 18, 1953. Class 18.

582,638. Chocolate Flavored Peanut Butter. Nash-Underwood, Inc., Chicago, Ill.
Filed Jan. 12, 1951, Serial No. 608,714. Published June 30, 1953. Class 46.

582,639. Medicinal Preparation Containing Dextroamphetamine Sulfate, Minerals, and Vitamins. J. B. Roerig and Company, Chicago, Ill., assignor to Chas. Pfizer & Co., Inc., New York, N. Y., a corporation of Delaware.
Filed Dec. 28, 1950, Serial No. 609,219. Published Aug. 11, 1953. Class 18.

582,640. Granules Containing Liver, Iron, and Folic Acid. Armour and Company, Chicago, Ill.
Filed Feb. 8, 1951, Serial No. 609,774. Published Aug. 11, 1953. Class 18.

582,641. Pharmaceutical Preparation—Namely, a Bacteriostatic Preparation Containing Two or More Sulphonamides and Penicillin. Charles E. Frosst & Co., Montreal, Quebec, Canada.
Filed Feb. 8, 1951, Serial No. 609,793. Published Aug. 11, 1953. Class 18.

582,642. Industrial Process Instruments for the Control, Recording, or Indication of Process Variables Such as Temperature, Flow of Materials, Pressure, Liquid Level, and so Forth. The Foxboro Company, Foxboro, Mass.
Filed Feb. 9, 1951, Serial No. 609,854. Published Aug. 25, 1953. Class 26.

582,643. Load Transfer Units Having Parts for Embedment in the Adjoining Edge Portions of Adjoining Concrete Slabs. Kelley Manufacturing Company, Houston, Tex.
Filed Jan. 26, 1951, Serial No. 610,040. Published Aug. 18, 1953. Class 12.

582,644. Combined Toothbrush and Water-Deflecting Recessed Handle Which May Be Used as an Aid in Drinking From a Stream of Water. John R. Hunneman, Jr., doing business under the name of Whattaspout Mfg. Co., Woburn, Mass.
Filed Mar. 1, 1951, Serial No. 610,691. Published Aug. 18, 1953. Class 29.

582,645. Wines. Wine Growers Guild, Lodi, Calif.
Filed Mar. 5, 1951, Serial No. 610,882. Published Aug. 11, 1953. Class 47.

582,646. Olive Oil. Angel Camacho Alarcon, Moron de la Frontera, Seville, Spain.
Filed Mar. 7, 1951, Serial No. 610,946. Published Aug. 18, 1953. Class 46.

582,647. Laminated Plastic Sheets, Panels, Strips, Blocks, Tubes, Rods, and Moldings Used for Diverse Purposes. Fiberesin Plastics Company, Oconomowoc, Wis.
Filed Mar. 12, 1951, Serial No. 611,173. Published July 21, 1953. Class 1.

582,648. Cement-Base, Waterproof Coating Compound. Con-Cor Paint Company, Kansas City, Mo.
Filed Mar. 29, 1951, Serial No. 611,942. Published Aug. 18, 1953. Class 16.

582,649. Flux and Solder—Namely, a Combination of Flux and Solder, Which, When Applied to the Metallic Parts To Be Soldered by Brushing, Etc. International Harvester Company, Chicago, Ill.
Filed Apr. 26, 1951, Serial No. 613,171. Published Aug. 18, 1953. Class 14.

582,650. Ornamental Paper Pastry Boards. Lady Mary, Incorporated, Rockingham, N. C.
Filed Apr. 26, 1951, Serial No. 613,174. Published Aug. 25, 1953. Class 37.

582,651. Automotive Clutch Units, Clutch Pressure Assemblies, Clutch Plates, Transmissions, Fluid Drive Units, and Parts Thereof. Replacement Unit Company, Cleveland, Ohio.
Filed Apr. 27, 1951, Serial No. 613,239. Published July 7, 1953. Class 23.

582,652. Styrene Butadiene Copolymer Resins Sold in Dry Form for Use as a Molding Powder and for Dry Compounding With Natural and Synthetic Elastomers, Plasticizers, Other Resins, Dyes, and Pigments. Marbon Corporation, Gary, Ind.
Filed May 2, 1951, Serial No. 613,414. Published Aug. 25, 1953. Class 6.

582,653. Insulated Electrical Connectors. Aircraft-Marine Products Inc., Harrisburg, Pa.
Filed May 15, 1951, Serial No. 613,860. Published Aug. 18, 1953. Class 21.

582,654. Bags; and Linings for Bags, Barrels, Boxes, and Drums. Arkell Safety Bag Company, New York, N. Y.
Filed May 25, 1951, Serial No. 614,332. Published Aug. 18, 1953. Class 2.

582,655. Toilet Tissue and Toilet Paper, Wax Paper, Paper Towels, Shelf Paper, and Paper Napkins. Affiliated Retailers, Inc., New York, N. Y.
Filed June 4, 1951, Serial No. 614,683. Published Aug. 4, 1953. Class 37.

582,656. Nuts Both Shelled and Unshelled and Salted and Unsalted, Raisins, and Edible Seeds—Namely, Pumpkin Seeds and Sunflower Seeds. David Der Hairbedian, doing business under the firm name and style of David & Sons, Fresno, Calif.
Filed June 18, 1951, Serial No. 615,319. Published Aug. 11, 1953. Class 46.

582,657. Men's and Ladies' Shoes. Spiegel, Inc., Chicago, Ill.
Filed June 20, 1951, Serial No. 615,468. Published Aug. 25, 1953. Class 39.

582,658. Analgesic and Gastric Sedative. Edgar A. Ferguson, Jr., Brooklyn, N. Y.
Filed June 25, 1951, Serial No. 615,634. Published Aug. 18, 1953. Class 18.

582,659. Synthetic Resin Composition for Coating and Impregnating Concrete and Porous Metal To Provide a Seal Which Is Resistant to Water, Organic Solvents, Salts, Acids, and Alkalies. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa.
Filed June 27, 1951, Serial No. 615,748. Published Aug. 18, 1953. Class 12.

582,660. Pharmaceutical Products Containing as Basic Ingredient Paraoxypropiophenone or Parahydrooxypropiophenone and Acting as Regulator for the Hypophysis. Laboratoires Laroche Navarron, Levallois-Perret, Seine, France.
Filed July 2, 1951, Serial No. 615,982 Published Aug. 18, 1953. Class 18.

582,661. Furniture—Namely, Dressers, Vanities, Chests, Beds, Chestrobes, Nightstands, Etc. Kent-Coffey Manufacturing Company, Lenoir, N. C.
Filed July 5, 1951, Serial No. 616,105. Published Aug. 25, 1953. Class 32.

582,662. Furniture—Namely, Dressers, Vanities, Chests, Beds, Chestrobes, Nightstands, Chairs, Etc. Kent-Coffey Manufacturing Company, Lenoir, N. C.
Filed July 5, 1951, Serial No. 616,107. Published Aug. 25, 1953. Class 32.

582,663. Automotive Power Plant Testing Apparatus. Sun Electric Corporation, Chicago, Ill.
Filed July 13, 1951, Serial No. 616,459. Published Aug. 25, 1953. Class 26.

582,664. Ladies' Nylon Hosiery. Manuel M. Lihn, doing business as Clementon Hosiery Mill, Clementon, N. J.
Filed July 25, 1951, Serial No. 616,915. Published Aug. 18, 1953. Class 39.

582,665. Static Removing Acrylic Plastic Cleaners or Solutions, De-Icer Boot Removing Solutions, and Prepaint Components Used as Metal Conditioners, Primarily Used for Treating and Conditioning Metal Preparatory to Painting. Cee-Bee Chemical Co., Inc., Los Angeles, Calif.
Filed Aug. 4, 1951, Serial No. 617,336. Published Aug. 18, 1953. Class 6.

582,666. Brake Drums and Resilient Axle Suspensions for Automotive Trucks and Trailers. Reynolds Manufacturing Company, Springfield, Mo.
Filed Aug. 21, 1951, Serial No. 617,931. Published Sept 1, 1953. Class 19.

582,667. Paper Napkins. Ashland Paper Mills, Inc., Ashland, N. H.
Filed Aug. 29, 1951, Serial No. 618,201. Published July 28, 1953. Class 37.

582,668. Medical Preparation for the Treatment and Relief of Piles. George T. Morgan, doing business as Nu-Ay Pile Compound Co., Sharon, Pa.
Filed Aug. 10, 1951, Serial No. 618,905. Published Aug. 11, 1953. Class 18.

582,669. Women's Hosiery. Duchess Hosiery Corporation, New York, N. Y.
Filed Sept. 21, 1951, Serial No. 619,074 Published July 21, 1953. Class 39.

582,670. Trolleys for Conveyors. Jervis B. Webb Company, Detroit, Mich.
Filed Sept. 21, 1951, Serial No. 619,116. Published July 7, 1953. Class 23.

582,671. Typewriter and Adding Machine Ribbons, Carbon Paper, Ink Conducting Wicks and Holders Therefor, and Ink Containing Cartridges. John P. Knight, doing business under the name and style of National Stellar Company, Detroit, Mich.
Filed Sept. 27, 1951, Serial No. 619,300. Published Aug. 18, 1953. Class 11.

582,672. Boots, Shoes, and Slippers, for Men, Women, or Children. Brevitt Shoes Limited, Leicester, England.
Filed Sept. 27, 1951, Serial No. 619,488. Published Aug. 25, 1953. Class 39.

582,673. Kitchenware and Ovenware, etc. Aktiebolaget Rörstrands Porslinsfabriker, Lidkoping, Sweden.
Filed Oct. 9, 1951, Serial No. 619,731. Published July 28, 1953. Class 30.

582,674. Kitchenware and Ovenware, etc. Aktiebolaget Rörstrands Porslinsfabriker, Lidkoping, Sweden.
Filed Oct. 9, 1951, Serial No. 619,732. Published July 28, 1953. Class 30.

582,675. Canned Apples, Including Sliced Apples. Skyland Food Corporation, Denver, Colo.
Filed Oct. 18, 1951, Serial No. 620,173. Published Apr. 29, 1952. Class 46.

582,676. Glazed China Containers for Diffusing a Liquid, Atmospheric Deodorant by Means of a Wick and Sold Empty. Liquid Veneer Corporation, Buffalo, N. Y.
Filed Oct. 24, 1951, Serial No. 620,426. Published July 28, 1953. Class 30.

582,677. Hair Lightening Preparations. Clairol Incorporated, Stamford, Conn.
Filed Nov. 2, 1951, Serial No. 620,803. Published Aug. 18, 1953. Class 51.

582,678. Farm Trailers (Not Motorized). N. V. Nederlandsche Machinefabriek "Artillerie Inrichtingen," Hembrug, Zaandam, Netherlands.
Filed Nov. 9, 1951, Serial No. 621,081. Published Sept. 1, 1953. Class 19.

582,679. Men's Assorted Coats and Pants. Hughes and Hatcher, Inc., Detroit, Mich.
Filed Nov. 15, 1951, Serial No. 621,266. Published Aug. 18, 1953. Class 39.

582,680. Socket Wrenches, Socket Wrench Sets, Socket Wrench Kits Comprising Containers and Sets of Wrenches, Etc. Indestro Manufacturing Corp., Chicago, Ill.
Filed Nov. 15, 1951, Serial No. 621,267. Published June 30, 1953 Class 23.

582,681. Piston Ring Expander Springs. Sealed Power Corporation, Muskegon Heights, Mich.
Filed Nov. 16, 1951, Serial No. 621,336. Published Aug. 25, 1953. Class 35.

582,682. Paper Tissue Handkerchiefs. Marcalus Manufacturing Co. Inc., East Paterson, N. J.
Filed Nov. 20, 1951, Serial No. 621,475. Published Aug. 18, 1953. Class 37.

582,683. Electrical Receptacles and Switch Mountings in Pedestal Bases, Etc. Laboratory Furniture Co., Inc., Mineola, N. Y.
Filed Nov. 24, 1951, Serial No. 621,627. Published Aug. 25, 1953. Class 21.

582,684 Friction Linings for Brakes and Clutches. S. p. A. Fren-Do, Leumann, Italy
Filed Nov. 26, 1951, Serial No. 621,684. Published Aug. 25, 1953. Class 35.

582,685. Centrifugal Machinery for Segregating in a Cyclone Fractions of Liquid Fed Thereto. The Dorr Company, Stamford, Conn.
Filed Dec. 4, 1951, Serial No. 622,071. Published June 30, 1953. Class 23.

582,686. Electric Wires and Cables; Electronic Relays; Etc. Societe Alsacienne de Constructions Mecaniques, Societe Anonyme, Mulhouse, Haut Rhin, France.
Filed Dec. 11, 1951, Serial No. 622,362. Published Aug. 25, 1953. Class 21.

582,687. Canister Sets Consisting of Flour, Sugar, Coffee, and Tea Containers, Etc. Kromex Corporation, Cleveland, Ohio.
Filed Dec. 17, 1951, Serial No. 622,599. Published Aug 18, 1953. Class 2.

582,688. Liquid Type Paint and Varnish Remover. J. F. Kerns Company, Chicago, Ill.
Filed Jan. 2, 1952, Serial No. 623,057. Published Jan. 6, 1953. Class 52.

582,689. Textile Knitting Machines and Parts Thereof. Hemphill Company, Pawtucket, R. I.
Filed Jan. 17, 1952, Serial No. 623,713. Published July 7, 1953. Class 23.

582,690. Preparation for Use on the Hair and Scalp as an Aid in the Removal of Loose Dandruff, Etc. Newbro Manufacturing Company, Atlanta, Ga., assignor to Sulfur-8 Chemical Co., Inc., Brooklyn, N. Y., a corporation of New York.
Filed Jan. 18, 1952, Serial No. 623,774. Published Oct. 28, 1952. Class 51.

582,691. Paper Handkerchiefs. Marcalus Manufacturing Co. Inc., East Paterson, N. J.
Filed Jan. 21, 1952, Serial No. 623,866. Published Aug. 25, 1953. Class 37.

582,692. Hair Rinse. Aladdin Laboratories, Inc., Minneapolis, Minn.
Filed Feb. 5, 1952, Serial No. 624,522. Published July 21, 1953. Class 51.

582,693. Sulphate or Sulphite Paper and Board. Union Bag & Paper Corporation, New York, N. Y.
Filed Feb. 5, 1952, Serial No. 624,576. Published Aug. 4, 1953. Class 37.

582,694. Coated and Uncoated Welding Rods. Victor Equipment Company, San Francisco, Calif.
Filed Feb. 8, 1952, Serial No. 624,714. Published Aug. 25, 1953. Class 14.

582,695. Lacquer Base Putty. Rinshed-Mason Company, Detroit, Mich.
Filed Feb. 11, 1952, Serial No. 624,797. Published Aug. 25, 1953. Class 12.

582,696. Product Known as an Organic Reducing Agent of the Addition Type Which Is the Addition Product of a Soluble Bisulphite and an Aldehyde, Etc. Commonwealth Color & Chemical Company, New York, N. Y.
Filed Feb. 20, 1952, Serial No. 625,256. Published Aug. 25, 1953. Class 52.

582,697. Articles of Jewelry for Personal Wear, Not Including Watches—Namely, Earrings, Oval Manufacturing Company, Inc., New York, N. Y.
Filed Feb. 20, 1952, Serial No. 625,292. Published July 21, 1953. Class 28.

582,698. Insulatory Fitted Coverings Formed of Elastomer Material for Use on Transformers and Related Electrical Units. Aircraft Transformer Corporation, Matawan, N. J.
Filed Feb. 23, 1952, Serial No. 625,384. Published July 28, 1953. Class 21.

582,699. Dandruff Preparation. Dand-Rid'r Company, New York, N. Y.
Filed Feb. 23, 1952, Serial No. 625,406. Published Aug. 25, 1953. Class 51.

582,700. Transparent Plastic Covers for Photographic Prints. Walter A. McCabe, doing business as Walter A. McCabe Company, East Haddam, Conn.
Filed Feb. 23, 1952, Serial No. 625,429. Published Aug. 18, 1953. Class 37.

582,701. Labels Such as Are Employed for Attachment to Packages of Goods, Etc. Paramount Paper Products Company, Omaha, Nebr.
Filed Feb. 25, 1952, Serial No. 625,490. Published Aug. 11, 1953. Class 37.

582,702. Metal Forgings of Ferrous and Non-Ferrous Metals in the Rough and in Semi-Finished Form. Tube Turns, Inc., Louisville, Ky.
Filed Feb. 28, 1952, Serial No. 625,700. Published Sept. 1, 1953. Class 14.

582,703. Fresh Vegetables. Keith Mets, Grower and Shipper, Holtville, Calif.
Filed Feb. 29, 1952, Serial No. 625,740. Published Aug. 11, 1953. Class 46.

582,704. Coronary Vasodilator. The Wander Company, Chicago, Ill.
Filed Feb. 29, 1952, Serial No. 625,777. Published Aug. 4, 1953 Class 18.

582,705. Tobacco and Tobacco Products—Namely, Cigarettes, Smoking Tobacco, Chewing Tobacco, Cigars, and Snuff. Larus & Brother Company, Richmond, Va.
Filed Mar. 3, 1952, Serial No. 625,856. Published Aug. 25, 1953. Class 17.

582,706. Canned Fruits; Canned Vegetables; Fresh Citrus Fruits, Fresh Deciduous Fruits; Fresh Vegetables; Dried Fruits; and Canned Fish. Balfour, Guthrie & Co., Limited, San Francisco, Calif.
Filed Mar. 4, 1952, Serial No. 625,883. Published Aug. 25, 1953. Class 46.

582,707. Paper Products—Namely, Chef's Apron and Cap Set, Table Covering, Etc. Charles L. Rubinstein, doing business as Ruby Products Co., Milwaukee, Wis.
Filed Mar. 20, 1952, Serial No. 626,749. Published July 14, 1953. Class 37.

582,708. Wood Cased Lead Pencils. Mallard Pencil Co. Inc., Georgetown, Ky.
Filed Mar. 21, 1952, Serial No. 626,807. Published Aug. 18, 1953. Class 37.

582,709. Harmonicas. Dimitar Velkov, New York, N. Y. Filed Mar. 22, 1952, Serial No. 626,923. Published Sept. 1, 1953. Class 36.

582,710. Electrical Fire Alarm Signal Stations Having Breakable Glass Panels Held in Place by Fusible Means and Which Panels Are Released Upon Melting of the Fusible Means Due to Abnormal Heat. Morris Levy, doing business as The Faith Co., Philadelphia, Pa.
Filed Mar. 26, 1952, Serial No. 627,072. Published July 28, 1953. Class 21.

582,711. Wheat Flour, Self-Rising Flour, and Feed for Poultry and Livestock. Wilkins-Rogers Milling Company, Incorporated, Washington, D. C.
Filed Mar. 27, 1952, Serial No. 627,160. Published June 16, 1953. Class 46.

582,712. Beer. Harry Mitchell Brewing Company, El Paso, Tex.
Filed Mar. 28, 1952, Serial No. 627,210. Published Aug. 4, 1953. Class 48.

582,713. Whiskey. Schenley Industries, Inc., New York, N. Y.
Filed Mar. 28, 1952, Serial No. 627,224. Published Aug. 4, 1953. Class 49.

582,714. Lipstick and Cream Rouge: Germaine Monteil Cosmetiques Corporation, New York, N. Y.
Filed Apr. 1, 1952, Serial No. 627,398. Published July 21, 1953. Class 51.

582,715. Parenteral Solutions of Electrolytes, Pharmaceuticals, or Sugars in Water for Injection. Cutter Laboratories, Berkeley, Calif.
Filed Apr. 3, 1952, Serial No. 627,498. Published Aug. 11, 1953. Class 18.

582,716. Decorative Metal Table Stands for Holding Flower Pots and Vases. Helen Cole, Inc., New York, N. Y.
Filed Apr. 9, 1952, Serial No. 627,809. Published Aug. 25, 1953. Class 32.

582,717. Hypnotic and Anesthetic Preparations. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Apr. 9, 1952, Serial No. 627,848. Published Aug. 4, 1953. Class 18.

582,718. Instrument That Functions as a Source of Microwave Signals in Such Application as Alignment and Test of Microwave Receivers, Etc. Kay Electric Company, Pine Brook, N. J.
Filed Apr. 11, 1952, Serial No. 627,948. Published Aug. 18, 1953. Class 26.

582,719. Instrument That Is a Narrow-Band Sweeping Oscillator for Use With an Oscilloscope in Defining the Pass Band, Etc. Kay Electric Company, Pine Brook, N. J.
Filed Apr. 11, 1952, Serial No. 627,951. Published Aug. 18, 1953. Class 26.

582,720. Art Needlework Device—Namely, a Plastic Hand Weaving Tool for Forming Rosettes To Be Joined in Making Bedspreads, Doilies, Table Runners, Articles of Clothing, Etc. Anthony J. Ciroll, doing business as Yankee Homecrafts, Medford, Mass.
Filed Apr. 12, 1952, Serial No. 627,996. Published Aug. 18, 1953. Class 40.

582,721. Concrete Construction Forms and Parts for the Forms. Universal Form Clamp Co., Chicago, Ill.
Filed Apr. 18, 1952, Serial No. 628,311. Published Aug. 25, 1953. Class 12.

582,722. Maple Sugar and Maple Syrup, Maple Producers Co-Operative Association, Inc., Gouverneur, N. Y.
Filed Apr. 22, 1952, Serial No. 628,593. Published June 30, 1953. Class 46.

582,723. Electric Soldering Irons and Tips for Electric Soldering Irons. Zokal Soldering Tip Sales, Chicago, Ill.
Filed Apr. 18, 1952, Serial No. 628,318. Published Aug. 18, 1953. Class 21.

582,724. Paper Bags. International Paper Company, New York, N. Y.
Filed Apr. 24, 1952, Serial No. 628,631. Published Aug. 18, 1953. Class 2.

582,725. Pressure Tanks. The Electric Sprayit Company, Sheboygan, Wis.
Filed May 21, 1952, Serial No. 629,994. Published Aug. 18, 1953. Class 2.

582,726. Deodorant Cream. Antonio Hernandez, doing business under the name and style of Kapoot Industries, Los Angeles, Calif.
Filed May 19, 1952, Serial No. 629,894. Published Aug 25, 1953. Class 51.

582,727. Ground Corn for Human Consumption—Namely, Corn Meal. Supreme Feed Mills, also doing business as Supreme Mills, Glasgow, Ky.
Filed May 16, 1952, Serial No. 629,827. Published Aug. 11, 1953. Class 46.

582,728. Insecticides. Koppers Company, Inc., Pittsburgh, Pa.
Filed May 15, 1952, Serial No. 629,738. Published Aug. 25, 1953. Class 6.

582,729. Coffee. Standard Brands Incorporated, New York, N. Y.
Filed May 13, 1952, Serial No. 629,634. Published June 30, 1953. Class 46.

582,730. Coffee. Standard Brands Incorporated, New York, N. Y.
Filed May 13, 1952, Serial No. 629,633. Published June 30, 1953. Class 46.

582,731. Fresh Strawberries and Frozen Fresh Strawberries. California Berry Freezers, Inc., Watsonville, Calif.
Filed May 10, 1952, Serial No. 629,472. Published May 26, 1953. Class 46.

582,732. Tablets Combining Various Sulfa Drugs With Streptomycin for the Prevention and Treatment of Calf Scours and Enteric Conditions. Austin Laboratories, Inc., Buffalo, N. Y.
Filed May 9, 1952, Serial No. 629,414. Published Aug. 11, 1953. Class 18.

582,733. Pulverized Stone-Aggregate Mixture Used for Veneering Surfaces and Being Sculptured on the Job To Resemble Natural Quarried Stone. Forrest R. MacDonald, doing business as Lower Third Supply Company, Alexandria, La.
Filed May 8, 1952, Serial No. 629,373. Published July 21, 1953. Class 12.

582,734. Dials for Rotor Parts of Electrical Apparatus. The George W. Borg Corporation, Delavan, Wis.
Filed May 8, 1952, Serial No. 629,345. Published Aug. 25, 1953. Class 21.

582,735. Machines for Registering and Indicating the Number and Nature of Bets Made on Horse Races and Component Structural Parts Thereof. Automatic Totalisators Limited, Meadowbank, Sydney, New South Wales, Australia.
Filed May 2, 1952, Serial No. 629,083. Published Aug. 25, 1953. Class 26.

582,736. Window Units Including Parts Thereof and Accessories Therefor—Namely, Glass, Sash, Frames, and Hardware. Gate City Sash and Door Company, Fort Lauderdale, Fla.
Filed May 1, 1952, Serial No. 629,012. Published July 28, 1953. Class 12.

582,737. Infants' Crib Pads, Crib Sheets, and Crib Blankets, Made of Flannelet Fabrics. Arkwright Merchandising Corporation, New York, N. Y.
Filed May 1, 1952, Serial No. 628,994. Published Aug. 25, 1953. Class 42.

582,738. Electronic Digital Computers and Delay Lines. Electronic Computer Corporation, New York, N. Y., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware.
Filed Apr. 26, 1952, Serial No. 628,746. Published Aug. 25, 1953. Class 26.

582,739. Constructional Steel Sections, Bars, and Plates. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 24, 1952, Serial No. 628,658. Published Aug. 25, 1953. Class 12.

582,740. Bacitracin for Intramuscular Injection. Commercial Solvents Corporation, New York, N. Y.
Filed May 23, 1952, Serial No. 630,122. Published Aug. 18, 1953. Class 18.

582,741. Solidified After Shaving Lotion, Cologne, and Deodorant. The Lambert Company, doing business as John Hudson Moore Co., Jersey City, N. J., and New York, N. Y.
Filed May 23, 1952, Serial No. 630,137. Published July 28, 1953. Class 51.

582,742. Non-Effervescent Bottled Mineral Spring Water. Flamingo Water Company, also doing business as Flamingo Spring Water Company, New Smyrna Beach, Fla.
Filed May 28, 1952, Serial No. 630,406. Published Aug. 11, 1953. Class 45.

582,743. Resin Containing Composition for Coating Metal Surfaces To Protect Them Against Corrosion or To Provide a Corrosion Resistant Seal. Eutectic Welding Alloys Corporation, New York, N. Y.
Filed May 29, 1952, Serial No. 630,486. Published Aug. 18, 1953. Class 16

582,744. Manually Resettable Electric Circuit Interrupter Having an Automatic Thermal Release Activated by the Circuit Current. Mechanical Products, Inc., Jackson, Mich.
Filed June 4, 1952, Serial No. 630,715. Published Aug. 25, 1953. Class 21.

582,745. Malt Vinegar, Steak Sauce, Worcestershire Sauce, Hot Dog Sauce, Sea Food Sauce, Mushroom Sauce, and French Dressing. Allen Foods, Inc., St. Louis, Mo.
Filed June 5, 1952, Serial No. 630,743. Published Aug. 25, 1953. Class 46.

582,746. Slushing, Defibering, and Refining Machine for Preparing Paper Stock. The Cowles Company, Cayuga, N. Y.
Filed June 5, 1952, Serial No. 630,763. Published July 7, 1953. Class 23.

582,747. Articles Made of Paper—Namely, Tissue, Handkerchiefs, Sputum Napkins, Tray Covers and Napkins, and Toilet Tissue. Will Ross, Inc., Milwaukee, Wis.
Filed June 5, 1952, Serial No. 630,797. Published Aug. 4, 1953. Class 37.

582,748. Nets for Use in the Fishing Industry. Drummondville Cotton Company, Limited, Montreal, Quebec, Canada.
Filed June 6, 1952, Serial No. 630,835. Published Sept. 1, 1953. Class 22.

582,749. Children's Suits and Dresses. Playnurse, Inc., Baltimore, Md.
Filed June 7, 1952, Serial No. 630,910. Published Aug. 18, 1953. Class 39.

582,750. Therapeutic Drug Consisting Substantially of Isonicotinic Acid Hydrazide. Simpson Laboratories, Inc., New York, N. Y.
Filed June 9, 1952, Serial No. 630,967. Published Aug. 18, 1953. Class 18.

582,751. Jewelry—Namely, Pins, Brooches, Earrings, and Rings. B. Emerson, Inc., Washington, D. C.
Filed June 12, 1952, Serial No. 631,098. Published July 21, 1953. Class 28.

582,752. Pharmaceutical Preparations for Use as Disinfectants. Cilag Aktiengesellschaft, Schaffhausen, Switzerland.
Filed June 14, 1952, Serial No. 631,202. Published Oct. 28, 1952. Class 18.

582,753. Plain and Paper-Backed Foil Products—Namely, Embossed Wrapping Paper, Book Covers, and Wrappers. Foilcraft Printing Corporation, Brooklyn, N. Y.
Filed June 14, 1952, Serial No. 631,207. Published Aug. 4, 1953. Class 37.

582,754. Synthetic Gems Cut and Polished for Use in Manufacturing Jewelry. Exquisite Gem Company, Chicago, Ill.
Filed June 17, 1952, Serial No. 631,279. Published May 19, 1953. Class 28.

582,755. Stains and Enamels. Benjamin Moore & Co., New York, N. Y.
Filed June 18, 1952, Serial No. 631,362. Published Aug. 18, 1953. Class 16.

582,756. Water Soluble Nitrogenous Fraction of Sugar Beet Juice, Including Betaine, Used as an Animal Feed Supplement. International Minerals & Chemical Corporation, Chicago, Ill.
Filed June 2, 1952, Serial No. 631,391. Published Aug. 11, 1953. Class 18.

582,757. Plywood Sheet Material Composed of Built-Up Wood, Etc. The Davis Plywood Corporation, Cleveland, Ohio.
Filed June 19, 1952, Serial No. 631,405. Published July 28, 1953. Class 12.

582,758. Concentrate Used in Making Maltless Soft Drinks. D. E. Winebrenner Co., Inc., Hanover, Pa.
Filed June 19, 1952, Serial No. 631,453. Published July 14, 1953. Class 45.

582,759. Pearl Necklaces, Pearl Brooches, Pearl Bracelets, and Pearl Earrings; also Necklaces, Brooches, Earrings, and Bracelets. Weinreich Brothers Company, New York, N. Y.
Filed June 24, 1952, Serial No. 631,704. Published July 21, 1953. Class 28.

582,760. Paints and Varnishes. J. C. Hempel's Skibsfarvefabrik A/S, Copenhagen, Denmark.
Filed June 25, 1952, Serial No. 631,735. Published Aug. 18, 1953. Class 16.

582,761. School Fillers and Tablets, Composition Books, and Pencils. Walter Paper Company, Inc., Miami, Fla.
Filed June 25, 1952, Serial No. 631,769. Published July 14, 1953. Class 37.

582,762. Ceramic and Clay Tiles. Architectural Tiling Company, Inc., Keyport, N. J., and New York, N. Y.
Filed June 26, 1952, Serial No. 631,776. Published July 28, 1953. Class 12.

582,763. Non-Alcoholic, Maltless, Flavored Concentrate Used in Mixing Alcoholic and Non-Alcoholic Drinks. Sunway Fruit Products, Chicago, Ill.
Filed June 26, 1952, Serial No. 631,823. Published Aug. 4, 1953. Class 45.

582,764. Weighing Scales of the Platform Type for Home Use. The Brearley Company, Rockford, Ill.
Filed June 27, 1952, Serial No. 631,846. Published Aug. 25, 1953. Class 26.

582,765. Perfume. Suzanne Laboratories, Inc., Paterson, N. J.
Filed June 27, 1952, Serial No. 631,899. Published July 28, 1953. Class 51.

582,766. Electric Insulators and Electric Condensers. Lapp Insulator Company, Inc., Leroy, N. Y.
Filed June 30, 1952, Serial No. 631,992. Published Aug. 25, 1953. Class 21.

582,767. Laminations for Electro-Magnetic Apparatus, Permanent Magnets, Permanent Magnet Assemblies, Lamination Assemblies, Electrical Magnets, and Wound Cores. Thomas & Skinner Steel Products Company, Indianapolis, Ind.
Filed July 9, 1952, Serial No. 632,334. Published Aug. 25, 1953. Class 21.

582,768. Penicillin-Containing Antibacterial Preparations. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed July 11, 1952, Serial No. 632,451. Published Aug. 25, 1953. Class 18.

582,769. Synthetic Woods, Such as Hardboards. United States Plywood Corporation, New York, N. Y.
Filed July 15, 1952, Serial No. 632,576. Published July 21, 1953. Class 12.

582,770. Electrically Sensitive Speaker Apparatus for Attachment to Clock Radios. Bulova Watch Company, Inc., New York, N. Y.
Filed July 17, 1952, Serial No. 632,656. Published Aug. 25, 1953. Class 21.

582,771. Liquid Medicinal Preparation Used for Ear Medication. The G. F. Harvey Company, Saratoga Springs, N. Y.
Filed July 24, 1952, Serial No. 632,707. Published Jan. 20, 1953. Class 18.

582,772. Work-Books—Namely, Partially Printed Student Testing and Practice Publications. South-Western Publishing Co., Cincinnati, Ohio.
Filed July 19, 1952, Serial No. 632,801. Published Aug. 18, 1953. Class 37.

582,773. Electronic Sound Recording, Amplifying, Playing and Play-Back Apparatus, Loud Speakers, Phonograph Turn Tables, and Electronic Pickups. The Audak Company, Inc., New York, N. Y.
Filed July 22, 1952, Serial No. 632,864. Published Aug. 25, 1953. Class 21.

582,774. Polystyrene. Koppers Company, Inc., Pittsburgh, Pa.
Filed July 24, 1952, Serial No. 632,991. Published Aug. 25, 1953. Class 6.

582,775. Scotch Whisky. MacDonald, Greenlees Limited, Leith, Edinburgh, Scotland.
Filed July 31, 1952, Serial No. 633,313. Published Aug. 11, 1953. Class 49.

582,776. Wrist Watches. Meyer Robbin, doing business as Robbin Products, Los Angeles, Calif.
Filed Aug. 4, 1952, Serial No. 633,467. Published July 28, 1953. Class 27.

582,777. Television Cathode Ray Tubes. Claremont Laboratories, Inc., Maspeth, N. Y.
Filed Aug. 5, 1952, Serial No. 633,489. Published Aug. 25, 1953. Class 21.

582,778. Mattresses. Serta Associates, Inc., Chicago, Ill., and Wilmington, Del.
Filed Aug. 13, 1952, Serial No. 633,880. Published Aug. 25, 1953. Class 32.

582,779. Cotton Piece Goods. Arthur Beir & Co., Inc., New York, N. Y.
Filed Aug. 14, 1952, Serial No. 633,913. Published Sept. 1, 1953. Class 42.

582,780. Scenting and Softening Oil for Bath Water. Swiss Pine Importing Co., Inc., New York, N. Y.
Filed Aug. 15, 1952, Serial No. 634,009. Published July 21, 1953. Class 51.

582,781. Fresh Citrus Fruits. Arizona Citrus Growers, Phoenix, Ariz.
Filed Aug. 18, 1952, Serial No. 634,069. Published May 26, 1953. Class 46.

582,782. Kraft, Sulphite, and Glassine Paper, Either Waxed or Unwaxed. Riegel Paper Corporation, New York, N. Y.
Filed Aug. 22, 1952, Serial No. 634,344. Published July 14, 1953. Class 37.

582,783. Polymeric Vinyl Compounds. Badische Anilin- & Soda-Fabrik (I. G. Farbenindustrie Aktiengesellschaft "In Auflösung"), Ludwigshafen (Rhine), Germany.
Filed Aug. 25, 1952, Serial No. 634,395. Published Aug. 25, 1953. Class 6.

582,784. Finger Rings With Precious and Semi-Precious Stones and Bracelets of Precious and Semi-Precious Metal. Untermeyer, Robbins & Co., New York, N. Y.
Filed Aug. 22, 1952, Serial No. 634,430. Published July 21, 1953. Class 28.

582,785. Forgings of Ferrous and Nonferrous Metals. Webb Forging Company, Belleville, Mich.
Filed Aug. 21, 1952, Serial No. 634,433. Published Sept. 1, 1953. Class 14.

582,786. Pencils. L. & C. Hardtmuth, Inc., Bloomsbury, N. J.
Filed Aug. 26, 1952, Serial No. 634,465. Published July 28, 1953. Class 37.

582,787. Airplanes and Structural Parts Therefor. Lockheed Aircraft Corporation, Burbank, Calif.
Filed Aug. 26, 1952, Serial No. 634,475. Published Aug. 25, 1953. Class 19.

582,788. Watches, Chronometers With Automatic Calendar. Stolz Freres, S. A. Fabrique D'Horlogerie Angelus, Le Locle, Switzerland.
Filed Aug. 26, 1952, Serial No. 634,499. Published July 28, 1953. Class 27.

582,789. Whiskey. Jack Daniel Distillery, Lem Motlow, Prop., Inc., Lynchburg, Tenn.
Filed Aug. 28, 1952, Serial No. 634,575. Published July 28, 1953. Class 49.

582,790. Cements—Namely, Portland Cement, Oil-Well Cement, Quick-Setting Cement, Masonry Cement, and Plastic Quick-Setting Cement for Forming Waterproof Concrete. Southwestern Portland Cement Company, Los Angeles, Calif.
Filed Aug. 28, 1952, Serial No. 634,612. Published July 28, 1953. Class 12.

582,791. Electrically Driven Apparatus Comprising a Continuous Conveyor Belt Having a Succession of Food Supporting Carriers for Serving Food in Restaurants by Moving the Food From the Kitchen to the Point of Consumption by the Customer. Cafa-Roll, Inc., Carthage, Mo.
Filed Aug. 30, 1952, Serial No. 634,681. Published July 7, 1953. Class 23.

582,792. Bulk Feed Supplement for Livestock and Poultry Whose Principal Ingredients Are the Antibiotic Bacitracin or Its Methylene Disalicylic Acid Derivative Fermentation By-Products, and an Inert Filler. S. B. Penick & Company, New York, N. Y.
Filed Aug. 30, 1952, Serial No. 634,706. Published Aug. 18, 1953. Class 18.

582,793. Acrylic Plastic in Liquid Form Used for Waterproofing, Protecting, and Preserving Masonry, Metals, Glass, Leather, and Paper. Murray P. Poznak, doing business as Acrolite International, Elizabeth, N. J.
Filed Sept. 5, 1952, Serial No. 634,911. Published Aug. 18, 1953. Class 16.

582,794. Pharmaceutical Preparations Which Supply Nutritional Needs, Etc. Mead Johnson & Company, Evansville, Ind.
Filed Sept. 8, 1952, Serial No. 634,985. Published Aug. 18, 1953. Class 18.

582,795. Hosiery for Women. George Aldor Co., Inc., New York, N. Y.
Filed Sept. 9, 1952, Serial No. 635,016. Published July 28, 1953. Class 39.

582,796. Medicinal Preparation—Namely, a Liver and Iron Vitamin in Capsule Form. Metz Pharmacal Company, Linden, N. J.
Filed Sept. 9, 1952, Serial No. 635,046. Published June 9, 1953. Class 18.

582,797. Rubber Covered Game Balls—Namely, Basketballs, Footballs, Volley Balls, Playground Balls, Soft Balls, and Baseballs. Sport Products, Inc., Cincinnati, Ohio, now by change of name MacGregor Sport Products Inc., a corporation of Ohio.
Filed Sept. 9, 1952, Serial No. 635,065. Published Sept. 1, 1953. Class 22.

582,798. Preparation for the External Treatment of Muscular Aches and Pains, for Tired and Burning Feet, and as an Inhalant. Capital Drug Company, doing business as Pope Laboratories, Augusta, Maine.
Filed Sept. 11, 1952, Serial No. 635,120. Published Aug. 18, 1953. Class 18.

582,799. Hair Shampoo. Associated Brands, Inc., Brooklyn, N. Y.
Filed Sept. 13, 1952, Serial No. 635,213. Published Aug. 25, 1953. Class 52.

582,800. Hair Shampoo. Associated Brands, Inc., Brooklyn, N. Y.
Filed Sept. 13, 1952, Serial No. 635,214. Published Aug. 25, 1953. Class 52.

582,801. Mint-Flavoured Candy. John Mackintosh & Sons Limited, Halifax, England.
Filed Sept. 13, 1952, Serial No. 635,228. Published May 26, 1953. Class 46.

582,802. Collapsible Cardboard Insert for Packing Boots in Boxes. H. J. Justin and Sons, Inc., Fort Worth, Tex.
Filed Sept. 15, 1952, Serial No. 635,266. Published Aug. 18, 1953. Class 2.

582,803. Ice Cream Cones. The Maryland Baking Company, Baltimore, Md.
Filed Sept. 19, 1952, Serial No. 635,483. Published Aug. 18, 1953. Class 46.

582,804. Envelope Type Merchandise Cases Made of Plastic or Glassine Material. Rena R. Taussig, Chicago, Ill.
Filed Sept. 19, 1952, Serial No. 635,499. Published Aug. 18, 1953. Class 2.

582,805. Wheeled Container for Receiving Child's Toys for Transport or Storage. Kalasteel Products Company, Inc., Kalamazoo, Mich.
Filed Sept. 20, 1952, Serial No. 635,538. Published Aug. 25, 1953. Class 2.

582,806. Dairy Feeds. The Park and Pollard Company, Inc., Buffalo, N. Y.
Filed Sept. 25, 1952, Serial No. 635,783. Published May 26, 1953. Class 46.

582,807. Blood Grouping Serums. The Blood Grouping Laboratory of Boston, Inc., Boston, Mass.
Filed Sept. 27, 1952, Serial No. 635,869. Published Aug. 11, 1953. Class 18.

582,808. Carbon Paper, Writing and Drawing Ink, Typewriter Ribbons, Rubber Stamp Pads, Duplicating Ink, White Photoprint Ink. A. W. Faber-Castell Pencil Co., Inc., Newark, N. J., assignor to A. W. Faber-Castell, Stein bei Nuremberg, West Germany, a company of West Germany.
Filed Dec. 5, 1952, Serial No. 639,027. Published Aug. 18, 1953. Class 11.

582,809. Paper Adhesive Strips to be Applied to the Forehead to Discourage Frowning. Le Bon-Carew, Hollywood, Calif.
Filed Dec. 5, 1952, Serial No. 639,058. Published Aug. 25, 1953. Class 44.

582,810. Textile Fabrics Wholly of Wool and in Substantial Part of Wool Combined With Cotton and Synthetic Fibres. Carwan Woolen Corporation, New York, N. Y.
Filed Dec. 9, 1952, Serial No. 639,209. Published Sept. 1, 1953. Class 42.

582,811. Serum for the Control of Canine and Fox Distemper, Infectious Canine Hepatitis, and Fox Encephalitis. Allied Laboratories, Inc., Kansas City, Mo.
Filed Dec. 11, 1952, Serial No. 639,303. Published Aug. 11, 1953. Class 18.

582,812. Bath Oil, Liquid Skin Balm, and Cream Deodorant. Better Brushes, Incorporated, Palmer, Mass.
Filed Dec. 13, 1952, Serial No. 639,412. Published Aug. 25, 1953. Class 51.

582,813. Women's and Misses' Hosiery. The Mayer Company, Inc., also known as The Mayer Co. Inc., New York, N. Y.
Filed Dec. 13, 1952, Serial No. 639,432. Published July 28, 1953. Class 39.

582,814. Ironing Board Covers and Clothes Pins. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,496. Published Sept. 1, 1953. Class 24.

582,815. Umbrellas, Parasols, and Canes. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,505. Published Aug. 18, 1953. Class 41.

582,816. Living Room Furniture—Namely, Sofas, Loveseats, Sectional Loveseats, Upholstered Chairs, Etc. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,517. Published Aug. 25, 1953. Class 32.

582,817. Perfumes and Toilet Waters. Robert P. Johns, New York, N. Y.
Filed Dec. 16, 1952, Serial No. 639,572. Published Aug. 25, 1953. Class 51.

582,818. Cleaning Solvent for Refrigeration Equipment. Ansul Chemical Company, Marinette, Wis.
Filed Dec. 17, 1952, Serial No. 639,605. Published Aug. 25, 1953. Class 52.

582,819. Waterproof Paper for Sheathing, Lining, Insulating, and General Building Purposes. Union Bag & Paper Corporation, New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,676. Published Aug. 25, 1953. Class 12.

582,820. Chemo-Therapeutic Agent Useful in the Treatment of Protosoan Disease Including Amebic Dysentery and Malaria and Other Infectious Diseases Caused by Bacteria and Virus. Parke, Davis & Company, Detroit, Mich.
Filed Dec. 18, 1952, Serial No. 639,713. Published Aug. 11, 1953. Class 18.

582,821. Boxed Writing Paper and Correspondence Envelopes and Combination Packages of Sheet Writing Paper and Correspondence Envelopes. Lakeside Central Company, Chicago, Ill.
Filed Dec. 19, 1952, Serial No. 639,758. Published Aug. 4, 1953. Class 37.

582,822. Cosmetics for Ladies—Namely, Lipsticks, Rouges, Perfumes, Colognes, Face Powders, Deodorants, Etc. Stanley Home Products, Inc., Westfield, Mass.
Filed Dec. 19, 1952, Serial No. 639,789. Published Aug. 25, 1953. Class 51.

582,823. Vitamin Capsules. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 20, 1952, Serial No. 639,837. Published Aug. 18, 1953. Class 18.

582,824. Medicinal Tonic Recommended for Persons in Weak and Run-Down Condition, Nursing Mothers, Aged Persons, Delicate Children, and Convalescents. S. Pfeiffer Manufacturing Co., St. Louis, Mo.
Filed Dec. 26, 1952, Serial No. 640,049. Published Aug. 18, 1953. Class 18.

582,825. Automobiles, Motor Cycles, Motor Scooters, Bicycles, and Parts Thereof. Innocenti Soc. Generale per l'Industria Metallurgica e Meccanica, Milan, Italy.
Filed Nov. 19, 1952, Serial No. 640,091. Published Aug. 4, 1953. Class 19.

582,826. Distilled Alcoholic Liqueur. The Drambuie Liqueur Co. Ltd., Edinburgh, Scotland.
Filed Dec. 29, 1952, Serial No. 640,110. Published Aug. 18, 1953. Class 49.

582,827. Porch Enclosure Assemblies Comprised of Window Frames, Etc. Self Storing Window Company, Inc., Minneapolis, Minn.
Filed Dec. 29, 1952, Serial No. 640,132. Published Aug. 25, 1953. Class 12.

582,828. Textile Rugs and Carpets. White Carpet Company, Oshkosh, Wis.
Filed Dec. 30, 1952, Serial No. 640,180. Published Sept. 1, 1953. Class 42.

582,829. Textile Rugs and Carpets. Waite Carpet Company, Oshkosh, Wis.
Filed Dec. 30, 1952, Serial No. 640,181. Published Sept. 1, 1953. Class 42.

582,830. Hosiery for Boys. Feldan Brothers, New York, N. Y.
Filed Dec. 31, 1952, Serial No. 640,202. Published Aug. 25, 1953. Class 39.

582,831. Analgesic Cream. Whitehall Pharmacal Company, New York, N. Y.
Filed Dec. 31, 1952, Serial No. 640,240. Published Aug. 18, 1953. Class 18.

582,832. Textile Piece Goods Made of Cotton, Nylon, Rayon, Silk, and Wool. The Harodite Finishing Company, Inc., North Dighton, Mass.
Filed Jan. 6, 1953, Serial No. 640,398. Published Sept. 1, 1953. Class 42.

582,833. Beer. Pittsburgh Brewing Company, Pittsburgh, Pa.
Filed Jan. 8, 1953, Serial No. 640,525. Published Aug. 4, 1953. Class 48.

582,834. Window Shades. Breneman-Hartshorn Inc., Cincinnati, Ohio.
Filed Jan. 12, 1953, Serial No. 640,601. Published Aug. 25, 1953. Class 32.

582,835. Canned Dog and Cat Food, Containing Meat By-Products, Cracked Hulled Barley, Bran, Fresh Carrots, Soya Grits, and Salt, With Added Water. Marco Pet Food Co., Huntington Park, Calif.
Filed Jan. 12, 1953, Serial No. 640,641. Published May 26, 1953. Class 46.

582,836. Canned Dog and Cat Food, Containing Water, Meat Meal, Barley, Meat By-Products, Salt, and Garlic. Marco Pet Food Co., Huntington Park, Calif.
Filed Jan. 12, 1953, Serial No. 640,642. Published May 26, 1953. Class 46.

582,837. Paper Toilet Tissue. American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill.
Filed Jan. 13, 1953, Serial No. 640,662. Published Aug. 4, 1953. Class 37.

582,838. Dermatological Preparation. Mathieson Chemical Corporation, New York, N. Y.
Filed Jan. 13, 1953, Serial No. 640,685. Published Aug. 25, 1953. Class 18.

582,839. Pharmaceutical Preparation Used for Relief of Hyperacidity of the Stomach and Gas on the Stomach. Reclu Sales Company, Vancouver, British Columbia, Canada.
Filed Jan. 14, 1953, Serial No. 640,758. Published Aug. 11, 1953. Class 18.

582,840. Leather Shoes for Men, Women, and Children. Mannah N. Shrago, Goldsboro, N. C.
Filed Jan. 14, 1953, Serial No. 640,762. Published Aug. 25, 1953. Class 39.

582,841. Internal Medical Preparation for the Treatment of Rheumatism, Neuritis, and Arthritis. Richard L. Spencer, East Mansfield, Ohio.
Filed Jan. 15, 1953, Serial No. 640,815. Published Aug. 18, 1953. Class 18.

582,842. Rice and Tea. Frank M. Nonaka, doing business as F. M. Nonaka & Co., San Francisco, Calif.
Filed May 3, 1952, Serial No. 640,890. Published May 26, 1953. Class 46.

582,843. Light-Sensitive Electro-Mechanical Switch Used for Automatically Turning on and off an Electric Circuit or Current, as for Automatically Lighting and Extinguishing Street Lights. Micro Balancing, Incorporated, Garden City Park, N. Y.
Filed Jan. 19, 1953, Serial No. 640,948. Published Aug. 25, 1953. Class 21.

582,844. Paint in Paste Form for Exterior and Interior Use. American-Marietta Company, Chicago, Ill.
Filed Jan. 21, 1953, Serial No. 640,995. Published July 7, 1953. Class 16.

582,845. Men's Hosiery. Bear Brand Hosiery Co., Chicago, Ill.
Filed Jan. 21, 1953, Serial No. 641,000. Published July 28, 1953. Class 39.

582,846. Medicine Cabinets Used in the Bathroom of the Home. Atkins Plastic Products Co., New York, N. Y.
Filed Jan. 26, 1953, Serial No. 641,263. Published Aug. 25, 1953. Class 32.

582,847. Chemical Preparations To Be Used for Photographic Developers. Ergol Photochemical Research Limited, London, England.
Filed Jan. 26, 1953, Serial No. 641,284. Published Aug. 18, 1953. Class 6.

582,848. Ladies' Hosiery. Millway Knitting Mills, Inc., Millway, Pa.
Filed Jan. 26, 1953, Serial No. 641,318. Published Aug. 18, 1953. Class 39.

582,849. Electrical Cutting, Gouging, Heating, and Blasting Tool in the Nature of a Covered Di-Polar Electrode. Eutectic Welding Alloys Corporation, New York, N. Y.
Filed Jan. 27, 1953, Serial No. 641,374. Published Aug. 25, 1953. Class 21.

582,850. Watches and Parts of Watches. Vendome Watch Vve. M. Gurtner, Corcelles, Switzerland.
Filed Jan. 27, 1953, Serial No. 641,404. Published July 28, 1953. Class 27.

582,851. Printed Forms. American Lithofold Corporation, St. Louis, Mo.
Filed Jan. 28, 1953, Serial No. 641,418. Published Aug. 11, 1953. Class 37.

582,852. Magnetic Sound Recording and Playback Apparatus and Parts Thereof. Amplifier Corporation of America, New York, N. Y.
Filed Jan. 28, 1953, Serial No. 641,421. Published Aug. 25, 1953. Class 21.

582,853. Women's Shoes of Leather and Fabric. W. B. Coon Company, Rochester, N. Y.
Filed Jan. 28, 1953, Serial No. 641,433. Published Aug. 25, 1953. Class 39.

582,854. Women's Shoes of Leather and Fabric. W. B. Coon Company, Rochester, N. Y.
Filed Jan. 28, 1953, Serial No. 641,434. Published Aug. 25, 1953. Class 39.

582,855. Medical Preparation—Namely, a Vaginal Insert Tablet for Treatment of Trichomonas and Other Vaginal Infections. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed Jan. 30, 1953, Serial No. 641,570. Published July 28, 1953. Class 18.

582,856. Combination Child's High Chair and Walker. The Baby Scope Company, Inc., Los Angeles, Calif.
Filed Feb. 2, 1953, Serial No. 641,598. Published Aug. 25, 1953. Class 32.

582,857. Electrically-Operated Portable Spraying Apparatus for Paint and Similar Liquid Substances and Parts and Attachments Therefor. Portable Electric Tools, Inc., Chicago, Ill.
Filed Feb. 2, 1953, Serial No. 641,637. Published Aug. 25, 1953. Class 21.

582,858. Wines. Schenley Industries, Inc., also doing business as Roma Wine Company, doing business as Triangle Vineyards, New York, N. Y.
Filed Feb. 3, 1953, Serial No. 641,695. Published Aug. 18, 1953. Class 47.

582,859. Church Garments Consisting of Vestments, Albs, Surplices, Rochets, Mass Linens, Cinctures, Vestment Covers, Communion Veils, and Confirmation Veils. Harrison Brothers, New York, N. Y.
Filed Feb. 4, 1953, Serial No. 641,724. Published Aug. 25, 1953. Class 39.

582,860. Soil Conditioner. Rumianca, S. p. A., Turin, Italy.
Filed Feb. 4, 1953, Serial No. 641,744. Published Aug. 25, 1953. Class 10.

582,861. Exchangeable Rubber Heels. Charles Sartori, doing business as Sartori & Berger, Hamburg, Germany.
Filed Feb. 4, 1953, Serial No. 641,745. Published Aug. 4, 1953. Class 39.

582,862. Chewing Gum. Wm. Wrigley Jr. Company, Chicago, Ill.
Filed Feb. 5, 1953, Serial No. 641,819. Published May 26, 1953. Class 46.

582,863. Pens and Pencils. Eversharp, Inc., Chicago, Ill.
Filed Feb. 6, 1953, Serial No. 641,833. Published July 21, 1953. Class 37.

582,864. Face Cream. J. Strickland & Co., Memphis, Tenn.
Filed Feb. 6, 1953, Serial No. 641,870. Published July 14, 1953. Class 51.

582,865. Gaskets Composed of Rubber, Synthetic Rubber, Plastic, and Combinations Thereof. Victaulic Company of America, Union, N. J.
Filed Feb. 6, 1953, Serial No. 641,877. Published Aug. 25, 1953. Class 35.

582,866. Preparation Comprising in Combination Androgenic Hormones, Etc. Casimir Funk Laboratories, Inc., New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,906. Published Aug. 11, 1953. Class 18.

582,867. Preparation Comprising in Combination Estrogenic Hormones, Etc. Casimir Funk Laboratories, Inc., New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,908. Published Aug. 11, 1953. Class 18.

582,868. Wall Plates for Electrical Switches. Sierra Electric and Manufacturing Company, Los Angeles, Calif.
Filed Feb. 9, 1953, Serial No. 641,981. Published Aug. 25, 1953. Class 21.

582,869. Coal Tar Colors. Ciba Limited, Basel, Switzerland.
Filed Feb. 10, 1953, Serial No. 642,013. Published Aug. 18, 1953. Class 6.

582,870. Vanilla Extract for Food Purposes. Eskimo Pie Corporation, Bloomfield, N. J.
Filed Feb. 10, 1953, Serial No. 642,025. Published Aug. 25, 1953. Class 46.

582,871. Whiskey. Schenley Distillers, Inc., New York, N. Y.
Filed Feb. 10, 1953, Serial No. 642,050. Published July 28, 1953. Class 49.

582,872. Candy. Horseshoes, Inc., New York, N. Y.
Filed Feb. 11, 1953, Serial No. 642,077. Published Aug. 11, 1953. Class 46.

582,873. Cotton Piece Goods. Wamsutta Mills, New Bedford, Mass.
Filed Feb. 11, 1953, Serial No. 642,102. Published Sept. 1, 1953. Class 42.

582,874. Medicinal Preparation in Liquid Form for Replacing Body Fluids and Supplying Necessary Vitamins by Venoclysis. Abbott Laboratories, North Chicago, Ill.
Filed Feb. 12, 1953, Serial No. 642,118. Published Aug. 11, 1953. Class 18.

582,875. Diaper Rash Ointment. Foley & Company, Chicago, Ill.
Filed Feb. 12, 1953, Serial No. 642,135. Published Aug. 11, 1953. Class 18.

582,876. Sheets and Pillow Cases. Naumkeag Steam Cotton Company, Salem, Mass.
Filed Feb. 12, 1953, Serial No. 642,155. Published Sept. 1, 1953. Class 42.

582,877. Line of Injectable Mineral Salt, Alcohol, and Glucose Solutions for Maintaining Fluid and Electrolyte Balance. Abbott Laboratories, North Chicago, Ill.
Filed Feb. 16, 1953, Serial No. 642,252. Published Aug. 11, 1953. Class 18.

582,878. Absorbent Body Impregnated With a Perfumed Air Deodorant. Jules Saman, doing business under the name and style of Car-Freshner Co., Watertown, N. Y.
Filed Feb. 17, 1953, Serial No. 642,372. Published Aug. 25, 1953. Class 6.

582,879. Games Played With Sets of Building Blocks of Varied Shapes. G. W. D'Arcey Co., San Jose, Calif.
Filed Feb. 18, 1953, Serial No. 642,391. Published Sept. 1, 1953. Class 22.

582,880. Check Register Forms and Pocket Filing Sheets for Ledgers. Rand McNally & Company, Skokie, Ill.
Filed Feb. 19, 1953, Serial No. 642,491. Published Aug. 11, 1953. Class 37.

582,881. Paperboard Boxes Containing a Serving Tray and Cups Made of Either Paper, Cardboard, or Plastic, for Prepared Food Packaging and Handling. Walking Meal, Inc., Erie, Pa.
Filed Feb. 19, 1953, Serial No. 642,502. Published Aug. 18, 1953. Class 2.

582,882. Children's Boots, Shoes, and Slippers Made of Leather, Fabric, Rubber, and Combinations of Said Materials. R. H. Fyfe & Co., Detroit, Mich.
Filed Feb. 2, 1953, Serial No. 642,512. Published Aug. 4, 1953. Class 39.

582,883. Medical Preparation in Tablet Form for Use in Treatment of Asthma and Hay Fever. Drug Specialties, Inc., Winston-Salem, N. C.
Filed Feb. 20, 1953, Serial No. 642,531. Published July 28, 1953. Class 18.

582,884. Antihistamine-Analgesic Preparation in Tablet Form, Etc. The Harrower Laboratory, Inc., Jersey City, N. J.
Filed Feb. 20, 1953, Serial No. 642,548. Published Aug. 25, 1953. Class 18.

582,885. Vodka. The American Distilling Company, doing business as Willow Springs Distilling Company, New York, N. Y.
Filed Feb. 24, 1953, Serial No. 642,591. Published Aug. 11, 1953. Class 49.

582,886. Whiskey. Schenley Distillers, Inc., doing business as I. W. Harper Distilling Company, New York, N. Y.
Filed Feb. 24, 1953, Serial No. 642,697. Published Aug. 11, 1953. Class 49.

582,887. Ladies' and Misses' Underwear—Namely, Nightgowns, Robes, Bed Jackets, Panties, Negligees, and Slips. Chevette, Inc., New York, N. Y.
Filed Feb. 26, 1953, Serial No. 642,803. Published Aug. 18, 1953. Class 39.

582,888. Wire Reinforced Fabric Hose. Callahan Zinc-Lead Company, Inc., Amesbury, Mass.
Filed Mar. 2, 1953, Serial No. 642,941. Published Aug. 25, 1953. Class 35.

582,889. Floor Tile Composed in Part of Asphalt and Vinyl Plastic. Kentile, Inc., Brooklyn, N. Y.
Filed Mar. 2, 1953, Serial No. 642,974. Published Aug. 18, 1953. Class 12.

582,890. High Duty Fireclay Refractory Brick Used for Furnace Construction Primarily in Steel Plants. Harbison-Walker Refractories Company, Pittsburgh, Pa.
Filed Mar. 4, 1953, Serial No. 643,096. Published July 21, 1953. Class 12.

582,891. Copper Base Alloy for Forming Low Friction Hard Overlays on Other Metal Surfaces. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Mar. 5, 1953, Serial No. 643,146. Published Aug. 18, 1953. Class 14.

582,892. Pre-Fabricated Homes. Gunnison Homes, Incorporated, New Albany, Ind.
Filed Mar. 5, 1953, Serial No. 643,159. Published July 21, 1953. Class 12.

582,893. Fertilizers. Port Fertilizer & Chemical Company, Los Fresnos, Tex.
Filed Mar. 5, 1953, Serial No. 643,184. Published Sept. 1, 1953. Class 10.

582,894. Beer. Fox Head Brewing Co., Waukesha, Wis.
Filed Mar. 6, 1953, Serial No. 643,213. Published Aug. 18, 1953. Class 48.

582,895. Pharmaceutical Preparation Useful in the Treatment of Colds, La Grippe, Chills, and Rheumatism. John J. Briggs, doing business as Briggs' Laboratory Products Company, Indianapolis, Ind.
Filed Oct. 3, 1952, Serial No. 636,113. Published Aug. 4, 1953. Class 18.

582,896. Newspaper Rural Delivery Route Tubes and Newspaper Sales Honor Boxes. The Steel City Manufacturing Company, Youngstown, Ohio.
Filed Oct. 6, 1952, Serial No. 636,257. Published Aug. 18, 1953. Class 2.

582,897. Hypodermic-Needle Washer Units, Hypodermic-Needle Rinser Units, Hypodermic-Needle Washer-Rinser Units, and Hypodermic-Needle-Holding Manifolds for Such Units. The Macalaster Bicknell Parenteral Corporation, Cambridge, Mass.
Filed Oct. 9, 1952, Serial No. 636,425. Published Aug. 25, 1953. Class 44.

582,898. Opaque Circular Printing Papers. Fraser Paper, Limited, Madawaska, Maine.
Filed Oct. 10, 1952, Serial No. 636,473. Published Aug. 4, 1953. Class 37.

582,899. Canned Ham. United Meat Packers, Rotterdam, Netherlands.
Filed Oct. 13, 1952, Serial No. 636,574. Published July 7, 1953. Class 46.

582,900. Textile Rugs and Carpets. Waite Carpet Co., Oshkosh, Wis.
Filed Oct. 14, 1952, Serial No. 636,617. Published Sept. 1, 1953. Class 42.

582,901. Driers for Ready Mixed Paints, Enamels, Varnishes, Etc. Nuodex Products Co., Inc., Elizabeth, N. J.
Filed Oct. 18, 1952, Serial No. 636,860. Published Aug. 18, 1953. Class 16.

582,902. Men's Toilet Preparations—Namely, Cologne, After Shave Lotion, and Talcum Powder. Bourjois, Inc., New York, N. Y.
Filed Oct. 20, 1952, Serial No. 636,876. Published July 14, 1953. Class 51.

582,903. Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers and Combinations Thereof. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Oct. 23, 1952, Serial No. 637,041. Published Sept. 1, 1953. Class 42.

582,904. Appetizer Hors d'Oeuvre Consisting of Portuguese Bread, Garlic, and Seasoning. Helen Dove, Martha's Vineyard, Mass.
Filed Oct. 23, 1952, Serial No. 637,043. Published Aug. 18, 1953. Class 46.

582,905. Medicinal Preparation of Multiple Vitamins Used as a Food Supplement for Infants and Children. Eli Lilly and Company, Indianapolis, Ind.
Filed Oct. 23, 1952, Serial No. 637,064. Published Aug. 25, 1953. Class 18.

582,906. Portfolios in Which Necktie Can Be Carried Without Creasing. Hilbert W. Peterson, doing business under the name and style of Fit-O-Be Company, Omaha, Nebr.
Filed Oct. 27, 1952, Serial No. 637,208. Published Aug. 25, 1953. Class 3.

582,907. Garlic Compound Tablets, Used as a Carminative. Daniel W. Young, Pine Bluff, Ark.
Filed Oct. 27, 1952, Serial No. 637,226. Published Aug. 11, 1953. Class 18.

582,908. Egg Cartons. Bloomer Bros. Company, Newark, N. Y.
Filed Oct. 29, 1952, Serial No. 637,298. Published Aug. 18, 1953. Class 2.

582,909. Textile Fabrics of Cotton in the Piece. Wennonah Cotton Mills Company, Lexington, N. C.
Filed Oct. 29, 1952, Serial No. 637,342. Published Sept. 1, 1953. Class 42.

582,910. Shoe Rack. Henry A. Enrich and Co. Inc., New York, N. Y.
Filed Nov. 1, 1952, Serial No. 637,481. Published Aug. 25, 1953. Class 32.

582,911. Men's, Women's, Boys', and Girls' Sportswear—Namely, Sport Jackets, Leather Coats, and Zippered Jackets. Highlander Sportswear, Inc., New York, N. Y.
Filed Nov. 3, 1952, Serial No. 637,540. Published Aug. 25, 1953. Class 39.

582,912. Defluorinated Phosphate for Use as Plant and Animal Food Supplements. International Minerals & Chemical Corporation, Chicago, Ill.
Filed Nov. 4, 1952, Serial No. 637,594. Published Aug. 4, 1953. Class 18.

582,913. Cured Hams Sold in Tins. Neesen Trading Company, Inc., New York, N. Y.
Filed Nov. 4, 1952, Serial No. 637,605. Published Aug. 25, 1953. Class 46.

582,914. Umbrellas. Annie Oakley Enterprises, Inc., Los Angeles, Calif.
Filed Nov. 7, 1952, Serial No. 637,742. Published July 28, 1953. Class 41.

582,915. Industrial Wiping Cloths. Industrial Wiping Cloth Co., Inc., Long Island City, N. Y.
Filed Nov. 7, 1952, Serial No. 637,776. Published Aug. 18, 1953. Class 29.

582,916. Diamond Rings. Gem Jewelry Company of Beaumont, Inc., Beaumont, Tex.
Filed Nov. 10, 1952, Serial No. 637,868. Published July 21, 1953. Class 28.

582,917. Hair Oil, an All Purpose Skin Cream, Toilet Water, Skin Lotion, Perfume, Cleansing Cream, After-Shave Lotion, and Cologne. M. M. Mikulas, doing business under the name of Mylans, San Francisco, Calif.
Filed Nov. 13, 1952, Serial No. 638,008. Published Aug. 18, 1953. Class 51.

582,918. Asbestos-Cement Siding. The Ruberoid Co., Bound Brook, N. J., and New York, N. Y.
Filed Nov. 14, 1952, Serial No. 638,105. Published July 28, 1953. Class 12.

582,919. Combination of Benzoin, Oil of Eucalyptus, Oil of Pine Needles, Etc. The Bauer Chemical Company, Inc., Locust Valley, N. Y.
Filed Nov. 13, 1952, Serial No. 638,120. Published Aug. 11, 1953. Class 18.

582,920. Alkali Cleanser in Briquet Form, for Use in Dish Washing Machines and for Cleaning and Washing Machinery, Bottles, Milk Cans, and Utensils in the Food, Beverage, and Dairy Industries. National Cleanser Products Co., Inc., New York, N. Y., assignor to Charles Herman, doing business as "J" Chemical Works, New York, N. Y.
Filed Nov. 15, 1952, Serial No. 638,151. Published Aug. 18, 1953. Class 52.

582,921. Alkali Cleanser in Briquet Form, for Use in Dish Washing Machines and for Cleaning and Washing Machinery, Bottles, Milk Cans, and Utensils in the Food, Beverage, and Dairy Industries. National Cleanser Products Co., Inc., New York, N. Y., assignor to Charles Herman, doing business as "J" Chemical Works, New York, N. Y.
Filed Nov. 15, 1952, Serial No. 638,152. Published Aug. 18, 1953. Class 52.

582,922. Vitamin and Mineral Food Supplement Preparation for Older People and Convalescents. Benya Drug Company, Wernersville, Pa.
Filed Nov. 18, 1952, Serial No. 638,238. Published Aug. 4, 1953. Class 18.

582,923. Cured Hams Sold in Tins. Neesen Trading Company, Inc., New York, N. Y.
Filed Nov. 18, 1952, Serial No. 638,268. Published Aug. 25, 1953. Class 46.

582,924. Knitted, Netted, and Textile Fabrics, Said Fabrics Being Made of Cotton, Wool, Linen, Silk, and Synthetic Fibre. Ivler & Pollack, New York, N. Y.
Filed Nov. 20, 1952, Serial No. 638,363. Published Sept. 1, 1953. Class 42.

582,925. Piece Goods of Worsted, Synthetic Fibers, and Combinations Thereof. Wamsutta Mills, New Bedford, Mass.
Filed Nov. 20, 1952, Serial No. 638,380. Published Sept. 1, 1953. Class 42.

582,926. Cotton Piece Goods. Wamsutta Mills, New Bedford, Mass.
Filed Nov. 20, 1952, Serial No. 638,382. Published Sept. 1, 1953. Class 42.

582,927. Geriatric-Mineral Supplement With Hormones. American Cyanamid Company, New York, N. Y.
Filed Nov. 21, 1952, Serial No. 638,387. Published Aug. 4, 1953. Class 18.

582,928. Gaskets and Packing Material Made Mainly of Mineral Fibers. Birma Products Corporation, Buffalo, N. Y.
Filed Nov. 21, 1952, Serial No. 638,397. Published Aug. 25, 1953. Class 35.

582,929. Perfume, Toilet Water, Lipstick, Rouge, Face Powder, and Skin Creams. Houbigant, Inc., doing business as Houbigant, New York, N. Y.
Filed Nov. 21, 1952, Serial No. 638,419. Published Aug. 18, 1953. Class 51.

582,930. Electron Tubes. Societe Francaise Radio-Electrique, Paris, France.
Priority under Sec. 44(d). French Registration No. 420,342, filed May 26, 1952.
Filed Nov. 25, 1952, Serial No. 638,612. Published Aug. 25, 1953. Class 21.

582,931. Disposable Paper Towels and Paper Bracket-Table Covers Used by Members of the Dental and Medical Professions. Premier Dental Products Co., Philadelphia, Pa.
Filed Nov. 26, 1952, Serial No. 638,659. Published July 14, 1953. Class 37.

582,932. Men's, Women's, and Children's Shoes. Knapp Brothers Shoe Manufacturing Corporation, Brockton, Mass., and Lewiston, Maine.
Filed Nov. 28, 1952, Serial No. 638,719. Published Aug. 4, 1953. Class 39.

582,933. Medicinal Preparation of 1-p-Chlorophenyl-2-Phenyl-4-Pyrrolidino Butene Used in the Treatment of Allergic Disorders. Eli Lilly and Company, Indianapolis, Ind.
Filed Nov. 28, 1952, Serial No. 638,728. Published July 28, 1953. Class 18.

582,934. Fresh Vegetables. Paul P. Schoenburg, doing business as Schoenburg Bros. Produce Company, Salinas, Calif.
Filed Nov. 29, 1952, Serial No. 638,780. Published May 26, 1953. Class 46.

582,935. Liquid Chemical for Melting Ice. The Hargrove Company, Minneapolis, Minn.
Filed Dec. 1, 1952, Serial No. 638,797. Published Aug. 25, 1953. Class 6.

582,936. Scotch Whisky. Sandy Fraser Limited, Manchester, England.
Filed Dec. 2, 1952, Serial No. 638,873. Published Aug. 11, 1953. Class 49.

582,937. Isonicotinic Acid Hydrazide Used for the Treatment of Tuberculosis. Armour and Company, Chicago, Ill.
Filed Dec. 4, 1952, Serial No. 638,939. Published Aug. 11, 1953. Class 18.

582,938. Pharmaceutical Preparation Containing Iron and Duodenum Powder. Armour and Company, Chicago, Ill.
Filed Dec. 4, 1952, Serial No. 638,943. Published Aug. 11, 1953. Class 18.

582,939. Thyrotropic Hormone Preparation. Armour and Company, Chicago, Ill.
Filed Dec. 4, 1952, Serial No. 638,944. Published Aug. 11, 1953. Class 18.

582,940. Windshield Wiper Blades for Use With Wiper Arms. The Anderson Company, Gary, Ind.
Filed Dec. 5, 1952, Serial No. 639,004. Published Sept. 1, 1953. Class 19.

582,941. Forgings—Namely, Upset and Drop Forgings. American Brake Shoe Company, New York, N. Y.
Filed Mar. 9, 1953, Serial No. 643,261. Published Aug. 25, 1953. Class 14.

582,942. Textile Rugs and Carpets. Waite Carpet Company, Oshkosh, Wis.
Filed Mar. 11, 1953, Serial No. 643,517. Published Sept. 1, 1953. Class 42.

582,943. Textile Rugs and Carpets. Waite Carpet Company, Oshkosh, Wis.
Filed Mar. 11, 1953, Serial No. 643,518. Published Sept. 1, 1953. Class 42.

582,944. Textile Rugs and Carpets. Waite Carpet Company, Oshkosh, Wis.
Filed Mar. 11, 1953, Serial No. 643,519. Published Sept. 1, 1953. Class 42.

582,945. Textile Rugs and Carpets. Waite Carpet Company, Oshkosh, Wis.
Filed Mar. 11, 1953, Serial No. 643,520. Published Sept. 1, 1953. Class 42.

582,946. Thread. Coats & Clark Inc., New York, N. Y.
Filed Mar. 16, 1953, Serial No. 643,652. Published Aug. 18, 1953. Class 43.

582,947. Thread. Coats & Clark Inc., New York, N. Y. Filed Mar. 16, 1953, Serial No. 643,653. Published Aug. 18, 1953. Class 43.

582,948. Thread. Coats & Clark Inc., New York, N. Y. Filed Mar. 16, 1953, Serial No. 643,654. Published Aug. 18, 1953. Class 43.

582,949. Electric Coffee Roasters. Incoro, Inc., Kingston, N. Y.
Filed Mar. 17, 1953, Serial No. 643,763. Published Aug. 18, 1953. Class 21.

582,950. Wooden Doors and Windows. J. Gerber & Co., Inc., New York, N. Y.
Filed Mar. 19, 1953, Serial No. 643,901. Published July 21, 1953. Class 12.

582,951. Clocks, Watches, Watch Movements, and Parts Thereof. Ludwig Hummel, doing business as Durowe Deutsche Uhrenrohwerke L. Hummel & Co., Pforzheim, Germany.
Filed Mar. 23, 1953, Serial No. 644,033. Published July 28, 1953. Class 27.

582,952. Electrical Capacitors. Micamold Radio Corporation, Brooklyn, N. Y.
Filed Mar. 23, 1953, Serial No. 644,047. Published Aug. 25, 1953. Class 21.

582,953. Children's and Girls' Slips, Panties, Robes, Dusters, and Sleepwear—Namely, Gowns and Pyjamas. Wundies, Inc., Williamsport, Pa.
Filed Mar. 25, 1953, Serial No. 644,205. Published Aug. 18, 1953. Class 39.

582,954. Magnetic Tape for the Reproduction of Sounds and Impulses. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Mar. 26, 1953, Serial No. 644,243. Published Aug. 25, 1953. Class 21.

582,955. Woven Fibre Rugs, Woven Fibre Draperies, and Fabrics for Automobile Seat Covers, Woven From Paper, Sisal, Rayon, Cotton, Plastic, and Synthetic Fibres, or Combinations Thereof. Patchogue-Plymouth Mills Corporation, New York, N. Y.
Filed Mar. 26, 1953, Serial No. 644,252. Published Sept. 1, 1953. Class 42.

582,956. Watches—Namely, Wrist or Strap Watches. Bulova Watch Company, Inc., New York, N. Y.
Filed Mar. 27, 1953, Serial No. 644,280. Published July 28, 1953. Class 27.

582,957. Storm Windows. Paramount Aluminum Products Corp., Mineola, N. Y.
Filed Mar. 27, 1953, Serial No. 644,343. Published July 21, 1953. Class 12.

582,958. Periodical Devoted to Management-Labor Relations. Management Service Publications, Inc., New York, N. Y.
Filed Mar. 31, 1953, Serial No. 644,508. Published Aug. 25, 1953. Class 38.

582,959. Blankets Made of Wool, of Wool and Cotton, and of Wool and Synthetic Fibers. North Star Woolen Mill Company, Lima, Ohio.
Filed Apr. 1, 1953, Serial No. 644,564. Published Aug. 25, 1953. Class 42.

582,960. Loom Woven Cut Pile Cotton Rugs. Belrug Mills of South Carolina, Greenville, S. C.
Filed Apr. 2, 1953, Serial No. 644,593. Published Sept. 1, 1953. Class 42.

582,961. Blankets. Pepperell Manufacturing Company, Boston, Mass.
Filed Apr. 3, 1953, Serial No. 644,686. Published Aug. 25, 1953. Class 42.

582,962. Cotton Broadcloth Shirting in the Piece. Dan River Mills, Incorporated, Danville, Va.
Filed Apr. 6, 1953, Serial No. 644,743. Published Aug. 25, 1953. Class 42.

582,963. Fabrics of Cotton and of Synthetic Fibers, Including Rayon and Nylon, and Combinations Thereof. Joseph Bancroft & Sons Co., Wilmington, Del.
Filed Apr. 8, 1953, Serial No. 644,889. Published Aug. 25, 1953. Class 42.

582,964. Blankets Made Wholly of Cotton, of Cotton and Rayon, or of Cotton, Rayon, and Wool. Beacon Manufacturing Company, Swannanoa, N. C.
Filed Apr. 9, 1953, Serial No. 644,956. Published Aug. 25, 1953. Class 42.

582,965. Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers, and Combinations Thereof. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Apr. 10, 1953, Serial No. 645,036. Published Aug. 25, 1953. Class 42.

582,966. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed Apr. 13, 1953, Serial No. 645,133. Published Aug. 25, 1953. Class 42.

582,967. Acetyl Peroxide, Ammonium Persulfate, Barium Nitrate, Etc. Food Machinery and Chemical Corporation, San Jose, Calif.
Filed Apr. 15, 1953, Serial No. 645,299. Published Sept. 1, 1953. Class 6.

582,968. Wool Braided Rugs. Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y.
Filed Apr. 16, 1953, Serial No. 645,443. Published Aug. 25, 1953. Class 42.

582,969. Fabrics in the Piece of Synthetic Fibers. Burlington Mills Corporation, Greensboro, N. C.
Filed Apr. 20, 1953, Serial No. 645,535. Published Aug. 25, 1953. Class 42.

582,970. Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof. D B Fuller & Co., Inc., New York, N. Y.
Filed Apr. 23, 1953, Serial No. 645,797. Published Sept. 1, 1953. Class 42.

582,971. Fresh Citrus Fruits. Deerfield Groves Company, Wabasso, Fla.
Filed Apr. 24, 1953, Serial No. 645,872. Published Aug. 11, 1953. Class 46.

582,972. Adult Bicycles Having Wheel Diameters of Over Fourteen Inches. Belknap Hardware and Manufacturing Company, Louisville, Ky.
Filed June 8, 1953, Serial No. 648,354. Published Sept. 1, 1953. Class 19.

582,973. Brooms. D. W. Swindle, doing business as D. W. Swindle and Sons Company, Nashville, Tenn.
Filed June 9, 1953, Serial No. 648,510. Published Aug. 25, 1953. Class 29.

582,974. Fishing and Spinning Reels, Fishing and Spinning Rods, Fishing Plugs, Spinners, Lures and Artificial Bait for Fish. Airex Corporation, New York, N. Y.
Filed June 12, 1953, Serial No. 648,639. Published Sept. 1, 1953. Class 22.

582,975. Fishing and Spinning Reels, Fishing and Spinning Rods, Fishing Plugs, Spinners, Lures and Artificial Bait for Fish. Airex Corporation, New York, N. Y.
Filed June 12, 1953, Serial No. 648,640. Published Sept. 1, 1953. Class 22.

582,976. New and Used Automotive Vehicles—Namely, Automobiles and Highway Trucks, and Structural Parts Therefor. Coast-In Pontiac Co., Inc., Washington, D. C.
Filed June 17, 1953, Serial No. 648,914. Published Sept. 1, 1953. Class 19.

Service Marks

582,977. Maintenance and Cleaning of Pipe Lines and Particularly, for the Cleaning of Water Mains. National Water Main Cleaning Company, New York, N. Y.
Filed Aug. 21, 1947, Serial No. 532,047. Published Aug. 25, 1953. Class 103.

582,978. Conducting Specialized Educational Courses in Airline Secretarial Instruction and Training. Kathleen Dell School, Inc., Brookline, Mass.
Filed Feb. 10, 1950, Serial No. 592,260. Published Aug. 18, 1953. Class 107.

582,979. Technical Research, Development, Design, and Consultant Services in the Fields of Analytical Engineering, Etc. Nuclear Development Associates, Inc., White Plains, N. Y.
Filed Dec. 5, 1950, Serial No. 607,295. Published Aug. 18, 1953. Class 100.

582,980. Cleaning and Repairing of Rugs, Carpets, Draperies, Furniture, and Other Similar House Furnishings, Etc. Allen Carpet Cleaning and Rug Weaving Company, Buffalo, N. Y.
Filed Oct. 10, 1951, Serial No. 619,780. Published Aug. 18, 1953. Class 103.

582,981. Sales Promotion of Radio Advertisers' Goods and Services Through the Issuance of Premium Coupons Redeemable in Merchandise Prizes. Radio Dollars, Inc., Washington, D. C.
Filed Jan. 22, 1952, Serial No. 623,911. Published Aug. 25, 1953. Class 101.

582,982. Printing, Photoengraving, Lithographing, Typesetting, and Rotogravure Work. R. R. Donnelley & Sons Company, Chicago, Ill.
Filed Apr. 4, 1952, Serial No. 627,562. Published Aug. 18, 1953. Class 101.

582,983. Gasoline Filling Station Services—Namely, Lubrication and Washing of Motor Vehicles. Farris C. Lind, Boise, Idaho.
Filed May 28, 1952, Serial No. 630,422. Published Aug. 18, 1953. Class 103.

582,984. Repairing Children's Furniture—Namely, Combination Chairs and Tables. Babee-Tenda License Corporation, Metropolis, Ill., and Cleveland, Ohio.
Filed July 26, 1952, Serial No. 633,246. Published Aug. 18, 1953. Class 103.

582,985. Cleaning Furs, Fur Garments, and the Linings Thereof. National Superior Fur Dressing & Dyeing Co., Chicago, Ill.
Filed Aug. 30, 1952, Serial No. 634,702. Published Aug. 18, 1953. Class 103.

582,986. Restaurant, Luncheonette, and Bar Services. Childs Company, Long Island City, N. Y.
Filed Oct. 16, 1952, Serial No. 636,689. Published Aug. 18, 1953. Class 100.

582,987. Advertising the Goods and Services of Others Through the Medium of a Radio Broadcast Program Consisting of News of Interest to Women on Clothing, Homemaking, Persons, and Social Gatherings. Maggie Wulff, doing business as Wulff Public Relations, Cleveland, Ohio.
Filed Nov. 4, 1952, Serial No. 637,631. Published Aug. 25, 1953. Class 101.

582,988. Advertising the Goods and Services of Others Through the Medium of a Television Show. Star Time Production Corporation, New York, N. Y.
Filed Feb. 10, 1953, Serial No. 642,053. Published Aug. 18, 1953. Class 101.

582,989. Conducting Escorted Travel Tours. Sita-Adventure Trails, Inc., New York, N. Y.
Filed Feb. 26, 1953, Serial No. 642,846. Published Aug. 25, 1953. Class 105.

Certification Mark

582,990. Silver Wares Manufactured in the United Kingdom and Sent to the Office of Us, the Applicants, To Be Assayed and Hall-Marked. The Wardens and Commonalty of the Mystery of Goldsmiths of the City of London, London, England.
Filed June 11, 1952, Serial No. 631,081. Published July 28, 1953. Class 28.

Collective Marks

582,991. Live Chinchillas. National Chinchilla Breeders of America, Incorporated, Salt Lake City, Utah.
Filed Sept. 25, 1951, Serial No. 619,209. Published July 21, 1953. Class 1.

582,992. Frozen Dairy Dessert. Quality Chekd Dairy Products Association, Chicago, Ill.
Filed Feb. 18, 1952, Serial No. 625,124. Published June 30, 1953. Class 46.

582,993. Self-Rising Cornmeal and Self-Rising Corn Meal Mix Composed Principally of Corn Meal and Wheat Flour. Family Flour Institute, Inc., Nashville, Tenn.
Filed Jan. 9, 1953, Serial No. 640,556. Published Aug. 18, 1953. Class 46.

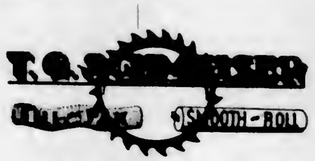
582,994. Plywood. Douglas Fir Plywood Association, Tacoma, Wash.
Filed Feb. 2, 1953, Serial No. 641,608. Published July 21, 1953. Class 12.

582,995. Plywood. Douglas Fir Plywood Association, Tacoma, Wash.
Filed Feb. 16, 1953, Serial No. 642,271. Published July 21, 1953. Class 12.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

582,996. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) T. G. Schmeiser, Fresno, Calif., assignor by decree of distribution to Ethel R. Schmeiser. Original filed, act of 1946, Principal Register, Mar. 21, 1949; amended to application, Supplemental Register, Apr. 2, 1953, Serial No. 575,787.



The central toothed disc is lined for red.
For Earth Working Implements, and Specifically Roller Type Soil Cultivators and Packers.
Claims use since Mar. 10, 1949.

582,997. (Class 46. Foods and Ingredients of Foods.) David Glesby, doing business as Glesby Grain & Milling Co., Van Nuys, Calif. Original filed, act of 1946, Principal Register, Sept. 6, 1949; amended to application, Supplemental Register, Feb. 24, 1953, Serial No. 584,492.



For Poultry Feed, Including Corn, Wheat, Milo, Oats, Bran, Meat, Fish, Soya Bean Meal, Linseed Meal, Alfalfa Meal, Cod Liver Oil, Salt, and Ground Shell.
Claims use since Apr. 1, 1937.

582,998. (Class 46. Foods and Ingredients of Foods.) Sylvia Echevarria, New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 25, 1950; amended to application, Supplemental Register, Mar. 27, 1952, Serial No. 593,059.

M - M
SPANISH - GREEN
SAUCE

The color indicated by the lining shown in the drawing is green. No claim is made to the words "Spanish Green Sauce."

For Liquid Sauce for Use on Meats and Fish Consisting of Vinegar, Water, Peppers, Salt, and Spices.
Claims use since Oct. 28, 1949.

582,999. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Pioneer Electric and Research Corporation, Chicago and Forest Park, Ill. Original filed, act of 1946, Principal Register, Mar. 4, 1950; amended to application, Supplemental Register, Dec. 19, 1952, Serial No. 593,438.

Electrowriter

For Electrical Follow-Up Intelligence Transmitting and/or Receiving Apparatus—Namely, Telautographic Apparatus.
Claims use since on or about Jan. 23, 1950.

583,000. (Class 46. Foods and Ingredients of Foods.) Bak-Kraft Corporation, Ltd., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Sept. 11, 1950; amended to application, Supplemental Register, June 27, 1952, Serial No. 603,399.

SPUNGE-TEXT'R

For Compound of Aqueous Mono and Di Glycerols and Other Esters Used in the Production and Baking of Sponge Cakes.
Claims use since Mar. 1, 1950.

583,001. (Class 46. Foods and Ingredients of Foods.) The Philadelphia, Inc., South Bend, Ind. Original filed, act of 1946, Principal Register, Jan. 10, 1951; amended to application, Supplemental Register, Jan. 18, 1952, Serial No. 608,623.



The word "Candies" is disclaimed apart from the mark shown. The drawing is lined to indicate the colors red, black, and gold.
For Candy.
Claims use since Oct. 5, 1901.

583,002. (Class 46. Foods and Ingredients of Foods.) Cup Brew Coffee Bag Company, Denver, Colo. Original filed, act of 1946, Principal Register, May 26, 1951; amended to application, Supplemental Register, Feb. 24, 1953, Serial No. 614,401.

CUP BREW

For Coffee.
Claims use since Feb. 23, 1951.

583,003. (Class 46. Foods and Ingredients of Foods.) Cup Brew Coffee Bag Company, Denver, Colo. Original filed, act of 1946, Principal Register, May 26, 1951; amended to application, Supplemental Register, Feb. 24, 1953, Serial No. 614,402.



For Coffee.
Claims use since Apr. 17, 1951.

583,004. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Dijam Enterprises Inc., doing business as Marvin Manufacturing Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 5, 1951; amended to application, Supplemental Register, Apr. 28, 1952, Serial No. 616,085.

Filter Fan

For Ventilating Fans and Blowers.
Claims use since December 1949.

583,005. (Class 34, Heating, Lighting, and Ventilating Apparatus.) Holophane Company, Inc., New York, N. Y., and elsewhere in the United States. Original filed, act of 1946, Principal Register, Oct. 12, 1951; amended to application, Supplemental Register, July 24, 1953, Serial No. 619,941.

LO-BRITE

For Illumination Equipment—Namely, Glass Lamp Panels, Screens, Globes, Reflectors, and Refractors.
Claims use since Sept. 27, 1951.

583,006. (Class 44. Dental, Medical, and Surgical Appliances.) Isadore Kiwad, doing business under the name of Pedi-Pads Manufacturing Co., Paterson, N. J. Original filed, act of 1946, Principal Register, Oct. 23, 1951; amended to application, Supplemental Register, Sept. 17, 1953, Serial No. 620,346.

PEDI-PADS

For Toe Protectors in Pad Form of Felt and Adapted To Separate the Toes.
Claims use since Aug. 20, 1951.

583,007. (Class 10. Fertilizers.) Clarence R. Rex, Toledo, Ohio. Original filed, act of 1946, Principal Register, Feb. 4, 1952; amended to application, Supplemental Register, May 18, 1953, Serial No. 624,502.

FLAKE

For Fertilizers.
Claims use since June 1950.

583,008. (Class 46. Foods and Ingredients of Foods.) A. E. Staley Manufacturing Company, Decatur, Ill. Original filed, act of 1946, Principal Register, Feb. 25, 1952; amended to application, Supplemental Register, Sept. 17, 1953, Serial No. 625,495.

SIEN-SU

In the Chinese language the mark means "Origin or source of delicacy in foods."
For Monosodium Glutamate.
Claims use since November 1948.

583,009. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Luma-Rim Corporation, Oakland, Calif. Original filed, act of 1946, Principal Register, Mar. 1, 1952; amended to application, Supplemental Register, July 21, 1953, Serial No. 625,812.

See-A-Bike

For Luminous Safety Device Consisting of Cut-Outs of Reflective Glass and Plastic Sheeting To Be Applied to Bicycle Wheels.
Claims use since Feb. 16, 1952.

583,010. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Hendrick Manufacturing Company, Carbondale, Pa. Filed Mar. 14, 1952, Serial No. 626,458.

Hendrick Ornametal

For Perforated Metal for Radiator Enclosures and Stove Panels.
Claims use since Aug. 10, 1950.

583,011. (Class 15. Oils and Greases.) Refiners Marketing Company, Ltd., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Apr. 28, 1952; amended to application, Supplemental Register, Mar. 2, 1953, Serial No. 628,825.

QUIK-WICK-FLO

For Lubricating Oil.
Claims use since Dec. 5, 1951.

583,012. (Class 44. Dental, Medical, and Surgical Appliances.) Progressive Products, La Mesa, Calif., assignor to Progressive Products, Inc., La Mesa, Calif., a corporation of California. Original filed, act of 1946, Principal Register, May 26, 1952; amended to application, Supplemental Register, Sept. 10, 1953, Serial No. 630,283.

Kool-a-Gum

For Teething Aid in the Form of a Liquid Filled Container Formed of Pliable Material.
Claims use since January 1948.

583,013. (Class 6. Chemicals and Chemical Compositions.) Glover Mineral Products, Inc., Kenbridge, Va. Original filed, act of 1946, Principal Register, June 18, 1952; amended to application, Supplemental Register, May 15, 1953, Serial No. 631,350.

NO SUCKER

For Mineral Oil for Use on Tobacco Plants.
Claims use since Mar. 10, 1952.

583,014. (Class 14. Metals and Metal Castings and Forgings.) Ziv Steel & Wire Co., Chicago, Ill. Original filed, act of 1946, Principal Register, June 24, 1952; amended to application, Supplemental Register, June 19, 1953, Serial No. 631,966.

LUBRI-DIE

For Tool Steel in Bars.
Claims use since Apr. 30, 1952.

583,015. (Class 21. Electrical Apparatus, Machines, and Supplies.) Pyramid Electric Company, North Bergen, N. J. Original filed, act of 1946, Principal Register, July 21, 1952; amended to application, Supplemental Register, May 5, 1953, Serial No. 632,851.

GLASSEAL

For Capacitors.
Claims use since Feb. 1, 1951.

583,016. (Class 46. Foods and Ingredients of Foods.) Leo Peters, Evanston, Ill. Original filed, act of 1946, Principal Register, July 26, 1952; amended to application, Supplemental Register, Aug. 31, 1953, Serial No. 633,119.

Good Lookin'

For Ice Cream, Butter, and Margarine.
Claims use since July 16, 1952.

583,017. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Cornell Paperboard Products Co., Milwaukee, Wis. Original filed, act of 1946, Principal Register, Aug. 21, 1952; amended to application, Supplemental Register, July 24, 1953, Serial No. 634,242.

Strip-Air

For Automatic Stripping Attachment for Carton Making Machines Which Functions To Blast Scrap or Surplus Free From a Carton-Sheet That Is Cut and Creased for Formation of the Carton.
Claims use since June 6, 1952.

583,018. (Class 2. Receptacles.) The Flintkote Company, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 30, 1952; amended to application, Supplemental Register, Sept. 10, 1953, Serial No. 635,958.

WEATHERKOTE

For Paperboard Boxes.
Claims use since June 23, 1949.

583,019. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Eveready Briksaw Company, Chicago, Ill. Filed Oct. 6, 1952, Serial No. 636,226.

EVEREADY

Applicant claims ownership of Registration No. 533,259.
For Power Driven Apparatus for Cutting and Shaping Articles in the Nature of Tile, Brick, Natural and Artificial Stone and Kindred Articles Composed of Solidified Cementitious and/or Clay Materials.
Claims use since Mar. 17, 1949.

583,020. (Class 19. Vehicles.) Service Cycle Supply Corporation, doing business as American Sportex Co., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 9, 1952; amended to application, Supplemental Register, Sept. 4, 1953, Serial No. 636,437.

Reynold

For Adult Bicycles.
Claims use since July 1, 1951.

583,021. (Class 22. Games, Toys, and Sporting Goods.) Adolf Attenhofer, Zurich, Switzerland. Original filed, act of 1946, Principal Register, Oct. 22, 1952; amended to application, Supplemental Register, Sept. 2, 1953, Serial No. 636,960.

FLEX

Priority under Sec. 44(d). Swiss application filed Apr. 26, 1952, Reg. No. 141,938 dated Apr. 26, 1952.
For Ski-Bindings.

583,022. (Class 19. Vehicles.) Trail-A-Boat Company, Pontiac, Mich. Filed Dec. 19, 1952, Serial No. 640,707.

TRAIL BOAT

For Combined Trailers and Sail Boats.
Claims use since Mar. 1, 1946.

583,023. (Class 2. Receptacles.) Bird & Son, Inc., East Walpole, Mass. Filed Jan. 23, 1953, Serial No. 641,167.

PERENNIAL POTS

For Seed, Flower, Fruit, and Plant Pots, All Made From a Sheet Consisting of Asphalt Impregnated Felt or Paper Base.
Claims use since June 1949.

583,024. (Class 26. Measuring and Scientific Appliances.) Dalton Film Company, Tulsa, Okla. Filed Feb. 10, 1953, Serial No. 642,022.

DALTON

For Motion Picture Film for Exhibition in Theaters and Television Programs.
Claims use since Dec. 18, 1950.

583,025. (Class 52. Detergents and Soaps.) Dri-Wear Fur Processing Co., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 18, 1953; amended to application, Supplemental Register, July 10, 1953, Serial No. 642,450.

DRI-WAY

For Chemical Compound in Powder and Crystal Forms for Use in Cleaning and Mothproofing of Rugs, Carpets, and Garments for Personal Use.
Claims use since March 1952.

583,026. (Class 46. Foods and Ingredients of Foods.) John Maurice Flanagan, doing business as Dorr Candies, Sioux City, Iowa. Filed June 19, 1953, Serial No. 649,087.

PECANETTES

The drawing is lined for green. Applicant claims ownership of Registration No. 533,233.
For Candies.
Claims use since Oct. 15, 1946.

Service Mark

583,027. (Class 103. Construction and Repair.) Tobias J. White, doing business as White Office Machines, Marysville, Tenn. Original filed, act of 1946, Principal Register, Dec. 17, 1952; amended to application, Supplemental Register, Sept. 4, 1953, Serial No. 639,682.

Won't Write? Call White

For Typewriter Maintenance and Repair Service.
Claims use since on or about Mar. 1, 1950.

TRADE-MARK REGISTRATIONS RENEWED

41,130. CHAMPION. Registered Sept. 22, 1903. Bleistiftfabrik vormals Johann Faber Actien Gesellschaft, Nuremberg, Germany. Vested in the Attorney General of the United States, Washington, D. C., and re-renewed to him Sept. 22, 1953. Lead-Pencils, Colored Pencils, Copying-Pencils, Slate-Pencils, Etc. Class 37.

41,221. ARDATH. Registered Oct. 6, 1903. Albert Levy. Re-renewed Oct. 6, 1953, to Ardath Tobacco Company, Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Smoking-Tobacco and Cigarettes. Class 17.

41,324. STATE EXPRESS. Registered Oct. 20, 1903. Albert Levy. Re-renewed Oct. 20, 1953, to Ardath Tobacco Company, Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Smoking-Tobacco and Cigarettes. Class 17.

91,690. DR. POSNER. Registered May 20, 1913. Abraham Posner. Re-renewed May 20, 1953, to Dr. A. Posner Shoes, Inc., New York, N. Y., a corporation of New York. Leather Shoes. Class 39.

93,565. SEMPERIT. Registered Sept. 23, 1913. "Semperit" Oesterreichisch-Amerikanische Gummiwerke Aktiengesellschaft, Vienna, Austria-Hungary. Re-renewed Sept. 23, 1953, to "Semperit" Oesterreichisch-Amerikanische Gummiwerke Aktiengesellschaft, Vienna, Austria, a corporation organized under the laws of the Republic of Austria. Rubber Packing and Hose of All Kind, Pneumatic Tires Etc. Class 35.

93,625. ALEXANDER BARRY. Registered Oct. 7, 1913 Barclay & Barclay. Re-renewed Oct. 7, 1953, to Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Preparations for Improving and Dyeing Hair, Dentifrice, Facial Cream, and Toilet Waters. Class 51.

93,903. "AMSTERDAM COOKIES" ETC. AND DESIGN. Registered Oct. 21, 1913. Perfection Biscuit Company, Fort Wayne, Ind., a corporation of Indiana. Re-renewed Oct. 21, 1953. Cakes and Cookies. Class 46.

94,120. SEMPERIT. Registered Nov. 4, 1913. "Semperit" Oesterreichisch-Amerikanische Gummiwerke Aktiengesellschaft, Vienna, Austria-Hungary. Re-renewed Nov. 4, 1953, to "Semperit" Oesterreichisch-Amerikanische Gummiwerke Aktiengesellschaft, Vienna, Austria, a corporation organized under the laws of the Republic of Austria. Children's Hollow and Solid Rubber Playing-Balls, Tennis-Balls, Foot-Balls, Etc. Class 22.

94,900. "FIPCO" AND DESIGN. Registered Jan. 13, 1914. Franklin Process Company, Providence, R. I., a corporation of Rhode Island. Re-renewed Jan. 13, 1954. Dyeing-Machines. Class 23.

95,223. WILLIAM TELL. Registered Feb. 3, 1914. McPherson Heights Citrus Association, McPherson, Calif. Re-renewed Feb. 3, 1954, to Consolidated Orange Growers, Orange, Calif., a corporation of California. Citrus Fruits. Class 46.

95,224. ROBIN HOOD. Registered Feb. 3, 1914. McPherson Heights Citrus Association, McPherson, Calif. Re-renewed Feb. 3, 1954, to Consolidated Orange Growers, Orange, Calif., a corporation of California. Citrus Fruits. Class 46.

95,359. REPRESENTATION OF WHITE CROSS WITHIN CIRCLE. Registered Feb. 10, 1914. The Sinclair Manufacturing Company. Re-renewed Feb. 10, 1954, to H. M. Sinclair, Jr., trustee for the partnership, The Sinclair Manufacturing Company, Toledo, Ohio. Chloride of Lime, Concentrated Lye, Powdered Borax and Ammonia. Class 6.

297,702. SASCO. Registered Sept. 27, 1932. Albert Reisch, doing business as Springfield Auto Supply Company. Renewed Sept. 27, 1952, to Springfield Auto Supply Company, Springfield, Ill., a corporation of Illinois. Vehicle Batteries, Battery Cables, Insulated Wire, Starting Motors, Etc. Class 21.

303,469. "BUD" AND DESIGN. Registered May 23, 1933. Bud Radio, Inc., Cleveland, Ohio, a corporation of Ohio. Renewed May 23, 1953. Radio Apparatus, Supplies, and Equipment Consisting of Radio Sets for Sending and Receiving, Etc. Class 21.

303,976. "SOPHIE TUCKER'S EGG NOODLES" ETC. AND DESIGN. Registered June 13, 1933. Sophie Tucker's Food Products Company, Incorporated, Baltimore, Md., a corporation of Maryland. Renewed June 13, 1953. Noodles. Class 46.

305,371. DAN-D-LUXE. Registered Aug. 15, 1933. Daniels Manufacturing Company, Rhinelander, Wis., a corporation of Wisconsin. Renewed Aug. 15, 1953. Paper Napkins and Paper Towels. Class 37.

305,747. "PROGRESS" AND DESIGN. Registered Aug. 22, 1933. Tobin, Sporn & Glaser, Inc., New York, N. Y., a corporation of New York. Renewed Aug. 22, 1953. Renaissance Lace, Cluny Lace, and Medallion Lace; Etc. Class 42.

305,756. "PROGRESS" AND DESIGN. Registered Aug. 22, 1933. Tobin, Sporn & Glaser, Inc., New York, N. Y., a corporation of New York. Renewed Aug. 22, 1953. Braid, Tape, Textile Fabrics Stamped for Drawn Work, Etc. Class 40.

305,907. GLORIA. Registered Aug. 29, 1933. Schultz, Baujan & Co. Renewed Aug. 29, 1953, to The Beardstown Mills Company, Beardstown, Ill., a corporation of Illinois. Wheat Flour. Class 46.

306,085. "F" AND DESIGN. Registered Sept. 5, 1933. The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed Sept. 5, 1953. Tire Covers, Brake Lining, Gaskets, Hose, Etc. Class 35.

306,209. "TWENTY GRAND". Registered Sept. 12, 1933. Consolidated Distilleries, Limited. Renewed Sept. 12, 1953, to H. Corby Distillery Limited, Montreal, Quebec, Canada, a corporation organized under the laws of the Dominion of Canada. Whiskey and Other Potable Distilled Liquors. Class 49.

306,233. VALOR. Registered Sept. 12, 1933. Robertson Bros. & Co. Limited. Renewed Sept. 12, 1953, to Geo. G. Sandeman Sons & Co. Limited, London, England, a limited liability company registered under the laws of Great Britain. Wines. Class 47.

306,234. PYRAMID. Registered Sept. 12, 1933. Robertson Bros. & Co. Limited. Renewed Sept. 12, 1953, to Geo. G. Sandeman Sons & Co. Limited, London, England, a limited liability company registered under the laws of Great Britain. Wines. Class 47.

306,235. PRIVATEER. Registered Sept. 12, 1933. Robertson Bros. & Co. Limited. Renewed Sept. 12, 1953, to Geo. G. Sandeman Sons & Co. Limited, London, England, a limited liability company registered under the laws of Great Britain. Wines. Class 47.

306,367. SURGINE. Registered Sept. 19, 1933. Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey. Renewed Sept. 19, 1953. Prepared Bandaging Material for Use in Making Sanitary Napkins, Pads, and Surgical Dressings. Class 44.

306,862. GEISHA. Registered Oct. 3, 1933. Nozaki Bros. & Co., Ltd., Yokohama, Japan. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Oct. 3, 1953. Canned Crabs, Canned Tuna, Canned Clams, and Canned Mandarin Oranges. Class 46.

306,890. REPRESENTATION OF GLOBE ETC. Registered Oct. 3, 1933. The American Silver Company, Bristol, Conn. Renewed Oct. 3, 1953, to The International Silver Company, Meriden, Conn., a corporation of Connecticut. Silver Plated Tableware, Consisting of Spoons, Forks, Knives, and Ladles. Class 28.

307,110. VELVATURF. Registered Oct. 17, 1933. O. M. Scott & Sons Company, Marysville, Ohio, a corporation of Ohio. Renewed Oct. 17, 1953. Lawn Grass Seed. Class 1.

307,436. ROBERTSON'S. Registered Oct. 24, 1933. Robertson Bros. & Co. Limited. Renewed Oct. 24, 1953, to Geo. G. Sandeman Sons & Co. Limited, London, England, a limited liability company registered under the laws of Great Britain. Port Wine. Class 47.

307,462. "OUR NUMBER 31" ETC. Registered Oct. 24, 1933. The Weideman Company, Cleveland, Ohio. Renewed Oct. 24, 1953, to James B. Beam Distilling Co., Chicago, Ill., a corporation of Illinois. Whiskey. Class 49.

308,927. FOOT-GEEN. Registered Dec. 26, 1933. S. Pfeiffer Manufacturing Company, St. Louis, Mo., a corporation of Missouri. Renewed Dec. 26, 1953. Corn Remover in Liquid Form, Medicated Corn, Bunion, and Callous Pads, Etc. Class 18.

309,040. CAVALIER. Registered Dec. 26, 1933. Hartwell Brothers, Memphis, Tenn., a corporation of Illinois. Renewed Dec. 26, 1953. Handles for Tools. Class 23.

309,111. "DURAFLEX" AND DESIGN. Registered Jan. 2, 1934. Durex Products, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 2, 1954. Pessaries. Class 44.

309,193. AMPHYL. Registered Jan. 9, 1934. Lehn & Fink, Inc. Renewed Jan. 9, 1954, to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware. Preparation Recommended as a Cleansing Agent for Use in the Household, Public Institution, Etc. Class 52.

309,229. CLICQUOT CLUB. Registered Jan. 9, 1934. Clicquot Club Company, Millis, Mass., a corporation of Rhode Island. Renewed Jan. 9, 1954. Carbonated Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and for Extracts, Syrups, Etc. Class 45.

309,251. "CAPTAIN EASY" ETC. Registered Jan. 9, 1934. NEA Service, Inc., Cleveland, Ohio, a corporation of Delaware. Renewed Jan. 9, 1954. Comic Strip in Weekly Publications. Class 38.

309,610. "DAILY LOG" ETC. AND DESIGN. Registered Jan. 23, 1934. Colwell Publishing Company, Champaign, Ill., a firm. Renewed Jan. 23, 1954. Physician's Record and Account Book. Class 37.

309,738. SILVER GRILLE. Registered Jan. 30, 1934. Apple Growers Association, Hood River, Oreg., a corporation of Oregon. Renewed Jan. 30, 1954. Canned Fruit. Class 46.

309,871. "SNOWMAN" ETC. AND DESIGN. Registered Feb. 6, 1934. Windsor-Lloyd Products, Inc., Wilmington, Del., a corporation of Delaware. Renewed Feb. 6, 1954. Anti-Freeze Preparation for Automobile Radiators. Class 6.

309,899. "L'AIGLON" ETC. AND DESIGN. Registered Feb. 6, 1934. Windsor-Lloyd Products, Inc., Wilmington, Del., a corporation of Delaware. Renewed Feb. 6, 1954. Polishing and Cleaning Preparation for Automobiles and Furniture and the Like. Class 4.

309,900. "L'AIGLON" ETC. AND DESIGN. Registered Feb. 6, 1934. Windsor-Lloyd Products, Inc., Wilmington, Del., a corporation of Delaware. Renewed Feb. 6, 1954. Dry Cleaning Preparation. Class 52.

310,067. "STERA-KLEEN" AND DESIGN. Registered Feb. 13, 1934. The Phillips & Benjamin Company, Boston, Mass. Renewed Feb. 13, 1954, to Wernet Dental Mfg. Co., Inc., Jersey City, N. J., a corporation of Delaware. Artificial Denture Cleansers. Class 51.

310,090. SANDOZ. Registered Feb. 13, 1934. Sandoz Chemical Works, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 13, 1954. Dyes. Class 6.

310,162. DELUSTRAN. Registered Feb. 13, 1934. Sandoz Chemical Works, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 13, 1954. Gloss Removing Compound Recommended for Use in the Textile Industry. Class 6.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

314,228. OLD CADILLAC. Registered June 19, 1934. Cadillac Wine Distributing Company, Detroit, Mich. Wines. Class 47. Canceled Oct. 9, 1953. Canc. No. 6097.

360,620. OCTOIL. Registered Sept. 20, 1938. Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. High Boiling Oily Esters, Etc. Class 6. Canceled Oct. 22, 1953. Section 7(d).

360,854. CELVACENE. Registered Sept. 27, 1938. Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Grease, Particularly Adapted for Use in Sealing Removable Parts of Vacuum Apparatus. Class 15. Canceled Oct. 22, 1953. Section 7(d).

361,217. AMOIL. Registered Oct. 11, 1938. Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. High Boiling Oily Esters, Etc. Class 6. Canceled Oct. 22, 1953. Section 7(d).

373,168. STANSCIEN. Registered Nov. 28, 1939. Standard Scientific Supply Corp., New York, N. Y. Laboratory Apparatus, Etc. Class 26. Canceled Oct. 22, 1953. Section 7(d).

506,452. VITONE. Registered Feb. 8, 1949. The Andrew Jergens Company, Cincinnati, Ohio. Face Cream. Class 51 (formerly Class 6). Canceled Oct. 9, 1953. Canc. No. 5626.

538,764. SNEEX. Registered Feb. 27, 1951. Victor Lebow, New York, N. Y. Combination Slipper and Sock. Class 39. Canceled Oct. 9, 1953. Canc. No. 6079.

570,810. VICORLO. Registered Feb. 17, 1953. I. A. Wyner & Co., Inc., New York, N. Y. Knitted Fabrics in the Piece Made of Cotton, Wool, Etc. Class 42. Canceled Oct. 22, 1953. Section 7(d).

576,347. DACROLANE. Registered June 23, 1953. I. A. Wyner & Co., Inc., New York, N. Y. Knitted Fabrics in the Piece Made in Substantial Part of Wool Combined With Synthetic Fibers, Etc. Class 42. Canceled Oct. 22, 1953. Section 7(d).

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

91,886. MAC-IT. Registered June 3, 1913. Mac-It Parts Company, Lancaster, Pa. Screws. Class 13. Corrected as follows: In the certificate of renewal, line 2, name of grantee, for "Mac-It Parts Company" read *Mac-it Parts Company*.

580,244. BELCOBALSA CERTIFIED KILNDRIED AND DESIGN. Registered Sept. 22, 1953. Balsa Ecuador Lumber Corp., New York, N. Y. Lumber. Class 12. Corrected as follows: The mark should appear as shown below instead of as in the registration.

"CERTIFIED KILNDRIED"
BELCOBALSA

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 329,748. Registered Nov. 12, 1935. The Porcelain Enamel and Manufacturing Company of Baltimore, Baltimore, Md. Republished by Pemco Corporation, Baltimore, Md., a corporation of Maryland.

THE WORLD'S PEMCO FINEST

The words "The World's Finest" are disclaimed apart from the mark as shown.

For Enamel Frits, Oxides, and Opacifiers.
Claims use since June 17, 1935.

Reg. No. 383,336. Registered Dec. 3, 1940. The Porcelain Enamel and Manufacturing Company of Baltimore, doing business as The Porcelain Enamel and Manufacturing Company, Baltimore, Md. Republished by Pemco Corporation, Baltimore, Md., a corporation of Maryland.

PYRONAMEL

For Porcelain Enamel Frits.
Claims use since May 3, 1940.

Reg. No. 387,742. Registered May 27, 1941. The Porcelain Enamel and Manufacturing Company of Baltimore, doing business as Porcelain Enamel and Manufacturing Company, Baltimore, Md. Republished by Pemco Corporation, Baltimore, Md., a corporation of Maryland.

PYROFLEX

For Porcelain Enamel Frits.
Claims use since Dec. 13, 1940.

Reg. No. 436,149. Registered Jan. 27, 1948. Pemco Corporation, Baltimore, Md., a corporation of Maryland. Republished by registrant.

NEOWITE

For Acid Resistant Porcelain Enamel Frits.
Claims use since Feb. 19, 1946.

CLASS 7

CORDAGE

Reg. No. 308,264. Registered Nov. 28, 1933. Plymouth Cordage Company, Plymouth and North Plymouth, Mass., a corporation of Massachusetts. Republished by registrant, present address Plymouth, Mass.



The drawing is lined for red. No claim is made to the representation of a section of rope.
For Hard Fibre Rope.
Claims use since Jan. 31, 1933.

Reg. No. 308,267. Registered Nov. 28, 1933. Plymouth Cordage Company, Plymouth and North Plymouth, Mass., a corporation of Massachusetts. Republished by registrant, present address Plymouth, Mass.



The drawing is lined for green. No claim is made to the representation of a section of rope.
For Hard Fibre Rope.
Claims use since Mar. 5, 1912.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 308,719. Registered Dec. 19, 1933. Wayne Iron Works, Wayne, Pa., a corporation of Pennsylvania. Republished by registrant.

GYMSTAND

For Folding Grandstands.
Claims use since September 1932.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 93,327. Registered Sept. 9, 1913. Berry Brothers Ltd., Detroit, Mich. Republished by Berry Brothers, Inc., Detroit, Mich., a corporation of Michigan.

LIONOIL

For Substitute for Linseed-Oil.
Claims use since Apr. 1, 1911.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Reg. No. 316,603. Registered Aug. 28, 1934. John F. Dille, Chicago, Ill. Republished by registrant.



For Toys—Namely, Ships and Rocket Ships.
Claims use since Apr. 10, 1934.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 306,272. Registered Sept. 12, 1933. A. B. Dick Company, Chicago, Ill., a corporation of Illinois. Republished by registrant, present address Niles, Ill.

EDISON-DICK

For Duplicating Machines and Parts Thereof.
Claims use since Nov. 10, 1915.

CLASS 39

CLOTHING

Reg. No. 308,709. Registered Dec. 19, 1933. Connolly Shoe Co., Stillwater, Minn., a corporation of Minnesota. Republished by registrant



For Shoes Comprising Leather, Fabric, and/or Rubber.
Claims use since Feb. 5, 1932.

Reg. No. 308,732. Registered Dec. 19, 1933. Riegel Textile Corporation, New York, N. Y. Republished by Riegel Textile Corporation, New York, N. Y., a corporation of Delaware.

Puffspun

For Cotton Piece Goods—Namely, Diapers.
Claims use since July 20, 1933.

Reg. No. 308,802. Registered Dec. 19, 1933. (Classified in Class 42.) Riegel Textile Corporation, New York, N. Y. Republished by Riegel Textile Corporation, New York, N. Y., a corporation of Delaware.
See this number in Class 42 for goods and mark.
Claims use since Apr. 22, 1933.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Reg. No. 307,122. Registered Oct. 17, 1933. I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York. Republished by registrant.

FEATHERNAP

For Dress Shields.
Claims use since May 4, 1933.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 304,828. Registered July 18, 1933. Joseph Bancroft & Sons Co., Wilmington, Del., a corporation of Delaware. Republished by registrant.

ROCK-FAST

For Window Shade Fabrics.
Claims use since June 27, 1932.

Reg. No. 308,802. Registered Dec. 19, 1933. Riegel Textile Corporation, New York, N. Y. Republished by Riegel Textile Corporation, New York, N. Y., a corporation of Delaware.



For Cotton Piece Goods and Fabricated Articles Made From Cotton—Namely, Sheets, Pillowcases, Diapers, and Handkerchiefs.
Claims use since Apr. 22, 1933.

Reg. No. 404,888. Registered Dec. 28, 1943. Harte & Co. Inc., New York, N. Y., a corporation of New York. Republished by registrant.

NEOTEX

For Waterproof Piece Goods.
Claims use since Feb. 24, 1943.

Reg. No. 441,303. Registered Nov. 16, 1948. Harte & Co. Inc., New York, N. Y., a corporation of New York. Republished by registrant.

WATASEAL

For Thin, Transparent or Translucent Sheets or Films of Vinyl Resin Plastic Sold as Piece Goods for Use in Making Shower Curtains, Bath-Room Curtains, Aprons, Pillow Cases, Baby Garments, Rain Coats, and the Like.
Claims use since Jan. 5, 1945.

CLASS 43

THREAD AND YARN

Reg. No. 308,300. Registered Nov. 28, 1933. Threads, Incorporated, Gastonia and Arkray Village, N. C., a corporation of North Carolina. Republished by registrant, present address Gastonia, N. C.

LEOPARD



For Sewing Thread.
Claims use since about Oct. 1, 1931.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 308,567. Registered Dec. 12, 1933. Harvey S. Cover, South Bend, Ind. Republished by registrant.

DUPOR

For Respirators and Gas Masks.
Claims use since Aug. 9, 1933.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 45,341. Registered Aug. 15, 1905. Waggoner-Gates Milling Company, Independence, Mo., a corporation of Missouri. Republished by registrant.

QUEEN OF THE PANTRY

For Wheat-Flour.
Claims use since July 16, 1878.

Reg. No. 304,384. Registered July 4, 1933. Wm. Wrigley Jr. Company, Chicago, Ill., a corporation of Delaware. Republished by registrant.



The drawing is lined for red.
For Chewing Gum.
Claims use since Jan. 26, 1933.

Reg. No. 304,505. Registered July 11, 1933. Wilkins-Rogers Milling Co., Inc., Washington, D. C., a corporation of Virginia. Republished by registrant.



For Wheat Flour.
Claims use since on or about Sept. 1, 1932.

Reg. No. 304,548. Registered July 11, 1933. Dugan Brothers of New Jersey, Inc., Newark, N. J., a corporation of New Jersey. Republished by registrant.



The words "Bakers for the Home," "Bread," "Cakes," and "Pies" are disclaimed apart from the mark as shown.
For Bread, Cakes, and Pies.
Claims use since Nov. 7, 1932.

Reg. No. 316,410. Registered Aug. 28, 1934. Waggoner-Gates Milling Company, Independence, Mo., a corporation of Missouri. Republished by registrant.

QUEEN
OF THE
PANTRY

For Self-Rising Flour.
Claims use since Dec. 19, 1927.

Reg. No. 362,809. Registered Nov. 29, 1938. Orlando E. Farina, San Francisco, Calif. Republished by registrant, present address Stockton, Calif.

COLLINA

For Fresh Grapes.
Claims use since January 1930.

Reg. No. 438,239. Registered Apr. 13, 1948. Stayton Canning Co. Co-Operative, Stayton, Oreg., a corporation of Oregon. Republished by registrant.

Santiam

For Canned Vegetables and Fruits and Frozen Deciduous Fruits.
Claims use since July 19, 1926.

Reg. No. 444,704. Registered July 22, 1952. Red-Ee Foods, Inc., Los Angeles, Calif., now by change of name Cinch Products, Inc. Republished by Cinch Products, Inc., Los Angeles, Calif., a corporation of California.



The word "Products" is disclaimed apart from the mark as shown.
For Hot Cake Mix, Corn Bread Mix, Waffle Mix, and Cake Mix.
Claims use since Aug. 4, 1943.

Reg. No. 444,738. Registered Nov. 18, 1952. Red-Ee Foods, Inc., Los Angeles, Calif., now by change of name Cinch Products, Inc. Republished by Cinch Products, Inc., Los Angeles, Calif., a corporation of California.

Cinch

For Fudge Mix, Hot Cake Mix, Corn Bread Mix, Waffle Mix, and Cake Mix.
Claims use since Aug. 4, 1943.

CLASS 47

WINES

Reg. No. 307,453. Registered Oct. 24, 1933. B. Cribari & Sons, San Jose, Calif. Republished by B. Cribari & Sons, Fresno, Calif., a firm.

Las Palmas

For Wines.
Claims use since 1931.

CLASS 48

MALT BEVERAGES AND LIQUORS

Reg. No. 306,513. Registered Sept. 19, 1933. T. B. Hall & Co., Limited, Liverpool, England. Republished by Arthur Guinness, Son & Co. (Dublin) Limited, Dublin, Ireland, a joint stock company of the Republic of Ireland.

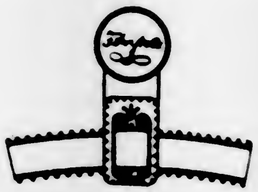


For Malt Beverages With Not More Than the Legal Alcoholic Content.
Claims use since July 23, 1874.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 46,216. Registered Sept. 12, 1905. F. Hoyt & Company, Limited, Philadelphia, Pa. Republished by Hoyt Co., Inc., Memphis, Tenn., a corporation of New York.



For Perfumery.
Claims use since May 7, 1886.

Reg. No. 300,288. Registered Jan. 10, 1933. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

BRISGO

For Depilating Compound.
Claims use since about Aug. 5, 1932.

Reg. No. 304,033. Registered June 20, 1933. Yardley & Company Limited, London, England, a company of Great Britain and Northern Ireland. Republished by registrant.

YARDLEY'S

For Face Powders and Face Creams.
Claims use since 1890.

Reg. No. 306,693. Registered Sept. 26, 1933. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

REDHEAD

For Lipsticks and Rouge.
Claims use since December 1931.

Reg. No. 422,303. Registered July 16, 1946. Irene Blake Cosmetics, Inc., also doing business as Irene Blake, New York, N. Y., assignor to Evelyn Westall, trading as Evelyn Westall Company. Republished by Parfums Evyan, Inc., New York, N. Y., a corporation of New York.

DIVERSION

For Perfume, Cologne, and Dusting Powder.
Claims use since Apr. 15, 1943.

Reg. No. 433,759. Registered Oct. 28, 1947. Consolidated Cosmetics, Chicago, Ill. Republished by Parfums Evyan, Inc., New York, N. Y., a corporation of New York.

SURPRISE

For Face Powder, Perfume, Lipstick, and Cologne.
Claims use since Sept. 21, 1946.

Reg. No. 444,506. Registered June 5, 1951. Parfums Evyan Inc., New York, N. Y., assignee of Evelyn Westall, doing business as Parfums Evyan Co. Republished by Parfums Evyan, Inc., New York, N. Y., a corporation of New York.

WHITE
SHOULDERS
SPLASH

For Perfume, Toilet Water, and Cologne.
Claims use since May 23, 1946.

REISSUES

NOVEMBER 24, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,742

FUNGICIDAL SALTS OF ALKYLENE BISDITHIOCARBAMIC ACID

William F. Hester, deceased, late of Drexel Hill, Pa., by Rohm & Haas Company, assignee, Philadelphia, Pa., a corporation of the State of Delaware

No Drawing. Original No. 2,317,765, dated April 27, 1943, Serial No. 407,674, August 20, 1941. Application for reissue October 24, 1952, Serial No. 316,821

8 Claims. (Cl. 167—22)

6. The process of controlling fungus growth on living plants which comprises applying to the plant a fungicidal composition having as an active ingredient a salt of an alkylene bisdithiocarbamic acid.

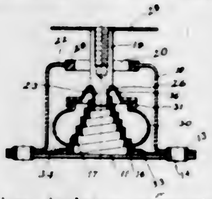
23,743

VIBRATION ISOLATOR

Frank Lambert, Jr., West Newton, and Charles E. Crede, Winchester, Mass., assignors to The Barry Corporation, a corporation of Massachusetts

Original No. 2,610,017, dated September 9, 1952, Serial No. 27,948, May 19, 1948. Application for reissue September 24, 1952, Serial No. 311,340

5 Claims. (Cl. 248—358)



3. A vibration isolator comprising a *single* main resilient member for carrying the load, an enclosure member for said main resilient member having a resilient side wall and a rigid top wall and forming a chamber about the main resilient member, said side wall being symmetrical with respect to the vertical axis of the main resilient member and spaced outwardly a substantial distance from the main resilient member throughout substantially its entire length, the upper end of said enclosure side wall being attached to said rigid top wall, a mounting stud attached to said top wall and being adapted to transmit the load to the upper end of the main resilient member, said enclosure member being substantially impervious to air, said top wall having a relatively small aperture, whereby air is caused to flow through said aperture upon deflection of said main resilient member and thereby causes damping to prevent excessive excursion of the mounted equipment without frictional engagement between said outwardly spaced side wall of the enclosure member and the main resilient member.

23,744

PUSH AND PULL FRICTION TYPE EXERCISER

Herbert N. Magida, Chicago, Ill.

Original No. 2,543,729, dated February 27, 1951, Serial No. 17,567, March 27, 1948. Application for reissue February 5, 1953, Serial No. 335,408

12 Claims. (Cl. 272—79)



2. In an exercising device of the class described, a pair of arms having flat disks at one end, said disks [extending] *being offset inwardly* substantially at right angles to the axis of said arms and in spaced relation, a friction disk between said pair of disks, a second friction disk positioned against the outer face of one of said first mentioned disks, a rotatable and adjustable disk positioned against said second friction disk, a screw bolt connecting all of said disks and having threaded relation with said rotatable disk *about an axis offset inwardly from said arms*, means for fixedly securing said bolt to the outer disk of said pair for preventing relative rotation thereof and means for releasably locking said bolt to said rotatable disk for causing conjoint rotation thereof.

PLANT PATENTS

GRANTED NOVEMBER 24, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,231

FUCHSIA PLANT

Horace M. Tiret, San Francisco, Calif.

Application December 22, 1952, Serial No. 327,463

1 Claim. (Cl. 47—60)

The new and distinct variety of fuchsia plant herein described and illustrated, characterized by the sulferino purpose coloring of the petals contrasted with the waxy white sepals.

PATENTS

GRANTED NOVEMBER 24, 1953

GENERAL AND MECHANICAL

2,659,885
MANUALLY OPERATED WIRE STITCHING MACHINE
Wilfred Kirby, London, England, assignor to Vickers-Armstrongs Limited, London, England, a British company
Application August 28, 1951, Serial No. 244,059
Claims priority, application Great Britain August 30, 1950
12 Claims. (Cl. 1—2)



1. A manually operated wire stitching machine, comprising a frame, a shaft mounted for rocking motion in said frame, cam means mounted on said shaft, manually operated lever means for rocking said shaft and producing a corresponding angular oscillation of said cam means, staple preparing mechanism for feeding wire stock and for cutting the fed wire to produce a staple blank, staple forming and driving mechanism for forming a prepared blank into a staple and driving the staple into the work, means for delivering a prepared blank to said driving and forming mechanism, cam surfaces on said cam means for causing simultaneous actuation of both said blank preparing mechanism and said forming and driving mechanism during each complete angular oscillation of said cam means, and means for controlling the operation of said delivery means, said controlling means being actuated in timed relationship with said forming and driving mechanism, so that while a staple is formed and driven into the work a further blank is prepared and delivered into position for forming and driving during the next succeeding complete angular oscillation of said cam means.

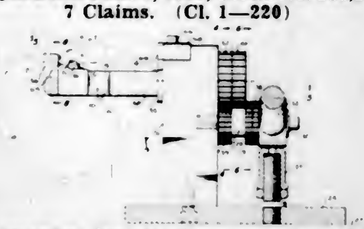
2,659,886
FASTENER INSERTING MECHANISM
Robert H. Bliss, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 4, 1952, Serial No. 274,743
9 Claims. (Cl. 1—18)

1. A fastener driving mechanism comprising a housing, an upright guideway formed on the interior walls of the housing, a cocking plunger mounted in the upper portion of the guideway, a driving plunger mounted in the lower portion of the guideway, a spring nested between said plungers tending to force them apart, a latch engageable with the driving plunger for normally holding that plunger inoperative in an elevated position, power actuated means engageable with the cocking plunger for depressing it against the action of the spring while the driving plunger is latched, latch release means including a member carried by the cocking plunger for actuating the latch to release the driving plunger after the spring has been compressed, a resilient wafer-



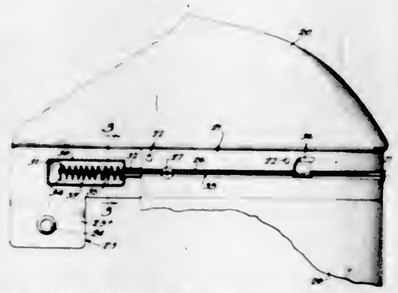
like bumper affixed at the lower end of the guideway so as to engage the driving plunger at the end of its driving stroke to arrest its movement, a reset link provided with a lost motion connection to the driving plunger, and means for raising the link and driving plunger while the power actuated means is disengaged from the cocking plunger and while the upward movement of the spring is unrestrained whereby the plungers and spring are elevated concomitantly to their inoperative position without effecting a compression of the spring.

2,659,887
APPARATUS FOR SECURING EYE MECHANISMS IN DOLL HEADS
Paul Rekettye, Akron, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio
Application June 5, 1950, Serial No. 166,194
7 Claims. (Cl. 1—220)



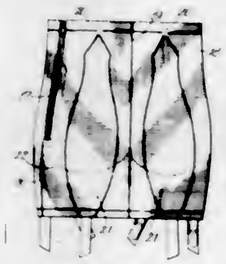
1. Apparatus for attaching an eye mechanism to a rib formed on the interior of a doll head, said eye mechanism comprising a plate having at one end a deformable clasp to be embedded in opposite sides of the rib and at the other end a shaft to which the eyes are fastened, said apparatus comprising a housing, a rotating sleeve, and a rotatable shaft coaxial therewith, said shaft and sleeve projecting from the housing and adapted to be inserted in the head of the doll, jaws having opposed radial faces attached to the ends of the sleeve and shaft respectively, an arm on the apparatus adapted to be inserted in the head of the doll, a rest on the end of the arm for the eye mechanism, and means for causing the shaft and sleeve to rotate in opposite directions and to equal extents to bring the jaws together simultaneously against the clasp of the eye mechanism and embed it in the rib.

2,659,888
PROTECTIVE DEVICE
Robert Malcom, Jr., Chicago, Ill., assignor to Chicago Eye Shield Company, Chicago, Ill., a corporation of Illinois
Original application July 28, 1950, Serial No. 176,400, now Patent No. 2,606,321, dated August 12, 1952. Divided and this application February 6, 1952, Serial No. 270,202
7 Claims. (Cl. 2—8)



1. In a face shield, a relatively rigid curved support adapted to overlie the forehead of the wearer, a relatively flexible shield having its upper margin engaging the outer surface of the curved support and adapted to overlie the face of the wearer, interengaging parts on the support and shield for locating the shield in place on the support but allowing relative longitudinal movement of the support and shield, a band engaging the outer surface of the upper margin of the shield, spring means carried by the support adjacent the ends of the band, and means for detachably securing the spring means to the band for resiliently clamping the shield in place on the support.

2,659,889
FOUNDATION GARMENT
George L. Diebold, Chicago, Ill., assignor to Venus Foundation Garments, Inc., Chicago, Ill., a corporation of Delaware
Application May 20, 1952, Serial No. 288,923
14 Claims. (Cl. 2—37)



1. In a garment of the character described having connected front and back portions, a back portion comprising a main panel of horizontally stretchable material and a pair of elongated control panels having their longitudinal dimensions extending vertically relative to said main panel and disposed in transversely spaced relation with part of said main panel secured therebetween to the side edges of said control panels, said control panels having greater resistance to horizontal stretching than said main panel and being spaced a predetermined distance whereby to overlie the respective buttock areas of the wearer during use.

2,659,890
GOLF JACKET
Johnny F. Revolta, Evanston, Ill.
Application April 17, 1951, Serial No. 221,383
3 Claims. (Cl. 2—93)

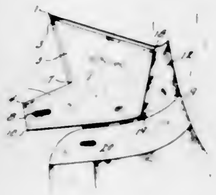


1. In a sleeved garment having front and back panels each having an edge defining a portion of an armhole, said panels having side edges and top edges to be joined by side seams and shoulder seams respectively, the edges of the back panel forming part of the armhole being materially longer than the edge of the front panel at the armhole, so that when said panels are joined, the shoulder seam is located forwardly of the upper center of the armhole, a sleeve formed of two sections joined by one seam substantially parallel to the warp threads to form a panel roughly trapezoidal in shape with upwardly and outwardly inclined side edges and a relatively flat compound curve for the upper edge, which has a convex portion near its midpoint and curves upwardly at each outer corner to a sharp peak, said side edges and upwardly extending curves being bias cut with respect to the warp and weft, another seam joining said outer edges of said sleeve panel thereby forming a sleeve, said sleeve being attached to the armhole edge so that the second-mentioned sleeve seam forms a substantial continuation of the side seam thereby locating the peak portions at the armpit region and the first-mentioned sleeve seam being at the back substantially midway of the arc of said back armhole edge, the location of the peaks causing the bias cut armpit portions of the blank to have greater flexibility without bulkiness.

2,659,891
ATTACHMENT FOR END PORTIONS OF SOFT FOLD COLLARS
Norman P. St. John, Jacksonville, Fla.
Application July 13, 1950, Serial No. 173,612
1 Claim. (Cl. 2—132)

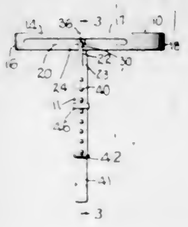
A soft fold collar with a folded-over portion having two free ends, two complementary and

separate unitary six-sided fabric attachments permanently sewed to the rear side of each end respectively, which complementary fabric attachments extend rearwardly of the said free ends for a substantial distance and substantially for the full height of the folded over portion, said complementary members each having a free protruding portion, the protruding portion ex-



tending forwardly from the upper portion of each complementary member in turned-down position, and having its top edge in substantial alignment with the folded-over upper edge of the collar, and adapted to overlap between the ends of the collar when the collar is being worn, each protruding portion having a buttonhole adapted to be aligned with the button in the neckband of the collar.

2,659,892
ADJUSTABLE COLLAR STAY
Fred Lamont Sharp and Charles Linder Levtwyler, Austin, Tex.
Application October 1, 1951, Serial No. 249,132
5 Claims. (Cl. 2—132)



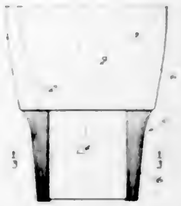
1. A collar stay, comprising, an arcuate plate element adapted to fit beneath the fold of a folded over collar, said plate element having a longitudinally extending elongated slot formed therein, a vertical stay member adjustable in length to stiffen a tab of the collar, a clamp formed at the upper end of the stay member received in said slot for lateral sliding movement therein relative to the plate element whereby said stay member may be adapted for use for various types of collar.

2,659,893
COMBINATION UNDERGARMENT
Jeanne H. Hindman, Cincinnati, Ohio
Application May 19, 1952, Serial No. 288,635
2 Claims. (Cl. 2—212)

1. A combination garment comprising a half-slip including a continuous, elastic upper edge, a complete panty including a continuous upper edge, means elastically securing the upper edge of said panty to the slip below the upper edge thereof for providing, immediately above said panty, a continuous, hip-encircling band the upper and lower edges of which are defined by continuous, torso-circumscribing, elastic zones.

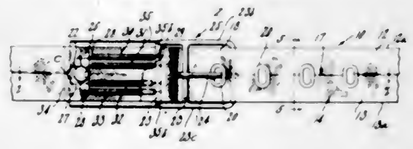


2,659,894
LEATHER JACKET SLEEVE
Sam Slater, San Francisco, Calif., assignor to S. Slater and Son, San Francisco, Calif., a corporation of California
Application April 15, 1952, Serial No. 282,343
1 Claim. (Cl. 2—270)



A jacket sleeve having a relatively large opening at the lower edge thereof, the sleeve formed of a relatively inelastic material; a constricting cuff for said sleeve comprising two sections, one of which is formed of material corresponding to the sleeve material and joined to the sleeve along a portion of the lower edge thereof, and a second section formed of a relatively elastic material secured to said sleeve along the remaining portion of said lower edge and secured at its opposite sides to said first section for substantially the entire length of the second section, said first section being positioned on the inside of said sleeve normally adjacent the main body of the jacket.

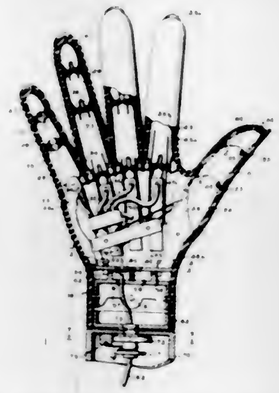
2,659,895
BELT
Jack Horowitz, Brooklyn, N. Y.
Application September 29, 1948, Serial No. 51,800
3 Claims. (Cl. 2—322)



1. A belt and similar article of support comprising an elongated body of flexible fine metallic wire mesh, said body including a front wall having a rear face and opposite longitudinal edges, rear wall flaps extending from said longitudinal edges rearwardly of said front wall and overlying

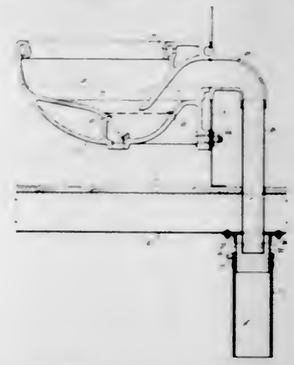
the rear face of said front wall, spaced apart grummets positioned adjacent one end of said body and connecting said rear wall flaps with said front wall, a buckle provided with a tongue element, means on said buckle hingedly connecting said tongue element to said buckle, a loop arranged at the other end of said body and passing around a portion of said buckle, rivet means passing through said loop to close the same, said tongue element being engageable with one of said grummets to close said belt, yoke means pivotally engaging said rivet means, and spring means attached to and extending from said yoke means to said portion of said buckle for anchorage on the latter and on said yoke means.

2,659,896
UNIVERSALLY MOUNTED ARTIFICIAL PNEUMATIC HAND
Angelo Biasi, Wilkes-Barre, Pa.
Application December 18, 1951, Serial No. 262,278
8 Claims. (Cl. 3—12.7)



1. In an artificial hand, the combination, with a generally flexible and elastically stretchable casing therefor, of a plurality of inter-articulated members including a metacarpal member, four fingers and a thumb the several parts being pivotally interconnected to simulate the structure of a human hand, three members representative of the three actual phalange bones of each such elongate finger and thumb, in the case of each finger and the thumb the two outer ones of said members being pivotally interconnected and the innermost one thereof being pivotally connected to said metacarpal member, resiliently acting means associated with each of such pivotal connections for normally urging said finger and thumb members to non-grasp dispositions relative to the palm side of said metacarpal member, and pneumatically actuated means operable at will for moving said finger and thumb members more and more as desired toward said metacarpal member for grasp-efficacious coaction therewith, the means last-named including a master bellows, said metacarpal member being cavitated and said last-named means also including a plurality of pneumatic cylinders and pistons, all in such cavitation, each piston having a cross head extending through slots in its cylinder and each piston being operatively connected by an elongate flexible pull element to a plurality of the said members of a different one of the artificial fingers and thumb of the hand, said pull elements being present to a total of a pair thereof relative to each of the fingers and thumb and each of said pairs being arranged to be simultaneously pulled by a piston cross head thereby simultaneously to move all three members of the associated finger or thumb toward said metacarpal member.

2,659,897
VENTED HOPPER CHUTE FOR RAILWAY CARS OR THE LIKE
George C. Smith, Glenside, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 23, 1948, Serial No. 34,636
4 Claims. (Cl. 4—8)

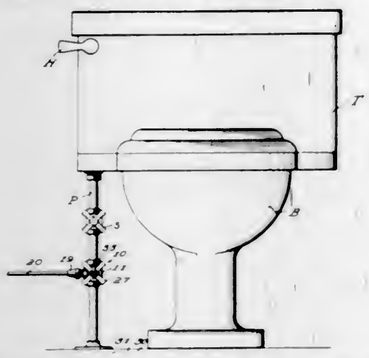


4. Hopper discharge means for a water-seal hopper of a vehicle which by its travel velocity tends to create suction by the passage of air across the lower end of the usual discharge tube to draw liquid from the seal, the improved means for avoiding the seal-breaking suction, comprising in combination, a water-seal hopper supported by the floor of the vehicle, a hopper discharge siphon tube extending from the hopper to provide a siphon passage extending upwardly and then downwardly to an open end below the floor, an outer discharge tube surrounding the siphon tube and extending above and below its open lower end, said outer tube being provided with openings to the outside located above and near the lower end of the siphon tube, said openings being so formed and located and being free of air directing elements as to provide vacuum-breaking means for the lower end of the siphon tube.

2,659,898
APPARATUS FOR AVOIDING MOISTURE CONDENSATION ON TOILET FLUSH TANKS
Robert W. Toye, Winona, Minn.
Application January 3, 1949, Serial No. 68,868
3 Claims. (Cl. 4—18)

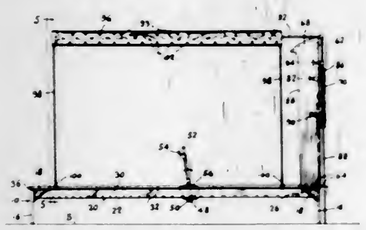
1. Apparatus for tempering cold water admitted through a supply pipe to a flush tank whereby to raise the temperature of the external wall of the tank to prevent condensation of moisture from a humid atmosphere thereon, which comprises a valve structure in the supply pipe, a conduit extending from a hot water source and having an end thereof connected to and in communication with the valve structure and a valve in such structure operative to vary the relative volumes of hot and cold water passing through the valve structure and supply pipe to the tank, said valve structure comprises a housing having an elongated cylindrical valve receiving opening therein and which is closed at one end by a flat wall, the housing having axially alined

threaded sockets for connection in the supply pipe, axially alined ports communicating with said sockets and said opening above said bottom wall, the said opening and ports providing for passage of cold water through the valve structure, a further port having one end thereof communicating with said opening and having its axis at right angles to the axes of said first ports



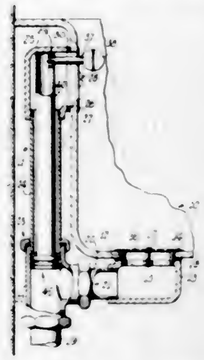
and in the plane of said axis, a hot water supply conduit communicating with the other end of said last port, and said valve being of cylindrical form and being rotatably supported in said opening and including a relief and a segment adjacent the plane of said ports for controlling the relative volumes of hot and cold water passing through the valve structure.

2,659,899
RECUMBENT SHOWER BATH
Kirk P. Willis, Wagoner, Okla.
Application February 1, 1952, Serial No. 269,362
1 Claim. (Cl. 4—145)



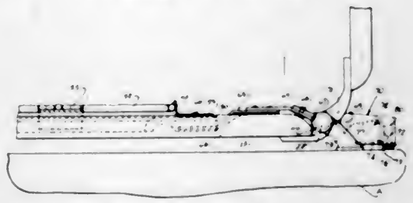
A collapsible shower unit comprising a frame having parallel side and end bars, legs carried by the frame for holding said frame spaced above a supporting surface, a bottom having spaced drain openings extending therethrough, side and end walls carried by the bottom and extending upwardly from the perimeter thereof and defining with said bottom a shallow pan, flanges carried by the side and end walls and extending outwardly therefrom adjacent the upper edges thereof for engaging the side and end bars of the frame and supporting the pan on the frame in spaced relation to the surface, support rods having arcuate feet removably mounted on the side flanges of the pan and extending upwardly therefrom, said support rods converging toward a plane intersecting the longitudinal axis of the frame as they recede from the side flanges, a transversely arched deflector plate carried by the support rods adjacent the upper ends thereof and extending above the pan in spaced relation thereto, a duct carried by and extending longitudinally in spaced relation below the deflector plate, said duct having upwardly and outwardly directed spray openings extending therethrough for directing water introduced into the duct upwardly and outwardly against the deflector plate from whence it drips upon a person lying prone in the pan.

2,659,900
DRAIN ASSEMBLY
Morris H. Chudnow, New York, N. Y.
Application June 26, 1950, Serial No. 170,416
3 Claims. (Cl. 4—199)



1. A waste of the character described comprising a waste and overflow T having an upper, a lower, and a horizontal leg; a stand-pipe connected to said upper leg; an overflow pipe positioned within said stand-pipe for axial movement therein, the lower end of said overflow pipe extending into said T; and valve means connected between and in yielding contact with said overflow pipe and with the inner walls of said T for selectively sealing and unsealing the lower leg of said T, said valve means comprising a resilient O-ring positioned about the overflow pipe near its lower end to maintain said contact with both said overflow pipe and said walls of the T for all positions of said overflow pipe, and movable to seal off slotted drain openings in the lower end of the overflow pipe, from said horizontal leg, when the overflow pipe has been moved to its lowered position and means spaced along the walls of the lower leg of said T for limiting the axial movement of said O-ring relative thereto.

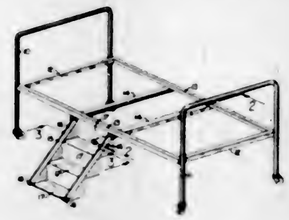
2,659,901
LAVATORY ATTACHMENT
Henry G. Paulus, Burlington, Vt.
Original application February 18, 1948, Serial No. 77,191. Divided and this application June 20, 1950, Serial No. 169,272
2 Claims. (Cl. 4—239)



1. In combination with a child's toilet seat adapter having collapsible arm and back rests, a

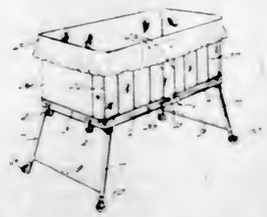
hinge forming the sole means for connecting said adapter to a bearing shaft of a toilet bowl, an arm on the hinge projecting rearwardly beyond the shaft, said arm, hinge and adapter being together rotatable about said shaft, a stationary housing and a spring mounted therein, said spring extending into the path of movement of said arm during rotation of said hinge, and cooperating with said projecting arm to yieldingly resist movement of the seat adapter when the latter is opened, and a second spring mounted in said housing and cooperating with the first-mentioned spring to yieldingly resist closing movement of the seat adapter.

2,659,902
HOSPITAL BED LADDER
Antonia N. Fitzgerald, Denver, and Burnard C. Garrabrant, Edgewater, Colo.
Application July 14, 1951, Serial No. 236,778
6 Claims. (Cl. 5—92)



1. The combination with a bed frame having spaced, parallel side rails, of a straight slide track formed with like open ends carried by, beneath, and to bridge transversely between said rails with its open ends directly laterally of the opposite sides of the bed frame, a step flight unit slidably and releasably engaged at each of its ends with and for shift in either direction along and through either open end of said track for extension therefrom at either side of the bed frame, and means for latching a track-engaged end of the relatively-extended unit to said track when the unit free end is lowered into floor engagement.

2,659,903
FOLDABLE CRIB
Lydia Adolfina Hagelfeldt, Chicago, Ill., assignor of one-third to George Blomquist, New York, N. Y.
Application January 4, 1950, Serial No. 136,795
4 Claims. (Cl. 5—99)



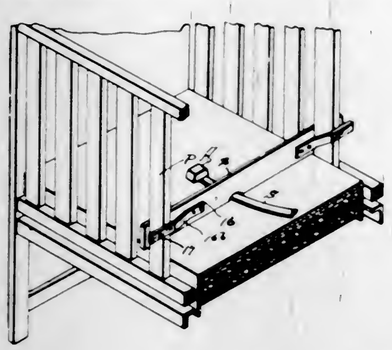
1. A foldable crib comprising two substantially symmetrical sections, each of said sections comprising a substantially U-shaped rigid frame member, a pair of legs, each leg being pivoted to one corner of a frame member, a wall unit hinged to the base branch of each U-member, said wall unit including an end element corresponding in length substantially to said base branch and two side elements each corresponding in length substantially to a side branch of the U-member and pivoted to the end element for folding the side elements back upon the end element, first locking means on the end element for releasably securing the end element to the U-member in a position substantially vertical to the plane of the U-member and for locking the legs in a frame supporting position relative to the plane of the U-member, the first locking means comprising a pair of stud-shaped extensions positioned at each lower corner of an end element, each of said U-members having transverse holes in each corner and each leg having a laterally extending bracket provided at one end of the U-member and formed with a hole through the said bracket, the respective U-member and the leg holes being in alignment when the legs are in said frame supporting position for passing the respective extensions through said aligned holes thereby locking the legs in the frame supporting position and the end elements of said vertical position, second locking means on each of the side elements for releasably securing each of the said elements to its respective side branch of the U-member in alignment therewith, the said second locking means comprising an extension at the lower free end of each side element extending downwardly therefrom, said U-members including a transverse hole at the end of each side branch for receiving the respective extensions of the side elements when a side element is in alignment with the respective side branch of a U-member thereby releasably locking the side elements in the said aligned portions, hinge means for joining the free ends of the respective side branches of the two U-members; and third locking means holding the free ends of the respective side branches of the U-members in aligned positions, thereby forming a substantially rectangular rigid crib frame with said end and side elements of the wall units forming the side walls of the crib.

2. A foldable crib as described in claim 1, wherein said hinge means comprise complementary hinge elements at the end of each side branch of each U-member for hingedly joining the U-members of the said two crib sections, and wherein a locking sleeve is slidably mounted on each side branch of one of the U-members, said two sleeves being adapted to be slid over the hinge elements of adjacent side branches, thereby locking said side branches in aligned positions to form a substantially rectangular frame for the crib, and wherein a pin extends from the free base corner of each side element, said side branches of the U-members and said sleeves having transverse holes therethrough arranged and positioned to receive said pins for locking the sleeves against axial displacement and said side elements in positions substantially parallel to the respective side branches of the U-members.

2,659,904
CRIB SHORTENING, COVER-HOLDING DEVICE, AND BABY ANCHOR
Walter McGinnis, Alhambra, Calif.
Application May 5, 1949, Serial No. 91,516
3 Claims. (Cl. 5—320)

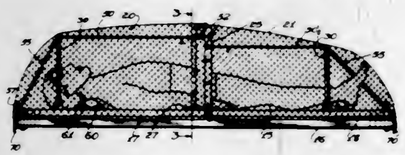
1. The combination with a baby crib having side pickets, of a bed cover retaining and baby habit-forming device including a holding down piece for arrangement across the crib covers, and clamp members fastened on one side, and on opposite ends, of said piece and having resilient limbs laterally spaced from and outwardly overhanging the respective ends of said piece; said

clamp members each being readily applied to and detached from a picket at a respective side of the crib and including longitudinally tapered, end-for-end reversible washer interposed between each clamp member and an end of said piece whereby to provide for various degrees of lateral adjustment of the respective clamp limbs, as to said piece.



2. The combination of claim 1; and supplementary washers interposed between said tapered washers and the piece for further spacing of the said limbs from the said piece.

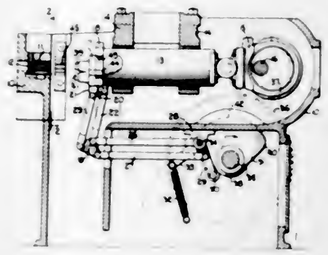
2,659,905
SUNBATH TENT
Michael J. Rochford, Chicago, Ill.
Application July 25, 1951, Serial No. 238,469
5 Claims. (Cl. 5—362)



1. A sunbath tent comprising a base pad elongated to accommodate a person in the lying position, a cover of netted fabric surmounting the base pad and secured at the bottom to the edge of the same, and means to maintain the cover in a position sufficiently raised to freely accommodate the person, said means comprising a cross-arch in the center of the tent, a pair of cross-arches near the ends thereof, the latter cross-arches being pivotally mounted upon said base pad to swing from upright positions downwardly upon the base pad, cords extending from the latter arches and terminating with hooks engageable with the center arch, and springs extending outwardly from said latter arches and terminating with hooks engageable with the end portions of said pad to draw said cords into taut condition.

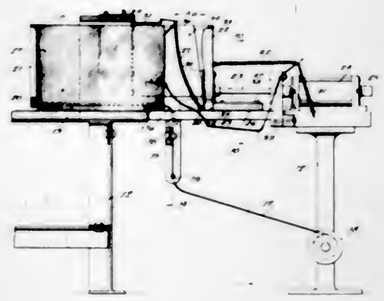
2,659,906
HEADING AND LIKE MACHINE
Alexander Basil Watt, Handsworth, Birmingham, England, assignor to G. K. N. Group Services Limited, Smethwick, England, a British company
Application June 19, 1952, Serial No. 294,434
6 Claims. (Cl. 10—12.5)

1. In a heading machine of the kind having a die through which stock is fed and a reciprocating ram having a head upon which is mounted a movable punch carrier carrying two spaced punches, the carrier being movable transversely to the direction of movement of the ram to bring the punches into action alternately; mechanism for moving the carrier transversely comprising, a member mounted for floating movement, a pair of primary links, parallel and of equal length, one connecting said floating member to



the ram and one connecting said floating member to the punch carrier, a pair of secondary links, parallel and of equal length acting at one pair of ends on said member and operating means acting on the other pair of ends of said parallel links said operating means being driven in timed relationship with the reciprocation of the ram to cause periodic movement of the punch carrier from one end of its travel to the other.

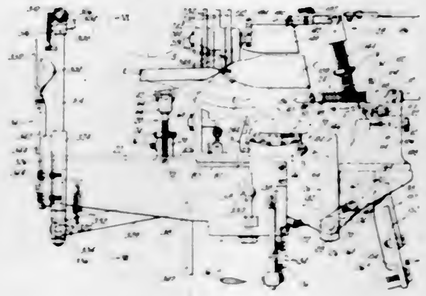
2,659,907
MACHINE FOR FORMING BUNDLES OF SIGNATURES
Lawrence I. Kramer, Park Forest, Ill., assignor to R. R. Donnelley & Sons Company
Application August 20, 1952, Serial No. 305,361
11 Claims. (Cl. 11—1)



1. A machine for forming a bundle of signatures, comprising: a frame having a table provided with an opening through which a wire may be drawn and turned into a plane parallel to the face of said table; an abutment plate slidably mounted on the table and adapted to grip the end portion of the wire; and a pusher-plate mounted on the frame to move towards and from said abutment plate to open and close a signature receiving pocket adjacent to the wire opening, said

plate having a slot to clear the wire and force the slit portion of a signature into frictional gripping engagement with the wire after the signature has been inserted into the pocket.

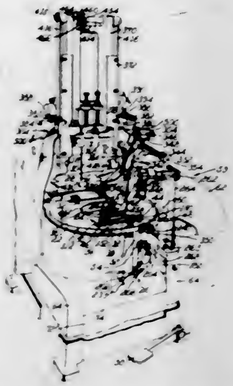
2,659,908
MEANS FOR APPLYING PLATFORMS AND TURNING THE TOE ENDS OF PLATFORM COVERS
Paul W. Senfleben, Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 9, 1950, Serial No. 148,652
13 Claims. (Cl. 12—1)



1. In a machine for use in the manufacture of shoes, a support for a last on which is mounted a partially completed platform shoe having an upper, a sock lining, and a platform cover united by stitching, the heel portion of the platform cover having been turned right side out to form a pocket and the forepart of the platform cover being still unturned and wrong side out, a guideway along which the support is movable between two stations, a member fixed against movement in a direction lengthwise of the guideway for causing the heel portions of the platform cover and the sock lining to be conformed to the shape of the heel seat of the last upon relative movement between said fixed member and the support, means for urging the support along the guideway to effect said relative movement and thereby to facilitate the laying of the heel end of a platform unit on the heel end of the sock lining, and means at the other station for turning the forepart of the platform cover into right-side-out position.

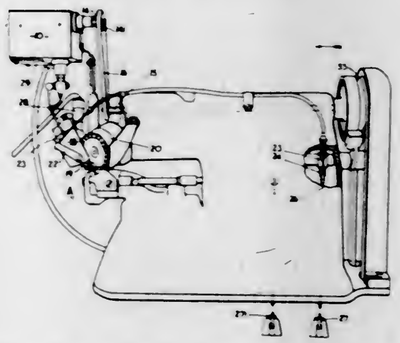
2,659,909
HEEL BREASTING MACHINE
Lawrence Mawbey, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 2, 1952, Serial No. 264,443
Claims priority, application Great Britain January 23, 1951
24 Claims. (Cl. 12—47)

1. In a heel breasting machine, a platform, a pair of grippers spaced to receive between them a heel supported by said platform, means for effecting relative movement of said grippers in a path disposed generally parallel to a heel engaging surface of said platform to seize the heel, means for effecting relative movement between the platform on the one hand and the grippers on the other hand in a path disposed at substantially right angles to said first-named path to cause



the seized heel to be clamped against the platform, and means for breasting the heel.

2,659,910
BINDING TURNING MACHINE AS EMPLOYED IN THE MANUFACTURE OF FOOTWEAR
Cyril George Greatholder, Stafford, England, assignor to Lotus Limited, Stafford, England, a limited corporation of Great Britain
Application October 21, 1952, Serial No. 315,982
7 Claims. (Cl. 12—55)

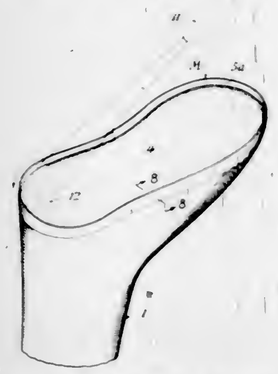


1. A rotary binding machine for use in the manufacture of footwear incorporating a rotary turnover and pressure applying roller, means for effecting a rotation of the said roller, a clutch device for bringing the said roller into and out of action and means under the control of the operator for controlling the operation of the said clutch, embodying in combination, an adhesive reservoir, an adhesive feed orifice located adjacent to, but immediately in advance of the aforesaid roller, valve means for controlling the flow of adhesive between the reservoir and the feed orifice and means interconnecting the said valve means and the said clutch control which operates in a manner such that when the control is operated to engage the clutch, the said valve means is opened to permit adhesive to be discharged from the feed orifice and such that when the said clutch control is operated to effect the disengagement of the clutch the valve means is operated to cut off communication between the reservoir and the feed orifice.

2,659,911
METHOD OF PRODUCING RETAINER-WELT SLIPPER SOCKS

Maurice Spack, Brookline, Mass., assignor to Connecticut Footwear, Inc., Shelton, Conn., a corporation of Connecticut

Original application November 17, 1950, Serial No. 196,299, now Patent No. 2,581,728, dated January 8, 1952. Divided and this application December 29, 1951, Serial No. 264,047
2 Claims. (Cl. 12—142)

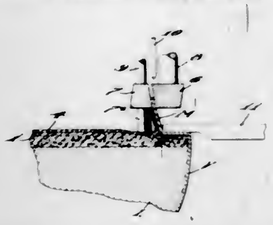


1. In a method of making a slipper sock from a sock, a sponge rubber outer sole and a bendable welt strip, the steps which comprise locating a sock on a last, providing a welt having adhesive on one marginal portion only of said welt, the other marginal portion of said welt being free of adhesive, affixing the adhesive-bearing portion only of said welt, and the adhesive thereon, to the side portion of the foot of said sock around the entire periphery thereof, applying adhesive by spraying to the inner face of said other portion of said welt and simultaneously to the outer face of the bottom wall of said foot of the sock, bending said other portion of the welt inwardly to contact said outer face of the bottom wall of said foot of the sock, applying adhesive to the outer face of said inwardly bent portion, and adhering an outer sole to said bent portion of said welt.

2,659,912
METHOD OF MAKING GOODYEAR-WELT SHOES

Albert Kamborian, Newton, Mass., assignor to Jacob S. Kamborian, West Newton, Mass.

Application October 8, 1949, Serial No. 120,279
1 Claim. (Cl. 12—145)



The method of making shoes of the Goodyear-welt type wherein the lasting allowance of an upper, assembled with an insole upon a last, overlies the feather of the insole and, prior to attachment of the welt to the sewing rib of the insole, is secured to the rib by adhesive only, the outer face of the sewing rib of the insole having previously been coated with a normally non-tacky thermoplastic adhesive and the lasting allowance of the upper being of a width exceeding the combined widths of the feather and rib of the insole, said method comprising as steps supporting the shoe against a fixed abutment, a portion of which engages the insole at the base of the rib at the inner side of the latter and another portion of which engages the inner surface of the lasting allowance at the free margin of the latter, directing a jet of hot fluid against the adhesive coating, applying a positive updrafting stress to the free marginal portion only of the lasting allowance while the shoe is being restrained by said abutment against upward movement and, without ceasing to apply the updrafting stress, causing the point of application of said stress to progress continuously and uninterruptedly about the periphery of the insole, and, as the point of application of updrafting stress progresses, applying inwardly directed force to the stressed portion of the lasting allowance for working the latter inwardly over the feather of the insole and for pressing it against the adhesively coated surfaces of the feather and rib thereby to unite the lasting allowance to the insole.

2,659,913
STABILIZED SUSPENSION LINE

Raymond C. Baird, Los Angeles, Calif., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California

Application November 7, 1949, Serial No. 125,965
7 Claims. (Cl. 14—19)

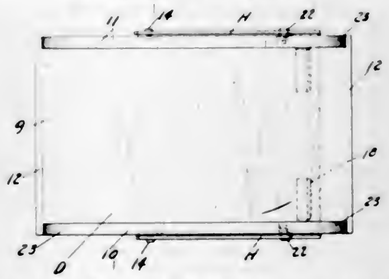


1. The combination comprising an elongated pipe line of substantially circular cross-section suspended in the air so that the line is subject to the vibration-inducing tendencies of adjacent eddy currents produced by transverse winds, a flexible cable suspension system including cables attached to said line at spaced intervals, a series of baffles each baffle being of varying transverse width extending longitudinally of the line at the side thereof so that the baffles have spaced lateral edges, and means for supporting the baffles in parallelism with the line.

2,659,914
DOCKBOARD

Don C. Law, Bay City, Mich., assignor to Magline, Inc., Pinconning, Mich., a corporation of Michigan

Application July 31, 1950, Serial No. 176,788
4 Claims. (Cl. 14—72)

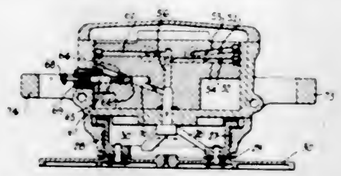


1. In a dockboard adapted to span the space between and provide a connecting runway between two spaced-apart floor structures of different height, a floor plate having raised side rails channel shape in cross section with the flanges thereof extending outwardly, plates spanning the flanges of said side rails adjacent the rear ends thereof, a unitary locking bar to hook over the wall of the lower floor structure and prevent rearward shifting of said dockboard pivotally and removably connected to the outer faces of said plates, said locking bar comprising a pair of legs having downwardly turned hook ends connected by a cross bar, the free ends of said locking bar being connected to said plates, a plurality of openings in the free ends of said locking bar to permit its lengthwise adjustment with relation to said plates, resilient latch members on the outer faces of said rails adjacent the front ends thereof to retain said locking bar in inoperative position, said latch member being affixed to the underface of the upper flanges of said channel-shaped side rails, thence leading outwardly and downwardly from the outer side faces of said rails, thence being turned horizontally and extending outwardly through the vertical planes of the legs of said locking bar to form shelves on which the respective legs of said locking bar are retained when the bar is raised to inoperative position, said latches terminating in inwardly and downwardly bent portions which are disposed in the path of the length of said locking bar so as to be engaged by said legs when said locking bar is swung upwardly to press said latches inwardly and permit said legs to be raised to inoperative position, and stop means depending from the front end of the dockboard to engage the wall of the foremost floor structure and prevent forward slipping of said dockboard.

2,659,915
PORTABLE DEVICE FOR SCRUBBING AND RINSING AUTOMOBILE BODIES AND THE LIKE

Melville Sears, Ridgefield Park, N. J., assignor to Craftmaster Manufacturing Co., Inc., Ashtabula, Ohio, a corporation of Ohio

Application October 28, 1946, Serial No. 706,146
5 Claims. (Cl. 15—29)

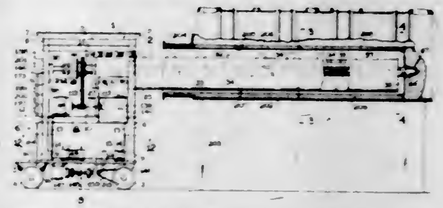


1. A washing device which comprises a casing, means to grip it in the hands of an operator, a water valve therein, a soap valve therein, and an air valve therein, means finger-manipulable connected to said valves whereby they may be operated while the hands grasp the casing, a rotatable brush plate, a fluid motor operatively connected to said plate and to said casing means, a nozzle in said plate, means including said water valve to admit a stream of water to said nozzle, means including said soap valve to admit soap liquid into contact with the stream of water to be mixed therewith, means including said air valve to admit air to said motor, means to exhaust air from the motor into contact with the water and soap stream, and means including said air valve to admit air directly into contact with the water and soap stream by-passing the motor.

2,659,916
COKE REMOVER FOR TAR AND PETROLEUM STILLS AND THE LIKE

Chester A. Lewis, Cleveland, Ohio, assignor to C. A. Lewis, Inc., Cleveland, Ohio, a corporation of Ohio

Application October 7, 1948, Serial No. 53,205
3 Claims. (Cl. 15—104.1)

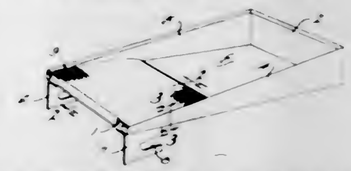


1. A machine for preforming mass boring operations comprising: a main frame, in the form of a ground wheel-supported vehicle; an elongated conveyor comprising an upwardly open trough supported solely on the vehicle and extending forwardly therefrom, a screw in the trough to convey rearwardly material deposited in the trough; a rotary boring tool at the forward end of the trough disposed to deposit borings on the conveyor; power supplying means and power transmission means supported by the vehicle, to drive the tool and screw, and to propel the vehicle forwardly on its supporting wheels, to thereby feed the boring tool into the work to be bored and concurrently feed the trough into the hole bored by the tool; and to propel the vehicle rearwardly to thereby withdraw the tool and trough out of the bored hole; a material discharge outlet at the rear portion of the trough and spout means to direct material by gravity laterally away from the path of the vehicle wheels; steering means on the vehicle whereby an operator riding the vehicle may steer it, while being propelled from a point remote from the work to be bored, to the work, and position the boring tool and conveyor with respect to the work to be bored; and power operable elevator means on the vehicle for raising and lowering the trough and tool.

2,659,917
PAINT TRAY

Vern R. Drum, Marine City, Mich., assignor to The Drum Corporation, Richmond, Mich., a corporation of Michigan

Application April 13, 1950, Serial No. 155,694
8 Claims. (Cl. 15—121.2)



1. In a painting device, a container having a shallow end and a relatively deeper end joined by a sloping bottom, and an open-work member disposed within said container adjacent said shallow end and extending over a portion of the length of said bottom in spaced relation thereto, said open-work member having a flat portion and a curved portion contiguous therewith, said curved portion facing the deeper end of said container and sloping upwardly and away from said bottom adjacent said deeper end, whereby

said curved portion is adapted to guide a paint roller from said container bottom onto said flat portion.

2,659,918
WEED DESTROYING DEVICE
Lewis D. Stoner, Oakland, Calif., assignor to Alston Manufacturing Co., Oakland, Calif., a copartnership composed of Lewis D. Stoner and Ralph Albertson
Application April 12, 1948, Serial No. 20,433
5 Claims. (Cl. 15—131)



1. As an article of manufacture for the destruction of weeds, the combination of an elongated tubular handle of a length sufficient to engage the ground when held in the hand of an operator standing erect and having its ground engaging end expanded to form an axially extending tubular socket, a removable cylindrical fluid container having an open end adapted to be positioned with its closed end engaging the inner end of said socket to thereby center the container therein, a fluid absorbent applicator mounted in the open end of said cylindrical fluid container adapted and arranged to absorb fluid from the interior of said container for application to a weed, said socket also having a plurality of spaced axially extending slots forming flexible fingers that flex inwardly to engage with and center said container within the socket at its outer end, whereby a heat insulating air space will be provided within said socket and about the container that will prevent a sudden expansion of air within said cylindrical container when said socket is exposed to a raising ambient temperature.

2,659,919
DEVICE FOR DISPENSING LIQUID PREPARATIONS THROUGH A BRUSH
Joseph B. McCabe and Paul G. Marconi, Ridgefield, Conn., assignors to Import Products Company, Incorporated, Ridgefield, Conn., a corporation of Connecticut
Application September 10, 1949, Serial No. 115,082
4 Claims. (Cl. 15—136)



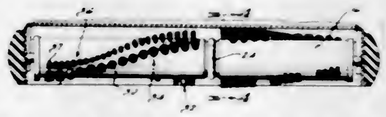
4 A device for containing and dispensing a liquid preparation which comprises a hollow tubular casing which is closed at its upper end, an extension member closing off the bottom end of said casing, said extension member having a through-and-through bore which communicates with the hollow interior of said casing, a brush applicator which comprises a plurality of bristles extending longitudinally through said extension member bore and extending forwardly thereof, the central portion of said applicator being clamped within the wall of said extension member bore at the forward portion thereof, the rear portion of said applicator being wholly located within said extension member bore and being spaced from the wall thereof, the portion of said extension member bore in which the rear portion of said applicator is located being of smaller diameter than the diameter of the hollow interior of said casing, a portion of said casing being compressible from its normal shape by pressure on the outside thereof to decrease the interior volume thereof, said casing portion being sufficiently resilient to return to its normal shape when said pressure is released, said extension member bore extending sufficiently rearwardly of said applicator and being of sufficiently small diameter relative to the diameter of said applicator and the bristles being held sufficiently closely together, all in relation to the surface tension of the liquid preparation, whereby to retain substantially all of said contained liquid preparation rearwardly of said brush applicator against the force of gravity when the internal pressure of said casing equals external pressure.

2,659,920
BOTTLE AND HOLDER THEREFOR
Charles Warren Bogan, Washington, D. C., and Robert L. Ginesi, Burnt Mills Hills, Md.
Application December 6, 1947, Serial No. 790,166
2 Claims. (Cl. 15—140.4)



1. A combination that comprises a bottle adapted to contain a cosmetic fluid such as fingernail polish, said bottle having an opening therein, a cap removably closing the opening of said bottle, a brush type applicator connected to said cap to project into said bottle through said opening, said brush type applicator terminating at a distance above the bottom of said bottle when said bottle is in an upright position so that when the level of the cosmetic fluid in said bottle falls below the end of said brush type applicator, said brush type applicator is unable to dip into said cosmetic fluid, said bottle defining curved frictional seating surfaces on opposite sides of said bottle, said curved frictional seating surfaces being located adjacent the base of said bottle, a holder for said bottle including a base member and a pair of standards, said standards being mounted on said base member in spaced and parallel relationship, each of said standards being resilient and being characterized by a concavity, said standards resiliently and detachably engaging therebetween said bottle through the agency of each of said curved frictional seating surfaces being received in one of said concavities of said standards, to define a pivotal connection with an axis passing through all of said seating surfaces, whereby said bottle is capable of being tilted to any position at an angle to the horizontal and held in tilted position by virtue of the frictional engagement between said curved frictional seating surfaces on opposite sides of said bottle and said standards so that as the fluid contents of said bottle are removed, said bottle can be tilted to bring the remaining fluid contents of said bottle within reach of said brush type applicator.

2,659,921
ROTARY BRUSH FOR SUCTION CLEANERS
Ralph C. Osborn, Bloomington, Ill., assignor to Eureka Williams Corporation, Bloomington, Ill., a corporation of Michigan
Application November 1, 1947, Serial No. 783,533
6 Claims. (Cl. 15—182)



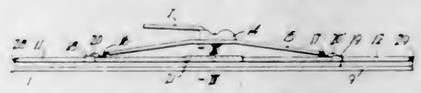
1. A rotary agitator for use with a suction cleaner comprising an elongated roller shaped rotary member having a plurality of brush elements projecting from the peripheral surface thereof, certain of said brush elements being relatively stiff and arranged so as to agitate and beat a surface covering, and other of said brush elements being longer and relatively flexible with respect to said stiff brush elements and arranged to sweep said surface covering, during rotation of said agitator, each of the foregoing types of brush elements being arranged in a separate row extending along the length of said agitator with said stiff brush elements arranged in a row adjacent the row of flexible brush elements so that said flexible brush elements will not interfere with the beating of the surface covering by said stiff brush elements, and another row of brush elements extending along the length of said agitator and forming lint tufts and circumferentially spaced substantially equal distances from the aforesaid rows of brush elements, said lint tufts being shorter and less flexible than said flexible brush elements and longer and more flexible than said stiff brush elements, said row of lint tufts being interrupted by a series of gaps, said rows of brush elements being arranged relative to each other so as to obtain upon rotation of said agitator successive and distinct beating and sweeping actions as distinguished from a continuous brushing action.

2,659,922
OIL GAUGE WIPER
Jacob Klein, Fresno, Calif.
Application July 6, 1949, Serial No. 103,227
6 Claims. (Cl. 15—210)



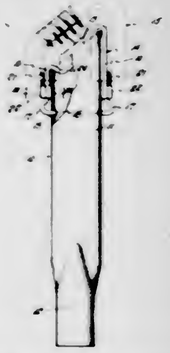
1. In an oil gauge wiper, the combination of: a container defined by opposed spaced flat walls and curved edge walls and having a closed bottom and an open top, a piece of felt folded to provide a folded edge engaging one of said curved walls and two portions in face to face abutting relation with respect to each other to form a slit between said faces with said slit being disposed between and parallel to said flat walls, said portions being compressed within said container, and a tubular guide of oval cross section having an open end located substantially at the open top of said container and having meeting side edges forming a slit communicating with the slit at the abutting faces of said portions.

2,659,923
WINDSHIELD WIPER BLADE
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application September 20, 1950, Serial No. 185,732
13 Claims. (Cl. 15—245)



11. A windshield wiper blade adapted for use with flat windshields comprising a wiping body, a plurality of spaced channel members attached to the top edge of said wiping body in end to end relation and adapted through relative movement to impart flexibility to said wiper blade, a channel-shaped guide member loosely overlying and telescopically embracing adjacent ends of said channel members and extending therebetween to limit said relative movement, and means for attaching said wiper blade to an actuating means.

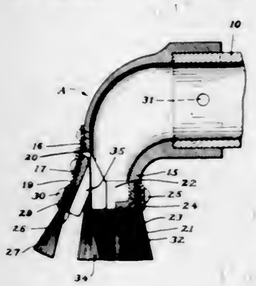
2,659,924
VACUUM CLEANER NOZZLE WITH REMOVABLE BRUSH ATTACHMENT
Axel Albert Forsberg, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application December 11, 1946, Serial No. 715,567
Claims priority, application Sweden December 15, 1945
1 Claim. (Cl. 15—395)



The combination with a suction nozzle having a flattened hollow body formed with spaced apart side walls and substantially smaller end walls terminating in a relatively narrow elongated opening, such end walls having recesses, of an attachment comprising a resilient stirrup member having spaced apart limbs and a part transverse to the limbs and connected thereto,

the recesses in the end walls receiving the ends of the limbs and a portion of an intermediate region of the resilient stirrup member entering the elongated narrow opening of the nozzle when the stirrup member is detachably mounted on the nozzle body, such intermediate portion being formed so that the nozzle walls serve as a guide therefor, said resilient stirrup member having a relatively small cross-sectional area relative to its length and the limbs thereof being under tension and spring pressed toward one another to cause the ends of the limbs to be firmly held in the recesses when the stirrup member is mounted on the nozzle body and the limbs overlie the exterior surfaces of the narrow end walls in a direction lengthwise of the nozzle body, at least the transverse connecting part and portions of the limbs projecting beyond the narrow elongated opening being disposed in a space defined by imaginary spaced apart planes flush with the exterior surfaces of the longer flat sides of the nozzle body, and a brush element at the vicinity of the narrow elongated opening which is secured to the spaced apart limbs of the stirrup member and includes bristles that normally extend a substantial distance beyond the imaginary spaced apart planes flush with the exterior surfaces of the longer flat sides of the nozzle body from a region therebetween.

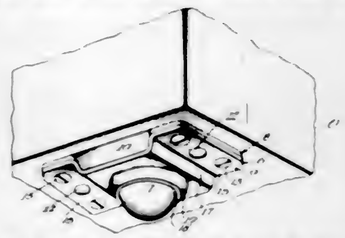
2,659,925
VACUUM FLOOR TOOL
Delos R. Wood, St. Paul, Minn.
Application June 18, 1948, Serial No. 33,735
2 Claims. (Cl. 15—418)



2. A vacuum cleaner head comprising an elongated body provided with spaced front and rear walls and connecting end walls defining an elongated opening, said front and rear walls being substantially vertical and parallel, an elongated notch in one of said walls; a closure member hingedly secured along its upper edge to said one wall to normally form a continuation thereof and close said notch, the upper edge of said closure member abutting against the lower edge of said one wall along the top of said notch and being limited in its inward pivotal movement to substantial alignment with said one wall, said closure being pivotal outwardly to increase the cross-sectional area of said elongated opening.

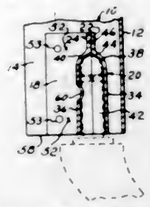
2,659,926
BALL TYPE CASTER
Joseph Wein, Chicago, Ill.
Application March 20, 1952, Serial No. 277,585
4 Claims. (Cl. 16—24)

1. As a new article of manufacture, a ball type caster adapted to be applied to the bottom surface of an object and when in place to support the object so that it is capable of being moved readily from place to place and comprising a substantially rectangular and flat horizontally extending top plate adapted to fit against said bottom surface of the object and provided on the central portions of the side margins thereof with integral downwardly extending right angle flanges having the ends thereof terminating small distances inwards of the end edges of the top plate, a complemental substantially rectangular generally horizontal bottom plate disposed beneath the top plate and shaped so that it consists of a pair of horizontal end parts, a horizontal central part at a lower level than the end parts and a pair of substantially vertical parts with the lower margins thereof connected to the end margins of the central part and their upper margins connected to the inner end margins of the end parts, said bottom plate being arranged so that the end parts thereof abut against the end parts of the top plate, the side margins of said central part thereof abut against



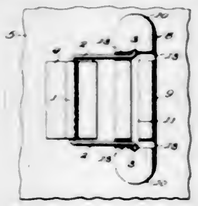
the bottom edges of the flanges and the end margins of the substantially vertical parts thereof abut against the ends of said flanges, and having said central part thereof forming with said vertically extending parts, the flanges and the superjacent central part of the top plate a housing, the central portion of said central part of said bottom plate having a circular hole therethrough, a spherical ball having the diameter thereof greater than the distance between the central part of the bottom plate and the superjacent central part of the top plate, disposed for the most part in said housing, and having the top portion thereof movably mounted adjacent said superjacent central part of the top plate and the portion thereof that is between its central and bottom portions disposed in said circular hole and fitting movably against the hole defining portion of said central part of the bottom plate, means for securing said plates in connected relation, and means whereby the plates may be attached to said object.

2,659,927
LEG AND CASTER MOUNT
Harold N. Simpson, Detroit, Mich., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application September 8, 1951, Serial No. 245,731
2 Claims. (Cl. 16—29)



1. A channel leg and caster mount comprising a channel sectioned leg having spaced substantially parallel flanks, a pair of nesting channel members each having a web portion and flanges, one being nested within the other, with the outer surfaces of the flanges and web of the inner member in contact with the inner surfaces of the flanges and web of the outer member, said outer member having the outer surfaces of its flanges in surface contact with the inner walls of the flanks of said leg channel, said web portions being disposed in substantially a vertical plane interconnecting the flanges thereof, said web portions having opposed semi-circular socket-forming portions providing together a substantially cylindrical socket adapted to receive the shank of a caster, said web members being welded together on either side of and along said semi-circular portions, and said flanges of said nesting channel members being welded together and to the flanks of said channel section legs.

2,659,928
COMBINED WIRE BAIL AND HANDGRIP FOR CONTAINERS
Hans A. Eggerss, New York, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application June 26, 1950, Serial No. 170,394
2 Claims. (Cl. 16—126)



1. The combination of a wire bail having a straight central portion and arms extending from the ends thereof at right angles thereto, the outer end portions of said bail arms being bent away from each other and disposed in axial alignment, and a hand grip shaped so as to extend outwardly transversely and longitudinally of the bail and beyond the bail arms, said grip being curved transversely and provided with a slot extending longitudinally thereof, said grip being mounted on the bail ends with the arms extending through said slot and the outer end portions of the bail in engagement with the grip adjacent the slot, the peripheral edge of the grip being extended inwardly to strengthen the grip and confine the bail ends to a pivotal movement relative to the grip.

2,659,929
SPRING ASSEMBLY
Jacob Hess, Forest Hills, N. Y., assignor to General Bronze Corporation, Garden City, N. Y.
Application June 3, 1948, Serial No. 30,810
3 Claims. (Cl. 16—197)

1. A spring assembly adapted to be used to balance the weight of a window sash vertically movable in a window frame comprising in combination, a pair of spaced brackets adapted to be connected to said frame and sash respectively, a spiral actuator rotatably supported on one of said brackets and a cooperating key-way through which said actuator extends, said key-way being formed in one end of a tube, the other end of which is secured to the other of said brackets, a coil spring surrounding said actuator and tube, one end of said spring being connected to said actuator near its point of support and the other end of said spring being effectively connected to said other bracket, said actuator comprising two oppositely wound spiral sections extending in opposite directions from a point near the center thereof, the spiral section adjacent to the point



of support of said actuator being wound in opposite sense with respect to the spiral of said coil spring, and the spiral section remote from the point of support of said actuator being wound in the same sense as the spiral of said spring, and manually adjustable means operatively associated with said other bracket for varying the torsion of said spring.

2,659,930
SHRIMP PEELING MACHINE
Hubert Jagger, Maywood, Ill.
Application August 22, 1951, Serial No. 243,010
9 Claims. (Cl. 17—2)



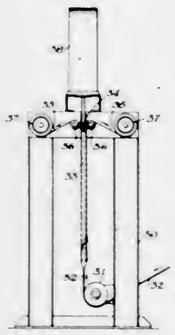
1. In a machine for peeling the shells from headless bodies of shrimps comprising a base, a pair of endless conveyors arranged in a horizontal plane on said base and having cooperating spaced apart runs providing an intermediate passage into which shrimp bodies can be fed for engagement on opposed sides by said runs for advancement of the bodies to shell slitting means, a pair of driven pulleys carried by said base around each of which one of said conveyors passes in driven relation, means operatively associated with said conveyors for rotating the pulleys in directions for driving said runs in the same direction, an idler pulley for the opposite end of each conveyor, a pair of swingable brackets each supporting one of said idler pulleys, spring means urging the brackets in directions whereby said idler pulleys and the ends of the conveyors passing around the same tend to swing each toward the other, and means interconnecting said brackets for constraining said brackets and idler pulleys to swing in unison when moved each toward the other by said spring means or when forced each away from the other against the action of said spring means by a shrimp body between said conveyor runs.

2,659,931

APPARATUS FOR STRETCHING FILM

Edward V. Dettmer, Bay City, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application March 3, 1952, Serial No. 274,631
5 Claims. (Cl. 18—1)



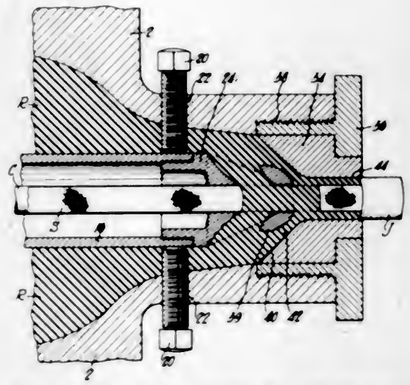
1. Apparatus for stretching previously unoriented tubular film both radially and longitudinally comprising: a stretching frame, the outer edges of which diverge symmetrically from the end at which film is fed to said frame, of a length and disposed with said outer edges at an angle to provide the desired radial stretch to tubular film advanced thereover; said stretching frame comprising 2 to 3 flat housings, each having a spaced pair of matching cover plates; a flat conveyor assembly in each said housing, mounted for movement parallel to the outer edges of the housing and for movement out of the housing into contact with film stretched over the housings, said conveyor assembly comprising a pantographic linked parallel movement mechanism mounted for elongation and contraction in said assembly; a lever means for moving the conveyor assembly to project the outer ends of the link members of the linked parallel movement mechanism out of the housing and for retracting the assembly wholly within the housing; a second lever means for moving the conveyor assembly successively in opposite directions parallel to the outer edge of the housing; a third lever means for elongating the linked parallel movement mechanism while the latter is projecting beyond the edge of the housing and for contracting said mechanism when it is retracted within the housing; a drive mechanism for each of said housings connected with said levers for effecting in repetitive sequence: (1) projection of the parallel movement mechanism beyond the edge of its housing while the links thereof are contracted and when the said assembly is closest to the film-feed end of the housing; (2) movement of the conveyor assembly parallel to the edge of the housing in the direction of movement of the film and simultaneous elongation of the pantographic mechanism; and (3) simultaneous contraction of the parallel movement mechanism and retraction and return of the conveyor assemblies to their original positions; means for synchronizing the several drive mechanisms so that each performs the same functions at the same time; and, a source of power for activating said drive mechanisms.

2,659,932

EXTRUDING APPARATUS

Owen A. McNamee, Worcester, Mass., assignor to United States Steel Corporation, a corporation of New Jersey

Application April 24, 1951, Serial No. 222,664
4 Claims. (Cl. 18—13)



1. Apparatus for extruding an insulating material around a pair of conductors having a substantially rectangular ground strand therebetween to form a cable, which comprises a male die, said male die having two spaced apart substantially circular axial openings therethrough one for each of said conductors and a substantially rectangular axial central opening between the circular openings for receiving the ground strand, said male die having a side opening therein extending outwardly and rearwardly from each side edge of said central opening for receiving insulating material, each of said side openings being disposed at an acute angle to the axial openings in the male die, a female die surrounding the exit end of said male die and spaced therefrom to provide an orifice for the insulating material, said female die having an axial opening therein for receiving the conductors, ground strand and insulating material, said female die extending beyond the exit end of said male die, the exit end of the opening in the female die having a size and shape substantially the same as that of the finished cable, and means for feeding insulating material around said male die from the entry end thereof through said side openings and orifice.

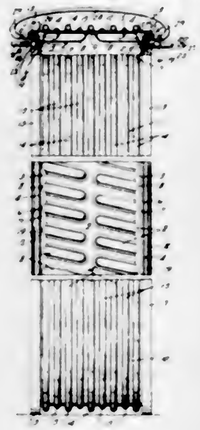
2,659,933

RETREAD MOLD CONSTRUCTION

Earle W. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota

Application December 24, 1952, Serial No. 327,809
2 Claims. (Cl. 18—18)

1. A tire retreading device comprising an integral cylinder-like matrix formed from sheet metal and having radially inwardly projecting endless tread material confining flanges adjacent its opposite side edges, a tubular heating element coiled about the outer peripheral surface of said matrix and terminating in inlet and outlet heads adjacent opposite side edges, a circular tubular heating element wound about and adhered to the axially outer side of each of said confining flanges, each of said last mentioned heating elements terminating in laterally outwardly projecting fittings, and a flexible conduit spanning the radially outer surface of said matrix and provided at its opposite ends with couplers each



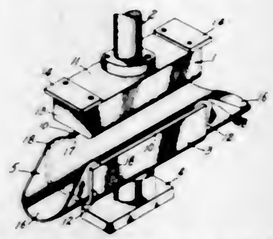
adapted to be detachably secured to one of the fittings associated with each of said last-mentioned heating elements.

2,659,934

METHOD AND APPARATUS FOR MAKING ARTICLES FROM BIAXIALLY ORIENTED THERMOPLASTIC SHEET MATERIAL

James Q. Burgess, West Hartford, Conn., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware

Original application April 7, 1947, Serial No. 740,398. Divided and this application March 30, 1951, Serial No. 220,382
4 Claims. (Cl. 18—19)



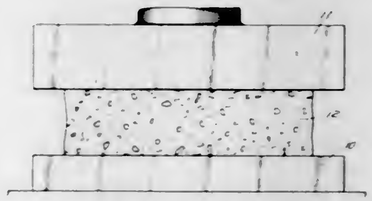
4. Apparatus for manufacturing an open box from a preform of biaxially oriented thermoplastic sheet, including a movable forming block of less length than said preform and having a bottom surface and parallel side and end surfaces at right angles to one another, a channel member of greater length than said block and having a bottom and side walls arranged to conform to and secure the preform intermediate its sides and end in close surface engagement with the corresponding walls of said block, means for moving the block and channel into securing relationship with the preform secured therebetween, means for effecting biaxial disorientation and rendering plastic the unsecured end portions of the preform and substantially monoaxially disorientation of the unsecured side portions, press members for forcing the unsecured and disoriented end portions into surface contact with the ends of said block, and flanges on said block cooperating with the ends of the channel member for determining the peripheral shape of the pressed plastic ends.

2,659,935

METHOD OF MAKING COMPRESSED SPONGES

Henry George Hammon, Stevensville, Mich., assignor, by mesne assignments, to Christopher L. Wilson, Columbus, Ohio

Application March 18, 1950, Serial No. 150,418
2 Claims. (Cl. 18—55)



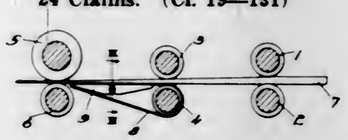
1. The method of making a compressed sponge which comprises providing a polyvinyl formal sponge having interconnected pores throughout, prepared from polyvinyl alcohol and having from 35 to 80% of the hydroxyl groups of the alcohol reacted, said sponge containing not more than about 3% water, and compressing said sponge under a pressure sufficient to reduce materially the bulk of said sponge, said sponge being maintained during the compressing step at a temperature less than that at which the sponge assumes a permanent set.

2,659,936

FIBER DRAFTING

Olle E. Sandelin, Cleveland, Ohio

Application October 23, 1951, Serial No. 252,692
24 Claims. (Cl. 19—131)



12. The method of controlling the fibers in a strand during drafting which comprises the steps of feeding the strand longitudinally of itself within an area referred to as a drafting ratch, passing an air-pervious surface along the strand in contact therewith, with the same direction of motion, within the drafting ratch, and sucking air through said surface from the side opposite the strand for compacting said strand and holding the shorter fibers therein.

2,659,937

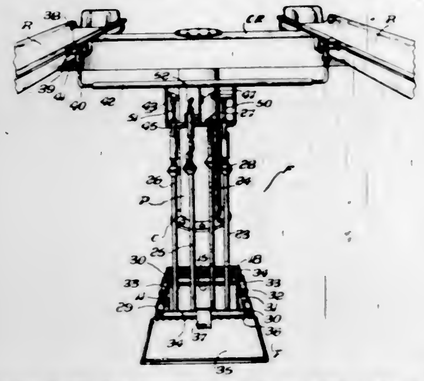
RETRACTABLE HOSE-SUPPORTING MEANS FOR LUBRICATION LIFTS

Karl E. Hammer, University City, Mo., assignor to Gray Company, Inc., Minneapolis, Minn., a corporation of Minnesota

Application February 4, 1948, Serial No. 6,326
6 Claims. (Cl. 20—0.8)

1. Vehicle-servicing apparatus comprising a power-lift adapted to receive a vehicle and to raise it substantially off the floor, a casing sunk into the floor beneath said power-lift, said casing extending slightly above floor level and having a plurality of horizontal rollers disposed adjacent its uppermost edge and having a pair of horizontally aligned slots in its uppermost edge, a hinged top door mounted upon said casing, an uppermost compartment formed within said casing and having an apertured bottom-wall, a plurality

of flexible hoses operatively connected within said casing in extensible side-by-side relationship with the free ends thereof extending into said uppermost compartment through the apertured bottom-wall thereof; stop-means carried by the free ends of said hoses for limiting downward movement thereof relative to said apertured bottom wall, a dispensing nozzle mounted on the free end of each hose and normally disposed in generally upright position within said uppermost compartment, a generally horizontal cross-bar carried by said power-lift and extending generally transversely along the underside thereof, said cross-bar being adapted to enter the slots in said



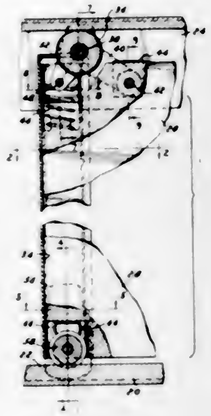
casing when said power-lift is in lowermost position, a generally U-shaped hanger depending from said cross-bar and constructed and arranged to extend within said uppermost compartment when said power-lift is in lowermost position, means removably hooking each nozzle to said hanger to lift each nozzle with the hanger when said power-lift is raised so as to maintain said nozzles in proximity to the vehicle being serviced, and cam-means on said top door and said hanger for flipping said top door to open position when said hanger is moved upward from within said compartment.

2,659,938
BUILDING PANEL AND CONSTRUCTION
William H. Crowther, Seattle, Wash.
Application July 26, 1946, Serial No. 686,556
1 Claim. (Cl. 20—5)



A building panel comprising a backing of low grade lumber having its grain extending lengthwise of the panel and tapered transversely of the panel, said backing being of a thickness to give lengthwise rigidity to the panel, and a relatively thin face of high grade veneer of uniform thickness bonded to said backing with its grain extending transversely of the panel, and striated transversely of the panel to leave an unstriated marginal portion along its thinner edge and the thicker edge of the panel having a rabbet therealong of a shape and size complemental to the marginal unstriated thinner edge portion of the panel for receiving snugly therein the thinner edge of a like panel to dispose corresponding surfaces of said panels in coplanar relationship, and said thicker panel edge further having a step therein alongside said rabbet and a chamfer extending from such step across the edge of said veneer face.

2,659,939
SLIDING DOOR ASSEMBLY
James W. Greig, Detroit, Mich., assignor to Woodall Industries, Inc., Detroit, Mich., a corporation of Michigan
Application May 18, 1950, Serial No. 162,701
21 Claims. (Cl. 20—19)

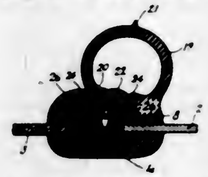


12. A marginal tube for a panel comprising a split resilient wall tube having a portion of its wall substantially diametrically opposed to the split bent inwardly providing linearly extending substantially parallel spaced apart beads projecting inwardly of the tube and adapted to engage opposite sides of the marginal portion of a panel received within the tube through the split.

2,659,940
REFRIGERATOR GASKET
Howard G. Beck, Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 17, 1949, Serial No. 133,652
3 Claims. (Cl. 20—35)

1. A mounting for joining panel edges comprising a linear body of rubberlike material with opposing grooves therein to receive panel edges, a longitudinal opening intermediate the grooves, and two cooperating toggle joint elements for insertion into said opening so that after the panel edges have been fitted into the opposing grooves said toggle joint elements are inserted into said opening to thereby expand the body of the

mounting into tight gripping engagement with the panel edges, and a hollow ovate seal element formed integrally with the mounting body ad-



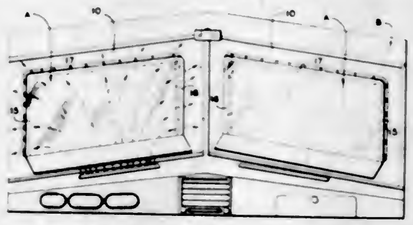
jacent one edge of said longitudinal opening spanning one of said toggle joint elements and formed integrally with the other toggle joint element along the outer portion thereof.

2,659,941
REFRIGERATOR GASKET
Howard G. Beck, Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 17, 1949, Serial No. 133,653
7 Claims. (Cl. 20—35)



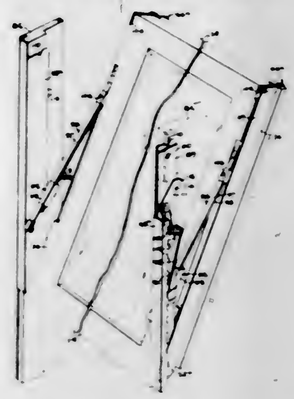
1. The combination of (1) a mounting portion for joining panel edges which mounting portion comprises a linear body of rubberlike material of uniform cross sections with opposing grooves therein to receive panel edges, a longitudinal opening intermediate the grooves and generally to one side of a longitudinal plane passing through the middle of the base portion of said grooves and a plug element hingedly connected to said body along one edge adjacent said longitudinal opening and proportioned for insertion into said opening to thereby expand the body of the mounting into tight gripping engagement with the panel edges and (2) a hollow, bulbous seal integral with said plug element and extending outwardly from the mounting body on the same side of the plane through the midpoints of the opposing grooves as that of the plug element.

2,659,942
WINDSHIELD WARMER
Lauren E. Iverson, St. Paul, Minn.
Application March 25, 1948, Serial No. 16,992
2 Claims. (Cl. 20—40.5)



2. In combination with a permanently installed vehicle windshield defrosting system having an elongated slot for directing warmed air against the windshield, the combination including an auxiliary attachment for confining the warm air to close adjacency to the windshield, said attachment comprising a panel of transparent material equipped with an integral flange inclining downwardly and outwardly from the lower edge of the panel, said flange extending substantially the full width of said panel, and means for detachably holding said panel in a slightly spaced relation from said windshield with said flange overhanging said slot.

2,659,943
WINDOW
Olien Polson and Theodore J. Nelson, Chicago, Ill.
Application November 12, 1947, Serial No. 785,262
4 Claims. (Cl. 20—49)

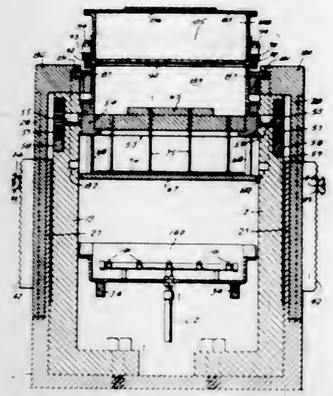


2. In a window having a frame including a pair or spaced apart parallel side jambs, the combination of guide strips mounted on said side jambs and defining thereon longitudinal guideways, sash carriers mounted in the guideways for relative sliding movement with respect to said guide strips and parallel to the general plane of said frame, a sash pivotally mounted on said carriers for swinging movement with respect to the same and to the plane of said frame, said sash also being susceptible of bodily movement with said carriers parallel to the plane of said frame, disengageable latch means for preventing relative swinging movement between said sash and said carriers, yieldable counterbalancing devices interposed between said frame and said carriers for adjustably maintaining said carriers and said sash at any selected position within the limits of their movement parallel to the plane of said frame, and at least one extensible and retractable link disposed between said sash and said carriers for maintaining said sash in any desired angular position within the limits of swinging movement thereof.

2,659,944
MOLD-FORMING MACHINE
Emery I. Valyi, New York, N. Y.
Application June 10, 1952, Serial No. 292,677
3 Claims. (Cl. 22—9)

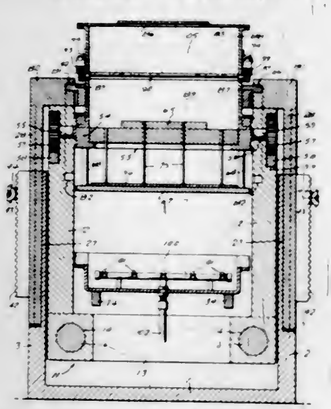
1. In an apparatus of the character described, a pattern holder adapted to receive a pattern, a hopper for a molding mixture having a discharge opening at its lower end and mounted higher than said holder, closure means for said discharge opening, means operative to cause relative movement between said holder and said hop-

per to bring said hopper and said holder into engagement with the lower end of the hopper surrounding said pattern, means opening said closure means to supply molding mixture from said hopper to said pattern, means operative to rotate said holder and said hopper in unison to inverted position while maintaining said hopper in contact with said holder for returning excess



molding mixture to said hopper, means closing said closure means, means rotating said holder and hopper to upright position, means operable to separate said hopper and said pattern holder to leave a space over said holder, an oven displaced laterally from said pattern holder and means shifting said oven into position in said space over said holder for heating the molding mixture on said pattern.

2,659,945
MOLD FORMING MACHINE
Emery I. Valyi, Bronx, N. Y., assignor to Shell-mold & Machine Co., Inc., New York, N. Y., a corporation of New York
Application May 15, 1951, Serial No. 226,460
16 Claims. (Cl. 22—20)



1. In an apparatus of the character described, a pattern holder adapted to receive a pattern, a hopper for a molding mixture having a discharge opening at its lower end and mounted higher than said holder, closure means for said discharge opening, means operative to cause relative movement between said holder and said hopper to bring said hopper and said holder into engagement with the lower end of the hopper surrounding said pattern, means opening said closure means to supply molding mixture from said hopper to said pattern, means operative to rotate said holder and said hopper in unison to inverted position while maintaining said hopper in contact with said holder for returning excess molding mixture to said hopper, means closing said closure means, means rotating said holder and hopper to upright position, an oven mounted at one side of said pattern holder and means operative to cause relative movement between said holder and said oven to bring said holder into said oven for heating the molding mixture on said pattern.

2,659,946
MOLDING MACHINE
Bernard Faure, Neuilly-sur-Seine, France
Application September 10, 1951, Serial No. 245,926
Claims priority, application France September 9, 1950
6 Claims. (Cl. 22—48)



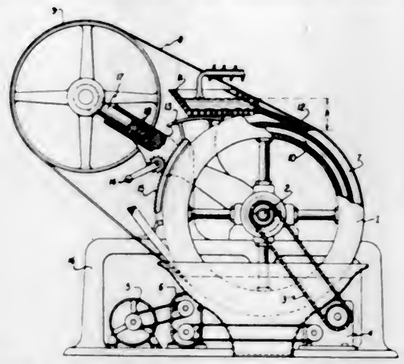
1. A push element for removing the mold from a molding machine comprising, in combination, a first tubular member; a second tubular member slidably arranged within said first tubular member; resilient means arranged within said first tubular member and urging said first and second tubular members into an expanded position with respect to each other; an elastic sheath arranged between said first and second tubular members; and means for inflating said elastic sheath, whereby said elastic sheath in uninflated condition permits a sliding of said tubular members with respect to each other and in inflated condition forms a rigid connection between tubular members.

2,659,947

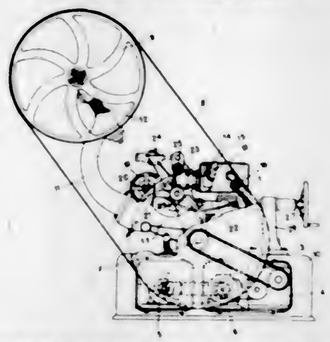
WITHDRAWN

2,659,948
MACHINE FOR THE CONTINUOUS CASTING OF METAL RODS
Ilario Properzi, Milan, Italy
Application December 6, 1950, Serial No. 199,387
Claims priority, application Italy January 21, 1950
3 Claims. (Cl. 22—57.4)

1. In apparatus for the continuous casting of molten metal which has a wheel having an annular channel rotatably supported on a base structure and which also has a movable flexible ribbon enclosing an arcuate portion of the channel, the combination with said wheel and ribbon of supporting means rotatably mounted on the base structure coaxially with the axis of rotation of the wheel and extending radially beyond the periphery of the wheel, a pulley rotatably mounted on said supporting means and supporting the movable ribbon taut over the aforesaid arcuate portion of the channel in a looped configuration, crucible means mounted on said supporting means in a position so that at least a portion of said crucible extends within the loop of the ribbon, said crucible means having a spout directed into the aforesaid channel, and adjustable means for rotating said supporting means about the axis of rotation of the wheel to move said pulley and crucible means relative to the periphery of the wheel through an arc and control the rate of flow from said crucible means.



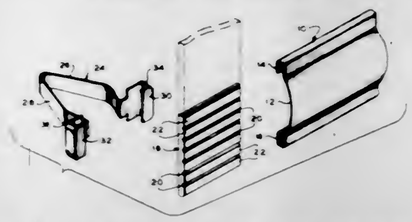
2,659,949
MACHINE FOR THE CONTINUOUS CASTING OF METAL RODS
Ilario Properzi, Milan, Italy
Application November 8, 1951, Serial No. 255,474
3 Claims. (Cl. 22—57.4)



1. In apparatus for the continuous casting of molten metal having a rotatable casting wheel with a peripheral casting groove therein, a pulley rotatable about an axis spaced from and parallel to the axis of rotation of said wheel, and an endless belt looped around said wheel and said pulley and defining an enclosed area with said wheel and pulley therein, with said endless belt contacting the wheel as a closure for said groove to provide a casting mold, the combination with said wheel, pulley and belt including an upstanding arm rotatable about the axis of rotation of the aforesaid casting wheel for supporting the aforesaid pulley, supporting means rotatable about the axis of rotation of the aforesaid casting wheel, a crucible supported on said supporting means and having a nozzle extending therefrom between the aforesaid belt and wheel into the aforesaid casting groove, and means for rotating said supporting means with respect to said upstanding arm about the axis of rotation of the aforesaid casting wheel to move said crucible and said nozzle thereon to vary the position of the nozzle circumferentially along the periphery of said wheel

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2,659,950
TRIM MOLDING FASTENING MEANS AND METHOD
Charles D. West, Orlando, Fla.
Application August 14, 1950, Serial No. 179,126
5 Claims. (Cl. 24—73)



2. A fastener for attaching trim material of the character having spaced opposed flange portions and an intermediate face portion to a main body provided with one or more apertures, said fastener comprising an adapter formed from ductile sheet material and including a substantially flat member having a plurality of spaced serrations transversely of its length whereby the length of said flat member may be reduced if necessary to be received between the flange portions of said trim material, and a substantially U-shaped spring clip receivable in one of the apertures in said main body, said clip having a pair of outwardly bowed integrally connected and angularly disposed arms, the free extremities of said arms being provided with opposed U-shaped jaws for embracing the longitudinal edges of said arms being provided with opposed U-plane perpendicular to the plane of said angularly disposed arms and each jaw having inwardly directed biting edges for biting into the ductile material of said adapter to prevent displacement of said spring clip on said adapter when said angularly disposed arms are engaged within an aperture in said main body.

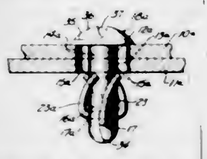
2,659,951
SHEET METAL SNAP FASTENER
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Original application March 17, 1948, Serial No. 15,477, now Patent No. 2,578,381, dated December 11, 1951. Divided and this application October 30, 1951, Serial No. 253,893
2 Claims. (Cl. 24—73)



1. A fastener comprising a piece of sheet metal providing a base and spaced tabs at opposite ends

of said base, and a spring arm extending from a side portion of said fastener base, said spaced tabs projecting outwardly from one surface of said fastener base in inwardly inclined inverted substantially V-shaped relation for engaging correspondingly inwardly inclined spaced abutments in inverted substantially V-shaped relation on an object, and said spring arm projecting outwardly from the opposite surface of said fastener base for securing said object to a supporting structure.

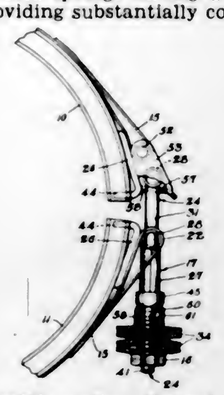
2,659,952
FASTENING DEVICE
Ernest Schlueter, Hollis, N. Y., assignor, by mesne assignments, to Simmons' Fastener Corporation, Albany, N. Y., a corporation of New York
Application January 5, 1945, Serial No. 571,412
3 Claims. (Cl. 24—221)



1. A stud element adapted to be secured in a hole in a work structure having adjacent to the hole opposite engagement portions having exposed engagement faces, said element comprising a stud rotatable in said hole and having a head engageable with the outer face of said structure; the inner end portion of the stud remote from the head being provided with a transverse aperture; said end portion having at the free end a pair of triangular portions having their bases at opposite sides of the adjacent aperture, the apexes of the triangular portions being at opposite ends of the aperture, the apex part of each portion being a curved portion forming a hook disposed over the aperture and contacting the other portion at the end of the aperture remote from the apex part of said other portion said portions enclosing completely the sides of the aperture; and a substantially U-shaped locking wire member having a straight transverse yoke in one of said apertures and two arms disposed spirally at opposite sides of the stud and engaging said engagement faces; said hooks having a special definite coaction of preventing the stress on the arms by the work structure from causing the yoke to wedge the triangular portions apart.

2,659,953
COUPLING CLAMP WITH CONSTANT SPRING LOADING
Theodore A. Woolsey, Inglewood, Calif.
Application October 12, 1951, Serial No. 251,080
6 Claims. (Cl. 24—279)

1. In a band coupling, a coupling band having at least two circumferentially spaced and opposed end portions; a take-up bolt; quickly releasable coupler means for attaching one end of said bolt to one of said end portions; an abutment element having a pivotal connection with the other band end portion and having an abutment portion provided with an opening; said bolt extending through said opening and having a threaded end portion projecting therefrom; a pair of telescoped tubular elements through which said threaded portion extends, one of said tubular elements being in abutting engagement with said abutment element; a stack of Belleville washer springs encircling the other of said tubular elements, said springs having a load deflection curve providing substantially constant loading in the useful portion thereof; and a nut threaded on said threaded bolt portion; said springs being confined under compression between said one tubular element and said nut.

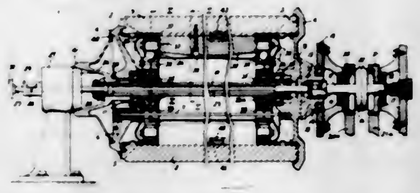


2,659,954
COUPLING CLAMP WITH CONSTANT SPRING LOADING
Theodore A. Woolsey, Inglewood, Calif.
Application October 16, 1951, Serial No. 251,473
6 Claims. (Cl. 24—279)



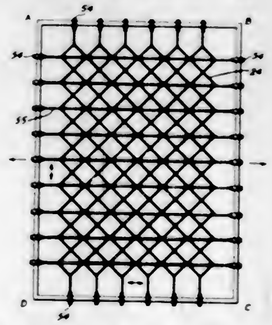
1. A clamp coupling, comprising: a generally annular band having at least two end portions facing each other in circumferentially spaced relationship; a trunnion movably carried by each end portion; one of said trunnions having a bore therein at least partially threaded; the second trunnion having a smooth bore therein axially aligned with the bore of said first trunnion; a headed bolt passing through said bores, the free end of the bolt shank being threaded for engagement with said threaded bore for radially drawing said band inwardly about an article subject to thermal expansion; and a stack of Belleville washer springs having the characteristic of exerting a substantially constant load throughout a relatively wide range of deflection thereof circumscribing said bolt and disposed between the head thereof and said second trunnion, said springs being deflected as the bolt is threaded into said first trunnion to clamp said band about said article, said springs deflecting and permitting radially outward movement of said band to maintain a substantially constant tension stress in said band as the clamped article expands.

2,659,955
THREAD ADVANCING REEL
Richard W. Stanley, Lakewood, Ohio, assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Original application October 26, 1944, Serial No. 560,445, now Patent No. 2,447,143, dated August 17, 1948. Divided and this application February 6, 1948, Serial No. 6,710
2 Claims. (Cl. 28—71.6)



1. Reel mechanism comprising a hollow shaft, a cage-like structure comprising two sets of interdigitating bars parallel to the shaft, means for imparting relative motion between the sets of bars during rotation thereof to provide thread advancing motion, means for rotating the structure as a unit about the axis of the shaft at different speeds comprising two driving members, means for rotating the members at different speeds, and clutch means axially spaced from one end of the cage-like structure for alternately engaging the two driving members rotating at different speeds, means comprising a rigid rotatable and axially movable member extending through the shaft to the other end of the cage-like structure for selectively engaging and disengaging the clutch means with respect to one of the two driving members, and detent means comprising a fixed slotted element exposed at said other end of the reel and a radially extending pin secured to the movable member and extending into the slot of the slotted element for retaining the clutch means in the selected position.

2,659,956
FABRIC, METHOD OF MAKING SAME, AND ITS USES
Julius E. Lilienfeld, St. Thomas, V. I.
Application December 15, 1948, Serial No. 65,484
6 Claims. (Cl. 28—78)



1. An integrated fabric, in its undisturbed condition lying flat in a plane, and consisting of a retiform non-slipping base pattern of substantially inextensible filaments, and an elastic pattern of mutually non-intersecting elastic filaments crossing the pattern of said inextensible filaments.

2,659,957
WEIGHT SUPPORTING FABRIC
Julius E. Lilienfeld, St. Thomas, V. I.
Application September 12, 1949, Serial No. 115,150
7 Claims. (Cl. 28—78)



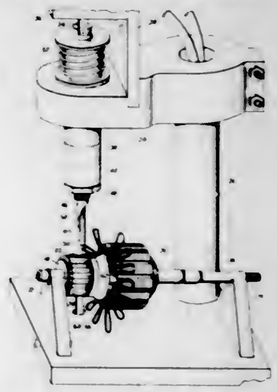
1. An integrated fabric lying flat in a plane and consisting of a retiform non-slipping base pattern made up of substantially inextensible filaments and formed of adjacent polygons and in which no two sides of adjacent polygons as seen from any one apex preserve the same direction; and a pattern of mutually non-intersecting elastically extensible filaments crossing the base pattern of said inextensible filaments.

2,659,958
FOURDRINIER WIRE HAVING REINFORCED COATED MARGINAL PORTIONS
Henry Johnson, Montreal, Quebec, Canada
Application August 30, 1952, Serial No. 307,241
Claims priority, application Canada May 9, 1952
2 Claims. (Cl. 28—80)



1. A Fourdrinier wire having its side marginal edges reinforced by covering strips of plastic material presenting scalloped inner edges.

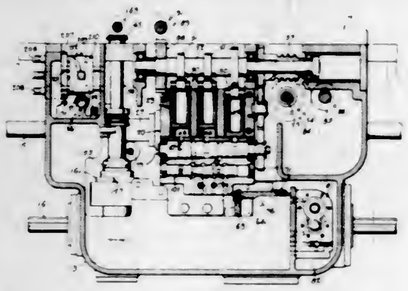
2,659,959
APPARATUS FOR STAKING LEADS TO COMMUTATORS
John J. Currivan, Stamford, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application February 5, 1949, Serial No. 74,835
2 Claims. (Cl. 29—34)



1. A tool for staking leads to commutator bars comprising a body member adapted to be mounted

for reciprocation, an elongated punch having a punch surface at one end, means mounting the punch for reciprocating movement in said body member, means urging said punch outwardly of said body member to a limited extent, a cutter immovably mounted on and relative to said body member and having a cutting edge adjacent one side only of said punch with its edge effective in the same direction as said punch, and means on said body member for engaging the other end of said punch when the punch is retracted by engagement with a commutator to positively strike said other end and deliver a blow to said punch, the length of said punch relative to the distance between said cutting edge and the last mentioned means being such that said punch surface cannot be retracted inwardly of said cutting edge.

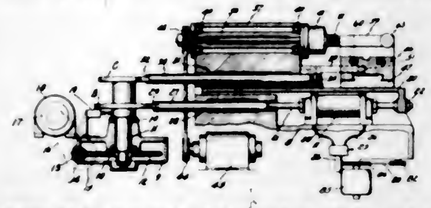
2,659,960
SEMIAUTOMATIC TURRET LATHE
Charles H. Johnson, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Application May 27, 1948, Serial No. 29,587
22 Claims. (Cl. 29—42)



8. In a manually operable turret lathe having a bed with a headstock, a rotary spindle carried by the headstock, a feed shaft rotated in correlation to the rotation of the spindle, a traverse shaft, a turret and a turret carriage operable on ways on the bed, a hydraulic transmission unit on said carriage driven from said feed shaft and having infinitely variable adjustment in capacity within the range of feeds required, means to feed said carriage by said transmission, means to disconnect said last named means, means correlated with the operation of said disconnecting means to establish a traverse drive for said carriage from said traverse shaft, a single manual valve control for selectively effecting forward and back feed and forward and back traverse movement of said carriage by said transmission, said valve control having a neutral position for stopping said carriage movement, and hydraulic means operable automatically in correlation to said valve to clamp said carriage when said valve is in neutral position.

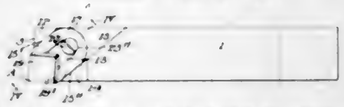
2,659,961
TURNING AND BORING MACHINE
Carl E. Dilts, Saginaw, Mich., assignor of one-half to Joseph H. Hoern, Saginaw, Mich.
Application May 22, 1946, Serial No. 671,477
5 Claims. (Cl. 29—54)

1. A machine of the character described comprising in combination, a main frame, a longitudinally movable table mounted thereon, a cam-actuated transversely disposed tool slide mounted on said table, tools on said slide, driven spindles on the frame and including chucks in which the work is mounted for being operated upon by corresponding tools on said slide, a cam for moving said tool slide, a bell crank on said frame with one leg in contact with the slide, and a push rod extending parallel with said spindles interposed



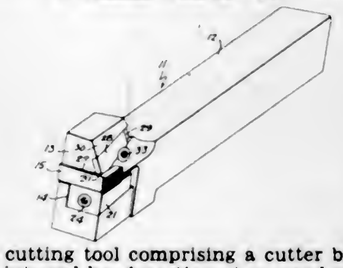
between said cam and the opposite leg of the bell crank for shifting said slide as the cam is driven, said spindles being arranged between the cam and tool slide to provide unobstructed access to the front and both sides of the machine tool by an operator attendant.

2,659,962
TOOLHOLDER
Paul Doersein, Fairlawn, N. J.
Application April 29, 1950, Serial No. 159,031
7 Claims. (Cl. 29—96)



1. A tool holder of the character described for holding a working insert of elongated form and uniform cross-section comprising, a head recessed to accommodate said insert, the inner walls of the recess being shaped to fit the sides of said insert and extending to the top of the head on the side of the insert opposite that from which major working stresses are directed, a movable yoke piece having its ends shaped to embrace the sides of the insert at two substantially opposite points adjacent its working end and means for moving said yoke piece in a direction to hold said insert against said inner walls, said yoke moving means being a screw movable into and out of the top of the tool holder head and provided with a tapered part adapted to bear against and move the yoke piece.

2,659,963
TOOLHOLDER
Ole C. Severson, Derby, Conn., assignor to The Viking Tool Company, Shelton, Conn., a corporation of Connecticut
Application December 30, 1950, Serial No. 203,687
2 Claims. (Cl. 29—96)



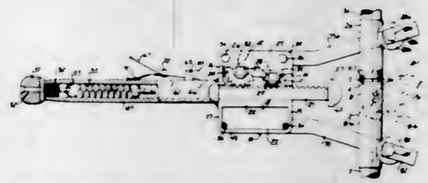
1. A cutting tool comprising a cutter bar having an integral head portion at one end provided with a transverse bit-receiving recess including a bit-engaging clamping surface forming the top face of the recess, said head portion including an outer face inclined upwardly and backwardly from said clamping surface, said head portion being provided with an upwardly and rearwardly inclined slot in said inclined outer face leading at its lower end to said clamping face, a chip breaker comprising a block detachably mounted in said slot having an inclined lower surface flush with the top clamping surface of the recess, a cutting bit mounted in the recess, a clamping block supported on the lower surface of the recess under the cutting bit, and means for shifting the clamping block to clamp the cutting bit against said clamping surface of the recess and the lower surface of the chip breaker.

2,659,964
METHOD OF MAKING QUARTZ-TO-METAL SEALS
Ernest Benjamin Power, Kenton, and Evan Herbert Nelson, Harrow Weald, England, assignors to General Electric Company, a corporation of New York
Application August 30, 1948, Serial No. 46,916
Claims priority, application Great Britain September 1, 1947
2 Claims. (Cl. 29—179.5)



2. The method of making a stem for a lamp envelope which comprises the steps of inserting one end of a metal rod wrapped with metal foil into a closely fitting vitreous tube having a thickened wall at one end, positioning around the rod and against the said tube end an annular metallic disc having a sealing edge, also positioning around the rod and against the said disc a split sleeve wrapped with metal foil, placing around the sleeve a second vitreous tube having a cup-shaped end fitting around the thickened end of the first tube with the base of the cup butting against the disc, creating a non-oxidizing atmosphere in said overlapping tubes and heating their overlapping portion to fuse them together, evacuating the space defined by the joined tubes, heating the vitreous material around the disc to soften and hermetically join said material thereto and then heating the part of the tube around the rod to soften and collapse it onto the foil, removing part of the tubing around the sleeve and removing the sleeve to give access to the joint between the rod and the disc, and then brazing said joint to hermetically unite said rod and said disc whereby the brazed joint between said rod and said disc is not subjected to the heat incident to the softening of the joined tubes.

2,659,965
TOOL FOR ASSEMBLING AND DISASSEMBLING ELECTRICAL CONNECTORS
Julian C. Bailey, Lexington, N. C.
Application July 20, 1951, Serial No. 237,820
1 Claim. (Cl. 29—244)



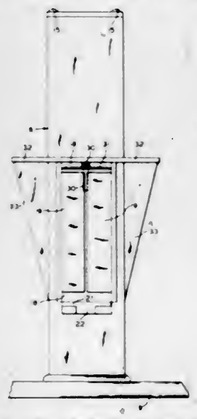
A tool for assembling and disassembling a pair of pivotally interconnected lugs having overlapping portions pivotally mounted with respect to each other and having notches in their proximate faces into which the corresponding ends of the overlapping portions are secured by a pressed fit when the lugs are in an assembled position in axial alinement with each other; said tool comprising a base, a plunger mounted for longitudinal sliding movement in the base and having a rack thereon, a pair of arms secured to the base and extending forwardly therefrom astride the front end of said plunger, a pair of transversely alined rollers rotatably mounted on said arms and being normally disposed forwardly of and to opposite sides of the front end of the plunger, the axes of said rollers being parallel, but at substantially right angles to the longitudinal axis of said plunger, each roller having a concave peripheral surface, at least one pinion rotatably mounted on said base and meshing with the rack on the plunger, means on said pinion for receiving a wrench for manually imparting rotation to the pinion for moving the plunger between the rollers whereby the pivotally interconnected lugs may be placed against the rollers with the pivot point thereof in alinement with the longitudinal axis of the plunger and, upon movement of the plunger into engagement with the lugs, the lugs may be pivoted about the pivotal connection thereof, said plunger and its rack extending rearwardly beyond said base, a tubular handle secured on said base and in which the portion of the plunger extending beyond the rear of the base is slidably mounted, a tension spring disposed within the tubular handle and connected to the rear end of the plunger, means in the tubular handle for anchoring the end of the tension spring remote from the end which is connected to the rear end of the plunger to thus normally bias the plunger in a rearward direction, an elongated manually movable latch pivotally mounted intermediate its ends on said handle and extending parallel to said handle and having a tooth portion on its front end, said handle having an opening therein through which said tooth portion of the latch normally extends to engage the rack on said plunger, a second spring means normally urging the rear portion of the latch outwardly to thereby urge the tooth portion into engagement with the rack on the plunger whereby said rack overrides the tooth portion on the latch as the plunger is moved forwardly, the position of said second spring means being such as to cause the tooth portion of the latch to remain in engagement with the rack upon forward pressure on the plunger being released and whereby a rearward pressure is then exerted on the plunger by the tension spring and, also, whereby, upon releasing the tooth portion of the manually movable latch from engagement with the rack, said tension spring will return the plunger to its rearward position.

2,659,966
METHOD OF FABRICATING WELDED GIRTH JOINTS
James Coryell Turnbull, Oakmont, Pa., assignor to Scaife Company, Oakmont, Pa., a corporation of Pennsylvania
Application April 9, 1949, Serial No. 86,570
7 Claims. (Cl. 29—358)



1. A method of fabricating a welded girth joint comprising forming two generally tubular metal elements of the same cross-sectional shape and dimensions, forming out of the metal of at least one of the elements at an end thereof a flange extending generally endwise of said element at an acute angle to the metal of said element adjacent the flange, assembling the elements end to end with said flange in engagement with the other element at a portion of said flange removed from the extremity thereof whereby to center the elements relatively to each other while permitting free escape of gases formed during welding and fusing together the thus assembled elements in longitudinal alignment with both elements so that the welded joint formed by said fusing and both elements are in longitudinal alignment.

2,659,967
PACKAGE OPENER
William J. Cahill, Minneapolis, Minn.
Application September 4, 1951, Serial No. 244,948
5 Claims. (Cl. 30—2)



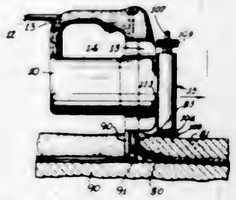
1. A cabinet, an electric motor mounted in the top portion of the cabinet with its armature shaft depending in the cabinet, a circular cutter on said shaft, a shelf extending into the cabinet below the cutter, an upright passageway in the cabinet leading to the shelf, and extending above the plane of the cutter and below the shelf, and means for raising or lowering the shelf relative to the cutter.

2,659,968
VIBRATORY RAZOR
Alvin Hayes Crisp, Moscow, Idaho
Application October 30, 1950, Serial No. 192,838
4 Claims. (Cl. 30—45)



4. In a safety razor and vibrator combination, a guard plate and a clamping plate adapted to receive a razor blade therebetween, a vibrator including a vibrating head adapted to engage the undersurface of a razor blade disposed between the plates, said vibrating head being disposed between said plates and having its ends terminating adjacent the ends of said plates, latching means detachably connecting said guard and clamping plates and being free of said vibrating head, said latching means comprising spaced, downwardly depending lugs on said clamping plate, said guard plate and said head being provided with aligned slots, receiving said lugs therethrough, the lower end of each lug having a cam slot opening into the edge thereof and means engaged in each cam slot holding said plates together.

2,659,969
PLASTER CAST CUTTING MACHINE
Martin Merkur, New York, N. Y., assignor of one-third to Arnold Neustadter, New York, N. Y.
Application April 15, 1950, Serial No. 156,117
4 Claims. (Cl. 30—144)



2. A portable power-driven cutting machine comprising, in combination, a motor housing, an elongated guide member having a V-grooved blade support rigidly extending from said housing, a pair of reciprocable cutting blades slidably mounted side by side in the groove of said support, the cutting edges of said blades being wider than said support, the back edges of said blades being tapered to fit into the groove of said support, a guard member rigidly attached to said housing and extending therefrom parallel to but spaced from said guide, said guard member underlying the ends of said blades opposite from said housing, motor-driven means in said housing for oppositely reciprocating said blades, and vertically yieldable work-holding means adjacent to but disengaged from the cutting edges of said cutting blades, said work-holding means normally extending toward the ends of said blades opposite from said housing.

2,659,970
ARTIFICIAL INTRAORAL VENEER AND PROCESS OF PRODUCING ANATOMICALLY COLORED AND CONTOURED RESTORATIONS UTILIZING SAME
Nelson Ingersoll, Jr., York, Pa.
Application January 19, 1951, Serial No. 206,884
17 Claims. (Cl. 32—2)



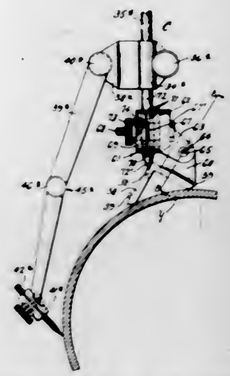
1. A denture veneer strip formed from substantially transparent synthetic resinous material bondable to an artificial intra-oral restoration, said strip having on one surface thereof a vari-colored replica simulating vari-colored natural gum tissues.

2,659,971
TOOTH FACING AND BACKING THEREFOR
Ado Vecchiotti, Ascoli Piceno, Italy
Application February 25, 1948, Serial No. 10,768
Claims priority, application Italy February 20, 1948
1 Claim. (Cl. 32—9)



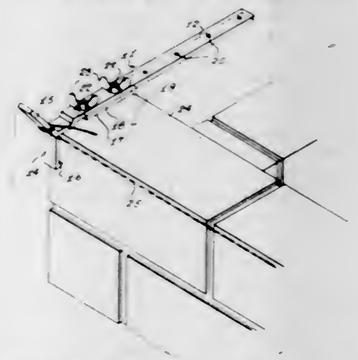
A device of the character described comprising an interchangeable tooth facing having an incisal end, a backing therefor and a metallic body to which the said backing is welded, said facing comprising a non-metallic body having a longitudinally extending socket therein opening on the rear surface of the facing, said facing having an overhanging portion at the incisal end thereof and provided with a transverse slot extending the whole width of the facing and open at the two sides of the same, the lower surface of the overhanging portion of the facing being flat to rest on the upper surface of the said metallic body, said overhanging portion of the facing being further provided with a socket of rectangular cross section opening into the said slot and having a width less than the width of the slot, said socket of rectangular cross section being positioned rearwardly of the longitudinal socket on said facing, said backing having the upper part toward the incisal end of the facing projecting beyond the said metallic body to which it is welded, the said projecting part of the backing comprising a lower portion having a width equal to the width of the facing and arranged to penetrate in the said transverse slot of the overhanging portion of the facing and an upper portion having a width less than the widtn of the backing and being in the form of a pivot of rectangular cross section, having a recess in each side edge thereof, the said pivot being positioned to enter the said socket of rectangular cross section in said overhanging portion of the facing and a longitudinally extending post carried by the backing for entering the longitudinal socket on said facing, whereby the connection of the tooth facing with the backing therefor is effected by three separate engagements.

2,659,972
PROJECTION COMPASS
Edward E. Norris, Minneapolis, Minn.
Application June 21, 1950, Serial No. 169,397
2 Claims. (Cl. 33—21)



2. In an instrument of the class described, a base in the form of an angle bar having a bearing fixed to one of its flanges, a member pivoted to the bearing to turn about an axis parallel to the apex of the base, a pair of jaws, adjustable means connecting the jaws and pivotally attaching the same to said member to turn about an axis extending transversely of the base, said base having a notch in one end portion at its apex, a shaft held by the jaws to be turned thereby into and out of said notch, said adjustable means being operable to clamp the jaws onto the shaft and also clamp one of the jaws onto said member, and a scriber carried by the shaft.

2,659,973
ADJUSTABLE LINE JIG FOR LAYING BRICK AND CONCRETE BLOCK WALLS
Fred W. Patzel, Lincoln, Nebr.
Application April 6, 1951, Serial No. 219,607
2 Claims. (Cl. 33—86)



1. A mason's line jig comprising an elongated flat main body, a first arm coextensive in width with said main body projecting from one end of said main body at right angles thereto, a lug element projecting obliquely outwardly from said end of the main body opposite said arm and coextensive in width therewith, a second arm projecting from the intermediate portion of said main body parallel to and substantially equal in width to said first arm, and an inwardly pro-

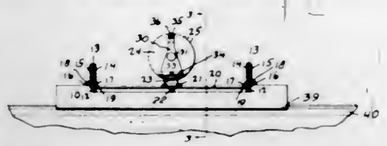
jecting rectangular flange on the end of and equal in width to said first arm and projecting parallel to said main body toward said second arm.

2,659,974
CORD LINE CHALKER
Charles Scudder, Bayside, N. Y.
Application June 4, 1952, Serial No. 291,615
11 Claims. (Cl. 33—87)



1 A cord line chalking device comprising a circular container having a chamber adapted to hold a supply of powdered chalk, the container including a pair of opposed complementary circular shells, an adjustable axial element joining the opposed shells together, the shells being adjusted in relation to one another to permit a cord line to be freely drawn between them, a rotary member carried within the chamber for rotatable movement on the axial member and including a plurality of fins adapted to distribute the powdered chalk about the chamber for contact with the cord line during rotation, and peripheral extensions on the fins adapted for contact with the moving cord line whereby the rotary member is adapted to be rotated.

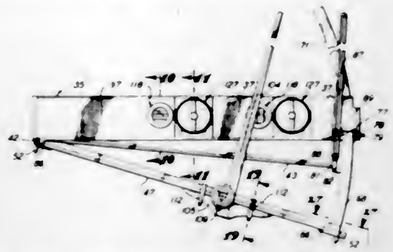
2,659,975
PIPE TOOL
Joseph F. Van Gundy, Emporia, Kans.
Application May 28, 1951, Serial No. 228,670
8 Claims. (Cl. 33—88)



1. A pipe tool comprising a pair of angularly inclined plates including mutually pivoted extending portions whereby said plates are pivoted in relation to each other, a gauging device attached between said plates including a pivotal indicator member including a bubble level attached thereto, indicating means marked on said extending portions for indicating the topmost longitudinal center line along said pipe incidental upon registration of all of said indicating marks and level indicating of said bubble level.

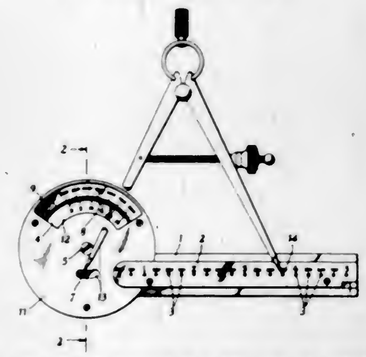
2,659,976
SLOPE LEVEL
Ezra Leo Callahan, Inglewood, Calif.
Application February 28, 1947, Serial No. 731,672
4 Claims. (Cl. 33—98)

1. In a device of the character disclosed, a body having a calibrated straight edge, a calibrated arm having one end pivoted to one end of the said body, a second calibrated arm extending between the first arm and body and pivoted to said body at the point of pivoting of said first arm, both of said arms having straight edges converging on the point of pivoting of said arms with the body, said second arm being movable independently of said body and said first arm to proportion the angle formed between the latter, an arcuate member secured to the end of said first arm opposite the pivot for said arm and extending slidably through said body, the arc of said arcuate member having a center on the point of pivoting of said first arm and the body, and bearing, side by said, scales of degrees and slope per unit of measurement of one side of the angle formed between said first arm and said body, the slope scale being coordinated with the calibrations of said first arm and straight edge



of the body whereby the length of the sides and degree of any angle formed between the body and the first arm and the slope of the first arm per unit of measurement of the straight edge of the body relative to a horizontal plane is indicated, and a rotary indicator carried by said body operable to indicate the degree of slope of the straight edge of the body relative to a predetermined plane.

2,659,977
DEVICE FOR ACCURATELY SETTING CALIPERS
Ivan Benkoe, Hampstead, London, England
Application June 19, 1952, Serial No. 294,338
Claims priority, application Great Britain July 24, 1951
2 Claims. (Cl. 33—107)

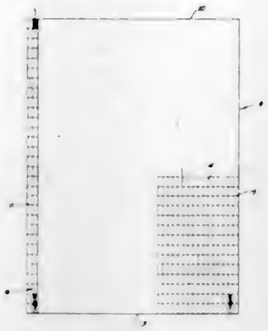


1. A device for accurately setting calipers comprising a base plate carrying a ruler plate provided with a line of conical indentations spaced apart at fixed intervals, a disc pivotally mounted in said base plate having a conical indentation lined up with the conical indentations of the ruler plate and means co-operating with said disc to indicate the movement of the same.

2,659,978
TYPEWRITER GUIDE
Celia Dunn, San Francisco, Calif.
Application March 6, 1952, Serial No. 275,084
4 Claims. (Cl. 33—111)

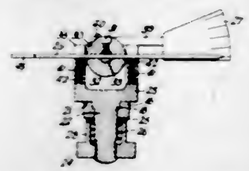
1. A typewriter guide comprising a uniformly flexible backing sheet having a rectangular body

folded over along one edge to provide a first side flap extending longitudinally of the sheet and across one face, the exposed portion of said side flap having line indications numbered in order, said body having a plurality of spaced lines on its



other face extending parallel to said one edge as a guide for folding of the sheet upon itself to form another side flap running parallel to the first side flap but spaced therefrom a distance equal to that of a sheet placed between said flaps for typewriting.

2,659,979
INDICATING DEVICE
Emil Bohnet, Buffalo, N. Y.
Application July 17, 1950, Serial No. 174,288
4 Claims. (Cl. 33—172)



4. An eccentricity indicator, comprising a support bar, a bolt member rotatably mounted on said bar at one end thereof, means arranged to maintain the angular adjustment of said bolt member relative to said bar, said bolt member having an enlarged head which is provided with a recess opening to one axially facing side thereof to provide an annular wall, a holder arranged in said recess and journaled on said annular wall for pivotal action about an axis extending at right angles to the axis about which said bolt member is rotatable, a rod mounted on said holder and extending laterally therefrom, the outer end of said rod being adapted to engage a surface the eccentricity of which is to be checked, and a spring arranged in an axially extending slot in said annular wall on opposite sides of the pivotal axis of said holder and bearing against said rod to urge said rod to a normal centered position, said rod being adapted to enter said slots.

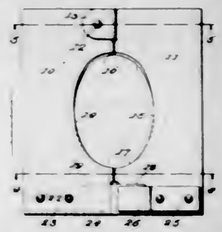
2,659,980
ADJUSTABLE MARKING RULE
Joseph W. Dunn, Los Angeles, Calif.
Application March 7, 1951, Serial No. 214,383
1 Claim. (Cl. 33—174)

An instrument of the character set forth comprising a long flat bar having a top and a bottom longitudinal edge, a laterally projecting means along said bottom edge and upon one side face of the bar for supporting the bar along an edge of a supporting body such as a piece of timber, and means for locating positions of building elements on and lengthwise of said timber comprising flat tongue members equidistantly spaced along and extending from said bottom edge of said flat bar, there being a tongue at each end of the bar and other tongues between the end tongues, each of said tongues having a width equal to the thickness of the said building element and the tongues having their longitudinal centers spaced apart at predetermined distances, said laterally projecting means comprising longitudinally spaced flanges each extending the



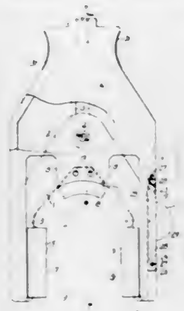
length of the space between two of said tongues, the spacing between adjacent ends of the flanges equaling the width of each tongue, a second flange extending along the top edge of the bar and directed oppositely from said spaced flanges, the bar having a lengthwise slot therein, the bar carrying a linear scale along one face, a pointer element disposed across the slot for coaction with said scale, and a nut and screw for adjustably securing the pointer element on the bar, the screw passing through the slot and pointer and having the nut threaded thereon, said pointer, nut and screw being below and covered by said second flange when the instrument is supported in horizontal position upon the piece of timber.

2,659,981
SCRIBING GAUGE
Jefferson R. Beckham, Atlanta, Ga.
Application August 13, 1951, Serial No. 241,587
4 Claims. (Cl. 33—174)



1. A gauge for scribing a guide line for a predetermined fixed angle cut on a cylindrical pipe, including a pair of flat plate sections side by side in planar alignment and pivotally connected at one pair of adjacent corners to open about an axis perpendicular to the plane of said sections, said plates having semi-elliptical notches formed in their adjacent side edges cooperative when said sections are closed to provide a true elliptical opening in said gauge, said elliptical opening having a minor axis substantially equal in length to the diameter of said pipe, whereby said gauge may be closed about said pipe and tilted to form a guide for a scriber in marking for said predetermined fixed angle cut on said pipe, said gauge when in fully tilted position for scribing closely engaging the outer cylindrical surface of the pipe at all points around the ellipse defined by the gauge plate sections.

2,659,982
CALIPER GAUGE
Friedrich Jakobi, Essen, Germany
Application May 26, 1950, Serial No. 164,390
7 Claims. (Cl. 33—178)



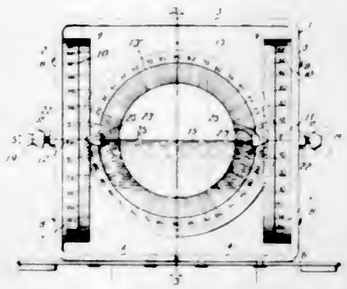
1. In a caliper gauge of the class described, a caliper body, two measuring faces on it adapted to contact two points of a cylindrical test piece diametrically opposite one another, said measuring faces being approximately vertical but slightly inclined towards each other, a casing surrounding the caliper body, said casing being open in the reach of the measuring faces and adapted to prevent any touch of the caliper body by the holding hand, means for guiding and moving freely the caliper body and said casing in relation to one another in the vertical direction, a measuring scale, an index cooperating therewith, one of the two latter being connected with the caliper body the other with said casing, a stop carried by said casing cooperating with the top point of the test piece, said stop being arranged in relation to the index and the measuring scale respectively so as to contact a test piece of nominal size when the index has reached the mark of nominal size of the measuring scale, and gripping means formed upon said casing for placing the two measuring faces astride of the test piece exclusively under the dead weight of the caliper body whereby the measuring scale and the index are moved relatively to each other in accordance with the depth of penetration of the test piece between the measuring faces.

2,659,983
PATTERN TOOL
Edward F. Zore, Milwaukee, Wis., assignor to Handee Products, Inc., a corporation of Wisconsin
Application May 23, 1949, Serial No. 94,901
7 Claims. (Cl. 33—189)



1. A pattern tool for tailors or the like comprising a first holder having a socket therein, a pin projecting axially from said socket, a second holder having a socket formed therein and having a bore in axial alinement with said socket and inwardly thereof, a pair of inserts, the socket of each holder being formed to removably receive one of said inserts and said inserts having axial bores, the bore of one of said inserts being positioned to accommodate a portion of the length of the pin of the first holder when the insert is in position in said first holder, and the bore of the other insert being adapted during use to removably receive the end of said pin when said second insert is positioned in the socket of said second holder, the bore of the last mentioned insert being in axial alinement with the bore of its holder.

2,659,984
FLIGHT AND BANK LEVEL INDICATOR
Lewis B. Ries, Monessen, Pa.
Application March 14, 1952, Serial No. 276,630
1 Claim. (Cl. 33—206)



A single instrument for indicating longitudinal and transverse tilting movements of an aircraft in flight comprising a base adapted to be mounted upon a portion of an aircraft within view of the pilot, a rectangular frame disposed upright upon said base and formed from a strip of stiff metal, said frame having an upper cross bar and vertical side bars connected at upper ends by the upper cross bar and having lower portions extending toward each other and forming a lower cross bar mounted upon said base, circular disks disposed vertically against inner sides of said side bars and formed with central openings aligned with openings formed through the side bars, fasteners passing through upper and lower portions of said side bars and said disks, an annular flange extending entirely about the periphery of each disk and projecting from the inner side of the disk laterally thereof and upon its outer surface bearing scale markings indicating degrees of a circle starting at a horizontal axis of the disk, one disk having a zero mark of its scale at the rear end of its horizontal axis and the other disk having its zero mark at the front end of its horizontal axis, a hollow transparent gauge member disposed vertically between said disks and having a horizontal axis extending transversely of the disks in alignment with the aligned openings in the disks and the side bars of said frame, pins adjustably passing through the aligned openings in the bars and the disks carried thereby and having inner ends engaging said gauge member at opposite ends of the horizontal axis thereof and tiltably mounting the said gauge member, there being degree markings arranged in a circle about a side face of the gauge member, liquid in the lower portion of the hollow gauge member having a flat horizontal upper surface cooperating with the degree markings on the said gauge member for indicating tilting of an aircraft transversely out of its normal position, and pointers carried by said gauge member adjacent opposite ends of the horizontal diameter thereof and extending horizontally from the said gauge member and radially of said disks and terminating in laterally extending tips overlapping the flanges from inner side edges thereof and disposed in cooperating relation to degree markings upon the flanges.

2,659,985
METHOD OF AND APPARATUS FOR PENDULUM COMPENSATING
Raymond T. Cloud, Houston, Tex., assignor to North American Geophysical Co., Houston, Tex., a corporation of Texas
Application August 16, 1947, Serial No. 769,017
8 Claims. (Cl. 33—220)



1. In a vehicle-carried, pendulum controlled, electrical servo system having a follow-up mechanism independent of said pendulum movable by a signal produced as a function of the displacement of said pendulum, the improvements comprising a signal generating unit for producing a signal proportional to the acceleration of the vehicle, and electrical means including a differentiating network for applying said signal to said servo system in opposition to said first mentioned signal produced by said pendulum, thereby neutralizing the effects of acceleration-induced displacement of said pendulum upon said follow-up mechanism.

2,659,986
METHOD OF DRYING HUMAN SERUM ALBUMIN AND OTHER HEAT SENSITIVE BIOLOGICALLY ACTIVE PROTEINS
John H. Hink, Jr., Berkeley, Calif., assignor to Cutter Laboratories, Berkeley, Calif., a corporation of California
No Drawing. Application December 12, 1951, Serial No. 261,397
6 Claims. (Cl. 34—5)

1. The method of dehydrating wet serum albumin and other heat sensitive biologically active proteins comprising: freezing said precipitate and mechanically forming discrete particles thereof; introducing said frozen particles into a body of cold, highly volatile, water-miscible, organic liquid inert with respect to said protein; rapidly stirring said particles in said liquid so as quickly and uniformly to disperse therein water melting from the ice content of said particles and continuing said stirring until all of said ice content has been melted; and finally mechanically separating the ice-free protein precipitate particles from the resulting liquid mixture.

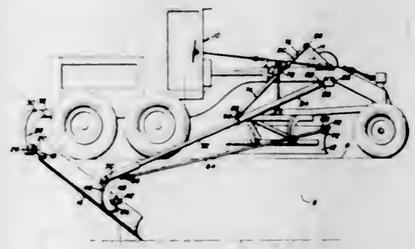
2,659,987
SHEET MOISTURE DRYING MACHINE CONTROL MECHANISM
Andrew E. Bennett, Weymouth, Mass., assignor to Mason-Neilan Regulator Company, Boston, Mass., a voluntary association of Massachusetts
Application December 13, 1952, Serial No. 325,874
17 Claims. (Cl. 34—48)

1. In control mechanism for use in connection with a machine for drying sheet material, wherein the machine includes a main drying section and a sheet moisture indicating section, and each section has a conduit connecting with a source of heating fluid under pressure, in combination, a first variable orifice in the main section conduit, a second variable orifice in the indicating section conduit, means maintaining a constant pressure in the indicating section conduit upstream of said second orifice, mechanism responsive to changes in the rate of heat transfer



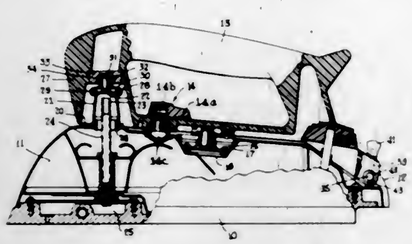
in the indicating section for varying the opening of said second orifice to maintain a constant pressure differential across said orifice within selected limits, and means associated with said mechanism for measuring changes in the opening of said second orifice and varying the opening of said first orifice in proportional relation to said changes.

2,659,988
SLOPING ATTACHMENT FOR GRADERS
Frank I. Braden, Griswold, and Harold R. Godfrey, Elliott, Iowa; said Godfrey assignor to said Braden
Application October 18, 1950, Serial No. 190,768
5 Claims. (Cl. 37—155)



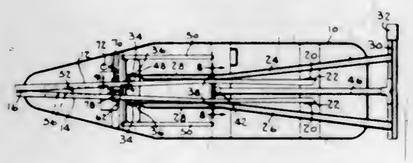
1. In a road grader including forward and rear portions, an earth moving blade mounted beneath the forward portion and a vertically swingable arm mounted upon the forward portion, a bank sloper comprising an elongated sloper blade, means swiveling one end of the sloper blade to the rear portion of the grader, means connecting the other end of the sloper blade to the forward portion of the grader, a connecting member between said connecting means and said arm, and a pitman connecting said sloper blade and said earth moving blade.

2,659,989
STEAM AND DRY FLATIRON
Joseph H. Cone, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application November 19, 1949, Serial No. 128,270
21 Claims. (Cl. 38—77)



1. A steam iron comprising a body including a water tank open at the top for filling and draining; closure means therefor; a handle hinged at one end of the body, occupying either an operative position over the open top of the tank or an emptying position away from the open top of the tank; releasable means for latching the handle rigid with the body in its operative position; and releasable means for latching the handle rigid with the body in its emptying position.

2,659,990
SUPPORT FOR IRONING TABLES
Herbert L. Voigt and Joseph Siczkiewicz, Jr., Milwaukee, Wis., assignors to Geuder, Paeschke & Frey Co., Milwaukee, Wis., a corporation of Wisconsin
Application September 2, 1950, Serial No. 182,903
8 Claims. (Cl. 38—123)



1. In an ironing table having crossed supports pivotally interconnected, a top, a front support comprising spaced legs hingedly connected at their upper ends to said top and connected with each other at the lower ends thereof, a slide on said top, a rear support comprising spaced legs hingedly connected at their upper ends to said slide, said last mentioned legs straddling said front support, a transverse foot secured to the lower ends of said last mentioned legs, a tubular pivot interconnecting all of said legs, and a torque rod connected at its lower end to said transverse foot and at its upper end to said pivot.

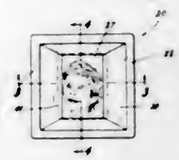
2,659,991
NAME OR DIRECTORY CARD HOLDER
Daniel H. Strayer, Los Angeles, Calif.
Application March 15, 1950, Serial No. 149,842
1 Claim. (Cl. 40—10)

In a name or directory card holder, the combination with a piece plate of transparent material, provided with a slot open at its ends for the reception of a card bearing written or printed matter on its face, which plate is provided at its ends above said slot with inwardly presented horizontal notches, there being vertically disposed grooves formed in the front and rear faces of said plate adjacent and parallel with its ends, the upper ends of which grooves communicate with said horizontal notches, channel shaped end pieces having a length equal to the vertical dimensions of said plate, slidable onto the ends of said plate with the side edges of said channel



shape end pieces occupying the grooves in said plate and horizontal plates integral with the upper ends of said channel shaped end pieces which horizontal plates occupy the inwardly presented notches in said plate above the ends of the slot in said plate to form water and dust proof joints.

2,659,992
FILM MOUNT
Paul G. Kiehl, St. Louis, and William H. Kolath, Jr., Webster Groves, Mo.
Application March 15, 1948, Serial No. 15,004
3 Claims. (Cl. 40—159)



2. A slide binder comprising a transparent top member, said top member having a continuous shoulder extending around the entire periphery thereof, and a transparent base member, said base member including a flange extending around the entire periphery thereof coextensive with and abutting said top member shoulder, each of said members having a planar inner surface, said surfaces being disposed in parallel relation to form with said flange a chamber.

2,659,993
CHRISTMAS TREE ORNAMENT
Lambert L. Raymond, Minneapolis, Minn.
Application June 7, 1950, Serial No. 166,702
1 Claim. (Cl. 41—10)

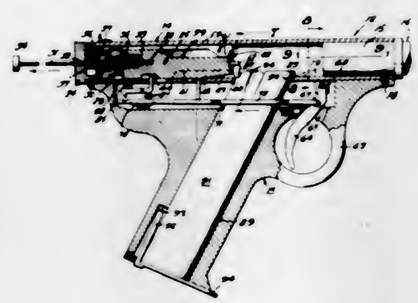
An ornament for a Christmas tree having in combination, a pair of superposed flat sheets of slightly resilient material having a high luster and having upwardly converging edges, means connecting said sheets along said edges, the lower edges of said sheets being free, said sheets extending upwardly and forming an ornamental structure above said converging edges so that an upwardly tapering recess is formed between said sheets having opposite concave sides converging at their ends whereby said ornament can be placed on the end of the trunk or a limb of a

Christmas tree with said trunk or limb disposed and frictionally gripped between said sides and



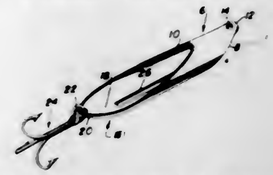
said trunk or limb is engaged by a surface of appreciable extent on each of said sides.

2,659,994
SELF-LOADING SEMIAUTOMATIC PISTOL
Marion W. Yale, Salida, Colo.
Application February 3, 1950, Serial No. 142,231
2 Claims. (Cl. 42—69)



1. In a clip fed semiautomatic firearm, a receiver having an open rear end, a plug detachably connected to and closing the rear end of the receiver, a bolt slidably mounted for longitudinal movement in the receiver, a hammer mounted for sliding movement in the receiver between the bolt and plug, said bolt and hammer being removable from the receiver through its open rear end when the plug is disconnected therefrom, an action rod detachably connected at its forward end to said bolt and extending rearwardly therefrom loosely through the hammer and plug and having an exposed rear end located rearwardly of the plug and adapted to be manually engaged for retracting the bolt and hammer, spring means mounted on the action rod and disposed within the receiver including springs individual to the bolt and hammer for urging the bolt and hammer forwardly of the receiver toward the breach, and a firing pin detachably connected to the hammer and slidably engaging the bolt, said bolt, hammer, spring means and firing pin being removable as a unit with the action rod through the rear end of the receiver when the plug is disengaged therefrom.

2,659,995
FISH LURE
Bernard Hagstrom, Ashland, Wis.
Application September 24, 1951, Serial No. 247,949
1 Claim. (Cl. 43—42.06)



A fishing lure comprising a thin-walled tube of substantially circular cross-section, said tube having the front end of the upper wall thereof curved upwardly and provided with an opening for the attachment of a fishing line thereto, said tube having the rear end of the lower wall thereof curved upwardly and provided with an opening for the attachment of a fishhook thereto, said lower wall having a longitudinal slot therein starting substantially at the bottom of the upward curved portion and extending forwardly thereof the full length of the bottom wall, said tube being entirely open on its upper side from the rear end thereof to a point in advance of the median thereof, the edges of said opening being uninterruptedly downwardly inclined from the front end thereof to substantially the central part of the curved lower wall, and the front end of the tube being arcuate in cross-section and having the bottom edges thereof inclined downwardly and rearwardly and extending inwardly to merge with the longitudinal edges of the longitudinal slot.

2,659,996
BAIT CLAMP
James H. Hegler, Jr., Cleveland, Ohio
Application May 31, 1951, Serial No. 229,095
2 Claims. (Cl. 43—44.6)



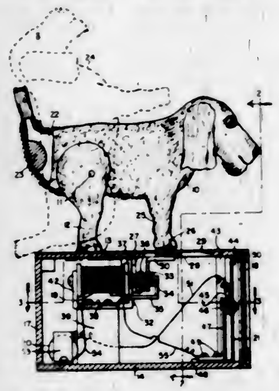
1. A device of the character described comprising a pair of opposed jaws each having a relatively large square body portion and an apertured collar integrally formed at the rear thereof and adjacent one side thereof, said collars and apertures being in transverse alignment, a pin extending through the apertures in said collars, each body portion including a longitudinally-extending groove in its outer surface, the adjacent inner surfaces being serrated, a U-type spring encompassing the rear portions of said jaws to urge the same toward each other, and a pair of fish hooks each having its shank seated in one of said grooves, said hooks being adjustable in their grooves so that their points extend either outwardly from the body portions or inwardly and toward each other to safety positions, said spring having a rounded bight portion and a pair of legs, said legs each being inwardly crimped adjacent the bight portion whereby to partially encompass the pin between said collars and a transversely extending enlarged free end portion of the spring, said end portion holding the adjacent hook in its associated groove, and one of said jaws having a cut-away portion in its inner face at the outer edge of one of the forward corners thereof to form a finger engaging recess.

2,659,997
HOOK AND LEADER HOLDER
Oscar L. Guestinger, Roff, Okla.
Application September 18, 1950, Serial No. 185,348
1 Claim. (Cl. 43—57.5)



A holder and carrier for a plurality of snells comprising a solid flat faced panel of buoyant material, said panel being rectangular and having an imperforate body portion and being provided at one end only with a transversely disposed relatively small rectangular opening, readily attachable and removable screw hooks arranged within the marginal confines of said opening and secured to the transverse marginal edge portion of said opening, a plurality of spaced parallel coil springs also arranged within the marginal confines of said opening and having their end portions secured detachably to their respective attaching and retaining screw hooks, the cross-sectional thickness of said panel being greater than the cross-sections of said coil springs, and selectively usable anchoring hooks detachably mounted on opposite sides of the panel at the end of the panel opposite to that end portion having said opening, said anchoring hooks being in staggered relation with respect to each other and permitting the snells to be applied and carried on both sides of the panel by engaging the fish hooks over selected coil springs and by attaching the usual lead line loops to selected anchoring hooks.

2,659,998
MAGNET-CONTROLLED SIT-UP PUP
John F. Cavanaugh, Washington, D. C.
Application February 21, 1951, Serial No. 212,009
2 Claims. (Cl. 46—45)



1. A sound actuated toy comprising a pedestal, a body pivotally mounted on the pedestal, a magnet in the body, a magnet in the pedestal positioned to coact with the magnet in the body to retain the body in one position, a counterweight in the body positioned to actuate the body about the pivot when the magnet in the body is released by the magnet in the pedestal, a solenoid in the pedestal for drawing the magnet in the pedestal away from a position in which it coacts with the magnet in the body, a battery in the pedestal, a diaphragm in the pedestal, and contacts actuated by the diaphragm in the pedestal for completing a circuit to the solenoid for drawing the magnet in the pedestal away from the position below the magnet in the body for releasing the body.

2,659,999
CONTROL FOR MODEL AIRPLANES
Edwin E. Turner, Oxford, Miss.
Application May 2, 1952, Serial No. 285,588
6 Claims. (Cl. 46—77)

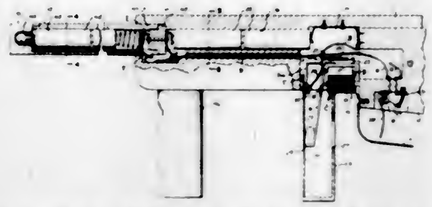


6. A model airplane and control assembly comprising an airplane frame, flight control members carried by said frame and movable relative thereto, and remote control means for moving said flight control members relative to said frame comprising rings surrounding said frame at locations spaced apart therealong and rotatable around said frame and movable transversely thereof, ring actuated mechanism mounted on said frame and connected to said flight control members for moving the latter in a predetermined manner in response to movement of said rings transversely of said frame, and control strings connected one to each of said rings and extending from said rings for use by an operator standing on the ground to control the airplane in flight, said ring actuated mechanism including rocking levers pivotally mounted on said frame for rocking movement about axes disposed substantially in a plane perpendicular to the longitudinal center line of said frame, said rocking levers extending to opposite sides of said plane, and said rings being disposed one at each side of said plane and engaging the corresponding portions of said rocking levers.

2,660,000
TOY SOUNDING FLASH GUN
Lawrence H. Strayer, Kent, Ohio
Application August 10, 1950, Serial No. 178,615
3 Claims. (Cl. 46—175)

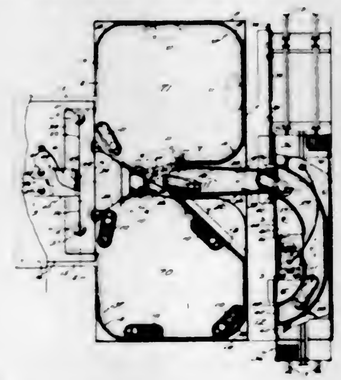
1. A toy gun comprising a stock, a sounding board mounted on said stock, an arm swingably mounted and having a weighted head at a free end thereof in striking relation to said sounding board, and battery operated vibratory means operable to swing said arm with vibratory action and thereby strike said head thereof against said sounding board in successive noise-making blows, said gun having a barrel mounted on said stock, a lamp mounted in said barrel at the free

end thereof, and battery operated electrical means operable by said vibratory means in syn-



chronization with said vibratory action of said arm for intermittently lighting said lamp.

2,660,001
TOY WITH TRAVELING FIGURETTE
William R. Smith, Philadelphia, Pa., and Gabriel R. Monaco, New Haven, Conn., assignors to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Application February 14, 1951, Serial No. 210,813
16 Claims. (Cl. 46—216)



1. An animated toy comprising in combination, a base having a vibratory floor surface clear of obstacles and substantially as wide as it is long, at least one loose figurette equipped to be impelled with a constant tendency to drift laterally as it is caused to advance over said floor surface by vibration of the latter, fencing structure nearly enclosing said floor surface slidably engageable by the side of said figurette toward which the latter tends to drift thereby to guide the figurette in a path of travel following the perimeter of said floor surface, a gangway in said guiding structure wide enough to permit escape of said figurette from said floor surface, and a gate spanning said gangway forming in one position a continuation of said guiding structure and completing the enclosure of said floor surface, said gate being shiftable at will to a position clearing said gangway and operative to guide said figurette in a path of escape through said gangway from said floor surface.

2,660,002
POLLINATING CARTRIDGE
Louis J. Farley, Wapato, Wash.
Application April 15, 1948, Serial No. 21,109
7 Claims. (Cl. 47—1)

5. A cartridge comprising a cylindrical body, a propellent mounted in said body adjacent one end thereof, comprising a light charge of powder adapted to rapid combustion, a load of viable pollen admixed with a suitable dry pulverulent distributing medium, a wad column intermediate said propellent and said load comprising an



over powder wad and two filler wads, a top wad for the other end of said cartridge of a material effective to retain the load in place but sufficiently pervious to gases to admit oxygen to the load so as to maintain the pollen in a viable condition.

2,660,003
METHOD OF POLLINATION
Louis J. Farley, Wapato, Wash.
Application November 21, 1947, Serial No. 787,388
5 Claims. (Cl. 47—58)



1. The method of artificially pollinating a blossoming entity of fruit and nut trees consisting of mixing the pollen with a suitable carrier, dividing up the pollen mixture into defined charges, and causing an explosion adjacent each charge so as to direct the pollen in a defined pattern into said blossom bearing entity.

2,660,004
SUPPORT FIXTURE FOR SUPPORTING PRONGED STRUCTURES
Charles W. Daley, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application June 28, 1950, Serial No. 170,829
6 Claims. (Cl. 49—2)



1. A fixture for an electron tube processing machine adapted to receive a flat glass stem having prongs of equal diameter extending from one face of the stem and having axes disposed in a circular array, said fixture having a surface adapted to receive said glass stem, said surface having bores therein adapted to receive said prongs, one of said bores having a predetermined

diameter and adapted to receive one of said prongs in a snug fit and having an axis disposed in said array, the others of said bores having diameters larger than said predetermined diameter and adapted to receive the others of said prongs in loose fits and having axes disposed in a circular array concentric with and of larger radius than said first named circular array, said others of said bores being defined by walls having portions adapted to contact said others of said prongs, whereby the mounting of said stem on said fixture is facilitated.

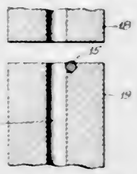
2,660,005

METHOD OF MAKING MERCURY COLUMN THERMOSTATS

William M. Smith, Wheaton, and Benjamin F. Freeberg and Alva W. Tharp, Chicago, Ill., assignors to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware

Original application February 17, 1949, Serial No. 76,954. Divided and this application October 16, 1951, Serial No. 251,608

4 Claims. (Cl. 49—81)



1. An improved method of embedding a contact wire in a glass tube so as to communicate with the central bore of the tube, which consists in severing the tube on a transverse line to provide two sections, arranging the contact wire against an end surface of one section of the tube with an intermediate portion of the wire positioned on a line which cuts the circumference of the bore at one side thereof, passing electrical current through the wire to heat the wire and adjacent material of the tube to fuse them together so as to maintain the wire in proper position relative to the bore of the tube, then heating the adjacent ends of the two sections of the tube and fusing them together, whereby the said wire is embedded in the adjacent faces of said sections.

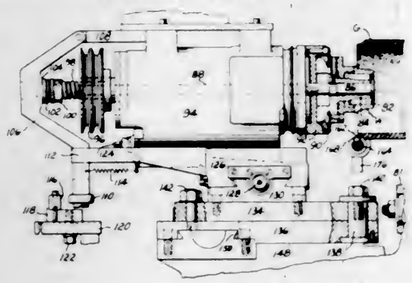
2,660,006

GRINDING MACHINE

Franklyn P. Hegeman, Union, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application February 25, 1950, Serial No. 146,173

6 Claims. (Cl. 51—5)



1. In a machine for grinding a spherical surface on a flange upstanding from the tapered raceway of a bearing ring, a work head having a work support journalled about an axis, a cup-shaped grinding wheel journalled about an axis intersecting the work support axis, the grinding wheel having a cylindrical wall terminating in a parti-spherical end grinding face to surround the work support and engage the spherical surface of the flange, the center of curvature of said parti-spherical grinding face lying at the intersection of said axes, a swivel plate supporting the work head and having a pivot provided with an axis tangent to said end grinding face, a rock shaft mounted on the swivel plate with its axis in a plane through the pivot axis, and a tool mounted on the rock shaft to cut down the thickness of the outer portion of the wheel beyond the spherical edge.

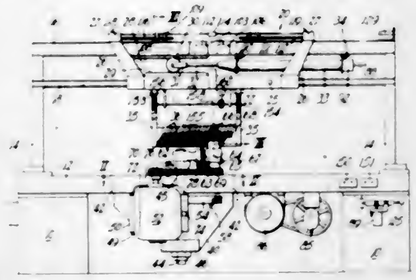
2,660,007

SURFACE FINISHING MACHINE

William C. Burt, Olean, N. Y., assignor to Clair Manufacturing Company, Inc., Olean, N. Y.

Application May 5, 1950, Serial No. 160,291

8 Claims. (Cl. 51—84)



7. In a polishing machine, in combination, a polishing tool mounted for movement into and out of an operative position, means operatively connected with said tool for driving the same, power operated means connected with said tool and serving to alternately move the tool into and out of an operative position, a work holder movably mounted for reciprocation adjacent to and in a plane substantially parallel to the tool, said work holder including a work supporting means arranged for supporting the work in position for polishing engagement by said tool as the work holder is reciprocated, power means for reciprocating the work holder, and control means connected with the power means and responsive to movement of the work holder approaching a position of adjacency between end portions of the holder and said tool and adapted to thereupon actuate the power means to move the tool out of its working position and thereby avoid interference with the said end portions of the frame and to be also actuated by movement of the holder retreating from a position of adjacency between the frame and said tool and to thereupon actuate the power means to cause the tool to move to a work contacting position for polishing purposes.

2,660,008

DRILL GRINDING JIG

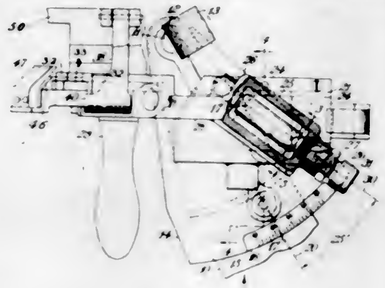
Harold Cornelius Reading, London, England

Application January 22, 1951, Serial No. 207,094

13 Claims. (Cl. 51—96)

1. The combination with a rotatably mounted grinding wheel of a drill grinding jig comprising a base, a first slideway rotatably adjustable on the base about a first axis tangential to a

circle concentric with the grinding wheel, which slideway extends obliquely to the axis of rotation of the grinding wheel, a slide adjustable in the slideway, a pillar fixed to the slide, an arm pivotally engaging the pillar so as to swing about a second axis which is inclined to the plane containing the first axis at an angle determined by the rotating adjustment of the first



slideway, a second slideway on said arm, a second slide in second slideway, and a drill guide fixed to the second slide and extending in a direction towards the periphery of the grinding wheel which second slideway extends in a direction having a component in a direction towards and away from the periphery of the grinding wheel and a component in a direction parallel to the first said axis.

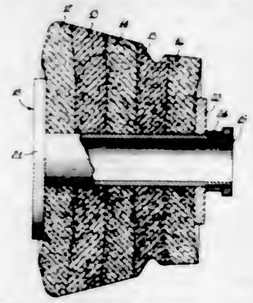
2,660,009

ABRADING WHEEL

Samuel Goldberg, Detroit, Mich., assignor to Lyon, Incorporated, Detroit, Mich., a corporation of Michigan

Application January 5, 1952, Serial No. 265,066

2 Claims. (Cl. 51—193)



1. An abrading wheel assembly comprising a rotatable arbor and an abrading wheel supported for rotation by said arbor, said abrading wheel including an abrading element comprising a self-sustaining felted mat of bagasse fibers.

2,660,010

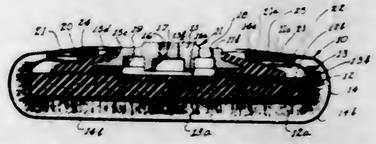
BUFFING WHEEL

Harvey E. Larsen, Steger, Ill., assignor to Steger Products Manufacturing Corporation, Steger, Ill., a corporation of Illinois

Application September 18, 1952, Serial No. 310,323

2 Claims. (Cl. 51—197)

1. A buffing wheel comprising a buffing head adapted to threadedly engage a drive shaft for co-rotation therewith and having grooves cut in a face thereof, a sheep-skin overlying said face and secured to said head, a porous rubber pad backing said sheep-skin seated in said grooves for



co-rotation with said head, and a buffing surface cloth covering said sheep-skin, resilient backing member and head.

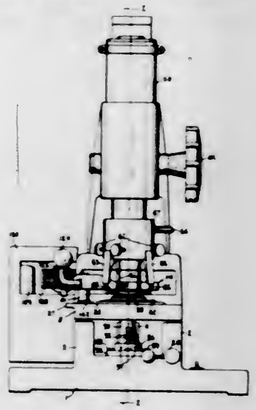
2,660,011

LENS BLOCKING DEVICE

Daniel P. Bernheim, Southbridge, and Carl G. Silverberg, Sturbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application August 7, 1948, Serial No. 43,066

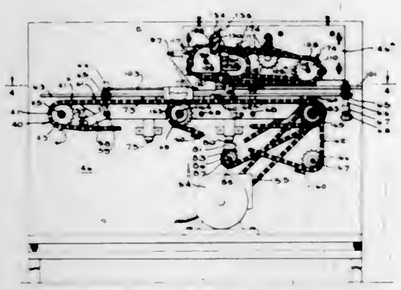
16 Claims. (Cl. 51—277)



1. In a device of the character described, the combination of a base, adjusting means on said base for supporting a lens blank in a predetermined position, a holding device supported on said base having gripping means adapted to contact and retain said lens blank in adjusted position, said holding device being movable with said gripping means and said lens blank in a direction toward or away from the adjusting means, retaining means on said base normally supporting said holding device in a position spaced from the adjusting means, lens block supporting means on said base having a lens block supported thereon in spaced axial alignment with said holding device, said lens block having a heat softenable adhesive substance fixedly secured to the surface thereof, a heating device rotatably mounted on said base and adapted to be moved into and out of operative position between the lens blank and the adhesive on the lens block and to heat the adjacent surfaces thereof, a switch positioned for operation by the heating element upon rotation thereof into operative position between the lens blank and adhesive, a timing device under control of said switch and means operable by said timing device for automatically returning the heating element to inoperative position from between the blank and adhesive upon completion of the timing cycle, and a second switch arrangement operable by the heating element upon rotation into said inoperative position from between the blank and adhesive and means en-

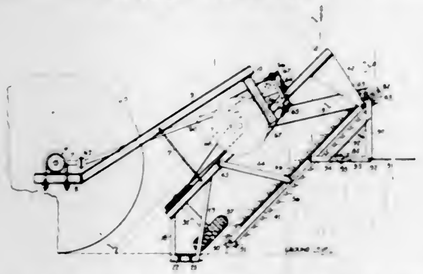
ergizable by said second switch for releasing said retaining means and moving the holding devise for the lens blank toward the lens block so that the lens blank will engage with the adhesive on the lens block while the lens blank is retained in adjusted position.

2,660,012
MACHINE FOR CLOSING CARTONS
John Boyce, San Jose, and Dudley W. Hayes, Campbell, Calif., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application December 6, 1950, Serial No. 199,506
32 Claims. (Cl. 53—147)



1. A machine for closing cartons of the type comprised of a carton body having a rear wall and an end wall provided with an incision, and a carton cover hingedly connected to said rear wall and having an end flap provided with a tab, which machine comprises conveying means arranged to advance the carton along a predetermined path with its end wall parallel to said path, first means adapted to move in timed relationship with said conveying means over a portion of said predetermined path and to project inwardly and engage the end wall of the carton body so as to open the incision therein, second means effective to bend the end flap of the carton cover into parallel relation with the end wall of the carton body, and third means effective during the effective phase of said first means to fold the carton cover upon said carton body in a manner introducing the tab of the end flap into the open incision in the end wall of the carton body.

2,660,013
PEANUT VINE PULLING MACHINE
William E. Priestley, Kendall, N. Y.
Application December 4, 1948, Serial No. 63,480
5 Claims. (Cl. 55—66)



1. In a peanut harvesting machine, a power driven carrier for moving along a row of peanut vines, two wheels attached to said carrier and both having rubber tires, said wheels being located on parallel axes at a predetermined angle away from the vertical and at predetermined distances apart to cause said tires to make a travelling contact, said wheels being located just above the surface of the ground and adapted to move along a row of vines in a manner that the vines may enter between said wheels at the initial travel point of their contact and may leave said wheels at the last of their travelling contact, power operated means for driving said wheels in a direction to make their points of contact travel in a direction opposite to the direction of travel of said power driven carrier and at a corresponding speed.

2,660,014
DISK HARROW GANG AND FRAME CONNECTION
Kelly P. Ryan, Blair, Nebr., assignor to Kelly Ryan Equipment Company, Blair, Nebr.
Application April 29, 1949, Serial No. 90,443
7 Claims. (Cl. 55—83)



1. A farm implement comprising a pair of elongated tool-supporting frames having inner adjacent ends, a cross-member extending between the inner ends of said frames, a beam connected to said cross-member, a substantially L-shaped strap at each end of said cross-member and attached to the inner ends of the frames, each of said straps having first and second leg portions, a pin fixed to the first leg portion of each strap, said pins being pivotally connected to the inner ends of said frames, connections between the cross-member and the second leg portions of the straps, channels at the ends of the cross-member receiving the pins, and means within the channels restricting rotation of said pins, means forming part of said connections urging the strap from the cross-member.

2,660,015
AUTOMATIC CONTROL MECHANISM FOR COTTON HARVESTERS
Ernest V. Briscoe, Kerman, Calif., assignor to E. V. Briscoe & Son, Kerman, Calif., a partnership
Application March 10, 1952, Serial No. 275,705
3 Claims. (Cl. 56—11)

1. In a cotton harvester which includes a mobile frame mounted for movement along a crop row, a cotton picking unit, means suspending the unit from the frame for vertical adjustment, a normally inactive hydraulic power cylinder connected between the frame and said means to lift the unit upon pressure being supplied to the cylinder, and a fluid pressure conduit system connected to the cylinder; means to control the flow of fluid through the system to the cylinder to actuate the latter to lift the picking unit, the latter including an upstanding frame post and a plant lifter ahead of and spaced at its lower end from the post and providing a laterally extending recess therebetween, said control means comprising a valve interposed in the conduit system and mounted on the picking unit rearwardly

of the post, said valve including a forwardly projecting actuating rod movable rearwardly to open the valve and supply fluid to the cylinder, a ground engaging wheel disposed in the recess, a substantially horizontal plate above and from which the wheel is supported, means pivoting the

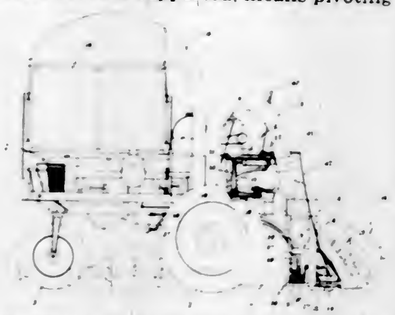
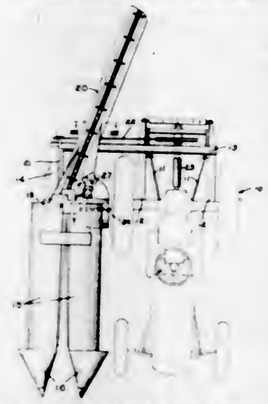


plate at its rear end on the post, a mechanism between said actuating rod and the plate to move the rod rearwardly upon upward tilting of the plate, and a spring acting on the rod and plate to pull the rod forwardly and press the plate down to maintain the wheel in contact with the ground.

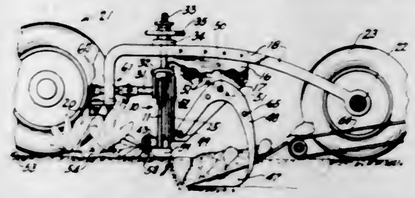
2,660,016
TRASH CLEARING DEVICE FOR CORN HARVESTERS
Clarence B. Richey, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application August 13, 1951, Serial No. 241,528
2 Claims. (Cl. 56—111)



1. In a corn picker having a pair of juxtaposed inclined snapping rolls having elevated discharge ends, an air blower having a discharge opening located below and rearwardly of said elevated discharge ends, said discharge opening being directed upwardly and forwardly toward said discharge ends to deflect broken stalks and other trash forwardly between the rolls for discharge thereby.

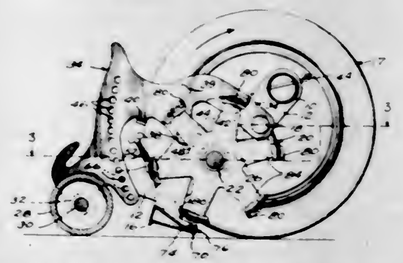
2,660,017
BEET TOPPING MACHINE
Hyrum K. North and Orlin G. North, Salt Lake City, Utah
Application November 2, 1951, Serial No. 254,526
3 Claims. (Cl. 56—121.42)

1. A root-topping machine, comprising the combination, with a structural frame adapted to extend substantially horizontally over the ground, and means for supporting said frame above the ground for movement thereover, of mutually opposing and spaced slideway members depending from fixed securement to said frame transversely of the longitudinal axis of the latter; a gauging and cutting mechanism slidably mounted in and between said slideway members for up and down vertical movement therein, said mechanism including a substantially rectangular supporting plate bifurcated upwardly from its lower edge and directly slidably received by said slideway members, guide wheels journaled in mutually spaced relationship on one face of said plate, an endless knife band received by said guide wheels and having a portion thereof extending across



the bifurcation of said plate adjacent the lower margin of the latter in position for cutting off protruding tops of roots growing in the ground, a gauging roller assembly rigidly secured to said plate and extending across said bifurcation in advance of said knife band portion, and means for driving said knife band; mounting stem means extending upwardly from rigid securement to said supporting plate; passage means in said frame through which said mounting stem means slidably pass for free up and down movement; and suspension means vertically adjustably secured to said stem means above the frame and normally resting on the latter for suspending said gauging and cutting mechanism in given adjusted but floating position relative to the surface of the ground.

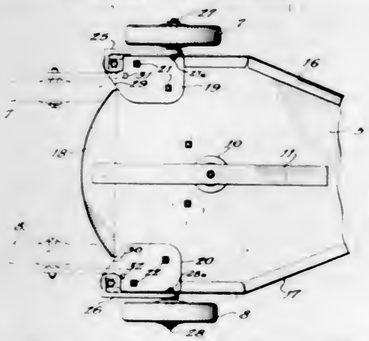
2,660,018
REEL MOWER
Richard D. Clemson, Middletown, N. Y., assignor to Clemson Bros., Inc., Middletown, N. Y.
Application December 15, 1948, Serial No. 65,462
11 Claims. (Cl. 56—249)



1. In a lawn mower having at least one pair of cutting blades with their edges angularly related, a support member for at least one of said blades, a hard shear strip member positioned and supported along at least one of said blades and having a broad angle shearing edge, said strip being secured to said support member by fixed headed fastenings and keyhole slots, said slots being substantially longitudinal of the strip with their narrower ends extending toward the leading end of said strip, whereby the reaction to shearing

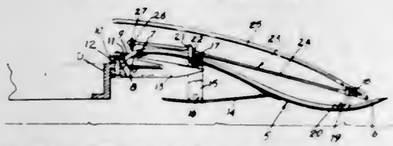
exerts a longitudinal thrust driving said narrower end of the slots on the headed fastenings therein during shearing.

2,660,019
FRONT WHEEL MOUNTING FOR MOWERS
William H. Phelps, Ralston, Nebr.
Application March 18, 1950, Serial No. 150,380
7 Claims. (Cl. 56—255)



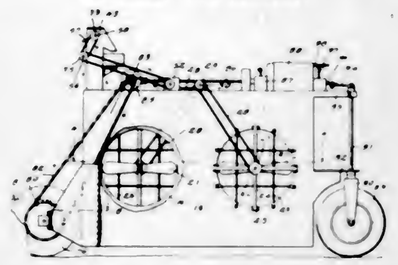
1. In a power mower of the type which has a frame and four supporting wheels with a horizontally rotatable blade beneath the frame, means for connecting at least one of the wheels to the frame, comprising: a shifter arm having a central portion and oppositely extending end portions, one end portion forming a stub axle for the wheel and the other end portion forming a bearing for connection to the frame; and interengaging means operatively connecting said last mentioned end portion to the frame, said interengaging means being capable of being loosened to permit said arm and wheel to be swung from a position alongside said frame 180° to a position in which said wheels will lie within the lateral confines of the frame.

2,660,020
GRAIN LIFTING DEVICE
Simon Klug, Caledonia, Minn.
Application June 5, 1950, Serial No. 166,270
7 Claims. (Cl. 56—320)



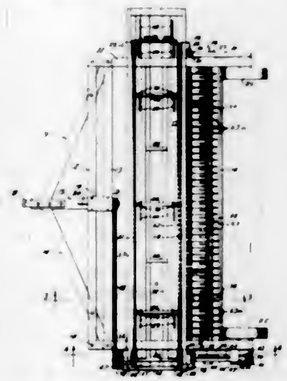
1. A grain lifting device for use in conjunction with a grain binder sickle guard comprising an angulated support member, mounting structure for swingably mounting said member on the binder adjacent said guard and in overhanging relation thereto for upward and downward floating movement relative to said guard and over the ground and for swinging movement laterally of said guard, said support member extending forwardly and downwardly relative to such guard when so mounted, said member having a forward grain engaging portion and having a support surface extending laterally and rearwardly from said forward portion whereby grain engaged by said portion may slide rearwardly over said surface and said portion and thereby be provided with a relatively broad support to insure that the entire upper portions of the grain will be maintained at a level above said guard while said grain is being cut.

2,660,021
BERRYPICKING MACHINE
Fred McDowell, Neptune, N. J.
Application April 29, 1952, Serial No. 284,980
4 Claims. (Cl. 56—330)



1. A berry picking machine comprising an inverted U-shaped frame member having opposing spaced sides, traction wheels carried by said frame, inwardly projecting spaced apart bottom walls on the lower ends of said sides, the inner free edges of said bottom walls being spaced apart whereby the bottom walls can straddle plants, said bottom walls being inclined inwardly and downwardly, a fan carried by each side of said frame adapted to create an air stream directed toward the opposite side of the frame, one fan being longitudinally offset with respect to the other fan, operating means for said fans, a longitudinal conveyor adjacent the inner edge of each wall, a pair of receivers carried by said frame, and means associated with said frame receiving the berries from said conveyors, and conveying the berries to said receivers.

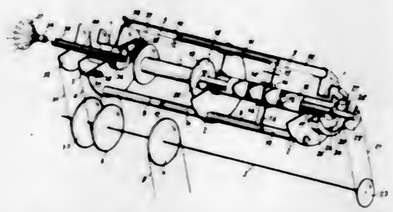
2,660,022
SIDE DELIVERY HAYRAKE
Harry W. Hester, Chenoa, Ill.
Application April 23, 1952, Serial No. 283,925
11 Claims. (Cl. 56—366)



1. In a side delivery rake of the type having a pick-up mechanism for bunching the hay below a side delivery mechanism, the improvement which comprises a wheel-supported, box-shape frame, said frame being laterally elongated and having vertical, front, rear, and lateral frame members, a drive shaft rotatably mounted on one of said lateral frame members and extending in a forward and rearward direction, a pair of sprockets on said shaft spaced from each other, additional sprockets rotatably mounted on said frame forming a set of four sprockets arranged

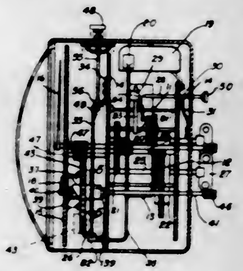
in alignment at the front and at the rear of said frame, an endless driven chain about each set of four sprockets, parallel rods carried by said chains and extending from chain to chain at regularly spaced intervals, a plurality of wire prong members rotatably mounted upon each rod, each prong member having a coiled portion about said rod and having a longer raking leg extending outwardly from said rod, a shorter leg slidably engaging said front and rear frame members as guides, the longer legs projecting downward and laterally in the direction of motion on those portions of the chains which are below the sprockets, and the shorter leg trailing horizontally on said guides, the prongs engaging and lifting bunched hay due to the angle of said longer legs and carrying the hay to the side of the frame to deliver it in a windrow.

2,660,023
TWISTING FRAME
Hans Bachofen, Bulach, Switzerland
Application January 12, 1950, Serial No. 138,174
Claims priority, application Switzerland
November 26, 1949
8 Claims. (Cl. 57—71)



3. In a twisting device, apparatus for winding the twisted thread onto a winding bobbin, comprising in combination, a first rotatably mounted shaft fixedly connected to the winding bobbin for rotating the same; thread guide means located adjacent to the winding bobbin and mounted for rotation about the axis of said first shaft and for translation in a direction substantially parallel to the axis of said first shaft so as to guide the twisted thread onto the winding bobbin; a second shaft, said second shaft being hollow and having an internal diameter which is substantially larger than the diameter of said first shaft and said second shaft being mounted for rotation concentrically about said first shaft so that said second shaft is spaced from said first shaft, the outer surface of said second shaft being formed with a pair of oppositely directed intersecting threads; slide means engaging said threads and being slidably mounted on said second shaft so as to be moved in translation on said shaft by said threads, said slide means being fixedly connected to said thread guide means so as to move the latter in translation; first drive means operatively connected to said first shaft for rotating the same; second drive means operatively connected to said thread guide means for rotating the same at a speed different from the speed of rotation of said first shaft; and transmission means interconnecting said thread guide means and second shaft for rotating the latter in response to rotation of said thread guide means and at a speed different from the speeds of rotation of said first shaft and said thread guide means, said transmission means comprising a first gear member connected to said thread guide means for rotation with the same; a second gear member connected to said first shaft for rotation with the same; and at least one planetary gear mounted on said second shaft for rotation about an axis substantially parallel to the axis of said first shaft and meshing with said first and second gear members so as to be rotated by the same and thereby rotate said second shaft.

2,660,024
REPEATING ALARM CLOCK
Robert Gary, Baltimore, Md.
Application November 12, 1949, Serial No. 126,812
4 Claims. (Cl. 58—21.11)



1. In combination with a clock mechanism, an alarm system comprising a gong, a hammer for striking said gong, mechanism constantly tending to actuate the hammer and means for alternately constraining and releasing said mechanism including a cam having a pair of oppositely located faces, said cam being constantly rotated by the clock mechanism, an alarm setting shaft extending through said cam and on which said cam is slidably and rotatably mounted, means on said shaft for selectively engaging the opposite faces of the cam, a shifter engaging said cam and controlled thereby, locking means between said shifter and hammer, said locking means normally preventing actuation of the hammer to strike the gong and said locking means releasing the hammer to strike the gong upon rotation of the cam to a predetermined setting of the aforesaid alarm setting shaft.

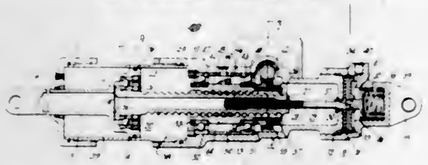
2,660,025
SETTING AND LIKE MECHANISM FOR TIMEPIECES
Fernand Reymond, Le Sentier, Switzerland
Application June 8, 1951, Serial No. 230,515
Claims priority, application Switzerland
August 21, 1950
6 Claims. (Cl. 58—80)



1. A timepiece comprising, in combination, a casing having a first transmission member turnably mounted within same, said casing having a rear wall; a second transmission member located within said casing and being mounted on said rear wall thereof for turning movement and for movement into and out of engagement with said first transmission member; manually engageable means located on said rear wall of said casing on the outside thereof and being operatively connected to said second transmission member for turning the same and moving the same into and

out of engagement with said first transmission member; and holding means operatively connected to said second transmission member for releasably holding the same in a first position in engagement with said first transmission member and in a second position out of engagement with said first transmission member.

2,660,026
DUAL DRIVE ACTUATOR
Howard M. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 5, 1952, Serial No. 324,273
20 Claims. (Cl. 60—6)



20. A dual drive actuator including, in combination, a cylinder, a piston in said cylinder capable of fluid pressure actuation in either direction, releasable locking means operatively associated with said piston for preventing movement of said piston when no fluid pressure is exerted thereon, and auxiliary means operatively connected to said piston for effecting linear movement thereof in either direction with the locking means in the locked condition.

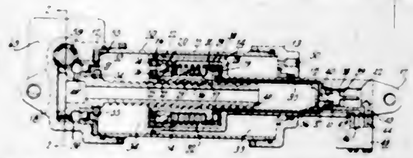
2,660,027
DUAL DRIVE ACTUATOR
Howard M. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 5, 1952, Serial No. 324,274
13 Claims. (Cl. 60—6)



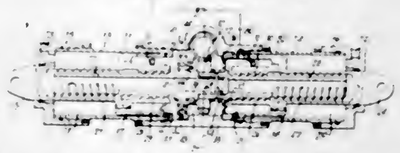
1. A dual drive actuator including, in combination, a cylinder, a lineally movable piston in said cylinder capable of fluid pressure actuation in either direction, releasable locking means operatively associated with said piston for preventing movement of said piston when no fluid pressure is exerted thereon, and auxiliary driving means operatively connected to said locking means for effecting linear movement of said piston in either direction, said auxiliary means, when inactive, maintaining said locking means operative to prevent piston movement and, when active, operative to effect piston movement through said locking means.

2,660,028
DUAL DRIVE ACTUATOR
Howard M. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 5, 1952, Serial No. 324,275
13 Claims. (Cl. 60—6)

1. A dual drive actuator including in combination, a cylinder having a lineally movable piston disposed therein capable of fluid pressure actuation in either direction, releasable locking means operatively associated with said piston for preventing movement of said piston when no fluid pressure is exerted thereon, and auxiliary driving means operatively connected to said piston for effecting linear movement thereof in either direction in lieu of fluid pressure actuation, the operative connection between said piston and said auxiliary means including an internally threaded nut rotatably journaled in said piston, the said locking means in the locked condition, and an externally threaded shaft disposed in said cylinder and threadedly engaging said nut whereby relative rotation will occur between said shaft and nut upon linear movement of said piston.

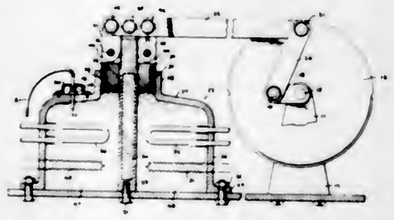


2,660,029
DUAL DRIVE ACTUATOR
Howard M. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 5, 1952, Serial No. 324,276
17 Claims. (Cl. 60—6)



17. A dual drive actuator including, in combination, a cylinder, a pair of lineally movable pistons in said cylinder capable of fluid pressure actuation in either direction, said pistons being operatively interconnected so as to move simultaneously in opposite directions upon actuation thereof, releasable locking means operatively associated with said pistons for holding said pistons against movement when no fluid pressure is exerted upon said pistons, and auxiliary means operatively connected to said pistons for effecting linear movements thereof in either direction with the locking means in the locked condition.

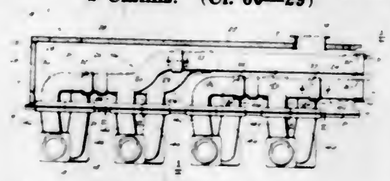
2,660,030
POWER GENERATOR
Gérard R. Santos, Philadelphia, Pa.
Application July 21, 1951, Serial No. 237,926
9 Claims. (Cl. 60—23)



1. In a power generator, a pair of chambers each having a cylinder communicating therewith,

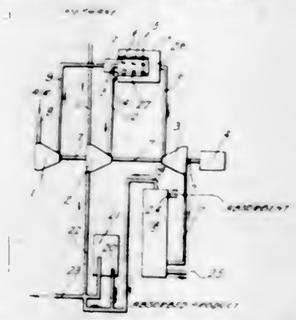
a piston in each of said cylinders, a lever pivotally mounted on a fixed axis between said pistons, operative connections between each of said pistons and said lever on opposite sides of said pivotal mounting, an expansive liquid in each of said chambers, a heating device in each of said chambers, a cooling device in each of said chambers, and control mechanism for causing the heating device in one chamber to be effective at the same time that the heating device in the other chamber is ineffective while the cooling device in said other chamber is effective at the same time that the cooling device in the first said chamber is ineffective.

2,660,031
EXHAUST MANIFOLD FOR INTERNAL-COMBUSTION ENGINES
Frederic C. Tromel, Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application January 3, 1951, Serial No. 204,146
2 Claims. (Cl. 60—29)



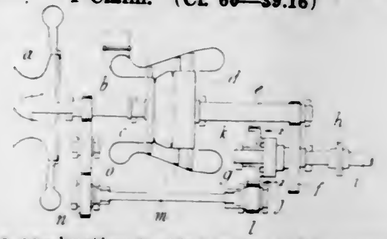
1. An exhaust manifold for a compression ignition engine of the class which has a turbocharger driven by the engine exhaust gases comprising a plurality of main conduits, a plurality of branch conduits to receive the exhaust gases from the power cylinders of the engine, a plurality of intermediate conduits rigidly connected to the branch conduits on one end and to the main conduits in slip joint relation on the other end, a gas collector enclosing the main and intermediate conduits and movable relative to the latter to capture any exhaust gases escaping through the slip joints, and means to conduct such escape gases from the collector to the atmosphere.

2,660,032
GAS TURBINE CYCLE EMPLOYING SECONDARY FUEL AS A COOLANT
Henry Rosenthal, Yonkers, N. Y.
Application October 4, 1947, Serial No. 778,001
29 Claims. (Cl. 60—39.02)



10. In a gas turbine cycle of a suitably connected gas turbine unit, the steps comprising passing a stream initially containing a combustible material into the primary reaction zone of the combustion chamber of said unit and substantially completely burning said material therein, thus raising the temperature of said stream above 2000° F., introducing additional combustible material as a second separate stream into a secondary reaction zone of said chamber, passing the thus heated first mentioned stream into said secondary reaction zone and mixing it with the second stream therein, thereby promoting endothermic reaction of said combustible material in the latter stream and lowering the temperature of the reacting mixture somewhat below 2000° F., then substantially immediately passing the hot reacting mixture into a gas turbine and lowering its temperature by substantially immediate adiabatic expansion, whereby the hot reacting mixture is effectively cooled in a time of substantially less than 20 milli-seconds.

2,660,033
FREEWHEELING CLUTCH BETWEEN A COMPRESSOR TURBINE AND AN OUTPUT TURBINE
Andrew Thomson Bowden, Jesmond, Newcastle-upon-Tyne, Alfred Müller, Penwortham, Preston, and Paul Kolb, Waldemar Hryniszak, and Otto Zadnick, Whitley Bay, England, assignors of one-sixth to C. A. Parsons & Company Limited, Newcastle-upon-Tyne, England
Application March 8, 1949, Serial No. 80,242
1 Claim. (Cl. 60—39.16)



In a combustion turbine unit, and in combination, a compressor set comprising a compressor and a turbine driving the same, an output turbine normally running mechanically independently of the compressor set, and means for coupling the compressor set in driven relation to the output turbine, the last said means comprising gearing for driving the compressor set at a predetermined speed ratio to the output turbine, and a free wheeling clutch having a driving member driven by the output turbine, a driven member for driving the compressor set, and means for coupling the two said members together in driving engagement, when the speed of rotation of the driving member tends to exceed that of the driven member and for uncoupling the same when the speed of the driving member falls below that of the driven member, whereby the compressor set acts as a brake limiting the speed of the output turbine when it tends to exceed the said speed ratio to that of the compressor set.

2,660,034
METHOD AND APPARATUS FOR PLACING FLUENT MATERIAL
Maxwell F. Kemper, Los Angeles, Calif.
Application May 21, 1947, Serial No. 749,402
28 Claims. (Cl. 61—42)

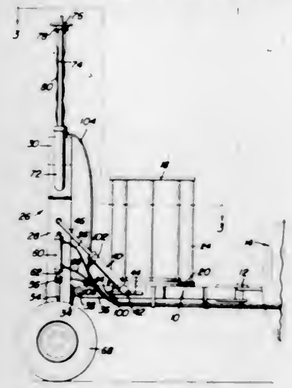
1. The method of forming the top and side walls of a small bore tunnel having a form for defining the inner surfaces of said walls, as well as a material discharge line extending longitudinally above the form for conveying the wall material to the desired location in the form, which comprises: advancing a train of loaded mobile containers to the working region in the

tunnel; connecting the most forward container to said discharge line; discharging the material from said container; disconnecting said container



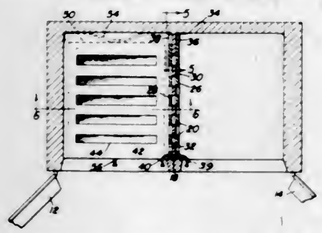
from the discharge line; advancing said container along said line; and connecting the succeeding container of the train to said discharge line.

2,660,035
FENCE POST DRIVER AND DIGGER
James F. Zeiser, Lafayette, Ind.
Application April 7, 1950, Serial No. 154,549
10 Claims. (Cl. 61—73)



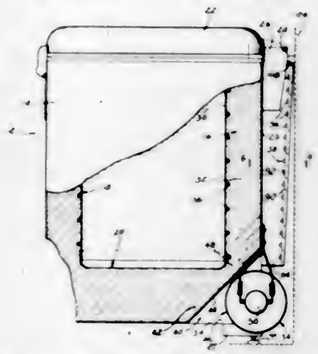
1. A fence post driver and digger comprising a frame, a support pivoted on said frame for vertical swinging movement, a pair of side members slidably carried by the support, wheels supported on said side members, means adjustably connecting said side members to the support for raising and lowering the side members and the wheels, a guide carried by the support, a vertically slidable holder on said support and including a rotatable spiral screw, means in the guide for imparting rotation to the screw during raising or lowering of the holder, means adjustably securing the support to the frame for retaining the holder in a selected rotated position, and a ground penetrating member detachably secured to and rotatable with said screw.

2,660,036
REFRIGERATOR HAVING DOOR OPERATED VALVE MEANS
Leonard O. Moore, Holdenville, Okla.
Application September 1, 1950, Serial No. 182,815
1 Claim. (Cl. 62—89)



In a mechanical refrigerator of the type including a cabinet comprising a back wall, said cabinet having storage compartments therein, hinged access doors and a freezing unit, partitions separating the unit from the storage compartments, one of said partitions including a stationary vertical panel having elongated openings therein for the passage of air, pairs of horizontal guides on the upper and lower portions of said panel, vertical shutter plates slidable in said guides and having openings therein for registry with the first named openings, bowed springs, mounted on the inner ends of the shutter plates and engaged with the back wall of the cabinet for yieldingly urging said plates toward closed position, and arms on the shutter plates engageable by the doors for opening said shutter plates when said doors are closed.

2,660,037
REFRIGERATOR CONSTRUCTION
La Mar S. Cooper, Cedar Rapids, Iowa, assignor to Amana Refrigeration, Inc., Cedar Rapids, Iowa, a corporation of Iowa
Application November 13, 1950, Serial No. 195,231
2 Claims. (Cl. 62—116)



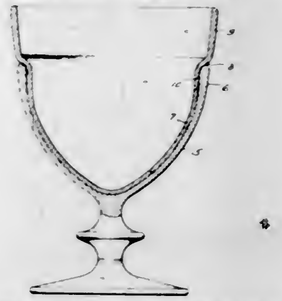
2. In a refrigerator, a cabinet having side walls and a bottom wall, and an interior compartment to be cooled, said refrigerator also having refrigerating mechanism for cooling said compartment including a motor-compressor unit, and a condenser, said condenser being mounted on one of said side walls in generally vertically disposed position and in laterally spaced relation with respect to the wall, said one side wall having a cavity in its outer surface adjacent the bottom thereof, said unit being mounted with a substantial portion thereon disposed in said cavity, a mounting member secured to each end of said unit, each mounting means having a pair of laterally spaced, upwardly extending elements, a pair of upper mounting members secured to said one wall above said cavity and extending downwardly below the upper limit of the cavity, each upper mounting member having a pair of laterally spaced elements in substantial register with the respective elements of the mounting members on the unit, one element of each mounting member extending into said cavity, each of said elements having vertically spaced notches in each of opposite edges thereof, the notches of each element forming disconnected segments of a helix, and a helical spring threaded in the notches of each of the registered elements, whereby said springs yieldably support said unit in such position that a substantial portion thereof is disposed in said cavity and the unit is within the limits of the innermost surface of the cavity and the outermost surface of the condenser.

2,660,038
GASEOUS HEAT EXCHANGE
Leonard Parker Pool, Allentown, Pa., assignor to Air Products, Incorporated, a corporation of Michigan
Application March 3, 1950, Serial No. 147,419
21 Claims. (Cl. 62—123)



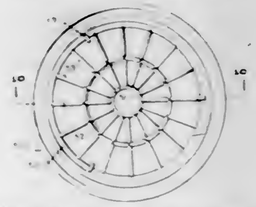
1. A heat interchanger comprising a warm section having a warm end and a cold end, a cold section having a first end and a second end, a first and second passageway through the warm section, a first and second passageway through the cold section, a first set of conduit means for conducting a cooling fluid to the first passageway of the cold section at the first end thereof, from the first passageway of the cold section at the second end thereof to the first passageway of the warm section at the cold end thereof, and from the first passageway of the warm section at the warm end thereof, a second set of conduit means for conducting a cooling fluid to the second passageway of the cold section at the second end thereof, from the second passageway of the cold section at the first end thereof to the second passageway of the warm section at the cold end thereof, and from the second passageway of the warm section at the warm end thereof, first switching valve means associated with both first and second sets of conduit means for switching the flow of the cooling fluid from the first set of conduit means to the second set of conduit means, a third set of conduit means for conducting a fluid to be cooled to the second passageway of the warm section at the warm end thereof from the second passageway of the warm section at the cold end thereof to the second passageway of the cold section at the second end thereof and from the second passageway of the cold section at the first end thereof, a fourth set of conduit means for conducting the fluid to be cooled to the first passageway of the warm section at the warm end thereof from the first passageway of the warm section at the cold end thereof to the first passageway of the cold section at the first end thereof, and from the first passageway of the cold section at the second end thereof, second switching valve means associated with both third and fourth sets of conduit means for switching the flow of the fluid to be cooled from the third set of conduit means to the fourth set of conduit means, and means for operating the first and second switching valve means simultaneously so that the cooling fluid and the fluid to be cooled flow through both of the first and second passageways respectively and then through both of the second and first passageways respectively.

2,660,039
DRINKING GLASS CONSTRUCTION
Carl D. Newell, Clarksburg, W. Va.
Application October 11, 1948, Serial No. 53,864
1 Claim. (Cl. 65—13)



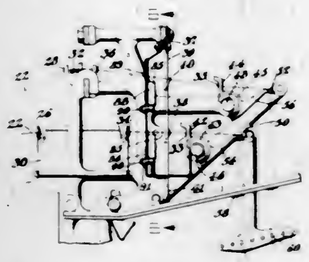
A drinking tumbler comprising a hollow body constructed of opaque pottery material, the wall of said body gradually increasing in thickness towards the upper edge thereof, providing a substantially thick wall portion adjacent to the upper edge of said body, a lining constructed of transparent glass fitted within the hollow body having a lower reduced section conforming to the contour of the body in contact with the entire inner surface of the body, an annular shoulder formed between the lower reduced section and upper edge of the lining, the thick wall portion of the body resting against said shoulder bracing the drinking tumbler, and said lining being cemented within said hollow body.

2,660,040
SAUCER GRID
Martin F. Babski, Pittsburgh, Pa.
Application February 9, 1951, Serial No. 210,239
4 Claims. (Cl. 65—53)



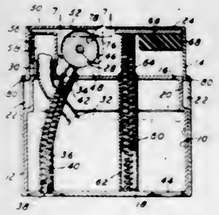
1. In combination with a saucer having a substantially circular rim and an inner concave surface of spheroidal shape within said rim, a cup supporting grid removably mounted in said saucer and comprising an open work structure including a circular outer ring disposed against the inner surface of said saucer and spaced from said saucer rim, and ribs disposed within said ring and integrally joined to said ring and to each other, said ribs all having their surfaces remote from the inner surface of said saucer disposed substantially in a common plane parallel to the surface portion of said ring nearest the rim of said saucer and at least some of said ribs having their inner surfaces at least in part convexly congruent to the inner concave surface of said saucer and each rib having a length dimension parallel to said plane, a width dimension perpendicular to said plane and less than said length dimension and a thickness dimension parallel to said plane and perpendicular to said length dimension and less than said width dimension.

2,660,041
THREAD TENSION ARRANGEMENT FOR KNITTING MACHINES
Paul Schmidt, Wytheville, Va., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania
Application December 22, 1950, Serial No. 202,219
7 Claims. (Cl. 66—146)



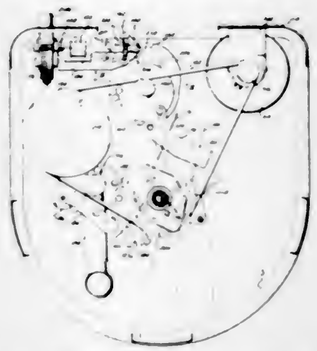
1. In a full-fashioned knitting machine, means for supplying yarn, a snapper arm through an aperture in which the yarn passes to a yarn carrier, a tensioning ring through which the yarn passes on its way to the snapper aperture and a tensioning device on the yarn supply side of the said ring and which is out of contact with the yarn when the yarn is under maximum tension but which contacts the yarn when the yarn tension slackens to cause the ring to maintain a tension on the yarn at the delivery side of the yarn carrier.

2,660,042
LIGHTER
Willard F. Wagner, Detroit, Mich., assignor of one-half to Charles W. Glenn, Detroit, Mich.
Application August 2, 1950, Serial No. 177,293
5 Claims. (Cl. 67—7.1)



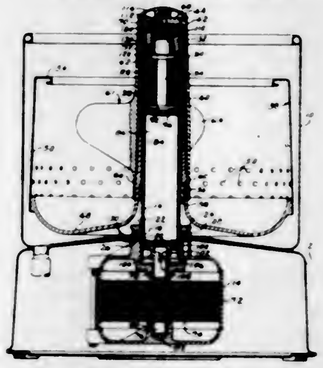
2. In a lighter, a hollow body having two relatively flat oppositely disposed side walls, a pair of flat-sided posts secured to and rising upwardly from the upper end wall of the body in opposed parallel spaced apart relation to one another, said posts being displaced inwardly from and extending parallel to said side walls of the body and each provided with an aperture aligning with the other, an endwise removable pin bridging the space between the posts and extending through the apertures thereof and having its extremities projecting therebeyond, but not past the planes of said side walls of the body, a friction wheel journaled on said pin between the posts, a depressible cover member of inverted cup-shaped formation having its side walls slidingly telescopingly embracing the upper portion of the body and being movable from a raised position where it forms a hood enclosing the posts and the friction wheel to a depressed position below the level of said wheel journaling pin, the upper transverse wall of the cover member which constitutes the base of its cup-shaped formation having an opening for that part of its extent overlying the wheel and the posts and being of a size to admit the same when the cover member is depressed, a cap member for closing the opening of the cover member, said cap member having a pair of opposed depending side wall portions straddling said posts and interposed between the same and the side walls of the cover member, said depending side walls of the cap member being pivotally mounted upon the projecting extremities of the wheel journaling pin, the side walls of the cover member normally overlying the extremities of the wheel journaling pin but when fully depressed exposing the extremities of the wheel journaling pin for endwise removal and assembly.

2,660,043
AUTOMATIC LAUNDERING MACHINE AND PUMP DRIVE THEREFOR
Peter Eduard Geldhof, St. Joseph, Mich., assignor to Whirlpool Corporation, a corporation of New York
Application April 30, 1948, Serial No. 24,184
2 Claims. (Cl. 68—23)



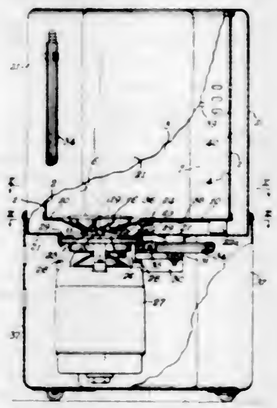
1. In a drive and control mechanism for an automatic laundering machine having a tub, a clothes containing basket journaled therein, an agitator within said basket and journaled for oscillatable movement with respect thereto, an oscillating drive mechanism selectively connectable with said agitator to oscillatably drive said agitator including a drive shaft for said drive mechanism eccentric of the axis of rotation of said basket and having a pulley thereon, another pulley coaxial with the axis of rotation of said basket, a shaft having driving engagement with said basket and having said pulley freely mounted thereon and selectively connectable with said shaft to rotatably drive said basket, two spaced pumps, one being connected with said tub to withdraw fluid therefrom and the other being connected to return fluid to said tub, each of said pumps having a drive pulley thereon, a motor and a single drive connection from said motor to said oscillating drive mechanism for said agitator, said basket and said pumps comprising a belt driven by said motor and having driving connection with said first two pulleys at spaced apart points, a separate run of said belt traveling in alignment with and adjacent each of said pump pulleys, but normally being free from said pulleys, a movable idler pulley associated with each of said pump pulleys on the opposite side of the belt from said pump pulleys, a separate pivotally movable arm supporting each of said idler pulleys, toggle links connected with said pulleys, and a separate rectilinearly movable member operatively connected with each toggle link to independently move said idler pulleys to take up tension on the associated run of the belt and selectively engage the belt with an associated pump drive pulley, to drive the associated pump.

2,660,044
WASHING MACHINE WITH DIRECT MOTOR DRIVE
Earl C. Williams, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application January 16, 1951, Serial No. 206,195
10 Claims. (Cl. 68—23)



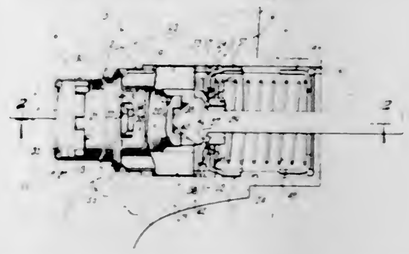
1. In combination, in a washing machine, a centrifuging tub, an oscillatable agitator concentrically arranged therein and rotatable relative thereto, a reversible induction motor, a resilient coupling having its ends connected between said motor and tub, and means drivably connecting said agitator to said coupling at a point intermediate the ends thereof.

2,660,045
WASHING MACHINE
Walter Bretter, Johannesburg, Transvaal, Union of South Africa
Application August 12, 1952, Serial No. 303,943
Claims priority, application Union of South Africa August 22, 1951
3 Claims. (Cl. 68—53)



1. A washing machine comprising an inner tank for receiving washing liquid and the articles to be washed, said inner tank having the base thereof apertured around a point offset from each of two horizontal axes which intersect at right angles and pass through the centre of said bottom and having four sides arranged in relation to said point so that they lie tangential to a continuous curve traced from and around said point and steadily increasing its distance from said point; deflecting members interposed between adjacent sides of the inner tank; a centrifugal impeller fitting co-axially within the apertured portion of the base of the inner tank; a prime mover for imparting rotation to the impeller; an outer tank surrounding the inner tank and maintained in spaced relationship therefrom; port means in the wall of the inner tank through which washing liquid may pass to the space between the inner and outer tanks to be drawn axially into the impeller and discharged radially therefrom into the interior of the inner tank to provide a continuous circulation.

2,660,046
DOOR LATCH OPERATING MECHANISM
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application November 16, 1949, Serial No. 127,596
23 Claims. (Cl. 70—344)

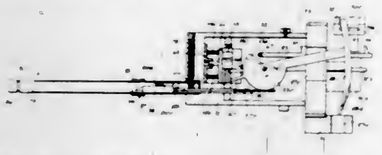


1. Latch operating mechanism of the character described, comprising: actuating mechanism including a rotatable member having an axial slot in its rear end; a shaft having one end received loosely in said slot; a rearwardly facing shoulder on said end of the shaft; a shaft retaining washer loosely encircling the rear end of said rotatable member; cooperating abutments on said washer and the rear of the rotatable member for holding the washer against rearward displacement from the rotatable member; a lug on the washer extending inwardly therefrom into said slot behind the shoulder on the shaft so as to constrain the washer to rotate with the rotatable member and prevent axial separation on the shaft therefrom; an enlarged head on the front end of said rotatable member; a sleeve in which the rotatable member is rotatably journalled, said sleeve being confined between said head and the washer on the rotatable member; and a rotation transmitting connection between said rotatable member and the shaft inside said slot.

2,660,047
PERMUTATION LOCK AND KEY
Pedro del Pozo Villalba, Madrid, Spain
Application June 28, 1951, Serial No. 234,010
Claims priority, application Spain July 19, 1950
19 Claims. (Cl. 70—382)

1. In a lock, in combination, a plurality of members including at least one movable member, a plurality of independently displaceable de-

tent elements on said movable member, each of said detent elements having a plurality of positions including a zero position and engaging at least one of said members, other than said movable member, in any except said zero position, thereby preventing displacement of said movable member, said movable member having an opening for the introduction of a key, a plurality of toothed control members positioned in the path of a key introduced into said opening for displacement by respective toothed elements of said key, each of said control members being



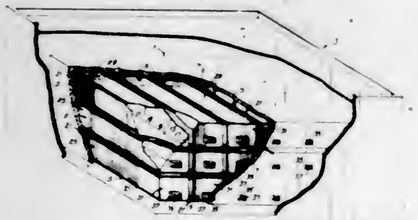
coupled to a respective one of said detent elements to determine the position thereof, a plurality of independently displaceable presetting elements each operatively coupled with a respective one of said control members, means including said presetting elements yieldably tending to maintain said control members in a predetermined starting position, and mechanism for varying said starting position, said mechanism including releasable locking means adjustably fixing the position occupied by each of said presetting elements in at least said zero position of the corresponding one of said detent elements.

2,660,048

TANK CONSTRUCTION

Oscar Janssen, St. Louis, Mo., assignor to Oscar Janssen Stainless Steel Tanks, Inc., St. Louis, Mo., a corporation of Missouri

Application July 10, 1948, Serial No. 38,076
2 Claims. (Cl. 72—14)



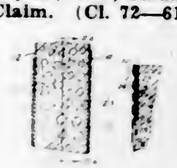
1. A tank having a lining consisting of an elongate vessel of generally rectangular cross section having flat bottom, side, top and end walls, each of said bottom, side and top walls consisting of a plurality of panels extending transversely with respect to the length of the vessel, each panel comprising an interior flat sheet metal plate extending the width of its respective wall and a fraction of the length of its respective wall and an exterior corrugated sheet metal plate welded to the flat plate with its corrugations extending transversely with respect to the length of the vessel, the area of the corrugated plate projected upon the flat plate being substantially coextensive with the area of the flat plate so that the corrugated plate reinforces the flat plate substantially throughout the area of the flat plate, the flat plates of adjacent panels in each of said bottom, side and top walls being welded together by continuous fluid-tight transverse seams, the bottom, side and top walls also being welded together by continuous, fluid-tight corner seams extending longitudinally the full length of the vessel, the corrugations of the corrugated plating being of substantial width and depth and their length being slightly less than the width of the respective walls of the vessel so that the ends of the corrugations are spaced from the corner seams, and the corrugations being open at their said ends adjacent said corner seams, each of the said end walls also consisting of a plurality of panels, each of which comprises an interior flat sheet metal plate and an exterior corrugated sheet metal plate welded to the flat plate, with the area of the corrugated plate projected upon the flat plate substantially coextensive with the area of the flat plate and having the corrugations open at its ends, the flat plates of adjacent end wall panels being welded together by continuous fluid-tight seams, and the end walls being welded at their edges to the bottom, side and top walls by continuous fluid-tight seams, and a shell of concrete embedding the vessel adapted to withstand the load due to the pressure of the contents of the tank, the concrete between the corrugations of the corrugated plates forming stiffening and keying ribs and concrete entering the corrugations through their open ends keying the walls of the vessel to the shell.

2,660,049

PRESTRESSED CONCRETE STRUCTURAL COMPRESSION MEMBER

George A. Maney, Skokie, Ill.; Mabelle D. Maney, executrix of said George A. Maney, deceased, assignor to Mabelle D. Maney, Skokie, Ill.

Application May 29, 1947, Serial No. 751,187
1 Claim. (Cl. 72—61)



A prestressed concrete structural compression member comprising an expansible cylindrical metal sleeve, a flat metal helical tensioned band having the turns thereof closely spaced with respect to each other surrounding said sleeve, the ends of said band being turned over the ends of said sleeve and extending inwardly therealong and secured thereto, and a compressed concrete core within said sleeve, said band being tensioned by the compressed concrete core hardening under pressure and said ends of said band being secured to the sleeve by the compressed concrete core.

2,660,050

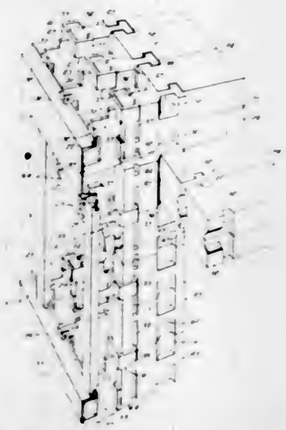
SECTIONALLY SUPPORTED FURNACE WALL

Louis H. Hosbein, Glencoe, Ill., and Louis Ellman, Pittsburgh, Pa., assignors to M. H. Detrick Company, Chicago, Ill., a corporation of Delaware

Application November 24, 1947, Serial No. 787,740
5 Claims. (Cl. 72—101)

1. A sectionally supported furnace wall, comprising a metallic framework, vertically spaced horizontal rows of horizontally spaced metallic brackets mounted on said framework, said metallic brackets having horizontal shelf portions thereon, horizontally spaced horizontally extending refractory spacing brackets mounted on said shelf portions, said refractory spacing brackets being interengaged near the outer ends thereof with the inner ends of said metallic brackets, horizontally extending wall forming refractories

interengaged adjacent their outer ends with and supported by said refractory spacing brackets near the inner ends thereof and extending inwardly therefrom, the interengaging means on said wall forming refractories and refractory brackets comprising lateral recesses and projections, a pair of horizontally adjacent wall forming refractories being supported by each of said refractory spacing brackets, vertical rows of metallic retainer members mounted on said framework between said vertically spaced rows of metallic brackets, all portions of said metallic brackets and of said retainer members being spaced from said wall forming refractories, said vertical rows of retainer members being spaced much further apart horizontally than said brackets and aligning vertically with certain ones thereof, refrac-



tory spacing brackets interengaged near the outer ends thereof with the inner ends of said retainer members, said last mentioned refractory spacing brackets being vertically adjacent and vertically aligned with certain of said first mentioned refractory brackets, wall forming refractories interengaged adjacent their outer ends with said last mentioned refractory spacing brackets near the inner ends thereof and extending inwardly therefrom, a plurality of wall forming refractories mounted between refractories interengaged with said last mentioned refractory spacing brackets, all of said wall forming refractories being duplicates, and heat insulating material extending from the outer ends of said wall forming refractories to said metallic framework and between all said metallic brackets and the outer face of said wall.

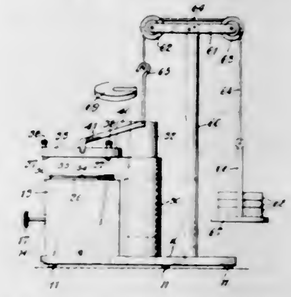
2,660,051

DEVICE FOR TESTING HOT FLOW

Arthur P. Dowling, Rock Island, Ill., assignor to Rock Island Millwork Company, Rock Island, Ill., a corporation of Illinois

Application May 15, 1951, Serial No. 226,436
4 Claims. (Cl. 73—15.6)

1. A testing device comprising two relatively movable members providing parallel opposed surfaces normal to which the members are relatively movable, one of said members being transparent and positioned without obstruction to visual observation therethrough whereby to permit observations of a solid body being compressed between said members, means to heat one of said members whereby to heat said body, and means to urge said members together with constant pressure on said body, whereby an operator may observe through the transparent member the action



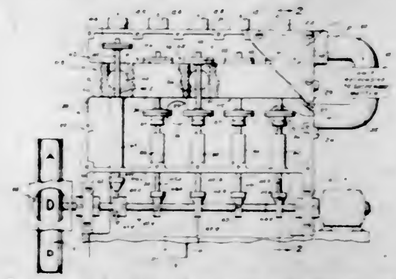
of said body to said heat and mechanical pressure.

2,660,052

APPARATUS FOR DETECTING SUSPENDED MATTER IN FLUIDS

Arthur W. Uhl, Inwood, N. Y., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey

Application May 18, 1950, Serial No. 162,643
8 Claims. (Cl. 73—28)



1. In apparatus for detecting suspended matter in fluids, the combination of a casing providing a chamber, a valve block in said chamber partitioning the same into first and second chamber sections; exhaust means including an opening in fluid flow communicating with said second chamber section; means responsive to the presence of suspended matter in fluid having an inlet in fluid flow communication with said first chamber section and having an outlet in fluid flow communication with said exhaust means opening through said second chamber section; a plurality of means for supplying sample fluid in which suspended matter is to be detected; a plurality of sample fluid flow controlling valves each including an inlet in fluid flow communication with one of said sample fluid supplying means respectively, a first outlet in fluid flow communication with the inlet of said responsive means through said first chamber section, a second outlet in fluid flow communication with said exhaust means opening through said second chamber section, a valve member normally closing said first outlet, a valve member normally unclosing said second outlet, and means for operating said valve members to effect unclosing of said first outlet and simultaneous closing of said second outlet; means for supplying purging fluid; a purging fluid flow controlling valve including an inlet in fluid flow communication with said purging fluid supplying means, an outlet in fluid flow communication with the inlet of said responsive means through said first chamber section, a valve

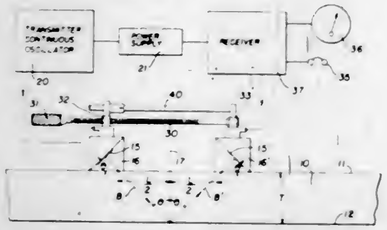
member normally closing said last mentioned outlet, and means for operating said last mentioned valve member to unclose said last mentioned outlet; and mechanism for controlling all of said valve member operating means to effect selective and successive unclosing of said first outlet of said sample fluid flow controlling valves and to effect unclosing of said outlet of said purging fluid flow controlling valve after each unclosing of one of said first outlets of said sample fluid flow controlling valves.

2,660,053
FLEXIBLE SEAM TESTING DEVICE
Howard A. Buehner, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application February 2, 1950, Serial No. 141,926
3 Claims. (Cl. 73—40)



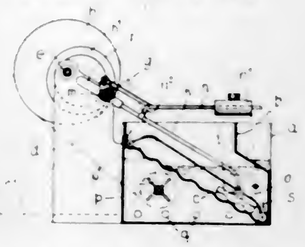
1. In a seam testing device of the type wherein a partial vacuum is created over the seam to be tested and the presence of leaks in said seam is determined by observing the activity of a substance previously applied thereto, a highly flexible open-bottomed elongated casing adapted to be applied either to a flat or a curved surface and shaped to isolate a portion of the seam when placed in engagement with the seamed surface being examined, a highly flexible transparent window member in said casing, and means to create a partial vacuum within said casing during the testing operation.

2,660,054
ULTRASONIC THICKNESS MEASURING DEVICE
Frank E. Pringle, Jr., La Grange, Ill., assignor to Sperry Products, Inc., Danbury, Conn., a corporation of New York
Application December 7, 1951, Serial No. 260,465
3 Claims. (Cl. 73—67)



1. A device for determining thickness of an object having opposed surfaces, comprising electro-acoustic transducer means cooperating with one surface of said object for transmitting ultrasonic vibrations into the object through said surface at an angle to normal, a source of electric oscillations of ultrasonic frequency connected to said transducer, electro-acoustic transducer means cooperating with said first surface for receiving the vibrations after reflection from the opposite surface of the object, means connected to said receiving means and responsive to the energy received by said receiving means, means for moving said receiving means relative to said transmitting means along said first surface to locate the point of maximum energy reception, said distance between said transmitting means and said receiving means at said point of maximum energy reception being a function of the thickness of the object, and means for indicating the distance between said transmitting and said receiving means.

2,660,055
APPARATUS FOR TESTING THE FASTNESS OF DYEINGS ON WETTED TEXTILES
Willy Thommen, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss company
Application April 6, 1948, Serial No. 19,284
Claims priority, application Switzerland April 8, 1947
5 Claims. (Cl. 73—159)

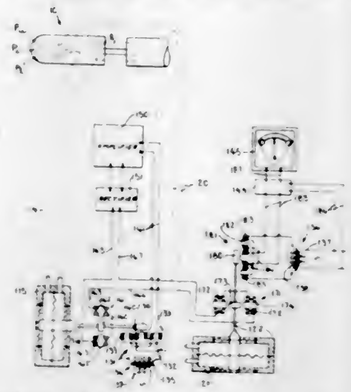


1. Apparatus for examining the fastness properties of dyeings on textiles under wet conditions, comprising a bath adapted to contain a heatable liquid, at least one test-solution holder fitted into said bath and adapted to be immersed in said liquid, the bottom of each holder being provided with a stationary inclined internal friction surface, a member in each holder provided with a friction surface in reciprocable movable contact under regulable pressure with said first-named friction surface, a pressure applicator on said member for applying said pressure thereto, and actuating means for reciprocating said reciprocable member comprising an actuating shaft, a slotted support through the slot of which said actuating shaft extends, said slot being inclined in a direction substantially para lel to said inclined friction surface, a coupling interconnecting said actuating shaft and reciprocable member, a crank mechanism for reciprocating said actuating shaft, and means for securing between said friction surfaces a dyed sample to be tested, whereby said dyed textile sample thus situated between the stationary and movable friction surfaces and immersed in the test-solution can be submitted to a process of rubbing between such surfaces and under the said regulable pressure.

2,660,056
ANGLE OF ATTACK SENSING DEVICE
Oscar Hugo Schuck and Ross C. Alderson, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 3, 1949, Serial No. 74,426
9 Claims. (Cl. 73—180)

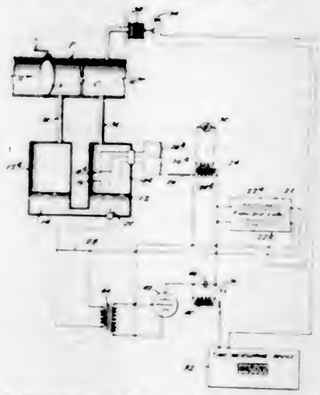
7. Apparatus for measuring a condition determined by a pressure differential and a second variable condition, comprising, a first electrical signal generating means including a pair of relatively movable parts, means operated by said pressure differential and connected to one of said parts of said first electrical signal generating means for controlling the output of said first signal generating means in proportion to said pressure differential, a second electrical signal generating means including a pair of relatively

movable parts, means connected to one of said parts of said second electrical signal generating means and responsive to said second condition for controlling the output of said second signal generating means in proportion to the magnitude of said second condition, means electrically connected to said second signal gener-



ating means and energized therefrom being mounted in part on said pressure differential operated means for modifying non-linearly the operation of said pressure differential operated means, and means connected to and energized by said first signal generating means to indicate a measure of said first named condition.

2,660,057
FLOW MEASURING DEVICE
Robert A. Ackley, San Diego, Calif., assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois
Application November 20, 1948, Serial No. 61,257
8 Claims. (Cl. 73—198)



8. A mechanism for use with a manometer having a conducting fluid and a plurality of vertically spaced electrodes operative to contact said fluid as the same moves up and down, said mechanism comprising a time measuring device, elements controlled by said electrodes in response to the fluid level falling below a predetermined minimum level and effective only when the fluid is below said level to energize said time measuring device, and a flow indicating device responsive to time and controlled by contact of said electrodes with said fluid only when the fluid level is above said predetermined minimum level.

2,660,058
LIQUID LEVEL INDICATOR
Joseph B. Vogt, Grosse Pointe Park, Mich.
Application March 10, 1952, Serial No. 275,778
11 Claims. (Cl. 73—290)

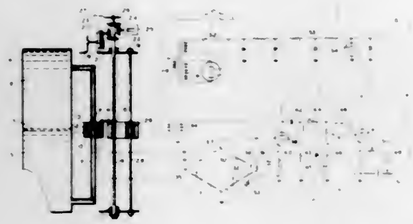


9. A liquid level indicator for a container, said indicator comprising a tube adapted to be mounted on said container in fixed relation thereto and extend into said container to a point below the lowest liquid level to be indicated, a piston rod extending from the outer end of said tube and movable longitudinally thereof, a piston slidably fitting in said tube mounted on said rod and movable thereby to and from a position below said lowest liquid level, said tube having an open upper end and an aperture disposed below said lowest liquid level to be indicated and above said piston when the latter is in said position, indicia means on said piston rod disposed at predetermined levels of the liquid when said piston is in said position whereby the level of the liquid in said container may be readily determined by drawing the piston rod upwardly in said tube to a point at which the intersection of the surface of the liquid in the tube with said means may be observed, and an outer sleeve surrounding the upper portion of said tube and having an internal diameter greater than the external diameter of said tube, said sleeve being adapted to receive any of said liquid which may flow from the upper end of said tube and return said liquid to said container, said tube and said sleeve being inclined relative to the vertical and said sleeve having an upwardly extending portion at its lower side providing a trough adapted to catch any of said liquid which may flow from the upper end of said tube and direct it downwardly through said sleeve, said upwardly extending portion terminating in an inwardly turned guide arm apertured to slidably receive said rod and maintain said rod in coaxial relation with said tube.

2,660,059
LIQUID LEVEL MEASURING APPARATUS
Maurice R. Dean and Deslonde R. de Boisblanc, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application January 4, 1950, Serial No. 136,738
15 Claims. (Cl. 73—313)

1. An apparatus for determining the location of an interface between two bodies of fluids comprising, in combination, a vertical non-magnetic

conduit having its lower end connected with the lower one of said bodies of fluid and its upper end connected with the upper one of said bodies of fluid so that an interface will be formed in said conduit; a hollow spherical float situated in said conduit, said float being formed of a magnetizable material in such a fashion that its displacement will cause it to float at the said interface; an inductance coil surrounding said conduit, a magnetizable metal casing enclosing said coil so as to separate it from said conduit, said



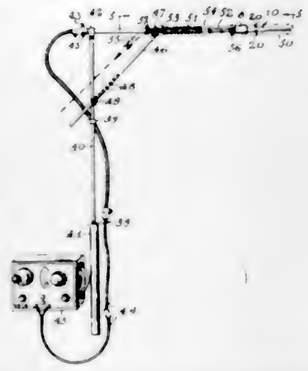
casing being formed so as to have the ends of the wall of said casing adjacent said conduit extending axially into each end of the coil so as to form an annular air gap in said casing adjacent said conduit, said air gap having a vertical depth equal to the diameter of said float; an impedance bridge connected to said coil in such a manner that said coil forms a variable impedance in said bridge and a micrometer screw means operatively connected to said casing to raise and lower said coil and said casing along said conduit.

2,660,060
MILK BOTTLE THERMOMETER SUPPORT
Donald C. Shelton, San Diego, Calif.
Application April 5, 1949, Serial No. 85,544
2 Claims. (Cl. 73—343)



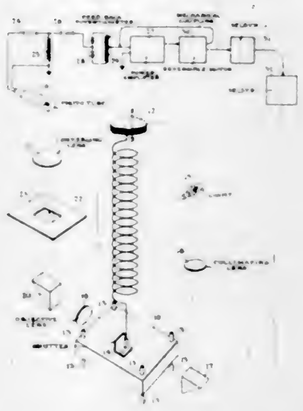
1. In a milk bottle thermometer support of the class described, an infant feeding milk bottle, a thermometer body support engaging the neck of said bottle and having an opening therethrough, a thermometer extending through the opening in said thermometer body support and downwardly into said milk bottle, a base support for said thermometer, said base support having a portion fitted over the end of said thermometer and frictionally gripping the same, said support having passages therein communicating with the end of said thermometer and the interior of said bottle.

2,660,061
IMMERSION TYPE THERMOCOUPLE TEMPERATURE MEASURING DEVICE
Alfred H. Lewis, Montreal, Quebec, Canada, assignor to Dominion Engineering Works Limited, Montreal, Quebec, Canada
Application March 5, 1949, Serial No. 79,747
9 Claims. (Cl. 73—359)



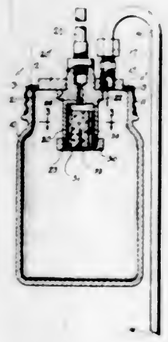
1. A portable thermocouple comprising a tubular casing, a graphite tip carried by one end of said tubular casing, said tip being bored from its inner end substantially throughout its length and closed at its outer end, a tube having conducting wires extending therethrough arranged in said casing to extend within the bore of said tip in spaced relation to the inner end and side walls of the bore of said tip, and means carried by said tip for centering said tube within the tip in spaced relation thereto, said means being radially disposed about said tube for adjustable engagement therewith.

2,660,062
GRAVIMETER APPARATUS
Eugene W. Frowe, Houston, Tex., assignor to Robert H. Ray Co., Houston, Tex., a partnership consisting of Robert H. Ray and Jack C. Pollard
Application March 17, 1950, Serial No. 150,270
5 Claims. (Cl. 73—382)



1. Geophysical prospecting apparatus comprising in combination: an inner casing; a mass suspended on a spring within said casing; a photoelectric system, including a light source and light sensitive cell within said casing, responding to changes in the position of said mass; an outer casing; means including said photoelectric system for deriving a voltage proportional to vertical displacement of said apparatus caused by disturbances of the earth's surface; means including a plurality of jacks attached to said outer casing and supporting said inner casing therein in adjustable relation thereto; means including an electromechanical servo-system connected to operate said jacks in unison to cause compensating vertical displacements of said inner casing, and electrical amplifying means connected to operate said servo-system in accordance with said derived voltage.

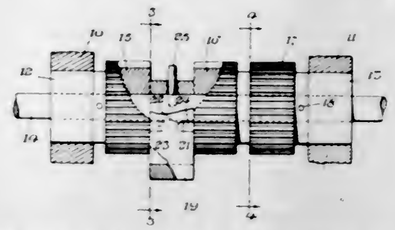
2,660,063
SAMPLE TAKING DEVICE
Percy C. Sawers, Seattle, Wash.
Application November 3, 1952, Serial No. 318,370
3 Claims. (Cl. 73—425.4)



1. A sample taking device of the character described comprising a closed sample holding receptacle, fitted with a removable upper end closure plate, an open filling tube for the receptacle extended vertically at the outside thereof and having its upper end portion opening into the receptacle through the said upper end closure plate, and terminating at its lower end at a level that is slightly below the level of the lower end wall of the receptacle, a valve housing fixed to the closure plate within the upper end of the receptacle; said housing having an inlet at its lower end and an outlet at its upper end, an air outlet tube of substantial length extended upwardly from the receptacle and connected at its lower end with said plate in communication with the outlet of said valve housing, and a float in the valve housing adapted to be lifted by liquid rising in the housing to close against the said outlet.

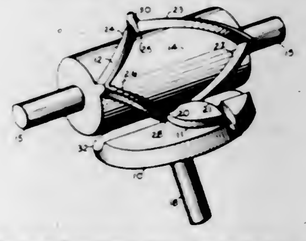
2,660,064
MECHANICAL DIFFERENTIAL
George R. Stibitz, Burlington, Vt.
Application August 20, 1951, Serial No. 242,661
1 Claim. (Cl. 74—1)

A differential mechanism as disclosed, comprising a rotatable output shaft, a pair of rotatable input members journaled on said shaft, a sleeve lying between said input members having radial slots on opposite faces thereof, a pin mounted on each input member and engaging said slots respectively, and a pin intersecting said sleeve and secured to said shaft, whereby said



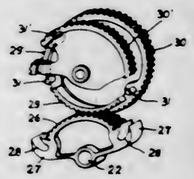
sleeve may slide radially with respect to said shaft.

2,660,065
MECHANISM FOR CHANGING ROTARY MOTION TO OSCILLATING MOTION
Earl C. Williams, Syracuse, N. Y.
Application October 27, 1948, Serial No. 56,884
12 Claims. (Cl. 74—25)



1. In a mechanism for producing oscillating motion, the combination with a housing member of a driving member having logistic engaging means, said logistic engaging means including right and left hand logarithmic engagement members; and a driven member having a central axis substantially perpendicular to the axis of rotation of said driving member and having helical engaging means adapted to operably engage said logistic engaging means.

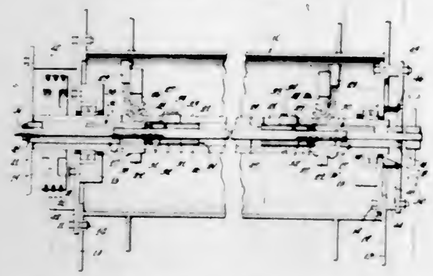
2,660,066
RECIPROCATING CARRIAGE DRIVE
Emil Kolland, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany, a corporation of Germany
Application May 12, 1951, Serial No. 225,965
Claims priority, application Germany May 17, 1950
2 Claims. (Cl. 74—27)



1. In a printing press having a reciprocating type bed, driving means for imparting said reciprocating motion comprising in combination two oppositely rotating main gears, means for mounting said gears adjacent each other on a common shaft, a driving gear segment on the inner face of each said main gear, a single driven segment adjacent said main gears for meshing engagement alternately with each said driving segments

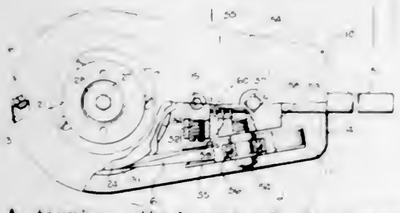
on said gears, projections at each end of said driven segment defining a cycloidal recess at each end thereof, rollers on said gears adjacent said driving segments for successive engagement with said cycloidal recesses, the thickness of said driven segment and said projections thereon effecting simultaneous engagement in one of said recesses with one of said rollers on each of said gears.

2,660,067
VIBRATION DEVICE
Robert L. Glover, Poland, Ohio
Application August 2, 1949, Serial No. 108,190
10 Claims. (Cl. 74—87)



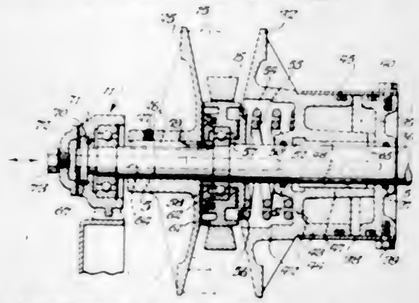
1. A vibration device, comprising: a rotatable shaft; collar means rotatable with said shaft; weight means movably carried by said collar means for movement toward and away from the axis of said shaft, thereby providing for adjustment of the amplitude of vibration; screw means rotatable with respect to said shaft; nut means threaded on said screw means and movable axially with respect to the axis of said shaft upon rotation of said screw means, said nut means having connection with said weight means so constructed and arranged whereby said weight means is adjusted with respect to the axis of said shaft in accordance with the rotation of said screw means.

2,660,068
FORWARD AND REVERSE BELT DRIVE FOR TAPPING ATTACHMENTS
Melvin H. Emrick, Jamaica, N. Y.
Application January 10, 1952, Serial No. 265,904
12 Claims. (Cl. 74—220)



1. A tapping attachment of the character described, comprising an openwork casing defined by top and bottom plates, means including a bearing block for joining and spacing said plates, an openwork casing fitting peripheral edges of the plates to house the mechanism within the attachment, a forward drive pulley rotatably mounted in connection with the upper plate, a reverse drive pulley rotatably mounted in connection with the bottom plate, conical clutches coupled with said pulleys, a double-faced clutch head arranged within and operatively engaging the conical clutches of said pulleys, said head including a driven spindle projecting from the bottom plate of said casing, means projecting through the upper plate of the casing for coupling the forward drive pulley with a suitable drive, a dual pulley unit adjustably mounted in one side of the casing and movable toward and from said first named pulleys, and an endless belt passing around the pulleys of said unit and said forward and reverse pulleys in controlling the drive of the reverse drive pulley from said directly operated forward drive pulley.

2,660,069
VARIABLE SPEED TRANSMISSION
Donald S. Horne and James W. MacDonald, Brantford, Ontario, Canada, assignors to Cockshutt Farm Equipment Limited, a corporation of Canada
Application February 24, 1950, Serial No. 145,966
10 Claims. (Cl. 74—230.17)

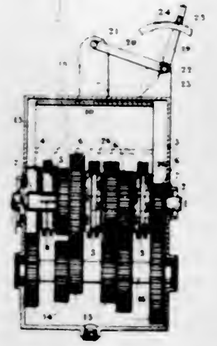


1. A pulley for a variable speed transmission and for cooperation with a V-belt, including a shaft, a pair of belt contacting members mounted on said shaft and one of which is movable lengthwise of said shaft toward and from the other belt contacting member, said movable belt contacting member having on the face thereof opposite to the other belt contacting member a hollow cylindrical extension terminating in a piston, a cylinder mounted on said shaft into which said piston fits and which is held against movement in a direction away from said pulley, means for supplying fluid under pressure to said cylinder for urging said movable belt contacting member toward the other belt contacting member, a coil spring surrounding said shaft and arranged within said cylindrical extension and reacting against said belt contacting members to oppose the action of the fluid pressure within said cylinder and to force pressure fluid out of said cylinder when the supply of fluid under pressure to said cylinder is decreased, and an idler pulley freely rotatable on said shaft and with which said belt engages when said movable belt contacting member is moved out of engagement with said belt, said idler pulley entering said hollow cylindrical extension when said movable belt contacting member is moved into engagement with said belt.

2,660,070
CHANGE-SPEED GEARBOX
Auguste Adelin Gustave Magis, Paris, France
Application December 26, 1947, Serial No. 793,952
In France April 8, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires April 8, 1963
1 Claim. (Cl. 74—337.5)

In a change-speed gear box of the type including a rotatable shaft, a number of gears mounted

in predetermined axial relationship upon and keyed to the shaft for rotation therewith, rotatably mounted shaft means disposed parallel and adjacent to the shaft, the same number of pinions freely rotatably mounted in predetermined axial relationship upon the shaft means, and a plurality of clutches axially slidably keyed to the shaft means, the improvement comprising: said gears and pinions being axially arranged in units each consisting of a gear and pinion always in meshed relationship with each other, each pinion having one side face proximate to one side face of a clutch, said proximate side faces being provided with complementary driving means, said side faces being engageable in driving relationship upon axial displacement of the clutch toward the pinion whereby torque applied to the pinion may go through the clutch to said shaft means, a yoke for each clutch, each clutch being axially movable into or out of pinion-engagement under the force of its yoke, a pair of cam followers on each yoke disposed substantially diametrically with respect to the associated clutch, the line defined by each pair of cam followers being at all times substantially parallel to the line defined by each other pair of cam followers, a pair of substantially parallel cam plates disposed one on one side of the shaft means and the other on the other side of the shaft means and each substantially perpendicular to the lines defined by said cam followers, a plurality of pairs of cam grooves in said plates one groove of each pair being in one plate and the other groove of each pair being in the other plate, each pair of cam followers being associated with a pair of cam grooves, said cam plates being constrained to translatory movement each substantially within its own plane, and cam locking structure arranged to fix said cam plates in a selected position so as to fix said yokes and the associated clutches each in a predetermined relationship with respect to said pinions.



2,660,071
TRANSMISSION CONTROL SYSTEM
Martin P. Winther, Gates Mills, Ohio, Anthony Winther, Kenosha, Wis., and Andrew S. Gill, Jr., Maple Heights, Ohio, assignors, by direct and mesne assignments, to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application September 13, 1951, Serial No. 246,496
17 Claims. (Cl. 74—472)

1. Control apparatus for a transmission having a driven shaft and a plurality of power actuated elements including a first electromagnetic clutch, a second electromagnetic clutch, a first brake, a second brake and a third brake, which transmission is driven by a prime mover having associated therewith an accelerator, a battery and an electric generator comprising an electrical network including said battery, a field coil of said generator, and a set of contacts adapted to be closed upon depression of the accelerator, said battery, coil and contacts being series-connected, power means for actuating the brakes, a first circuit including in series an armature of said generator and the coils of said first clutch for energizing said first clutch, a second circuit controlling the power means for actuating the third brake, a first switch responsive to the speed of the driven shaft to open the second circuit when said shaft speed exceeds a first pre-set value,

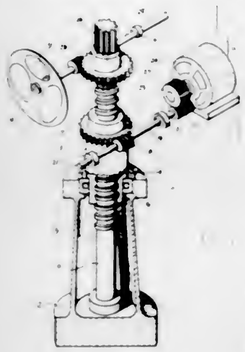


a second switch responsive to the speed of the driven shaft to complete a third circuit controlling the power means for actuating the first brake when said shaft speed exceeds a first pre-set value thereof, a third switch responsive to the speed of the driven shaft to complete a fourth circuit controlling the power means for actuating the second brake when said shaft speed exceeds a second pre-set value thereof, a fourth switch responsive to the speed of the driven shaft to open the fourth circuit when the shaft exceeds a third pre-set value thereof and means for opening the first circuit and for establishing a fifth circuit for simultaneously energizing the coils of the first and second clutches controlled by the fourth switch when the speed of the driven shaft exceeds a third pre-set value thereof.

2,660,072
DUAL CONTROL MECHANISM FOR VALVES AND THE LIKE
Vincent V. Veenschoten, Erie, Pa., assignor to Continental Foundry and Machine Company, East Chicago, Ind., a corporation of Delaware
Application September 19, 1950, Serial No. 185,588
8 Claims. (Cl. 74—625)

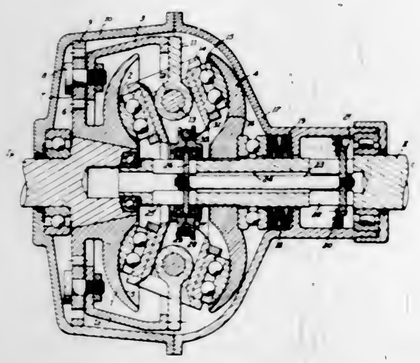
1. A dual control mechanism for valves and the like comprising an axially movable threaded shaft adapted to be secured to the device to be controlled, an axially fixed rotatable sleeve threadedly engaging the shaft, a first gear fixed to the sleeve, a first worm engaging the first gear and axially movable, a reversible electric motor for driving the worm, a second gear splined to the shaft, a second worm engaging the second gear, manual means for driving the second worm, pre-loaded spring means forcing the first worm in one axial direction, a thrust limit switch controlling the motor circuit and adapted to be closed when the worm is forced in said one axial direction, the switch being adapted to open when the worm moves in the opposite axial direction due to the resistance of the sleeve to turning

being greater than the spring means force, and the amount of pre-loading of the spring means



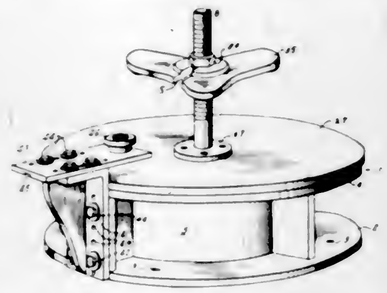
determining the thrust on the shaft at the time the sleeve ceases to turn.

2,660,073
PROGRESSIVE CHANGE-SPEED GEAR
Pierre Charles Patin, Paris, France
Application January 12, 1951, Serial No. 205,791
Claims priority, application France
January 23, 1950
8 Claims. (Cl. 74—691)



1. A progressive change speed gear comprising a primary shaft, a friction sunwheel rigid with said shaft, a planet pinion carrier coaxial therewith, means whereby said planet pinion carrier and primary sunwheel shaft revolve coaxially at speeds assuming a constant ratio with one another, a plurality of planet friction wheels revolubly carried by the said planet carrier, and forming a ring shaped system round the axis of the primary shaft, a second friction sunwheel, a secondary output shaft aligned with the primary shaft and operatively connected with said second friction sunwheel, the planet friction wheels engaging simultaneously through frictional contact both friction sunwheels along annular lines of engagement coaxial with the primary and secondary shafts and means for shifting the planet friction wheels with reference to their carrier to modify as desired the radii of said annular lines.

2,660,074
ROTARY WORK HOLDING TABLE
John Hart Wilson, Wichita Falls, Tex.
Application December 15, 1952, Serial No. 326,116
11 Claims. (Cl. 77—63)



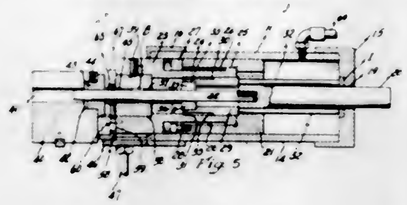
1. In a device of the character described, a base, a screw threaded bolt slidably mounted in said base and upstanding therefrom, a clamp mounted on said screw threaded bolt, a rotary work holding table having a hole formed therein sleeved over said screw threaded bolt, a ring member slidably mounted within said base and adapted to receive a bearing thereon, a bearing mounted between said ring member and said table and mounting said table for rotation with respect to said base when said table is raised there-above, resilient means for normally supporting said table a spaced distance above said base, and means for moving said screw-threaded bolt with respect to said base to exert a clamping action on a work piece positioned between said clamp and said table so as to draw said work and said table into binding engagement with said base to prevent relative rotation therebetween.

2,660,075
EXPANSIBLE DRILL
George D. Hayden, Detroit, Mich., assignor to Hayden Twist Drill Company, Detroit, Mich., a corporation of Michigan
Application December 11, 1950, Serial No. 200,281
1 Claim. (Cl. 77—67)



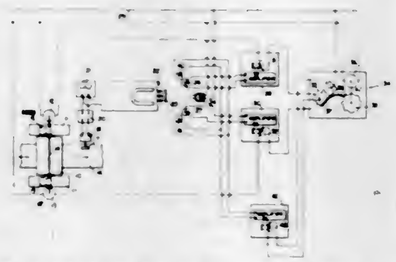
An adjustable drill capable of drilling in solid material said drill comprising a body having at one end a shank and at its other end a pair of jaws, a pair of blades in said jaws, each having a drilling point and inclined cutting edge, said blades arranged in said jaws in overlapping parallel planes and being identical but arranged as "right" and "left," means for adjusting the positions of said blades simultaneously and equally, whereby to bring said points together to provide in effect a single point or to separate said points and cutting edges, said blades being of sufficient width so that a substantial overlap is maintained in all adjusted positions, means for fixing said blades in adjusted position, and guide means for said blades, during adjustment, said guide means receiving the end thrust on said blades during a drilling operation.

2,660,076
SIZING MACHINE
Milton F. May, Saginaw, Mich.
Application October 9, 1947, Serial No. 778,845
6 Claims. (Cl. 78—13)



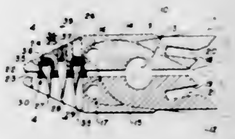
1. An apparatus for sizing pre-formed articles comprising a cylinder, a hollow ram reciprocatingly mounted therein and having a centrally disposed I. D. punch secured thereto and projecting outwardly therefrom, a bored die holder and die adaptor mounted in said cylinder and actuated by said ram, said die holder and adaptor being reciprocable in said cylinder and having predetermined, limited longitudinal travel with relation to said ram, a movable length sizing member mounted in said hollow die holder and provided with a longitudinally projecting hollow stem through which said I. D. punch extends, a guide block adjacent the one end of the cylinder, a centrally bored, stationary, length adaptor mounted in said guide block and formed with a hollow stem disposed in longitudinal alignment with and slidably receivable in the bore in the die adaptor, means for supporting a pre-formed article in horizontal alignment with the hollow stem and the bore in the die adaptor and through which the I. D. punch travels, said punch, die adaptor, and length adaptors successively engaging said article in predetermined sequence to accurately size the I. D., the O. D. and the length of the article on the work-engaging stroke of said ram.

2,660,077
APPARATUS FOR ROLLING SHEET METAL
William R. Macaulay and John E. Coolidge, Waterbury, Conn., assignors to The American Brass Company, a corporation of Connecticut
Application February 2, 1946, Serial No. 645,204
12 Claims. (Cl. 80—56)



1. In apparatus for rolling sheet metal comprising a set of rolls, electrically operated pressure adjusting means for adjusting the pressure between said rolls, and gauging means producing electrical currents of magnitude related to the thickness of sheet metal emerging from the rolls, the improvement which comprises a pair of spaced photoelectric cells, a light source, optical means for deflecting a beam of light from the source from a normal line to one of said cells whenever the current produced by said gauging means corresponds to sheet thickness below the desired tolerance and to the other of said cells whenever such current corresponds to sheet thickness above the desired tolerance, a relay connected to the first photoelectric cell and actuating the pressure adjusting means to decrease the rolling pressure when light from the source is directed to said first cell, a second relay connected to the second photoelectric cell and actuating the pressure adjusting means to increase the rolling pressure when light from the source is directed to said second cell, repeating timer means for repeatedly and continuously interrupting actuation by the relays of the pressure adjusting means, and means independent of the electrically operated pressure adjusting means, and independent of the operation of said set of rolls for continuously operating said repeating timer means to minimize overcontroll and hunting, and means for adjusting the spacing of said photoelectric cells from said normal line, whereby to effect the adjustment of the sheet thickness tolerance which is to be automatically maintained.

2,660,078
FORK STRAIGHTENING PLIERS
John Armstrong, Yonkers, N. Y.
Application August 1, 1950, Serial No. 176,996
3 Claims. (Cl. 81—15)

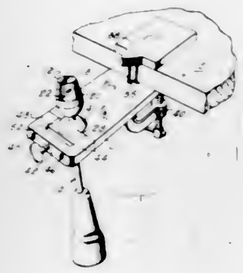


1. A device for the straightening of the bent tines of a fork implement having three or more tines comprising a plier-like tool, pivotally interconnected jaws associated with said tool for causing said jaws to move in parallel planes, a fixed central tooth carried by a first of said jaws, a pivoted outer tooth carried by said first jaw on each side of said fixed tooth, resilient means for urging said pivoted outer teeth into centered positions, each of said pivoted outer teeth being unsymmetrically wedge-shaped and tapered toward said fixed central tooth, each said jaw having parallel plane faces arranged to engage the upper and lower faces of said tines, said jaws arranged to clampingly approach about the bent tines of a fork implement with said teeth interposed in a deflected position of said pivoted outer teeth between said tines for the straightening thereof whereby the said bent tines are both spatially equalized and straightened to lie in the same flat plane.

2,660,079
HAND SUPPORTABLE CLAMP AND BENCH MOUNT THEREFOR
Foy E. Bellows, Dallas, Tex.
Application March 26, 1951, Serial No. 217,419
3 Claims. (Cl. 81—21)

2. In a clamping device, the combination comprising a horizontal plate adapted to be affixed at one end to a support, a U-shaped end piece attached to the opposite end of said plate and having confronting grooves in its legs, an insert

between the legs of said end piece and having tongues slidable in the grooves of said legs, said insert having a semi-circular recess confronting a recess of like formation in said opposite end of said plate, said recesses jointly defining a circular opening having concave walls, a ball



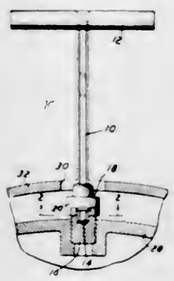
retained in said opening, means for manipulating said ball to a variety of positions, means bearing against said insert to frictionally hold said ball in adjusted positions and work clamping means carried by said ball opposite said manipulating means.

2,660,080

INTERNAL WRENCH WITH FASTENER RETENTION MEANS

William G. De Kam, Detroit, Mich., assignor to Kent-Moore Organization, Inc., Detroit, Mich., a corporation of Michigan

Application June 28, 1950, Serial No. 170,782
2 Claims. (Cl. 81—71)



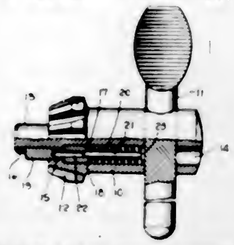
1. In a wrench of the Allen type having a shank provided with a handle at one end and a magnetic head adjacent the opposite end, a nonmagnetic sleeve fixedly mounted on the shank spaced from said opposite end and defining a radial shoulder spaced from the end of the sleeve, said magnetic head having a body portion provided with an axial opening therethrough and mounted upon the sleeve in abutment with the shoulder thereof, said head provided with a pair of diametrically opposed magnetic bifurcations depending from the body portion of the head beyond the end of the sleeve and spaced radially from the sides of the shank and spaced from said opposite end of the shank, and said opposite end of the shank defining a polygonal extension the facets of which are of equal width and adapted to fit within a complementary shaped socket in a plug.

2,660,081

SAFETY CHUCK KEY WITH EJECTOR MEANS

Thomas J. Dossie, New York, N. Y.

Application April 26, 1952, Serial No. 284,598
2 Claims. (Cl. 81—90)



1. A key of the character described, comprising a body having a handle member at one end, a pin at the other end of said body, a key element adjacent said pin, a tensioned ejector member normally projecting beyond said element at the second named end of the body and slidable therein, said member being placed under tension upon movement of the key element of said body into operative position, said member being adapted to eject the key element from operative position when pressure on said body is released, said key element comprising a pinion, and said member comprising a plunger normally arranged within limits of and at one side of said pin and extending beyond the pinion and paralleling the axis of said pinion.

2,660,082

TELESCOPIC MULTIPLE-SOCKET WRENCH

George A. Dreese, New Lexington, Ohio

Application August 23, 1952, Serial No. 306,029
2 Claims. (Cl. 81—185)



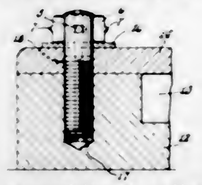
1. A multiple socket wrench, comprising: an outer tubular member, the latter terminating at one end thereof in a wrench socket and being formed intermediate its length with a vertical slot, an intermediate tubular member slidably mounted in said outer member, said intermediate member terminating at one end thereof in a wrench socket and being formed intermediate its length with a vertical slot disposed for registry with the slot in said outer member, an inner member slidably positioned in said intermediate member, said inner member terminating at one end thereof in a wrench socket, a stud projecting from said inner member intermediate its length and extending through the slots in said intermediate and outer members, a clamping means carried by the outer end of said stud, said means having frictional engagement with the outer wall surface of said outer member to maintain said members in fixed positions of relative adjustment wherein the socketed ends thereof are adapted to be selectively projected beyond and retracted with respect to the corresponding ends of the remaining members, a coil spring confined in a chamber formed in said outer member, said spring serving to exert pressure on said intermediate member to move the same in an outward direction relative to said outer member, means coacting with said intermediate and outer members to limit the extent of movement of the intermediate member in an outward direction, and a second coil spring confined between one end of said intermediate member and a corresponding end of said inner member, said second spring serving normally to maintain said inner member in working position with respect to said intermediate member wherein the socketed end of said inner member is disposed within the confines of the socketed end of said intermediate member.

2,660,083

TILT HEADED TAP BOLT

Miller S. Tyson, Longmeadow, Mass.

Application January 5, 1950, Serial No. 136,861
1 Claim. (Cl. 85—9)



A tap bolt comprising a cylindrical member provided at one end with a head for tightening and loosening the bolt which comprises an open ended diametrically extending kerf, a pin extending transversely of the kerf and diametrically of the cylindrical member, a substantially rectangular head member pivoted on said pin within the kerf by means of a slot extending centrally and longitudinally of the head member, said head member being of a length greater than, and a width substantially equal to, the diameter of the unthreaded portion of the cylindrical member, the thickness of the head member being substantially equal to one-quarter of the diameter of the cylindrical member and sufficient to substantially fill the kerf while permitting frictional pivotal movement of the head on the pin, a projection formed on each end of the head member, a recess formed in the floor of the kerf in which one of said projections is adapted to engage when the head member is in axial alignment with the cylindrical member, the length of said slot being only sufficient to seat and unseat the projection in and from said recess, said cylindrical member being machine threaded at least from the floor of the kerf to the opposite end of the cylindrical member to permit the head member to exert bolt head clamping pressure, when pivoted to a position transversely of the cylindrical member, upon tightening of the bolt.

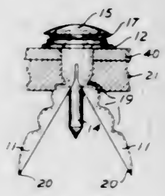
2,660,084

FASTENING MEANS

Leopold Newman, New York, N. Y., assignor to Falcon Fasteners, Inc., New York, N. Y., a corporation of New York

Application November 16, 1949, Serial No. 127,638
4 Claims. (Cl. 85—38)

1. A nail type fastener adapted to be driven into securing position comprising a unitary assembly of a body portion and a headed nail mounted in and carried by said body portion, said body portion comprising at least two longitudinally extending body members, said body members being joined at their head ends and provided with a flanged head portion, being longitudinally separable throughout their lengths and being pointed at their lower ends, said body members being further provided with transversely and inwardly extending dents forming inwardly extending projections, an annular, semi-rigid, spacing sleeve sur-



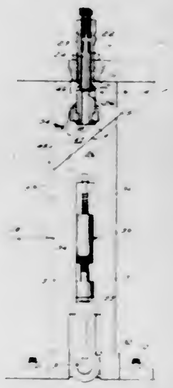
rounding the nail and positioned between the head of the nail and said head portion of the body members, for holding the nail in extended position, in which position it resists light hammer blows so that the fastener can be driven into the work until said flanged head portion contacts the surface of the work, said sleeve being thereafter deformed and crushed by heavier hammer blows to allow the nail to pass further into said body portion of the fastener and into operative engagement with said inwardly extending projections for spreading apart said body portions.

2,660,085

APPARATUS FOR INTERCEPTING PRIMERS AND THE LIKE

William B. Swansick, Hayward, Calif.

Application March 17, 1952, Serial No. 276,984
7 Claims. (Cl. 86—36)



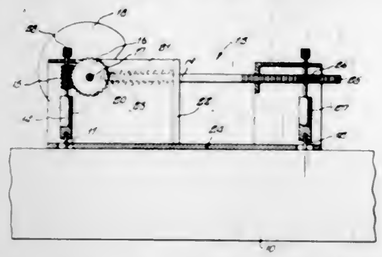
1. Apparatus for receiving punched out portions from a member selectively movable from and towards a fixed punch member by reciprocatory means, including a member having a receiving opening and a discharge opening, means defining a chamber placing said openings in flow communication, means on said member actuatable by said reciprocatory means for selectively placing said receiving opening into and out of axial registration with said punch member.

2,660,086

APPARATUS FOR COORDINATING OPERATING WAVE LENGTH AND SLIT SIZE IN SPECTROPHOTOMETERS

Robert W. Foreman and Melvin M. Fink, Cleveland, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application April 19, 1951, Serial No. 221,882
1 Claim. (Cl. 88—14)



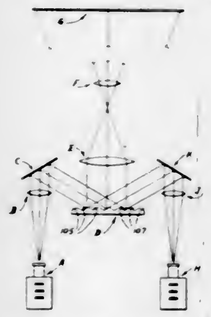
In a single-beam spectrophotometer having a source of radiation providing a continuous emission spectrum and having a slit adjustable by a slit drive-shaft and an operating wavelength controlled by a wavelength drive-shaft, and wherein said drive-shafts extend from the upper plane of a casing of said spectrophotometer in substantially parallel directions, a slit drive mechanism comprising a worm mounted on the wavelength drive-shaft, a gear meshing with said worm, a disc-type cam driven by said gear, a rod mounted for movement in a plane above and substantially parallel to said spectrophotometer casing plane, a cam-follower mounted on one end of said rod for engagement with the periphery of said cam, a spring urging said cam-follower against the periphery of said cam, a rack on the other end of said rod, and a pinion mounted on the slit drive-shaft and meshed with said rack, whereby the slit is adjusted according to the peripheral shape of said cam to tend to compensate for the spectral energy distribution of the source of radiation as the operating wavelength of the spectrophotometer is altered.

2,660,087

MULTIPLEX PICTURE PROJECTION APPARATUS

Sol Domeshek, Great Neck, N. Y.

Application December 16, 1949, Serial No. 133,454
11 Claims. (Cl. 88—16.6)
(Granted under Title 35, U. S. Code (1952), sec. 266)



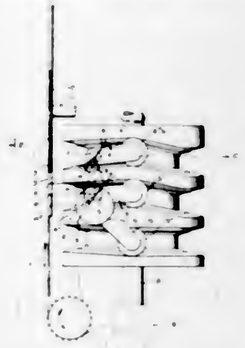
1. An optical system comprising a projector adapted to deliver a first beam of light rays, a second projector adapted to deliver a second beam of light rays parallel to said first beam, mirrors in the path of each of said beams faced to direct the beams reflected therefrom toward each other, and a multiprism mirror having alternate faces parallel respectively with said mirrors and in the path of the reflected beams.

2,660,088

APPARATUS FOR CONTINUOUS CINEMATOGRAPHIC PROJECTION

Vinto Serra, Milan, Italy

Application January 24, 1950, Serial No. 140,195
Claims priority, application Italy
December 23, 1949
1 Claim. (Cl. 88—16.8)



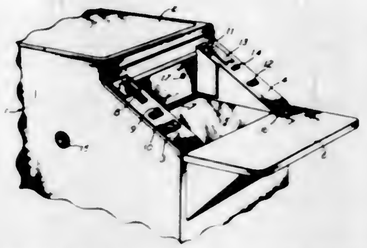
A cinematographic apparatus, comprising in combination: actuating means for continuously advancing a film, a pair of oscillatable parallel mirrors arranged in the path of light rays between said film and an objective for throwing an image from one to the other, oscillating means operatively connected with said actuating means and engaged with said parallel mirrors for oscillating same in timed relationship to the advancing of the film, said oscillating means including rotatable cam means coupled with said actuating means for rotation in synchronism with the advancing of the film, said cam means having a pair of slots, a pair of cam followers operatively engaged with said pair of slots, a pair of crank arms, one end of each crank arm carrying one of said cam followers, and a pair of rotatable pins, each pin being connected with the other end of one of said crank arms and being fixed to one of said mirrors in coaxial alignment with the axis of oscillation of the latter, and correcting means operatively connected with said actuating means and engaged with at least one of said mirrors for displacing the axis of oscillation of the associated mirror in a predetermined relation to the variations of inclinations of the oscillating mirrors so as to correct continuously the perpendicular distance between said parallel mirrors for maintaining constant the length of the light rays between the film and the objective, said correcting means including at least one rotatable supporting means, the pin fixed to the mirror subject to displacement of its axis of oscillation being rotatably mounted in said supporting means, the axis of said pin being parallel and eccentrical to the axis of rotation of said supporting means, a lever rigid with said supporting means, and a third cam follower mounted on said lever, said rotatable cam means having a third slot, and said third cam follower being operatively engaged with said third slot.

2,660,089

FILM INDEXING

Harold T. Olson, Baldwin, N. Y., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware

Application January 21, 1949, Serial No. 71,942
4 Claims. (Cl. 88—24)



1. Photographic document copying apparatus comprising means for feeding documents to be copied into and through the photographic field of the machine, light means for illuminating a document in said photographic field, a lamp housing enclosing a portion of a document for the time being in the photographic field, an edge portion on said lamp housing, a reflector adapted and arranged to concentrate light from said lamp onto said portion of a document and having an edge disposed in spaced parallel relationship with respect to said edge portion on said lamp housing to define an elongated slot, plate means at each end of said slot having an inner end portion extending between said edge and said edge portion to limit the endwise extent of said slot, means on the opposite side of said slot from said photographic field for mounting and feeding sensitized photographic film strip longitudinally through a plane parallel to and in alignment with the portion of an image for the time being in the photographic field, optical means for focussing an image of said portion of a document onto a central portion of said film strip leaving a marginal portion of said film strip unexposed, an index light housing enclosing an indexing lamp adapted and arranged to direct light from said lamp through an aperture in said plate means for focussing onto said marginal portion of said film and switch means operatively associated with the indexing lamp and selectively operable to expose to a projected light image from said indexing lamp a marginal portion of said film alongside and coextensive with any selected document image whereby, in the developed film, a distinctive index mark is visible coextensive with a selected document image.

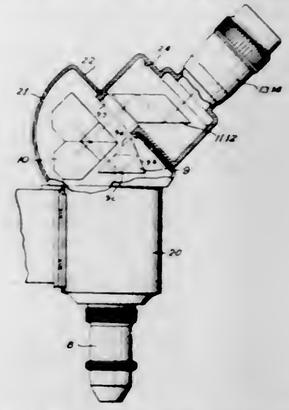
2,660,090

PRISM SYSTEM FOR BINOCULAR MICROSCOPES

Ernst Leitz, Jr., Max Engelmann, and August Bröhl, Wetzlar, Germany, assignors to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany

Application July 12, 1949, Serial No. 104,244
Claims priority, application Germany
November 1, 1948
4 Claims. (Cl. 88—39)

1. In a microscope comprising an objective, a microscope tube having a first housing, two additional housings rotatably connected with the first housing, two rhomboidal prisms arranged in the two additional housings, and two eyepieces adapted to be adjusted to a desired eye distance by rotation of the two housings: the combination of a Schmidt's prism and a compact glass body constituting a cemented prism system, said combination being arranged between the objective and the rhomboidal prisms, said Schmidt's prism having three reflecting surfaces which vertically erect and deviate by 45° with respect to the optical axis of the objective the image emerging from the objective, and said cemented prism system having one beam incidence surface and two beam emergence surfaces, a beam dividing surface arranged behind the beam incidence surface, said beam dividing surface dividing the beam emerging from said Schmidt's prism into two beams which proceed in perpendicular planes, and three reflecting surfaces in the path of each of said two beams in a spacial arrangement of the type of a Porro system, the Porro system in one of said paths being without a first and the Porro system in the other of said paths being without a last reflecting surface, said reflecting surfaces erecting the image emerging from the objective laterally and projecting it onto the rhomboidal prisms while simultaneously deviating the two beams emerging from the prism system by 90° with respect to the beams entering the prism system from the Schmidt's prism.

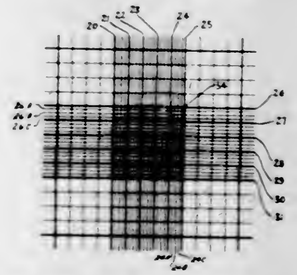


2,660,091

HAEMACYTOMETER AND THE LIKE

Frederick C. McCallum, Williamsville, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application September 22, 1948, Serial No. 50,508
9 Claims. (Cl. 88—40)



1. A light transmitting optical device comprising a transparent supporting member formed of

a relatively high silica borosilicate two-phase type of glass having a silica content of between approximately 70% and 90%, a boric oxide content between approximately 20% and 6%, a sodium oxide content between approximately 4.5% and 2%, and an aluminum oxide content between approximately 6% and 1%, said glass having two predominantly different heat responsive softening temperatures, said member having a smooth surface thereon, and a semi-transparent layer thereon formed of a metallic material of substantially uniform density and selected from the group consisting of gold, silver and the platinum metals, and having a plurality of fine sharply defined closely spaced substantially parallel ruled reference lines therein, one of said reference lines being spaced from an adjacent reference line by an amount approximately equal to five hundredths of a millimeter, said layer being relatively hard and abrasive resistant and tenaciously bonded to said smooth surface, and having the characteristics of a vacuum deposited coating, and with the bond between said layer and said member having characteristics like those resulting from the heating of said member and said layer thereon at a temperature between the lower of said softening temperatures and upper of said softening temperatures for a time sufficient to soften one of the phases of said glass.

2,660,092

EYEGLASS ATTACHMENT

Ildikó E. Bloom, Closter, N. J.

Application November 2, 1950, Serial No. 193,690
1 Claim. (Cl. 88—51)



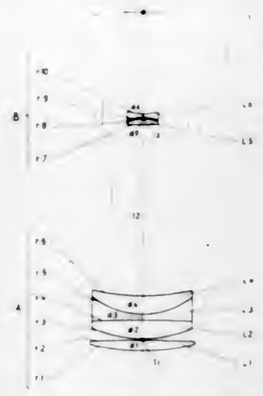
The combination with an eyeglass frame of a flexible band comprising a cord having an inextensible core and a deep pile extending radially in all directions from the core, said flexible band having its opposite ends attached, respectively, to the opposite sides of said frame, said flexible band having a length substantially in excess of the distance between the opposite sides of said frame extending from one side of the frame around the head of the wearer to the opposite side of the frame, said band extending, when said eyeglass frame is in position, from one side of said frame along one side of the head of the wearer, thence around the back of the head and along the opposite side of the head to the opposite side of said frame, said excess length of the band being formed into a free loop intermediate the attached opposite ends of the band, and an annular fastening member surrounding the loop and slidable thereon to adjust the effective length of the band between the sides of said frame and to cause said band to fit snugly about the head, an enlargement on the band of such size as to normally prevent the fastening means from being removed from the loop and so limiting the extent to which the annular fastening means may be moved along the flexible band that the loop is positioned at a place sufficiently remote from the adjacent side of said frame that it may be concealed in the wearer's hair.

2,660,093

TELESCOPE OBJECTIVE

Ludwig Bertele, Heerbrugg, Switzerland, assignor to Henry Wild Surveying Instruments Supply Co. Ltd., Heerbrugg, Switzerland, a Swiss company

Application September 6, 1950, Serial No. 183,329
1 Claim. (Cl. 88—57)



A telescope objective, comprising a positive system assembly and a negative system assembly, the positive system assembly consisting of two positive members with at least two cemented surfaces, said two positive members being separated in space, the negative system assembly comprising a negative member and a positive member spaced from the said negative member, said negative member being located closer to the picture plane than the last-mentioned positive member, the air gap between said negative member and the last-mentioned positive member having the form of a meniscal condensing lens bent toward said picture plane, the thickness of said air gap being greater than 0.0001 f and smaller than 0.03 f, the focal length of the last-mentioned positive member being greater than 0.05 f and less than 0.4 f, whereby f is the total focal length of the objective.

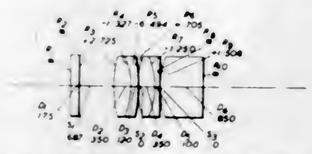
2,660,094

TWO MEMBER OPTICAL OBJECTIVE

William Michael Wreathall, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a British company

Original application July 16, 1951, Serial No. 236,949, now Patent No. 2,638,034, dated May 12, 1953. Divided and this application June 16, 1952, Serial No. 293,710
Claims priority, application Great Britain July 17, 1950
7 Claims. (Cl. 88—57)

1. An optical objective corrected for spherical and chromatic aberrations, coma and astigmatism and having a curved short-conjugate field, and comprising a rear member having an overall axial length between 1.1 F and 2.2 F, where F is the equivalent focal length of the rear member, and consisting of two convergent doublets in front of a simple component each doublet having a convergent element in front of a divergent element, the more deeply curved of the two internal contacts in the rear member having a radius of curvature between .7 F and 1.5 F, and a front member separated from the rear member by an air space whose axial length lies between zero and .8 F and consisting of a simple element having one surface slightly aspherical, the departure of such surface from the osculating sphere at the vertex of the surface at no point exceeding .06 F.



2,660,095

OPTICAL OBJECTIVE OF THE TELEPHOTO TYPE

Gordon Henry Cook, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a British company

Application June 26, 1952, Serial No. 295,601
Claims priority, application Great Britain August 17, 1951
20 Claims. (Cl. 88—57)



1. An optical objective of the telephoto type corrected for spherical and chromatic aberrations, coma, astigmatism and field curvature, and comprising a divergent rear member, and a convergent front member widely separated therefrom, the front member consisting of three simple components of which the first is convergent with its surfaces convex to the front, the second is convergent and biconvex and the third is divergent and biconcave, the curvature of the rear surface of the second component exceeding that of the front surface of the third component by between .02 and .2 times the equvalent power of the objective, whilst the radius of curvature of the front surface of the first component is less than .6 F and greater than that of the front surface of the second component which in turn is greater than .2 F, where F is the equivalent focal length of the objective.

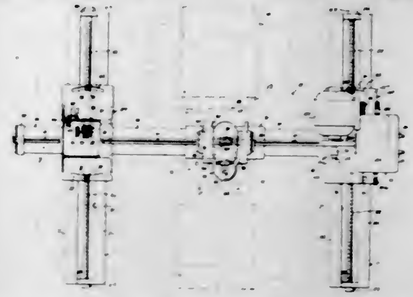
2,660,096

PORTABLE MILLING MACHINE

Henry Earl Morton, Muskegon Heights, Mich., assignor to Morton Manufacturing Company, Muskegon Heights, Mich., a corporation of Michigan

Application November 16, 1948, Serial No. 60,339
10 Claims. (Cl. 90—15)

1. A portable milling machine comprising a pair of substantially horizontal separate elongated supports adapted to be positioned in laterally-spaced substantially parallel relationship on opposite sides of the area to be machined with an open space between said supports to give access to the area to be machined, a slide mounted for horizontal travel along each support, a bracket housing mounted on and traveling horizontally with one of said slides, a driving mechanism housing mounted on and traveling horizontally with the other of said slides, said slides being mounted on their supports for travel independently of and relatively to one another, both of said housings being pivotally mounted on their respective slides, a cross beam extending between said housings and traveling horizontally



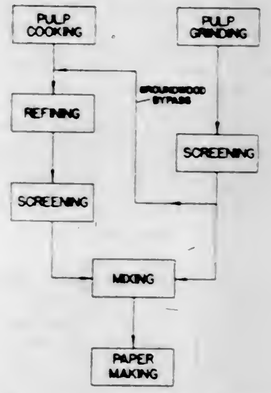
therewith, said cross beam having horizontal longitudinal sliding engagement with one of said housings, a carriage horizontally slidably mounted on said cross beam, a cutter spindle rotatably mounted on said carriage, a prime mover, mechanism drivingly connecting said cutter spindle to said prime mover, said connecting mechanism being disposed at least partially within said driving mechanism housing, mechanism for moving said carriage horizontally along said cross beam, and mechanism for moving said slides independently of one another horizontally along their respective supports.

2,660,097

METHOD OF PROCESSING WOOD PULP

Harold Sanford Hill, Kenogami, Quebec, Canada, assignor to Price Brothers & Company, Limited, Quebec, Canada, a corporation of Quebec, Canada

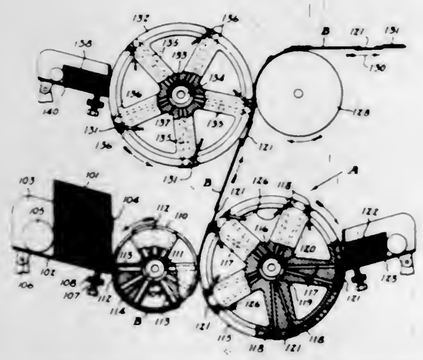
Application April 16, 1949, Serial No. 87,893
4 Claims. (Cl. 92—20)



1. The method of preparing a papermaking furnish made up of 10% to 25% raw chemical wood pulp as one component and of 90% to 75% of groundwood as another component, which includes as one step the rolling of moist, nodulated pulp tractively in traverse of and under compres-

sion by and between two opposed working surfaces, which comprises first mixing 0.5% to 8% of the groundwood with the raw chemical pulp, thereby to increase the ability of the pulp to absorb working power without slipping or smearing on the working surfaces, bringing the mixture to a state in which its mass is made up of small, moist, discrete nodules of fibres at high consistency, compressing the nodulated mixture between two opposed working surfaces which are roughened to provide traction for the pulp without obstructing rolling traverse of the pulp nodules on said surfaces, rolling the nodulated mixture tractively in traverse of the working surfaces while it is under compression between them to refine the mixture, and then mixing the balance of the groundwood component of the furnish with the refined mixture.

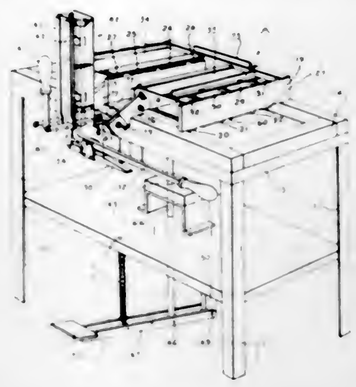
2,660,098
APPARATUS FOR AND METHOD OF COMBINING ENWRAPMENTS
Clarence W. Vogt, Norwalk, Conn.
Application September 14, 1948, Serial No. 49,277
7 Claims. (Cl. 93—1)



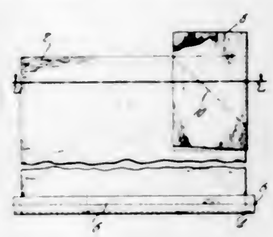
2. Apparatus for assembling enwrapments which comprises a supporting surface to hold a plurality of separate enwrapments, a second supporting surface to hold a plurality of separate chaining elements, withdrawing means to successively withdraw individual ones of said enwrapments, means to move the withdrawing means continuously to advance the enwrapments in a predetermined path in spaced relation, withdrawing means to withdraw individual ones of said chaining elements and successively advance them into superposed position with respect to portions of adjacent enwrapments, and means for adhering spaced portions of each of said chaining elements to the adjacent sides of said adjacent enwrapments.

2,660,099
APPARATUS FOR FOLDING WRAPPERS
Robert M. Dunning, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application October 30, 1947, Serial No. 783,093
5 Claims. (Cl. 93—12)

3. An apparatus for forming a bag including a form having a pocket therein, a mandrel movable into said pocket, said mandrel being operable to press a sheet into the pocket, a pair of opposed members mounted on said form adjacent to said pocket to engage the sheet along lines spaced from the ends thereof and to wrap the ends of the sheet over said mandrel, means engaging the sheet for retarding the ends of the sheet to bring the inner surfaces of the sheet ends into contact, and means pivotally supporting said mandrel for movement from upright position to a position above said pocket, and slidably supporting said mandrel for movement from the position above said pocket to a position in said pocket.

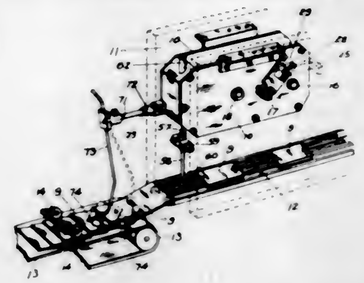


2,660,100
METHOD OF MAKING BAGS
James F. Doyle, Forest Hills, N. Y., assignor to Arkell Safety Bag Company, New York, N. Y., a corporation of New York
Application December 11, 1948, Serial No. 64,768
3 Claims. (Cl. 93—35)



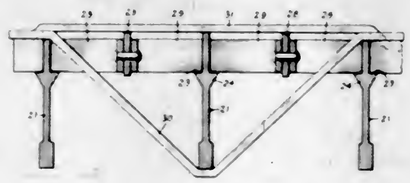
1. The method of forming a sleeve valve in a bag of the class described which comprises folding a sheet having a thermoplastic coating on the inner side thereof over the upper end portion of one of the longitudinal edges of the bag, applying heat and pressure to the portion of the sheet overlying the adjacent corner of the bag to cause the coating to adhesively secure said sheet over said edge and to the side walls of said corner, tucking in said corner of the bag with said sheet attached to form a valve, the folded sheet being so positioned that the ends thereof when the corner is folded in extend beyond the inner and outer ends of the valve and the longitudinal edges of the sheet are substantially flush with the upper edges of the bag walls, folding a tape having a thermoplastic coating on its inner side over the upper edges of the bag and over the longitudinal edges of the sheet, and applying heat and pressure to said tape to cause it to adhere to the upper margins of the side walls of the bag and the longitudinal margins of said sheet.

2,660,101
MECHANISM FOR NUMERICALLY GROUPING BOOKLETS AND THE LIKE
Cecil Joseph Sadler, Rose Bay, near Sydney, New South Wales, Australia
Application August 8, 1950, Serial No. 178,190
1 Claim. (Cl. 93—93)



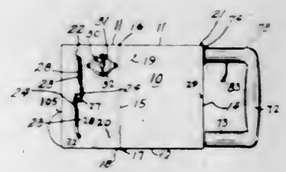
In combination, mechanism for sequentially advancing booklets and other mechanism for numerically grouping booklets so advanced, said last named mechanism comprising a ratchet having a plurality of teeth equal in number to the number of booklets desired in each group, and a cam having a single tooth angularly registered with one tooth of said ratchet, said ratchet and said cam being mounted on a common shaft; booklet displacement means actuated by said cam for displacing all advanced booklets having ordinal numbers that are multiples of the number of teeth on said ratchet; a pawl for driving said ratchet, said pawl being actuated in response to each operation of said first named mechanism; a control lever having a footed extension, said lever being connected at one end thereof to a feeler, and at the other end thereof being in contact with said pawl; an eccentric cam in contact with said control lever; and a peripherally notched cam freely mounted adjacent to said eccentric cam, said notched cam being capable of coming into contact with said extension of said lever, said notched cam being adapted to be driven in lost motion manner with respect to said eccentric cam.

2,660,102
GRATING
Ernest L. Tarof, Jersey City, N. J.
Application February 28, 1950, Serial No. 146,788
1 Claim. (Cl. 94—30)



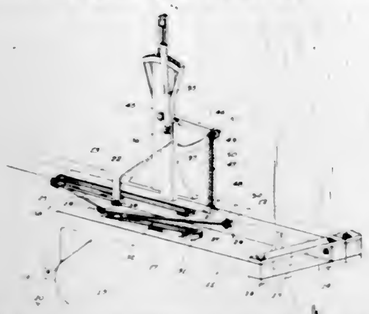
A grating composed of three series of intersecting supports adapted to be assembled from the top of the grating and the upper edges of which form the surface pattern of the grating, the supports of one series being constituted of a plurality of load bearing beams arranged in spaced, substantially parallel relation, each of said beams having a relatively thin body portion and a flange located intermediate the top edge of said body portion and the horizontal center line of such beam and closer to the latter than the former, the body portion of the beam above said flange being of substantially uniform thickness, the top edges of said flange being disposed substantially at right angles to the sides of said body portion above said flange and forming a pair of narrow, horizontal shoulders extending longitudinally on each side of the body portion of the beam, the body portions of said beams above said flanges being provided with spaced, open slots extending downwardly from the upper edges thereof, the second series of supports being constituted of a plurality of grating bars extending transversely of said beams, said grating bars being of a length to span a plurality of said beams and each being seated in the aligned slots of such beams, said grating bars having open slots extending upwardly from their lower edges to receive the body portions of said beams below said beam slots, the slots extending from the upper edges of said beams and the slots extending from the lower edges of said grating bars enabling said grating bars to be forced down from the top into interlocking relation with said beams and enabling the shoulders formed along the lower edges of said grating bars by the slots thereof to seat on said horizontal flange shoulders, said grating bars having a depth substantially the same as the depth of said beams above the flanges thereof and being provided with a plurality of spaced slots extending downwardly from the upper edges thereof, and the third series of supports being constituted of cross bars forced down into the aligned slots on the upper edges of said grating bars, the upper edges of said beams, grating bars and cross bars lying in substantially the same horizontal plane, and truss bars extending transversely of said beams and in a predetermined fashion woven over and under said load bearing beams and having spaced portions each of a length as to extend over a plurality of said beams and disposed in horizontal relation against the top edges of said beams, said spaced truss portions projecting above the upper edges of said beams, grating bars and cross bars to prevent skidding of vehicles on the grating.

2,660,103
COMBINATION METERING AND VIEW FINDING CAMERA WITH SWIVEL HANDLE GRIP
Lyle M. Culp, Colman, S. Dak.
Application May 28, 1951, Serial No. 228,671
2 Claims. (Cl. 95—86)



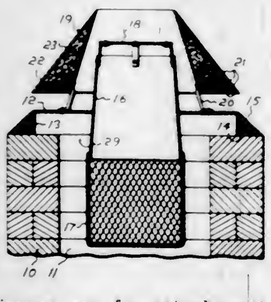
1. A camera including a camera body, a handle member attached to said camera body, said handle member being substantially U-shaped, one of the sides of said handle member being pivoted to said camera body whereby said camera can be swung to a position at right angles to said handle member, view finders attached to said camera body including pairs of spaced buttons attached at the top and side of said camera body, means for adjustably spacing said buttons inwardly or outwardly, centrally positioned sighting members attached to said camera body for sighting with respect to said buttons.

2,660,104
VEHICLE MOUNTED TAKE-OUT PLOW
John C. Rutherford, Hammondsport, N. Y.
Application October 3, 1949, Serial No. 119,243
1 Claim. (Cl. 97—47.38)



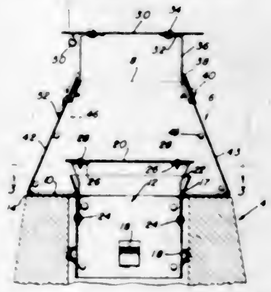
A take-out plow assembly comprising a beam adapted to be pivotally mounted to the chassis frame of a vehicle at one side of the latter to swing vertically relative to the vehicle, a plow beam pivotally connected with the first beam and adapted to swing laterally toward and away from the vehicle, a manipulating lever for the plow beam pivotally mounted on the first beam, a guide member mounted on the first beam and having a guide slot extending longitudinally thereof, a guide member mounted on the plow beam and having a cam slot, a pair of links pivoted to one another, one of said links having an end pivoted to the first beam and provided intermediate its ends with a cam roller engaging in the cam slot, the other of said links being provided adjacent the free end thereof with a roller engaging in the first-mentioned guide slot, and a link pivotally connecting said lever with the last-mentioned link of said pair whereby upon rocking movement of said lever the plow beam is caused to swing laterally relative to the first-mentioned beam.

2,660,105
CHIMNEY CAP
Harold A. Sabin, Jr., Portland, Maine
Application May 11, 1949, Serial No. 92,611
4 Claims. (Cl. 98—78)



1. A chimney cap for attachment to a chimney, said cap comprising a plate member to close the upper end of said chimney, an upwardly disposed conduit member supported by said plate member and opening through said plate member centrally thereof, said conduit member being, throughout its length, of substantially lesser cross sectional area than the upper end of said chimney, and a cap part approximately of frustro-conic form supported by said plate member and housing said conduit member in spaced relation thereto, said cap part extending above the upper end of said conduit member and having an upwardly opening vent of approximately the same area as the upper end of said conduit, and said cap part also having a plurality of openings adjacent said plate member and disposed about its periphery to ensure the free flow of air therethrough.

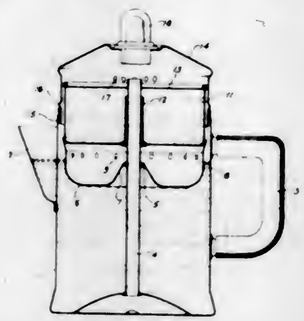
2,660,106
CHIMNEY COWL
Arthur W. Gray, Rockland, Maine
Application August 3, 1951, Serial No. 240,116
1 Claim. (Cl. 98—83)



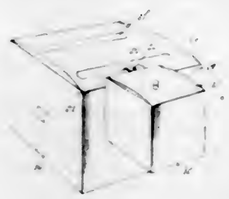
A chimney cowl comprising a hollow sheet material truncated pyramidal hood having a flat horizontal ledge constituting a supporting base and adapted to rest atop the chimney, the base being provided with central opening means and being further provided with an integral depending adapter neck, said neck being provided with resilient friction held detents, the body portion of said hood embodying complemented trapezoidal walls certain of which have end flanges overlapping and secured to cooperating ends of the complemental walls, said base being centrally provided with an upstanding outwardly flaring collar, the collar circumscribing said central opening means, a flat baffle plate within the confines of said hood and in axial alignment with said opening means and neck and disposed in close spaced relation above said collar, said baffle plate being provided with brackets depending therefrom and attached to said neck, a second baffle plate disposed on a plane above and in axial alignment with the truncated upper end of said hood, and brackets marginally attached to the edge portions of said baffle plate and depending therefrom and having hooks on their lower ends detachably connected to the upper edges of the wall portions of said hood.

2,660,107
COFFEE PERCOLATOR
Triest J. Cappello, Seneca Falls, N. Y.
Application June 30, 1951, Serial No. 234,586
4 Claims. (Cl. 99—310)

1. In a coffee percolator of the type in which water is recirculated through a coffee basket and including a pot having a generally cylindrical body and a pouring spout near the top of said cylindrical body in communication with the interior of the body, a percolator tube and a coffee basket removably arranged thereon and spaced from said cylindrical body, the bottom of the coffee basket being located beneath the top of said pouring spout, and a liquid container removably mounted on the percolator tube with its upper edge surrounding the lower portion of the coffee basket, the liquid container being located above the bottom of the pouring spout spaced from said cylindrical body and having overflow openings below the coffee basket, the liquid container having a diameter approximately the diameter of the coffee basket and a capacity substantially less than that of said cylindrical body and being in communication through said overflow openings with the bottom of said cylindrical body, said liquid container acting to permit continuous percolation and circulation of water from the bottom of the cylindrical body through the percolator tube to the coffee basket, thence to the liquid container, and from the liquid container through its overflow openings to the cylindrical body.

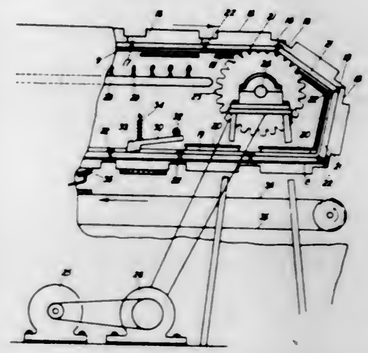


2,660,108
TOASTER
Louis Baer, Bronx, N. Y.
Application May 11, 1950, Serial No. 161,329
1 Claim. (Cl. 99—339)



In a device of the class described, the combination of a toaster apparatus and a heating compartment, said toaster apparatus being formed with a plurality of oblong openings at the top adapted to receive pieces of toast and for adjustability with said heating compartment, the latter being provided with a lid having a knob at the top, a lug fixedly attached upon one side of the compartment, screws securing said lug to the latter, bifurcated end portions at the end of said lug and integral therewith, said end portions being formed with flattened projections, a member formed with inwardly bent flanges adapted to partly encompass and telescope on said projections, a hook-like portion at one end of said member and adapted to adjustably engage one of said openings in the toaster apparatus, one of said flanges being formed with an orifice, and a bolt made to enter said orifice and adapted to secure one of said flanges to one of said end portions, when said hook is adjustably arranged relative to the toaster apparatus.

2,660,109
MACHINE FOR THE MANUFACTURE OF CRUMPETS AND THE LIKE
Robert James Hastings, Yagoona, New South Wales, Australia
Application June 14, 1948, Serial No. 32,869
7 Claims. (Cl. 99—423)



1. A machine for the manufacture of crumpets comprising, a plurality of moulds each having a body portion and a sliding valve portion disposed within said body portion, which, together form a moulding cavity, said moulds being linked together in endless chain like formation, rollers on said moulds, ejecting means acting upon the sliding valve portion of the respective moulds and comprising a weight member having ejecting pins and cam faces which latter are engaged by the rollers carried on the moulds whereby the ejecting pins are raised and lowered at predetermined intervals to permit unrestricted movement of the moulds.

2,660,110
WASTE CARTON CRUSHER
William R. Boutwell, Norfolk, Va.
Application November 16, 1951, Serial No. 256,766
3 Claims. (Cl. 100—295)



1. In a crushing apparatus of the character described, a relatively flat hollow crusher member having a top wall, a removable closure element mounted in said top wall to provide access to the interior of said crusher member for filling said member with weighting material, and a layer of padding on the bottom surface of said crusher member.

2,660,111
POSTAGE PRINTING DEVICE USING DIRECT AND OFFSET PRINTING
William Wilson Herrick and Alfred Burckhardt, Stamford, Conn., assignors to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware
Application June 24, 1949, Serial No. 101,204
3 Claims. (Cl. 101—91)

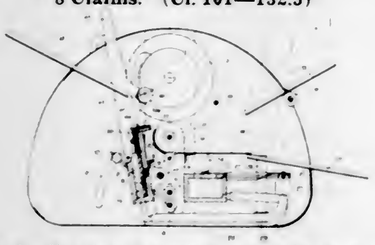
1. In a postage printing machine having a base and a detachable printing unit wherein the printing unit becomes operable for printing a complete postage indicia, postage value, town and date, when the detachable unit is attached to

the machine base and is sporadically operated; the combination of two coacting rotary printing elements, one of said printing elements comprising an offset printing cylinder mounted on the machine base and including type bearing postal indicia and inker elements; the second rotary printing element comprising a direct printing cylinder supported by the detachable printing unit and having an offset imprinter surface with direct type imprinters combined therewith, the direct type imprinters coacting with the inker elements during a printing cycle of operation, gearing associated with said printing cylinders arranged in synchronously operative driving re-



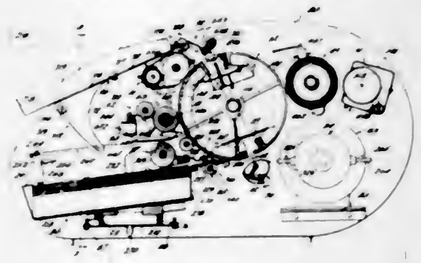
lation when the detachable unit is attached in a printing position on the machine base, inking means operatively positioned relative to the type bearing postal indicia and inker elements of the offset printing cylinder, and a drive to rotate said printing cylinders; whereby the postal indicia impression and ink from the printing cylinder associated with the machine base are transferred to the printing cylinder associated with the detachable printing unit, and a complete postal indicia impression along with the impression from the direct type imprinters are printed by the direct printing cylinder on an article of mailmatter presented thereto.

2,660,112
SOLVENT-OPERATED DUPLICATING MACHINE
Marcel L. A. Delplanque, Paris, France
Application April 22, 1952, Serial No. 283,545
Claims priority, application France November 8, 1951
8 Claims. (Cl. 101—132.5)



1. A duplicating machine, comprising a cylinder adapted to carry a transfer sheet, a sloping plate over which the transfer sheet is adapted to be fed to said cylinder along a generating line thereof, means associated with said cylinder and adapted to hold the forward end of the transfer sheet fed by the plate rigid with the cylinder along a predetermined generating line of the latter, means adapted to hold the said cylinder fast for a predetermined angular position thereof corresponding to a registering of the front edge of the sloping plate with the said predetermined generating line, a press cylinder adapted to be set in contacting relationship with the first cylinder over said transfer sheet, a second plate over which the sheet of paper to be printed is adapted to be fed into a plane tangent to the press cylinder, a reference cylinder lying in contacting relationship with the press cylinder along a generating line registering with the plane tangent to the press cylinder into which the paper to be printed is fed, a paper-guiding plate coaxially surrounding the press cylinder in close proximity with the periphery thereof along a portion of said periphery extending from said tangent plane in the direction of rotation of the press cylinder up to a line ahead of the generating line along which the press cylinder engages the first cylinder, the lower edge of the sloping plate feeding the transfer sheet, registering with the generating line along which the latter is secured to the first cylinder when the first cylinder is held fast, being located in a position such that the arcuate distances between the generating line thus defined on the first cylinder and the generating line along which the sheet to be printed engages the press cylinder, on one hand, and the cooperating generating lines on the two first cylinders, on the other hand, are equal.

2,660,113
ROTARY OFFSET DUPLICATOR
Harold R. Gullixson, Arlington, Va., and Herbert F. Bruns, Washington, D. C., assignors, by mesne assignments, to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application November 27, 1946, Serial No. 712,538
12 Claims. (Cl. 101—144)

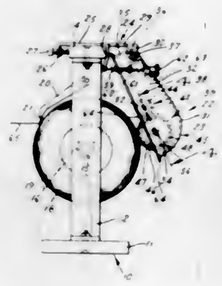


1. In apparatus of the class described, a frame having a front end at which an operator is intended to be stationed, a main cylinder mounted on said frame, a feed table in front of and below said cylinder, said table being inclined upwardly and rearwardly at a gradual angle, a vertical stack tail guide at the front end of the table, the angle formed between said tail guide and said table being less than 90 degrees, a fixed vertical stack head guide at the rear end of the table, the angle formed between the head guide and said table being greater than 90 degrees, said head guide and said tail guide being substantially parallel, guide means extending from the top of said head guide toward the bottom of said cylinder, means for feeding blanks from the stack and along said guide means to the cylinder, and means for elevating the table as blanks are fed from a stack thereon.

2,660,114
REPEATER PRINTER FOR STRIP STOCK
Tomun Finizie, Bridgeport, Conn., and John J. Connolly, Pelham Manor, N. Y.; said Finizie assignor to Bayus Electric, Incorporated, Bridgeport, Conn., a corporation of Connecticut
Application April 22, 1950, Serial No. 157,572
1 Claim. (Cl. 101—213)

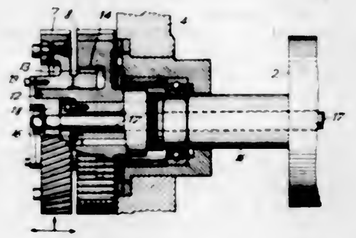
In combination with a rigid upper cross member of a roll paper holder or stand having means

thereon for supporting a roll of paper, a bracket detachably secured to said cross piece and projecting to the forward side thereof, a housing, horizontal pivot means pivoting said housing at its upper end on the forward portion of said bracket for swinging movement to carry the lower end portion of said housing toward and from a roll of paper supported by said stand, said housing open through its inner side and having a concavely rounded slotted depression in its outer side at a point below said pivot means, a printing roll mounted within said housing and of a diameter to project through the inner open side thereof for engagement with a roll of paper



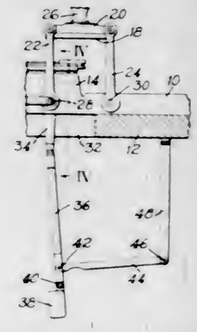
on said stand, said bracket including a depending tongue against the forward side of said cross piece and extending to a point below said pivot means, a tension spring anchored at one end to said tongue and extending forwardly beneath said pivot means, a nut secured to said tension spring, a shank threaded through said nut, and a finger piece on said shank engaged through said slotted depression and having a convexly rounded inner end seated within said depression in the outer side of said housing and turnable to adjust said nut along said shank and thereby adjust the tension of said spring to regulate the pressure with which said printing roller bears against the roll of paper on said stand.

2,660,115
CIRCUMFERENTIAL CYLINDER REGISTER MECHANISM FOR ROTARY PRINTING MACHINES
Max Ras, Zurich, Switzerland
Application December 28, 1949, Serial No. 135,424
Claims priority, application Switzerland January 7, 1949
2 Claims. (Cl. 101—248)



1. In a circumferential cylinder register mechanism for rotary printing machines in which the cylinder drive mechanism comprises a pair of helical gear wheels and a spur gear wheel rigidly keyed to the axle of a cylinder and having intermeshing gears between the spur gear and one of said helical gear wheels wherein the axial displacement of said latter helical gear wheel causes the additional rotation of a cylinder as required for circumferential cylinder register, the improvement consisting in incorporating an extended hub on said spur gear wheel, said extended hub bearing the axially displaceable helical gear wheel, an external gear on the side of said helical gear wheel, and an internal gear on said spur gear wheel, meshing with said external gear for transmitting rotation of said axially displaceable helical gear wheel to said spur gear wheel.

2,660,116
MARKING MACHINE
John Leslie Lutyens, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 28, 1951, Serial No. 263,816
Claims priority, Great Britain May 4, 1951
7 Claims. (Cl. 101—301)

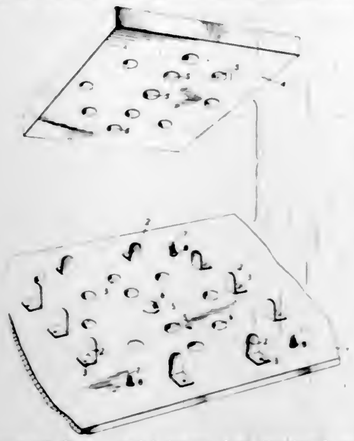


1. A marking machine comprising a work support, inking means adjacent to said support, a marking die, a carrier supporting said die, means supporting said carrier for movements into and out of operative relation with said work support and said inking means, a weight, means pivotally connecting said weight to said carrier supporting means, and means constraining said weight for substantially upward movement in response to movement of said carrier away from a position intermediate said work support and said inking means whereby the weight tends to return said carrier to said intermediate position.

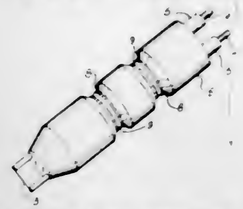
2,660,117
WORK SUPPORT
Claude Alfred Maunder, London, England, assignor to Masson Seeley & Co. Limited, London, England, a company of Great Britain
Application January 27, 1949, Serial No. 73,088
Claims priority, application Great Britain February 3, 1948
3 Claims. (Cl. 101—407)

1. A work support for presses or the like, comprising a base having a plurality of spaced recesses in its upper surface, a platform spaced above said base and having a plurality of recesses in its lower surface, said recesses in said base and platform being arranged to provide a plurality of spaced pairs of opposed recesses, and a separate rigid element removably positioned in a se-

lected pair of opposed recesses, said element constituting a fulcrum means suporting said platform spaced from said base for limited rocking movement relative thereto.



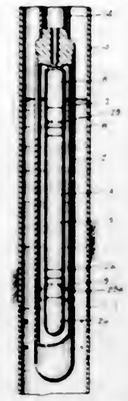
2,660,118
BLASTING CAP
Aldo J. Barocca, Godfrey, and Frederick R. Seavey, Alton, Ill., assignors to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware
Application August 19, 1949, Serial No. 111,132
1 Claim. (Cl. 102—28)



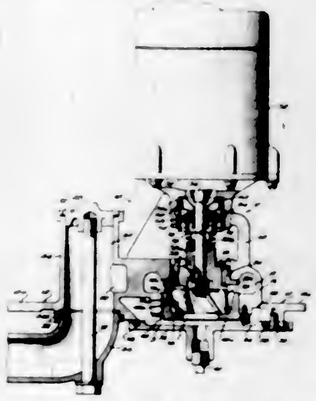
A device of the kind described comprising, a rigid plug embedding a pair of lead wires, said plug having a circumferential groove, a metallic case embracing the grooved area of the plug, said case being crimped into contact with the banks of the groove but spaced from the bottom of the groove, and an annulus of neoprene putty confined between the crest of the crimp and the bottom of the groove.

2,660,119
WELL PUMP
Hugo H. Baca, Corpus Christi, Tex., assignor of one-third to Harry J. Robins, Houston, and one-third to Eli Goldstein, San Antonio, Tex.
Application October 19, 1950, Serial No. 191,069
15 Claims. (Cl. 103—46)

1. A well pump including, a cylinder having an upper end and a lower end, said cylinder having an inlet port and an exhaust port at its upper end and also having a second inlet port and a second exhaust port at its lower end, a downwardly closing valve means in the cylinder above said inlet port and exhaust port at the upper end of the cylinder, a shiftable control element extending axially within the cylinder and co-acting with both inlet ports and both outlet ports for controlling flow therethrough, said control element having a longitudinal passage therethrough which communicates with said second exhaust port when said control element is shifted to open said second exhaust port, a power piston reciprocable within the cylinder and slidable on said control element, and means actuated by the power piston for shifting the control element upon the piston reaching its limit of movement in each direction, whereby the flow of fluid through the inlet and exhaust ports is changed to reverse the direction of travel of said piston.

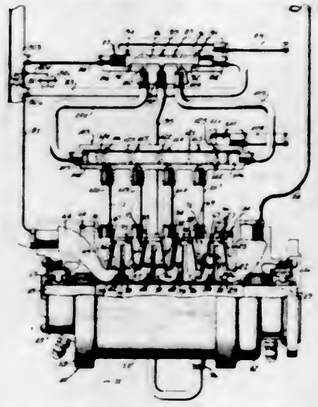


2,660,120
VAPOR SEPARATING PUMP
Miles Lowell Edwards, Longview, Wash.
Application February 25, 1949, Serial No. 78,430
15 Claims. (Cl. 103—88)



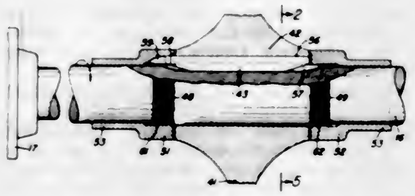
1. A pump comprising a casing having an open ended passage therethrough, an impeller disposed in said passage, means on said casing defining a pumping chamber about said impeller, a plurality of circumferentially spaced vanes on said impeller surrounding the inlet end of said passage and providing flow passageways therebetween to said pumping chamber, a vapor diffusion ring secured to said casing within said passing adjacent and above said vanes, a plurality of vanes circumferentially spaced about the inner face of said ring, and means on said impeller vanes for rotating material in said passage and separating vapor-rich material from liquid-rich material and for inducing said vapor-rich material to rise to a position adjacent said diffusion ring whereby said rotating vapor-rich material is scooped up by said diffusion ring vanes and diffused to a material reservoir.

2,660,121
MULTISTAGE CENTRIFUGAL PUMP
William H. Curtis, North Hollywood, Calif., Leslie L. Aspelin, Cleveland Heights, Ohio, and James C. Carter, Pasadena, Calif.; said Curtis and said Aspelin assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio, and said Carter assignor to The J. C. Carter Company, Pasadena, Calif.
Application February 15, 1951, Serial No. 211,104
20 Claims. (Cl. 103—97)



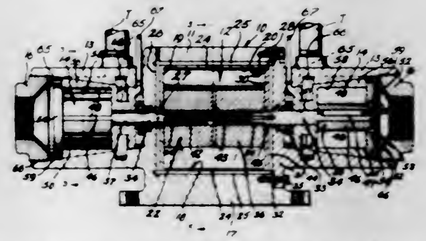
1. In a constant delivery volume fluid pump, a housing, an inlet into said housing, an outlet therefrom, a shaft journaled therein, means for rotating said shaft, an impeller on said shaft in communication with said inlet, a diffuser journaled on said shaft for free rotation with respect thereto and including a rotatable disk having a plurality of diffusing vanes extending therefrom, a stationary housing portion extending along one side of said disk, fluid pressure passageways from said housing portion to said disk, and fluid pressure means controlled by the delivery flow of said pump and operable to reduce the pressure in said passageways and establish a differential in pressure on opposite faces of said disk and cause the pressure of the fluid within said pump to force said disk against said housing portion, holding said disk and diffuser from rotation, rendering the diffuser active, and also operable to equalize the pressure on opposite faces of said disk and allow said disk to freely rotate on said shaft, rendering said diffuser inactive.

2,660,122
CENTRIFUGAL PUMP
Erik G. Landberg, Seneca Falls, N. Y., assignor to Goulds Pumps, Inc., Seneca Falls, N. Y., a corporation of New York
Application December 7, 1950, Serial No. 199,612
4 Claims. (Cl. 103—111)



1. In a pump adapted for right or left hand drive, the combination of an impeller having a hub, a shaft extending axially of said impeller and having bearings on opposite sides thereof, said shaft having threads on each side of the impeller both of which are of the same hand, a nut threaded on each of said threads into abutting relation with the hub to hold the impeller in position on the shaft, one of said nuts being locked in abutting relation with the hub of the impeller by reason of the fact that the impeller rotates in a direction opposite to the direction in which said nut is threaded, and means extending between the impeller and the other of said nuts for locking said impeller and said other nut against rotation with respect to the shaft.

2,660,123
THERMOHYDRAULIC POWER CONVERTER
Constantinos H. Vlachos, Vancouver, Wash.
Application August 11, 1952, Serial No. 303,790
1 Claim. (Cl. 103—118)

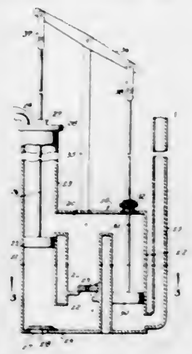


In a power converter having rotary gas powered motors one at each end and an intermediate rotary hydraulic pump uniting said motors, a housing comprising a base, an intermediate socket having an oblong shape transversely thereof and adapted to receive the rotor of said pump and define opposed chambers between the housing and said rotor, an open end on said socket, a closure for said open end, an inwardly tapered axially aligned socket in said closure and adapted to contain one of said motors, a reduced end portion on the housing opposed to said closure, an inwardly tapered axial socket in said end portion adapted to contain the other of said motors, and inlet and outlet ports in the housing for each motor and pump.

2,660,124
BALANCED WELL PUMP
William H. Porter, Phoenix, Ariz.
Application September 28, 1951, Serial No. 248,819
3 Claims. (Cl. 103—206)

1. A well pump comprising a pump cylinder having an upper end and a lower end, a flow pipe extending upwardly from the upper end of said pump cylinder, a check valve in the lower end of said pump cylinder admitting water into said cylinder while precluding passage of water therefrom through said check valve, a counterbalance cylinder adjacent said pump cylinder and substantially parallel thereto, means providing a first passage providing a fluid connection between the upper ends of said cylinders and a second passage extending from the interior of said pump cylinder at the lower end of the latter fluidly connected with said first passage, a check valve in said second passage admitting water from the lower portion of said pump cylinder through said passages to the upper portions of both cylinders while precluding return flow of water to the lower portion of said pump cylinder, an air vent tube extending upwardly from

the lower portion of said counterbalance cylinder along and substantially parallel to said flow pipe and connected to the atmosphere, a pump piston in said pump cylinder, a piston rod extending upwardly from said pump piston through said flow pipe, a pump piston in said counterbalance cylinder, a piston rod extending upwardly from



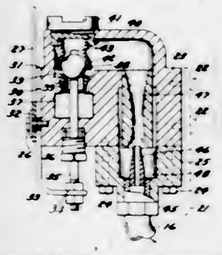
said counterbalance piston substantially parallel to said flow pipe, means providing a fixed support disposed between said piston rods above the upper ends of said cylinders, and a lever pivotally connected intermediate its length to said support and pivotally connected adjacent its ends to said piston rods.

2,660,125

CONTROL FOR SPRAY EQUIPMENT

Clarence A. Frese, Hudson, Mich., assignor to The Hardie Manufacturing Company, Hudson, Mich., a corporation of Michigan

Application November 6, 1950, Serial No. 194,268
2 Claims. (Cl. 103—262)



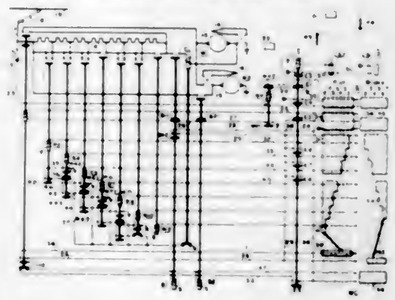
1. In spray solution equipment wherein said solution carries solid particles suspended therein causing rapid wear of a valve, a housing providing a chamber, first and second ducts communicating with said chamber, a jet and venturi aligned with the second duct for supplying said solution to said chamber, a third duct leading from said chamber for conducting said solution from said chamber, a sleeve element in said chamber at the third duct providing an annular seat, a valve ball in said chamber between said sleeve element and said first and second ducts, a cage in said chamber for said valve ball permitting rotation of said valve ball and movement of said valve ball toward and away from said seat in said sleeve element whereby said valve ball may engage said seat at different rings of contact on said ball each time said ball seats, a plunger movable into said sleeve element from said third duct side of said chamber for moving and positioning said valve ball away from said seat for flow from the second duct to act thru the venturi for promoting flow from the first duct to pass the venturi and thru the sleeve element to the third duct, and manual lever means for operating said plunger.

2,660,126

EMERGENCY DYNAMIC BRAKING SYSTEM

Maxwell D. Brane, Wexford, and Allen McLanahan, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 30, 1949, Serial No. 135,978
6 Claims. (Cl. 104—149)



1. In an electrically propelled vehicle, a motor-means, means for causing a variable voltage to be applicable across the terminals of the motor-means for speed-control during motoring, means for establishing a variable intensity of electric braking using said motor-means as a generator, a normal-operation controller-means for normally putting the motoring and electric-braking operations under the control of the vehicle-operator, a current-limit relay, an emergency switching-means having a normal position and an emergency position, emergency-switch actuating-means which is out of the control of the vehicle-operator for actuating said emergency switching-means from its normal position to its emergency position in response to some particular operating-condition of the vehicle, and means responsive to the emergency position of the emergency switching-means for taking the control away from said controller-means to the extent of discontinuing any motoring operation and automatically progressively establishing a number of steps of electric braking under the control of the current-limit relay, regardless of the position of the controller-means, said automatically established electric-braking steps, under emergency-switching control, being only certain of the weaker-intensity electric-braking steps, leaving the stronger-intensity electric-braking steps under the control of the controller-means.

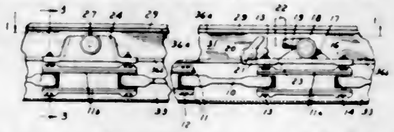
2,660,127

TRANSFER MECHANISM FOR FLOOR PROPELLERS

John Boyko, Detroit, and Edward W. McCaul, Birmingham, Mich., assignors to Jervis B. Webb Company, Detroit, Mich., a corporation of Michigan

Application June 14, 1949, Serial No. 99,025
5 Claims. (Cl. 104—172)

1. A power actuated transfer mechanism for use in a submerged drive floor truck propeller system wherein floor trucks are provided with drive engaging pins projecting into the path of drive dogs carried by a plurality of drive chains traveling along alternative submerged tracks comprising a movable transfer arm, cam track means for defining the path of said movement, power mechanism adapted to move said transfer arm along said cam track means, said arm and path being adapted to intercept the drive pin of a floor truck being propelled by a submerged drive chain along one path and to move said pin



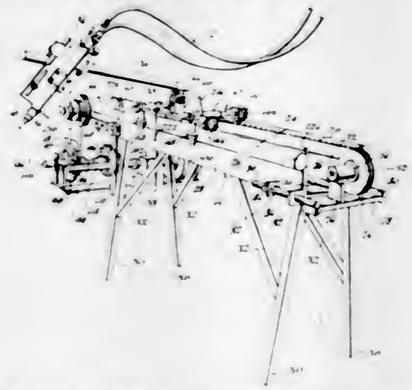
along a path departing from said drive chain into the path of an adjacent drive chain, said chain tracks being relieved to accommodate the travel of said arm, stationary guide tracks being provided between said drive chains for guiding said pin along said path.

2,660,128

METAL-WORKING APPARATUS

Stanley W. Hayes, Richmond, Ind., assignor to Hayes Track Appliance Company, Richmond, Ind., a corporation of Indiana

Original application December 28, 1943, Serial No. 515,937, now Patent No. 2,481,421, dated September 6, 1949. Divided and this application April 27, 1949, Serial No. 89,840
7 Claims. (Cl. 104—246)



1. A metal working apparatus support, including in combination, a longitudinally extending supporting member having a pair of parallel spaced upright portions and a transverse portion interconnecting said upright portions below their upper ends, and a pair of track forming shafting pieces secured to the upper outer corners of said upright portions so as to provide at each side of said longitudinally extending supporting member opposed upper and lower and opposed inner and outer track defining surfaces on said shafting pieces adapted to be engaged by the wheels of a carriage, all of said track defining surfaces except both inner surfaces being positioned to the outside of said supporting member.

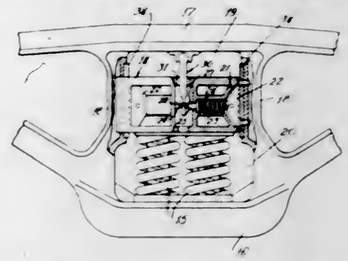
2,660,129

TRUCK DAMPING DEVICE

Cal W. Wulff, Chicago, Ill., assignor to Holland Company, a corporation of Illinois

Application January 6, 1950, Serial No. 137,121
22 Claims. (Cl. 105—197)

1. In a truck, a side frame having a bolster opening, a load-supporting bolster having an end received within said opening, a spring for supporting said bolster end within said opening in a vertical position of equilibrium with reference to said side frame dependent upon the loading of said bolster, a planar face friction shoe carried by said bolster end arranged to engage a flat wear surface on the side frame and dampen oscillations of said bolster away from its equilibrium position, and a variable rate device including an element associated with said side frame



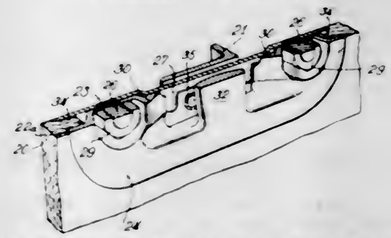
and another element movable with the bolster and interacting with said first element to variably translate vertical movement of the bolster relative to the side frame to a lateral force applied to said friction shoe to thereby vary the pressure of said shoe against said side frame in a non-linear relationship to the loading of the bolster with the greatest pressure being exerted on said shoe when the bolster is adjacent the limit of its travel away from equilibrium.

2,660,130

LADING TIE ANCHORING MEANS AND APPLICATION

Malcolm S. Johnson, Flossmoor, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois

Application December 7, 1951, Serial No. 260,430
3 Claims. (Cl. 105—369)

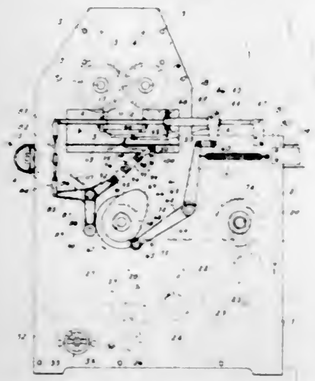


1. A lading tie anchor comprising a substantially flat metallic retainer plate provided with longitudinally spaced, intimately secured, forwardly presented studs; means whereby the plate is intimately secured to the metal posts of a railroad car superstructure; a metallic face plate matching and coextensive with the retainer plate and provided at opposite sides of its vertical median portion and spaced therefrom with partially severed portions and the partially severed metal dished rearwardly toward the retainer plate, the integral portion of the face plate intermediate said spaced apart rearwardly dished portions constituting a wide tie element holding bar, the face plate on its rear side and intermediate the dished portions and the perimeter of the plate having retainer plate contacting surfaces for maintaining a spaced relation between the plates and to enclose the tie element receiving cavity above and beneath said dished surfaces, and means whereby the two plates are secured together.

2,660,131
MACHINE FOR PRODUCING EXTRUDED UNITS

Irwin Elliott, Croton-on-Hudson, N. Y., assignor of one-half to Christopher G. Papalexis and Gregory C. Papalexis, Bronx, N. Y.

Application December 14, 1948, Serial No. 65,215
4 Claims. (Cl. 107—14)

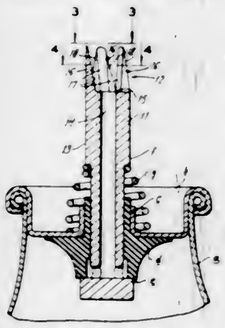


1. In apparatus for producing units of extruded material the combination of a die, means for feeding extrudable material to one side of the die for extrusion therethrough, a movable filamentary cutter on the other side of the die for cutting extruded material into units, means independent of the die for engaging each unit and supporting said unit against the action of the cutter, means for moving said cutter back and forth across the die in a continuous series of cutting and return strokes, spring means operable on the cutter for angularly moving the latter after each cutting stroke in a direction substantially the reverse of that of the material being extruded, said die having an opening on the other side thereof beyond a peripheral edge of a cut extruded unit but within the confines of said other side of the die for receiving said angularly moving cutter, and means in said opening for lubricating the cutter.

2,660,132
DISPENSING TIP FOR GAS-PRESSURE CONTAINERS

Harry Pyenson, University City, Mo., assignor to Development Research, Inc., St. Louis, Mo., a corporation of Missouri

Application March 19, 1951, Serial No. 216,310
6 Claims. (Cl. 107—14)

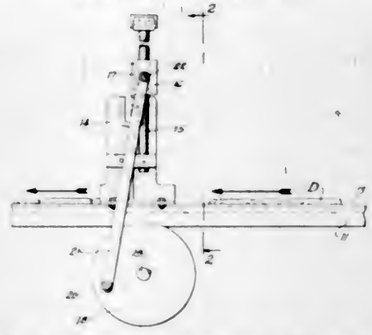


1. A spout for dispensing gas-charged substances in expanded form, comprising a tubular discharge neck having a wall thicker than the radius of its bore, an annular discharge end face extending radially outward from said bore a width at least equal to the radius of the bore and providing space for the radial expansion of such gas-charged substance, and a confectioner's tip having teeth spaced from each other and positioned along the outer margin of said annular face whereby the dispensed substance is molded to a desired decorative form after its expansion is substantially complete.

2,660,133
DOUGH SLICING APPARATUS

Joseph F. Anetsberger, Northbrook, and Frank A. Anetsberger, Chicago, Ill., assignors to Anetsberger Brothers, Inc., Northbrook, Ill., a corporation of Illinois

Application August 13, 1951, Serial No. 241,518
6 Claims. (Cl. 107—21)



3. In dough slicing mechanism for use in conjunction with a dough conveyor belt, a pair of side supports comprising vertical guides adapted for location at opposite sides of the belt, a cross head slidable vertically on the guides, means for reciprocating the cross head, a blade support adapted for attachment to the cross head for vertical reciprocation thereby, a depending vertical blade pivotally attached at the upper edge thereof to said blade support for swinging movement on a horizontal axis, the lower edge of the blade being sharpened and adapted to slice through the dough sheet on the conveyor and to make contact with the moving conveyor at the limit of each downward stroke thereof whereby the blade is swung forwardly about said axis, means imparting rearward swinging movement to the blade to the vertical position during each upstroke thereof, and means for arresting the rearward swinging movement of the blade in vertical position.

2,660,134
PROCESS FOR MANUFACTURING BREAD STICKS

Leandre M. Bertrand, Montreal, Quebec, Canada, assignor to The Grissol Bread Specialties Ltd., Rosemount, Quebec, Canada, a corporation of Canada

Application July 14, 1948, Serial No. 38,622
7 Claims. (Cl. 107—54)

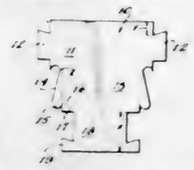


6. A process for preparing bread sticks of low moisture content, comprising, working and dividing new dough, confining the dough in a substantially dead air space to retard fermentation and skin formation, then working the thus treated dough to elongate it, repeating the confinement under substantially the same conditions, then working the dough again to elongate it, and finally baking the elongated dough into bread sticks.

2,660,135
SHINGLE

Herbert Abraham, New York, N. Y., assignor to The Ruberoid Co., New York, N. Y., a corporation of New Jersey

Application January 10, 1950, Serial No. 137,749
2 Claims. (Cl. 108—7)



1. An interlocking flexible shingle that when laid in courses with like shingles provides a covering of at least two thicknesses of material throughout having T-shaped exposure patterns, said shingle having a head portion having cut-outs in the corners of its upper end, a middle portion, and a shank portion having locking tabs at its butt end and shoulders at its upper end, said middle portion having downwardly diverging inclined side edges that terminate in reversely curved ends of semi-circular curvature the lower curved portions of which define nailing tabs through which the nails that fasten the shingles are driven, the upper curved ends each being offset laterally outward with respect to its correlative lower curved end, the inner ends of said lower curved portions at their junction with said shoulders of the shank portion forming locking points with which the locking tabs of the shingles of the next upper course may be engaged and interlocked, the height of the shingle being $3X+Y$ in which **X** represents the height of the shank portion and **Y** the depth of the cut-outs in the upper ends of the head portion.

2,660,136
SHINGLE

Herbert Abraham, New York, N. Y., assignor to The Ruberoid Co., New York, N. Y., a corporation of New Jersey

Application October 16, 1951, Serial No. 251,589
4 Claims. (Cl. 108—7)

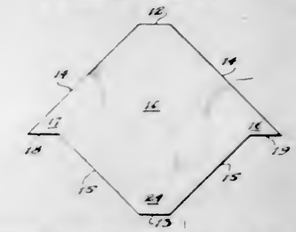


1. A shingle adapted to be laid in interlocked relation with like shingles to form a covering of single-coverage or of double-coverage with hexagonal shaped exposure patterns in either case, said shingle having a single continuous downwardly sloping edge portions along each side, a a locking tab at either side of its lower end, and two sets of slits formed in the sloping side edge portions one set spaced upward from the other, the lower set of slits providing means for interclocking to effect double-coverage and the upper set providing means for interlocking to effect single-coverage.

2,660,137
SHINGLED ROOFING

Herbert Abraham, New York, N. Y., assignor to The Ruberoid Co., New York, N. Y., a corporation of New Jersey

Application May 13, 1952, Serial No. 287,504
4 Claims. (Cl. 108—7)

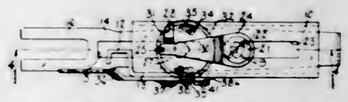


1. A shingled roofing comprising a plurality of shingles forming a covering of staggered hexagonal patterns, each shingle having parallel horizontal upper and lower edges, oblique side edges, and a tab at each side corner, said tabs having horizontal lower edges in alignment with each other, the length of each of said tab edges being the same as that of the upper and lower shingle edges, said shingles being laid in courses with the corner tabs of adjacent ones of a course overlapping each other with their lower edges in registration to align the shingles, the shingles of each next upper course each being laid with its butt overlying the lapped tabs of adjacent shingles of the course below and with its lower edge in registration with the lower edges of said tabs, each shingle being fastened with a double pointed fastener the lower point of which penetrates through the overlapped tabs and the upper portion of a shingle of the next lower course, and the protruding upper point of which fastener penetrates the butt of a shingle of the next upper course and is clinched thereon.

2,660,138
BUTTONHOLE ATTACHMENT FOR SEWING MACHINES

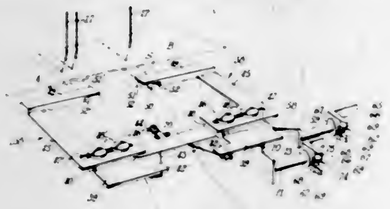
Herbert H. Russell, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut

Application October 14, 1950, Serial No. 190,157
7 Claims. (Cl. 112—77)



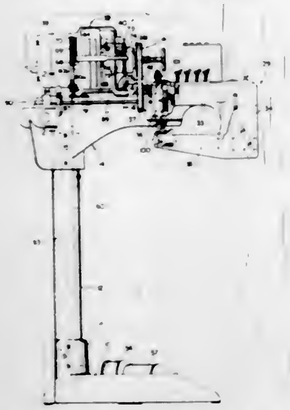
1. A buttonhole attachment for sewing machines, comprising a frame having a base plate, a feed blade carried by the plate for lengthwise reciprocating movement, means for effecting reciprocation of said blade comprising a ratchet wheel mounted on the plate, a fork arm pivoted on the frame and engaged with the ratchet wheel to effect step-by-step rotation of said wheel, a member adjustably connected to said wheel, an arm eccentrically pivoted to said member and pivoted to the feed blade to effect reciprocation of the latter, and means secured to said ratchet wheel to effect lateral movements of said blade.

2,660,139
STRIP-COLLAPSING DEVICE FOR SEWING MACHINES
James E. Ackerman, Devon, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 27, 1951, Serial No. 217,835
9 Claims. (Cl. 112—136)



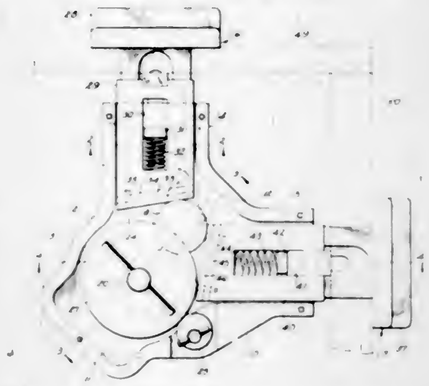
1. A strip-collapsing attachment for sewing machines comprising a supporting plate, means securing said supporting plate to said sewing machine for ready removal and replacement, work-guides including a strip-guide carried by said supporting plate, said plate having elongated slots formed therein transversely of said strip-guide, a pair of slide-blocks arranged in said slots, a strip-engaging member secured at one side of each of said blocks, actuating mechanism carried by said sewing machine for imparting strip collapsing movements to said strip-engaging members, and means secured at the opposite side of each of said blocks disposed in operative relation with said actuating mechanism when said supporting plate is replaced on said sewing machine.

2,660,140
VIBRATION ISOLATING MEANS FOR SEWING UNITS
John G. Attwood, Oak Park, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application May 18, 1950, Serial No. 162,783
11 Claims. (Cl. 112—258)



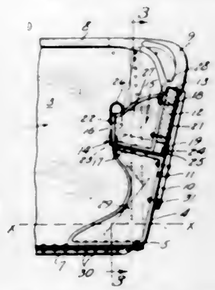
1. In a pedestal mounting for a sewing machine and its driving means which comprises a base, a column extending upwardly from said base, and a laterally extending support member mounted on said column adjacent its upper end, the combination of a rigid plate-like member secured directly to the upper surface of said support member, said plate-like member being rigid throughout, vibration absorbing means interposed between said members, and means for securing the sewing machine and its driving means directly to said plate-like member.

2,660,141
WELDING VISE
James G. Thomas, Cleveland, Ohio
Application February 23, 1950, Serial No. 145,720
3 Claims. (Cl. 113—99)



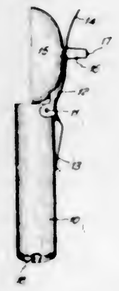
1. In a welding fixture, the combination of a body member, two angularly related fixed jaws attached to said body member, spring retractable jaws mounted in said body and complementing said first named jaws to form vises, each of said retractable jaws having a bearing surface at the inner end thereof forming an acute angle with respect to a line of symmetry between said jaws, a substantially circular sliding cam engaging the bearing surfaces of said retractable jaws, and an axially rotatable driver cam engaging said sliding cam a groove in the body member and a pin projecting from the sliding cam and into the groove for confining the movement of the sliding cam whereby rotation of the driver cam will produce sliding motion of each jaw whatever the position of the remaining jaw.

2,660,142
TRANSOM CONSTRUCTION FOR BOATS
Erich S. Swenson, Minneapolis, Minn., assignor to Flour City Ornamental Iron Co., Minneapolis, Minn., a corporation of Minnesota
Application December 21, 1951, Serial No. 262,713
7 Claims. (Cl. 114—182)



1. A boat hull closed at its rear end by a transom structure; said transom structure defining a water-tight, forwardly projecting, upwardly opening, inboard channel having spaced front and rear walls and a bottom wall, said channel extending transversely between and connecting the opposite side walls of the hull and having its bottom disposed above the bottom of the hull and above the normal water line of the hull, said structure providing a water-return passage from the bottom portion of the channel to the exterior of the hull, and a deflecting lip on the front wall of the channel for reversing the forward flow of water washing over the transom.

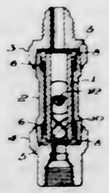
2,660,143
THERMOSTATIC WARNING DEVICE
Lewis Michael Simmons and Adrienne Simmons, Rose Bay, near Sydney, New South Wales, and Henry Dixon Arnott, Sydney, New South Wales, Australia
Application September 25, 1950, Serial No. 186,566
Claims priority, application Australia October 7, 1949
3 Claims. (Cl. 116—102)



1. A thermostatic warning device for use with culinary vessels comprising, in combination, a heat conducting cylindrical receptacle for immersion in liquid to be heated and furnished with means whereby it can be supported conveniently on the rim of the vessel, a curved bimetallic element in the lower portion of said receptacle which changes its curvature suddenly when subjected to a predetermined degree of heat derived from said liquid, a gong supported by the receptacle, and a striker in the form of a rod supported, by said bimetallic element, longitudinally in said receptacle so as to strike the gong when the aforesaid bimetallic element changes its curvature suddenly at or about the aforesaid predetermined degree.

2,660,144
INDICATOR FOR VISUALLY OBSERVING FLOW OF A LIQUID THROUGH A PIPE
Kenneth M. Newcum, Zelienople, Pa., assignor to Remco Incorporated, Zelienople, Pa., a corporation of Pennsylvania
Application October 26, 1951, Serial No. 253,247
3 Claims. (Cl. 116—117)

1. A flow indicator adapted to be positioned in a transparent tube that forms a part of a liquid pipe line, said indicator comprising a flap-support consisting of a resilient wire that is shaped to form a loop of larger normal diameter than the inner diameter of such tube and to have an end pintle portion that extends diametrically across such tube when the indicator is placed in the tube, and a sheet-like flap pivotally borne by said pintle portion, said flap being freely swingable in any position of the tube by the flow of fluid through a tube to a position to indicate



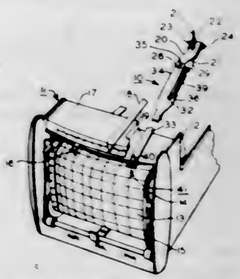
that liquid is flowing, and being freely swingable to another position when liquid is not flowing.

2,660,145
MEMORANDUM PLATE
Georg Odlas, Vienna, Austria
Application February 21, 1952, Serial No. 272,877
Claims priority, application Austria April 21, 1951
1 Claim. (Cl. 116—134)



A memorandum device comprising a plate, a hollow cylindrical beading along at least a portion of the edge of said plate, said beading having a plurality of transverse slots extending through a major portion of the circumference of said beading and terminating adjacent said plate to identify reference indicia on said plate adjacent each said slot, an elongated elastic pintle member disposed eccentrically within said beading adjacent the plate edge portion, and indicators on studs respectively slidable in said slots and pivotally supported by said pintle member, whereby said indicators are normally urged by said elastic pintle member toward the ends of said slots but may be freely swung around said beading due to the elasticity of said pintle member.

2,660,146
ADJUSTABLE SET POINT ARM FOR CONTROL INSTRUMENTS
Hoel L. Bowditch, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application August 30, 1952, Serial No. 307,291
2 Claims. (Cl. 116—136.5)



1. In a control instrument, an index arm assembly for adjustment along a track to provide a

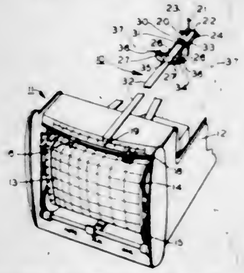
set point in relation to a variable condition, said assembly comprising, in combination, a driven stub, an arm for driving said stub, cooperating pin and slot connection arrangements joining said arm and said stub for straight line sliding movement of said arm with respect to said stub, a spring connecting said arm and said stub between points offset laterally from the longitudinal axis of said assembly to provide a bias on said arm in one direction of said movement and to take up lateral play in said pin and slot arrangements, and an adjustment member for moving said arm unit with respect to an index scale to drive said stub, said adjustment member comprising a roller rotatably mounted on said arm, said roller having a small diameter spring biased for frictional engagement with said track in association with said index scale and with the bias of said engagement provided by said biasing spring, and said roller having a larger diameter for manual rotation of said roller along said track to provide small movements of said arm along said track and for manual bodily sliding movement of said roller on said track to provide substantial movements of said arm along said track.

2,660,147

DETACHABLE INDEX ARM UNIT FOR MEASURING INSTRUMENTS

Hoel L. Bowditch, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts

Application September 2, 1952, Serial No. 307,545
1 Claim. (Cl. 116—136.5)



In a measuring instrument, a two part index arm unit comprising, in combination, a driven stub and an arm detachably secured thereto in a snap fastener arrangement, said stub having a pair of oppositely and laterally extending resilient arms and a connection capstan on each of said arms, and said index arm having a crosspiece secured thereto and capstan receiving configurations on said crosspiece, with said resilient arms biased to hold said capstans in said configurations to provide said snap fastener arrangement.

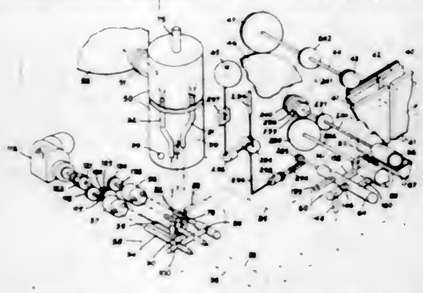
2,660,148

ADHESIVE EXTRUDER FOR BOOKBINDING MACHINES

Robert E. Fogg, Dayton, Ohio, assignor to McCall Corporation, Dayton, Ohio, a corporation of Delaware

Application July 28, 1951, Serial No. 239,093
21 Claims. (Cl. 118—2)

1. Apparatus for applying a fluid adhesive to the backs of successive books in a book binding machine including means for conveying successive said books lengthwise through a work station, comprising means forming a reservoir for maintaining a quantity of said adhesive in fluid condition, means at said work station forming a discharge orifice for said adhesive, means cooperating with said conveying means to guide the backs of successive said books into aligned relation with said orifice to receive adhesive therefrom progressively as said book moves past said orifice, means for conveying said fluid adhesive from said reservoir to said orifice under pressure for pressure discharge through said orifice into contact with said aligned backs of said books, said guiding means and said orifice being proportioned



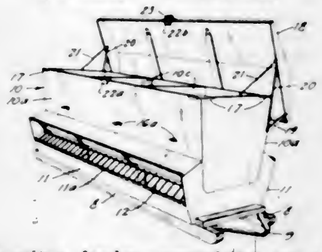
with respect to the width of said books to locate the entire width of the back of each said book in direct communication with said orifice in moving therepast, and yieldable means for maintaining said guide means in pressure engagement with the sides of each said book adjacent the back thereof to limit the area on said book to which said adhesive is applied while maintaining the entire width of the back of said book in direct communication with said orifice for uniform coating thereof with said adhesive.

2,660,149

POULTRY FEEDER

Carl C. Jolly, Owatonna, Minn., assignor to The C. C. Jolly Company, Inc., Owatonna, Minn., a corporation of Minnesota

Application April 19, 1951, Serial No. 221,821
2 Claims. (Cl. 119—53)



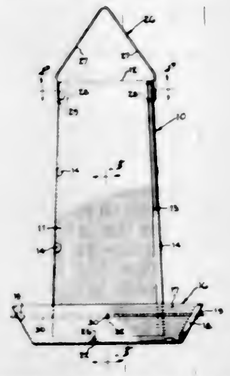
1. A poultry feeder comprising an elongated bin structure having a bottom and upstanding sides, a plurality of elongated strips fixed in opposed relation to the respective sides of said bin structure, each of said strips having a depressed center portion engaging the respective sides and fixed thereto and forming a partition receiving groove on each side of the bin, the edge portions of said strip being thus spaced inwardly a slight distance from the adjacent portion of the side to which the depressed center portion is fixed to form a gate receiving guide on each side of said strip, a partition slidably mounted in said opposed grooves formed by said depressed strip portions to securely hold said partitions against shifting movement, said bin sides terminating a slight distance above the bin bottom, and a gate mounted for vertical movement along said sides with the edge portions thereof slidably received in the guides formed by said strips.

2,660,150

POULTRY FEEDER

George L. Kalb, Middletown, Ohio, assignor to Aeronca Manufacturing Corporation, Middletown, Ohio, a corporation of Ohio

Application December 12, 1952, Serial No. 325,589
1 Claim. (Cl. 119—53)



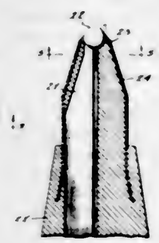
A poultry feeder comprising a hopper having four identical side panels, each side panel tapering from bottom to top, a plurality of tabs extending from one edge of said panel, a flange turned inwardly at right angles from the opposite side edge of said panel, a plurality of slots in the side panel adjacent said flange, said slots complementing said tabs and engaged therewith, a feed pan, said feed pan having a bottom and four side walls, said side walls flaring outwardly from said bottom, an aperture in each of the side walls of the pan and in each of the side panels of the hopper, said apertures being centered with respect to the side edges of the respective walls and panels and lying in a common plane, a pair of rods, said rods being disposed in crossed relationship with each rod traversing the apertures in opposite side walls of the pan and hopper, each rod of the pair having an offset at its center, and the respective offsets engaging one another thereby locking the rods against displacement and locking the hopper against displacement relative to the pan.

2,660,151

WRITING INSTRUMENT

Blanchard D. Smith and David R. Berry, Atlanta, Ga., assignors to Scripto, Inc., a corporation of Georgia

Application April 28, 1948, Serial No. 23,758
2 Claims. (Cl. 120—42.4)



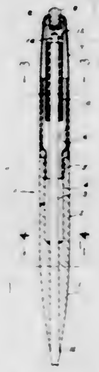
2. A writing instrument of the type incorporating a ball applicator, said writing instrument having a barrel, a concave socket at the writing end of said barrel in which said ball applicator is seated, and a shell member disposed in covering relation at the writing end of said barrel for supporting said concave socket and having the end thereof remote from said writing end embedded in said barrel.

2,660,152

BALL-POINT WRITING INSTRUMENT

Robert W. Randolph, Milton, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin

Application August 13, 1945, Serial No. 610,423
2 Claims. (Cl. 120—42.4)



1. In a ball-point writing instrument, a holder comprising a barrel open at both ends, a cap removably attached to and closing the rearward end of said barrel, abutment means on said barrel for seating said cap in position closing the rearward end of the barrel, an elongate ball-and-cartridge unit including a straight, rigid tube having a writing ball at its forward end, the portion of said tube rearwardly of said ball freely and easily slidable in said barrel and providing a single ink reservoir with an unobstructed interior and having a vent in its rearward portion, said barrel having an axial bore slidably accommodating said unit, and means carried by said cap for releasably gripping the end portion of said unit at a point remote from said writing ball and displaced from said vent and effective to retain said unit in said holder but releasable from said unit to permit withdrawal thereof from the holder, said means being the sole means for retaining said unit in said holder.

2,660,153

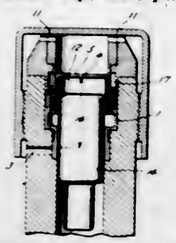
PERCUSSIVE TOOL

Franz Abt, Essen-Margarethenhoehe, Germany, assignor of one-half to Karl Adler, Washington, D. C.

Application October 25, 1950, Serial No. 195,257
Claims priority, application Germany October 28, 1949
4 Claims. (Cl. 121—31)

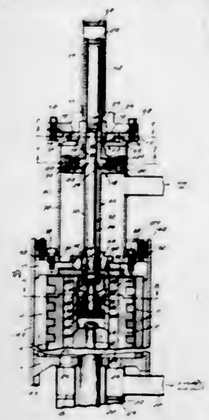
1. In a pneumatic percussive tool having a cylinder, a piston hammer reciprocable therein, and pressure-actuated reciprocable valve means controlled by the movements of the hammer for controlling the admission of operating pressure to the cylinder on opposite sides of the hammer, the combination of a cup-shaped imperforate recoil cap separate from the valve means and slideably mounted at the rearward end of the cylinder for compression of air between said cap and the returning piston hammer, the hammer

being sealingly telescopable within said cap for entrapment of air therebetween in the bowl of said cap, means defining a closed buffer chamber at the rear of said cap, and passageway means



constantly providing communication between said chamber and the operating pressure to thereby constantly subject the rear of said cap to the operating pressure.

2,660,154
EXPANSION ENGINE
Robert W. Hughes, Michigan City, Ind., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 21, 1951, Serial No. 247,731
30 Claims. (Cl. 121—123)



1. In an expansion engine, a cylinder, an end wall for the cylinder and having a port, a closure for the port, a piston having at least one axial passage and reciprocably mounted in the cylinder, a closure for the axial passage, a closure operator for the port closure, another closure operator for the passage closure, detent means associated with the port closure operator to hold it in port-open position, other detent means associated with the passage closure operator to hold it in passage-open position, means to disengage the first-named detent means and close the port, and means to disengage said other detent means and close the passage.

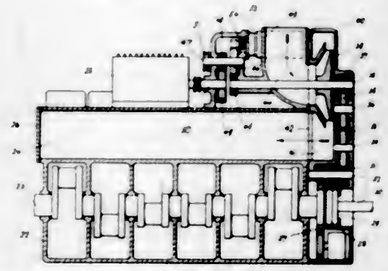
2,660,155
STEAM GENERATING TUBULAR WATER WALL
Edward Corbin Chapman, Lookout Mountain, Tenn., assignor to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware
Application January 12, 1949, Serial No. 70,458
2 Claims. (Cl. 122—6)

1. In a furnace, a water wall having its inner surface exposed for heat transfer and comprising: a plurality of relatively thin-walled tubes arranged in spaced parallel relation in the plane of said wall and each having portions exposed to form part of said inner wall surface; spacing strips extended between and parallel to adjacent tubes and each having edge portions respectively disposed both inwardly and outwardly of the median plane containing the central axes of the pair of tubes lying at each side of the spacing strip, the inner edge of each strip lying close to said median plane and the strip having a minimum thickness of approximately ⅛ of an inch,



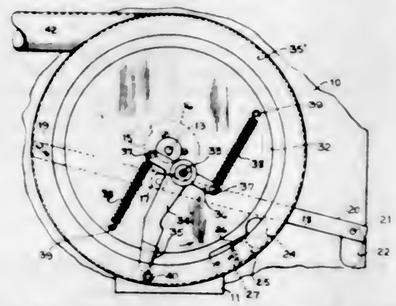
said location of the inner edge and said thickness of the strip cooperating to provide a substantially U-shaped opening for the laying of a weld head; and welding beads in the welding openings uniting adjacent tubes, tube-to-tube, each such bead overlying the inner edge of the spacing strip between a pair of adjacent tubes and having its inner surface lying between said median plane and the plane containing the innermost surfaces of the tubes to cooperate with the exposed portions of the tubes in completing the inner surface of the water wall.

2,660,156
INTERNAL-COMBUSTION ENGINE WITH SCAVENGING AIR BLOWER
Johann Kopf, Adolf Schnürle and Otto Elwert, Stuttgart, Germany; said Kopf and said Elwert assignors to said Schnürle; Gertrud Schnürle, sole heir of said Adolf Schnürle, deceased
Application April 5, 1949, Serial No. 85,492
Claim priority, application Germany October 1, 1948
2 Claims. (Cl. 123—55)



1. In a two-cycle engine having a crankcase, a crankshaft and two banks of cylinders V-arranged on said crankcase and forming an angular space between each other, the combination of a fuel injection pump and scavenging air supply means, said supply means comprising an air receiver extending along said banks and being joined with said crankcase at the bottom of said angular space, a centrifugal blower having an impeller shaft parallel to said crankshaft and extending above said receiver, said blower having an intake conduit and a diffuser, said injection pump being mounted on said receiver within said angular space and being connected with said impeller shaft, blower drive means connecting said impeller shaft with said crankshaft and being disposed immediately adjoining one axial end of the engine, said blower being positioned at the axial end of said space immediately adjacent to said drive means and having said intake conduit located at the axial blower side inwardly of the engine, and said diffuser having an air outlet disposed at the bottom of the diffuser and merging with the space of said receiver.

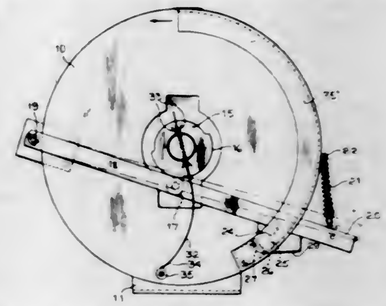
2,660,157
BALL PROJECTOR
Melvin J. Binks, Chicago, Ill., assignor to Republic Patent Corporation, Chicago, Ill., a corporation of Illinois
Application April 25, 1951, Serial No. 222,913
4 Claims. (Cl. 124—7)



1. A ball projector comprising a circular runway, a rotatable member arranged within and concentrically with respect to said runway, means for rotating said member, a striker pivotally carried by said member and rotatable therewith and extending radially therefrom and having an end portion movable through said runway, spring means arranged at right angles with respect to said striker for balancing said striker in one position with respect to said member, said striker at its point of pivotal connection with said member provided with oppositely related laterally extending arms arranged in substantially the same plane with respect to said spring means, a stationary ball seat arranged in said runway, a fixed blocking member arranged in said runway in advance position with respect to said ball seat for engagement with the end of said striker to pivot said arms out of the plane of said spring means to a position at substantially right angles thereto to place said spring means under tension during rotation of said rotatable member and to effect striking of said finger against a ball on said seat by said spring means when said end portion of said striker rides off said blocking member to project said ball from said seat through said runway.

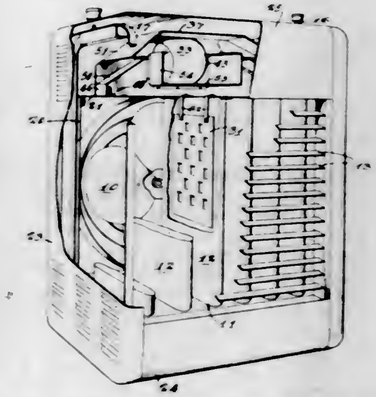
2,660,158
PROJECTING DEVICE
Melvin J. Binks, Chicago, Ill., assignor to Republic Patent Corporation, Chicago, Ill., a corporation of Illinois
Application April 25, 1951, Serial No. 222,914
2 Claims. (Cl. 124—7)

1. A projecting device comprising a mounting panel, a circular runway on said panel, a shaft arranged concentrically with respect to said runway and carried by said panel, means for rotating said shaft, a striker carried by said shaft and rotatable therewith and extending radially therefrom and having an end portion movable through said runway, a stationary ball seat arranged in said runway and adapted to receive and seat a ball in the path of said striker, a fixed blocking pin arranged in said runway in advance position with respect to said ball seat for engagement with the end of said striker to place said striker under tension during rotation of said shaft and to effect striking of said striker against a ball on said seat when said end portion of said striker rides off said blocking member to project said ball from said seat through said runway, said panel having a ball opening at one side of and leading to said runway for successively delivering balls to said



ball seat, and means pivotally carried by said panel for regulating the movement of balls through said opening, said last named means including an eccentric rotatably carried by said shaft and operable on said means to pivot the same into and out of regulating position with respect to said ball delivery opening.

2,660,159
UNIT HEATER WITH DRAFT HOOD
George E. Hughes, Columbus, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio
Application June 30, 1950, Serial No. 171,497
1 Claim. (Cl. 126—110)



A fuel consuming air heater adapted to be suspended in the space to be heated, comprising, in combination, a heat exchanger comprising apertured upper and lower tube sheets with fire tubes extending therebetween and aligned with said apertures, a frame for supporting said heater and adapted to be attached to support means for hanging therefrom, said heat exchanger being secured to said frame for support thereby, a horizontally disposed vent pipe having an inlet terminating above and laterally offset from said fire tubes, burner means for supplying burning fuel to said fire tubes, said burner means being disposed below said lower tube sheet, a sheet metal casing surrounding said burner

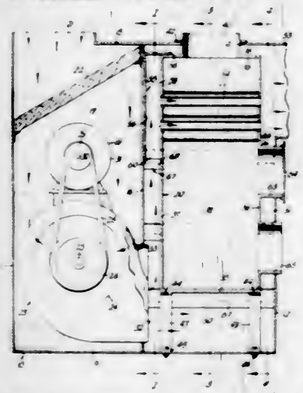
means and said heat exchanger and having rear and front apertures for supply of cold air to said heat exchanger and for passing heated air therefrom, a draft hood adapted to be removably disposed next adjacent the upper tube sheet and comprising sidewalls adapted to form a conduit for combustion gases from the fire tubes, said walls forming a first aperture to receive combustion gases into the hood, the hood having a second aperture for discharge of combustion gases therefrom and into said vent pipe, baffle means between said apertures, and wall means forming a second gas conduit through the hood whereby gases entering the hood through the second gas conduit are deflected into the second aperture by the baffle means, said casing having air apertures next adjacent said burner means for supplying combustion air thereto and said casing forming with sidewalls of said heat exchanger air passages from said air apertures to said second gas conduit whereby air is drawn through said passages and into said draft hood and maintains said casing relatively cool.

2,660,160

FORCED AIR FLOW AIR-HEATING FURNACE

Harry S. Murphy, Buffalo, N. Y.

Application October 12, 1950, Serial No. 189,703
2 Claims. (Cl. 126—110)



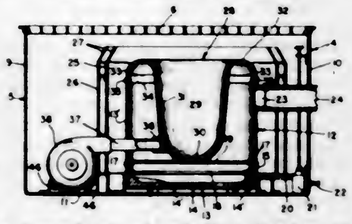
1. A hot air furnace, comprising a vertically elongated sheet metal combustion chamber shell having top and bottom walls and having at least one of its side walls in the form of a vertical generally flat wall, a sheet metal casing surrounding said combustion chamber with top, bottom and side walls in spaced relation to the corresponding walls of said combustion chamber sheli and generally conforming thereto to have a vertical generally flat wall arranged generally parallel and spaced from said vertical generally flat wall of said combustion chamber shell, an air inlet through the lower part of said vertical generally flat wall of said casing and having its lower part in line with the space below the bottom wall of said combustion chamber shell and having its upper part in line with the lower end of said vertical generally flat wall of said combustion chamber whereby air from said air inlet is divided into one stream striking said vertical generally flat wall of said combustion chamber and flowing upwardly between said vertical generally flat walls of said combustion chamber shell and casing and into another stream flowing horizontally into the space under the bottom wall of said combustion chamber shell and thence upwardly between the other side walls of said combustion chamber shell and casing, a blower arranged to discharge air into said air inlet, an air outlet through the upper part of the side wall of said casing opposite the vertical generally flat wall thereof and relieving air from the space between said combustion chamber shell and casing, horizontal spaced tubes extending in line with said air outlet from said vertical generally flat wall of said combustion chamber shell to the opposite side wall thereof and opening to the exterior of said combustion chamber shell, the free area through said tubes being very substantially less than the free area through the space between the side walls of said combustion chamber shell and casing whereby said tubes provide a relatively restricted path for air flow, and a partition forming with said vertical generally flat wall of said combustion chamber shell a hood across the upper part of the space between said vertical generally flat walls of said combustion chamber shell and casing and said hood enclosing the corresponding inlet ends of said tubes, said hood being open toward said air inlet to receive, confine and direct said first stream of air through said tubes at a velocity substantially greater than any part of said second stream of air.

2,660,161

FORCED AIR CIRCULATING HEATER

Robert T. Pearce, Moses Lake, Wash.

Application February 2, 1951, Serial No. 209,054
1 Claim. (Cl. 126—110)



In a forced air circulating heater the combination with a fire box having means for supplying fuel and a flue communicating with said fire box adjacent the top thereof for venting smoke and gases and means for supporting said firebox, of a cover for said fire box, a well in said cover, a downwardly converging conical inner wall forming the sides of said well, a hemispherical wall forming the bottom of said well, whereby said combustion smoke and gases pass upwardly about said well and heat the walls thereof, a horizontally extending sleeve adjacent the bottom of the well and communicating therewith, a motor driven fan positioned outside said fire box, an air duct passing through said fire box and terminating in said sleeve and communicating said fan with said well, a spider on the end of said air duct, an internally threaded sleeve supported by said spider and having the axis thereof extending substantially radially of said hemispherical wall, a baffle plate, a central depending threaded shank on said baffle plate threaded into said threaded sleeve, the peripheral underface of said baffle plate having a bevelled periphery, and a slot in said baffle plate, whereby the baffle plate may be adjusted toward and away from a seat about said sleeve to control the volume of air entering said well.

2,660,162

FLUE SECTION FOR PROVIDING BALANCED DRAFT

Edward J. Artis, Boise, Idaho

Application May 1, 1950, Serial No. 159,349
2 Claims. (Cl. 126—307)

1. A flue section comprising a vertical tubular duct having upper and lower aligned apertures, a

casing secured to the outer periphery of the duct and including a channel member having side flanges secured to the outer periphery of the duct and a web portion joining said flanges and spaced radially outwardly from the duct and positioned over said apertures, the ends of said channel member being closed, whereby gases may enter the casing solely through the apertures, a ver-



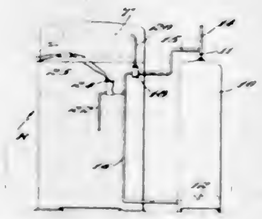
tically inclined concavo-convexed baffle having an upper end fixed to the inner periphery of said duct above the upper aperture, said baffle inclining downwardly and inwardly of the duct from the upper portion of the duct across the upper aperture and terminating above the lower aperture in the duct to deflect gases rising in the duct toward the upper aperture.

2,660,163

HOT-WATER GENERATOR AND STORAGE SYSTEM

Lyman F. Whitney, Boston, William E. Whitney, Belmont, and Daniel F. Comstock, Lincoln, Mass., assignors to Comstock & Wescott, Inc., Cambridge, Mass., a corporation of Massachusetts

Application January 17, 1951, Serial No. 206,501
7 Claims. (Cl. 126—362)



1. A hot water system comprising a hot water generator having a cold water inlet and a hot water outlet, a storage tank having a high temperature duct connected with its upper part and a lower temperature duct connected to its lower part, thermostatic actuating means associated with said generator and operative to initiate admission of water to said cold water inlet in response to a predetermined temperature, a waste line, conduits connecting said hot water outlet and high temperature duct and said lower temperature duct and waste line, and a switching valve connected to one of said conduits and conjointly operative with said thermostatic actuating means automatically to pass hot water from said generator to said high temperature duct and simultaneously pass colder water from said tank through said lower temperature duct to said waste line.

2,660,164

SPHYGMOMANOMETER

Harold J. Hasbrouck, Jr., Teaneck, N. J., assignor to Farrand Optical Co., Inc., a corporation of New York

Application January 27, 1948, Serial No. 4,569
12 Claims. (Cl. 128—2.05)



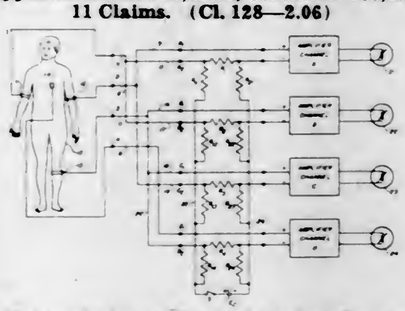
1. An automatic recording sphygmomanometer for producing a graphical representation of auscultatory sounds in terms of blood pressure, comprising an inflatable member adapted to be applied in restraining relation over an artery, means to inflate the member, an elastic extensible bellows communicating with the member and adapted to be distended by the pressure of inflation therewithin, a rigid support for supporting and fixing an end of the bellows, a valve in the bellows having a stem adapted to release to the atmosphere the pressure within the bellows, a rotating cam arranged for rotation about an axis fixed in relation to the fixed end of the bellows, the said cam being adapted to engage the stem to open the valve, a transducer adapted to be actuated by the auscultatory sounds produced in the artery, a recorder adapted to graphically present said sounds on a record medium having a dimension representative of time, and means for establishing an interdependent relation between the cam and the recorder whereby the position along the time dimension of the record medium at which recording instantaneously takes place is a single-valued function of the position of the cam.

2,660,165

ELECTRICAL CALIBRATION SYSTEM

Arthur Miller, Watertown, Mass., assignor to Sanborn Company, Cambridge, Mass., a corporation of Massachusetts

Application June 16, 1950, Serial No. 168,491
11 Claims. (Cl. 128—2.06)



4. In an electrocardiograph system for amplifying the electrical impulses respectively fed to

the input circuits of n amplifying channels from n pairs of terminals interconnecting different parts of the body of a patient with the respective input circuits, a calibration system comprising n resistors, one series-connected in the input circuit of each amplifying channel and each of resistance R_n low compared with the impendance of the input circuit in which it is connected, a calibration source of energy, a pair of resistors corresponding to each series-connected resistor respectively connected to the terminals thereof and of respective resistances R_{1n} and R_{2n} high compared with the impedance of the patient's body between the pair of terminals connected to the input circuit in which the corresponding series-connected resistor is connected and related to the resistance R_n of the corresponding series-connected resistor substantially by the relation that

$$\frac{R_{1n}}{R_{1n}+R_{2n}+R_n}$$

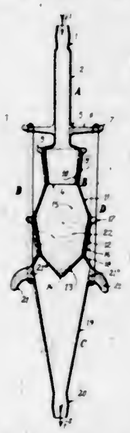
is constant, and means momentarily operative to impress electrical calibration impulses from the calibration source of energy simultaneously through the resistors of the respective pairs of resistors across the series-connected resistors to which they respectively correspond in order simultaneously to impress momentary electrical calibration impulses in the amplifying channels.

2,660,166
NASAL FILTER
Malcolm A. Coleman, Washington, D. C.
Application January 18, 1951, Serial No. 206,702
10 Claims. (Cl. 128—148)



1. A nasal filter having an axial resilient tubular core that is split longitudinally and contains particles of filtering material, a surrounding porous mass of loose fibers and an open-mesh wrapper.

2,660,167
FILTER
Etienne Polacco, Paris, France
Application May 27, 1952, Serial No. 290,231
Claims priority, application France June 2, 1951
9 Claims. (Cl. 128—214)



1. In a filter for liquids injectable in human and animal bodies, said filter being adapted to be interposed between a supply pipe of the liquid to be filtered and a discharge pipe for the filtered liquid, in combination: a central piece of revolution and open from end to end along its axis and adapted to contain a removable filter plug, two connection pieces that are also bodies of revolution and open from end to end along their axes and are adapted to connect said central piece respectively to said supply pipe for the liquid to be filtered and to said discharge pipe of the filtered liquid, the three pieces being provided with interfitting frusto-conical smooth connection portions concentric with said axes, said connection pieces being respectively in interfitting engagement with said central piece at either end thereof by means of said connection portions and at least one elastic device for elastically holding together these pieces in interfitting engagement at their connection portions in a hermetically sealed dismountable coaxial assembly.

2,660,168
SYRINGE CASING AND STOPPERED CYLINDRICAL AMPOULE FOR DIRECT INJECTION
Oswald Pontius, Frankfurt am Main Hochst, Germany, assignor to Farbwerke Hoechst A. G. vormals Meister Lucius und Brüning, Frankfurt am Main, Germany, a company of Germany
Application July 10, 1951, Serial No. 235,926
Claims priority, application Germany July 20, 1950
2 Claims. (Cl. 128—218)



1. In a syringe casing adapted to inclose a cylindrical ampoule of the type wherein a movable stopper of resilient material is provided, said stopper being capable of movement along the cylindrical wall of said ampoule and, by said movement, serving to expel liquid from said syringe, the combination which comprises: a cylindrical ampoule; a movable stopper of resilient material in one end of said ampoule; said stopper being provided with a cavity in the exterior portion thereof; a plunger formed with a plunger head facing said cavity in said stopper, said plunger head being provided with a conical extension which extends from a bearing surface on said plunger head; said conical extension being of greater length and less width at its outer portion than the depth and width, respectively, of said cavity in said stopper and widening conically, at its inner portion as it approaches said bearing surface to a width which exceeds that of said cavity, whereby when said conical extension is introduced into said cavity said stopper is stretched longitudinally so that only its outer exterior portion is pressed as a rim portion against said cylindrical wall of said ampoule, said stopper, except at said rim portion, shrinking away from said cylindrical wall of said ampoule without, however, becoming loose with respect thereto.

2,660,169
DEVICE FOR SUPPORTING AND ACTUATING HYPODERMIC SYRINGES
Henry Malm, New York, N. Y.
Application October 10, 1951, Serial No. 250,615
7 Claims. (Cl. 128—218)

1. A device for supporting and operating syringes, comprising an elongated tubular body, a syringe mounted in said body, the needle end portion of the syringe protruding from one end of the body and the plunger of the syringe being exposed at the other end thereof, a pair of spring tongs one end of which are fixed on the body at opposed sides of the upper end thereof and extending well below the lower end of said body, tensional means for normally urging the tongs in spaced relationship to each other, a pin mov-



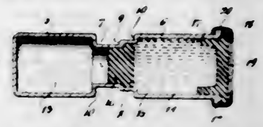
able radially of the lower end portion of the body and adapted to engage the syringe to support the same in raised position, tensional means engaging the syringe to support the syringe tensionally on said pin, and a manually operated member on said body and operatively engaging said pin, whereby actuation thereof will move the pin into inoperative position for releasing the syringe for sudden movement into operative position.

2,660,170
RECTAL SPRAY DEPURATOR BULB WITH SIPHON
Carl H. William Kahl, Phoenix, Ariz.
Application June 27, 1952, Serial No. 295,887
3 Claims. (Cl. 128—231)



1. A rectal spray depurator consisting of an elastic rubber bulb, a flap intake valve closing on an inlet opening in its upper portion, and a resilient, flow-resistant outlet valve in its lower portion, consisting of a truncated conical seat having a centrally positioned outlet hole opening from said bulb, a resilient rubber strip stretched over said seat and attached at each end to said bulb, forming a valve; a rubber cupola having a centrally disposed outlet hole, enclosing said outlet valve and having its edges attached to said bulb; an outlet tube having a curve at its outer end, forming an anal applicator inserted in the outlet hole of said cupola; and an inlet tube attached to said inlet opening of said bulb, adapted for insertion into a water closet tank.

2,660,171
VIAL
Fairleigh S. Dickinson, Jr., Rutherford, N. J.
Application December 7, 1950, Serial No. 199,588
5 Claims. (Cl. 128—272)



5. A vial including in combination a hollow body embracing an inner compartment having its outer end closed, an outer compartment having its outer end open, a neck portion connecting said compartments, said neck portion having a width less than the width of said outer compartment, the inner face of said neck portion presenting an uninterrupted substantially smooth seating surface adjacent said outer compartment, said seating surface embracing a reduced bore portion adjacent said inner compartment, an enlarged bore portion adjacent said outer compartment and an outwardly extending flange between said bore portions, both said bore portions being parallel to the vial axis and said flange being disposed at right angles to said bore portions, said neck portion being adapted to receive a headed stopper, the stem of which extends in sealing relationship with said reduced bore portion and the head of which is to bear in sealing relationship with said flange and enlarged bore portions and said outer compartment adjacent its outer end providing a seat for a further stopper perforable by a cannula through which the pressure in the outer compartment may be reduced to cause an unseating of the first-named stopper and a movement of the latter into said outer compartment.

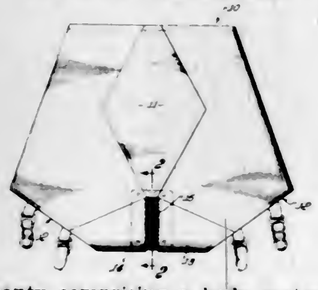
2,660,172
PINLESS DIAPER
Barbara B. Tittle, South Bend, Ind.
Application December 11, 1952, Serial No. 325,300
2 Claims. (Cl. 128—284)



1. A pinless diaper comprising an elongated sheet portions of which are foldable upon themselves along transverse folding lines to form a pad consisting of various layers formed by the portions of said sheet, a pair of resilient members secured to one of said portions of said sheet at opposite corner sections thereof, a pair of first strips each of which has one end secured to one of said resilient members, a second strip having its ends secured to the aforementioned portion of said sheet in spaced relation to said resilient members, first fastening means provided at said first strips, and second fastening means provided at said second strip being adapted for detachably

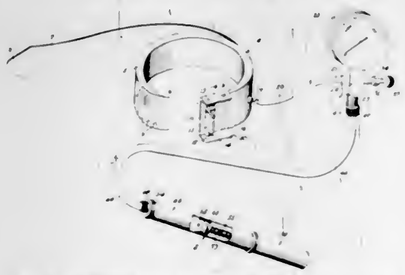
engaging said first fastening means, said pad being foldable intermediate its ends so that the section to which are secured said resilient means overlays the section to which said second strip is secured, said strips and said resilient means together with the panel edge portions to which they are secured and with said fastening means engaging each other constituting the waist band of the diaper, and the other edge portions of said panel defining the leg holes thereof.

2,660,173
DISPOSABLE INSERT PANTY GARMENT
Olga Erteszek, Los Angeles, Calif.
Application February 4, 1952, Serial No. 269,777
5 Claims. (Cl. 128—288)



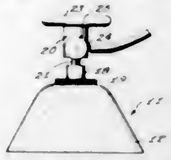
1. A panty comprising a body material having a crotch opening, an insert normally closing said opening and made of a material consisting essentially of a sheet of loose-woven base fabric carrying unwoven cellulose fibers, said sheet having uniform composition throughout and to its edges and said material being at least partially disintegrable in water, and means for detachably securing said insert to the body material.

2,660,174
PNEUMATIC TOURNIQUET
Franklin I. Saemann, Warsaw, Ind.
Application November 9, 1951, Serial No. 255,610
10 Claims. (Cl. 128—327)



1. In a pneumatic tourniquet comprising a cuff tube member, a pump means, a control valve means and conduit means interconnecting said cuff tube member to said control valve means and said control valve means to said pump means, and a pneumatic gage means operatively associated with said control valve means, the improvement in said control valve means including a main body portion and an intersecting cross member affixed thereto, said conduit means including interrelated intersecting passageways in said main body portion and the cross member providing communication between said cuff tube, pump means and gage means, and a valve and a valve seat so arranged adjacent the intersection in said passageways to be operable in providing a positive seal between those portions of the passageways which interconnect the pump means to the cuff member when desired while still providing a direct communication to those portions of said passageways interconnecting said gage and said cuff member.

2,660,175
ELECTROCARDIOGRAPH ELECTRODE
Clyde E. Thrasher, McKinney, and Frank A. Grosz, Marshall, Tex.
Application August 10, 1951, Serial No. 241,322
2 Claims. (Cl. 128—404)



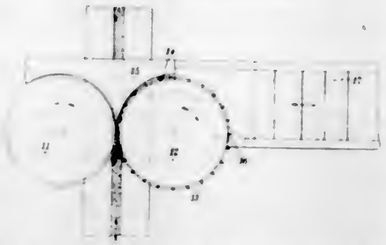
1. A device of the character described comprising a vacuum cup of elastic deformable material, a metal electrode inside said cup, a plurality of depending concentric circular ribs on said electrode, a shank element rigidly secured axially to said electrode and extending through the top of said cup, means sealingly securing said shank element to said cup, and a binding post conductively secured to said shank element externally of said cup.

2,660,176
TAB FOR ADDRESSING MACHINE PLATES
Erich Ostwaldt, Berlin-Hermsdorf, Germany, assignor to Adrema Maschinenbau G. m. b. H., Berlin, Germany
Application March 31, 1949, Serial No. 84,681
9 Claims. (Cl. 129—16.8)



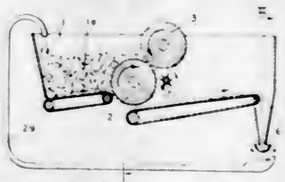
1. An addressing machine tab arrangement comprising an addressing machine printing plate including a rim having aligned slots therein, and a tab comprising a flat, thin main body portion of a width in excess of the extent of at least one slot so as to project beyond the edges thereof, at least one foot portion insertable through one of said slots, said foot portion being integral with the main body portion and of less width than the main body portion so as to provide oppositely disposed shoulders adapted to rest on the rim of the printing plate beyond the end edges of the slot, said foot portion being in the form of a flat split resilient ring co-planar with the main body portion and terminating in a free end and having a width from outer edge to outer edge of slightly greater extent at the area adjacent the shoulders than the length of the slot, the free end of said ring being adjacent one shoulder and the outer edge therof being engageable against the adjacent edge of the slot in the rim when the tab is inserted therethrough whereby said free end is yieldable inwardly on insertion into the slot and the outer edge is resiliently engageable with the end of the slot when the tab is inserted to firmly seat the tab in the slot.

2,660,177
AUTOMATIC TOBACCO FEEDING CIGARETTE MACHINE
Michel Rault, Sceaux, France, assignor to Societe Anonyme Usines Decoufle, Paris, France
Application February 20, 1952, Serial No. 272,551
Claims priority, application France February 17, 1948
5 Claims. (Cl. 131—66)



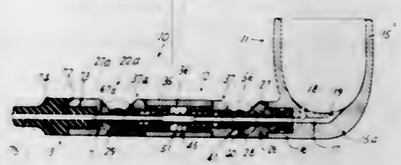
1. In a cigarette making machine, a rod former comprising a channel member, a conveying belt movable over said channel member, guards secured to the upper edges of opposite sides of said channel member having downwardly projecting flanges, said downwardly projecting flanges overlapping the ends of said belt, rotatable supports mounted on opposite sides of said channel member, rotatable cutters fixed to said supports to rotate therewith having overlapping cutting edges directly above the longitudinal axis of said channel member, each cutting member being in slidable contacting relation with the corresponding face of a guard member, a laterally deflecting guide member having arcuate sides positioned between the rotatable supporting members and having one of its arcuate sides substantially in contact with one of these supporting members and having its lower surface in contact with the upper surfaces of the cutting members and having its other arcuate side in lateral spaced relation to the other supporting member, said latter supporting member having teeth projecting from the side surface thereof to facilitate transferring the excess tobacco above the channel away from the location of the channel.

2,660,178
FORMATION OF THE ROLL OF TOBACCO IN CIGARETTE-MAKING MACHINES
Michel Rault, Sceaux, France, assignor to Societe Anonyme Usines Decoufle, Paris, France
Application February 14, 1949, Serial No. 76,294
4 Claims. (Cl. 131—84)



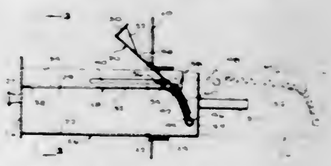
1. The method of forming a tobacco filler of uniform size and consistence for the manufacture of cigarettes in a continuous-filler cigarette machine comprising the steps of feeding tobacco from a distributor in a continuous stream, the tobacco being fed having an amount in cross section which is in excess of that amount in cross section of a finished cigarette, selectively narrowing the stream in a transverse direction, said tobacco stream having its particles of tobacco held down by gravity and other particles of tobacco only throughout the whole length of the stream up to the point where the excess portion is to be removed from the top of the stream and dividing and removing the excess portion from the top of the stream above a predetermined level.

2,660,179
SMOKING PIPE
Joseph A. Smith, New York, N. Y.
Application June 9, 1948, Serial No. 31,909
20 Claims. (Cl. 131—192)



1. A smoking pipe comprising a bowl having an extension, a stem portion, joint members affixed to the ends of said extension and said stem portion and a knuckle joint interconnecting said joint members, said stem portion, knuckle joint, joint members and extension being formed with straight, coaxially, aligned through passages, said knuckle joint comprising a member having an intermediate portion extending transversely of the stem portion, and circular heads at opposite ends of said intermediate portion, said heads being of dovetail cross-section, one of said heads being annular and said joint members having grooves to receive said heads and portions contacting said intermediate portion.

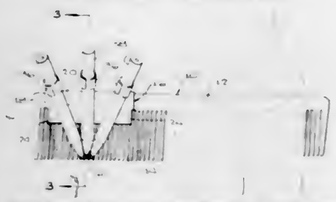
2,660,180
AUTOMATIC EXTINGUISHING AND DISPOSING ASH TRAY FOR AUTOMOBILES
Charles O. Endicott and Wallace W. Houser, Sr., Huntington, Oreg.
Application August 8, 1952, Serial No. 303,228
2 Claims. (Cl. 131—237)



2. An ash tray adapted for mounting on the instrument panel of a vehicle, comprising: an ash drawer slidable into and out of an opening formed in an instrument panel, a flat horizontally disposed ledge mounted in the drawer in spaced relation to the bottom thereof, said ledge having an aperture at that end thereof adjacent the outer end of the drawer, said ledge having upwardly extending flanges at opposite sides thereof, the flanges having slots extending longitudinally of the ledge at the other end of the ledge, a hinge pin having its ends slidably engaged in said slots, said hinge pin extending transversely of the ledge immediately above the plane thereof, a crusher plate swingably connected to said pin and including a cam surface engageable by an edge of said instrument panel opening on inward movement of the drawer to cam the crusher plate in the direction of the ledge for the crushing of a cigarette or like object between the ledge and the crusher plate, the cam surface terminating in a lip engageable by said edge of the instrument

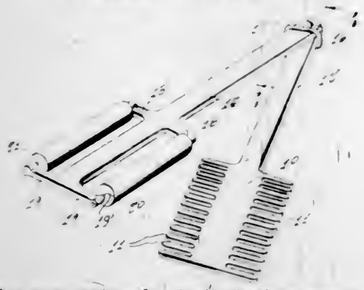
panel opening after movement of the crusher plate toward the ledge to initiate sliding movement of the hinge pin within the slot and said swingable connection therewith of the crusher plate toward the aperture responsive to continued inward movement of the drawer with the lip engaged by said edge, thus to urge the crushed object through said aperture into the drawer, and yielding means operatively connected to the crusher plate and exerting a continuous, yielding pressure thereagainst tending to swing the same away from the ledge in the open position of the drawer.

2,660,181
DEVICE FOR HOLDING EYEBROW OR GRAY HAIR PENCILS
Paul J. Kordish, Mansfield, Ohio
Application March 21, 1952, Serial No. 277,824
5 Claims. (Cl. 132—11)



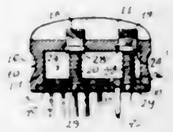
1. A holder for an eyebrow and gray hair-concealing pencil, comprising: a clip adapted for connection to a hair comb having a back piece and spaced teeth, said clip including a plate member, and hook means on said plate member engageable about the back piece and spaced teeth of the comb respectively; and at least one pencil holder carried by the plate of the clip and including pencil-gripping means so arranged relative to the plate of the clip as to support a pencil in angular relation with respect to said plate member for extension of the tip of the pencil into the space between a selected pair of adjacent teeth of the comb.

2,660,182
APPARATUS FOR HAIR DYEING
Fred Kaul, Buenos Aires, Argentina
Application August 6, 1952, Serial No. 302,861
5 Claims. (Cl. 132—12)



1. An apparatus for hair-dyeing comprising a plate, said plate having teeth along each longitudinal edge thereof, an elongated handle secured to said plate, said handle at the end remote from said plate having an opening, a second elongated handle, said second elongated handle being substantially equal in length to the combined lengths of said plate and said first handle and being further adapted to coincide with said plate and first handle, said second handle having an opening at one end in alignment with said opening in said first handle, means located within said aligned holes for pivotally securing said first and second handles together whereby said first and second handles may be opened and closed in a fan-wise manner, means surrounding the said first and second handles for holding the latter in closed position, and a pair of rolls rotatably mounted on said second handle at the end remote from said opening therein, said rolls being adapted to coincide with said teeth of said plate when said handles are in closed position, said rolls being formed of an absorbent material whereby to absorb dyestuff.

2,660,183
COMBINATION BRUSH AND COMB
Alfons Grüring, Montreal, Quebec, Canada, assignor to Edouard Gohner, Montreal, Quebec, Canada
Application January 23, 1952, Serial No. 267,856
6 Claims. (Cl. 132—15)



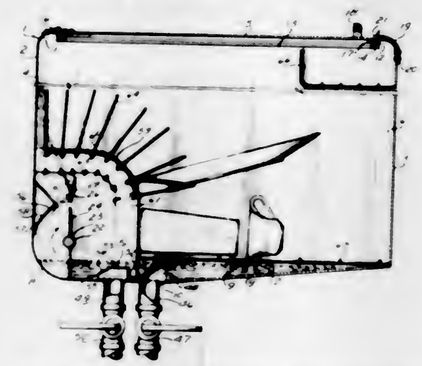
1. A toilet article having retractable cleaning elements comprising, a handle body having a top portion, a base portion, and an internal recess extending inwardly from said base portion, a cover plate mounted on said handle base portion so as to cover said internal recess and having therein a plurality of spaced apart openings, a supporting plate slidably mounted within said handle body recess, a plurallty of cleaning elements mounted on said supporting plate in spaced apart relationship so as to extend outwardly therefrom with the outer ends of each of said elements slidably fitting in one of said cover plate openings, a control screw member rotatably mounted in said handle top portion and having a portion extending exteriorly of said handle top portion and a threaded portion extending within said handle recess threadably engaged with said supporting plate, whereby said cleaning elements may be extended through said cover plate openings to beyond said handle base portion and retracted within said handle body internal recess.

2,660,184
CLIP FOR CONTOURED HAIR
Frances S. Waggener, Davis, Calif.
Application November 28, 1952, Serial No. 322,880
4 Claims. (Cl. 132—46)



1. A clip for holding hair in a predetermined form comprising a resilient open frame having a finger grip member, said finger grip member being divided at one end thereof into a pair of resilient strip clamp members bent upon themselves towards the opposite end of the finger grip member, said clamp strip members being relatively spaced providing resilient clamp means in a plane perpendicular to the plane of the finger grip member, the fingergrip member overlying the center line of the relatively spaced clamp members, and the opposite end of the finger grip member extending through the plane of the clamp members and being divided into a pair of relative spaced prong members in a plane underlying and substantially paralleling the plane of the clamp members, said clamp members and said prong members extending in opposite directions relatively from their respective connections to the finger grip member.

2,660,185
DISHWASHING MACHINE
Lewis A. James and Duane A. James, Independence, Kans.
Application May 19, 1949, Serial No. 94,058
2 Claims. (Cl. 134—183)



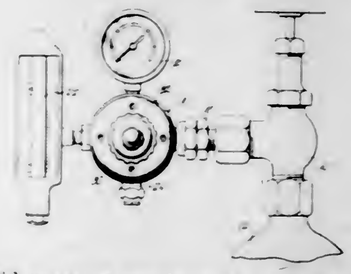
1. An impeller and deflector structure for use in a dishwashing machine having a housing and a sump for collecting liquid comprising, an impeller having a plurality of radially arranged blades journalled in the housing above the sump with the blades being of such lengths to dip into the liquid in the sump, an arcuate member coextensive and coaxial with the impeller and acting as an extension from the sump upwardly in the direction of rotation of the impeller and adjacent the periphery thereof, said arcuate member terminating in a tangential portion for directing the discharge of liquid moved by the impeller in a relatively flat tangential stream, an elongated baffle parallel and spaced from the impeller and mounted to rotate on an axis longitudinally of said baffle and midway the width thereof whereby said baffle has oppositely directed vanes, said axis of rotation of the baffle being above and extending longitudinally of the impeller, said axis of rotation of the baffle being substantially in the plane of the flat stream of liquid from the arcuate member and perpendicular to the direction of said stream whereby said discharge strikes the baffle substantially along said axis of rotation, means for rotating the impeller to move liquid from the sump and effect discharge of same against the baffle, and means operated in response to rotation of the impeller for rotating the baffle by increments in the same direction as the impeller to deflect the discharge of liquid and cause same to sweep the remainder of the housing.

2,660,186
SHADE-PRODUCING APPARATUS
Edward W. Marshall and Frances V. Marshall, Weston, Mass.
Application May 2, 1950, Serial No. 159,538
2 Claims. (Cl. 135—5)

1. Apparatus for producing shade comprising a pair of pointed poles adapted to be thrust into the ground, a roll, a sheet of fabric wound upon the roll, a link member pivoted to the top portion of each pole, said link members supporting journals for the roll and permitting the poles to be disposed parallel to the roll, each pole comprising a pointed extension linked thereto to permit disposal of the extension parallel to the pole, and a sleeve sliding on the pole and movable over the joint between the pole and the extension to produce a single rigid pole.



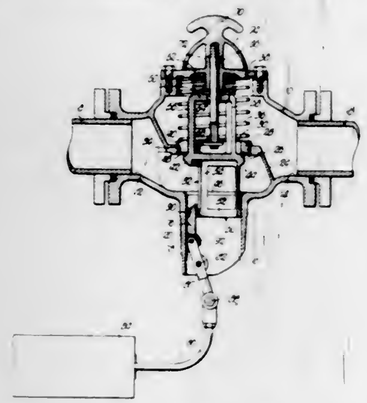
2,660,187
FLUID PRESSURE REGULATOR STRUCTURE
Charles H. Welty, Kansas City, Mo., and George L. Hammon, Oakland, Calif., assignors to Puritan Compressed Gas Corporation, Kansas City, Mo., a corporation of Missouri
Application March 29, 1950, Serial No. 152,601
1 Claim. (Cl. 137—69)



A fluid pressure regulator for controlling the flow of oxygen from a source of supply to a discharge line, said regulator comprising the combination of a hollow, cup-shaped body having external threads on the annular side wall, and openings formed through the side wall through which openings the interior of the body is placed into communication with a source of oxygen supply, a flow-meter, a gauge and an outlet nozzle respectively; a flexible diaphragm covering the open end of said cup-shaped body and having a flanged, marginal edge thereon and overhanging the edge of said body; a ring bearing against said diaphragm and formed to engage that portion thereof overlying the edge of said body; an internally threaded, cup-shaped cap in telescoped relation with the cup-shaped body with the screw threads of said body and said cap in interengagement, said cup-shaped cap having an inwardly directed annular flange spaced from the end wall thereof, the length of the interengaged threads of the body and the cap being great enough to permit moving the said flange against the ring to exert holding force upon that part of the diaphragm disposed between the ring and the edge of said cup-shaped body; a plurality of threaded openings formed through the flange; a threaded set-screw mounted in each opening of said flange respectively and movable by turning in one direction against the ring, whereby to supplement the pressure of the flange of the cap on the diaphragm in holding the latter in place; a series of openings in said cap, in alignment with said set-

screws respectively and in communication with the interior of the cap whereby to permit escape of oxygen in event the said diaphragm breaks; and manually adjustable means carried by the end wall of the cap for holding the central portion of the diaphragm in the desired position when the annular flange is against said ring.

2,660,188
AUTOMATIC TANK VALVE FOR FLOW LINES
Joseph A. McCartney, Baxter Springs, Kans., assignor, by mesne assignments, to McCartney Engineering & Research Corporation, Inc., Baxter Springs, Kans., a corporation
Application May 12, 1952, Serial No. 287,320
2 Claims. (Cl. 137—122)



1. Valve structure comprising a hollow body having an inlet port in one side thereof, an outlet port in the opposite side thereof, an outlet tube depending from the bottom thereof, and a valve seat adjacent the tube; a partition in the body between said ports having a perforation; a vertically reciprocable ring in said perforation above the tube and aligned therewith; a shoulder on the ring overlying the partition for limiting the extent of downward movement thereof; a spring disposed in the body in overlying engagement with the ring for holding the same biased toward the partition; a vertically reciprocable valve having a head alternately engageable with said ring and said seat and provided with an upstanding guide element slidable in the ring and a depending guide member slidable in the tube; a spring in the body between the guide element and the top of the body for holding the head biased toward the seat; a releasable latch in the tube and engageable with said member for holding the head in engagement with the ring; a float operably connected with the latch for releasing the same; and a vertically reciprocable actuating stem extending through said top of the body for lifting the valve to move the head against the ring.

2,660,189
PROTECTOR VALVE
Bernard MacDonald, New Glasgow, Nova Scotia
Application September 28, 1948, Serial No. 51,533
Claims priority, application Canada
August 14, 1948
1 Claim. (Cl. 137—198)

An apparatus for regulating the connection between evacuating equipment and a space to be evacuated comprising a hollow cylindrical member the ends of which are partially closed by plates welded or otherwise secured thereto, each plate having a central aperture, the said aperture in one of said plates being connected by means of a pipe to the said evacuating equipment, the other of said apertures in the other said plate being connected to the space to be evacuated, the interior of said hollow cylindrical member being divided unequally into an upper and a lower chamber by a circular plate arranged at right angles to the axis of the cylinder and being hermetically sealed to the cylinder walls along its circumference, said plate having a central aperture and a plurality of secondary apertures spaced about and close to said central aperture to provide a means of communication between the said two chambers, a second circular

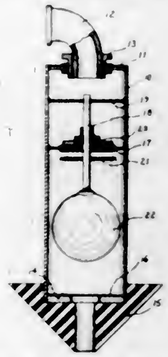
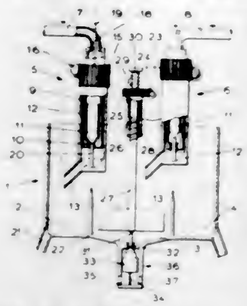


plate spaced from said first plate and lying in the upper chamber having a central aperture aligned with the central aperture in said first mentioned plate and a plurality of further apertures to provide unrestricted passage of fluid therethrough, a float in said lower chamber having a rod extending from it and passing through the central apertures of both said plates, a disc secured to said shaft at right angles to the axis of said shaft said disc being of a diameter sufficiently great to cover said secondary apertures when lying on said first circular plate, a similar disc secured to said shaft below said first circular plate and spaced therefrom, all of said above mentioned parts being inaccessible from the exterior of the chamber and incapable of being acted upon by an exterior force.

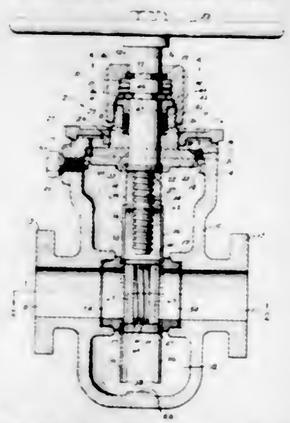
2,660,190
AUTOMATIC BLENDING DEVICE FOR LIQUIDS
Alfred Blondel, Paris, France
Application December 1, 1949, Serial No. 130,551
Claims priority, application France
December 7, 1948
11 Claims. (Cl. 137—313)

1. Automatic device for mixing liquids in variable amounts, comprising in combination a plurality of discharge valves set in discharge position by rotation through a given angle; means supplying them respectively with the liquids to be blended; a mixing tank located under said valves when in discharge position, the outlet members of said valves are moved into a position over the said tank to discharge thereinto when the valves are opened, and are moved out of such discharge position over the mixing tank as the valves are closed, said outlet members being then moved into a position over two receptacles connected to the source of liquid, wherein any drop of liquid that still might flow out from the closed valves will be recovered and fed back to the source of liquid, the said two receptacles being oppositely arranged adjacent to the said mixing tank; electromagnetic means for rotating said valves, a control mechanism, connections connecting the electromagnetic means with the control mecha-



nism, a source of electrical energy, connections connecting the source with the control mechanism and the electromagnetic means, means enabling the control mechanism to energize the said electromagnetic means for each one of its operative cycles.

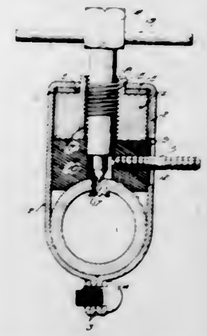
2,660,191
GATE VALVE
Alexander S. Volpin, Houston, Tex.
Application December 20, 1948, Serial No. 66,260
15 Claims. (Cl. 137—315)



13. A closure for an opening in a pressure vessel, comprising, a closure member insertible into said vessel through said opening, a sealing ring disposed between axially and annularly spaced concentric sealing surfaces on said closure member and said vessel and compressible therebetween by outward pressure of said closure member, the contacting faces of said ring and said surfaces being provided with one or more annular projections, and means connected to the closure member for urging the parts of said closure member toward said opening.

2,660,192
SADDLE VALVE
Edwin J. Hunter, Riverside, Calif.
Application November 22, 1952, Serial No. 322,119
5 Claims. (Cl. 137—318)

1. A saddle valve comprising: a body block; a seal block of yieldable material; means for compressing the seal block between said body block and a pipe to form a sealing connection between said sealing block and said pipe; said body block having a screwthreaded bore and said seal block having an alined bore and a lateral outlet port;



and a valve and penetrating tool including a stem screwthreaded in the body block bore, sealingly fitting said seal block bore, and terminating in a pointed end adapted to be forced through said pipe wall.

2,660,193
LIQUID LEVEL CONTROL
Angus F. Hanney, Norwood, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application August 5, 1949, Serial No. 108,697
1 Claim. (Cl. 137—387)



In combination, in a system of the character described, a chambered container for liquid, a liquid supply pipe communicating therewith and provided with a normally closed control valve, a solenoid having a movable armature adapted, when said solenoid is energized to become effective on said valve to cause opening movement thereof, electrical circuit means which, when closed, energizes said solenoid, and means for deenergizing said solenoid by opening said circuit comprising a pipe communicating at one end with a source of gas under pressure and having its opposite end open at a low level in said container, a pressure operated prime mover consisting of an expansible bellows communicating with said pipe intermediate its ends and variably actuated in accordance with variations in the head of liquid in said container above the open end of said pipe, a normally closed switch in said circuit, a yieldable motion transmitting member having one portion adjacent said switch and another portion adjacent said bellows, said motion transmitting means consisting of a rotatable turret carrying a plurality of plungers, any one of said plungers being effective individually to actuate said switch when rotated to registry with said switch and with said bellows, whereby expanding motion of said bellows moves a plunger in said motion transmitting member to abut said switch and cause opening movement thereof so as to break said

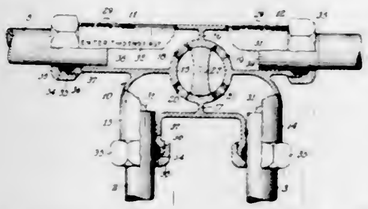
circuit, each said plunger being provided with spring means normally biasing the plunger away from said switch, the spring tension for each plunger differing from that of the other plungers for preadjustably varying the resistance to motion transmission of said motion transmitting member while the pressure from said gas source remains constant, said pressure being sufficient to prevent entry of liquid into the end of said pipe in said container.

2,660,194
EXPANDED CELLULAR PLASTIC FLOTATION BODY
John J. Hoffman, South Bend, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application August 9, 1952, Serial No. 303,630
10 Claims. (Cl. 137—452)



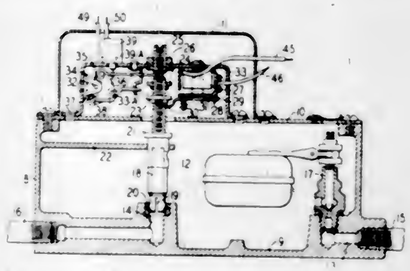
4. A flotation block comprising in combination a core of expanded cellular polystyrene resin and a relatively thin shell of a tough expanded cellular material bonded to the core, said shell being formed of a mixture of 50 to 80 per cent of a thermoplastic resin and correspondingly from 50 to 20 per cent of a rubbery material compatible with said resin.

2,660,195
MULTIPLE VALVE
Roger E. Risley and Howard L. Hoke, Bradford, Pa., assignors to Dresser Industries, Inc., Cleveland, Ohio, a corporation of Pennsylvania
Application August 19, 1949, Serial No. 111,110
8 Claims. (Cl. 137—599.1)



1. A multiple valve for connecting a detour to a main line for a water softener installation and the like and adapted to be installed between two opposed ends of said main line from between which a section of predetermined length has been removed, comprising a body portion consisting of a straight pipe section, a valve chamber located eccentrically with respect to the ends of said pipe section, dividing said section into two separate parts to form a short fitting end and a longer main fitting end and preventing flow between said fitting ends except through said valve chamber, two side fitting ends connected to said valve chamber, said chamber opening with a port into each of said four fitting ends, a rotary plug mounted in said valve chamber, said plug having portions cut away from its body to form passageways through said chamber cooperating with said four ports to permit selective connection of said two main fitting ends and each main fitting end to one side fitting end depending upon the position of the plug, the portion of said plug body between said passageways having a width at least as great as the diameter of said ports whereby to close a port communicating with one of said side fitting ends and a port communicating with one of said main fitting ends when placed in alignment therewith; thereby permitting the interruption of all communication among said fitting ends, indicia on said straight pipe section indicating the length of said section of predetermined length of the main line, a marking on said longer main fitting end to indicate that this end is to be placed first around one of the cut ends of the main pipe line, said longer fitting end having a length which permits said pipe section, when fully entered, to be swung into alignment with said main line and thereupon said short main fitting end to be moved over the other cut end of the main pipe line until both main fitting ends surround the main pipe, a pipe stop projecting from the inner wall of said short main fitting end, and plain end pipe coupling means on each of said four fitting ends comprising an annular gasket, a gasket retainer cup and a nut threaded onto each fitting end and engaging said retainer to press said gasket into sealing engagement with the fitting end and with the outer wall of the pipe end introduced therein.

2,660,196
ELECTRICAL FUEL FEED CONTROL
John W. Miller, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application March 29, 1946, Serial No. 658,134
2 Claims. (Cl. 137—728)

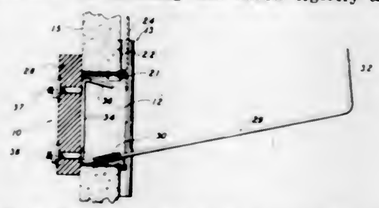


1. A fuel feed control comprising: a liquid fuel supply chamber provided with an outlet opening, an adjustable metering valve associated with said outlet opening; means for moving said valve to regulate the flow of fuel through said outlet opening including an electric motor; and means directly acting on the valve structure for limiting the range of movement of said valve under the influence of said motor including a second electric motor; said means being adapted to limit the movement of the valve in one direction when said second motor is energized and to limit the movement of the valve in the other direction when the second motor is de-energized.

2,660,197
PLUG
Clifford D. Jellison, Upland, Calif.
Application July 28, 1950, Serial No. 176,364
7 Claims. (Cl. 137—735)

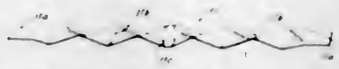
1. In a plug for an irrigation gate having an orifice extending through the wall of a conduit, the combination which comprises a resilient block of relatively soft material having a cross section

larger than that of the orifice and adapted to be pushed therethrough from the outside of the conduit, a handle fastened to and extending transversely of the block and longer than the orifice, means for holding the block tightly against



the inside wall of the conduit around the mouth of the orifice and a stop fastened to and extending transversely to the handle near the block for engaging the inside wall of the conduit when the handle is turned on its axis.

2,660,198
HOT WATER TANK FLUE BAFFLE
Clarence H. Morrow, Shaker Heights, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio
Application October 10, 1951, Serial No. 250,695
7 Claims. (Cl. 138—38)



1. A baffle comprising a strip having opposite ends and having over substantially its whole length, its longitudinal edges alternately bent downwardly and upwardly to provide high and low points, the low point on one side being opposite the high point on the other, whereby said baffle is rigid and resists bending, and a bendable portion intermediate the ends of said strip whereby said strip may be bent to reduce the distance between said opposite ends.

2,660,199
REINFORCED CONCRETE CONDUIT
Gustaf A. Montgomery, Buenos Aires, Argentina
Application May 1, 1947, Serial No. 745,198
4 Claims. (Cl. 138—84)



1. A metal reinforcing skeleton for concrete pipe sections comprising spaced end collars, handling lugs on the outer periphery of the collars adjacent their outer edges, bars extending between the collars and secured to their peripheries adjacent their inner edges, and a spiral wire extending between the collars in contact with and connected to said bars, and a clamp composed of separable members enclosing said handling lugs, said clamp having recesses receiving said handling lugs.

2,660,200
UTILITY SERVICE CLAMP
William Spencer Corey, Tujunga, Calif.
Application July 19, 1949, Serial No. 105,567
4 Claims. (Cl. 138—99)

2. A clamp for a conduit comprising two arcuate members inter-engageable freely to encom-

pass the conduit, one of the members having laterally projecting ears lodging within recesses of the other member and made with bosses rising from said ears to ride against the surfaces of said recesses thereby correctly to space one member relative to the other, there being a centrally located recess sunk into the inner arcu-



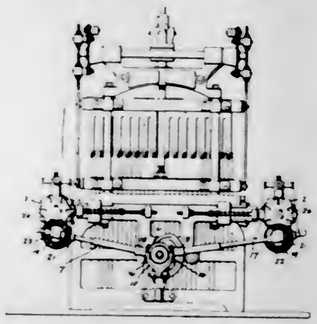
ate surface of said first named member, a resilient annular gasket seated in said recess, and strips of material insertable between the underside of said ears and the inner surfaces of said recesses to lock the members firmly together about the conduit thereby to cause the conduit to engage and lightly to compress said gasket.

2,660,201
JAW HOLDER FOR GRIPPER SHUTTLE LOOMS
Nicholas P. Darash, Cleveland, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application January 8, 1951, Serial No. 204,867
19 Claims. (Cl. 139—125)



1. A shuttle for looms comprising a body having generally parallel top and bottom portions, one end of said body being open, a gripper in said body comprising a yoke portion, spaced arms extending from said yoke portion to form jaws, means securing said gripper portion to said body, and means attached to said gripper arms for constraining arms which become separated from the yoke portion.

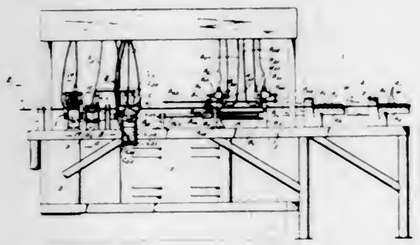
2,660,202
JACQUARD
Joseph Ashworth and Albert Firth, Bradford, England, assignors to John T. Hardaker, Limited, Bradford, England, a British company
Application March 27, 1952, Serial No. 278,942
11 Claims. (Cl. 139—329)



1. A double lift double cylinder jacquard including a pair of rotatable jacquard cylinders, driving and mounting means for the two jacquard

cylinders, including a substantially central main driving shaft, a pair of shafts driven from said main shaft, said driven shafts being changeable in their position and effective length to allow adjustment of driving and mounting units between said driven shafts and the jacquard cylinders.

2,660,203
MACHINE FOR MAKING PREFABRICATED STEEL STRUCTURAL MEMBERS
Otto Howard Lucy, Whittier, Calif., assignor, by mesne assignments, to Herman Robert Triplett, Whittier, Calif.
Application May 13, 1949, Serial No. 93,051
3 Claims. (Cl. 140—112)



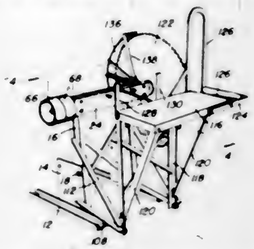
3. In a machine arranged to intermittently move a pair of wires in a longitudinal path and a third wire in a relatively right angular path from separate sources to a common welding position: a shearing unit, transfer means for feeding uniform sections of said third wire from said shearing unit to a predetermined transfer position, a welding unit disposed in the paths of said pair of wires and of said sections, and a unit for delivering the sections of said third wire in single file and in succession from said transfer position and for depositing said sections in position in the welding unit between the longitudinal wires, to provide a fabricated building member and connections between said units and a source of power for effecting their operation in sequence, said transfer means including a laterally shiftable carrier, said delivery unit including a tube offset from the plane of said wire and positioned ahead of said shearing unit, and fluid operated means for shifting said carrier between shearing and transfer positions and for impelling the cut sections from sheared position to position for delivery to welding position, in succession, said carrier including a holder for the cut sections and disposed in a plane offset from the welding unit, and a delivery unit arranged to receive and discharge said sections to the welding unit and to deposit said sections crosswise of and in the common plane of said pair of wires whereby upon actuation of the welding unit said sections will be butt welded to said pair of wires at uniformly spaced points.

2,660,204
ADJUSTABLE CHAIN SAW BAR
Gustaf H. Rosenboom, Kalama, Wash.
Application March 11, 1952, Serial No. 275,913
5 Claims. (Cl. 143—32)



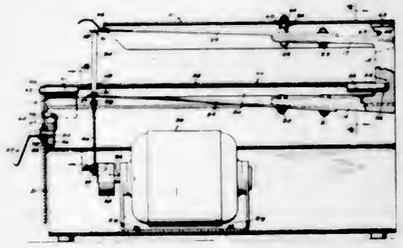
1. A saw bar comprised of two elongated plates joined in contact along a median line and spaced to admit the shanks of chain saw teeth about the periphery thereof and means for varying the spacing of the outer edges of said plates.

2,660,205
COMBINATION ARBOR AND SUPPORT FOR POWER-DRIVEN ROTARY TOOLS
Harry G. Yetter, Colchester, Ill.
Application November 18, 1948, Serial No. 60,812
8 Claims. (Cl. 143—58)



7. A combination arbor comprising an upright support, an arbor housing mounted on said support, said housing comprising a pair of horizontally disposed channel members opening towards each other, means connecting said channels in spaced relation to provide a pair of attachment receiving slots disposed on upper and lower sides of the housing, bearings supported by said connecting means, and an arbor journaled in said bearings, a saw blade on said arbor, a saw table top having a slot receiving said blade, a pair of brace members connected terminally to said table top and to the lower part of said support, and a depending flange on said table top spaced from said brace members engaged in the upper one of said slots in the housing and securing said table top to said housing.

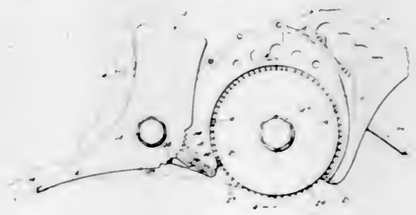
2,660,206
JIG SAW
Dan D. Beebe, Seattle, Wash.
Application March 12, 1949, Serial No. 81,187
9 Claims. (Cl. 143—73)



1. In a jig-saw, an apertured work-supporting table swivel-mounted to admit of being tilted in either direction from a normal horizontal means through an approximate quarter circle of total movement, a saw-blade received through said aperture of the table and guidably supported for vertical reciprocatory movement, an electric motor located below the table and operatively interconnected with the blade for reciprocally driving the latter, and a member stamped from a single piece of sheet metal to produce a housing boxing in the motor along the bottom and both sides and serving as a supporting base for the swivel-mounted table, said sheet metal base

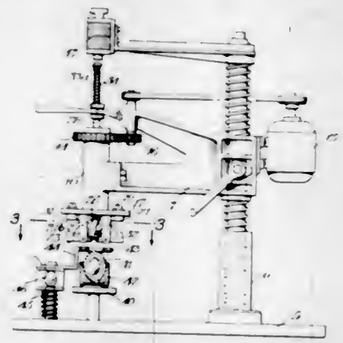
member, considered in end elevation, having a pentagonal shape suggesting the outline of a gable-roofed house the ridge line of which lies in the perpendicular plane occupied by the swivel axis of the table and is open to the front and rear and the table has a pendant tongue at the front end thereof which overlies and serves as a closure for the open front of the base member.

2,660,207
HAND-GUIDED MOTOR-DRIVEN BARK REMOVING PLOW
Lester E. Phillips, Cazadero, Calif., assignor of one-half to James C. Hamilton, Santa Rosa, Calif.
Application November 13, 1951, Serial No. 255,975
7 Claims. (Cl. 144—208)



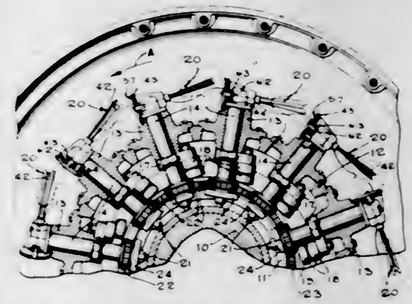
6. A log peeling machine comprising a motor casing, a motor driven shaft mounted within and transversely of said machine, traction wheels journalled on said casing and driven by said shaft, operating hand grips located on said casing and having motor control means adjacent to said handles, a plow member having a concave front wall and having side skirts, said plow skirts being pivoted to said casing, said front wall having a knife-like lower edge, and means for supplying motive power to said motor.

2,660,208
PITTING STRUCTURE
Lynn B. Williams, Berkeley, and Joseph C. Calkins, Bolinas, Calif.; said Calkins assignor to said Williams
Application March 11, 1950, Serial No. 149,155
7 Claims. (Cl. 146—18)



1. A pitter comprising a member for supporting a fruit in oriented position with respect to its longitudinal axis, a pitting structure mounted for rotation about an axis aligned with said longitudinal axis and including a pair of oppositely disposed spoon-shaped pitting knives mounted for pivotal movement on said structure about respective parallel axes extending transversely of said axis of rotation and symmetrically arranged with respect thereto, the radius of said knives from their respective axes corresponding substantially to the radius of curvature of a fruit pit along its length, means for rotating said pitting structure, means for effecting relative movement of said knives and said support along said first-named axis to cause said knives to enter a fruit in said support during rotation of said pitting structure, means for effecting pivotal movement of the knives to close over the pit and cut the pit from the fruit, and means for effecting withdrawing movement of said knives from the fruit with the pit held between said knives.

2,660,209
BUTT DRIVE MECHANISM FOR PEAR PEELING MACHINES
William de Back, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application September 25, 1950, Serial No. 186,561
8 Claims. (Cl. 146—43)



6. In a fruit preparation machine having a plurality of stemming tubes mounted in spaced circumferential relation on a rotary turret with the fruit-impaling portions of the tubes trailing relative to the direction of turret rotation and with the tubes arranged for individual driven rotation in like directions, a butt drive mechanism associated with each tube and comprising a rotary driving member, means interconnecting said member and the associated stemming tube to rotate said member, a driven member mounted for rotation relative to said driving member on an axis offset from the axis of rotation of the preceding stemming tube and arranged to engage a fruit impaled thereon, and rotatable means mounted in frictional engagement with said driving and driven members and held against movement about the longitudinal axis of the stemming tube for effecting rotation of the driven member oppositely to the direction of rotation of the stemming tube upon rotation of the latter.

2,660,210
MACHINE OF THE HOUSEHOLD TYPE FOR CUTTING, MASHING, AND WHIPPING FRUITS, VEGETABLES, AND THE LIKE
Nils Wilhelm Berglind, Stureby, Sweden
Application January 15, 1951, Serial No. 206,089
Claims priority, application Sweden January 16, 1950
3 Claims. (Cl. 146—68)

1. In a machine of the household type for cutting, mashing and whipping fruits, vegetables and

the like comprising a receptacle and a knife device secured to the upper end of a rotary shaft at the bottom of said receptacle, the improvement wherein said knife device includes a pair of blades each having a cutting edge, said blades being attached at their lower ends to the upper end of said shaft and including portions extending in-



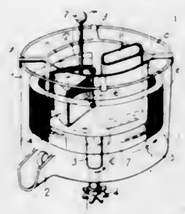
ward and obliquely upward from said lower ends towards and extending beyond the axis of said shaft, the respective cutting edges of said blades being contained in a common plane which also contains said axis, and said edges passing through and crossing each other at said axis substantially above the end of the shaft.

2,660,211

CENTRIFUGAL MACHINE FOR THE RECOVERY OF LIQUID OUT OF RAW VEGETABLE FOOD

Nils Wilhelm Berglind, Stureby, Sweden

Application February 13, 1951, Serial No. 210,690
Claims priority, application Sweden February 18, 1950
8 Claims. (Cl. 146—76)



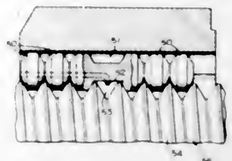
1. A centrifugal machine for recovering liquid out of raw vegetable food such as fruits, green vegetables, roots and the like comprising in combination, an outer stationary housing having an outlet for discharging liquid, a centrifuge container rotatably mounted in said housing, the bottom of said container being provided with a grating surface and the side wall thereof being perforated for passage of liquid only therethrough, a receptacle for pulp disposed interiorly of said centrifuge container, said pulp receptacle having an aperture through the side wall thereof for admitting pulp and being also provided with a pipe extending through the bottom wall thereof adjacent said grating surface through which food is passed to said surface for grating, and a scraper member carried by said receptacle, said scraper member being disposed at the aperture in the side wall of said receptacle and cooperative with the interior surface of said centrifuge container to remove and lead centrifuged pulp into said receptacle during rotation of said centrifuge container.

2,660,212

ROLLER WEDGE LOCK NUT

Gilbert S. Allen, Los Angeles, Calif.

Application June 14, 1951, Serial No. 231,564
2 Claims. (Cl. 151—25)



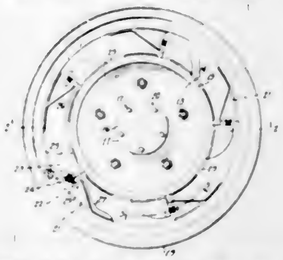
1. In a lock nut having a central threaded opening for engagement with a bolt, the combination of: walls on the nut forming an axially extending recess communicating with the central threaded opening in the nut, one of the walls forming a smooth inwardly directed cam surface, a locking roller within the recess having circumferential grooves providing a series of axially spaced lobes, each of the lobes having an outer cylindrical surface and having side faces and being similar in cross section to a corresponding portion of the threads of the nut, the position of the side faces of said lobes and the axial spacing of the lobes being such that the locking roller may be positioned to place all of the lobes within the projected outline of the thread form of the nut, the side faces being engageable with the threads of the bolt, the cylindrical surfaces being engageable with said cam surface to wedge the locking roller inwardly upon circumferential movement of the roller within the recess, the grooves all having substantially the same minimum diameter and just sufficient to clear the crests of the threads of the bolt when the roller is in wedging position, the recess having parallel axial grooves formed in the walls thereof, and a generally U-shaped retainer formed of a single length of wire having sides received in said axial grooves, the bight of the retainer extending across the recess within the projected outline of a thread of the nut and into one of said circumferential grooves for retaining the roller against displacement from the recess when the nut is disassembled from the bolt.

2,660,213

WHEEL RIM SUSPENSION

Philo G. Gilbert, Seattle, Wash., assignor to Gilbert Wheel Inc., Portland, Oreg., a corporation of Delaware

Application June 1, 1949, Serial No. 96,454
4 Claims. (Cl. 152—75)



1. In a wheel having a hub member and a rim member radially spaced therefrom, said hub member having a cylindrical outer surface, a suspension system supporting said rim member on said hub member, said system comprising three or more suspension units circumferentially equally spaced in the radial space between said

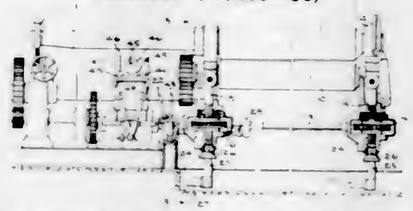
hub member and said rim member, each of said suspension units comprising a radially relatively flexible and axially relatively inflexible tension member secured at one end to said rim member and at its other end to said hub member to approach said hub member tangentially of its outer cylindrical surface, and a compression screw interposed circumferentially between said hub and rim members adapted to increase the tension on said tension member.

2,660,214

MACHINE FOR OPERATING ON METAL STOCK BY ROLLERS

Ernest Lambert Tinley, Wolverhampton, and Henry Albert Hallett, Cheltenham, England, assignors to Joshua Bigwood & Son, Limited, Wolverhampton, England, a British company

Application August 22, 1951, Serial No. 246,898
7 Claims. (Cl. 153—54)



1. In combination with a machine for operating on metal stock by rollers of the kind having at least a pair of co-operating rollers on spaced parallel axes, at least one of which rollers is supported in bearings which are linearly adjustable for the purpose of adjusting the position of this roller in relation to the co-operating roller; a rotary electromagnetic data transmitter and receiver system including a transmitter having a rotor, a flexible driving member of elongated form, connected at one end with an adjustable bearing and connected at the other end with the rotor of the transmitter so as to produce angular movement of the rotor in response to linear movement of the bearing, means for maintaining said flexible driving member in a state of tension and a roller position indicator including a scale and a pointed co-operating therewith and operatively connected with the receiver rotor of the transmitter and receiver system.

2,660,215

ELECTRICAL INSULATING MATERIAL

Nicholas F. Arone, Upper Darby, Pa., assignor to General Electric Company, a corporation of New York

No Drawing. Application September 22, 1950, Serial No. 186,306
7 Claims. (Cl. 154—2.6)

2. Electrical insulation comprising heat and pressure compacted laminations of ingredients consisting, by weight, of 28 to 45 per cent cellulosic material, 40 per cent to 60 per cent melamine formaldehyde resin and 5 per cent to 12 per cent of sodium borosilicate.

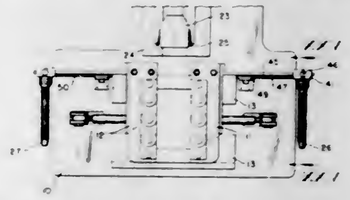
2,660,216

MACHINE FOR SPLICING RUBBER ARTICLES

Alfred B. Clayton and Thomas O. Hale, Indianapolis, Ind., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application October 23, 1951, Serial No. 252,722
6 Claims. (Cl. 154—9)

1. A machine for trimming a piece of flexible stock to a predetermined length and splicing the ends together comprising, a pair of carriages movable toward and away from each other, a clamp mounted on each carriage for separately clamping each end portion of the stock with portions of the ends thereof extending from opposed faces of the clamps, severing means movable between the opposed faces of the clamps for trimming the ends of the stock extending from said opposed faces, a pin of substantial length secured to and extending from the machine on each side of said clamps remote from said opposed faces around which the stock is adapted to be placed, a member secured to and project-



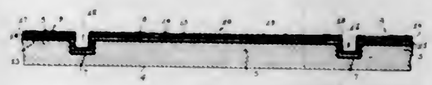
ing from the machine in substantially the same direction as said pins at a point spaced from said pins which the stock is adapted to engage, the combined distances between said pins, said member, and the opposed faces of the clamps being of a predetermined length whereby when said stock is placed in said machine around said pins and in contact with said member and the ends thereof clamped in said clamps, said severing means will trim the stock to a predetermined length and when said carriages are moved together the trimmed ends of the stock will be forced into abutting engagement to thereby form a splice.

2,660,217

METHOD OF PRODUCING MASONRY SIMULATING PANEL

William A. Lawson, Montreal, Quebec, Canada, assignor to Building Products Limited, Montreal, Quebec, Canada

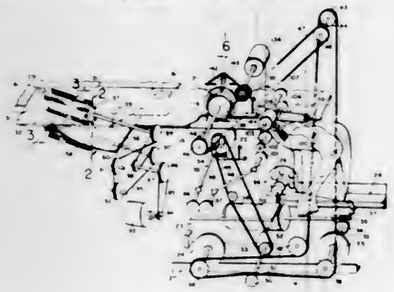
Application March 2, 1950, Serial No. 147,316
3 Claims. (Cl. 154—41)



1. A method of producing a relatively stiff and rigid masonry simulating siding panel which comprises grooving one side of a relatively stiff and rigid base of insulating material to thereby provide said base with a preformed brick wall design consisting of raised brick simulating areas bordered by longitudinally and transversely extending depressed mortar joint simulating areas, applying a coating of adhesive material to the brick and mortar joint simulating areas of said insulating base, covering the masonry simulating surface of the base by superimposing thereon a granular surfaced cap sheet having the granular surface thereof exposed, subjecting the resulting assembly to a cold pressing operation in which uniform pressure is exerted against the exposed granular surfaced side of the cap sheet to thereby firmly unite brick simulating areas of the cap sheet to the underlying brick simulating areas of the insulating base and to simultaneously depress other mortar joint simulating areas of the cap sheet into bonding engagement with the defining walls of the depressed mortar joint simulating areas of the base and thereafter subject-

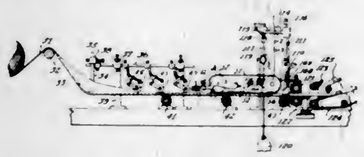
ing said assembly to a hot pressing operation in which pressure is applied only to the depressed portions of the cap sheet to depress these areas of the cap sheet deeper into the underlying insulating base.

2,660,218
WELDING APPARATUS
Kermit F. Johnson, Frank J. La Mere, and Otto C. Winzen, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware
Application April 2, 1948, Serial No. 18,584
21 Claims. (Cl. 154—42)



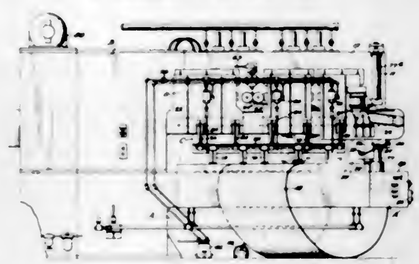
1. A device for fastening superimposed layers of sheet material comprising fastening means mounted for relative movement along said material, a plate against which said material is guided, said plate lying substantially in the plane of the material and being located ahead of the fastening means, said device including feeding means causing relative longitudinal movement of the material from the plate toward the fastening means, and a tensioning member engaging said material to hold it against said plate, said member being rotatably mounted on an axis parallel to the plane of said plate and material and having a surface providing slipping engagement with said material in a direction tending to smooth it and tension it laterally across said plate.

2,660,219
HEAT-SEALING MACHINE
Walter Haas, Middletown, and Frank D. Bergstein, Hamilton, Ohio, assignors to The Interstate Folding Box Company, Middletown, Ohio, a corporation of Ohio
Application March 15, 1950, Serial No. 149,708
10 Claims. (Cl. 154—42)



1. In seaming apparatus for seaming lapped film portions, an elongated forming plate about which film is drawn and tubed, said forming plate having a longitudinally extending opening therein, a series of transversely disposed rollers rotatively mounted in said opening, said rollers acting at the top surface of said forming plate to provide a moving support for the lapped film portions, a moving belt extending along said forming plate and overlying said rollers, and heating means located above said rollers and juxtaposed to said belt to apply heat to said belt.

2,660,220
GLUE-JOINING AND PRESS APPARATUS AND METHOD OF JOINING THE ENDS OF ABRASIVE STRIPS
James R. Hawkins, Deerfield, Ohio, assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
Application May 25, 1951, Serial No. 228,308
15 Claims. (Cl. 154—42)

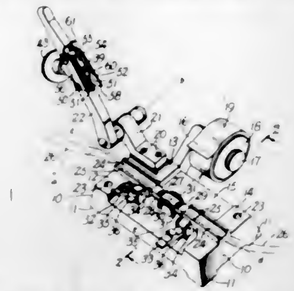


1. In glue-joining and press apparatus, a bed, a frame providing a bridge there-above, a press mounted in said bridge for movement toward said bed, fingers associated with said bed and adapted to align the forward edge portions of a strip advanced over said bed, said fingers being retractable below said bed, holder means carried by the bridge frame and engageable with the strip to hold the same with the forward edge thereof aligned and exposed, a carriage extending laterally of the press and movable longitudinally thereof and beyond the press, a gluepot extending laterally of the carriage member below the press, and glue-applying means carried by said gluepot and engageable with the exposed edge of said strip for applying glue, said carriage comprising a roller-equipped plate engageable with a track structure on said bridge frame, and a gluepot-supporting plate vertically movable with respect to said first-mentioned plate and engageable with means on said frame for raising said gluepot at one end of the travel of said carriage.

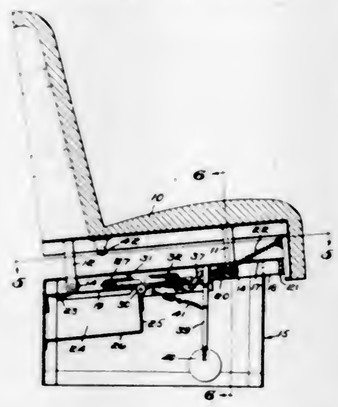
11. The method of joining the ends of a strip coated with abrasive on one side thereof, comprising skiving the abrasive material from one end portion of said strip to provide a relatively abrasive-free transversely-extending border area, moving the skived end of said strip across a surface with the abrasive-coated side away from said surface until said border area abuts retractable stop members, clamping the skived end of said strip to said surface with the abrasive-free border area exposed, applying adhesive to said border area, also retracting said stop members, then moving the other end of said strip across said surface with the abrasive-coated side away from said surface into edge overlapping relation with said border area and with said other end outermost, clamping said other end to said surface with the overlapping end portions of said strip exposed, and then pressing the overlapping end portions of said strip against said surface to produce a permanent joint therebetween.

2,660,221
TAPE CUTTER AND SPLICING DEVICE
Hobart A. Simpson, New York, N. Y., assignor to Vera Alonge, New York, N. Y.
Application March 7, 1950, Serial No. 148,151
10 Claims. (Cl. 154—42.3)

1. In apparatus of the character described, in combination, a tape supporting anvil block having a plane upper surface and a pair of parallel longitudinal shear edges, a cutter bar pivotally mounted in operative relation to said surface of said anvil block and movable into aligned superimposed relation thereto, a normally retracted knife movably mounted in said bar and operable into operative contact transversely of said surface when said bar is in its said superimposed position, guide means for positioning a strip of recording tape longitudinally upon said plane anvil surface for transverse severance between said anvil and said knife and manual means to impart a cutting movement to said knife.

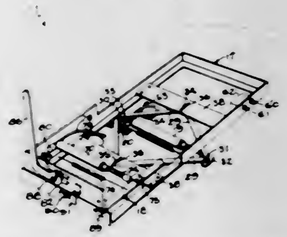


2,660,222
SAFETY SEAT FOR VEHICLES
Leland A. Woodsworth, Roxbury, Mass.
Application May 29, 1952, Serial No. 290,711
7 Claims. (Cl. 155—9)



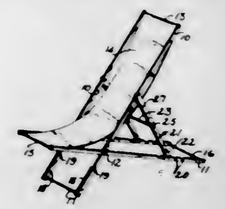
6. A safety seat for a vehicle, said seat comprising a seat member and a base on which the seat member is slidably connected and including a support, a spring interconnecting said seat member and base and yieldably opposing forward sliding movement of said seat member, an element carried by said base for movement between a first position in which it supports the rear part of said seat member in a position of use and a second position in which the rear chair part is free to drop to tilt the seat member rearwardly into a safety position, a lock releasably holding said element in its first position, and including a spring operated latch on said element engaging said support in said first position, a spring operated latch on said base engageable with said first named latch to release it from said support, a spring controlled sear holding said second named latch against engagement with said first named latch, and means operable on a predetermined rate of deceleration to actuate said sear to release said second named latch, and a member carried by said seat member to engage with said second latch when said seat member is in its safety position to cam said second latch into engagement with said sear.

2,660,223
AUTOMOBILE SEAT STRUCTURE
Arthur I. Appleton, Northbrook, Ill.
Application April 11, 1951, Serial No. 220,457
15 Claims. (Cl. 155—15)



1. An automobile seat structure comprising, in combination, a seat unit having a tiltable back member, an auxiliary frame underlying said seat unit and interconnected therewith for transmitting fore-and-aft movement thereto, a main frame underlying said auxiliary frame, said frames being movable relative to each other in a general fore-and-aft direction and said main frame being movable relative to the floor of the automobile also in a general fore-and-aft direction, means including a hydraulic actuator interposed between said main frame and the floor of the automobile for selectively positioning said main frame, said auxiliary frame, and seat unit relative to the floor, means including a second hydraulic actuator interposed between said auxiliary frame and said main frame, and a control for said second hydraulic actuator responsively associated with said tiltable back member, said control being operable to energize said second actuator for temporarily displacing said auxiliary frame and said seat unit in a forward direction from their normal position on said main frame as an incident to tilting of said back member.

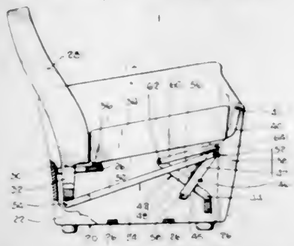
2,660,224
CONVERTIBLE BEACH CHAIR
Madeline Voros Frisch, Larchmont, N. Y.
Application March 31, 1952, Serial No. 279,517
1 Claim. (Cl. 155—45)



A convertible beach chair, comprising a frame having longitudinal side bars and connecting end cross bars, a second frame having longitudinal side bars and connecting end bars, the side bars of the second frame being disposed against the outer sides of the side bars of the first frame

and pivotally connected thereto near adjacent ends of the two frames, a flexible load supporting fabric strip secured at one end to a cross bar of the first frame and at the other end to the opposite cross bar of the other frame, strut pieces pivotally mounted on the other cross bar of said first frame, and telescopic brace bars pivoted on the side bars of the first frame and having adjustable bearing on the side bars of the second frame, for supporting the two frames in rigid angular relation to each other whereby the two frames may be used as a beach chair or as a cot, said strut pieces being pivoted into ground engaging position when said frames are adjusted to be used as a cot and pivoted between said longitudinal side bars of said first frame when said frames are to be used as a chair.

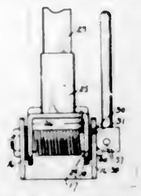
2,660,225
ARTICLE OF REPOSE FOR SUPPORTING THE BODY OF A PERSON
Johannes Luckhardt, Berlin-Dahlem, Germany, assignor to Anton Lorenz, Buffalo, N. Y.
Application May 23, 1952, Serial No. 289,497
14 Claims. (Cl. 155—106)



1. An article of repose for supporting the body of a person, comprising: a support, a back-rest pivotally mounted on said support, said back-rest having a downward extension, a seat, the rear portion of said seat being swingably mounted on said support, a controlling member pivotally connected with said support, a first connecting link, said first connecting link being pivoted at its rear end to said downward extension of the back-rest and at its front end to said controlling member, the pivotal connection of said controlling member with said support being in a plane below the plane of the pivotal connection of said controlling member with said first connecting link, a second connecting link, one end of said second connecting link being pivoted to said controlling member, the other end of said second connecting link being pivoted to said seat, a leg-rest swingably mounted on the front portion of said seat, and a controlling link pivoted at one of its ends to said leg-rest and at its other end to said controlling member.

2,660,226
SEAT BACK REST SUPPORT
William A. Wing, Milwaukee, Wis., assignor to Milsco Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application June 13, 1951, Serial No. 231,299
2 Claims. (Cl. 155—160)

2. In a seat structure having a backrest support hingedly connected to the seat for tiltable adjustment relative thereto, the hinge connection comprising the combination of resilient spaced arms secured to the seat, spaced arms on the backrest support, a pivot bolt extending through both sets of arms and having a head engaging one of said seat arms, a clutch connection between adjacently disposed arms comprising intermeshing clutch teeth radially disposed relative to said pivot member and integral with said arms, and means for bringing said clutch teeth of each clutch connection into intermeshing locked connection comprising said pivot bolt and



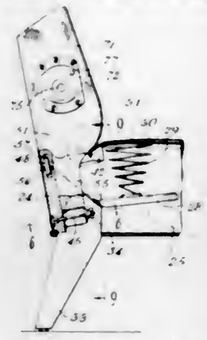
a cam member pivotally connected with said bolt and engageable with the other of said seat arms to flex said seat arms toward the other set of arms, said cam member having a flat surface engageable with said other seat arm to limit the final squeeze between said seat arms and the spaced arms of said backrest support.

2,660,227
SPRING CONSTRUCTION
Floyd S. Laurie, Royal Oak, Mich., assignor to American Metal Products Company, Detroit, Mich., a corporation of Michigan
Application June 18, 1949, Serial No. 99,925
1 Claim. (Cl. 155—179)



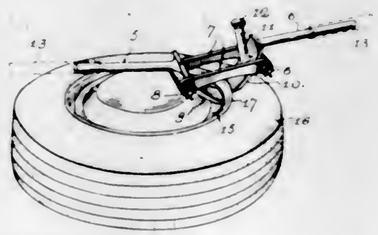
A sinuous spring strip comprising a first spring member made of wire bent back and forth in sinuous form having a web and integral supports for the web bent in the shape of a V thereunder, one of said supports comprising a first portion continuous with the web that is reversely bent inwardly under the web and a second portion reversely bent outwardly from the first portion and adapted at its end to be secured to a rail, and a second helper spring member also made of wire bent back and forth in sinuous form for stiffening the load supporting portion of the web disposed on the underside of the web and secured to an intermediate portion thereof and having end portions secured to intermediate points of the support, both said helper spring and said web being in the form of downwardly presenting arcs, said helper spring connection with the one support being to an intermediate point of the first portion, when connected to the web the length of the helper spring portion included between the web and the first portion of the one support being less than the distance between the first portion and web without such connection whereby said connection of the first portion and helper spring results in upward crowning of the first portion, the first portion thus being in the form of a downwardly presenting arc.

2,660,228
KNOCKDOWN CHAIR
Oscar A. Reinhold, Flossmoor, Ill.
Application June 24, 1950, Serial No. 170,191
1 Claim. (Cl. 155—196)



A chair having a seat formed with a rear rail, a back rest formed with side rails recesed at the bottom to form shoulders resting on said rear rail, means between the latter and said shoulders for aligning the rear rail with said side rails and retaining the back rest against lateral displacement, downward extensions from said side rails in front of the rear rail and recessed in their lower ends, bolts extending forwardly from the rear rail through the recesses of said extensions, and nuts applied to the bolts in front of the extensions to secure them to the rear rail.

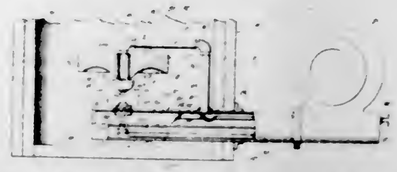
2,660,229
TIRE BEAD LOOSENING LEVER
Ralph Garvie Taylor, Milford Station, Nova Scotia, Canada
Application August 24, 1951, Serial No. 243,523
1 Claim. (Cl. 157—1.17)



A hand-operated tool for removing a tire from a rim comprising a pair of levers, opposing jaw members rigidly carried by the lower ends of said levers, each of said jaw members extending at an angle to its associated lever, a pair of elongated lever-connecting link members, the jaw-carrying portions of the levers being positioned between and pivotally connected to opposite ends of said link members so that said jaw members are positioned inwardly of the pivotal connections between the levers and link members and below and between said link members with the inner faces of the jaw members opposed to each other, said levers lying in a substantially horizontal plane when in operative position and said jaw members extending downwardly with their end portions directed inwardly to engage said tire and rim respectively, and an anvil member rigidly secured to the inner face of one of said jaw members which engages said tire and extending upwardly between said links to a point above the links.

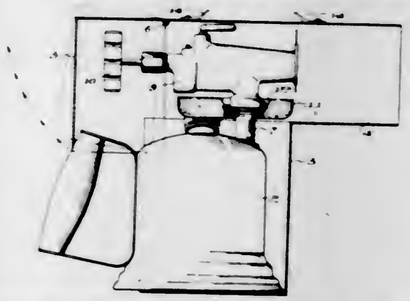
676 O. G.—71

2,660,230
OIL BURNER
Charles T. Denker and John R. Moore, Chicago, Ill.
Application October 23, 1948, Serial No. 56,162
5 Claims. (Cl. 158—4)



4. In a furnace of the type comprising walls defining a firebox, a liquid-fuel nozzle disposed in the lower portion of said firebox and projecting upwardly away from the central portion of the bottom wall of said firebox for directing a stream of fuel upwardly in said firebox, an air line having an outlet portion mounted around said nozzle for feeding a stream of air upwardly therepast and around said stream of fuel, a second air line mounted in said firebox and extending above the outlet portion of said first mentioned air line and said nozzle and having an outlet directed downwardly toward said first mentioned air line and said nozzle for feeding a stream of air theretoward, and means for mixing said air streams and said fuel stream and directing said mixed streams downwardly and outwardly toward the bottom of said firebox, said means comprising a horizontally disposed plate mounted on said second air line above said outlet portion of said first mentioned air line and said nozzle in spaced relation to said walls, said plate having an annusar concave lower surface surrounding said second air line, and a deflector having a convex lower surface and a concave upper surface mounted between said outlet portion and said outlet in axial alignment with said annular surface for deflecting said air streams and said stream of fuel outwardly against said annular surface at an acute angle to the horizontal.

2,660,231
BLOWTORCH HOOD
Harry H. Sherman and Myer A. Silverman, Grove City, Pa., assignors to P. Wall Mfg. Company, Grove City, Pa., a corporation of Pennsylvania
Application April 8, 1952, Serial No. 281,068
1 Claim. (Cl. 158—33)



The combination with a blow torch of the type having a pressure fuel tank that is provided with a handle on its rear side and with the valve chamber on its upper end, and having a forwardly-extending torch barrel on its upper portion, and also having a valve-operating stem

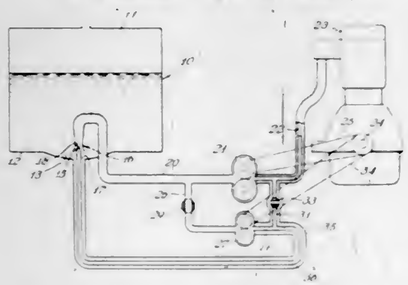
projecting rearwardly from the valve chamber, of a hood comprising a vertical chamber normally at its rear side to receive said tank, a horizontally-extending cylindrical chamber open at both ends and at its lower rear portion and being carried by the said vertical chamber in position to receive the torch barrel of a pressure tank inserted into the said vertical chamber, a closure member hingedly connected to an upper portion of the cylindrical chamber, at its rear end, the closure member, when in its lower position extending across the direct path of entry into the rear end of the cylindrical chamber, a carrying handle on the top of the cylindrical chamber, and a bottom wall for the said vertical chamber, upon which the blow torch will be supported when the assembly is carried by said handle.

2,660,232

JET PUMP FLUID FLOW SYSTEM

T Cyril Noon, Bainbridge Township, Geauga County, and Robert J. Anderson, Cleveland, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application September 20, 1949, Serial No. 116,663
9 Claims. (Cl. 158—36.3)



1. A fuel system for aircraft engines including a source of fuel supply, a pump connected thereto, a high pressure line from said pump adapted to be connected to the engine, and a self-sealing low pressure line encircling said high pressure line and closed at one end and communicating with said source of fuel supply at its opposite end to return fuel leaking from said high pressure line for use by the engine.

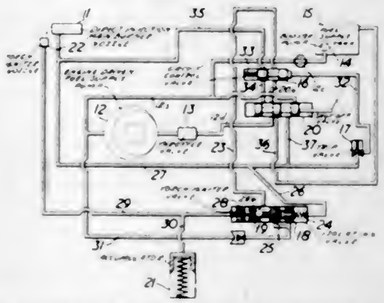
2,660,233

AUTOMATIC TORCH IGNITION SYSTEM FOR INTERNAL-COMBUSTION TURBINE ENGINES

Frederick Henry Carey, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England

Application October 24, 1949, Serial No. 123,147
8 Claims. (Cl. 158—36.4)

1. A fuel supply system for delivery of fuel to a turbine engine of the continuous combustion type, which system comprises a torch igniter nozzle, a supply pump adapted to be driven by such an engine, conduit means including said pump and said nozzle, and including a portion adapted to be connected to a fuel source for supply of fuel to said pump, and also adapted to be connected by a normal running path to a main burner nozzle of such an engine but not to said torch igniter nozzle; a manually shiftable shut-off valve and a pressure-shiftable circuit control valve connected in such normal running path successively from said pump to the burner connection, and each having passages for inclusion in such normal running path and each shiftable to open or to close the normal running path, and conversely to close or to open an alternate path, said conduit means including another portion constituting such alternate path, between said pump and each of the main burner nozzle connection and said torch igniter nozzle, the shut-off valve and the circuit control valve having also passages for inclusion, in accordance with their respective shifted positions, in the alternate path; a torch igniter valve means in the alternate path, between the circuit control valve and the torch igniter nozzle, said torch igniter valve means being biased to close normally, but



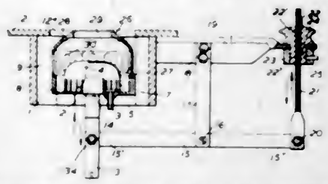
operable under the influence of pressure in the alternate path while the normal path is closed, to be opened thereby; and said conduit means including a pressure connection to said circuit control valve, and subject to system pressure, as delivered to the main burner nozzle connection by either path, to shift said circuit control valve automatically under the influence of such system pressure into position to open the normal running path and to close the alternate path, and so to terminate automatically the fuel supply to the torch igniter nozzle upon attainment of supply under adequate pressure to the main burner nozzle connection.

2,660,234

BURNER FOR LIQUID FUELS WITH COMBUSTION AIR UNDER ATMOSPHERIC PRESSURE FOR INDUSTRIAL AND DOMESTIC PURPOSES

Mario Nava, Macclesfield, England

Application October 21, 1949, Serial No. 122,768
3 Claims. (Cl. 158—91)



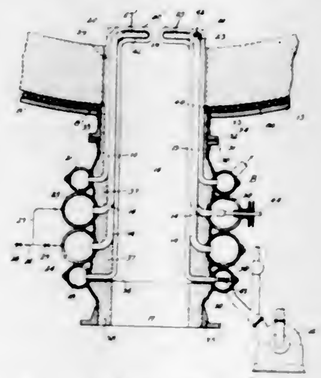
1. A burner for liquid fuel, comprising a basin having a flat bottom and provided with an upstanding wall at the periphery of said bottom, said bottom having a centrally disposed air opening therethrough and an upstanding wall encircling said opening, said two upstanding walls forming between them an annular channel, an inlet for liquid fuel communicating with said channel, a cap having openings in its wall and covering said air inlet, said cap standing in said annular channel, an open topped silencer mounted on the top of the peripheral wall of said basin, the lower part of said silencer being cylindrical and provided with air openings and the upper part being tapered inwardly above said cylindrical part to the opening in the top, a vertically movable support for said basin, cap and silencer, an enclosing cylindrical cover held in a fixed position and disposed in encircling relation to said basin, cap and silencer, a flat cover disposed on the top end of said cylindrical cover and having a central opening above said basin, cap and silencer, and means for imparting a reciprocatory motion to said basin, cap and silencer on their vertical support toward and from said flat cover thereby to regulate the flame.

2,660,235

BURNER FOR CONVERTING NATURAL GAS INTO GASOLINE COMPONENTS

Ward S. Patterson, Chappaqua, N. Y., assignor to Combustion Engineering, Inc., a corporation of Delaware

Application July 24, 1947, Serial No. 763,343
19 Claims. (Cl. 158—99)



19. In a burner for systems for converting heated natural gas into gasoline components and like systems having an inlet and an outlet for the gas to be processed, a plurality of cooling water tubes, a plurality of oxygen delivering tubes, said tubes being arranged to extend longitudinally of the burner in closely spaced relation to one another around but spaced from the longitudinal axis of the burner and substantially parallel thereto to constitute the wall of the burner, to and through which the gas to be processed is delivered, and closure means cooperating with the tubes to seal the wall of the burner, the oxygen delivering tubes being arranged in juxtaposition to the cooling tubes to be cooled by the latter and being perforate for oxygen delivery into the gas to be processed.

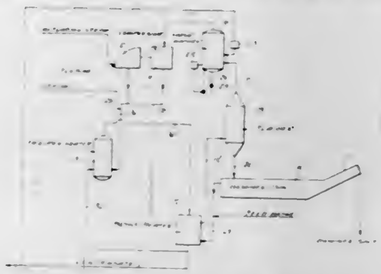
2,660,236

VAPOR RECOMPRESSION SYSTEM

William H. Farnsworth, Manistee, Mich., assignor to Morton Salt Company, Chicago, Ill., a corporation of Illinois

Application January 15, 1947, Serial No. 722,187
3 Claims. (Cl. 159—21)

1. In combination with a grainer pan for making grainer salt, a brine heater, a vapor flasher, conduit means interconnecting the outlet side of said heater with the inlet side of said flasher, conduit means interconnecting said flasher with said grainer pan whereby heated, partially concentrated brine from said flasher may be delivered to said grainer pan, conduit means for delivering partially concentrated brine from said grainer pan to said brine heater, a vapor compressor, conduit means interconnecting the vapor outlet side of said flasher with the suction side of said compressor whereby flash steam vapor may be withdrawn under suction from said flasher, a steam powered prime mover, driving means operatively interconnecting said compressor in driving relationship with said prime mover, conduit means interconnecting the discharge side of said vapor compressor and the exhaust side of said prime mover with said brine heater so as to conduct heating steam thereto and de-superheater means connected in series relationship in said last mentioned conduit means wherein steam may be desuperheated before it is delivered into said brine heater.



2,660,237

VERTICAL WINDOW SHUTTER

Frederick William Bopp and Edward Otto Bopp, Kansas City, Mo., and Ernest F. Taylor, Indianapolis, Ind.

Application August 2, 1951, Serial No. 240,008
4 Claims. (Cl. 160—34)



1. A support structure for vertical window shutters comprising a pair of channel members disposed horizontally respectively at the upper and lower edge of the inner face of a window frame and opening respectively upwardly and downwardly, said channels being adapted to support shutter slats therebetween and each having side walls of different widths, the wider of said side walls being disposed outwardly from said window frame, a plurality of bracket receiving members carried by each of said channels, each of said bracket receiving members being of substantial U-shape with legs of unequal length and disposed in opposed relation to the associated channel, said bracket receiving member having

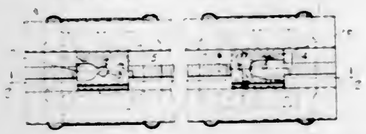
a first position relative to said channel wherein the shorter leg of said member is in engagement with the narrower wall of said channel and the longer leg of said member is in engagement with and disposed entirely inside the wider wall of said channel, and being reversible to a second position wherein the shorter leg of said member is in engagement with and extends outwardly from the wider wall of said channel and the longer leg of said member is in engagement with the narrower wall of said channel, said bracket receiving member having a window formed in the shorter leg thereof for receiving the horizontal leg of a bracket fixed to the window frame when said member is in the first position and for receiving the horizontal leg of a bracket fixed to a facia board when said member is in the second position, said facia board being disposed at the side of the channel opposite the window frame.

2,660,238

COMBINATION VENETIAN BLIND TAPE FASTENER, CORD ANCHOR, PULLEY SUPPORT, AND COVER THEREFOR

Richard H. Wright, Bratenahl, and Anthony Zay, Cleveland, Ohio, assignors to Guarantee Specialty Manufacturing Company, Cleveland, Ohio, a corporation

Application September 18, 1950, Serial No. 185,439
1 Claim. (Cl. 160—173)



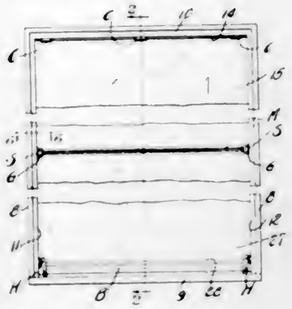
In Venetian blind construction, in combination, a rail comprising a concave body portion having spaced hollow flange portions providing a longitudinal channel between the said flange portions, the rail being cut away at the channel portion to provide an opening therethrough, a unitary cord and tape connecting member comprising a U-shaped body detachably inserted through said opening to occupy a position in said channel and being formed of a depth approximately that of the channel, the sides of the connecting member being each formed with a laterally projecting flange and said flanges extending in opposite directions and overlapping in contacting relation the adjacent faces of the hollow channel portions of the rail, each flange being formed at its outer edge with penetrating projections bent inwardly from the edges and away from the rail body, tapes having ends thereof passed over the channel portions of the rail transverse thereto but directly engaging the flanges of the connecting member that contact said channel portions, said tape ends having the said penetrating projections passing therethrough, and a cover member consisting of a substantially rectangular body formed with offstanding end projections at its side edges in frictional detachable engagement with corresponding edges of the rail, the main area of the cover member between spaced pairs of the end projections being raised slightly to form a space in which the tape passes between the cover and the adjacent portions of said flanges, said cover extending over the flanges of the connecting member and in substantial contact with the penetrating members extending therefrom and wholly housing the flanges, their projections and the adjacent tape ends penetrated by the last named projections.

2,660,239

CENTER BAR FOR FLEXIBLE STORM WINDOWS

Fred J. Burns, Saginaw, Mich., assignor to The Columbia Mills, Inc., Syracuse, N. Y.

Application January 2, 1951, Serial No. 204,042
8 Claim. (Cl. 160—184)



1. The combination with a window frame, of a frameless flexible storm window associated therewith, an elongated bar spanning the outer face of said flexible storm window at a point intermediate its length, the side edges of the storm window being disposed in contact with the outer faces of the blind stops of the window frame, brackets secured to the sides of the blind stops of the window frame adjacent the ends of said bar, each bracket having a laterally projecting leg extending inwardly to overlie said storm window, laterally adjustable threaded posts mounted on the ends of said bars and engageable with the projecting leg of said bracket, and releasable means engageable with said posts and adjustable thereon to draw said bar and storm window toward the side brackets into intimate weather-tight contact with the outer face of the blind stops.

2,660,240

APPARATUS FOR CUTTING OF RINSING PIPES

Maurycy Ringler, Stalina, Poland

Application March 22, 1950, Serial No. 151,148
8 Claims. (Cl. 164—0.7)



1. A cutting device for cutting pipes of the type used in connection with the drilling of wells, comprising in combination a rotatable hollow spindle adapted to be coupled on one end with driving means for imparting rotation to the spindle, a pair of jaws having cutting edges thereon suitable for cutting the wall of a pipe articulated to the other end of the spindle in a scissors-like arrangement, loaded spring means disposed within the hollow spindle and biasing said jaws into a position in which the jaw portions having cutting edges thereon are spread, wire means applied to the jaws for closing said jaw portions against the action of said spring means, said cutting edges being within the outline defined by the maximal cross-section of the spindle when the jaws are held closely together and protrude therefrom, when the jaws are spread, for cutting engagement with a pipe to be cut, and wire breaking means including an elongated member attached to said wire means axially

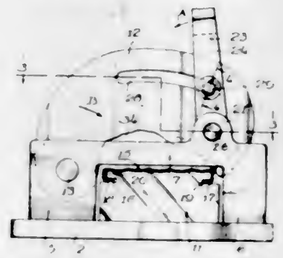
movable relative to the spindle, axial movement of the said member effecting breaking of the wire means, and actuating means operable by engagement with an obstruction in a pipe to be cut and operatively coupled with said movable member for imparting a wire breaking axial movement to the same in response to an engagement of the actuating means by an obstruction in the pipe.

2,660,241

CUTTING MACHINE

Bela B. Junkunc, Chicago, Ill., assignor to Bela B. Junkunc, Alexander Junkunc, Sr., Alexander Junkunc, Jr., and Joseph G. Junkunc, a partnership doing business as J. & J. Tool & Machine Co., Chicago, Ill.

Application April 1, 1948, Serial No. 18,456
4 Claims. (Cl. 164—44)



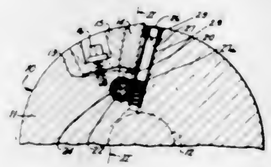
1. In a cutting machine, a base, a frame comprising two upstanding members spaced apart on said base, a die secured to said base under said frame, said die comprising two parts separated to permit entry of a knife therebetween, a knife pivoted at one end between said frame members adjacent one end of said frame, said knife having an irregularly curved cutting edge, and a cam slot above said cutting edge, a handle having bifurcated ends straddling said knife and pivoted to said frame adjacent the end opposite that to which said knife is pivoted, and a roller secured to said bifurcated ends, said roller passing through said cam slot.

2,660,242

KNIFE-ADJUSTING MEANS FOR ROTARY SHEARS

John R. Lane, Pittsburg, Calif., assignor to United States Steel Corporation, a corporation of New Jersey

Application December 12, 1951, Serial No. 261,201
7 Claims. (Cl. 164—66)



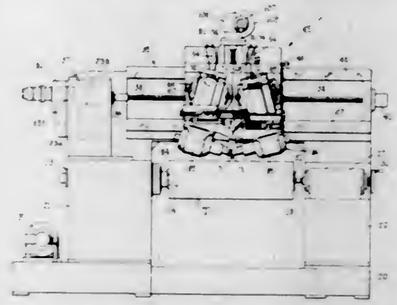
1. In a rotary-shear cylinder having a longitudinal slot in the periphery thereof adapted to receive a knife, the combination therewith of a wedge bar extending into said cylinder inwardly of said knife and slidable axially therein, a screw extending axially from one end of said bar, a worm cylinder threaded on said screw, a worm shaft extending generally radially of the shear cylinder and having a worm thereon meshing with said worm cylinder for turning said worm cylinder and sliding said bar, and means effective on sliding movement of the bar for moving said knife outwardly in said slot.

2,660,243

V BELT CUTTING MACHINE

Edmund J. Lomazzo, Norwalk, Conn.

Application May 16, 1951, Serial No. 226,600
30 Claims. (Cl. 164—69)



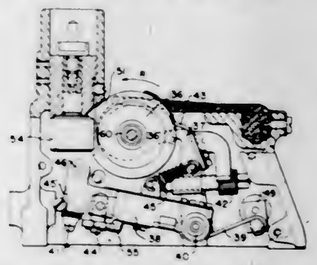
1. In a belt-cutting machine having a rotatable work-supporting mandrel, a disk-like cutter, means for adjusting the cutter to establish a plane of cutting, means to rotate said cutter in its plane, and a carrier for said rotatable cutter; a plurality of mutually independently adjustable means for the carrier for positioning said cutter with respect to the work, whereby the position and relationship of said cutter to the work on said work-supporting mandrel may be selectively and individually adjusted in any one particular respect without requiring any readjustment of any previously made adjustment of the first adjusting means in any other particular respect.

2,660,244

PERFORATING MACHINE

Karl Nicolay, Bielefeld, Germany, assignor to Duerkoppwerke Aktiengesellschaft, Bielefeld, Germany, a German company

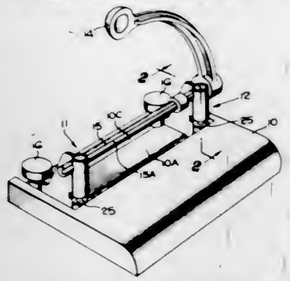
Application May 26, 1950, Serial No. 164,493
Claims priority, application Germany June 9, 1949
9 Claims. (Cl. 164—89.5)



1. A perforating machine of the type guided by hand over a stationary pattern including a driving motor, a constantly revolving shaft driven by said motor, punch means for effecting penetration of said pattern, a spring disposed so as to be capable of imparting striking motion to said punch means, a cam mounted on said shaft and effective to control the movement of said punch means, and clutch means adapted to cause said cam to rotate with said constantly revolving shaft, there being provided a pivotally mounted lever, the free end of which is adapted to follow

the movement of said cam and in so doing to tension said spring prior to actuation of said punch means.

2,660,245
SHEET STOCK PUNCH HEAD HOUSING
Allan O. Marsh, Los Angeles, Calif.
Application August 7, 1950, Serial No. 178,119
4 Claims. (Cl. 164—91)



1. In a punch of the character described, a punch head housing comprising: a double layer of juxtapositioned sheet stock material, each layer having cooperating spaced reentrant portions which define a pair of cylindrical tubular portions having their parallel axes extending generally parallel with the planes of said sheet stock material, each of said layers having an apertured portion contiguous with one edge of said juxtapositioned layers and extending through one of said cylindrical portions to divide said one cylindrical portion into two vertically aligned spaced cylindrical portions, the upper one of said aligned spaced cylindrical portions being intersected by a third cylindrical portion defined between juxtapositioned layers and having its axis extending generally perpendicular to the axis of said one cylindrical portion, a punch die supported for sliding movement in said upper one of said aligned cylindrical portions, said die having a shoulder thereon, an operating rod with a longitudinally extending grooved portion passing through said third cylindrical portion with the grooved portion thereof embracing said shoulder, a spring within said upper cylindrical portion and acting to bias said shoulder up into engagement with said grooved portion of said operating rod, a spring seat against which the lower end of said spring bears, means retaining said spring and spring seat within said cylindrical portion, a second cooperating cylindrical ring-shaped die disposed within the lower one of said aligned spaced cylindrical portions, and means retaining said second die on said lower cylindrical portion.

2,660,246
REGULATOR
Herbert C. Otis, Dallas, and John C. Luccous, Midland, Tex.; said Luccous assignor to said Otis
Application June 1, 1948, Serial No. 30,326
14 Claims. (Cl. 166—2)

1. A well fluid flow regulator including, a tubular support having a well fluid inlet and positionable within a well tubing, means for exteriorly sealing off the support in a well tubing, the support having a flow passage extending therethrough from its inlet for well fluids, a valve sleeve mounted in the passage of the support above the inlet and having a bore and a counterbore therethrough and a valve seat between said bores, the counterbore of the sleeve outwardly of the seat having flared flow channels, an elongate valve movable longitudinally in said counterbore toward and from said seat and having its opposite ends exposed to fluid pressures above and below said seat, and yieldable resistive means



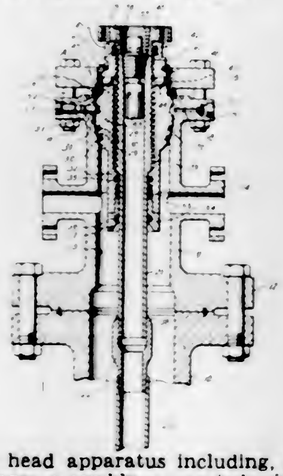
set to hold the valve seated until a predetermined pressure differential across the valve is established and adapted to yield to fluid flow variations to regulate the upward flow through said sleeve.

2,660,247
RETRIEVABLE WELL PACKER
Cecil H. Sweet, Hobbs, N. Mex., assignor to Sweet Oil Well Equipment, Incorporated, a corporation of New Mexico
Application September 13, 1949, Serial No. 115,353
2 Claims. (Cl. 166—10)



2. A well packer for insertion in a pipe string comprising two telescoping sections, the first section having a first packer seat and having a major mandrel extending therebeyond and said mandrel having an annular shoulder at its outer end, the second section having a second packer seat and having a minor mandrel extending therebeyond, said minor mandrel telescoping into said major mandrel; a resilient packer element disposed about said packer between said seats, the element being fixed at one end to said second seat and having a bore of larger diameter than said major mandrel whereby as said sections are telescoped together the major mandrel will slide into said bore and underlie said element and said seats will longitudinally compress said element; and an abutment in said bore at the unfixed end of said element whereby as the sections are moved apart the major mandrel will withdraw from said bore and said shoulder will engage with said abutment so that upon further separation of said sections said element will be forcibly elongated.

2,660,248
WELLHEAD APPARATUS
Cicero C. Brown, Houston, Tex.
Application December 17, 1951, Serial No. 262,014
14 Claims. (Cl. 166—15)



1. A well head apparatus including, a tubing head, a hanger assembly supported within said tubing head and including a hanger body seated in said tubing head, means forming part of said hanger assembly depending from said hanger body and connected with a well tubing for suspending said tubing, and means for mounting said last named means for rotation and longitudinal movement of said well tubing with respect to the hanger body.

2,660,249
MEANS FOR HEATING OIL WELLS
John J. Jakosky, Los Angeles, Calif.
Application November 18, 1949, Serial No. 128,145
5 Claims. (Cl. 166—17)



5. In an oil well having electrically conductive tubing extending into the well, and an electrically conductive reciprocable pump rod extending into the well within the tubing, said pump rod being effective to generate heat when a current is passed therethrough, the combination of a contact member within said tubing circumjacent said rod and in electrical engagement with said tubing, an elongate, generally helical, longitudinally expansible and contractible electrical conductor disposed longitudinally in said tubing circumjacent said rod, one end of said conductor being connected to said rod, the other end being connected to said member, and means at the top of said well for applying an electric potential between said rod and said tubing, thereby to cause a current to flow in said rod and tubing to heat the oil within the tubing.

2,660,250
MEANS FOR REMOVING FOREIGN MATTER FROM DRILL HOLES
Lonnie L. Gage and Clarence L. Nelson, Snyder, Tex.
Application September 28, 1951, Serial No. 248,678
6 Claims. (Cl. 166—19)

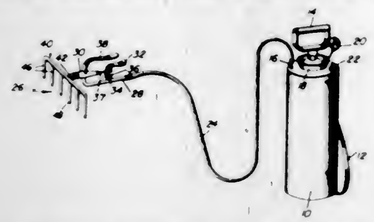


1. An assembly for removing "cones" and "junk" from a drill hole comprising a hollow body portion provided with open ends adapted to be lowered into the hole in proximity to the bottom thereof, packing means carried by the body portion adapted to cooperate with the wall of the hole to isolate the area of the hole below said packing means, conduit means extending longitudinally of the body portion to a point below one of the open ends of the said hollow body portion, a hollow support connected to said conduit means at the point below the body portion, nozzles supported by the hollow support for directing fluid against the walls of the hole, further nozzle means on the support for directing fluid into the interior of the body portion, a basket within the body portion for trapping the "junk," yieldably mounted fingers pivotally attached to the body portion adapted to permit the "junk" and "cones" to be admitted into the interior of the body portion, and means to direct fluid through said conduit means whereby the nozzles will direct the "cones" and "junk" toward the further nozzle means for forcing the "cones" and "junk" into the body portion wherein the basket will trap the "junk" and the yieldably mounted fingers will trap the "cones."

2,660,251
INSECTICIDE SPRAY
John W. Birosh, Roulette, Pa.
Application July 12, 1950, Serial No. 173,441
1 Claim. (Cl. 169—159)

For use in connection with a dispensing apparatus for liquid insecticide wherein said apparatus includes a source of pressurized liquid

insecticide; a fountain comb embodying a tube provided with lateral longitudinally spaced hollow teeth, said teeth having rounded end portions and bores terminating in openings disposed laterally of the extremities of said rounded end portions, said tube being provided intermediate its ends with a short lateral hollow shank portion externally screw threaded, a valve including a body axially, detachably and communicatively connected with said screw threaded shank and in close proximity to said tube, valve means in said body, a substantially L-shaped inlet tube having one lateral end portion communicatively connected with an intermediate portion of said valve body and having its re-



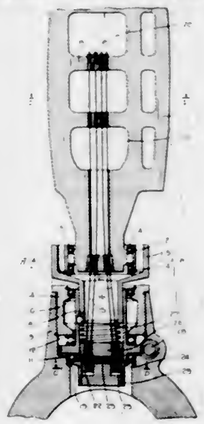
maining portion extending in spaced parallelism with the longitudinal axis of said body and projecting beyond an adjacent end of said body, a lever pivotally mounted on the projecting portion of said inlet tube and adjacent to said valve body, an operating connection between the pivotally mounted portion of said lever and valve means in said body, and a rigid L-shaped handle rigidly secured to an intermediate portion of said valve body and having an end portion disposed in close spaced parallel proximity in relation to said lever and permitting the comb to be conveniently handled and the valve to be opened and closed by the same hand used for holding said handle.

2,660,252

VARIABLE PITCH SCREW PROPELLER ARTICULATED BLADE MOUNTING

Robert Doussain, Villeurbanne, and Robert Bousson and Louis Perrier, Lyon, France, assignors to Office National d'Etudes et de Recherches Aeronautiques, Paris, France, a company of France

Application May 1, 1947, Serial No. 745,360
Claims priority, application France May 9, 1946
9 Claims. (Cl. 170—160.56)



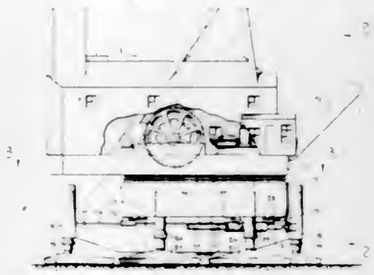
1. An articulation mounting for connecting to a hub structure a propeller blade angularly movable with respect to said hub structure about at least one axis comprising, a universal joint between said blade and said hub arranged to permit swiveling of said blade with respect to the hub, an anchor member for said blade disposed upon said hub, means for retaining said anchor member in operative association with said hub against centrifugal force, and means for anchoring said blade to said anchor member against centrifugal force independently of said universal joint, said means including an enclosed space of constant volume interposed between said anchor member and at least one blade attachment member, said enclosed space being entirely filled with a deformable mass confined within said space and of a consistency to flow in the manner of an incompressible liquid, the entire filling and the incompressibility of the mass together preventing any radial displacement of said blade away from said hub so as to relieve said joint from the action of centrifugal force, and the deformable character of said mass providing said swiveling of the blade.

2,660,253

SUPPORTING PROPULSION MEANS FOR DRAGLINES AND THE LIKE

Trevor O. Davidson, Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware

Application December 31, 1951, Serial No. 264,321
19 Claims. (Cl. 180—8)



1. In an excavator which includes a main base and a main frame rotatably supported thereon, propulsion means including: at least two vertically extensible jacks attached to and extending below the main base, to support said base when the jacks are extended; a sub-base below the main base and supportably connected therewith for relative pivotal movement about a vertical axis and for relative shiftable movement in a horizontal plane; at least two vertically extensible horizontally-spaced jacks fixed to and extending below the sub-base at points substantially removed from each other to support the sub-base, the main base and the main frame when the jacks are extended vertically; means to independently extend said jacks vertically; and means to independently or simultaneously pivot about said vertical axis and longitudinally shift horizontally the main base relative to the sub-base.

2,660,254

INWARD BANKING VEHICLE WITH COMBINED BANKING ARM AND PENDULUM AXLE CONSTRUCTION

Joachim Kolbe, Milwaukee, Wis.

Application August 18, 1947, Serial No. 769,161
24 Claims. (Cl. 180—54)

21. In a motor vehicle, a superstructure, a pair of wheels at each end of said superstructure, the wheels at the front end being steerable and those at the rear end constituting drive wheels, means including said wheels for effecting inward banking of said superstructure on turns, an engine disposed at the forward end of said superstructure and carried thereby, a differential disposed between said drive wheels and pivotally carried by said superstructure for movement relative to



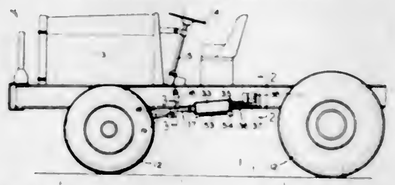
the superstructure correlated with the banking movement of the superstructure, drive connections between said differential and drive wheels, and a longitudinal drive shaft disposed between said engine and differential and having its ends carried by said superstructure, the rear end of said shaft being disposed substantially at the pivotal axis between the superstructure and differential.

2,660,255

AIR BOOSTER STEERING

Harold C. Schindler, Euclid, Ohio, assignor to The Euclid Road Machinery Co., Euclid, Ohio, a corporation of Ohio

Application February 16, 1950, Serial No. 144,446
9 Claims. (Cl. 180—79.2)



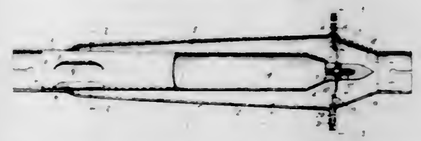
1. In booster steering apparatus including an operator operated driving steering arm and a driven steering member and including a power device having fixed and movable members and first and second opposed expansible chambers for actuating said movable member substantially in a line and in opposite directions, the combination of a housing movable with said movable member, said housing connected with said driven steering member, a valve actuator reciprocable in said housing generally along said line, said actuator operatively connected with said steering arm, means biasing said actuator toward a centered position, two sets of valves, each set including an exhaust and a supply valve rigidly connected a fixed distance apart, a push rod for each of said valve sets, said push rods operatively connected with said actuator, valve seats for said exhaust and supply valves, one of said seats for each set being fixed and the other seat being movable with its associated push rod, the valves of a set closing in the same direction, means biasing said valves toward closed position, there being pressure fluid supply and exhaust passageways communicating with said valve seats and controllable by said associated valves, there being a power fluid supply and exhaust passageway leading from a point intermediate the valve seats of one set to said first expansible chamber, there being a power fluid supply and exhaust passageway leading from a point intermediate the valve seats of the other set to said second expansible chamber, said actuator and push rods and valves and seats being so arranged that in one position said push rods bring said seats of each set nearer than said fixed distance whereby to close a supply valve and open an exhaust valve of each set and so arranged that in another position said push rods cause movement of said seats of each set farther apart than said fixed distance whereby to open a supply valve and close an exhaust valve of each set, and said valves and seats and passageways and push rods being so arranged that an open supply valve of one set communicates with one of said expansible chambers when the open exhaust valve of the other set communicates with the other of said expansible chambers.

2,660,256

EXHAUST MUFFLER WITH EXPANSION CHAMBER

George Bromhead Walker, Portarlington, Victoria, Australia

Application February 14, 1950, Serial No. 144,060
Claims priority, application Australia
March 21, 1949
1 Claim. (Cl. 181—57)



An exhaust silencer for internal combustion engine exhausts, comprising an elongated outer casing having coaxially arranged tubular inlet and outlet connections, a spider mounted in said outer casing in a position closely adjacent said outlet connection, an elongated hollow central member having one open end arranged as a sliding fit within said tubular inlet connection and the other end closed, a tapered extension fixed to said closed end and engaged by said spider so as to support and center said closed end, the portion of said outer casing intermediate said two ends enclosing between itself and said hollow central member an expansion chamber progressively increasing in area from said inlet end to said outlet end, and said hollow central member having elongated ports formed in its side walls and located exclusively in a part thereof surrounded by the smaller end of the expansion chamber.

2,660,257

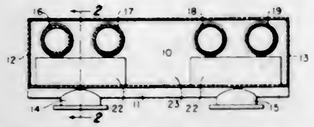
SILENCER WITH LOW BACK PRESSURE

Roland B. Bourne, West Hartford, and John P. Tyskewicz, Hartford, Conn., assignors to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut

Application April 17, 1951, Serial No. 221,348
4 Claims. (Cl. 181—49)

1. A silencer comprising a cylindrical shell, headers closing the ends of the shell to form a single chamber, at least one open-ended inlet conduit entering the cylindrical shell substan-

tially radially at one side thereof and terminating substantially flush with the shell, at least one open-ended outlet conduit entering the shell in a direction substantially at right angles to the inlet conduit and positioned remote therefrom, and a deflecting plate secured to the inside of



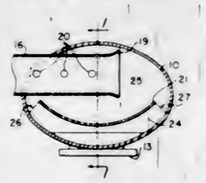
the shell along a line substantially tangent to the inlet opening and with its side and top edges spaced from the wall of the shell and from said headers, said deflecting plate being formed on a curve concave towards and extending over the inlet opening.

2,660,258

BAFFLE TYPE MUFFLER WITH A PLURALITY OF OUTLET CONDUITS

Roland B. Bourne, West Hartford, and John P. Tyskewicz, Hartford, Conn., assignors to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut

Application April 14, 1951, Serial No. 221,101
4 Claims. (Cl. 181—60)



2. A silencer comprising a cylindrical shell, headers closing the ends of the shell to form a single chamber, at least one open-ended inlet conduit entering the cylindrical shell at one side thereof, at least one open-ended outlet conduit entering the cylindrical shell at a point remote from the inlet conduit, and a plate substantially parallel to the shell, covering the open end of the inlet conduit and extending from one header to the other and circumferentially of the shell in both directions from the inlet conduit to form a narrow passageway opening into said single chamber in zones on each side of the inlet conduit between it and the outlet conduit, said plate being convex in a direction towards the inlet conduit.

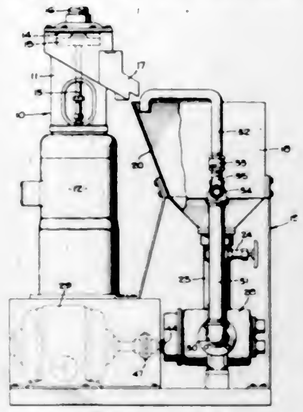
2,660,259

DEAERATING APPARATUS

Glenn H. Morehouse, Glendale, Calif., assignor to Morehouse Industries, Los Angeles, Calif., a partnership

Application May 23, 1950, Serial No. 163,758
8 Claims. (Cl. 183—2.5)

1. Apparatus for de-aerating a product such as grease or the like comprising: a chamber having an inlet and outlet for said mixed materials; means for adjustably restricting inlet flow to said chamber; rotary pumping means connected at its inlet to the chamber outlet, and including rotors having helical projections and helical recesses actuated so as to move into unmeshed relation on the inlet side of the pump and meshed relation on the outlet side of the pump; means operating said pumping means at such speed with relation to the flow of mixed materials into said chamber as to create a vacuum in the said chamber and in the inlet of said pumping means, to effect separation of air from said materials



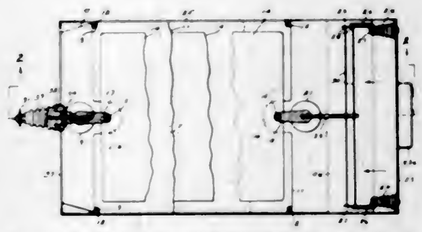
and discharge of the materials and the separated air from the pump outlet; and a by-pass for conducting mixture from the pump outlet back to the chamber inlet.

2,660,260

SUPPORT FOR CHARGING ELECTRODES FOR ELECTROSTATIC FILTERS

Jacob K. Brixius, Cleveland, and Christian W. Savitz, South Euclid, Ohio, assignors to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware

Application August 10, 1951, Serial No. 241,306
3 Claims. (Cl. 183—7)



1. In an electrostatic filter cell having a set of electrically charged collector plates alternately positioned between a set of grounded collector plates, said plates terminating in upstream edges generally normally to the direction of flow through said cell of a gaseous stream to be filtered, two outermost plates of said set of grounded plates extending upstream beyond said set of charged plates, a frame member connecting the upstream ends of said two extended plates, insulators rigidly mounted at opposite ends of said frame member centrally of said cell and extending downstream from said frame member, said insulators respectively approximately opposite the top and bottom edges of said plates, a bracket extending downstream from each of said electrodes and generally parallel to the direction of stream flow, at least one of said brackets having spring characteristics normal to the path of stream flow, each of said brackets having a through opening centrally of said cell, and there being a slot from each said opening to an edge of said bracket, a fine wire charging electrode supported between said brackets and generally parallel to said upstream edges, said fine wire

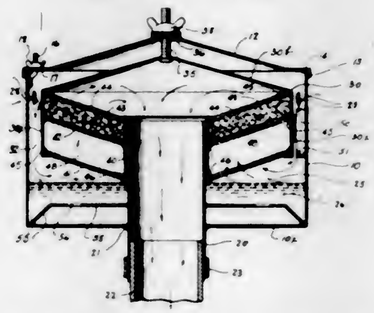
adapted to pass through said slots and having enlargements on its opposite ends too large to pass through said openings, said enlargements spaced to lie against the outermost faces of said brackets respectively and to hold said wire in tension between said brackets, and means for electrically energizing said fire wire electrode.

2,660,261

AIR CLEANER

Morris H. Jeffrey, Seattle, Wash.

Application August 15, 1951, Serial No. 241,947
3 Claims. (Cl. 183—15)



1. An air cleaner of the character described comprising a closed outer housing providing a sump in its bottom portion with liquid contained therein to substantial depth, and there being air inflow ports in the housing walls near its upper end, an air outflow tube extended from within the housing at a level substantially above the sump, downwardly through the sump and from the housing for delivery of cleaned air to a point of use, a filter housing of inverted bowl-like form enclosed in said outer housing with clearance between their side walls to define an annular air passage leading downwardly between them from said air inflow ports to the surface of liquid in the sump, and surrounding the inner end portion of the air outflow tube with substantial clearance and spaced above the sump, and providing a closed chamber within its upper portion that is in direct communication with said air outflow tube, and air filtering element contained in the lower end entrance to the filter housing between its side walls and the air outflow tube, and inclined downwardly and inwardly from the lower edge of the side walls to define a gradually constricted air passage continuing from the annular passage and leading to the filtering elements across the surface of the sump liquid and means for adjusting the filter housing vertically to cause the filtering element to be immersed in the sump liquid to more or less extent.

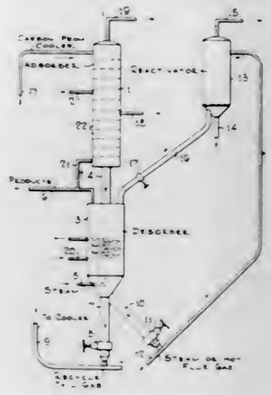
2,660,262

ADSORPTION-DESORPTION PROCESS

Edward W. S. Nicholson, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 19, 1950, Serial No. 174,675
3 Claims. (Cl. 183—114.2)

1. In the separation of components of a mixture having varying degrees of adsorbability comprising contacting the mixture in an adsorption zone with a solid adsorbent whereby the more adsorbable component is adsorbed thereon, passing the adsorbent from the adsorption zone to a desorption zone and heating the solid adsorbent in the desorption zone to remove the more adsorbable component therefrom, the improvement which comprises removing 30 to 60% of the denuded adsorbent from the desorption zone to a reactivation zone, heating the adsorbent in the reactivation zone directly by contact with hot combustion gases to a temperature higher than



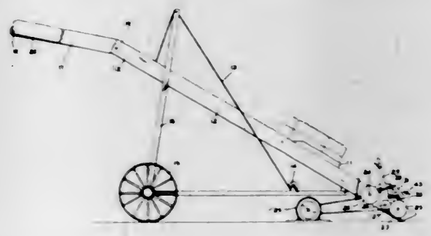
that employed in the desorption zone to remove deactivating contaminants from the adsorbent, and returning hot reactivated adsorbent from the reactivation zone to the top of the desorpion zone to supply at least part of the necessary heat to effect desorption of said more adsorbable component.

2,660,263

DRIVING MECHANISM FOR MATERIAL CONVEYERS

Herman J. Raddatz and Donald A. Raddatz, Redwood Falls, Minn.

Application September 30, 1949, Serial No. 118,918
6 Claims. (Cl. 187—10)



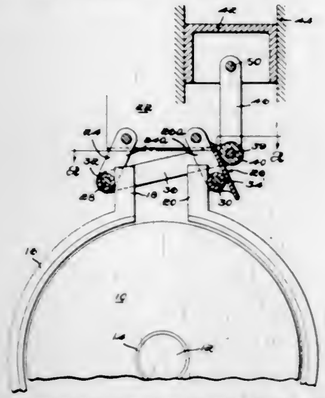
1. A driving mechanism particularly adapted for selectively driving a material carrier in both directions, said mechanism comprising a pair of spaced rotary driven members adapted to selectively drive the carrier in both directions, a shiftable rotary driving member interposed between said spaced driven members and adapted to be driven by a source of constantly driven rotary power, resilient means for urging said driving member into driving engagement with one of said driven members, a latch mechanism for positively holding said driving member in driving engagement with the other driven member, and releasable means responsive for releasing said latch mechanism to a predetermined length of travel of the conveyor in one direction, thus permitting said resilient means to shift said driving member to reverse the direction of travel of the carrier.

2,660,264

ASSEMBLAGE FOR EXERTING A CLAMPING FORCE

Paul H. Richardson, Bridgewater, Mass., assignor to Paragon Gear Works, Inc., Taunton, Mass., a corporation of Massachusetts

Application November 1, 1950, Serial No. 193,440
3 Claims. (Cl. 188—77)



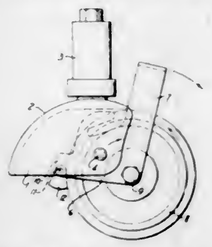
1. A clamping device comprising fixed support means, a pair of lever arms pivoted to said support means with their free ends movable toward and away from each other to clamp an article disposed therebetween, roller means mounted on each said lever arm spaced from said pivots to bear with rolling contact against said article, a linkage lever pivoted to one said lever arm and extending transversely across the second said lever arm, roller means mounted on said linkage lever to bear with rolling contact inwardly against the second said lever arm, and means for moving said linkage lever about its pivot to urge said lever arms toward each other to clamp said article.

2,660,265

BRAKING CASTER

Henry B. Middendorf, Pittsburgh, Pa., assignor to Scaffold Equipment Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application October 1, 1952, Serial No. 312,463
3 Claims. (Cl. 188—84)



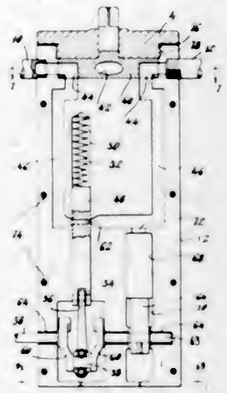
3. A braking caster comprising a wheel, a fork straddling an upper front segment of the wheel and having a pair of vertical side walls connected only at top and front by a transverse wall, a bracket having a bifurcated body inside of said fork straddling the wheel, pivot means connecting the opposite sides of said body to the adjoining side walls of the fork, means rotatably mounting the wheel in the bracket body behind said pivot means, the bracket having an arm extending upward past the rear end of said transverse wall in engagement therewith, the lower part of the bracket body having a forward portion projecting a short distance in front of the wheel, a horizontal pivot pin mounted in said forward portion of the bracket, and a braking member extending across the front of the wheel and suspended by said pin, said member being tapered upwardly in transverse section, and said arm being adapted to be swung downward to swing the wheel forward in the fork past said pivot means, whereby said transverse wall will press against the lower front edge of said braking member and thereby press that member against the wheel to hold the wheel against rotation.

2,660,266

DEVICE FOR ALTERNATINGLY INTERRUPTING THE BRAKE FLUID PRESSURE IN BRAKE LINES

Milton F. Maloney, Fairhaven, N. J.

Application July 17, 1952, Serial No. 299,381
4 Claims. (Cl. 188—152)



1 In a hydraulic brake system having a master cylinder and brake cylinders, a device for alternatingly interrupting the brake fluid pressure in brake lines comprising a brake fluid passage, a first brake fluid line connecting one terminal of said passage to the master cylinder, a second brake fluid line connecting the other terminal of said passage to the brake cylinders, an oscillating shut-off member interposed into said brake fluid passage, means for closing said passage and for directly connecting said brake fluid lines to each other, means for actuating said oscillating shut-off member, means for actuating said passage closing and brake fluid line connecting means, and speed-controlled means for connecting said oscillating shut-off member to said means for actuating the shut-off member.

2,660,267

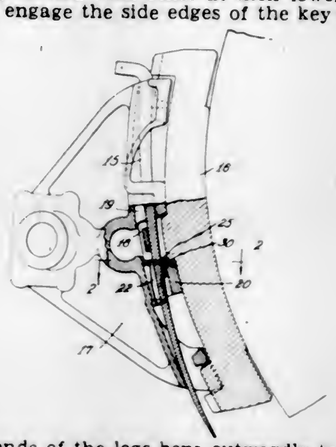
BRAKEHEAD WEAR PLATE AND KEY WEDGE

Theodore J. Sweger and Malcolm S. Johnson, Chicago, Ill., assignors to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois

Application June 2, 1950, Serial No. 165,692
3 Claims. (Cl. 188—236)

1. A brake head wear receiving device and key wedge means comprising, in combination with a brake head, a brake shoe, the head and shoe on their opposing sides being provided with vertically apertured interengaging lugs and an elongated shoe locking key disposed through the registered apertures of the head and shoe lugs for

holding the shoe in place, a pair of spaced flat plate-like portions adapted to be disposed between the opposing faces of the head and shoe lugs, with the adjacent ends of said portions provided with downwardly disposed legs normally sloping toward each other at their lower ends to firmly engage the side edges of the key with the



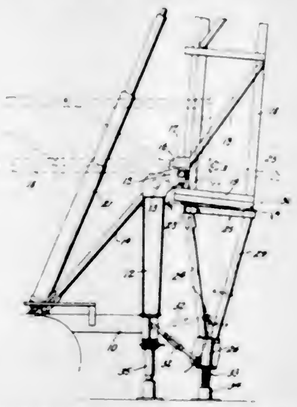
lower ends of the legs bent outwardly to provide head lug engaging toes; said legs adjacent their juncture with the plate-like portions being connected by an integral bar provided with an upwardly extending tongue adapted to bear against the forward face of said key.

2,660,268

HINGED BASE FRAME FOR PORTABLE DERRICK MASTS

John P. Selberg, Los Angeles, Calif., assignor to International Derrick & Equipment Company, Columbus, Ohio, a corporation of Ohio

Application January 26, 1949, Serial No. 72,796
6 Claims. (Cl. 189—11)



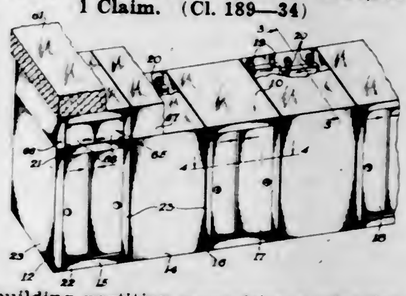
1. In a portable derrick rig including a mobile base, a mast pivotally carried by said base for swinging movement between prone and upright positions, said mast terminating in a base end portion located substantially in the vertical plane of one end of said base, and means to swing said mast between said prone and upright positions; a substantially vertically arranged ground-engaging base frame for supporting the base portion of said mast when the latter occupies an upright position, said base frame being hingedly connected with the base end portion of said mast and pivotally linked to said mobile base frame for limited movement in a substantially vertical plane only upon swinging movement of said mast.

2,660,269

CLOSET AND WALL CONSTRUCTION

Irving P. Whitehouse, South Euclid, and Wolfgang W. Krauss, Cleveland, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

Application June 24, 1948, Serial No. 34,964
1 Claim. (Cl. 189—34)



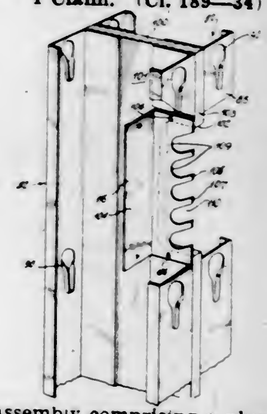
A building partition comprising a plurality of fabricated sheet metal closets extending substantially from floor to ceiling arranged in a row and secured together, said closets each having top, bottom and side walls, a back wall and a front wall, said front wall comprising a transom, a sill and a pair of columns joining the ends of said transom and sill at the front corners of the closet, said transom, sill and columns together defining a generally rectangular opening, said transom being of hollow rectangular sections, door supporting means including channels secured and housed within said transom, a pair of fabricated sheet metal doors movable horizontally past each other in said opening and having longitudinally extending recesses in their lower edge portions and door hanger means secured to the upper ends of the doors and carried by said channels and two spaced apart roller guides extending upwardly from the sill and received in said recesses in the lower edge portions of the doors.

2,660,270

UNIT PARTITION WALL CONSTRUCTION

Edward M. Jenkins, Somerville, and Thomas L. Acken, Jr., New Brunswick, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York

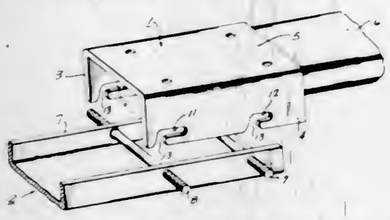
Application September 10, 1946, Serial No. 695,866
1 Claim. (Cl. 189—34)



A wall assembly comprising a plurality of wall panels, access panels, and spaced stud assemblies,

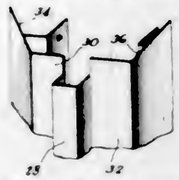
each of said stud assemblies comprising an elongated vertically extending web having side faces and a forward edge surface extending transversely thereof and a notch extending inwardly of the web through said forward edge surface, flanged members extending vertically along and secured to said web and terminating adjacent the notch, each of said flanged members having one flange adjacent a side face of the web and a second flange having a forward face lying substantially in the plane of said forward edge surface of the web and having means removably securing at least one of said wall panels thereto, an angle plate having a first flange attached to a side face of the web and extending vertically therealong and parallel thereto, said first flange of said angle plate spanning said notch and having a forward edge and notches extending through said forward edge and downwardly and inwardly therefrom, the forward edge surface of said web lying at least as far forward as the forward edge of said first flange of said angle plate, said angle plate having a second flange extending laterally of its said first flange rearwardly of the inner terminals of its said notches, a strip, and means removably supporting said strip from said second flange of said angle plate in spaced relationship therefrom and substantially parallel thereto along said first flange of said angle plate and transversely of the notches therein and in forwardly spaced relation to the inner terminals of said angle plate notches and rearwardly of said forward edge surface of the web, and means removably securing said access panels opposite said angle plate notches, whereby piping may be supported by said angle plate in said angle plate notches and retained therein by said strip.

2,660,271
TRACTOR HITCH
Arleigh Glynn Hupp, South Milwaukee, Wis., assignor to The Midland Co., South Milwaukee, Wis., a corporation of Wisconsin
Application July 29, 1948, Serial No. 41,230
6 Claims. (Cl. 189—36)



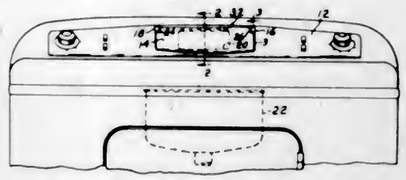
1. A tractor hitch of the class described, comprising a pair of frame members disposed in superimposed relation, a pair of laterally spaced longitudinally disposed parallel vertical side plates carried by the upper of said frame members and constituting one hitch member, a pair of horizontally spaced transverse parallel bars carried by the lower of said frame members and constituting a second hitch member assembled with said first named hitch member, and a pair of slots receiving said bars and disposed horizontally in each side plate, said slots being spaced longitudinally of the side plate to correspond generally to the spacing of said transverse bars, the forward end of each slot opening downwardly through the lower edge of the corresponding side plate to provide a mouth therefor for entrance of the corresponding bar into the respective slot, the forward slot in each side plate being longer than the rear slot and having its mouth spaced from the mouth of the rear slot a greater distance than the spacing of said bars whereby the forward bar enters the horizontal portion of the forward slot before the rear bar enters the mouth of the rear slot, and the rear end of each slot being closed to hold the corresponding bar against forward thrust by said upper frame member.

2,660,272
DOORFRAME
Fredrick H. Walterman and John P. Malmrose, Kewanee, Ill., assignors to Kewanee Manufacturing Company, Kewanee, Ill., a corporation of Illinois
Application December 4, 1951, Serial No. 259,786
3 Claims. (Cl. 189—46)



1. A substantially symmetrical, metal doorframe piece adapted to be applied as a moulding to a wooden doorframe which includes a rectangular buck having a width of approximately four inches formed from a single sheet of metal and having a substantially centrally located doorstop rib bent forwardly from the main body of the piece, said main body including lateral webs extending at right angles to the rib on both sides thereof and providing duplicate door-receiving surfaces which, with the central rib, are at least equal in extent to said width of the buck, the remote margin of each such web then being bent rearwardly at an oblique angle to provide a bevel facing, then forwardly against said facing, and then connecting with a flange that extends rearwardly at right angles to said door receiving surfaces for attachment to said wooden doorframe, said flange being substantially in alignment with the juncture of said web and said bevel facing, whereby said door-receiving surfaces may lie parallel to and closely adjacent to the adjacent face of the buck over which the doorframe piece is to be mounted.

2,660,273
LAUNDRY APPLIANCE CONTROL PANEL CONSTRUCTION
John P. Rogers, Liverpool, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application September 15, 1952, Serial No. 309,725
2 Claims. (Cl. 189—46)



1. In a hinged door construction for a panel opening, a panel member having an opening therein, and a door member hinged thereon to close said opening, said door member having opposed pintles projecting from its opposite end edges, adjacent a connecting side edge, said panel member having integral upstanding journal-receiving boxes for receiving said pintles, said boxes being open on the sides facing one another, and on the sides facing in the direction of the door when in closed position, and having a top and rear wall adapted to tangentially engage the pintle and a pintle end thrust wall, whereby the door pintles may be positioned within said journal boxes by movement transverse of the pintle axis, said panel having a journal access aperture extending therethrough in substantial alignment with the interior of each of said journal boxes, and keeper members positioned in said access apertures, each having a transverse shoulder and a tongue, the latter projecting into said journal box forward of the wall thereof opposite the door facing open side, said tongue and shoulder being spaced from the tangentially pintle-engaged journal box walls to provide bearing surfaces for said pintle diametrically opposed to said last-named journal box walls.

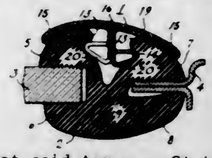
2,660,274
PUSH-OUT WINDOW STRUCTURE
Francis E. Donathan, Lima, Ohio, assignor to Superior Coach Corporation, Lima, Ohio, a corporation of Ohio
Application August 21, 1952, Serial No. 305,665
7 Claims. (Cl. 189—64)



1. An escape window, comprising a casing forming a window opening, guide strips mounted in opposite side walls of the opening and transversely movable outwardly relative thereto, a lower sash and an upper sash carried by said strips and transversely movable therewith, the upper sash being guided by the strips for raising and lowering movements relative thereto, at least one detent stud in the lower portion of the casing normally standing in position to lock the sash and strips against outward movement relative to the casing, said stud being moved to unlocking position by a forceful lowering of the upper sash thereagainst.

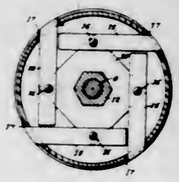
2,660,275
GASKET
Howard G. Beck, Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application January 14, 1950, Serial No. 138,672
7 Claims. (Cl. 189—78)

6. A combination metal trim strip and spreader for insertion in the opening in linear mountings of rubberlike material intermediate the panel edge receiving grooves thereof, comprising a linear, convex-in-cross-section, trim portion covering the outer surface of one side of the mounting and a central rib with laterally extending, alternately spaced tongues being so pro-



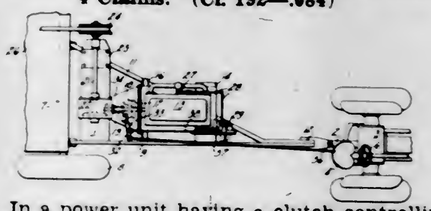
portioned that said tongues fit in said opening with a spreading and wedging action, said strip being relatively flexible in the plane perpendicular to the plane of the central rib.

2,660,276
GROUND ANCHOR
Harry B. McKee, Newport Beach, Calif.
Application October 31, 1950, Serial No. 193,237
1 Claim. (Cl. 189—92)



In a ground anchor: a cylindrical case for insertion in a prepared ground hole in substantially vertical axial position, said case having end closures and having a plurality of circumferentially extending short slots; a shaft axially mounted in said case and rotatably supported by one of said closures and extending upwardly from said case; support means carried by said shaft within said case; and blades respective to said slots pivotally carried by said support means for simultaneous and horizontal like movement, and having their outer ends guided in said slots for extension and retraction therethrough when said shaft is rotated; said slots closely fitting said blades to provide opposed fulcrums upon which said blades may swing; said blades pivoting on said support means in an orbit spaced medially between said shaft and said case; at least one of said blades extending inwardly from the pivotal axis thereof so as when retracted, to abut upon an adjacent blade while the outer ends of said blades are still engaged in the slots respective thereto, said abutting then arresting further retractive movement.

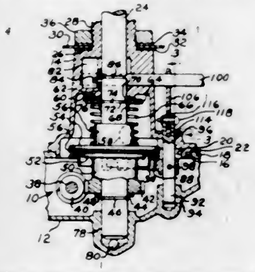
2,660,277
REMOTE CONTROL FOR POWER UNITS
Robert L. Worrell, La Porte, Harry J. Lehker, North Liberty, and Francis H. Vogelsang, La Porte, Ind., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application March 18, 1950, Serial No. 150,402
4 Claims. (Cl. 192—.084)



1. In a power unit having a clutch controlling the transmission of power from said unit to a

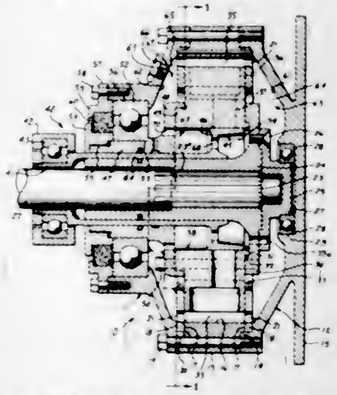
mechanism adapted to be connected therewith, said clutch including a shiftable element and biasing means urging said shiftable element to its power transmitting position, a clutch lever operatively associated with said shiftable element for selectively moving the latter to a position interrupting the transmission of power therethrough, and having a throttle control lever including a biasing means urging said throttle lever to a preselected power output position, said throttle lever being movable a predetermined distance away from said preselected position in the same direction as said clutch lever moves in effecting an interruption of power transmission, an improved control mechanism comprising an elongated rigid element mounted on said unit for reciprocation in the general direction of said lever movement and having one end thereof pivotally connected with said clutch lever, said rigid element extending away from said clutch lever and past said throttle lever in proximity to the latter, a part carried by said rigid element in position for engagement with said throttle lever as said rigid element is moved therepast in response to a power interrupting movement of said clutch lever, said part having a lost motion connection with said rigid element effective to move said throttle lever said predetermined distance and retain the latter thus positioned as said rigid element is moved therepast in response to a movement of said clutch lever from its power transmitting position to its power interrupting position, a latching device carried by said unit and presenting a retaining element disposed alongside a portion of said rigid element in shiftable coaction therewith: said latch element retainably engaging said rigid element upon the latter having been moved therepast in a direction interrupting said power transmission and then released for return to its normal power transmitting position by the action of said biasing means and being shifted to a rigid element releasing position upon the latter again moving therepast in a power interrupting direction, said biasing means being then operative to return said levers and thereby said rigid element to their normal power transmitting positions, whereupon the next power interrupting movement thereof shifts said latch element to its position for retainable engagement with said rigid element, and means for effecting a power interrupting movement of said clutch lever.

2,660,278
CLUTCH AND BRAKE FOR WASHING MACHINES
William G. Landwier, Fayetteville, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application July 18, 1950, Serial No. 174,398
4 Claims. (Cl. 192—18)



1. A washing machine of the centrifugal extractor type comprising, in combination, a vertical extractor shaft, a transmission casing member affording a bearing for said shaft, a clutch shifter slidably mounted in said casing member, and projecting outwardly therefrom, a rock shaft journaled in said casing member transverse to the line of movement of said shifter, and a cam member on said rock shaft lying and rocking substantially in the plane of said shifter, resilient biasing means for said shifter, said cam member having a spiral cam track bounded by detent recesses at either end, and cam follower means on said shifter riding on said cam and adapted to hold said cam when said follower is positioned in either recess and there held by said biasing means.

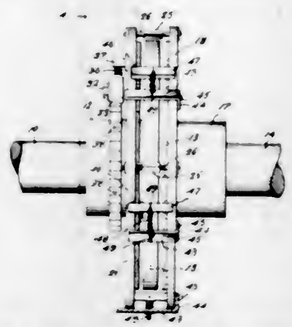
2,660,279
FLUID CLUTCH
Lorne F. Knight, Toronto, Ontario, Canada, assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada
Application May 13, 1949, Serial No. 92,981
6 Claims. (Cl. 192—58)



1. In a hydraulic clutch of the sliding vane class, the combination of: a housing in the form of an outer rotatable casing forming one clutch element; a vane carrying rotor of annular form in said casing; a rotor carrier in the form of a hollow shaft flared at one end to provide a radially extending mounting flange thereon; means supporting said rotor carrier co-axially with said rotatable casing; means for fastening said mounting flange to said rotor to support the latter co-axially with said rotor carrier and in annular spaced apart relation to the hollow shaft portion of the latter to define an annular chamber between said rotor and said rotor carrier; radially directed fluid conducting passages extending through said rotor between the sliding vanes carried thereby; a valve of annular form designed to articulate over the inner terminus of the passages of said rotor and slidable axially in said annular chamber; and a sleeve forming a part of said valve supported by the hollow shaft portion of said rotor carrier and extending therebeyond exteriorly of the housing in a direction away from the flange portion of the rotor carrier.

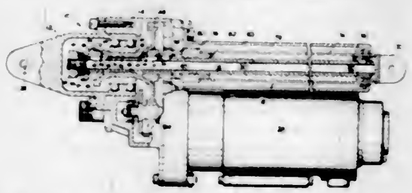
2,660,280
AUTOMATIC FRICTION TYPE CLUTCH
Robert H. Shaddox, Corpus Christi, Tex.
Application October 20, 1950, Serial No. 191,148
4 Claims. (Cl. 192—68)

1. A device of the character described comprising a drive shaft, a driven shaft in axial alignment and adjacent to said drive shaft, a central dual-faced clutch plate affixed to said drive shaft, a collar splined upon the driven shaft, a reciprocal clutch plate affixed to said collar, a floating clutch plate surrounding the drive shaft upon the opposite side of said central clutch plate to said plate affixed to said collar, a plurality of circumferentially spaced support arms affixed to the periphery of the plate carried by the collar and extending beyond the floating



clutch plate and in contact therewith, a plurality of stop arms affixed in spaced circumferential arrangement to the periphery of the plate surrounding the drive shaft and extending longitudinally to embrace the plate carried by the collar, a tension spring interconnecting each stop arm with its adjacent support arm, a plurality of circumferentially spaced spreader jacks interconnecting the floating clutch plate and the reciprocal clutch plate, and means for moving said floating clutch and said reciprocal clutch plate into and out of engagement with said central clutch plate.

2,660,281
SLIP CLUTCH FOR SCREW ACTUATORS
Leonard Ochtman, Ridgewood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application February 25, 1949, Serial No. 78,363
5 Claims. (Cl. 192—141)



1. In an actuator, the combination of a housing having an actuator pivot mounting end, a reversibly rotatable shaft including a longitudinal inner end section journaled in said housing adjacent to said pivot end, said section carrying an outer end clutch jaw and the shaft having an outer end screw portion protruding from said jaw, an elongated element along said screw having an outer end constituting the other actuator pivot mounting end and embodying an inner end nut on said screw, said section having a clutch jaw complemental to said first clutch jaw, said section including a length of reduced diameter providing a shoulder axially inwardly of said jaws and a screw shank of further reduced diameter providing a stop axially inwardly of said shoulder, a pair of rings axially spaced from each other around and secured to said length for rotation

therewith and axial movement relative thereto and having peripheral friction surfaces axially facing each other, one of said rings being backed by said shoulder, a bearing held to said housing axially intermediate said surfaces and adapted to resist thrust in each axial direction, driving gear and annulus members around said length axially embracing said bearing between said rings and having friction surfaces complemental to said ring friction surfaces, respectively, said gear and annulus being connected for rotation with and axial movement relative to each other, shim means next to the other of said rings and spring means next to said shim means around said length, and a washer against said stop next to said spring means, a washer lock next to said washer, and a nut next and locked to said lock around said screw shank.

2,660,282
VENDING MACHINE
Arthur R. Gross, St. Paul, Minn.
Original application December 30, 1948, Serial No. 68,331. Divided and this application November 10, 1949, Serial No. 126,520
1 Claim. (Cl. 194—10)



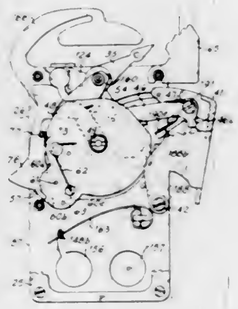
In a machine of the class described, a magazine for merchandise to be dispensed, electrically-operated delivery mechanism for effecting delivery of a predetermined amount of merchandise from the magazine for each cycle of operation, said delivery mechanism comprising an electric motor, a normally open initiating circuit for said motor, a control circuit for said initiating circuit comprising normally open serially connected first and second switches, the closing of the initiating circuit being dependent upon and responsive to coincidental closing of the said first and second switches, coin controlled mechanism for closing the first switch responsive to payment of predetermined money in coin, the said coin-controlled mechanism comprising a switch actuating device having a normal switch open position and an operative switch closed position, means yieldingly biasing said device toward its normal position, means releasably retaining said device in its operative switch closed position, mechanism responsive to the said coincidental closing of the first and second switches to reset the switch actuating device of the coin controlled mechanism to its normal switch open position immediately upon initiation of delivery mechanism operation, means defining a transfer station for temporary retention of coins after they have acted upon the coin controlled mechanism, means defining a coin return station, a depository internally of the machine, a mechanism for delivering coins from the transfer station to the depository responsive to operation of the delivery mechanism, and manually operated mechanism for releasing the releasable means for retaining the coin controlled mechanism for the first switch in its operative switch closed position

prior to closing of the control circuit to permit return of the first switch to its open position and for simultaneously returning coins from the transfer station to the coin return station.

2,660,283
PARKING METER

Robert F. Broussard, Burbank, Calif., Henry J. Miller and Lester D. Sollenberger, Chicago, Ill., and Sherman L. Christensen, Los Angeles, Calif., assignors, by mesne assignments, to Miller Meters, Inc., Chicago, Ill., a corporation of Illinois

Application February 2, 1950, Serial No. 142,042
15 Claims. (Cl. 194—72)

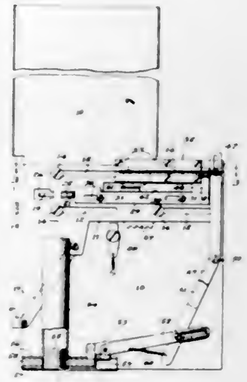


1. In a coin-controlled device, a rotary coin carrier having a coin-receiving pocket and a peripheral opening leading into said pocket for admission of a coin, spring means biasing said carrier rotationally toward a normal coin-receiving position, mechanism for rotating the coin carrier from its normal position to a coin-discharge position, said mechanism including a rotary member co-axial with the coin carrier and positioned adjacent thereto, said rotary member being spring-biased toward a normal rotative position and rotatable through a predetermined angle, in a direction opposite to the direction of rotation of the coin carrier from coin-receiving to coin-discharge position, to an alternative rotative position, latch means operative to drivably intercouple said carrier and rotary member when said member reaches its alternate position whereby subsequently to effect rotation of the carrier from normal to coin-discharge position in response to the return of said member to its normal position, means operative to unlatch the carrier upon its arrival at coin-discharge position, a rocker mounted on the coin carrier, said rocker having a portion adapted to enter the coin-receiving pocket laterally in such manner as to contact the side of an unperforated coin therein or, in the absence of such a coin, to extend farther into or across the said pocket, a spring biasing said rocker in the direction to withdraw said portion thereof from the pocket, means carried by said rotary member and effective upon rotation of the latter to rotate the rocker in the direction tending to cause said portion to enter the coin pocket, a protuberance on the rotary member engageable by the rocker upon rotation of the rotary member and thus effective to restrict rotation of the rotary member to less than the aforementioned predetermined distance except when said rocker portion is prevented from fully entering said pocket as by the presence therein of a proper coin, said protuberance being ineffective upon the rocker and thus incapable of restricting rotation of the rotary member whenever a proper coin is in the pocket.

2,660,284
CONTROL APPARATUS FOR VENDING MACHINES

Ernest E. York, Portland, Maine, assignor to American Coin Changer Corp., Boston, Mass., a corporation of Maine

Application October 26, 1948, Serial No. 56,569
2 Claims. (Cl. 194—80)

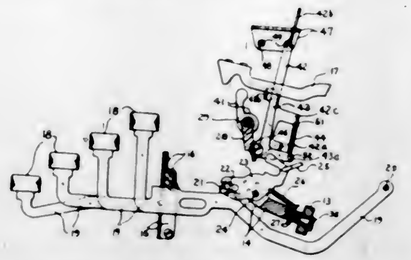


1. In a coin-controlled device, a support structure, a coin-receiving member mounted thereon for sliding movement through a predetermined path, said member having a plurality of coin tracks for receiving coins of low, intermediate and high value, a stop yieldably mounted on said support to limit the movement of said coin-receiving member to less than the extent of said predetermined path, a coin carrier member secured to said coin-receiving member adjacent each of said tracks at one side thereof, a coin carriable member slidably mounted adjacent each of said tracks extending freely through the corresponding coin-carrier member and terminating at the side of its respective track opposite said coin carrier member in a coin-engaging abutment spaced from said coin carrier member by a distance slightly greater than the diameter of the coin receivable in said track whereby each said coin carriable member moves in response to movement of its respective carrier member when a coin is in said track, stop displacing means slidably mounted on said coin receiving member yieldably secured to said supporting structure to normally maintain a stationary position while said coin receiving member is moving to said stop, said stop displacing means being secured to the coin carriable member adjacent the track for the lowest value coins and movable with said member when a coin is in said track in response to movement of said coin-receiving member to displace said stop from the path of said coin-receiving member, the coin carriable member adjacent the track for the lowest value coins being movable independently of the remaining coin carriable members, said last-named coin carriable members being movable independently of each other and being arranged so that movement of each of them causes corresponding movement of said first-named coin carriable member.

2,660,285
TYPEWRITER KEY TOUCH CONTROLLING MEANS

Charles H. Kennedy, Jr., North Syracuse, N. Y., assignor to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York

Application April 24, 1951, Serial No. 222,643
9 Claims. (Cl. 197—33)



1. A variable key touch typewriter having, in combination, a universal bar, key actions individually operable to impart finger powered strokes to the bar, a return spring connected with the bar to stroke the bar to a rest position, an auxiliary spring for regulating the operating touch of the key actions, an anchor for the auxiliary spring drivable by finger powered strokes of the bar thereagainst and returnable by said auxiliary spring, and a holding anchor for the auxiliary spring adjustable to arrest said universal bar drivable anchor in different selected returned positions in all of which said auxiliary spring is maintained under the same stress by its said anchors.

2,660,286
MOVING STAIRWAY HANDRAIL SUPPORTING DEVICE

Samuel Gustave Margles, Brooklyn, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey

Application September 2, 1950, Serial No. 182,954
2 Claims. (Cl. 198—16)

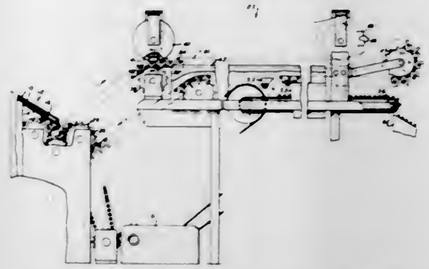


1. A reverse bend tensioning device for the return run of a moving stairway handrail, said handrail being in the form of a continuous loop passing around a newel wheel at each end of the stairway and having a single wrap traction drive, said tensioning device comprising; a plurality of adjoining rollers over which the back of the handrail runs, said rollers being arranged in a long arc of large radius extending in a reverse bend from the upper newel wheel to well down the incline of the stairway; an arcuate support for said rollers adjustably mounted on the stairway balustrade framework to enable the tension in the handrail to be adjusted; and a guide mounted on said arcuate support for laterally guiding said handrail on said rollers.

2,660,287
ARTICLE-HANDLING APPARATUS

William L. Ames, Middle River, and Francis W. Hennessey, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application November 13, 1950, Serial No. 195,402
4 Claims. (Cl. 198—26)

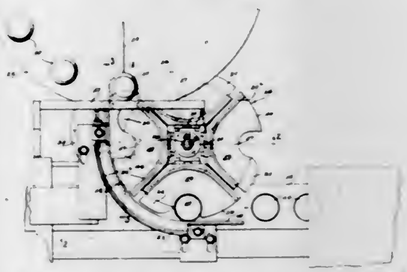


1. An article-handling apparatus, which comprises a guide of inverted V-shape in cross-section, means for advancing cordage extending across said guide along the guide, a second guide of similar cross-section positioned below the first-mentioned guide and extending along a portion of the length of the first guide, a belt conveyer positioned below the guides, an endless conveyer travelling above the first-mentioned guide and between the guides, means for gripping cords carried by the endless conveyer, and means for removing cords from the cord-gripping means and for placing them upon the belt conveyer.

2,660,288
ARTICLE HANDLING APPARATUS

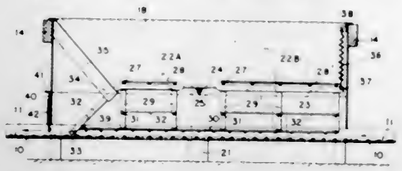
Melvin O. Hansen, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application February 16, 1951, Serial No. 211,400
10 Claims. (Cl. 198—33)



1. The combination comprising a horizontal circular table mounted for rotation about its axis for successively bringing inverted tumblers, positioned thereon along its periphery, to an uprighting station, a horizontal bar tangent to said table at the uprighting station, means for forcing each tumbler against said bar as it is brought to the uprighting station and causing it to be pivoted about said bar and fall freely, a horizontal rotating disc at a lower level than said circular table and in the vicinity of the uprighting station, a horizontally traveling conveyor adjacent to the rotating disc and at the same level as said rotating disc, means for guiding each said freely falling tumbler onto the rotating disc and then moving said tumbler along said disc to the conveyor and positioning it thereon.

2,660,289
FEEDER
George D. Friedel, Seaford, Del.
Application November 21, 1949, Serial No. 128,653
5 Claims. (Cl. 198—59)



1. A hopper for poultry feeds adapted to be located above a feed trough comprising a power driven chain belt movable in the trough, a longitudinally extending member pivotally mounted within the hopper for movement about a horizontal axis, agitating elements supported by the longitudinally extending member, an actuating arm carried by the longitudinally extending member and having its free end forwardly of the longitudinally extending member and in contact with the chain belt, and resilient means operatively connected to the longitudinally extending member and the hopper to maintain the free end of the arm against the belt whereby movement of the belt will alternately raise and lower the arm to rock the longitudinally extending member about its pivot so that the agitating elements will effect a free flow of the feed into the trough.

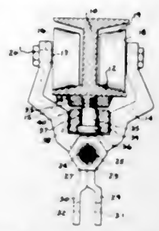
2,660,290
BOTTLE CARRYING POCKET
John B. McCabe and Alexander H. Luedicke, Jr., Milwaukee, Wis., assignors, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill., a corporation of Delaware
Application May 9, 1951, Serial No. 225,316
12 Claims. (Cl. 198—131)



1. In combination: a tubular bottle carrying pocket having an open bottom and having a neck portion of reduced diameter; and rollably mounted antifriction means mounted in the neck portion of said pocket and positioned so that it is adapted to engage the neck portion of a bottle placed in said pocket through said bottom opening.

2,660,291
TROLLEY CONVEYER
Leo T. Daigle, Detroit, Mich., assignor to Cable-Link Corporation, Detroit, Mich., a corporation of Michigan
Application August 9, 1952, Serial No. 303,546
5 Claims. (Cl. 198—177)

1. In a conveyor movable along a horizontally curved beam, a pair of opposed substantially upright arms arranged upon opposite sides of said beam, rollers journaled upon the upper ends of said arms and riding upon the flanges on opposite sides of said beam, said arms intermediate their ends being transversely apertured to receive a longitudinally movable cable, means securing said cable to said arms, and a plurality of longitudinally spaced rollers loosely journaled upon an depending from the undersurface of said curved beam, cooperable with interior surface portions of said arms for guiding the arms along



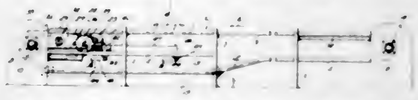
and around said curved beam and maintaining the position of the arm rollers on said beam spaced from its web.

2,660,292
FLAT TOP CONVEYER CHAIN
William D. Cheesman, Cudahy, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 2, 1950, Serial No. 198,871
9 Claims. (Cl. 198—189)



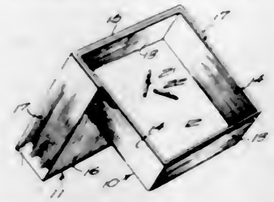
9. In a chain comprising links of the type having a flat central portion and a contiguous curled portion at one end providing a transverse, generally cylindrical opening of substantial length for enclosing a pin connecting said link with an adjacent link in the chain strand, the improvement which resides in the provision of a curled portion which has a recess on the side which engages the pin to produce engagement between the pin and curled portion at the ends as well as at the center of the curled portion, said recess being produced by a cold coined impression on the inside of the curled portion prior to curling, the depth of the impression compensating for the flaring of the end portions of the curl during curling, whereby greater area of contact between the pin and the curled portion is obtained.

2,660,293
CONVEYER APPARATUS
Glenn W. Merritt, Bowerston, Ohio, assignor to The Nolan Company, Bowerston, Ohio, a corporation of Ohio
Application May 21, 1951, Serial No. 227,339
4 Claims. (Cl. 198—229)



3. Conveyor apparatus for the decoration of ceramic articles comprising: an elongated frame structure; upper and lower sets of longitudinally extending stationary guides carried by the opposite sides of said frame structure; head and foot shafts journaled transversely in the ends of said frame structure; sprockets mounted on said shafts; endless rollered chains passing around said sprockets and along the guides of said frame structure, said chains forming endless conveyor belts having upper and lower runs; transversely extending, longitudinally spaced, parallel, product-supporting trays carried by said chains; vertically movable guides carried by the lower part of said frame structure and cooperative with said first-named guides for the regulated travel of said chains during travel thereof along the lower runs thereof; a stationary liquid-holding tank arranged beneath the movable chain guide; a motor for driving said foot shaft; oscillatory crank members mounted on said frame structure; means actuated by the foot shaft driving means for oscillating said crank members; and link means uniting said crank members with said vertically movable guides for imparting vertically directed undulatory movement thereto.

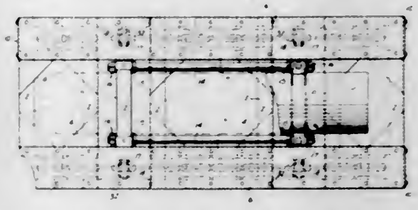
2,660,294
DISPLAY BOX
Lewis Douglas Young, Providence, R. I., assignor to Douglas Young, Inc., a corporation of Rhode Island
Application June 26, 1951, Serial No. 233,653
2 Claims. (Cl. 206—45.2)



1. A display box comprising two sections, a first section having a bottom wall with upstanding side and end walls at right angles thereto, a second section having bottom and top walls with connecting side walls and an open end of a size to telescopingly fit endwise through its open end over the first section, said first section nesting within said second section, the bottom wall of the second section being of a length less than the top wall and the side walls, and an elastic element anchored to the bottom wall of the first section and to the second section at a point remote from said open end to draw the sections into nesting telescoping relation when the bottom walls are parallel or hold the bottom wall in right angular relation with an end wall of the first section in contact with the under surface of the top wall of the second section.

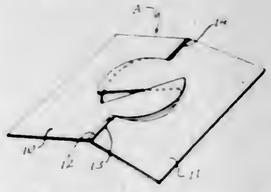
2,660,295
ARTICLE ISOLATING AND SHOCK ABSORBING SHIPPING CONTAINER
Howard G. Beck, Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application June 29, 1950, Serial No. 171,221
7 Claims. (Cl. 206—46)

6. An article isolating and cushioning shipping container comprising an outer rigid frame having upright side walls, longitudinally spaced bearing plates attached to the inner face of said wall, each of said plates having a flat inner bearing face provided with a concave socket, an inner rigid article carrying frame having rounded bearing members mounted for lateral movement therein and adapted to slide on said plates and engage in said sockets, springs pressing said bearing members toward said plates to normally hold the same in said sockets so that the weight of the inner frame is normally carried by said bearing members, longitudinally spaced concave seats carried by said walls, opposed concave seats carried by the inner frame, and elastic rubber balls confined between said seats in rolling engagement therewith to yieldably resist movements of the inner frame in the outer in any



direction parallel to said side walls, each of said seats having a central depression to receive the ball confined by it, the said depression having a marginal wall that is more steeply inclined along radial lines than other portions of the seat whereby said balls offer a relatively high resistance to initial movements of the inner frame in the outer.

2,660,296
ROLL SUPPORT
Robert M. Dunning, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application February 21, 1951, Serial No. 212,179
7 Claims. (Cl. 206—46)

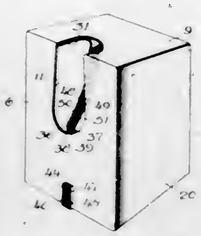


1. A pad for holding a hollow article including a paper board body divided along a fold line into two foldably connected panels, a tab connected to one of said panels and extending beyond the line of fold into the other of said panels, and a tab on said other panel extending beyond the common line of fold into said one panel, said tabs having substantially arcuate outer edges, the centers of arcuation of said tabs being spaced apart in flat condition of the pad so that the tabs project beyond a circle having a radius equal to the radius of curvature of said tabs and having its center midway between the centers of arcuation of said tabs.

2,660,297
BICYCLE WHEEL BRACE
Julian Carroll D'Esposito, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application February 27, 1951, Serial No. 212,988
11 Claims. (Cl. 206—46)

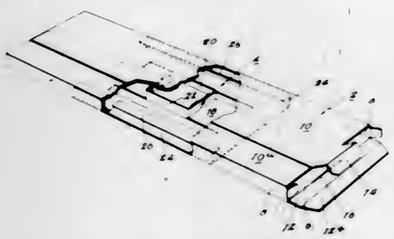
1. A packing brace for absorbing the end thrust of a relatively narrow article disposed within an enclosing container comprising a front wall panel, a pair of side wall panels integral therewith, a plurality of vertically extending parallel panels positioned rearwardly of the front wall panel at right angles thereto and between the side wall panels, a rear wall panel connecting each of said

parallel panels to one of the side walls and serving to locate the vertical rear edge of the parallel panel, means connecting the forward edge of each of said parallel panels to the front wall panel and serving to locate the front edge of the vertical panel, a portion of the front edge of



each of said parallel panels being spaced rearwardly from the front wall panel, and a top wall panel hinged to the front wall panel, a portion of the front and top wall panels being cut away to expose said rearwardly spaced portions of the front edges of the parallel panels.

2,660,298
FORM FOR TEXTILE MATERIAL OR THE LIKE
Jacob M. Field, Brooklyn, N. Y.
Application September 3, 1947, Serial No. 771,877
6 Claims. (Cl. 206—50)



5. As a new article of manufacture, a form about which sheet material may be wound, said form being composed entirely of foldable material and comprising an outer elongated member of relatively shallow depth and an inner brace member centrally disposed within said outer member, said brace member including a base portion of a width substantially equal to the internal width of the outer member and having strips integrally connected to said base section, each of said strips having its ends interlocking with corresponding ends of another of said strips to form an upstanding substantially ring-shaped brace.

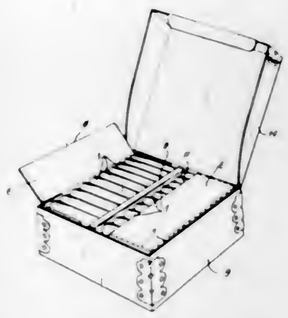
2,660,299
WALL-COVERING PACKAGE
Alfred E. Van Wirt, Glens Falls, N. Y., assignor to Imperial Paper and Color Corporation, Glens Falls, N. Y., a corporation of New York
Application October 8, 1952, Serial No. 313,721
1 Claim. (Cl. 206—59)

An improved package of wall-covering comprising a roll of wall-covering having trimmed edges, an end disc of stiff protecting material over each end of the roll, a sheet of paper wrapped over the roll on the bias and providing an exposed edge extending spirally of the package, the sides of said sheet at the end of the roll extending beyond the discs and being in the form of strong protecting beads overlying the peripheral edge portions of the discs and securing them in position, said beads preventing unwinding of the sheet, the sides of the sheet of the package being folded back on themseleves to such extent that the distance between the inner edges of



the folded-back portion is less than the length of the roll, said folded-back portions overlapping the ends of the roll to provide reinforced portions opposite the end portions of the roll of wall-covering as well as reinforced protecting beads, said folds being secured together by adhesive which is set after the forming of the beads.

2,660,300
PACKAGING EXPLOSIVES
Theron F. Pauls, Alton, Ill., assignor to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware
Application June 17, 1950, Serial No. 168,735
2 Claims. (Cl. 206—65)

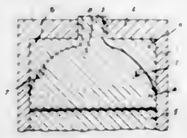


1. A prepared package comprising a pair of trays each having five walls secured together and an open side, a multiplicity of cups charged with explosive, said cups being divided equally between and arranged in said trays with their open ends at the open side of said trays, said trays being arranged with their open sides facing each other, a pad between said trays and engaging the open ends of the cups in both trays, and a wrapper having parts surrounding said trays and said pad and maintaining the same in the relation aforesaid, said wrapper having a closure flap at one face, said closure flap being openable without releasing the relationship of said parts, and the wall of each of said trays, at the face which is exposed when said closure flap is open, being scored to delineate a readily separable section of tray-wall, said section extending to the closed ends of the cups, and said section when separated providing an opening through which the cups are accessible without removing the trays from the wrapper and without removing the pad from engagement with the other parts.

2,660,301
PROCESS FOR THE MANUFACTURE OF CERIUM-IRON-ALLOY FLINTS
Walter Bungardt, Essen, Germany, assignor to Th. Goldschmidt A.-G., Essen, Germany
No Drawing. Application September 21, 1949, Serial No. 117,069
Claims priority, application Netherlands September 28, 1948
1 Claim. (Cl. 207—10)

The method of producing pyrophoric flint material in rod formation, which comprises the steps of preparing an ingot of cerium-iron alloy with an iron content of approximately 15% to 25% by weight, and then subjecting said ingot, which is devoid of any outer cover, to extrusion under application of heat and pressure, whereby the resultant extruded material is discharged through an extrusion die opening of a cross-section corresponding to that of the finished flint rod.

2,660,302
EXTRUSION
Harvey M. Gersman, New York, N. Y., assignor of one-tenth to George Jordan, Montclair, and one-tenth to Adolph G. Wigren, Glen Ridge, N. J.
Application June 5, 1946, Serial No. 674,584
12 Claims. (Cl. 207—17)



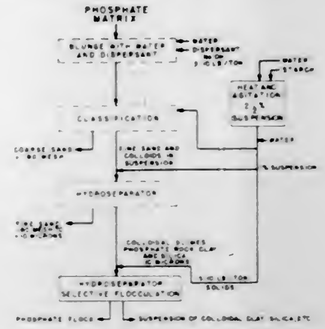
1. In an extrusion die, a tubular member having inner sidewalls which converge at one end thereof toward an orifice along a concave feed surface, comprising, in axial section, a continuous curve constituted of an arithmetic progression of terms representing equal concentric volumes to be displaced during extrusion, said curve corresponding substantially to the formula

$$\text{gamma} = \text{phi} + (n-1)\,\text{beta}$$

wherein n is the number of such equal volumes between the die sidewalls and any point on said curve, gamma is the angular slope of said curve at any point thereof, beta the angular increment by which said slope is changed in passing from one said volume to the next, and phi the angle at which said curve diverges from said sidewalls.

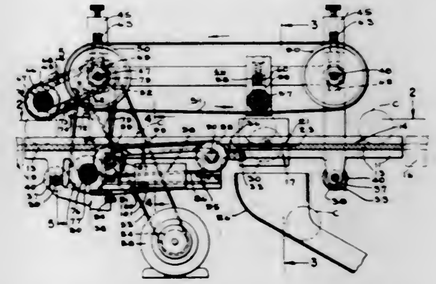
2,660,303
SELECTIVE FLOCCULATION OF COLLOIDAL PHOSPHATE ORE IN THE PRESENCE OF CLAY
Joseph F. Haseman, Florence, Ala., assignor to Tennessee Valley Authority, a corporation of the United States of America
Application September 10, 1951, Serial No. 245,959
1 Claim. (Cl. 209—5)
(Granted under Title 35, U. S. Code (1952), sec. 266)

A process for the recovery of phosphate rock from an aqueous suspension of colloidal particles of phosphate rock, clay, and other matrix solids which comprises dispersing starch in water entirely by heat and agitation; intimately mixing the resulting starch dispersion at a concentration of about 1 per cent starch with said aqueous suspension in such quantity that about 5 to 10 pounds of starch is introduced for each ton of colloidal particles in said aqueous suspension;



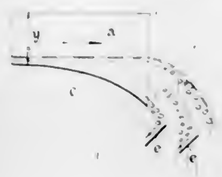
and separating the resulting phosphate flocs from said suspension.

2,660,304
MACHINE FOR DETECTING AND EJECTING IMPROPERLY LABELED CANS
Merrel L. Box, Buena Park, and Robert W. Cason, Fullerton, Calif., assignors to Merrel Manufacturing Company, Fullerton, Calif.
Application November 28, 1949, Serial No. 129,706
9 Claims. (Cl. 209—81)



1. Apparatus for detecting unlabeled and improperly labeled cans from a line of cans moving through the apparatus; comprising a pair of laterally separated tracks along which the cans roll through the apparatus, said tracks having a removable section normally spring biased into can supporting position, electrically operated means mounted upon energization thereof to remove said removable track section from can supporting position, a rigid detector blade having a straight upper edge mounted lengthwise of and intermediately of said tracks, means normally insulating the blade from said tracks, means pivotally supporting the forward end of the blade with its upper edge below the path of a can rolling along said tracks, means resiliently biasing the rearward end of said blade into the path of cans rolling along said tracks, means for adjusting the blade laterally of said tracks to vary the sensitivity of detection by said blade, and normally open circuit means interconnecting said blade, said electrically operated track removing means and said track, said circuit being adapted to be closed to energize said track removing means by conductive portions of a can simultaneously contacting said blade and said track.

2,660,305
CLASSIFIER FOR SOLID BODIES CARRIED IN A FLUID STREAM
Jean Antoine Labouygues, Messeix, France
Application October 26, 1949, Serial No. 123,674
In France November 3, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires November 3, 1963
3 Claims. (Cl. 209—155)



1. In apparatus for classifying solid materials according to their ranging densities, wherein the materials are conveyed by a fluid stream in a channel-shaped runway, the side walls of the channel converging in the direction of the stream to end in a spout having the shape of a vertical, lamellar, substantially rectangular slot, whereby the fluid and materials issuing from the slot are arranged as a free, vertical, lamellate jet, the provision of a bottom wall to the runway having an increasing downward inclination in the direction of the stream to produce a range of forward flow speeds for the lamellar jet varying from a maximum speed for the upper lamellar flow to a minimum speed for the lowest lamellar flow.

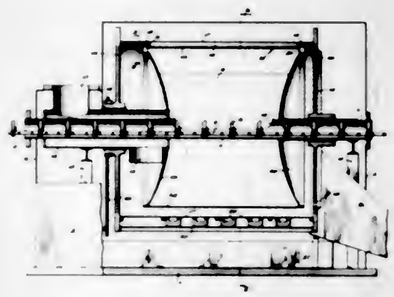
2,660,306
DEPRESSION OF SULFIDE MINERALS WITH ZINC CYANIDE AMMONIATE
Charles Francis Allen, Stamford, Conn., Worth Martin Fitzsimmons, Sacramento, Calif., and Robert Ben Booth, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 5, 1952, Serial No. 308,156
8 Claims. (Cl. 209—167)

1. A process of selectively depressing sulfides of zinc and iron in the presence of sulfides of copper which comprises effecting froth flotation in the presence of an effective amount of a collector for copper sulfides and an ammonia zinc cyanide complex as a depressant, the ammonia being linked non-ironically, the amount of depressant being not less than ¼ lb./ton of flotation feed and insufficient to substantially depress the flotation of copper sulfides.

2,660,307
DEPRESSION OF SULFIDE ZINC MINERALS FROM CONCENTRATES AND ORES
Charles Francis Allen, Stamford, Conn., Worth Martin Fitzsimmons, Sacramento, Calif., and Robert Ben Booth, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 5, 1952, Serial No. 308,157
8 Claims. (Cl. 209—167)

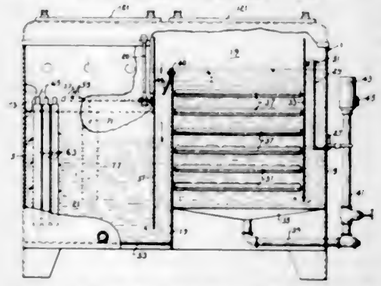
1. A process of selectively depressing zinc and iron sulfides in the froth flotation of ores and concentrates containing lead and zinc sulfides, which comprises effecting froth flotation in the presence of an effective amount of collector for lead sulfide and an effective amount of a depressant containing cyanide radical, zinc and non-ionically linked ammonia.

2,660,308
MAGNETIC SEPARATOR
Frank G. Fisher, Lebanon, Ind., assignor to Honan-Crane Corporation, Lebanon, Ind., a corporation of Indiana
Application October 21, 1948, Serial No. 55,794
3 Claims. (Cl. 210—1.5)



1. In a magnetic separator, a rotary drum of non-magnetic material, a plurality of permanent magnets carried by the outside surface of said drum to attract metallic particles against the inside surface of said drum, means for rotating said drum, stationary magnetic drum means disposed within the interior of said rotary drum defining a shunt for said magnets, and cooperating with said rotating drum to define a thin fluid path for particle-laden fluid, a gap arranged in the surface of said stationary drum for destroying the shunt action, thereby lessening the attractive force of said magnets in a predetermined zone during rotation of said drum, a receptacle placed in said gap, and scraper means to remove attracted particles from said drum in said zone and direct them into said receptacle.

2,660,309
LUBRICANT CONDITIONING APPARATUS
Edwin M. May, Scarsdale, N. Y., assignor to Bowser, Inc., Fort Wayne, Ind.
Application August 6, 1949, Serial No. 108,924
2 Claims. (Cl. 210—44)



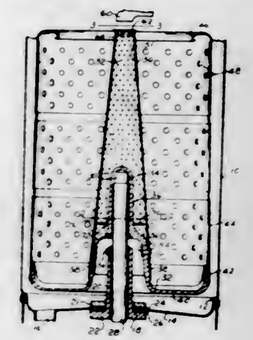
1. In an oil conditioner, the combination of a water precipitation compartment comprising a bottom and a side wall, an oil inlet, an oil outlet from said compartment, said outlet comprising an oil overflow of said side wall, a water outlet pipe connected at the bottom of said compartment, said bottom being shaped so that water will gravitate to said outlet pipe, a water overflow column connected to said water outlet pipe and extending to a level below that of the oil outlet, said water column and compartment being adapted to be charged with a predetermined amount of water, said oil outlet and the top of said overflow column being disposed at such levels that when oil fills said compartment to the mouth of said oil overflow outlet, the water-oil interface is located in the lowermost portion of said compartment and adjacent to said outlet pipe, a primary oil filtration compartment connected to said water precipitation compartment, a secondary oil filtration compartment connected to said primary oil filtration compartment, an expendable micronic filtration cartridge means mounted in said secondary compartment, means for pumping oil from said primary oil filtration compartment to said secondary filtration compartment and through said cartridge and to a point of use, and means for bypassing said pump and interrupting communication between said cartridge means and said pumping means so that the cartridge means may be replaced without stopping the flow of oil to the point of use.

2,660,310
SEDIMENT REMOVAL APPARATUS
Henry W. Hapman, Kalamazoo, Mich., assignor of forty per cent to Hannah Jane Hapman, Kalamazoo, Mich.
Original application October 12, 1944, Serial No. 558,424. Divided and this application November 15, 1950, Serial No. 195,848
2 Claims. (Cl. 210—55)



1. A sediment removal apparatus comprising a horizontally-elongated tank having side and end walls and converging sloping bottom walls connected thereto and forming an elongated substantially horizontal trough at the junction of said bottom walls, a conveyor conduit structure disposed in said tank in an approximately vertical plane passing through and including the longitudinal axis of said trough, said conduit structure including a return pipe spaced above said trough and a connecting pipe extending from said return pipe to said trough, an endless flight conveyor trained through said conduit structure and extending upwardly out of said tank, said conveyor having a substantially horizontal lower course passing through and along said trough, a conveyor driving wheel mounted above said tank and drivingly engaging said conveyor, and a motor drivingly connected to said driving wheel, said conduit structure including an elongated substantially horizontal guide member disposed above said trough in spaced parallel relationship therewith and guidingly engaging the upper side of said lower course of said flight conveyor.

2,660,311
CENTRIFUGAL RINSING DEVICE
William G. Landwier, Fayetteville, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application February 19, 1949, Serial No. 77,308
3 Claims. (Cl. 210—67)



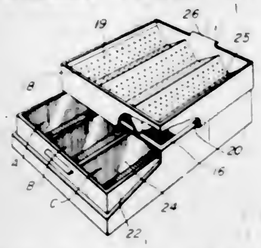
1. A centrifugal laundry rinsing device comprising, a vertical axis laundry-containing extractor, a central hollow conical tube mounted for rotation with said extractor and having a multiplicity of perforations therein along substantially its entire length, stationary means for delivering rinsing liquid into the space within said tube from the upper end thereof, means at the upper end of the tube for initially imparting a degree of rotation to the liquid, and transverse baffle means rotatable therewith and located within said tube in spaced relation to the inner wall of said tube at the lower enlarged diameter region thereof below said rotation-imparting means, said baffle being constructed and arranged for radially distributing falling liquid upon the inner wall of said tube in the region of said baffle.

2,660,312
FILTERING APPARATUS
Howard J. Snyder and Edward A. Gendron, Jr., Tucson, Ariz.
Application November 25, 1949, Serial No. 129,282
2 Claims. (Cl. 210—94)



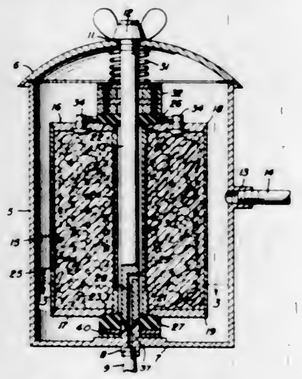
1. In filtering apparatus, a reservoir and a conduit having its inlet end disposed within the reservoir and extending toward and terminating in spaced relation to one of the walls of the reservoir, a concavo-convex foraminous member having a central opening that receives the conduit therethrough adjacent the inlet end of the latter and an external stop ring on the conduit engaging the member, the outer periphery of the member engaging said one wall of the reservoir, and a U-shaped spring clip received within the member and disposed between inlet end of the conduit and said one wall of the reservoir removably securing the conduit and the member.

2,660,313
STRAINER CABINET
Ernest T. James, Austin, Tex.
Application July 21, 1949, Serial No. 105,947
6 Claims. (Cl. 210—105)



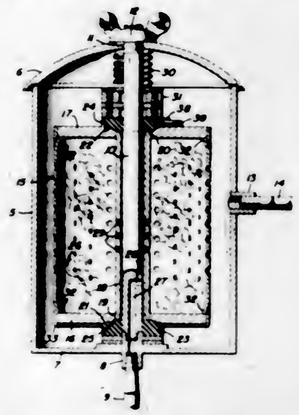
1. A strainer cabinet for food fats including, a base member, an open bottom strainer box mounted on the base member and of less length whereby the base member extends forwardly a substantial distance in front of the box, a plurality of elongate strainer members in the box disposed side by side, a drawer slidable in the base underlying the box and being of considerably less length than the base and adapted to be slid forwardly on the base in front of the box to expose its contents, and a plurality of individual troughs in the drawer each underlying and in close proximity to one of the strainer members.

2,660,314
OIL FILTER
Thomas S. Lasky, Kingston, Pa.
Application January 13, 1950, Serial No. 138,469
1 Claim. (Cl. 210—131)



In an oil filter, an open topped imperforate casing, an upstanding rod centrally disposed in the casing and rigidly attached at its lower end to the bottom of the casing, said rod being formed of separable upper and lower sections that are in threaded engagement, a cartridge including a cylindrical perforate shell, closure disks at the upper and lower ends of the shell, said disks being provided with central openings and having recesses in their outer surfaces forming tapered washer seats about said openings, a central perforated tube disposed in the openings in the disks, said tube surrounding the rod in spaced concentric relation thereto, upper and lower resilient sealing washers surrounding the upper and lower sections of the rod and engaging the seats, said rod having a passageway therein that opens laterally through the rod intermediate the washers, said passageway extending through the juncture of the upper and lower sections of the rod with the lower washer surrounding such juncture, a removable cover closing the top of the casing, and means carried by the upper section of the rod for holding the cover in closing position.

2,660,315
OIL FILTER
Thomas S. Lasky, Kingston, Pa.
Application January 16, 1950, Serial No. 138,781
3 Claims. (Cl. 210—131)

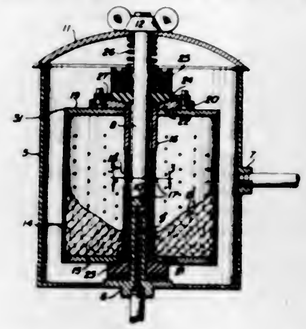


1. For use in an oil filter of the type embodying an imperforate casing having a control rod provided at its lower end with an oil passage, a filter cartridge comprising a cylindrical shell adapted to contain a quantity of filtering material, said shell having lateral oil passages intermediate the ends thereof, said shell including a series of spaced inwardly embossed ribs adjacent each end thereof, said ribs providing supporting shoulders adjacent each end of said shell, a bottom disk seated on the shoulder adjacent the bottom of said shell, the lower end of said shell being swaged inwardly to permanently secure said bottom disk in place, a closure disk seated on the shoulder adjacent the top of said shell, a bayonet type joint between said closure disk and said shell, said disks being relatively thick with respect to said shell, said disks being provided with central apertures, a tapered washer seat in each of said disks about said central apertures, a tube fixed at its lower end in the central aperture of said bottom disk, the upper end of said tube being slidably and rotatably received in said central aperture of said closure disk.

2,660,316
FILTER UNIT
Thomas S. Lasky, Kingston, Pa.
Application February 20, 1950, Serial No. 145,234
1 Claim. (Cl. 210—131)

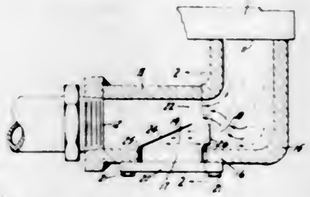
For use in an oil filter having an imperforate outer container with central bottom and side oil connections, a post rigidly connected to the bottom and extending axially through said outer container, an oil connection through said post, a filter unit comprising an inner container including a cylindrical wall having perforations, a relatively thick bottom wall as compared to the cylindrical wall, said bottom wall being tightly fitted and rigidly secured to the lower end of said cylindrical wall, said bottom wall having a central aperture therein, an axially positioned

tube rigidly secured in said aperture, said tube extending above the top of the cylindrical wall, a flat removable cover slidably fitting said cylindrical wall and said tube, a lip on said cover overlying the end of the cylindrical wall, the end of



said tube being threaded, a nut disk threadedly engaging the end of said tube, a tapered gasket seat on the outer face of said nut disk, and a tapered gasket seat on the outer surface of said bottom wall.

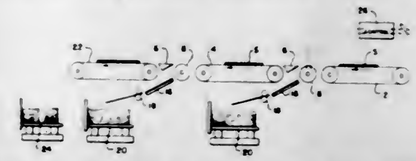
2,660,317
FLUID FILTER
George W. Mork, South Milwaukee, and John E. Marson and Thomas G. Paulsen, Milwaukee, Wis., assignors to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Application August 2, 1948, Serial No. 42,114
3 Claims. (Cl. 210—165)



1. In a filter assembly for a fluid circulating system, the combination of: a fluid conduit angled to form an elbow; an unobstructed main passageway within said conduit adjacent the inner wall of the conduit at the exit of the elbow; and a filter located wholly within the conduit and extending inwardly from said outer wall of the conduit across only the part of the conduit that is adjacent the outer wall of the conduit adjacent the exit of the elbow; whereby foreign particles centrifuged in passing through said elbow will pass into and be retained by said filter without appreciably impeding normal flow of fluid through said main passageway.

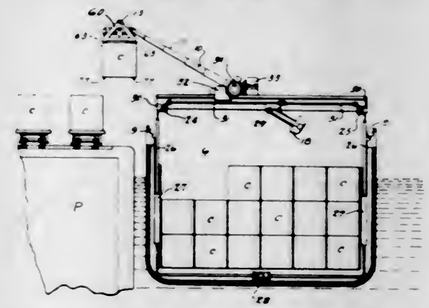
2,660,318
APPARATUS FOR CONVEYING MAGNETIZABLE SHEETS
Coleman H. Watson, Birmingham, Ala., assignor to United States Steel Corporation, a corporation of New Jersey
Application March 10, 1950, Serial No. 148,831
3 Claims. (Cl. 214—11)

3. Apparatus for conveying magnetizable sheets comprising a first conveying mechanism including a magnetizable roll at the exit end thereof, a second conveying mechanism spaced from the exit end of the first conveying mechanism, a stationary deflector between the conveying mechanisms over which the sheets pass in traveling from one conveying mechanism to the other, a guide adjacent the exit end of the first conveying mechanism extending downwardly



therefrom, means for magnetizing and demagnetizing said roll, said means being operative to magnetize said roll to deflect a sheet from the path of travel between the conveying mechanisms downwardly between said roll and the underside of said deflector over said guide, said means being operative to demagnetize said roll after the diverted sheet passes therefrom.

2,660,319
APPARATUS FOR LOADING AND UNLOADING CARGO VESSELS
Norman E. Dorland, Kirkland, Wash.
Application October 8, 1946, Serial No. 702,014
1 Claim. (Cl. 214—15)

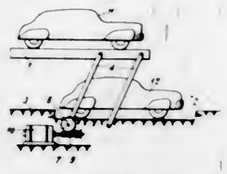


In combination with the hull of a ship, constituting a cargo hold, a track mounted on each side of the hold, means to raise and lower said tracks at will, a frame mounted on said track for movement fore and aft, a boom structure mounted on said frame for movement athwartships, said boom structure comprising two pivotally mounted side members, a portion of each side member toward one end being telescopic, and counterweights carried by the telescopic ends of said side members.

2,660,320
PARKING DEVICE FOR VEHICLES
August Wullschleger, Olten, Switzerland
Application October 16, 1948, Serial No. 54,887
2 Claims. (Cl. 214—16.1)

1. In a parking device for vehicles, a fixed support, a platform, at least three stays pivoted to said platform with one end, pivot means connecting the other end of said stays to said support so as to maintain said platform in a substantially horizontal position in all angular positions of said stays, and means for rotating at least one of said stays on its pivotal connection with said support, through an angle of approximately 180° thereby permitting the platform to be lowered to the

ground level in two separate locations, said stays being located far enough apart in a direction parallel with the axes of said pivots to accommodate a vehicle between them, and the length and



arrangement of said stays being such as to accommodate a vehicle beneath said platform when in its raised position and to enable said platform to be lowered at one end of said vehicle without touching the same.

2,660,321

APPARATUS FOR REMOVING SLABS FROM HEATING FURNACES

Harvey Demmon and Mansel E. Houk, Pittsburgh, Pa., assignors to United States Steel Corporation, a corporation of New Jersey

Application December 26, 1951, Serial No. 263,254
3 Claims. (Cl. 214—18)



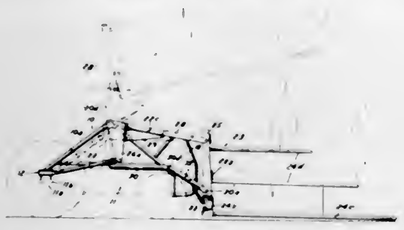
2. An apparatus for removing slabs from a heating furnace comprising a plurality of frame sections adapted to be pushed into a furnace in end to end abutting relation against the rearmost slab, each of said frame sections being formed of longitudinal members and cross braces welded together and angle iron end pieces welded to said longitudinal members and facing upwardly and inwardly, connectors having downwardly facing notches receiving the upright flanges of the angle iron end pieces of each pair of abutting frame sections and thus removably coupling these sections together, and a coupling adapted to connect the rearmost frame section with a furnace pusher for removing the sections one by one from the exit end of the furnace.

2,660,322

IMPLEMENT ATTACHMENT FOR LOADER FRAMES

Clarence B. Richey, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware

Application March 9, 1951, Serial No. 214,714
7 Claims. (Cl. 214—131)



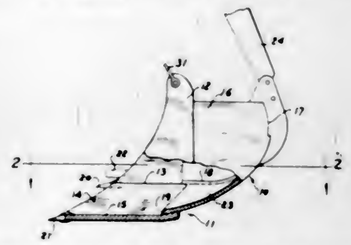
1. For use with a tractor having a loader frame mounted thereon, an implement mounting comprising in combination a pair of upper link members having their ends respectively pivoted to opposed top portions of the frame and to an implement, a pair of lower link members having their ends respectively pivoted to the frame below said upper links and to the implement in spaced relationship relative to said upper links, said upper and lower links being constructed and arranged in substantially parallel relationship when the implement is in its lowered position, lever means secured to a selected pair of said links, hydraulically operated means connected to said lever means and the loader frame for raising said links and simultaneously moving the links relative to one another toward an aligned position, and resilient stop means interposed between one pair of said links and the implement to prevent movement of the links to an "over center" position when the implement is in its raised position.

2,660,323

EXCAVATING BUCKET

John J. Carlesimo, Detroit, Mich.

Application June 2, 1951, Serial No. 229,631
3 Claims. (Cl. 214—145)



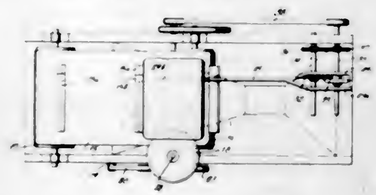
3. A bucket comprising a main, load-receiving body open at top and front, said body having a back, two sides, and an oblong plate forming a bottom member along the inner surface of each side, each plate being provided with a plurality of digging teeth at the front of said body, and a scoop depending from the inner edges of said bottom members, said scoop opening at the top into said main body, and comprising two vertical sides and a bottom plate provided with digging teeth at the front, and extending at the back rearwardly to the back of the main body.

2,660,324

APPARATUS FOR OPENING AND EMPTYING BAGS

Reginald Trautschold, Nutley, N. J., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York

Application October 26, 1949, Serial No. 123,577
13 Claims. (Cl. 214—305)



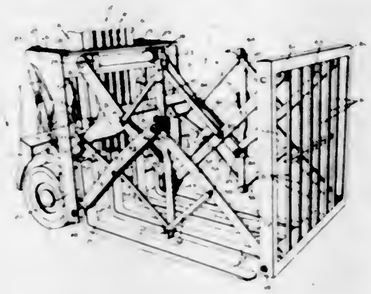
1. In apparatus for slitting and emptying a container, a slitter knife; a horizontal impaling spike, said knife and spike being fixed in position; said knife and spike being positioned relative to such container to cut open one extremity thereof and to impale same near the opposite extremity in response to movement of the container relative to said knife and spike into slitting and impaling relationship respectively therewith.

2,660,325

INDUSTRIAL TRUCK

E. Ryan Backofen, Elmer J. Dunham, and Sidney R. Skellenger, Battle Creek, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Application July 21, 1950, Serial No. 175,264
12 Claims. (Cl. 214—514)



1. A pusher mechanism for an industrial truck having a load supporting carriage including load supporting means extending forwardly of the truck comprising, a supporting frame adapted to be mounted on said carriage to extend transversely of and at the inner end of said load supporting means, a vertical load engaging rack extending transversely of said load supporting means, first arm means pivotally mounted at one end adjacent the upper end of said supporting frame, second arm means pivotally mounted at one end adjacent the upper end of said rack, first shoe means, said first and second arm means extending downwardly toward each other and being pivotally connected adjacent their other ends to said first shoe means, third arm means pivotally mounted at one end adjacent the lower end of said supporting frame, fourth arm means pivotally mounted at one end adjacent the lower end of said rack, second shoe means, said third and fourth arm means extending upwardly toward each other and being pivotally connected adjacent their other ends to said second shoe means, said first and second shoe means being slidably mounted on substantially vertically extending guide frame means, and means for pivoting said first arm means whereby said rack is extended and retracted over said load supporting means.

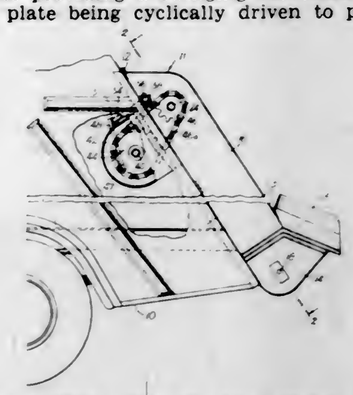
2,660,326

TAIL GATE LOADER AND PACKER

John P. Calamore, Flushing, N. Y., assignor to City Tank Corporation, Corona, N. Y., a corporation of New York

Application November 10, 1949, Serial No. 126,496
6 Claims. (Cl. 214—519)

1. In a refuse truck or the like, a tailgate, a loader and packer comprising a fill opening in the tailgate, a hopper, an arcuate bottom wall, side plates and a packer plate driven between said side plates by an eccentric adjacent one end of the packer plate, guiding the end along the wall and link support for the opposite end of the plate providing a swinging movement, said packer plate being cyclically driven to provide



forward, upward pushing and return lifting clearing movement.

2,660,327

CRATE LIFTING ATTACHMENT

Albert V. Blatz, Thiensville, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application December 5, 1949, Serial No. 131,163
11 Claims. (Cl. 214—651)



1. In an attachment for crate lifting adapted to be employed with a lift truck having an elevator, a support carried by said elevator, a plurality of fingers pivotally mounted on said support and projecting forwardly therefrom for insertion into interstices in a crate to lift the crate upon elevation of the attachment by said elevator, and individual means normally urging said fingers to a forward position but permitting retraction of fingers which are prevented by contact with portions of the crate from being so inserted.

2,660,328

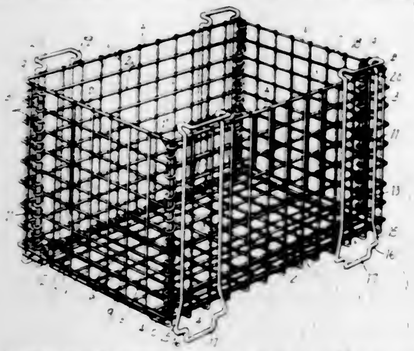
COLLAPSIBLE STACKING RECEPTACLE

Charles C. Averill, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich., a corporation of Michigan

Application September 29, 1952, Serial No. 312,109
6 Claims. (Cl. 220—6)

1. In a collapsible stacking receptacle the combination of opposed pairs of walls comprising spaced parallel horizontal and vertical slats fixedly connected at their crossing points, adjacent ends of the walls being hingedly connected, a bottom comprising crossed slats fixedly connected at their crossing points hingedly connected to one wall of an opposed pair to be collapsed upwardly against the inner side thereof when the receptacle is collapsed, the other wall of the pair having a support for the bottom when the receptacle is in erected position, and combined

reinforcing uprights and stacking members formed of rod stock and comprising spaced side members and top and bottom crosspieces integral therewith, the side members being fixedly secured to the horizontal slats of the opposed walls with the upper ends of the uprights projecting above the walls and their lower ends projecting below the walls, said side members having laterally downwardly diverging portions adjacent



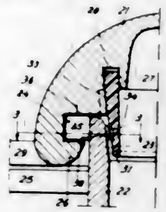
their lower ends merging into inward offsets constituting stacking lug shoulders spaced upwardly relative to the lower ends of the uprights which constitute stacking lugs, the upper ends of the side members having inwardly offset loops positioned above the tops of the walls with the upper crosspieces outwardly spaced relative to the walls to receive the stacking lugs of a superimposed receptacle with the top crosspieces on the outer sides thereof.

2,660,329
HINGED CLOSURE
Edward Dolar, Berwyn, Ill.
Application March 20, 1951, Serial No. 216,547
5 Claims. (Cl. 220—31)



5. In a container having one end open and being provided with a groove extending around the outer face thereof adjacent said open end thereof and a cover positioned on said open end of said container, a band positioned in said groove and having its ends spaced from each other, a first extension having one end secured to one end of said band, a second extension arranged in spaced parallel relation with respect to said first extension and having one end secured to the other end of said band, said first extension and said second extension projecting away from said container, a pair of legs arranged in converging spaced relation with respect to each other and one of said legs having its converging end secured to the other end of said first extension and the other of said legs having its converging end secured to the other end of said second extension, a third extension having one end secured to the periphery of said cover, a lever arranged at right angles with respect to said cover and said third extension and having one end secured to the other end of said third extension, said lever being provided with a slot extending inwardly from the other end thereof, said other end of said lever being pivotally connected to the other ends of said pair of legs, a first flange positioned on one side of said lever and secured thereto, a second flange arranged in converging spaced relation with respect to said first flange and positioned on the other side of said lever and secured thereto, said first and second flanges being bent toward each other, said flanges and said legs extending in the same longitudinal direction when said cover is in closed position, the converging ends of said first flange and said second flange being positioned adjacent the converging ends of said pair of legs and said first flange embracing said one of said pair of legs and said second flange embracing said other of said pair of legs when said cover is in closed position over said open end of said container.

2,660,330
PRESSURE COOKER
Max Keller, Zurich, Switzerland
Application January 9, 1952, Serial No. 265,607
12 Claims. (Cl. 220—40)



1. In a pressure cooker, comprising a pot having a rim, an annular sealing surface on the inner side wall of said pot adjacent said rim, a detachable lid fitting onto said rim, first locking means integral with said pot, second locking means integral with said lid and adapted to engage said first locking means so as to tightly secure said lid to said pot in a predetermined position and to release said lid when said lid is angularly displaced from said predetermined position, and an annular sealing member attached to said lid, projecting downwardly inside of and adjacent to said rim of said pot and having a sealing surface adapted to laterally contact said annular sealing surface of said pot adjacent said rim when said lid is secured to said pot by said locking means, the provision of at least one protuberance at one of said sealing surfaces and of at least one recess at the other of said sealing surfaces, said protuberance and said recess being positioned at their respective sealing surfaces at such places and having such forms and sizes that at said predetermined position of said lid said protuberance engages in said recess to permit sealing engagement of said sealing surfaces, whereas said protuberance is moved from said recess and separates said sealing surfaces when said lid is angularly displaced on said pot with respect to said predetermined position.

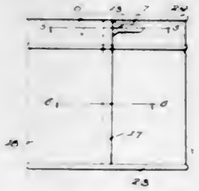
2,660,331
TEAR STRIP GUIDE
William H. Inman, Keokuk, Iowa
Application October 27, 1949, Serial No. 123,837
1 Claim. (Cl. 220—52)

A strip guide adapted for detachable connection to a can opening key of the type which includes a shank having an elongated longitudinally extending strip receiving opening extending therethrough intermediate the ends thereof, said strip guide comprising a body having a pair of spaced parallel arms, platelike hook members carried by the arms and extending outwardly therefrom intermediate the ends thereof, said hook members defining with the arms aligned



key shank receiving slots having end walls which lie concentric about an axis which lies perpendicular to the arms, the end walls of the slots forming bearings for engaging a key shank adjacent opposite ends of the opening therein, the outer edges of the platelike hooks being convex and spaced from the key shank bearings to form guards which prevent contact of the fingers of the user with the tear strip which is coiled on the key.

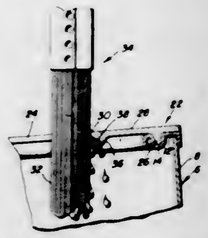
2,660,332
CONTAINER WITH RIP STRIP TONGUE FOLDED INTO LOCK SEAM
John Henchert, River Forest, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application September 17, 1951, Serial No. 247,006
5 Claims. (Cl. 220—54)



1. In a container, a body having a side seam formed at least in part of interlocked hooks and score lines extending about the body thereof at the position of said interlocked hooks and defining a rip strip, and a winding key receiving tongue extending from the defined rip strip and folded upon itself in and extending freely from the side seam, said tongue being extended from the outermost one of the interlocked hooks and being weakened at its defined edges and where it extends across to the fold line of said outermost hook, and the portion of the outwardly directed free edge portion of the inner hook opposed to said folded portion of the tongue being defined by weakening lines so that it will be readily pulled away out of said inner hook as the folded tongue portion is pulled out of the seam as an incident to the winding of the rip strip on a key during the opening of the container.

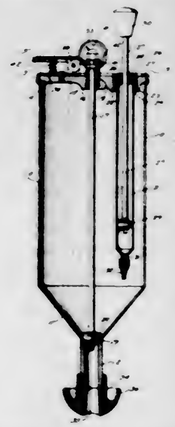
2,660,333
PAINT CAN BRUSH SCRAPER
Claude Paxton, El Paso, Tex.
Application October 3, 1949, Serial No. 119,290
1 Claim. (Cl. 220—90)

An attachment for a paint can lid flange comprising an endless rigid readily attachable and detachable non-deformable ring with a perfectly flat top surface and a solid endless keying rib on its underside, said rib adapted to fit into the usual channel in said lid flange and being situated mid-way between the inner and outer peripheral edges of said ring, and an integral segmental flange carried by a portion of the inner peripheral edge of said ring, the free edge portion of said flange being blunt and smooth and



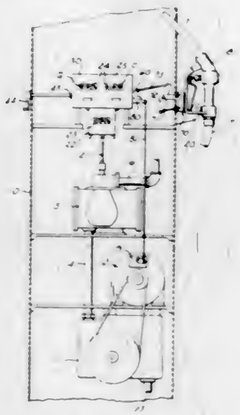
constituting a bristle scraping edge, said flange provided on the underside with a depending projection parallel with and closely spaced from said free edge, said projection being V-shaped in cross section and forming a gravity-type drip return member.

2,660,334
AIR PUMP AND ACCUMULATOR
James P. Burke, Poland, Ohio, assignor to Murray M. Fibus and Jerome Marcus, Youngstown, Ohio
Application July 5, 1951, Serial No. 235,307
3 Claims. (Cl. 222—3)



1. In an air pump and accumulator comprising a cylindrical body member having an apertured closure at its upper end and a conical extension at its lower end with a tubular discharge end extending therefrom, and a valve rod positioned centrally of said cylindrical body member and a valve member on the lower end of said valve rod for registry with the conical extension and self-centering in the tubular discharge end, and pump means for introducing air pressure into said cylindrical body member; release means for said valve comprising a handle pivoted to said closure intermediate its ends, one end of said handle being engaged upon said valve rod and movable upwardly with the rod when the other end of the handle is moved toward said tubular discharge end of the device, a spring engaged by the said closure in the other end of said handle, said spring being of sufficient stiffness to hold the air pump and accumulator strongly against a clogged drain.

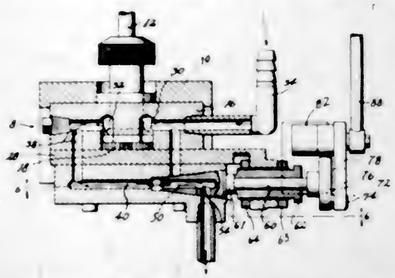
2,660,335
CONTROL MEANS FOR LIQUID DISPENSING APPARATUS
Harvey N. Bliss, Windsor, and Otto Wild, Jr., West Hartford, Conn., assignors to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Application February 11, 1950, Serial No. 143,756
18 Claims. (Cl. 222—34)



1. In a liquid dispensing apparatus of the type having a dispensing hose and nozzle and support therefor, means for inducing a flow of liquid including a pump motor, and a register having indicating means arranged to register the quantity of liquid dispensed and including means for resetting the indicating means to zero, the combination therewith of power control means movable from an original position to a position for energizing the pump motor, means energized by the operation of the resetting means and releasable by return of the indicating means to zero including a lever arm engageable with the power control means for moving the power control means to the position for energizing the pump motor, means responsive to position of the hose nozzle support for disconnecting said lever arm from the power control means when the hose nozzle is on its support, means responsive to position of the power control means for rendering the reset means inoperable when the power control means is in the position energizing the pump motor, and means for returning the power control means to original position when the hose nozzle is placed on its support.

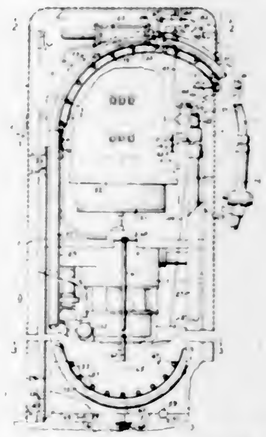
2,660,336
FILLING DEVICE
Henry F. Coffey and Philip H. Lanham, Indianapolis, Ind., assignors to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
Application April 10, 1948, Serial No. 20,275
6 Claims. (Cl. 222—70)

1. In apparatus for dispensing liquid material, a housing having circuit-defining passages therein forming a substantially closed circuit, an intake passage communicating thereinto, means for positively moving liquid material continuously through said circuit in a constant unvarying stream, a discharge nozzle associated with said circuit, valve means within said housing operable to divert the stream of material to said nozzle, whereby material is positively discharged through said nozzle, said valve means being also operable to shut off the nozzle and restore the flow of material through said circuit, and electrically actuated means operable to alternately operate said valve means at high speed in timed relation



to repetitively effect the discharge of predetermined uniform amounts of material at fixed intervals.

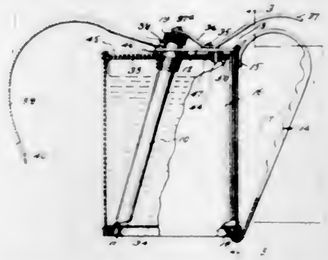
2,660,337
HOSE EXTENDING AND LATCHING MECHANISM
Walter M. Harks, Fort Wayne, Ind., assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana
Application October 24, 1947, Serial No. 781,911
8 Claims. (Cl. 222—74)



1 In a liquid dispensing apparatus having a frame, a housing around said frame, a flow line, a hose, having a nozzle, connected to the line within said housing and extending out through an opening therein, a nozzle support, means operated by said support for starting and stopping the flow of liquid in said line, the hose within said housing being disposed in a loop having upper and lower bights, a movable weight disposed in said lower bight and means adapted for movement to and from effective position in response to operation of said support for holding said weight against downward movement.

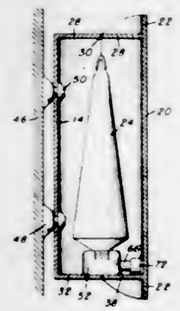
2,660,338
CAN TAPPER AND LIQUID DISPENSER UNIT
Charles W. Dunn, Lovington, N. Mex., assignor of forty per cent to John W. Williamson, Lovington, N. Mex.
Application April 14, 1952, Serial No. 282,095
1 Claim. (Cl. 222—82)

A device of the character described comprising, in combination with a can, an elongated hollow cylindrical pump housing, a can-punching blade formed on the lower end of said housing, a plate angularly disposed upon the upper portion of said housing, a can vent punch formed in said plate, a can-engaging support handle hinged to the rear of said plate, a fitting in the forward upper portion of said housing, a dispensing tube attached to said fitting, a nozzle at the free end of said tube, a pump in said housing, and a pump



lever for said pump pivotally mounted on said plate and having its free end adjacent said support handle, a circular pattern adapted to be affixed to the top of said can, a felt washer centrally affixed to the upper face of said pattern and adapted to receive said housing therethrough, and a felt washer eccentrically affixed to said pattern and adapted to receive said vent punch therethrough.

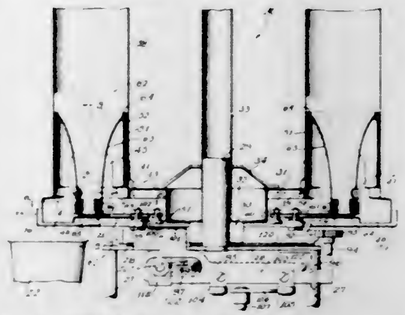
2,660,339
DISPENSER FOR COLLAPSIBLE TUBES
Nicholas M. Koob, Chicago, Ill.
Application January 22, 1951, Serial No. 207,115
1 Claim. (Cl. 222—105)



A dispenser for a collapsible tube comprising a casing including a back member having an open front and a horizontal base plate, said casing further including a front closure member for the back member hinged on said back member for opening movement, a boss rising from said base plate and having a top threaded opening for attachment of the neck portion of a collapsible tube therein for securing said tube in vertical inverted position in said back member and above said base plate, an L-shaped dispensing tube fixed in said boss with a vertical leg aligned with said opening and a horizontal leg extending forwardly above said base plate out of the open front of said back member, and means carried by said closure member for closing the horizontal leg when said closure member is closed, said base plate and boss extending out of said open front to facilitate attachment of said neck portion in said threaded opening.

676 O. G.—73

2,660,340
MAGAZINE FOR DISPENSING MACHINES
Ernest H. Thompson, Glenview, Ill.
Application March 21, 1950, Serial No. 150,897
20 Claims. (Cl. 222—136)



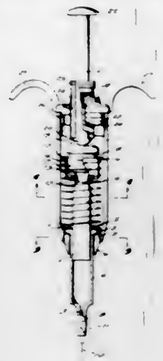
1. In a magazine for dispensing machines, a magazine tube adapted to contain a powdered product or the like, a charge forming unit adjacent the lower end of said magazine tube, said charge forming unit comprising a movable element having a receptacle to receive a charge of product from said magazine tube, a valve for normally closing the bottom of said receptacle, a flexible tube connecting said magazine tube and said receptacle, said charge forming unit being movable from one position wherein said receptacle is open through said flexible tube to said magazine tube, to another position where it is offset relative thereto, an abutment engaging said flexible tube for closing the sides thereof against each other as said charge forming unit is moved to said offset position, and means for opening said valve after said flexible tube sides have contacted each other.

2,660,341
APPARATUS FOR THE PNEUMATIC EVACUATION OF MATERIALS
Ragnar A. Norbom, New York, N. Y., assignor to Finnie & Norbom, New York, N. Y., a partnership
Application May 3, 1950, Serial No. 159,776
6 Claims. (Cl. 222—199)



1. In a device of the class described, a receptacle adapted for the reception of a material to be evacuated therefrom and having downwardly converging walls spaced apart at their lower edges and there forming a discharge opening, an oscillatory element including a pair of upwardly and inwardly inclined plates connected together at their upper edges and normally closing the space between the lower edges of said walls, means for mounting said oscillatory element for oscillatory movement within said opening, whereby said plates are alternately moved out of and into closed relation to the lower edges of said walls so that said material may be evacuated from said receptacle by way of said opening, guide ears arranged in spaced relation to each other on said plates and presenting vertically disposed guide surfaces cooperating with the lower edges of said walls to retain said oscillatory element against lateral displacement while such element is undergoing oscillatory movement.

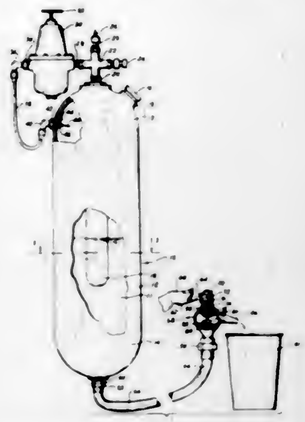
2,660,342
BURETTE WITH VARIABLE CAPACITY
Herman Ruf, Flushing, N. Y.
Application April 1, 1949, Serial No. 84,775
4 Claims. (Cl. 222—340)



1. In a burette and in combination, an outer shell forming an enclosure and support for the operating elements, a cylinder supported therein and extending from one end thereof, a floating piston plunger slidably fitting in the cylinder and having one end extending therefrom into the shell, a piston plunger head on the end of the plunger which extends into the shell, the said head and plunger being spaced from the inner surface of the shell, a fitting comprising a cup-shaped member having a bottom aperture accommodating the piston plunger and a plug threadably mounted in the cup-shaped member for holding the piston plunger head therein, the plug having a flat upper surface, an operating plunger slidably carried in the shell, extending through the end thereof opposite the end which carries the cylinder and having a rounded end engaging the flat surface for forcing the piston plunger into the cylinder and a spring within the shell and outside the cylinder, one end of the spring engaging the cup-shaped member and the other end of the spring engaging the cylinder end of the outer shell for yieldably urging the piston plunger against the operating plunger.

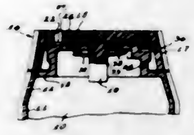
2,660,343
CARBONATED BEVERAGE DISPENSER
Edward B. Charpiat, Denver, Colo.
Application March 26, 1949, Serial No. 83,743
2 Claims. (Cl. 222—397)

1. A carbonated beverage dispenser comprising an elongated cylindrical container having spherical top and bottom ends, an elongated cylindrical bottle formed from inflexible material adapted to hold gas at high pressure and mounted concentrically within said container, said bottle extending from the top spherical end, a connector having four outlets mounted on said top spherical end with one of said outlets communicating with said bottle, a pressure relief valve mounted in a second of said outlets, a gas filled valve mounted in a third of said outlets, a pressure reducing valve having its inlet connected to a fourth of said outlets and diametrically opposite the pressure relief valve in said second outlet, conduit means extending from the outlet of said pressure reducing valve into said container in the vicinity of the top spherical end thereof, the outlet of said pressure reducing valve being disposed diametrically opposite said fourth outlet, a threaded fitting located in the bottom spherical end of said container, a flexible hose



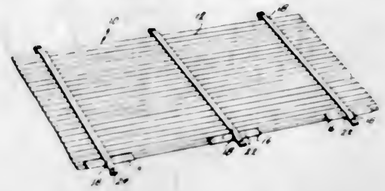
having a coupling on its inner end threadedly connected to said fitting and extending downwardly therefrom and a spring closed faucet on the end of said hose.

2,660,344
DISPENSING CLOSURE AND CONTAINER
John W. Starner, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application January 25, 1949, Serial No. 72,579
5 Claims. (Cl. 222—548)



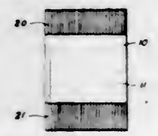
1. The combination of a container comprising a substantially rectangular body and a rectangular top covering said body, said top including a central cylindrical dome having a diameter less than the width of the top and a marginal horizontal surface surrounding the dome and extending horizontally outwardly to the sides of the container, said dome having a horizontal circular top wall formed with a central opening therethrough, a rectangular cover seated on the top wall of the dome, said cover having a flat horizontal under surface which makes slidable sealing contact with the top wall of the dome, said cover being formed with a depending marginal skirt overlying the marginal horizontal surface of the top, the outer wall surfaces of the skirt being substantially flush with the outer wall surfaces of the container therebeneath, said cover having a central cylindrical stem depending therefrom and extending through said central opening, and a fastener mounted on said stem and holding the cover seated on the container while permitting rotation of the cover, said top and cover having openings brought into register to provide a dispensing aperture when the cover is in one position and moved out of register when the cover is rotated to another position, thereby closing said aperture.

2,660,345
METHOD AND APPARATUS FOR PRESSING PLEATS IN FABRIC MATERIALS
Mary G. Hutchins, San Francisco, Calif.
Application July 19, 1951, Serial No. 237,593
1 Claim. (Cl. 223—33)



A fabric pleating device of the character described, comprising in combination, a lower pleating member composed of a sheet of pleated heavy paper, an upper pleating member composed of a sheet of pleated heavy paper and slightly larger in the folds of its pleats than the folds of the pleats of the lower sheet, said sheets being adapted to fit snugly together and to receive a sheet of fabric between them to be pleated thereby, adjustable clamps releasably engageable with the assembled pleating members with the fabric to be pleated therebetween, said clamps engaging said fitted together pleating members along the length of the folds of said lower and upper pleating members and other clamps extending across said folds and releasably engageable with said assembly and adapted to flatten and clamp said upper and lower pleating members flatwise against the fabric therebetween to be pleated.

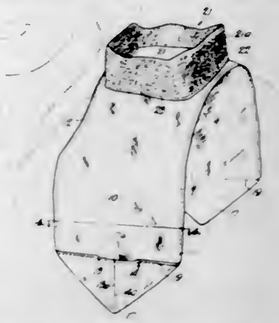
2,660,346
SEWING DEVICE
Mark Maw, Haney, British Columbia, Canada
Application April 3, 1951, Serial No. 219,056
7 Claims. (Cl. 223—100)



1. A sewing device comprising a body having an elongated surface over which material to be sewn may be laid, said surface being curved gently throughout most of its length and having a sharp longitudinal curve at an end thereof, and means beneath the surface through which fingers of a hand may be placed transversely of the surface to hold the latter against the backs of said fingers.

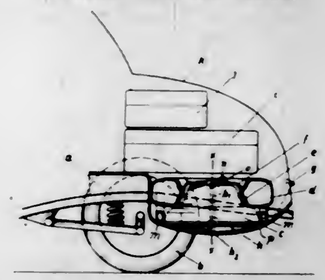
2,660,347
RECEPTACLE
Leatha A. Finney, Bethel, Kans.
Application February 10, 1950, Serial No. 143,400
7 Claims. (Cl. 224—5)

1. A device of the character described, comprising a substantially rectangular, flexible fabric strip adapted to be draped over the shoulder, each end of said strip having its corners folded diagonally inward over a portion of the strip and joined at the confronting inner edges created by the fold to form an open triangular pocket, a removable weight in each of the end pockets, and a receptacle secured to the center portion of the strip, said receptacle comprising a second strip of reinforced fabric having



its ends joined together to form a collar and the lower marginal edge of the collar secured to the center portion of the first strip.

2,660,348
ARRANGEMENT AND CONSTRUCTION OF GASOLINE TANKS
Josef Müller, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application October 26, 1949, Serial No. 123,598
Claims priority, application Germany
November 2, 1948
1 Claim. (Cl. 224—42.14)

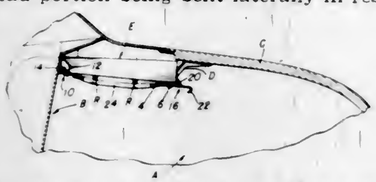


In a motor vehicle, the combination comprising a fuel tank in the shape of a solid of revolution and including a body portion and a dome-like upper portion projecting from said body portion, means for introducing fuel into the body portion of said tank near to the bottom thereof, said body portion defining a support surface for a spare wheel to surround said dome-like portion so that said dome-like portion will extend into the aperture normally forming the hub of the wheel, a venting pipe occupying a substantially vertical position inside the tank with its upper open end inside the tank adjacent the top of said dome-like portion and its lower open end extended through the bottom of the tank to communicate with the atmosphere, a spare wheel superposed on said tank around said dome-like portion and resting on said support, and means securing said wheel in position.

2,660,349
ARTICLE CARRIER MEANS FOR AUTOMOBILE TRUNKS
Arthur F. Bernau, Saginaw, Mich.
Application April 25, 1951, Serial No. 222,795
1 Claim. (Cl. 224—42.42)

For attachment to and use in association with a tubular open ended spring box fixed in the

trunk of an automobile wherein said spring box has one flat side; an article carrier expressly designed for attachment to and suspension on said spring box comprising, in combination, a coil spring adapted to coincide with said one flat side for purposes of clamping an article between itself and said one flat side, a T-shaped bracket attached to one end of said spring, said T-shaped bracket embodying a stem and a head portion, said head portion being bent laterally in respect



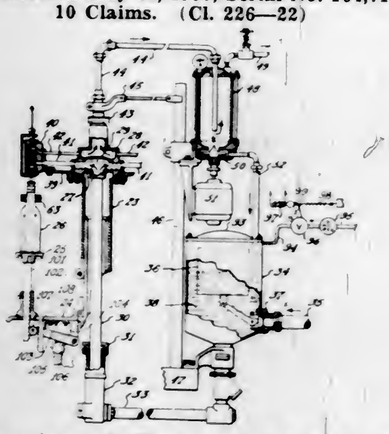
to the plane of said stem and providing a spring tensioned and retained hook, the latter being adapted to be hooked over and thus anchored on one open end of said box, and another bracket attached at one end to the other end of said spring, the other end of said last named bracket being free and having a finger hook and the intermediate portion having an anchoring hook, said anchoring hook being adapted to be hooked over and thus anchored at the other open end of said box.

2,660,350

APPARATUS AND METHOD FOR ACCURATELY FILLING CONTAINERS

Paul R. Fechheimer, Cincinnati, Ohio, assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio, a corporation of Ohio

Application May 27, 1950, Serial No. 164,714
10 Claims. (Cl. 226—22)



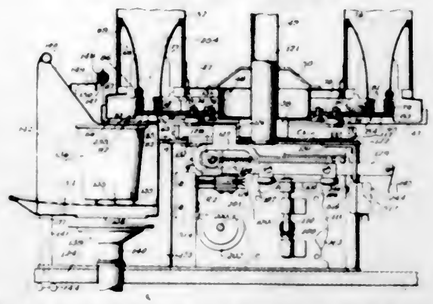
1. A process of filling containers which comprises introducing a liquid filling substance into a container through a filling stem having a seal and comprising filling and exhaust tubes, said stem extending into the container and serving normally to determine a height of fill, producing an overfill of the container by establishing a condition of lower pressure of atmosphere remaining in the container after the liquid has reached the end of said stem than the pressure under which liquid seeks to enter said container by exhausting sufficient air through said exhaust tube, closing said exhaust tube thereby producing an overfill of the container and, when such overfill has been attained, moving the container and said stem relative to each other accompanied by the breaking of said seal, and withdrawing excess liquid from said container through said exhaust tube.

2,660,351

PRODUCT DISPENSING MACHINE

Ernest H. Thompson, Glenview, Ill.

Application March 31, 1951, Serial No. 218,666
24 Claims. (Cl. 226—46.4)



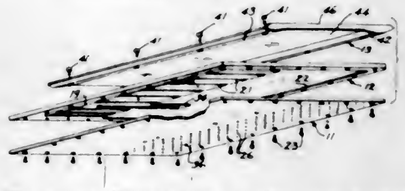
1. A product dispensing machine of the character disclosed comprising a supporting base, a cup support thereon, a thermostatically controlled hot water tank in said base, a magazine unit removably positioned on said base, supported thereby and including a plurality of magazine tubes for various powdered products to be dispensed directly into a cup when on said cup support, said magazine being rotatably indexable and each magazine tube including a charge forming unit, a valve for controlling the flow of water to said hot water tank, a water discharge nozzle on the outlet side of said tank directed toward the interior of a cup when on said cup support, means for operating any one of said charge forming units only when its respective magazine tube is indexed to the cup supporting position and means to thereafter open said valve for discharging hot water from said tank directly into the cup to mix with the powdered product therein and agitate the resulting mixture.

2,660,352

BEVERAGE DEFOAMING DEVICE

Roland E. Renard, Los Gatos, Calif., assignor to Pacific Can Company, San Francisco, Calif., a corporation of Nevada

Application September 15, 1950, Serial No. 185,067
6 Claims. (Cl. 226—69)



1. In a conditioner for open containers of foaming liquids initially having large bubbles, a chest positioned bove the path of travel of said containers, said chest having a screen member perforated in a zone beneath which said containers pass, a body member sealed against said screen member, said body member being formed with a cavity in its surface facing said sceen member and overlying the perforate zone of said screen member, a channel cut into said body member and a plurality of grooves leading from said channel to said cavity, said cavity, said grooves and said channel forming with said screen member passageways for steam, said screen member having a hole in a zone beneath which said containers pass, an additional groove

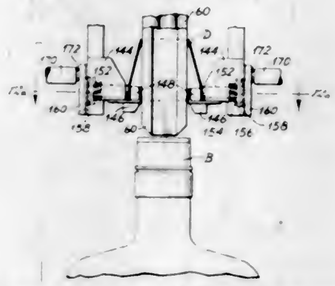
in said body member providing communication for discharge of steam through said hole, first means for providing steam to said channel and second means for providing steam to said additional groove.

2,660,353

BAND APPLYING MECHANISM

George E. Gampp, Kenmore, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey

Application July 24, 1948, Serial No. 40,532
12 Claims. (Cl. 226—80)



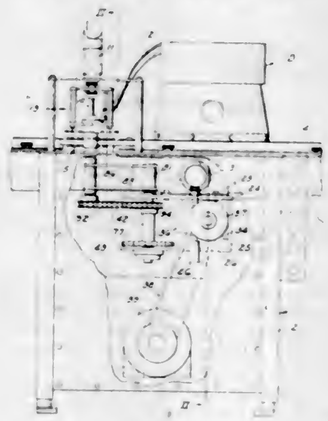
1. In a machine for applying a collapsible banding sleeve to a container, the combination with means for holding open a banding sleeve, a support for holding the containers in position to receive a banding sleeve, of sets of opposed grippers coacting to positively grip one end of a sleeve held by said means, each of said grippers having an inner and outer member adapted to grip an intervening end edge of said sleeve, and mechanism for operating said grippers to grip said end edge of the sleeve held opened by said means and move said grippers to position said sleeve over one end of a container on said support.

2,660,354

INDEXING DEVICE FOR BOTTLE CLOSING MACHINES

Leonard T. Cookson, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

Application December 26, 1951, Serial No. 263,440
5 Claims. (Cl. 226—80)



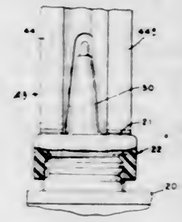
4. In indexing apparatus for a machine for closing bottles, the combination comprising: a frame; a pair of metering devices; metering device supporting and driving means including a pair of driving sprockets for supporting and rotating said metering devices on either side of a path to be travelled by said bottles and in such a position that a line connecting their axes will pass through the center of the bottle when said bottle is in its position for receiving a closure; a pair of arms pivotally affixed to said frame and having at their respective pivoted ends means including a shaft rotatively engaging said metering device driving sprockets; means for simultaneously and intermittently rotating said shaft and a source of constant rotation driving said last-named means.

2,660,355

METHOD OF APPLYING SEALING SPOUTS FOR LIGHTER FLUID CANS

Chester S. Allen, Warren, Pa.

Original application February 9, 1950, Serial No. 143,230. Divided and this application January 6, 1953, Serial No. 329,860
7 Claims. (Cl. 226—81)



1. The method of applying plastic spouts to fluid containers of the type having upwardly extending generally circular external necks which consists in applying annular skirt portions of plastic spouts over the external surfaces of the necks of an aligned row of containers in positions in which the skirt portions are aligned with the sides of the external necks with an intermediate section of the spouts resting on the tops of the necks of the containers, and applying rolling pressure progressively over the sides of the tops of the intermediate sections of the spouts for springing the skirt portions of the spouts into bindng relation with the external surfaces of the necks of the containers.

2,660,356

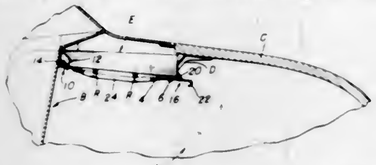
FILLING MACHINE FOR CONTAINERS

Edward F. Rowekamp, Cincinnati, Ohio, assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio, a corporation of Ohio

Application December 15, 1949, Serial No. 133,144
10 Claims. (Cl. 226—95)

1. In a filling machine, spaced sheaves and a substantially horizontal conveyor element passing over said sheaves so as to provide spaced, substantially straight-line flights, a straight-line conveyor for containers juxtaposed to one of said flights, carriages mounted at intervals on the first mentioned conveyor and moved thereby, positioning means for positioning containers with respect to the second mentioned conveyor in such a way that a container lies opposite a carriage, and reservoir means on the carriages for receiving and introducing into the containers opposite them measured increments of filling material,

trunk of an automobile wherein said spring box has one flat side; an article carrier expressly designed for attachment to and suspension on said spring box comprising, in combination, a coil spring adapted to coincide with said one flat side for purposes of clamping an article between itself and said one flat side, a T-shaped bracket attached to one end of said spring, said T-shaped bracket embodying a stem and a head portion, said head portion being bent laterally in respect



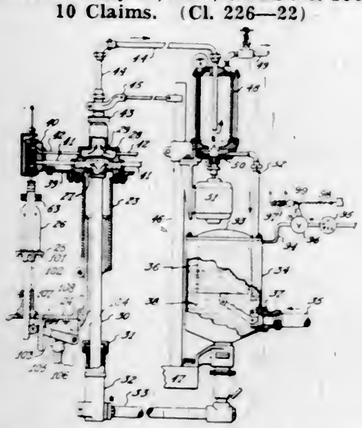
to the plane of said stem and providing a spring tensioned and retained hook, the latter being adapted to be hooked over and thus anchored on one open end of said box, and another bracket attached at one end to the other end of said spring, the other end of said last named bracket being free and having a finger hook and the intermediate portion having an anchoring hook, said anchoring hook being adapted to be hooked over and thus anchored at the other open end of said box.

2,660,350

APPARATUS AND METHOD FOR ACCURATELY FILLING CONTAINERS

Paul R. Fechheimer, Cincinnati, Ohio, assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio, a corporation of Ohio

Application May 27, 1950, Serial No. 164,714
10 Claims. (Cl. 226—22)



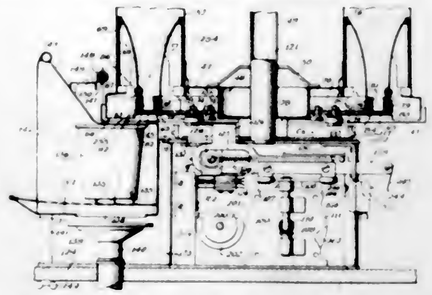
1. A process of filling containers which comprises introducing a liquid filling substance into a container through a filling stem having a seal and comprising filling and exhaust tubes, said stem extending into the container and serving normally to determine a height of fill, producing an overfill of the container by establishing a condition of lower pressure of atmosphere remaining in the container after the liquid has reached the end of said stem than the pressure under which liquid seeks to enter said container by exhausting sufficient air through said exhaust tube, closing said exhaust tube thereby producing an overfill of the container and, when such overfill has been attained, moving the container and said stem relative to each other accompanied by the breaking of said seal, and withdrawing excess liquid from said container through said exhaust tube.

2,660,351

PRODUCT DISPENSING MACHINE

Ernest H. Thompson, Glenview, Ill.

Application March 31, 1951, Serial No. 218,666
24 Claims. (Cl. 226—46.4)



1. A product dispensing machine of the character disclosed comprising a supporting base, a cup support thereon, a thermostatically controlled hot water tank in said base, a magazine unit removably positioned on said base, supported thereby and including a plurality of magazine tubes for various powdered products to be dispensed directly into a cup when on said cup support, said magazine being rotatably indexable and each magazine tube including a charge forming unit, a valve for controlling the flow of water to said hot water tank, a water discharge nozzle on the outlet side of said tank directed toward the interior of a cup when on said cup support, means for operating any one of said charge forming units only when its respective magazine tube is indexed to the cup supporting position and means to thereafter open said valve for discharging hot water from said tank directly into the cup to mix with the powdered product therein and agitate the resulting mixture.

2,660,352

BEVERAGE DEFOAMING DEVICE

Roland E. Renard, Los Gatos, Calif., assignor to Pacific Can Company, San Francisco, Calif., a corporation of Nevada

Application September 15, 1950, Serial No. 185,067
6 Claims. (Cl. 226—69)



1. In a conditioner for open containers of foaming liquids initially having large bubbles, a chest positioned bove the path of travel of said containers, said chest having a screen member perforated in a zone beneath which said containers pass, a body member sealed against said screen member, said body member being formed with a cavity in its surface facing said sceen member and overlying the perforate zone of said screen member, a channel cut into said body member and a plurality of grooves leading from said channel to said cavity, said cavity, said grooves and said channel forming with said screen member passageways for steam, said screen member having a hole in a zone beneath which said containers pass, an additional groove

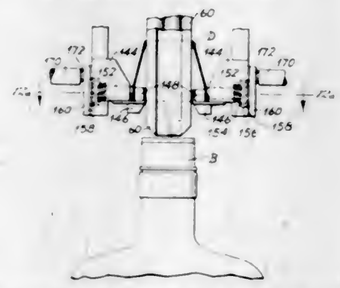
in said body member providing communication for discharge of steam through said hole, first means for providing steam to said channel and second means for providing steam to said additional groove.

2,660,353

BAND APPLYING MECHANISM

George E. Gampp, Kenmore, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey

Application July 24, 1948, Serial No. 40,532
12 Claims. (Cl. 226—80)



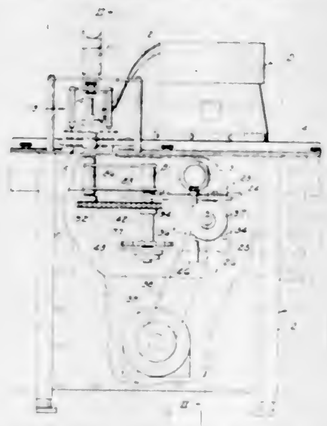
1. In a machine for applying a collapsible banding sleeve to a container, the combination with means for holding open a banding sleeve, a support for holding the containers in position to receive a banding sleeve, of sets of opposed grippers coacting to positively grip one end of a sleeve held by said means, each of said grippers having an inner and outer member adapted to grip an intervening end edge of said sleeve, and mechanism for operating said grippers to grip said end edge of the sleeve held opened by said means and move said grippers to position said sleeve over one end of a container on said support.

2,660,354

INDEXING DEVICE FOR BOTTLE CLOSING MACHINES

Leonard T. Cookson, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

Application December 26, 1951, Serial No. 263,440
5 Claims. (Cl. 226—80)



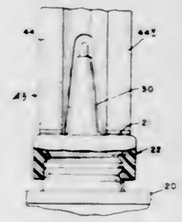
4. In indexing apparatus for a machine for closing bottles, the combination comprising: a frame; a pair of metering devices; metering device supporting and driving means including a pair of driving sprockets for supporting and rotating said metering devices on either side of a path to be travelled by said bottles and in such a position that a line connecting their axes will pass through the center of the bottle when said bottle is in its position for receiving a closure; a pair of arms pivotally affixed to said frame and having at their respective pivoted ends means including a shaft rotatively engaging said metering device driving sprockets; means for simultaneously and intermittently rotating said shaft and a source of constant rotation driving said last-named means.

2,660,355

METHOD OF APPLYING SEALING SPOUTS FOR LIGHTER FLUID CANS

Chester S. Allen, Warren, Pa.

Original application February 9, 1950, Serial No. 143,230. Divided and this application January 6, 1953, Serial No. 329,860
7 Claims. (Cl. 226—81)



1. The method of applying plastic spouts to fluid containers of the type having upwardly extending generally circular external necks which consists in applying annular skirt portions of plastic spouts over the external surfaces of the necks of an aligned row of containers in positions in which the skirt portions are aligned with the sides of the external necks with an intermediate section of the spouts resting on the tops of the necks of the containers, and applying rolling pressure progressively over the sides of the tops of the intermediate sections of the spouts for springing the skirt portions of the spouts into bindng relation with the external surfaces of the necks of the containers.

2,660,356

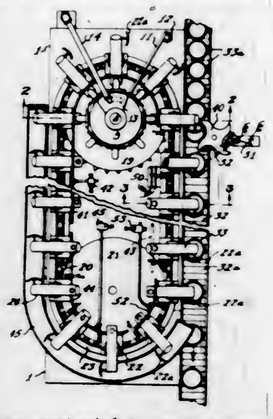
FILLING MACHINE FOR CONTAINERS

Edward F. Rowekamp, Cincinnati, Ohio, assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio, a corporation of Ohio

Application December 15, 1949, Serial No. 133,144
10 Claims. (Cl. 226—95)

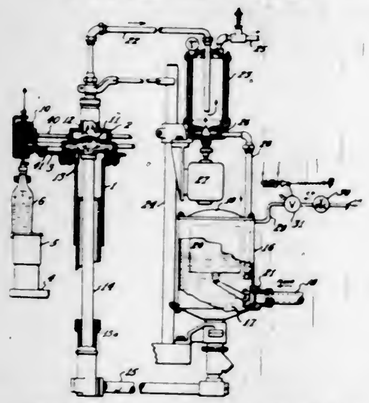
1. In a filling machine, spaced sheaves and a substantially horizontal conveyor element passing over said sheaves so as to provide spaced, substantially straight-line flights, a straight-line conveyor for containers juxtaposed to one of said flights, carriages mounted at intervals on the first mentioned conveyor and moved thereby, positioning means for positioning containers with respect to the second mentioned conveyor in such a way that a container lies opposite a carriage, and reservoir means on the carriages for receiving and introducing into the containers opposite them measured increments of filling material,

and filling means moving in timed relation to said reservoir means for delivering metered quan-



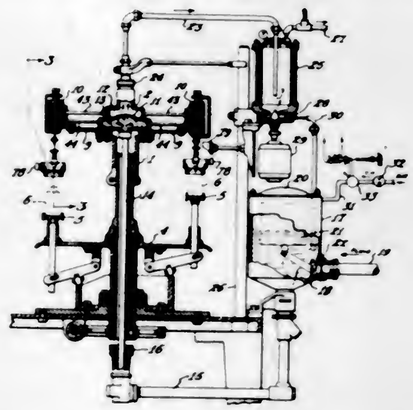
tities of filling material to said reservoir means for subsequent introduction into said containers.

2,660,357
PRESSURE-AND-VACUUM FILLING MACHINE
Paul R. Fechheimer, Cincinnati, Ohio, assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio, a corporation of Ohio
Application May 27, 1950, Serial No. 164,715
22 Claims. (Cl. 226—98)



1. In container filling apparatus a head element formed to provide two chambers one for filling material under pressure and the other for suction, at least one filling spout structure associated with said head and provided with a seal to make a closed system with the container to be filled, said filling spout having connections respectively with said chambers, a reservoir for filling material in communication with the said first mentioned chamber, a trap in communication with the second mentioned chamber, a vacuum pump in communication with said trap, means for exerting superatmospheric pressure in communication with said reservoir, a liquid transmitting connection between said trap and said reservoir including a pump having sufficient force to overcome the suction on said trap and the superatmospheric pressure on said reservoir so as to move filling material from the trap to the reservoir, and a two-way valve in the means for applying pressure to said reservoir, said valve acting in one position to connect the said reservoir with a source of gas under pressure and in another position to connect said reservoir with the external atmosphere whereby rapidly to relieve the superatmospheric pressure therein.

2,660,358
FILLING HEAD FOR FILLING MACHINES
Paul R. Fechheimer, Cincinnati, Ohio, assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio, a corporation of Ohio
Application March 5, 1952, Serial No. 274,969
13 Claims. (Cl. 226—98)

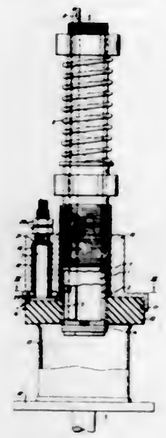


1. In a filling machine, a filling spout structure comprising a body, a filling stem movable vertically relative to said body and having a free end extending beyond said body, a passageway effective through said body to supply filling material to said stem, said stem being movable from a lower position in which it is out of communication with said passageway to an upper position in which it is in communication with said passageway, sealing means on the free end of said stem for contacting the mouth of a container to be filled, whereby upward movement of said container will cause vertical movement of said stem, means effective when said stem is in its uppermost position to exert against said stem a force sufficient only to maintain said sealing member in sealing contact with the mouth of the container, and additional means effective upon filling of the container to supply sufficient additional force against said stem to return it to its lowermost position.

2,660,359
FILLING MACHINE VALVE
Wilbur H. Bulcao, Pittsburgh, Pa., assignor to Horix Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 1, 1952, Serial No. 274,463
5 Claims. (Cl. 226—116)

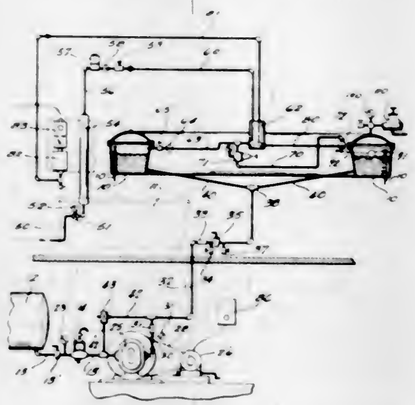
1. In a high speed filling machine, the combination with a vertically movable container support, of a valve comprising a vertical filling tube, a resilient gasket surrounding the lower end of said tube and having a lower sealing surface adapted to be engaged by the lip of an empty container raised up against it by said support, and means above the gasket constantly pushing only a portion of the gasket downward to deform its sealing surface, said means exerting sufficient downward pressure on said portion to cause it to push the container straight down away from some

of said sealing surface as the container support moves down away from the gasket after the container has been filled, whereby to admit air be-



tween the gasket and container so that the container will separate from the gasket and remain seated on the descending support.

2,660,360
METHOD AND APPARATUS TO SUPPLY A BEVERAGE TO A FILLING MACHINE AND FILL CONTAINERS THEREBY
Frank T. Gricar, Jr., Walter J. Sommers, and George L. N. Meyer, Milwaukee, Wis., assignors to Geo. J. Meyer Manufacturing Company, Cudahy, Wis., a corporation of Wisconsin
Application September 17, 1949, Serial No. 116,356
19 Claims. (Cl. 226—117)



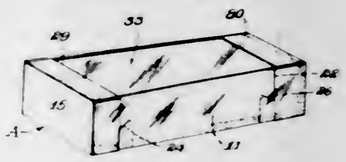
1. The method of supplying a carbonated beverage from a tank to a filler bowl, comprising, maintaining gas in the filler bowl at a predetermined constant counter-pressure, venting gas in excess of said pressure, utilizing a valveless rotary positive displacement pump to supply beverage from the tank to the filler bowl and maintaining the level of the beverage in the filler bowl substantially constant by utilizing a portion of the pressure supplied to said bowl to control the pumping action.

2,660,361
PARTITIONED CARTON
Walter J. Tyrseck, Montville, Conn., assignor to Robertson Paper Box Company Incorporated, Montville, Conn., a corporation of Connecticut
Application August 8, 1950, Serial No. 178,187
3 Claims. (Cl. 229—28)



1. A blank for forming a partitioned folding carton, comprising an aligned series of panels foldable to form a rectangular box structure, and a pair of partition forming panels hinged to the edges of two alternate wall panels, each such partition forming panel being generally of the form of a slant parallelogram, having a strip adjacent its hinge edge foldable flat against the wall panel to which it is attached, a strip adjacent its opposite edge positioned for attachment to the corresponding strip of the other partition forming panel when the partition panels are folded over on the wall panels and the wall panels are folded over on their score lines, and a plurality of diagonal slits forming diagonally extending strips connecting said edge strips.

2,660,362
COVERED TRAY
Paul A. Schilling, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application March 8, 1948, Serial No. 13,547
2 Claims. (Cl. 229—35)

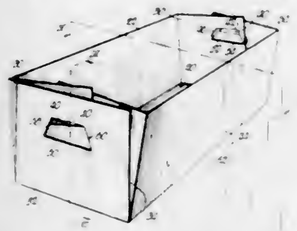


1. A carton including a tray comprising a rectangular bottom panel and four right angularly arranged side walls connected thereto, means connecting said walls to hold said side walls in rectangular relation, a pair of flaps foldably connected to the upper edges of two opposed of said side walls and coextensive therewith, said flaps being bent inwardly into a plane parallel with the bottom panel, and a covering sheet sealed to the outer surfaces of said flaps and extending beyond the side edges thereof, said covering sheet being rectangular and substantially coextensive in length to the remaining two opposed side walls, the width of the covering sheet being substantially equal to the total of the width of the carton top and the height of both said remaining side walls, said covering sheet extending down over said remaining side walls and marginally sealed to the outer surfaces along the bottom and end edges thereof, the seal between said covering sheet and said flaps and remaining opposed side walls providing a continuous seal about substantially the entire periphery of said covering sheet.

2,660,363
COLLAPSIBLE BOX HAVING INTERLOCKING END WALLS

Lawrence G. Trickett, Jr., Kansas City, Kans., and Clark O. Deem, Kansas City, Mo., assignors to Crook Paper Box Company, North Kansas City, Mo., a corporation of Missouri

Application April 11, 1949, Serial No. 86,764
2 Claims. (Cl. 229—35)

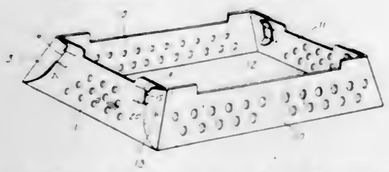


1. In a box, a bottom wall; a pair of opposed side walls; and a pair of opposed end walls, each including a pair of overlapping inner flaps and an outer flap overlapping the inner flaps, there being a hinge connection for each side wall respectively joining the same integrally with the bottom wall, a hinge connection for each inner flap respectively joining the same integrally with a corresponding side wall, and a hinge connection for each outer flap respectively joining the same integrally with the bottom wall, each flap having a trapezoidal opening, each flap opening having a lowermost linear edge, a shorter uppermost linear edge, and a pair of linear side edges converging toward the uppermost edge, said edges forming the openings of the flaps, each of the outer flaps being provided with a trapezoidal tab having a lowermost linear edge, a shorter uppermost linear edge, and a pair of linear side edges converging toward the uppermost edge of the tab, the uppermost edge of each tab being common to the uppermost edge of the opening of its outer flap and constituting a hinge connection integrally joining the tab with its outer flap, the tabs extending through the openings of the inner flaps and having their converging edges engaging the converging edges of the inner flaps whereby, as the side walls swing apart relative to the bottom wall, the inner flaps will be drawn tightly against their corresponding outer flaps.

2,660,364
CORNER LOCK FOR CORRUGATED FIBERBOARD BOXES

Kenneth C. Ferguson, Indianapolis, Ind., assignor to Anderson Box Company, Indianapolis, Ind., a corporation

Application May 12, 1951, Serial No. 226,079
2 Claims. (Cl. 229—35)

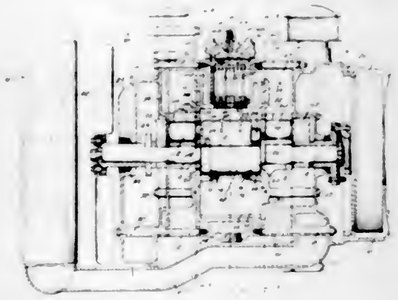


1. In a fibre board box structure formed from a blank to provide side and end walls, a corner lock for securing the adjacent ends of said walls in box formation, a tongue portion extending from the terminal edge of one of said walls having opposed laterally extending locking ears bendable thereon, each of said ears having its forward and lateral edge curved throughout its length to present a continuous camming face, and a locking flap cut from a tongue receiving locking opening in the said adjacent wall with one end thereof hinged thereto at its far side from said tongue, said locking flap being tapered inwardly from its hinged end toward its free end and being wider at its hinged end than the tongue portion between the lines of bend of said ears to intercept and be engageable by the camming faces of said ears to be cammed inwardly thereby to substantially the length of said tongue for admitting said tongue through said opening and to permit said flap to thereupon return to normal position upon its disengagement by said tongue with the tongue extending on the opposite side thereof from its said wall, whereby said ears will be freed from camming engagement with said flap to extend into interlocking engagement with the adjacent wall, substantially as shown and described.

2,660,365
FLUID PUMP

Win W. Paget, Mountain Brook, Ala., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 5, 1951, Serial No. 230,041
11 Claims. (Cl. 230—30)



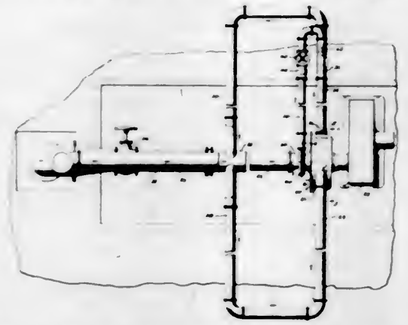
1. A fluid pump comprising a polygonal housing having a sealing surface at the intersection of each pair of adjacent sides of said housing, a piston element in the housing of the same shape as the housing, sealing elements slidably mounted in the corners of the piston element and having outer edges in sealing engagement with the ceiling surfaces, means to impart movement to the piston element such that every point thereof describes a circle, septum providing means enclosing the housing ends, and valve means permitting inlet and discharge of a fluid with respect to the housing, the housing, piston element, sealing elements, and septum providing means forming a plurality of pumping chambers, and at least one of the valve means comprising one of said septum providing means provided with elongated ports disposed with their long axes substantially parallel to the sides of the polygonal housing.

2,660,366
COMPRESSOR SURGE INHIBITOR

Harold Klein, Los Angeles, Calif., and Eugene B. Laskin, Baltimore, Md.

Application May 3, 1950, Serial No. 159,802
5 Claims. (Cl. 230—115)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. Apparatus for increasing the surge-free, stable-air-flow range of a rotary compressor by the recirculation of a part of the air compressed by the compressor therethrough, said compressor provided with a housed bladed impeller, an inlet and an outlet therefor, said apparatus comprising a conduit connecting the pressure side of said impeller with and around the interior of said inlet near the inlet face of said impeller for recirculating a part of the air flow through said compressor, and scroll means in the compressor

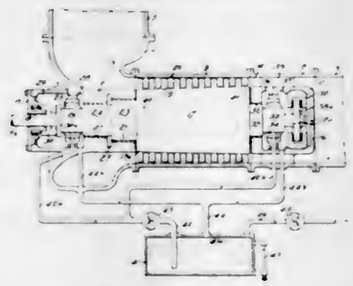


inlet end of said conduit for imparting rotational movement to said recirculated air, accelerating said rotating air and projecting it tangentially into said compressor inlet at right angles to the direction of compressor air flow to thereby inhibit surging in the air flow through the compressor and to increase the surge-free, stable-air-flow range thereof, said scroll means including a single-turn tubular volute having an inner continuous opening therearound.

2,660,367
COMPRESSOR SEALING ARRANGEMENT

Arnold H. Ehlinger, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application October 31, 1951, Serial No. 254,155
12 Claims. (Cl. 230—204)

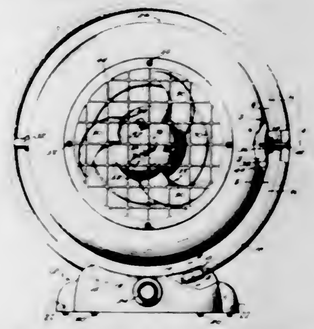


1. An elastic fluid compressor comprising: a rotor; a casing enclosing said rotor in a manner providing fluid inlet, compressing and discharge sections disposed in series flow relation, said casing including a hub portion at its inlet end presenting a continuous interior surface surrounding the corresponding end portion of said rotor and including a pair of axially spaced continuous cylindrical surfaces having a sealing coaction with said end portion of said rotor; a bearing structure carried by said interior surface in spaced axially outward relation with respect to the outer one of said pair of surfaces, and rotatably supporting the adjacent end of said rotor; a first means placing said discharge section in communication with the space between said pair of surfaces; and a second means for exhausting gas entering the space between said bearing structure and the outer one of said pair of surfaces.

2,660,368
HINGE MOUNTING FOR ANGULAR ADJUSTMENT

Frederick W. Schmidt, Branford, and William Francis Moore and Arthur R. Edberg, New Haven, Conn., assignors to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland

Application October 5, 1950, Serial No. 188,524
7 Claims. (Cl. 230—273)



1. Pivot construction for automatically maintaining a supported swingable unit in chosen angular positions, comprising in combination with the swingable unit, a bifurcate support having branch arms flanked respectively opposite sides of said unit for supporting the same, coaxial hollow hinge posts confined respectively within spaces between said arms and said unit, each hinge post having one end abutting and fitting against said unit in a manner to permit relative rotary movement therebetween and having its other end fast to the arm in a manner to prevent relative rotary movement between said post and arm, a hinge pin extending freely through each of said arms and through the hinge post fast thereto, said pin having one end projecting beyond the end of said post remote from the arm into holding engagement with the adjacent side of said unit, and retaining means on the other end of each of said hinge pins engaging said arm in a manner to oppose separation of said unit from the first said end of the hinge post.

2,660,369
CARRIAGE CONTROLLED TOTALIZER CONTROL MECHANISM

George K. Schulz, Rockville, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application August 30, 1950, Serial No. 182,195
5 Claims. (Cl. 235—60.39)

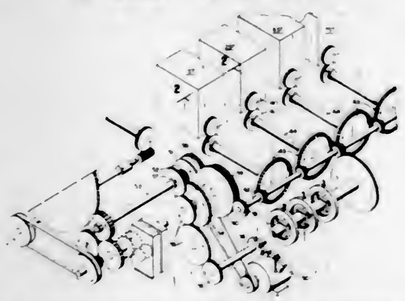
2. A combined typewriting and computing machine comprising, a letter spaceable carriage, a plurality of add-subtract totalizers, carriage carried means for conditioning the totalizers for receiving amounts additively or subtractively selectively in a plurality of carriage zones, a set of indexable differential actuators associated with each totalizer for running indexed amounts into said totalizers additively or subtractively in accordance with the selection of the carriage carried means, a set of normally inactive value sensing devices associated with each totalizer, a first totalizer control means operable by said carriage car-

ried means at a first position within a zone for conditioning a set of actuators for indexing, means for activating the set of value sensing devices associated with the totalizer corresponding to the set of conditioned actuators, said first totalizer control means also conditioning its associated totalizer for subtractive operation, a second totalizer control means operable by said carriage carried means at a second position within the zone for conditioning a second set of actuators for indexing, said second totalizer con-



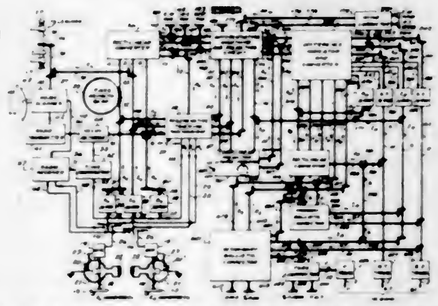
trol means also conditioning its associated totalizer for additive operation, means controlled by the set of activated value sensing devices for indexing both sets of actuators in accordance with the amount in the totalizer being sensed, and a cycling general operator for running the indexed amount into both totalizers in accordance with additive and subtractive operations determined by the carriage carried means, to thereby clear the first totalizer and to cause the amount to be entered into the second totalizer.

2,660,370
STORAGE DEVICE
George F. Daly and Francis V. Adams, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application October 8, 1948, Serial No. 53,456. Divided and this application September 17, 1952, Serial No. 310,104
2 Claims. (Cl. 235—61)



1. A number storage device with settable elements controlled by differentially timed impulses received in one cycle with read-out means controlled thereby from which readout may be effected in following cycles, restoring means normally biased to restoring position to concurrently restore a plurality of said settable elements, means to latch said restoring means in a position in which restoring operations are suppressed, a trip magnet for releasing said latching means to cause said restoring means to restore said settable elements to a position for a new setup upon the immediately following cycle and cam means for positioning said restoring means for permitting the setup of said settable elements.

2,660,371
GUN DIRECTING SYSTEM
David J. Campbell, Richmond Hill, Selden P. McCabe, Jr., Freeport, and Herbert Harris, Jr., Cedarhurst, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application August 28, 1943, Serial No. 500,349
18 Claims. (Cl. 235—61.5)

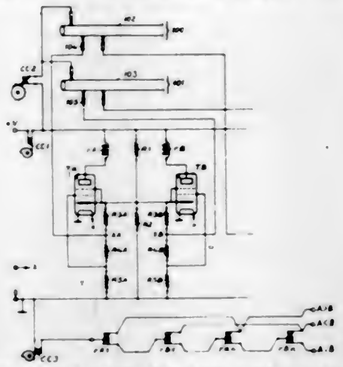


1. In a gun directing system, means for computing horizontal range and altitude coordinates of shell burst position, means for computing corresponding coordinates of the future position of a target, means controlled by the respective means according to the differences between corresponding computed coordinates for producing respective error signals proportional to said differences, a transformer provided with primary windings jointly energized by the respective error signals, a rotary secondary member therefor, means for angularly displacing the rotary secondary member in accordance with quadrant elevation, and circuit means including the secondary member for producing a time of flight error signal.

2,660,372
DEVICE FOR COMPARING VALUES REPRESENTED BY PULSES
Bruno M. J. Leclerc, Fontenay sous Bois, France, assignor to Compagnie des Machines Bull (Societe Anonyme), Paris, France
Application June 18, 1952, Serial No. 294,225
Claims priority, application France July 19, 1951
8 Claims. (Cl. 235—61.7)

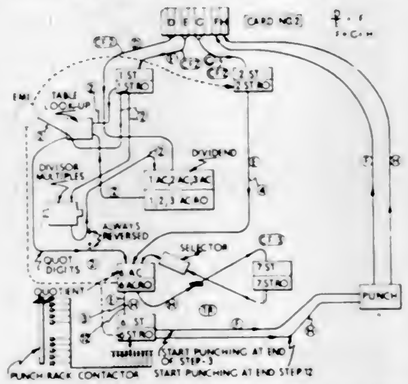
1. In an accounting machine for comparing record cards bearing record marks in index point locations in columns to be compared, two record card feeding tracks each provided with sensing means adapted to the simultaneous sensing of one column to be compared in both record cards, two gas discharge tubes each having a grid input circuit and a plate output circuit, the cathode of both tubes being connected by a connection, each plate circuit comprising an electromagnetical relay and each grid circuit a tapped resistor, one end of which is connected to the earth and the other directly to the cathode of the tube, and also to a source of high potential through a feeding resistor and to the earth through an earthing resistor, said feeding and earthing resistors being common to both tapped resistors, a connection for connecting a tap on one said

tapped resistor to its related control grid and another connection for connecting a like tap on the other said tapped resistor to its related control grid, two connections for conveying the impulses derived from said sensing to another tap respectively on each said tapped resistor so



as to vary the cathode and grid potentials of the related tubes and obtain according to the presence of the first mark sensed in either column under comparison, or of two simultaneous or zero marks sensed in the two columns under comparison respectively, the firing of only one tube or no firing.

2,660,373
CALCALATING PUNCH
George F. Daly and Francis V. Adams, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 8, 1948, Serial No. 53,456
65 Claims. (Cl. 235—61.8)



1. In a cyclically operable calculating machine, including an accumulator settable to represent a product, a number storing means settable to represent a multiplier, a number storing means settable to represent a multiplicand, means to test the multiplier storing means, means for setting the machine for normal sign or reversed sign operations, cyclically operable means including entry effecting means and cyclically operable selecting means responsive to tested digits of 1, 2, 4, 5 and 9 upon normal sign operations and responsive to tested digits whose nines complements are 1, 2, 4, 5 and 9 upon reverse sign operations for entering LH and RH partial product components into the accumulator in a single accumulator entry cycle, means responsive to tested digits 4 and 9 upon normal sign operations and to digits whose nines complements are 4 and 9 upon reverse sign operations for controlling the aforesaid setting means to shift from normal sign to reverse sign operations and vice versa following the single cycle entry of the LH and RH partial product components relating thereto into the accumulator, and cyclically operable means including entry effecting means and cyclically operable selecting means responsive to other tested digits for entering LH and RH partial product components into the accumulator by successive accumulator entry cycles.

3. A calculating punch including a record reading section, a number storage section including a plurality of number storage units settable to represent numbers, an accumulating section and a punching section, entrance and exit controls for each number storage unit, separate and independent exit and entrance controls for the accumulating section, exit controls for the reading section, entrance controls for the punching section, a program section including a program read and preparing relay which is set under control of the record reading section when a record is to be read, program controls under the control of said read and preparing program relay for controlling the operations which are to be selectively effected during a record read cycle, and a plurality of program step relays for controlling selectively the entrance and exit controls above mentioned for various machine operations which are to be effected in a following machine cycle or cycles, means for setting up the first of the program step relays under control of the program relay and means for setting up others of the program step relays under control of a preceding step relay.

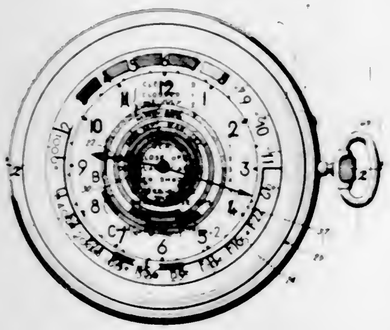
2,660,374
KEY-SET-KEY-RESPONSIVE CALCULATING MACHINE
George W. Hopkins and Donald L. Rolph, San Leandro, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California
Application July 30, 1948, Serial No. 41,526
20 Claims. (Cl. 235—62)



1. In a calculating machine of the class described having means for giving the machine cycles of operation and means for initiating operation of said cycling means; the combination of a keyboard having a plurality of orders of depressible amount keys each order of which comprises a plurality of keys; an amount registering means; a differential mechanism controlled by said amount keys for causing an amount to be entered into said registering means; and means for effecting, in a single cycle of said cycling means, entry in said registering means of a multi-digit value set in a plurality of orders of said keyboard, comprising a slide movable from one position to another for operating said ini-

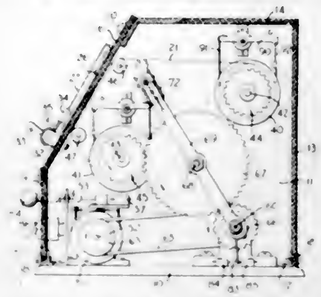
tiating means; means for resiliently urging said slide to move from said one position to said other position; a primary latch device engageable with said slide for restraining said slide against movement under the influence of said urging means and being biased to move to a non-restraining position with respect to said slide and thus release said slide to be moved by said urging means; another latch device engageable with said primary latch device for retaining the latter in position for restraining said slide; and means including a displaceable element common to all of the keys of the lowest only of said orders of keys and operable by any one of said keys of said lowest order for disabling said other latch device and releasing said primary latch device and said slide for movement so as to cause operation of said initiating means.

2,660,375
PHOTOGRAPHIC EXPOSURE CALCULATOR
Pierre Henri Carquillat, Monthey, Switzerland
Application November 30, 1949, Serial No. 130,325
Claims priority, application Switzerland
December 8, 1948
10 Claims. (Cl. 235—64.7)



1. An exposure-indicating arrangement to facilitate the taking of photographs in daylight comprising: a chart including a watch-like dial having marks corresponding to the hours of the day and a plurality of plots divided into segments and arranged concentrically on said dial, each of these plots corresponding to a given period of the year and each of the segments of each plot indicating the average lighting at a predetermined latitude, for the period of the year to which this plot corresponds and for the period of the day with which this segment registers on said dial, said chart serving to provide the value of a first parameter corresponding to the prevailing average lighting, and a device for obtaining the value of one of two setting parameters comprising the period of exposure and the aperture of the lens, taking into account the chosen value of one of these two parameters and the values of three additional parameters characteristic, respectively, of the subject to be photographed, the condition of the atmosphere and the sensitiveness of the emulsion used, said device comprising a stationary part and a rotatable part concentric therewith, each of said parts carrying plots corresponding to at least two of said parameters; and means for rotating said rotatable part with respect to the stationary part so as to bring the chosen values of the parameters into registration and to obtain thereby the value of the said one of the setting parameters.

2,660,376
PAYROLL COMPUTER
James M. Stanford, Fort Lauderdale, Fla.
Application April 30, 1952, Serial No. 285,101
4 Claims. (Cl. 235—86)

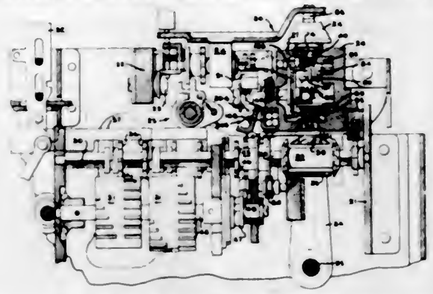


1. A payroll computer comprising: a casing having a base, a front panel secured to and upstanding from said base, a window casing secured to the top edge of said front panel, a pair of side panels upstanding from said base and secured to opposite sides of said front panels; a pair of parallel spools extending transversely between said side panels and having their ends rotatably journaled therein, a pair of spur gears on corresponding ends of said spools and a pair of self-energizing brake bands secured about the ends of said spools opposite said spur gear mounting ends; an idler gear shift lever pivotally secured at its lower end to the lower portion of said casing; an idler gear rotatably journaled on said lever for alternate engagement with said spur gears; a variable speed reversible electric motor secured to said base, pulley and belt drive means drivingly connecting said motor to said idler gear and motor control means secured to the front face of said front panel; a tape guide roller parallel to the lower edge of said window casing and journaled in said side panels, a tape guide roller parallel to the upper edge of said window casing and said first-mentioned roller and journaled in said side panels; a pair of normally open switches placed in the electric motor circuit adapted to reverse the direction of rotation of said motor; a switch actuating finger intermediate said switches and secured at one end to said lever, said finger being adapted to alternatively close said switches as said lever is pivoted to alternatively mesh said idler gear with said spur gears; and a tape threaded intermediate said guide rollers and said window casing and secured at opposite ends to said spools for alternate winding thereupon.

2,660,377
CONSTANT FACTOR MECHANISM
Harold J. Chall, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application March 20, 1950, Serial No. 150,623
14 Claims. (Cl. 235—144)

1. In a calculating machine, a register provided with a plurality of ordinally arranged dial shaft assemblies, a clutch member slidably and non-rotatably mounted on each such dial shaft assembly, a mutilated resetting gear assembly rotatably mounted on each such dial shaft assembly, a complementary clutch member on each such gear assembly, a resetting rack operable to simultaneously restore all of the said mutilated gear assemblies to a predetermined reset position, resilient means tending to urge each such slidably mounted clutch member into driving

engagement with its complementary clutch member, means for simultaneously declutching all of the dial shaft assemblies from driving engagement with their respective mutilated gear assemblies, a manipulable member to control said



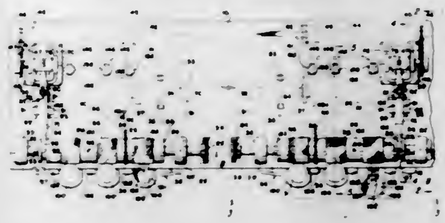
declutching means and for selective retainment of said dial shaft assemblies in declutched position with respect to said gear assemblies, and means for adjustably turning each such dial shaft assembly while thus declutched from engagement with its associated resetting gear assembly.

2,660,378
BOILER CONTROL APPARATUS
William S. Smoot, Highland Park, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois
Application July 8, 1950, Serial No. 172,701
10 Claims. (Cl. 236—24.5)

3. Control apparatus for a steam generator having an air supply connection and a steam outlet connection comprising control means for the air supply, a controller for the control means, an operating element in the controller connected to the steam outlet connection and instantaneously responsive to steam pressure, delayed action means in the controller gradually to cancel the effect of the first named means, and a delayed action operating element in the controller responsive to steam flow to operate the control means and thereby vary the air supply.

2,660,379
BALL WINDING MACHINE
Paul Rekettye, Akron, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio
Application July 3, 1951, Serial No. 235,042
9 Claims. (Cl. 242—3)

1. A ball winding machine comprising an elongated drum, means to rotate the drum, means to reciprocate the drum on its axis during rotation, a plurality of arms, one of which is located adjacent each drum, an open cradle on each arm in which a ball may freely rotate, yielding means acting on each arm to hold a ball in

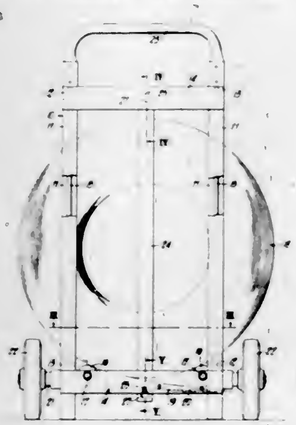


its cradle in contact with the drum, individual time controlled means acting on each arm to shift the arm and separate the ball carried thereby out of contact with the drum, and means to feed cord to the balls in the several cradles.

2,660,380
PAPER FEED MECHANISM FOR RECORDERS
Birt G. Blackman and Donald O. Nelson, Los Angeles, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 17, 1950, Serial No. 156,286
3 Claims. (Cl. 242—55)

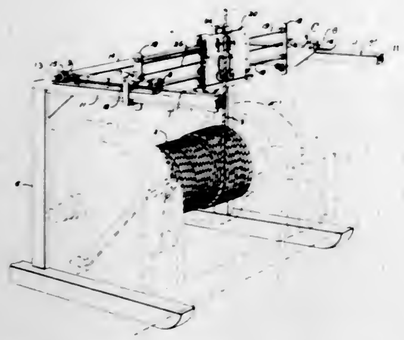
1. A tape pulling mechanism for drawing a tape past a predetermined position and maintaining lateral alinement of the tape at said position, said mechanism comprising: a flanged take-up spool having flanges spaced the width of the tape, means rotatably supporting said spool in spaced relation to said predetermined position, and means for applying torque to said spool to wind up tape delivered thereto; a pair of feed rollers positioned between said spool and said position adapted to engage said tape therebetween; means for urging said rollers together to grip the tape therebetween; and means for positively rotating one of said rollers to feed the tape at a desired speed; in which one of said rollers has a peripheral surface of uniform diameter extending the full width of said tape, and the other roller has a central peripheral surface zone of uniform diameter and substantially less width than said tape and has zones of lesser, uniform diameter extending from the margins of said central zone to the ends of the roller, said central peripheral surface zone being shorter than said zones of lesser diameter.

2,660,381
ADJUSTABLE RACK
Anton J. Friedl and Willis E. Shipley, Chicago, Ill., assignors to United States Steel Corporation, a corporation of New Jersey
Application August 8, 1951, Serial No. 240,961
7 Claims. (Cl. 242—105)



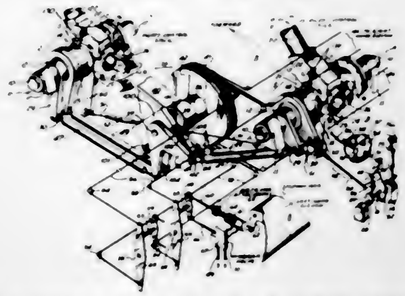
1. A rack for holding articles the thickness of which is small in comparison to their other dimensions, comprising a cage made up of spaced posts, cross bars and side bars extending between adjacent posts, a locator bar extending between the side bars intermediate the cross bars, said locator bar having notches spaced therealong, and an article-confining bar extending parallel to said posts, shiftable along said locator bar and having a slot adapted to cooperate with said notches whereby the last-mentioned bar may be selectively set into one of a plurality of positions.

2,660,382
LEVEL WINDING DEVICE
John Hart Wilson, Wichita Falls, Tex.
Application April 2, 1948, Serial No. 18,623
32 Claims. (Cl. 242—158)



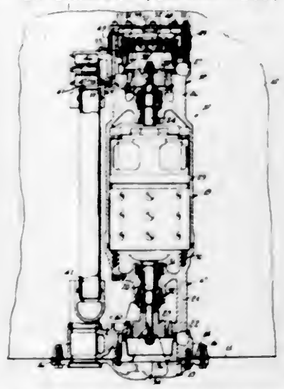
1. In a cable winding device, traversing mechanism for laying successive turns of a cable on a drum including a guide head having cable guide means thereon, power means for moving the guide head in a direction to guide the cable, and means actuated by the cable for controlling the operation of the power means.

2,660,383
ELEVON STICK CONTROL
Thomas A. Feeney, Los Angeles, and Wallace B. Pierce, Burbank, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application February 21, 1949, Serial No. 77,592
4 Claims. (Cl. 244—83)



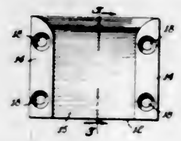
1. A control system for an airplane, comprising a pilot's control assembly including a pilot's control stick mounted to rotate around intersecting longitudinal and lateral axes in said airplane, a pair of driving gear sectors mounted to be rotated by said stick around an axis coaxial with one of said axes, a pair of driven gear sectors positioned to mesh with said driving gear sectors and rotatable coaxially with the other of said axes, a driving lever connected to move with each of said driven gear sectors, a driven lever connected to move with each of said driving levers, a pair of airplane control surfaces each connected to be moved with movement of a driven lever, said driven levers being coaxially mounted and positioned in side by side and coradial relation when said control stick is in neutral position, and elastic means interconnecting said driven levers and positioned to urge said driven levers into said coradial position when said driven levers are separated in either direction due to rotation of said stick around said longitudinal axis.

2,660,384
PUMP ASSEMBLY
Frederick E. Smith, Cleveland Heights, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application June 21, 1951, Serial No. 232,753
13 Claims. (Cl. 244—135)



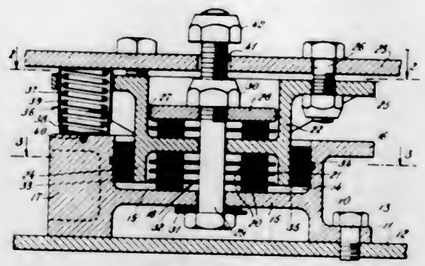
1. An aircraft fuel system, comprising, a fuel cell for volatile fuel, a pumping unit including a plurality of impellers and a common drive motor for said impellers, said pumping unit having a common outlet and a separate inlet for each of said impellers, said pumping unit arranged in said fuel cell with each of said inlets at a different level so that a lower inlet will be submerged under normal flight conditions, a valve in an upper inlet, a pressure loaded control means operably connected to said valve to selectively close said valve, passageway means between said outlet and said pressure loaded control means bleeding discharge pressure to said pressure loaded control means to close said valve and unload the impeller of the valved pumping unit, and additional control means engaging said pressure loaded control means to inactivate said pressure loaded control means in response to abnormal flight conditions whereby said valve may open to reload the impeller with fuel.

2,660,385
TRANSOM PLATE FOR OUTBOARD MOTORBOATS
Archibald A. Moran, Mendham, N. J.
Application July 18, 1950, Serial No. 174,409
1 Claim. (Cl. 248—4)



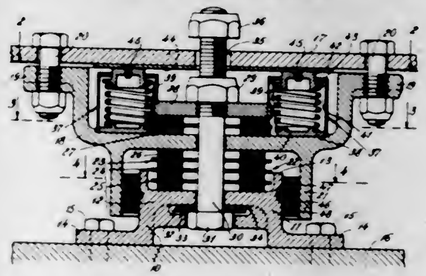
A transom plate for attachment to the stern board of an outboard motor boat, comprising a generally rectangular block of hard rigid material, a pair of ribs projecting from the front of said block along its side edges and having generally rounded upper ends, and a tapered section having a beveled upper edge and extending across the face of said block between said ribs to provide a channel adapted to receive a clamp button of an outboard motor, said channel increasing in depth from the top to the bottom of said block.

2,660,386
VIBRATION AND SHOCK ISOLATOR
George Rolfe Munro, Massapequa, N. Y., assignor to Waugh Equipment Company, New York, N. Y., a corporation of Maine
Application December 29, 1951, Serial No. 264,011
4 Claims. (Cl. 248—21)



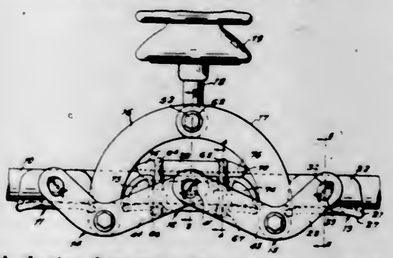
1. A mount for isolating vibration and absorbing shock between an object and a support, which comprises a base adapted to rest upon a support, means for securing the base rigidly to the support, a head, means for connecting the head to the object above the base, said means permitting limited vertical movement of the head relative to the object, shock-absorbing means connected to the base and engaging the head to resist vertical movement of the head toward and away from the base, shock-absorbing means engaging the head and base and resisting relative lateral movement of the head and base, and vibration-isolating means seated on the base at one end and adapted to engage the object at the other, said vibration-isolating means tending to urge the object away from the base to the limit permitted by said connecting means.

2,660,387
VIBRATION AND SHOCK ISOLATOR
Nereus H. Roy, Glenbrook, Conn., assignor to Waugh Equipment Company, New York, N. Y., a corporation of Maine
Application December 29, 1951, Serial No. 264,049
4 Claims. (Cl. 248—21)



1. A mount for isolating vibration and absorbing shock between an object and a support, which comprises a base adapted to rest upon the support, means for securing the base rigidly to the support, a head, means for connecting the head to the object above the base, said means permitting limited vertical movement of the head relative to the object, shock-absorbing means connected to the base and engaging the head to resist vertical movement of the head toward and away from the base, shock-absorbing means engaging the head and base and resisting relative lateral movement of the base and head, and vibration-isolating means seated on the head at one end and adapted to engage the object at the other, said vibration-isolating means tending to urge the head and object apart to the limit permitted by said connecting means.

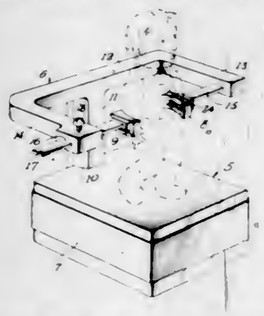
2,660,388
SUSPENSION CLAMP
Robert L. McCoy, Baltimore, Md., assignor to General Electric Company, a corporation of New York
Application August 22, 1947, Serial No. 770,071
5 Claims. (Cl. 248—63)



2. A device for supporting a transmission line conductor, said device comprising an odd number

of equally spaced apart support saddles, a plurality of links interconnecting said saddles for relative movement with respect to each other, a central supporting member, and a support yoke pivotally connected to individual links in between said support saddles and pivotally connected to said central supporting member.

2,660,389
ANIMATOR'S STAND
Henry Lion, Los Angeles, Calif.
Application October 2, 1948, Serial No. 52,523
2 Claims. (Cl. 248—161)



1. An animator's stand comprising, in combination, a pedestal having a top face and a rear face and a vertical slideway in said rear face; a yoke comprising a vertical slide extension adjustably engaged in said slideway, an integral horizontal cross bar on the upper end of said extension and above said rear face of the pedestal, the length of the cross bar being at least equal to the width of the pedestal, a forwardly extending integral horizontal arm on each end of the cross bar, said cross bar and arms forming a horizontal open frame above the top face of the pedestal and adjustable relative to the latter according to the adjusted position of the slide extension in the pedestal slideway; a horizontal figure-engaging element affixed to one said arm and extending toward the other arm; a similar horizontal figure-engaging element adjustably carried by said other arm and in opposed relation to the first element to grip the sides of and hold a figure in a predetermined position to and above the pedestal top face and in the opening of said open frame; and an elastic member encircling the pedestal and engaging the mentioned slide extension to hold the yoke in vertically adjusted position.

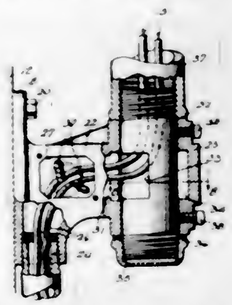
2,660,390
ANTIGLARE VISOR MOUNTING BRACKET
Lawrence H. Schultz, Batavia, N. Y.
Application October 25, 1949, Serial No. 123,473
2 Claims. (Cl. 248—278)

1. In an anti-glare visor mounting bracket, a plate adapted to be secured to a support adjacent to a windshield, a split socket fixed to and projecting from said plate with its axis normal to the plate, a lug rotatably engaged in said socket, means for contracting the socket to hold said lug in adjusted rotated position therein, said lug having a split end portion outside of said socket including a bore extending crosswise of said lug and communicating with the split of said end portion, an arm extending crosswise of said lug having a portion journaled in the bore of the split end portion of the lug, means for contracting said split end portion of the lug to hold said arm in an adjusted rotated position relative to the lug, said arm having a split tubular end portion, a visor plate mounting rod having an end rotat-



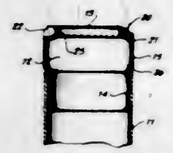
ably inserted in the split end portion of the arm, and means for contracting the split end portion of the arm to hold the visor mounting rod in rotatably adjusted position.

2,660,391
BRACKET
Nathan E. Passman, Chicago, Ill., assignor to Nathan E. Passman and Anne G. Passman, doing business as Nepo Manufacturing Co., a copartnership
Application October 9, 1952, Serial No. 313,879
1 Claim. (Cl. 248—289)



A bracket comprising a support for attachment to a stationary member, said support including an apertured hollow first section mounted on such a stationary member and extending transversely therefrom and being provided with a passageway disposed adjacent the portion of said first section engaging such stationary member and communicating with the interior of said first support section, and an apertured hollow second section integral with said first section and disposed substantially at right angles with respect thereto and spaced from the stationary member on which said first section is mounted, said second section including a pair of spaced aligned bushing portions, an elongated hollow apertured cylindrical connecting element disposed within said second support section, and supported for swivel movement by said bushing portions, said connecting element having a peripheral portion thereof disposed intermediate said bushing portions and with the interior of said second section spaced therefrom to form an annular passageway therebetween communicating with the interior of said first section, said peripheral portion of said connecting element being provided with an elongated aperture communicating with the interior of said second section and said annular passageway, the center of curvature of said aperture being coincident to the swivel axis of said element, said elongated aperture having a portion thereof in rectilinear alignment with the interior of said first section upon relative movement of said element through a sector of at least 90°, and adjustable means mounted on said support and contacting said connecting element for locking the latter in a fixed position of swivel adjustment.

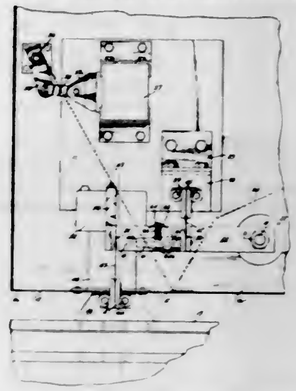
2,660,392
CAP AND HANGER FOR CLEANING IMPLEMENTS
Glenn G. Greene, Jr., Warren, Pa.
Application October 28, 1949, Serial No. 124,198
1 Claim. (Cl. 248—359)



A cap and hanger for application to a tubular handle, comprising a cap member having a cylindrical portion of a diameter to be pressed into and secured in an end of the handle and having another cylindrical portion of relatively greater diameter than that of said first-mentioned portion to overlie the edge of the end of the handle, said portion of greater diameter having a closed top and an annular recess surrounding it at the junction of its periphery with the periphery of said portion of greater diameter and having an annular inner wall, said annular recess and inner wall being contained within the diameter of said portion of greater diameter, and said top having a hinge portion which is cut therefrom and extends outwardly beyond said annular recess and inner wall, and a resilient hanging ring pivotally connected to the cap member by said hinge portion for swinging movement into the annular recess and having an inherent diameter less than that of said annular inner wall to frictionally retain the ring in folded relation with the cap member, or for swinging movement out of said recess and into extended relation with the cap member.

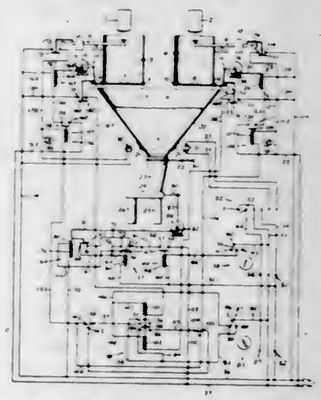
2,660,393
FIBER FEEDING AND WEIGHING MECHANISM
Bernard E. O'Connor and Robert E. King, Buffalo, N. Y., assignors to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application May 6, 1949, Serial No. 91,772
5 Claims. (Cl. 249—4)

4. In fiber preparation machinery comprising a plurality of machines to be operated in line, each machine having a discharge opening controlled by a motor operated valve, a weigh box disposed subjacent to said opening, motor operated dumping doors for said weigh box, and a balance type weigh mechanism, the improvement comprising an electrical control system including individual machine automatic switch means responsive to movement of each of said weigh mechanisms, a selector switch in series therewith for each machine controlling a plurality of respective circuit means each including a contactor relay controlling a normally open valve motor contact, a normally open dumping door motor contact and a master motor contact; each master motor contact being in series with a master motor and a master contact controlled thereby, said master contact being in series with said dumping door



motor contact; whereby sequential actuation of each of said automatic switch means will energize a corresponding contactor relay to close respective valves and actuation of all of said automatic switch means will open all of said dumping doors simultaneously.

2,660,394
MATERIAL LOADING DEVICE
Thomas J. Skeuse, Wilmington, Arthur C. Jennings, Edge Moor, and Warren E. Haught, Wilmington, Del., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application August 30, 1950, Serial No. 182,378
17 Claims. (Cl. 249—18)



1. Apparatus for introducing predetermined amounts of material into containers therefor comprising in combination means for measuring a predetermined amount of the material and to discharge it after measurement as a succession of separate charges, container supporting means to support a container in position to receive material flowing from said measuring means, transfer means to transfer such flow as desired from one container to another, a detector positioned at a selected location along the path of flow of material between said container supporting means and said measuring means, said detector being adapted to deliver energy upon passage thereby

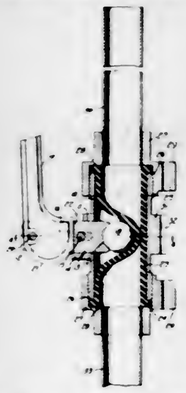
and through said path of a charge of said material, and operating means responsive to energy so produced interconnecting said measuring means and said detector to effect release of a measured charge from said measuring means, whereby successive, separate, measured charges of material are released into the path between said measuring means and said container in response to passage past a selected location within said path of a previously released measured charge.

2,660,395

COMPRESSIBLE TUBE VALVE

Jesse K. Mair and Christopher J. McNally, Allentown, Pa., assignors to Cement Gun Company, Inc., Allentown, Pa., a corporation of New Jersey

Application November 21, 1949, Serial No. 128,563
2 Claims. (Cl. 251—5)



1. A valve comprising a cylindrical compressible liner insert, a rigid sleeve enclosing said liner insert, an opening in said sleeve, opposed lugs extending from said sleeve on opposite sides of said opening, guides disposed adjacent said opening between said lugs, a follower slidably supported between said lugs and guided therebetween for straight line movement normal to the axis of said insert, the inner end of said follower being concave, a ball disposed between the inner end of said follower and said liner insert for movement with the follower, the curvature of the inner end of said follower corresponding substantially to that of said ball whereby said ball may freely rotate relative to the concave end of said follower, the diameter of said ball being slightly less than the internal diameter of said liner insert, and a lever pivotally mounted between said lugs, said lever comprising a cam surface adapted to engage the outer end of said follower and depress said follower and ball to compress said liner insert and close the passage therethrough, the cam surface being so formed as to effect a quick opening of said valve approaching snap action.

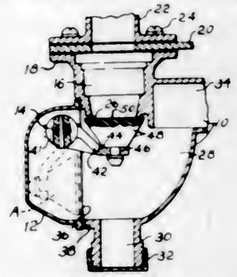
2,660,396

PIVOTED SELF-ALIGNING VALVE

Donald D. Heagerty, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware

Application December 23, 1948, Serial No. 66,883
1 Claim. (Cl. 251—10)

A valve comprising an inlet and outlet connections and an intermediate valve chamber, said inlet leading to said chamber and terminating in a valve seat, a rock shaft traversing said chamber having an arm thereon, a valve member formed of resilient plastic material having a conical valve-engaging portion with a seat-engaging surface at its large end and a shoulder at its small end, the diameter of which is of the order of half the diameter of the seat, said conical portion having an axial length of the order of the radius of said seat and having an integral resilient stem extending from the small end of the conical portion, said stem having an integral collar thereon, said arm having an aperture therein through which said stem extends with the shoulder and collar on opposite sides, said collar and shoulder being spaced axially by an amount substantially the length of the arm aperture, said stem being of approximately the same diameter as said aperture and said collar being of a diameter and resiliency whereby said collar may be drawn by temporary elongation and diametral shrinking through said aperture, said stem and arm being the sole means for supporting said valve member, said aperture and arm being so located as to hold said member resiliently in substantial alignment with said seat when the seat-engaging surface is about to be positioned thereon.

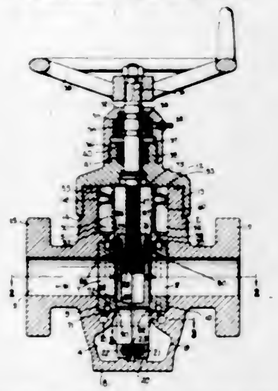


2,660,397

QUICK SEALING AUTOMATIC SEALING GATE VALVE

Alexander S. Volpin, Miami Beach, Fla.

Application August 27, 1951, Serial No. 243,882
4 Claims. (Cl. 251—62)



1. A lubricated gate valve, comprising, a body having a flow way therethrough, a gate reciprocable in the body across said flow way, an annular seat in said flow way having an annular sealing face slidably engageable by a side face of the gate, a continuous annular lubricant groove in said sealing face surrounding said flow way, said groove being disposed intermediate the inner and outer margins of the sealing face to form separate inner and outer concentric gate-

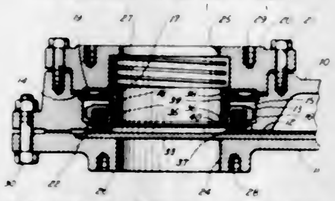
sealing areas, a pressure-leak channel extending across said inner sealing area providing communication between said groove and said flow way, a lubricant reservoir in said body exposed to fluid pressure therein, and means responsive to the fluid pressure in said body to convey lubricant from said reservoir to said groove.

2,660,398

VALVE SEALING ELEMENT

Nicholas Bashark, Dayton, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio

Application December 29, 1949, Serial No. 135,809
4 Claims. (Cl. 251—167)



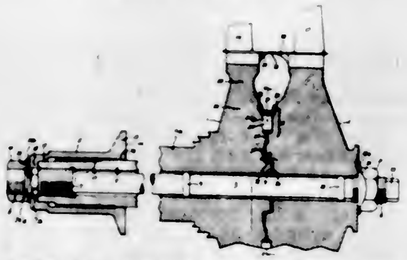
1. A valve sealing element comprising a ring-shaped sealing member, having a bore therethrough, said bore tapering from a larger diameter at one end of the ring to a smaller diameter at a point intermediate the ends of the ring and having an enlarged portion extending from said smaller diameter to the other end of the member, a flexible diaphragm having a tubular part inserted in the tapered part of said bore and overlapping said enlarged part, a hollow sleeve within said tubular part and clamping said tubular part against said tapered bore, said sleeve having an enlargement opposite the enlarged part of said bore for locking the sleeve and tubular part within the bore of said sealing member.

2,660,399

COMPOSITE MULTISTAGE TURBOMACHINE ROTOR

Ernest L. Robinson and Cecil M. Gardiner, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application July 11, 1951, Serial No. 236,246
3 Claims. (Cl. 253—39)



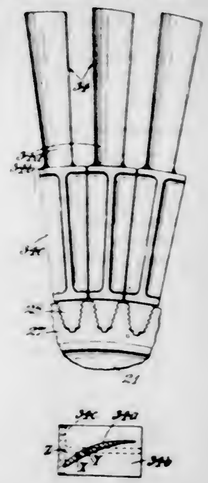
1. A high temperature turbomachine rotor having two separately fabricated bucket-wheels, the abutting hub portions of the wheels defining an interfitting cylindrical rabbet for holding the wheels coaxial, the outer portion of each wheel around the rabbet forming a radially disposed annular surface with an annular groove extending axially thereinto, said annular surfaces adapted to be in abutting relation when the wheels are secured together, the outer wheel portions also defining a plurality of equally spaced radial recesses in said annular surfaces, each recess being formed part in one wheel and part in the abutting portion of the other wheel, a radially disposed key member in each recess, a retainer ring member disposed between the wheels and surrounding and adapted to be engaged by the outer ends of said key members with the circumferential edges of the ring engaging in the respective annular grooves in the wheels, and a through-bolt having one end secured to one wheel and the other end projecting through an axial bore in the other wheel with clamping means engaging an end surface of said other wheel to secure the wheels tightly together with said annular surfaces abutting and the hub rabbet and radial keys maintaining concentricity and transmitting torque between said wheels.

2,660,400

BLADE FOR TURBINES OR COMPRESSORS

Alan Arnold Griffith, Derby, England, assignor to Rolls-Royce Limited, Derby, England, a British company

Application November 14, 1949, Serial No. 126,949
Claims priority, application Great Britain November 25, 1948
11 Claims. (Cl. 253—77)



1. A blading element for an axial flow compressor or turbine comprising a blade portion, a supporting stem from which said blade portion extends and which has its flexural axis in torsion lying on the opposite side of a plane at right-angles to the axis of the compressor or turbine and containing the aerodynamic axis of the blade portion to that on which the flexural axis of the blade portion lies, and a root attachment at the end of said supporting stem remote from said blade portion.

2,660,401

TURBINE BUCKET

Thomas N. Hull, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application August 7, 1951, Serial No. 240,707
3 Claims. (Cl. 253—77)

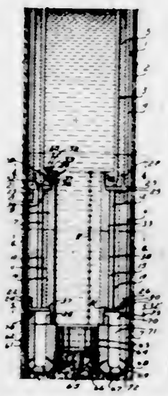
1. An integral turbomachine blade having the effective length thereof subdivided into root, intermediate, and tip portions, the root portion comprising substantially one-third of the blade length and having a substantially constant cres-

cent-shaped section substantially that of an impulse type blade, the tip portion comprising substantially the outer third of the blade length and having a substantially constant airfoil-shaped section substantially that of a reaction type blade, the intermediate blade portion rapidly



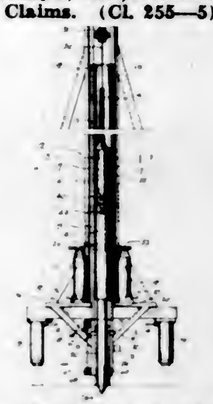
transitioning smoothly and continuously from the impulse-shaped root to the reaction-shaped tip, the cross-section area of the root portion being on the order of three times the cross-section area of the tip portion whereby the high moment of inertia of the root section resists vibration of the blade.

2,660,402
CORE DRILLING APPARATUS
Verbol J. Devine and Lawrence V. Devine, Kansas City, Mo.
Application December 19, 1949, Serial No. 133,822
3 Claims. (Cl. 255—4)



1. A core drilling apparatus including a core bit having an axial passage for a core and provided with water courses, an inner string of drill pipe through which the core is adapted to be removed, a core barrel forming a downward continuation of the inner drill pipe and having a driving connection with the core bit, an outer pipe coaxial with the inner drill pipe and spaced therefrom to provide a downward flow passage therebetween for pressure fluid, a sleeve-like stator encircling the core barrel and having fixed connection with one of said pipes, said stator having circumferentially spaced elongated pressure chambers on the inner side thereof with the pressure chambers having inlet connections with the down flow passage and exhaust connections with the water courses of the core bit, and vanes on the core barrel and arranged to move in and out of the pressure chambers responsive to flow of pressure fluid for turning the core barrel to rotate said bit.

2,660,403
POSTHOLE FORMING MACHINE
Frank E. Roland, Midway, Wash., assignor of one-half to W. E. Williams, Auburn, Wash.
Application May 2, 1950, Serial No. 159,401
10 Claims. (Cl. 255—5)



1. A machine of the character described comprising a mobile supporting vehicle, a vertical guide tube rigidly supported thereby, a hole forming bit contained in said tube to be guided thereby as advanced from the lower end of the tube to form a hole in the earth, a hammer member reciprocally contained in the tube above and independent of the bit, means for lifting and dropping the hammer against the bit to drive it into the earth; said guide tube having a longitudinal slot therein, a lug on the upper end portion of the bit extended outwardly through said slot, and a lifting means for the bit comprising a horizontal cross bar engageable between its ends with the underside of said lug, and a pair of jacks mounted by the vehicle at opposite sides of the guide tube and engageable with the ends of the cross bar to lift it upwardly and against the lug to extract the bit from the earth after being driven thereinto.

2,660,404
CONTROL FOR PNEUMATIC CABLE-TOOL DRILLS
Johann Hans Meier, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Application April 10, 1948, Serial No. 20,277
10 Claims. (Cl. 255—10)

1. In a pneumatic cable-tool drill, the combination of: a bit; pneumatic spudding means having a cylinder-piston assembly supporting said bit to raise and drop said bit; a piston and a pressure chamber in said cylinder-piston assembly, said chamber having an intake port and an exhaust port; a valve to open and close said intake port; control means to control the intake valve; a reciprocating element constrained to move with the piston during spudding; driving means actuable by said reciprocating element to alter the setting of the control means; said control means including a member shiftable to open and close said intake valve and a driving connection between said driving means and said shiftable member, said connection operating to set the shiftable member in valve-closing position when the piston reaches a predetermined overtravel position of said piston beyond the position of normal reversal from bit-lowering to bit-raising travel of said piston.

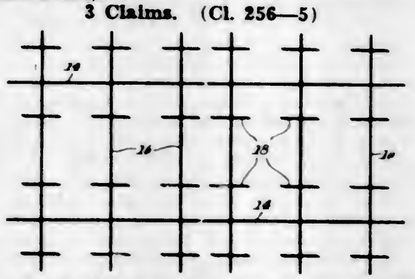


2,660,405
CUTTING TOOL AND METHOD OF MAKING
Floyd L. Scott, Allen E. Wisler, and Henry B. Woods, Houston, Tex., assignors to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application July 11, 1947, Serial No. 760,414
6 Claims. (Cl. 255—347)



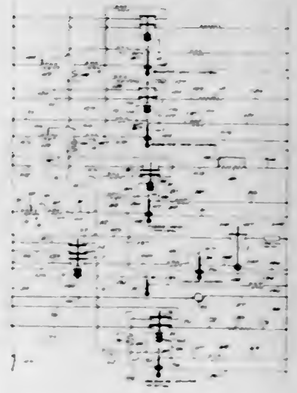
1. The method of improving the wear resistant qualities of a cutting element comprising the steps of, providing gashes across opposite faces of the cutter element proximate the cutting edge thereof to form an upstanding fin, depositing a bead of wear resistant material upon the crest of the fin formed between the gashes, and thereafter depositing a hard facing material within the space formed by the walls of the gashes and the bead.

2,660,406
BARBED WIRE STRUCTURE
Alan E. Brickman, Worcester, Mass., assignor to United States Steel Corporation, a corporation of New Jersey
Original applications June 3, 1943, Serial No. 489,514, and May 26, 1945, Serial No. 595,945. Divided and this application June 5, 1950, Serial No. 166,197
3 Claims. (Cl. 256—5)



1. A welded wire fabric having one substantially flat side comprising a plurality of cross wires welded on top of a plurality of longitudinal wires to form a unitary mat, some of said longitudinal wires being cut on a bias and bent outwardly from the plane of the fabric to form barbs, all of said barbs extending outwardly in one direction from the fabric on the side opposite the longitudinal wires.

2,660,407
CONTROL SYSTEM FOR CONTROLLING THE TEMPERATURES OF INDIVIDUAL ENCLOSURES
Timothy J. Lehane, North Riverside, Ill., assignor to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware
Application December 1, 1949, Serial No. 132,025
10 Claims. (Cl. 257—3)

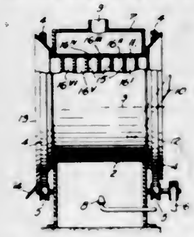


1. In combination with apparatus for influencing the temperatures within a plurality of enclosed spaces collectively, means including a thermostat responsive to a predetermined temperature for controlling the effectiveness of said apparatus, means for adjusting the functional setting of said thermostat, individual temperature altering apparatus associated with each of said enclosed spaces, means including a plurality of individual thermostats responsive to the temperatures of the separate enclosures for controlling the operation of said individual temperature altering apparatus, manually operable means for separately varying the functional settings of said individual thermostats, and means separately associated with each of the several manually operable means and operable both individually and collectively to adjust within a prescribed limit and in proportion to the adjustments of the individual thermostats, the temperature setting of the thermostat for controlling the first mentioned temperature altering apparatus.

2,660,408
HEAT EXCHANGER FOR CONTINUOUS TREATMENT OF FLUENT MATERIAL
John E. Laschinger, Bramley, Johannesburg, Union of South Africa
Original application March 27, 1945, Serial No. 585,113, now Patent No. 2,551,748, dated May 8, 1951. Divided and this application April 6, 1951, Serial No. 219,667
Claims priority, application Union of South Africa September 29, 1944
7 Claims. (Cl. 257—88)

1. A heat exchanger suitable for continuously treating material that is fluent in bulk, consist-

ing of a rotatable drum the wall of which is impermeable to solids, means to adjust the temperature of the wall to a temperature different from that of the surrounding atmosphere, a series of transverse partitions dividing the drum into a series of axially consecutive separate compartments, means to feed material into the first of the series of compartments and means to receive batches of material discharged from the last of the series or compartments, means defining a single scoop within each compartment, the scoop being adapted to lift material in the compartment



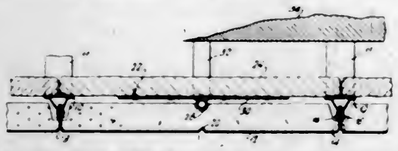
during the upward movement of the scoop, and means defining a transfer hole in each partition opening out of the concavity of the scoop which is towards the feed end of the drum, each scoop being arranged for the material it is lifting to cascade gravitationally through the hole opening out from its concavity when the scoop has completed at least a portion of its upward movement, and each scoop being so circumferentially displaced from the scoop in the last preceding compartment as to have started its upward movement before cascading of material into its compartment commences.

2,660,409

RADIANT HEAT EXCHANGE AND ACOUSTICAL STRUCTURE FOR BUILDINGS

Howard R. Pittenger, Jr., Somerville, and Jack D. Verschoor, Martinsville, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application July 10, 1950, Serial No. 172,898
3 Claims. (Cl. 257—124)



1. A combined radiant heating or cooling and acoustic system for a space comprising a building structure, a perforated sound-pervious and heat-radiating metallic facing, means supporting said facing in spaced relationship with said structure, radiators spaced between said facing and said structure and spaced from said means, said radiators each including a plate in heat conducting relationship with a fluid conduit, and sound-absorbing heat-insulating material positioned between said radiators and said structure and acoustically exposed to said facing.

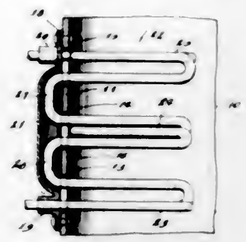
2,660,410

HEAT EXCHANGER

Maurice H. Hofmeister, Evanston, Ill., assignor to Bell & Gossett Company, Morton Grove, Ill., a corporation of Illinois

Application November 29, 1949, Serial No. 130,000
4 Claims. (Cl. 257—230)

1. In a heat exchanger, the combination of a shell having a plurality of spaced openings in a wall thereof, a continuous pipe coil comprising a plurality of spaced loops each extending freely through an associated opening into the shell, and a plate secured to the wall in covering relation to the openings and offset to define with the included part of the wall a pocket communicating



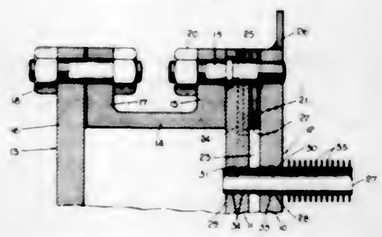
through the openings with the interior of the shell, the coil including pipe portions positioned in the pocket and serially flow connecting the loops and the inlet and outlet ends of the coil extending through selected openings, respectively, and tightly through the plate.

2,660,411

LEAKAGE CONTROL TUBE MOUNTING FOR DOUBLE TUBE PLATE HEAT EXCHANGERS

Nicholas Weber, Teaneck, N. J., assignor to Condenser Service & Engineering Co. Inc., Hoboken, N. J., a corporation of New Jersey

Application October 22, 1949, Serial No. 122,987
1 Claim. (Cl. 257—236)



In apparatus of the class described, employing a pair of spaced tube sheets with a chamber therebetween, one tube sheet comprising the inner sheet of the apparatus and the other the outer sheet, said tube sheets having alined bores, the bore of the outer tube sheet being of smaller diameter than the corresponding bore of the inner tube sheet, a circulating tube mounted in said tube sheets, said tube having a circumferentially continuous heavy solid wall arranged in the bore of the inner tube sheet and terminating in said chamber, an integrally reduced end portion on said tube, said end portion comprising a circumferentially continuous thin weakened wall structure arranged in the bore of the outer tube sheet and being partially disposed in said chamber, said tube having a substantially uniform diameter bore extending continuously through the small diameter weakened wall portion, the bores of said tube sheets having annular grooves, and both the heavy and thin walls of said tube having expanded parts arranged on outer surfaces only thereof and extending into said grooves in sealing the tube in the bores of both of said tube sheets and with respect to said chamber.

2,660,412

HEAT EXCHANGE PANEL AND ITS METHOD OF MANUFACTURE

Ray A. Sandberg, Waukegan, Ill., assignor to Houdaille-Hershey Corporation, North Chicago, Ill., a corporation of Michigan

Application March 17, 1949, Serial No. 81,970
4 Claims. (Cl. 257—256)



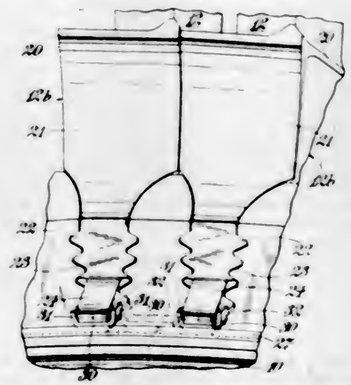
1. The method of making a heat exchanger which comprises forming a plurality of spaced, parallel grooves in a metal plate, placing lengths of a tube in said groove, deforming portions of said plate adjacent said grooves into surface contact with said tube to maintain the same in position within said grooves, positioning a planar reinforcing member to overlap opposite ends of said plate, piercing overlapping portions of said plate and said reinforcing member between each pair of adjacent grooves, and deforming said plate and said reinforcing member from the plane thereof to secure the same in assembled relation to correct distortion of the plate caused by deformation of the same into contact with said tube.

2,660,413

LOCKING ARRANGEMENT FOR BLADING OF AXIAL-FLOW TURBINES AND COMPRESSORS

Lionel Haworth and James Alexander Petrie, Littleover, England, assignors to Rolls-Royce Limited, Derby, England, a British company

Application January 29, 1951, Serial No. 208,282
Claims priority, application Great Britain February 3, 1950
5 Claims. (Cl. 253—77)



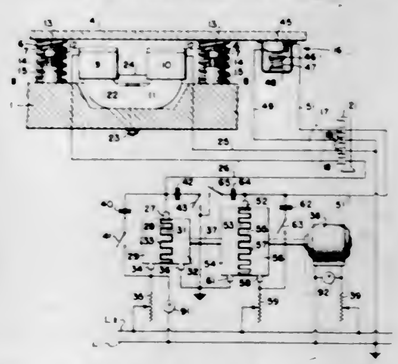
1. An axial-flow turbine or compressor assembly comprising a rotor disc with a plurality of slots extending across the disc periphery from one face of the disc to the other face of the disc; a plurality of blade elements, each blade element having a root attachment portion engaged in a corresponding one of said slots; radially-outwardly-facing shoulders on the circumferential faces of said root attachment portions; radially-inwardly-facing shoulders on the circumferential walls of said slots in co-operating abutment with said outwardly-facing shoulders to retain said root attachment portions against radially outward displacement from the slots; and means to restrain disengagement of the root attachment portions of the blade elements from the slots in the disc by sliding lengthwise of the slots, which means comprises axial projections on said root attachment portions, said axial projections being formed with recesses having axially-facing abutment walls, an axial extension on said disc which axial extension has a co-operating recess with axially-facing abutment walls, the recesses in said axial projections being positioned in the projections to be aligned with the co-operating recess in said axial extension when said root attachment portions are properly positioned in said slots, and a plurality of locking members, said axial projections on the blade elements being radially outside said axial extension on the disc, the recesses in said axial projections facing radially inwardly, and having said co-operating recess in said axial extension facing radially outwardly and co-operating with the recesses in said axial projections to form circumferentially-extending tunnels each to receive one of said locking members, whereby each locking member is loaded in shear through the axially-facing abutment walls by forces tending to cause lengthwise sliding of the associated root attachment portion in the corresponding slot in either direction.

2,660,414

ELECTROMAGNETIC VIBRATOR APPARATUS FOR TREATING MOLTEN METAL

Davidlee Von Ludwig, Brooklyn, N. Y., assignor, by mesne assignments, to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania

Application December 16, 1949, Serial No. 133,368
9 Claims. (Cl. 259—72)



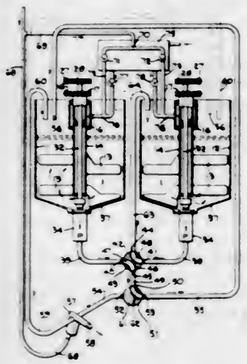
1. In apparatus for treating metal, the combination of a carriage, a platform including magnetizable means, to mount said platform on said carriage for vertical movement thereon, resilient means to maintain said platform a predetermined position above said carriage, means mounted on said carriage to vibrate said platform vertically relative thereto, separate means on said platform to vibrate said platform, and mechanism to operate said vibrating means at different frequencies and amplitudes, said carriage being provided with wheels for movement along a track, said vibrating means being electromagnetically operated, means extending along the track to carry electric power, and a trolley on said carriage engaging said last named means through which power can be transmitted to said vibrating means regardless of the position of said carriage on said track.

2,660,415

PROCESS AND APPARATUS FOR COATING SURFACES WITH LIQUID COMPOSITIONS CONTAINING SOLID MATTER IN SUSPENSION

Albert Henry Hawes, Erdington, Birmingham, England, assignor to Kwikform Limited, Birmingham, England, a British company

Application April 15, 1952, Serial No. 282,354
Claims priority, application Great Britain April 27, 1951
9 Claims. (Cl. 259—161)



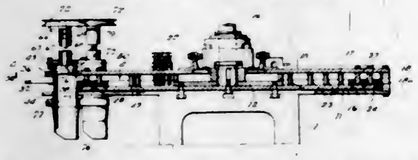
1. A process for coating surfaces with liquid compositions containing solid matter in suspension, said process comprising the steps of mixing together successive batches of the composition to be coated, circulating each batch in turn around a closed circuit constituting a feeding circuit, discharging directly from said feeding circuit on to the surface to be coated a proportion only of said circulating batch while continuing to circulate the remainder of said batch around said feeding circuit, and simultaneously with the circulation of one batch around said feeding circuit and the discharge of a proportion of said batch therefrom, mixing the next successive batch and circulating the same continuously around a further circuit constituting a mixing circuit, so as to maintain the solid constituents of such batch mixture in suspension in the liquid vehicle until the same is required to be supplied to said feeding circuit on the utilisation of the batch, or a predetermined proportion thereof, which has previously been mixed.

2,660,416

SELF-CLEANING GATE FOR MIXING MACHINES

Thomas P. Camp, Arlington Heights, Ill., John I. Thorsen, Philadelphia, Pa., and Joseph A. Besal, Chicago, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

Application December 14, 1948, Serial No. 65,242
25 Claims. (Cl. 259—178)



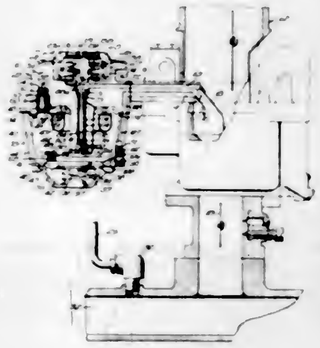
16. Discharge control means for a rotary mixing device having a disc mounted for rotation about a substantially vertical axis and a peripheral wall about said disc having a discharge port therein, comprising a control gate for fitting in said port pivoted at one end about a substantially vertical pivot and adjustable to any position between fully open and completely closed positions, and a spout adjacent the outer side of said disc at the free end of said gate having an opening arranged to receive material discharged from said port when the gate is open, the side of said opening adjacent said disc having a replaceable wear-resistant portion with a blunt surface in the path of the discharged material, said blunt surface being positioned adjacent the path of the outer free end of said gate for being cleaned by the free end of said gate when it is moved to closed position.

2,660,417

CARBURETOR SUPPLEMENTARY FUEL FEED DEVICE WITH AUXILIARY FUEL PUMP

David E. Anderson, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application May 27, 1949, Serial No. 95,829
2 Claims. (Cl. 261—34)



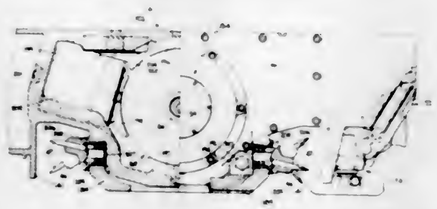
1. A device for feeding fluid to the fuel intake of a combustion engine comprising a housing defining a float chamber and having upper and lower substantially central bosses, aligned top and bottom bores extending through said bosses, a restricted orifice in said bottom bore, said top bore providing a discharge chamber at the upper end of said bottom bore, said housing having a discharge passageway in communication at one end with the fuel intake of the engine and the other end in communication with said discharge chamber, said housing having a first diaphragm-covered vacuum chamber subjected to engine manifold vacuum, a block connected to said first diaphragm and slidable in said top bore, said block having an end seatable against the top of said bottom bore to close the bore and an extension coacting with said orifice for metering flow to said end, spring means tending to move said block for increasing the area of said orifice, said spring means being disposed in said vacuum chamber and effective during initial movement of said diaphragm to provide a spring rate for increasing flow of fluid to the discharge passage, a second vacuum chamber subjected to engine manifold vacuum through said first vacuum chamber, a diaphragm disposed in said second chamber, a spring in said second chamber resisting the movement of said diaphragm as the vacuum increases in said second chamber, a compartment in said housing above said second chamber in flow communication with said float chamber and with the intake of said engine, one-way flow valve means between said float chamber and said compartment for filling of said compartment during flexing movement of said diaphragm against the action of said spring in response to an increase of vacuum and for preventing discharge from said compartment to said float chamber, and additional valve means for accommodation of discharge of fluid from said compartment to the engine intake when a decrease in manifold pressure accommodates flexing of the diaphragm under the influence of the compressed spring.

2,660,418

LOW HEIGHT SHORTWALL MINING MACHINE

Arthur L. Lee, Upper Arlington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company, a corporation of Ohio

Application April 6, 1945, Serial No. 586,979
3 Claims. (Cl. 262—30)



1. A mining machine motor structure including a magnetic field frame, an armature mounted in said frame for rotation on a normally substantially horizontal axis, a pair of main field poles on opposite sides of said motor having pole shoes adjacent said armature and having outwardly and upwardly inclined axes relative to the axis of said armature, top and bottom main pole shoes connected to said frame and located adjacent said armature and being located between said first named pole shoes, and cutter chain guide means on opposite sides of the bottom pole shoe the tops of which guides are in a plane above the bottom of the face of said bottom pole shoe, said guide means also being inwardly of normally vertical planes along the outer sides of said magnetic field frame.

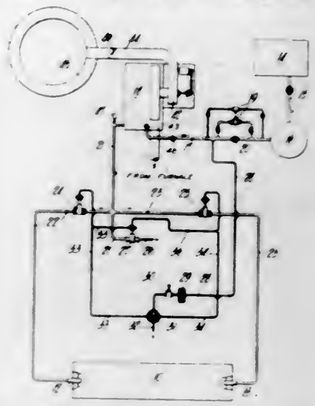
2,660,419

APPARATUS FOR INTRODUCING AIR TO BURNERS OF REVERSING TYPE FURNACES

James L. Hartney, Chicago, Ill., assignor to United States Steel Corporation, a corporation of New Jersey

Application March 9, 1950, Serial No. 148,619
7 Claims. (Cl. 263—15)

1. In a reversible furnace having a pair of selectively operable burners for firing the furnace, an apparatus for supplying pre-heated compressed air to said burners comprising a source of compressed air, a heating device for pre-heating the air, lines for directing air from said heating device selectively to either of said burners, valves in said lines for controlling flow of air therethrough, a by-pass from said heating device discharging into the atmosphere, a valve in said by-pass, and a valve operating mechanism connected to the valves in said lines and the valve in said by-pass automatically opening the valve in said by-pass unless the valve in one of said lines is open, thereby automatically maintaining flow of air through said heating device during



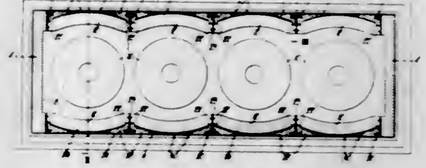
changeovers in firing the furnace from one of said burners to the other.

2,660,420

ANNEALING BASE CONSTRUCTION

James E. Robinson, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey

Application January 9, 1952, Serial No. 265,587
3 Claims. (Cl. 263—46)



1. Sidewall structure for an annealing furnace base comprising a metal supporting plate, a plurality of spaced brickwork arches disposed in longitudinal alignment on said supporting plate, vertical metal reinforcing members disposed between said arches, a metal back-up plate disposed parallel with and spaced slightly from the rearward side of said line of arches, and insulating means contained in the space between said arches and said back-up plate.

2,660,421

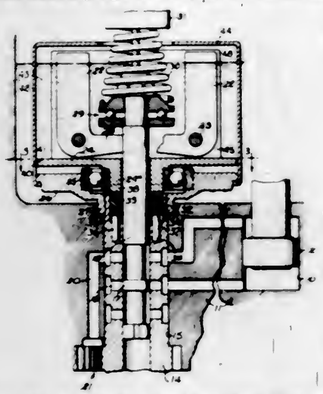
SPEED GOVERNOR

George E. Sorensen, Fairfield, Conn., assignor to Woodward Governor Company, Rockford, Ill., a corporation of Illinois

Application May 13, 1949, Serial No. 93,055
8 Claims. (Cl. 264—2)

2. A governor comprising a rotary drive member, a container rotatable therewith and adapted to contain a fluid, a rotary speed responsive device disposed within said container to be immersed in said fluid, a coupling of resilient material providing an angularly yieldable drive connection between said device and said drive member so as to permit of angular displacement of said device relative to said container and said member in response to sudden changes in the speed of said drive member, and opposed concentric surfaces respectively rotatable with said con-

tainer and said device and disposed within said fluid and closely spaced so as to impose a viscous



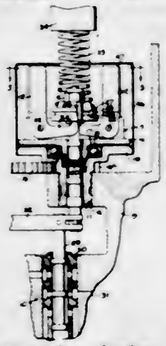
drag on said device for damping the oscillations thereof.

2,660,422

VIBRATION DAMPING MEANS FOR GOVERNOR

George E. Parker, Rockford, Ill., assignor to Woodward Governor Company, Rockford, Ill., a corporation of Illinois

Application July 20, 1950, Serial No. 174,860
9 Claims. (Cl. 264—2)



5. A speed responsive device having, in combination, a rotary ball head, angularly spaced flyweights mounted thereon for radial displacement in response to changes in the ball head speed, a driving member rotatable about the ball head axis and adapted to contain a body of liquid immersing the ball head, two dashpots angularly spaced from each other and from said flyweights and lying alongside the flyweights for rotation with the latter in a common plane, each of said dashpots being immersed in said liquid body and having a restriction through which the liquid is displaced in response to relative angular movement between said ball head and said drive member, and an angularly yieldable coupling connecting said head and drive member.

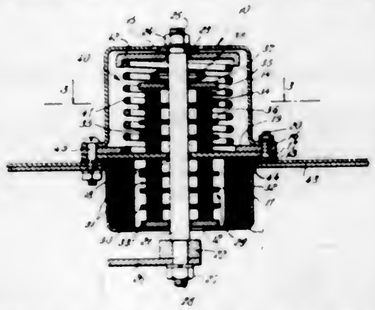
2,660,423

VIBRATION AND SHOCK ISOLATOR

Nereus H. Roy, Glenbrook, Conn., assignor to Waugh Equipment Company, New York, N. Y., a corporation of Maine

Application December 18, 1951, Serial No. 262,306
12 Claims. (Cl. 267—1)

1. A mount for isolating vibration and absorbing shock between an object and a support, which comprises stop means, means for securing the stop means rigidly to the support, a member extending through the stop means and movable lengthwise and laterally, means for securing the member rigidly to the object, abutments spaced along the member, vibration-isolating means cooperating with the stop means and engaged with one of the abutments to resist lengthwise movement of the member in one direction, shock-absorbing means engaging the stop means at opposite sides thereof and acting through spaced



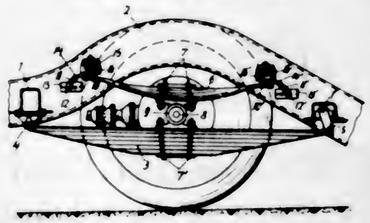
abutments on the member to resist lengthwise movements of the member in both directions after an initial travel of the member, said shock-absorbing means being movable laterally with the member, and shock-absorbing means enclosing and normally spaced from the part of the first shock-absorbing means at one side of the stop means and acting through said part of the first shock-absorbing means to resist lateral movement of the member after an initial travel of the member.

2,660,424

SPRINGING MECHANISM, ESPECIALLY FOR MOTOR VEHICLES

Friedrich K. H. Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany

Application January 5, 1950, Serial No. 136,865
3 Claims. (Cl. 267—30)



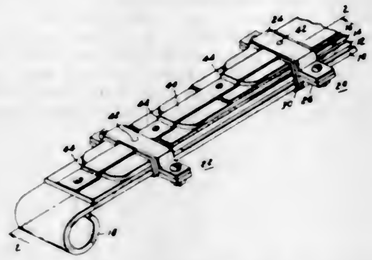
1. A spring suspension device for motor vehicle axles comprising in combination a vehicle axle, a main spring suspending a part of the vehicle on the vehicle axle, an auxiliary leaf spring having ends, means connecting the auxiliary leaf spring intermediate the ends thereof to the vehicle axle, leaving the ends free to oscillate in one direction within the limits of the resiliency of the auxiliary spring, resilient bearings positioned on the suspended part to limit oscillation of the ends of the auxiliary spring in the other direction when the main spring is substantially loaded, and intervening levers mounted on the suspended part of the vehicle beyond the ends of the auxiliary leaf spring and having arms interposed between the ends of the auxiliary spring and the resilient bearings and on which the ends of the auxiliary spring bear.

2,660,425

INSERT ASSEMBLY FOR LEAF SPRINGS

Charles G. Davis, Detroit, Mich., assignor to Detroit Gasket & Manufacturing Company, Detroit, Mich., a corporation of Michigan

Application August 2, 1951, Serial No. 239,977
7 Claims. (Cl. 267—49)



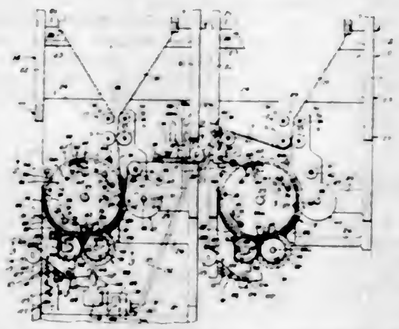
1. A spring insert assembly for a multiple leaf spring comprising a plurality of vertically superimposed leaves wherein an upper leaf superimposes a longer lower leaf, said assembly comprising, in combination, a clamp adapted to be engaged about said spring, a flexible insert support secured at one end to said clamp and adapted to overhang the spring upon which the clamp is mounted, and a spring insert secured at one end to said support and adapted to have its opposite end received between superimposed leaves of said spring.

2,660,426

AUTOMATIC SAFETY READJUSTMENT MECHANISM FOR NEWSPAPER PRESS FOLD ROLLERS

Leslie J. Griner, Detroit, Mich.

Application February 4, 1952, Serial No. 269,764
12 Claims. (Cl. 270—76)



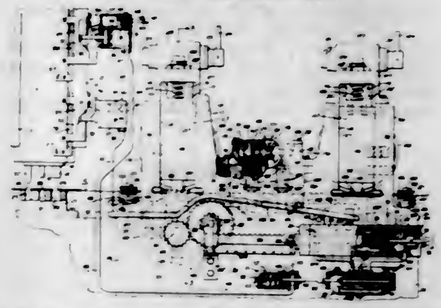
1. An automatic safety readjustment device for a newspaper printing press having paired second fold rollers and an adjacently-disposed folding-and-tucking cylinder and blade cooperating therewith uniting two separate multi-strip continuously running paper webs proceeding to a junction at said cylinder along two separate web paths, said device comprising a shiftable support mounted on said press and carrying one of said fold rollers, mechanism operatively connected to said support for shifting said support and the fold roller carried thereby toward the other fold roller of the pair to narrow the gap therebetween, and a web breakage detector disposed adjacent one of said webs on one of said separate paths and operatively connected to said mechanism, said web breakage detector being responsive to the breakage of said web for energizing said mechanism to shift said support and the fold roller carried thereby toward said other fold roller and reduce the space between said rollers in consequence of the reduction in number and thickness of the webs being fed through said rollers resulting from the breaking of said one web whereby to instantly regrip the reduced-thickness remaining web tightly between said rolls and prevent jamming thereof.

2,660,427

FEEDING DEVICE FOR SHEET MATERIAL

John Haller, Detroit, Mich.

Application June 26, 1948, Serial No. 35,438
7 Claims. (Cl. 271—2.4)



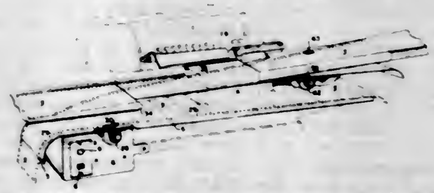
7. A sheet stock feeding apparatus for sheet metal working machines comprising a frame, a pair of feeding rolls rotatably mounted on said frame, a fluid pressure piston and cylinder mounted on said frame, a rack connected to said piston, motion-converting mechanism drivingly connecting said rack to one of said rolls, one of said rolls being adjustably movable toward and away from the other roll, a pressure fluid control valve having an inlet adapted to be connected to a source of pressure fluid and an outlet connected to said cylinder, a servo-motor operably connected to said valve to shift said valve, a reciprocatory fluid pressure motor connected to said adjustably movable roll, and fluid pressure pumping mechanism hydraulically connected to said motor and servo-motor and drivingly connected to a moving part of said machine, said pumping mechanism being responsive to the motion of said machine part in one direction to generate and transmit pressure fluid to said servo-motor to shift said valve, and responsive to the motion of said machine part in the opposite direction to generate and transmit pressure fluid to said motor to shift said motor-connected roll.

2,660,428

STRIP FEEDING APPARATUS

John T. Davidson and John H. Kroemer, Dayton, Ohio, assignors to The Standard Register Company, Dayton, Ohio, a corporation of Ohio

Application May 22, 1947, Serial No. 749,640
9 Claims. (Cl. 271—2.4)



1. Strip feeding apparatus whereby a plurality of superposed record strips are differentially ad-

vanced past a recording position while progressively overturning one of the strips simultaneously with their advancement, including separate feeding mechanisms for different strips of the plurality, common actuating means therefor, guide means relative to which one of the superposed record strips is turned with one margin thereof in divergently overlapping relation with the opposite margin of the same strip, one of said strip feeding mechanisms being operative to simultaneously advance the opposite divergent margins of said one strip in longitudinal paths at equal rates of speed.

2,660,429

APPARATUS FOR AUTOMATICALLY CENTERING MOVING OBJECTS

Edwin T. Lorig, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey

Application June 4, 1951, Serial No. 229,723
9 Claims. (Cl. 271—2.6)



1. Apparatus for automatically centering a moving object comprising a rotatable shaft, a pair of axially opposed rolls mounted on said shaft substantially coaxial therewith, each of said rolls including a tube surrounding said shaft, the internal diameter of said tube being substantially greater than the outside diameter of said shaft, the outer end of said tube being fastened to said shaft coaxially therewith and its inner end being unsupported and the tube being free to deflect under load in a direction transverse to its axis about its shaft attached end as a pivot, a plurality of spaced apart webs surrounding said tube for rotation therewith, a rim portion carried by said webs substantially coaxial with said shaft, the first of said webs being adjacent the outer end of said rim portion and the second of said webs being between the first web and the inner end of the rim portions.

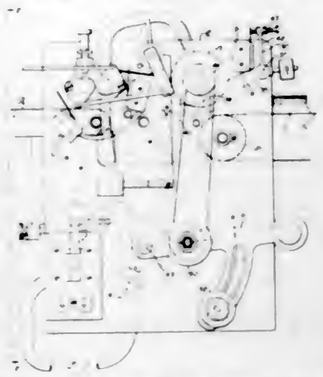
2,660,430

PACK FEED CONTROL MECHANISM

Thomas A. Ribich, Cleveland, Ohio, assignor, by mesne assignments, to Weldon Tool Company

Application September 12, 1950, Serial No. 184,450
2 Claims. (Cl. 271—12)

1. In a machine for removing sheets of paper one at a time from the top of a stack of papers, the provision of, a first paper carrying conveyor and a second paper carrying conveyor placed in end to end relationship, paper separating means between said conveyors, ratchet drive wheel means driving said first conveyor in stepped movement, a rocker arm and pawl drive means for said ratchet drive wheel, continuous drive means for said second conveyor, a control arm mounted for movement in a vertical reciprocating path toward and away from the paper carrying surface of said first conveyor, said control arm limited in the travel toward said first conveyor by contact with paper carried thereon, said rocker arm swingable in an oscillatory path between first and second limits of travel, said pawl means engageable in driving relationship with said ratchet drive wheel means in a first direction of movement of said rocker arm in said oscillatory path toward said first limit of travel, means urging said rocker arm in a second direction of movement in said oscillatory path toward said second limit of travel, prime mover drive means operating both said rocker arm and control arm in synchronized relationship wherein the control arm is moved toward the conveyor surface and the rocker arm is moved toward said first limit at the same time, and wherein both elements travel in the reverse direction at the same time, catch means engageable with said pawl means in a position to lock said pawl means near said first limit of travel against return by said urging means, said position being a distance from said first limit to allow said drive means to oscillate said rocker arm a



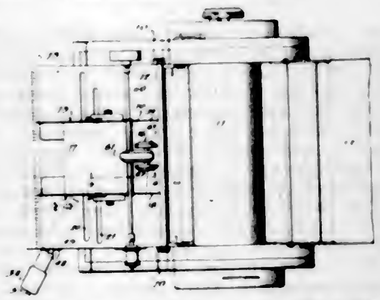
slight amount and lift said rocker arm off said catch as the control arm approaches said conveyor surface, a solenoid attached to said catch to withdraw the catch and release said pawl means, an electrical switch for said solenoid, said control arm having a switch contact arm movable therewith, said contact arm actuating said switch upon approach of said control arm to a predetermined distance above said conveyor surface, and means to adjust said predetermined distance at which actuation of the switch takes place, whereby said catch is relieved of mechanical drag caused by the pawl means when the switch is activated to operate the solenoid and withdraw the catch.

2,660,431

SHIFTABLE SHEET FEEDING DEVICE FOR DUPLICATING MACHINES

Carl A. Levin, Park Ridge, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

Application January 16, 1950, Serial No. 138,841
12 Claims. (Cl. 271—36)



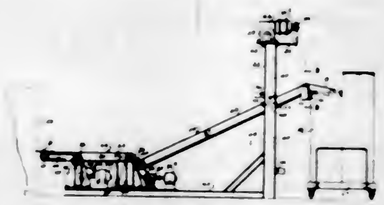
1. In a duplicating machine or the like having a feed table, a transversely arranged drive shaft disposed above said table, and sheet feeding means including a feed tray mounted on said table for displacement in a transverse direction, the combination of means for shifting said sheet feeding means in a step by step manner comprising a pin associated with said feed tray and projecting downwardly through said table, an elongate displaceable actuating member disposed transversely of said table and beneath the same at a point adjacent the path followed by said pin, means for displacing said actuating member in a diagonal direction into engagement with said pin, and means for mounting said pin on said feed tray to permit movement of said pin with respect to said feed tray in a direction substantially perpendicular to said transverse direction so as to permit displacement of said pin in said diagonal direction, and to cause displacement of said feed tray in a transverse direction, said sheet feeding means also including sheet advancing mechanism embodying a roller adapted to engage the top sheet of a stack of sheets disposed in a feed tray, and a member connecting said feed tray and said sheet advancing mechanism so that the latter may be shifted with the former, said sheet advancing mechanism being slidably mounted on said shaft so that it may be shifted with said sheet feed tray.

2,660,432

APPARATUS FOR CONVEYING AND STACKING BOX BLANKS

Julius E. Wilske, Francis A. McCormick, and Verney G. Politsch, Alton, Ill., assignors to Owens-Illinois Glass Company, a corporation of Ohio

Application September 4, 1948, Serial No. 47,774
7 Claims. (Cl. 271—68)



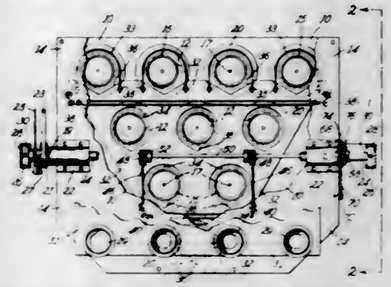
1. Apparatus for receiving, conveying, elevating, and stacking blanks, said apparatus comprising a receiving conveyor including horizontally disposed endless travelling belts, an elevating conveyor comprising endless travelling conveyor belts, said elevating conveyor having its receiving end adjacent to the discharge end of the receiving conveyor, the discharge end of the elevating conveyor being mounted for up and down movement, a motor geared to the receiving conveyor, a second motor geared to the elevating conveyor, a hoisting motor, operating connections between the hoisting motor and the elevating conveyor for moving the discharge end of the elevating conveyor upwardly as blanks are delivered therefrom and for lowering the conveyor when a stack of the blanks has been built up, and automatic control devices controlling the operation of said motors, said control devices including means for periodically reversing the hoisting motor and thereby lifting and lowering the elevating conveyor, means for stopping said second motor and the elevating conveyor belts during the lowering of the elevating conveyor, and means for reducing the speed of the first mentioned motor and running the receiving conveyor at a reduced speed during the lowering of the elevating conveyor.

2,660,433

CENTERING APPARATUS FOR BOWLING PIN HOLDERS

James J. McGinley, Williston Park, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey

Application September 30, 1947, Serial No. 777,000
10 Claims. (Cl. 273—42)



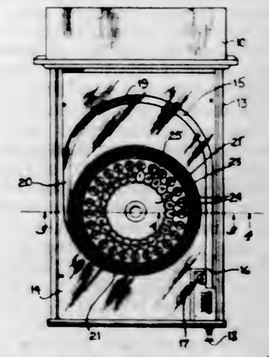
1. In a bowling pin handling apparatus of the type employing a turning table for setting and resetting bowling pins on a bowling alley, apparatus for turning said table 180° when spotting a new set of bowling pins on a bowling alley, freely slidable camming devices having pin grippers positioned over openings formed in said turning table, a plurality of interconnected confining members surrounding said camming devices for limiting the extent of sliding movement of each device, mechanism for adjusting said members to further limit the extent of free sliding movement of said devices in one direction under the action of gravity when the table is turning so as to center said devices with respect to the openings formed in said turning table, and mechanism for returning said confining members to normal position when said table travels vertically to allow said devices to move freely in all directions when engaging with standing bowling pins.

2,660,434

POCKETED BALL GAME APPARATUS

Lyndon A. Durant, Chicago, Ill., assignor to General Patent Corporation, Chicago, Ill., a corporation of Illinois

Application July 16, 1951, Serial No. 236,954
4 Claims. (Cl. 273—121)



1. An amusement game apparatus comprising an inclined playboard having an opening and a ball channel formed therein, a stationary bowl in said opening beneath the plane of said play-

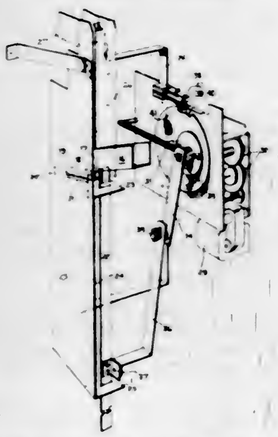
board and having concave side walls and a substantially flat bottom wall, said channel having open communication with said bowl at its point of junction with said side walls and through which said balls from said playboard pass, a plurality of ball receiving openings formed in the periphery of said bottom wall, a circular plate supported by said bowl beneath and in spaced parallel relation to said bottom wall, said plate providing in its peripheral edge a plurality of opening normally out of registration with the openings formed in said bottom wall, means for supporting said plate for rotation beneath said bottom wall, said last named means comprising brackets carried by said bowl adjacent the peripheral edge of said bottom wall, said brackets providing a channel through which said plate may be rotatably moved, and means for rotating said plate to position the openings thereof in registration with the ball receiving openings of said bottom wall.

2,660,435

BALL DELIVERY DEVICE FOR BALL GAME APPARATUS

Lyndon A. Durant, Chicago, Ill., assignor to General Patent Corporation, Chicago, Ill., a corporation of Illinois

Application July 16, 1951, Serial No. 236,956
2 Claims. (Cl. 273—121)



1. The combination with a game board having a ball channel formed therein and a delivery opening for delivering a ball to the channel for projection through the latter, of means for delivering a ball to said channel through said delivery opening, means for directing balls to said ball delivering means, means including an electric motor for actuating said ball delivering means; a starting circuit for said motor, a power source in said circuit, a pair of ball-actuated switches connected in series in said circuit, one of said switches located in said channel and engageable with a ball projected therethrough, and the other of said switches located in the path of a ball delivered to said ball delivering means, a holding circuit for said motor, a switch in said holding circuit in series with said other ball-actuated switch and actuated by said motor for maintaining energization of said holding circuit during one cycle of rotation of said motor, and a coin-actuated switch in said starting circuit and connected in parallel with said one of said ball-actuated switches and in series with the said other of said ball-actuated switches.

2,660,436

INDICATING DISK FOR GOLF CLUB HEADS

Eugene F. Grossman, Santa Monica, Calif.

Application June 24, 1950, Serial No. 170,180
3 Claims. (Cl. 273—77)



1. A golf playing aid comprising a disc of colored material, a tacky adhesive on one face of said disc for attaching the disc to the striking face of a golf club, and a readily removable waxy layer on the face of said disc opposed to said one face whereby when a golf ball is struck by the disc in the course of swinging a golf club on which the disc is mounted a portion of said waxy layer will be removed thereby.

2,660,437

AUTOMATIC PHONOGRAPH

Slingsby D. Harman, Galesburg, Ill.

Application June 30, 1947, Serial No. 758,135
2 Claims. (Cl. 274—9)



2. In a phonograph having a tone arm shaft, tone arm assembly for cooperation with a sound record of the disc type, said assembly comprising an arm supported at one end on said shaft for horizontal movement over the playing surface of the record at a relatively constant elevation thereover, the shaft support of the arm at said one end thereof including a bracket fixed to the shaft and a pivotal connection between the bracket and said one end of the arm, said arm providing an open-bottom recess in its opposite end, a sound head assembly positioned in the arm recess and having a record-engaging needle near one end thereof, said sound head assembly including a sound head mounting bracket and weight members thereon, pivot means mounted in said arm for pivotally supporting said sound head mounting bracket with said weight members and sound head thereon, such that a predetermined major portion of the sound head assembly is on one side of the pivot means, thereby determining in accordance with the weight of such major portion of the sound head assembly, the record bearing pressure of the needle, adjustable weight means on the sound head mounting bracket by which the weight of said major portion of the sound head assembly may be altered, and adjustable means in engagement with said arm in a zone thereof between said pivotal connection and said pivot means, for adjustably determining the elevation of the arm assembly over the playing surface of the record.

2,660,438

PHONOGRAPH NEEDLE

Frederick C. Holtz, Jr., Wadsworth, Ill., assignor to Pfanstiehl Chemical Company, a corporation of Illinois

Application August 3, 1948, Serial No. 42,162
7 Claims. (Cl. 274—38)



1. A phonograph needle of the character described, comprising: an upper relatively rigid portion providing a shank; a flexible intermediate portion comprising a thin, flat section having a longitudinally extending ridge thereon, said section being in the form of an elongated loop having a portion extending away from said shank substantially at right angles thereto and a portion extending back towards said shank substantially at right angles thereto and said spring being flattened in a plane substantially transverse of the longitudinal axis of said shank; and a lower tip portion carried by said flexible portion, adjacent but normally spaced opposite surfaces of two of said portions being adapted to abut upon abnormal flexure of said flexible portion to prevent deformation of said flexible portion beyond its elastic limit.

2,660,439

MANURE SPREADER

Charles J. Scranton, La Porte, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application March 3, 1950, Serial No. 147,391
7 Claims. (Cl. 275—1)



5. Apparatus for loading, transporting and spreading manure by means of a tractor, said apparatus comprising: a vehicle having a manure confining body and hitch means at the forward end of the latter adapted for connection with said tractor; a floor conveyer mounted on said vehicle and operative to advance manure forwardly within said body toward a discharge aperture at said forward end of the latter; a spreader mechanism mounted on said vehicle in manure receiving relation to said conveyer and in manure discharging relation to said aperture; an elongated rigid elevator frame pivotally suspended from a top rear portion of said body for vertical swinging movement in rearward depending relation thereto; a spiked endless belt structure operatively trained around said elevator frame; means for transmitting driving power from a rotary power take-off element on said tractor to said floor conveyer, spreader mechanism and belt structure, said power transmitting means including a selectively engageable and disengageable clutch mechanism connected in drive transmitting relation with said belt structure; and an adjusting mechanism for said elevator frame operatively interposed between the latter and said body and including a load transmitting element adjustably connected with said body and coacting with said elevator frame for selectively lowering the latter to an operative position effecting positive engagement of the lower end of said spiked belt structure with a vehicle supporting compacted manure layer therebeneath; said spiked belt structure being operable when power is transmitted thereto in said operative position of said elevator frame to dig downwardly into said manure layer and convey dug manure upwardly thereover and into said body at said top rear portion of the latter.

2,660,440

COMPENSATING HYDRAULIC JAW

Herman C. Kurtz, Medina, Ohio

Application September 26, 1950, Serial No. 186,849
7 Claims. (Cl. 279—4)



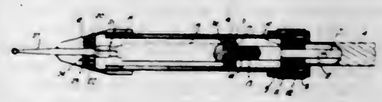
1. For a work holder having a body, a plurality of movable jaw carriages on the body, and means for moving said carriages toward and away from a work-piece; a compensating system of hydraulic jaws to grip a work-piece comprising: a compensating hydraulic work-piece gripping jaw for each of said carriages, each jaw including a jaw base mounted on the carriage, an hydraulic cylinder block adjustably mounted on the jaw base for adjustment in the line of motion of the corresponding jaw carriage, a piston movable in the cylinder of the block, and a work-piece gripping member carried on said piston; and hydraulic connecting means commonly interconnecting the hydraulic cylinders.

2,660,441

COLLET CHUCK

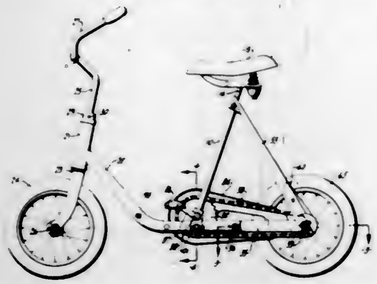
Magnus E. Toelcke, San Jose, Calif.

Application July 12, 1951, Serial No. 236,389
3 Claims. (Cl. 279—42)



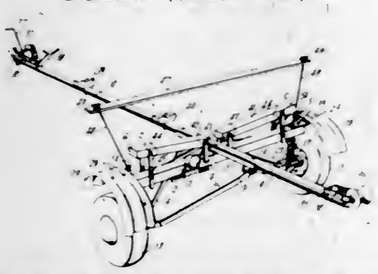
1. In a chuck, a shank member, a nose piece member threadedly mounted on the shank member, a shaft, a collet member mounted on an end of the shaft and having a plurality of collet jaws, bearings supporting the shaft for rotation in the shank member, and a bearing in the nose piece and engaged with the collet jaws and including a rotatable element directly engaged with the collet jaws and movable with the nose piece to close said jaws and to permit said jaws to open.

2,660,442
CONVERTIBLE VEHICLE
Wayne Wiesner and Frank Field, Palo Alto, Calif.
Application July 10, 1951, Serial No. 235,986
19 Claims. (Cl. 280—7.1)



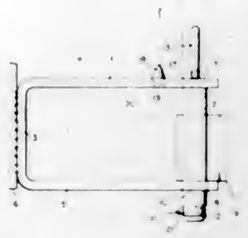
1. A convertible vehicle including a wheeled vehicle frame, a seat post removably connected at its lower end to the frame, a seat on the upper end of the post, a foot rest member connected to the frame for movement from an inclined position to a horizontal position and having means on its upper end for connection to the upper end of the post when in its inclined position for bracing the same and when said seat post is removed to the frame when in its horizontal position to provide a foot rest, said foot rest member presenting a relatively wide generally flat upper surface to support the foot of the rider when the foot rest member is in its horizontal position.

2,660,443
BOAT TRAILER
Willis H. Miller, Irving, Tex.
Application March 28, 1951, Serial No. 217,965
1 Claim. (Cl. 280—33.4)



In a boat trailer the combination comprising a tongue and a cross-member having an apertured ear affixed to each end thereof, two angular boat supporting members, a mounting for each of said members consisting of a pair of relatively parallel uprights affixed at their lower ends to said cross-member in juxtaposition to said tongue, a pair of upright straps having a longitudinal series of matched apertures adapted to selectively receive a bolt passed through said cross-member adjacent its outer end to adjust the height of said straps above said cross-member, means pivotally securing one of said angular boat supporting members between the upper ends of said affixed uprights at a point spaced outwardly from the inner end of said supporting member, means for pivotally attaching the opposite end of said angular boat supporting member between the upper ends of said straps, a rigid batten above and parallel with said cross-member adapted to engage the top of a boat disposed on said boat supporting members and means extending from each end of said batten and connected to said ears to hold said batten in firm engagement with said boat.

2,660,444
COUPLING PIN HITCH
William M. Cade and Bert E. Derry, Davenport, Iowa, assignors to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application March 12, 1951, Serial No. 215,046
1 Claim. (Cl. 280—33.15)

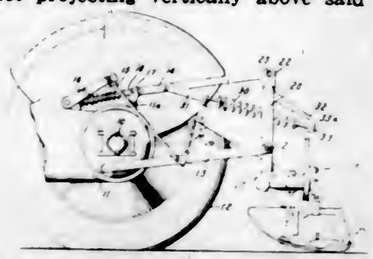


A hitch assembly comprising a clevis having upper and lower arms, each arm having an aperture therein, said apertures being in vertical alignment, the lower of said apertures having a radial slot opening thereinto, a hitch pin extending through said apertures, said hitch pin having a radial stop pin fixed thereto and adapted to pass through said slot, said stop pin having a flat upper face requiring accurate registration of the stop pin with the slot during raising of the hitch pin and upwardly diverging lower face portions to facilitate registration of the stop pin with the slot during lowering of the hitch pin, an upwardly tapered stop member on the upper side of said upper arm, and a handle attached to said hitch pin, said handle having a portion positioned above said stop member to permit lifting and rotation of said hitch pin and another portion resting on said upper arm, said latter portion being engageable with said stop member to prevent rotation of said hitch pin and registration of said stop pin with said slot, said stop member, stop pin, latter portion, and slot being so related that said stop pin can be passed through said slot only when said latter portion is in vertical alignment with said stop member.

2,660,445
FRAME CONSTRUCTION FOR IMPLEMENT DRAFT DEVICES
Vernon O. Hauswirth, Los Gatos, Calif., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware
Application June 29, 1949, Serial No. 102,058
1 Claim. (Cl. 280—33.44)

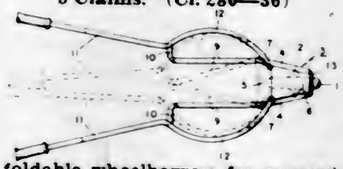
An implement carrying frame for use with a tractor having a pair of lower laterally spaced power liftable trailing hitch links and a trailing upper hitch link, said hitch links being pivotally connected thereto and having their free trailing ends triangularly disposed in a vertical plane, said frame comprising a unitary piece of tubing deformed into a rigid inverted U-shaped configuration having generally parallel dependent arm portions and an upper curved bight portion joining said arm portions, a single rod passing through and fixedly secured to each of said arm portions intermediate the vertical length thereof

to extend laterally therebetween to rigidify the frame and projecting laterally therebeyond to define pivot bearings for respective connection to the trailing ends of said lower two tractor hitch links, a pair of laterally spaced ears defining a bracket projecting vertically above said frame



bight portion and located generally centrally thereof to provide means for connection of the trailing end of the upper hitch link to said frame, and an implement-attaching bracket rigidly secured to each of the free lower extreme ends of said tubing arm portions.

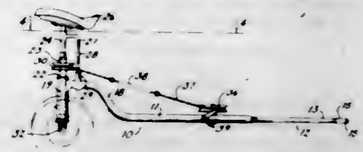
2,660,446
FOLDING WHEELBARROW
Gösta Ewald Edhardt, Malmo, Sweden
Application March 19, 1951, Serial No. 216,283
Claims priority, application Sweden March 23, 1950
3 Claims. (Cl. 280—36)



1. A foldable wheelbarrow for conveying loads in a removable basket or the like, comprising a wheel and wheel axle, a housing supported by said wheel axle and embracing said wheel from behind, a pair of shafts journaled in upright positions on opposite sides of the plane of said wheel and in rear thereof in said housing, a pair handle bars united with the upper ends of said shafts and extending backwards therefrom, a pair of bars united with the lower ends of said shafts and extending backwards therefrom for supporting the bottom of the basket or the like when this is placed in position between said handle bars just behind said housing, said supporting bars extending from the lower ends of said shafts being considerably shorter than said handle bars extending from the upper ends of said shafts, feet at the free rear ends of said supporting bars for supporting them from the ground, said handle bars having their fore-portions shaped for embracing the opposite sides of the basket when this is placed in position between said handle bars and with its bottom on said supporting bars, and said shaped fore-portions of said handle bars and said supporting bars being of approximately the same length.

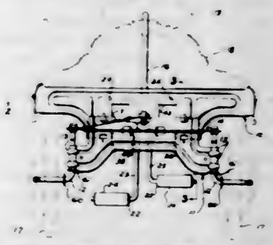
2,660,447
RIDING SULKY FOR POWER-OPERATED MOWING UNITS
Robert Bear, Wellington, Ohio
Application April 8, 1950, Serial No. 154,827
2 Claims. (Cl. 280—87.1)

1. For use in power operated mowing units having control levers mounted thereon, a riding sulky comprising a draw-bar member, said draw-bar member consisting of a rearwardly extending bar portion and a forwardly disposed yoke portion, a vertically upwardly extending saddle post, a saddle supported upon said post, a tubular vertically upwardly extending caster stem, said post being telescoped within said caster stem, said post being provided with means adapted to be secured to said bar portion, said caster stem being rotatably secured to the rearmost end of said



draw-bar portion, the lowermost end of said caster stem being integrally secured to a pair of axles which axles each support a cambered wheel, the yoke portion of the draw-bar member being adapted to be secured to the said power operated mowing unit, a first pulley mounted forwardly on the draw-bar portion, a second pulley mounted upon the said caster stem, an endless cable surrounding said pulleys, pedal means secured to the said first pulley, said pedal means controlling the direction of the cambered sulky wheels.

2,660,448
STEERING GEAR MOUNTING FOR JUVENILE VEHICLES
Alvin P. Douglas, Cleveland, and Leonard J. Walters, Shaker Heights, Ohio, assignors to The Murray Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 14, 1950, Serial No. 179,118
13 Claims. (Cl. 280—87.01)



13. For a juvenile wheeled vehicle having a pair of steering wheels and a sheet metal body, a steering gear and mounting therefor comprising: a first sub-assembly mounted to the vehicle body including an upper stamped sheet metal cross-plate adapted in form for attachment to and within the vehicle body and a pair of pull strap pedal arms with lateral pivot extensions, said cross-plate having rearward extensions stamped from the metal and formed about the said pivot extensions to pivotally mount the pedal arms; a steering shaft having on a lower end thereof a lever arm; a second sub-assembly mounted to the cross-plate including a pair of steering wheel mounting knuckles each having a vertical pivot portion provided with axially spaced radially projecting locating formations, a lower axle beam plate having the ends thereof curled about said pivot portions of the knuckles between the locating formations to form journals for the said knuckles, a tie rod forward of the axle beam plate connecting said knuckles, and a drag link for operative connec-

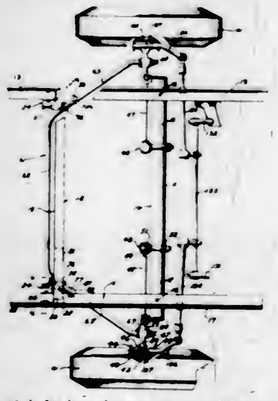
tion of the steering shaft lever arm with the tie rod; said plates having overlapping portions of complementary form adapting them to fit together in register for attachment to each other, including fastening bolt receiving apertures and stamped out lug formations spaced inwardly from the overlapped edge of each plate and adapted to receive thereunder the overlapping edge of the other plate, and the plates having oblique nesting bosses in the overlapping portions adapted to receive said steering shaft therethrough with the said lever arm forward of the plates.

2,660,449

WHEEL SUSPENSION FOR MOTOR VEHICLES

Earle S. MacPherson, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application January 27, 1949, Serial No. 73,044
6 Claims. (Cl. 280—96.2)



1. In a vehicle having a pair of laterally spaced wheel assemblies upon which a frame is spring supported, said frame having longitudinally side frame members interconnected by a cross frame member located in the zone of said wheel assemblies and a front cross frame member spaced longitudinally forwardly of said first mentioned cross frame member, a pair of suspension arms each universally mounted upon said first mentioned cross frame member at spaced points intermediate said side frame members and each extending transversely outwardly to a wheel assembly, a pair of downwardly depending brackets each located at the junction between said front cross frame member and one of said frame members and rigidly secured thereto, a swinging arm pivotally mounted upon the lower portion of each of said downwardly depending brackets, and a stabilizer bar having a transversely extending straight central portion axially aligned with the axes of the pivotal connections between said swinging arms and said brackets, said stabilizer bar having side thrust arms integrally formed with said central portion and extending diagonally rearwardly therefrom, means clamping said thrust arms to said swinging arms, means connecting the rearward ends of said thrust arms to said suspension arms at points immediately adjacent the points of connection of said suspension arms to said wheel assemblies, and suspension means connected between said frame and said wheel assemblies to support said frame and guide said wheels in a generally vertical direction, said suspension means being connected to said wheel assemblies above the points of connection of said suspension arms to said wheel assemblies and being connected to said frame at a point above the connection to said wheel assemblies.

2,660,450

BEAM SUSPENSION FOR VEHICLES

Tom Stigum, Portland, and Grattan D. Keerins, West Linn, Oreg., assignors to Pointer-Willamette Company, Inc., Portland, Oreg., a corporation of Oregon

Application March 29, 1949, Serial No. 84,188
5 Claims. (Cl. 280—104.5)



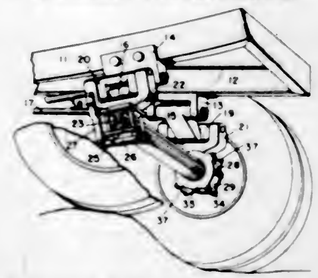
1. In a vehicle suspension, a pair of walking beams, one on each side of the vehicle, means for supporting the vehicle on said beams, resilient bushings in said beams, a transverse shaft mounted in said bushings to interconnect said beams, radius arms pivotally connected to the vehicle and connected with said shaft, rollers on said arms, and a guide box for each of said arms having vertical walls on opposite sides of said rollers to guide said arms in vertical movement.

2,660,451

MEANS FOR REDUCING TORSIONAL STRAIN ON VEHICLE AXLES

Ancel S. Page, Portland, Oreg.

Application February 12, 1952, Serial No. 271,095
5 Claims. (Cl. 280—104.5)



1. In a vehicle suspension, a pair of longitudinally-extending frame members located respectively at opposite sides of the vehicle and normally parallel to each other, a vehicle axle, a pair of hinge assemblies connecting said axle with said members respectively, the hinge shafts in said assemblies being parallel to the frame members respectively with which said hinge assemblies are connected, an axle bracket in each hinge assembly, one of said brackets having means rigidly securing the end portion of said axle to the bracket, an upper section of a cylindrical bushing housing rigidly attached to the other bracket, the axis of said bushing housing section located in a plane normal to the plane of the hinge of said bracket, a lower corresponding complementary portion for said upper bushing housing section, adjustable clamping means securing said lower portion to said upper section respectively, a bushing of resilient compressible material in said bushing housing, the other end portion of said axle extending through said bushing, said clamping means enabling said

bushing to be compressed radially, a pair of annular plates positioned at opposite ends of said bushing housing respectively and engaging the respective ends of said bushing, and tie bolts connecting said pair of annular members to enable said bushing to be compressed longitudinally, whereby said axle by being rigidly held against rotation in one of said brackets, while capable of slight rotation in the other of said brackets, will be protected from torsional twist when said frame members are temporarily moved out of parallelism.

2,660,452

IMPLEMENT CARRIER FRAME

Robert C. Johnson, Jr., Lubbock, Tex.

Application January 8, 1952, Serial No. 265,391
6 Claims. (Cl. 280—150)



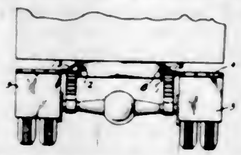
1. A carrier frame of the character described, including, in combination, a pair of clamps adapted to be clamped in spaced relation on a tractor or other vehicle, a girder arm extending horizontally from each clamp and pivoted at an end to the clamp on a vertical pivot whereby said arms may be adjusted toward and from each other, machine supporting means extending between and carried on both said arms, and securing means engageable with said means and said arms and adapted to fasten said supporting means to said arms at various different places along the length of said arms in accordance with various different adjusted positions of said arms relatively to each other.

2,660,453

NONBENDABLE YIELDING SUPPORT FOR VEHICLE SPLASH-GUARDS

John Russell, Joseph L. Edmund, and Samuel A. Felker, Portland, Oreg.

Application February 16, 1952, Serial No. 271,896
2 Claims. (Cl. 280—154.5)



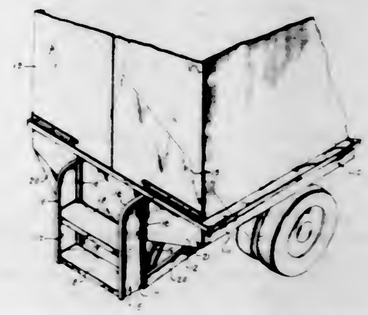
1. A splash-guard for a wheel or wheels of a vehicle including a chassis, the combination of a rod threaded at its inner end, a coil spring threadedly engaged with said threaded end of the rod, an externally threaded stud secured to said chassis and extending outwardly therefrom in a horizontal plane for threaded engagement with the opposite end of said spring to provide a resilient attachment of said rod to said chassis, an angularly disposed arm secured at one of its ends to said rod and threaded at its opposite end, an externally threaded stud secured to said chassis in angular relation thereto and in alignment with said arm, a coil spring threadedly engaged at one of its ends with said threaded end of said arm and at its opposite end with said threaded angularly disposed stud for cooperating with said first mentioned spring for maintaining said rod in a horizontal position.

2,660,454

COMBINED REAR TRAILER BUMPER AND STEP

Berton J. Coumerilh, St. Louis, Mo.

Application February 28, 1952, Serial No. 273,989
3 Claims. (Cl. 280—163)



2. A combined bumper and step for securement to the rear end wall of the chassis of a trailer or the like, comprising a pair of spaced parallel upright I-beams having a front flange, a rear flange and a connecting web, vertically spaced step plates disposed between said flanges and welded to the web and flanges of each I-beam, the front flange of each I-beam being disposed flat against the rear end wall of the chassis and welded thereto, a front brace extended diagonally between the lower end of each I-beam and respective stringers of the chassis and welded to abutting portions, a side brace member welded to the lower end of each I-beam extended diagonally outward and upwardly to occupy a position beneath respective rear corner posts of the body of the trailer, the upper ends of said side braces being welded to said chassis.

2,660,455

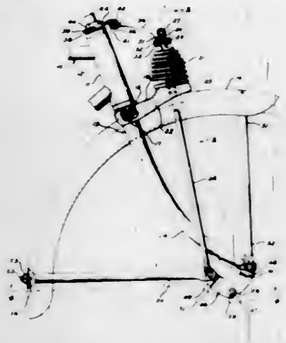
GUIDED SUSPENSION MEANS FOR BICYCLE STEERING WHEELS

Alvin P. Douglas, Cleveland, and Leonard J. Walters, Shaker Heights, Ohio, assignors to The Murray Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application March 9, 1951, Serial No. 214,775
2 Claims. (Cl. 280—277)

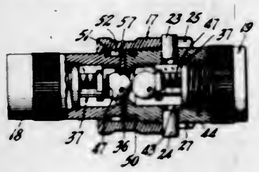
1. For a bicycle and the like having a forked member between the prongs of which a wheel is disposed and having a fork stem member journaled in the steering post of the bicycle, a spring suspension structure for the wheel comprising a platform-like base member rigidly attached to said forked member and extending therefrom above the wheel, tension spring means having a lower end secured to said base member, an inverted U-shaped strut member having its legs

straddling the wheel, a strut clamp secured to the yoke portion of said U-shaped strut member and also secured to the upper end of said spring means, a strut guide member of generally U-shape interposed between said strut member and said forked member to restrain the strut member from lateral deflection, said guide member having a yoke portion pivotally attached to the forked member and legs having laterally bent ends



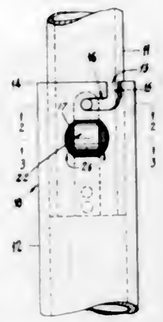
adapted for insertion in pivot sockets provided on said strut clamp, means carried on the said fork stem above the steering post for pivotally supporting the yoke portion of said guide member, and a pair of link members each pivotally interconnecting the end of one fork prong and the end of a corresponding leg of said strut member, said link members being substantially parallel and having the wheel mounted therebetween.

2,660,456
AUTOMATIC QUICK DISCONNECT COUPLING
Alvin A. Meddock, Van Nuys, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 28, 1948, Serial No. 67,625
1 Claim. (Cl. 284—18)



A device of the type described comprising: a pair of fittings having front ends and having longitudinal fluid passages therethrough; means detachably connecting said fittings with their front ends abutted together; each fitting having a valve seat in its passage adjacent the front end thereof; a poppet valve movably mounted in the passage in each fitting and seating on said valve seats when said fittings are separated; said valves having mutually cooperating portions in abutting engagement and holding at least one valve in unseated position, at least one of said portions projecting through said seat and beyond the front end of said fitting when said valves are seated and said fittings are separated; valve movement resisting means in each fitting, each resisting means comprising a valve-contacting portion and a spring portion urging said valve-contacting portion toward said valve; and limit means in said passage limiting movement of said valve-contacting portion toward said valve, said limit means being so spaced from said valve seat that when said valve is in said seated position said valve-contacting portion is spaced from said valve a distance equal to half the sum of the distances said two valves project beyond the front ends of their fittings.

2,660,457
TELESCOPIC HANDLE
Adelaide H. Mallon, New York, N. Y.
Application April 14, 1950, Serial No. 155,836
4 Claims. (Cl. 285—175)



1. A telescopic junction for tubular sections made of two hollow tubes of unequal diameters and slidable relative to one another so as to be telescoped in entirety one within the other, comprising a tube having an end portion formed with a bayonet slot open at an edge of the tube and having a rectangular locking slot through said tube, the other tube having an end portion formed with a rectangular guiding slot and a pivotally mounted resilient locking means fixed thereto at one end, said locking means having a stud pin fixed thereto at its free end, said resilient locking means having a radially extending locking portion adapted to pass through said guiding slot and to enter said locking slot when said stud pin is at the inner end of said bayonet slot, said locking means being in close fitting airtight relation in said locking slot while leaving the opening through said tubes substantially unrestricted, thereby adapting said telescopic junction as an efficient conveyance of a fluid, said arcuate locking means being movable inwardly insufficiently to clear said outer tube thereby providing unobstructed peripheral contacting surfaces between said tubes whereby free relative sliding motion is permitted for the entire length of said tubes.

2,660,458
SHAFT OR ROD PACKING
Lawrence B. Collins, Orange, and Clinton A. Langstaff, Compton, Calif.
Application February 15, 1949, Serial No. 76,612
1 Claim. (Cl. 286—16)

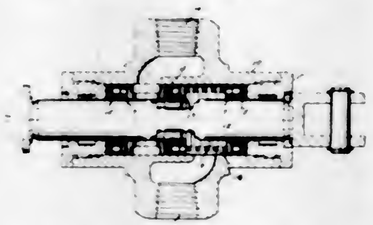
In a packing unit for a well pump rod, including a well casing, a pair of spaced annular metal members, each having a peripheral groove and an annular groove in its inner face, a compressible sealing ring seated in each of the said peripheral grooves, a cylindrical annular body of a resilient material interposed between said members, annular portions at each end of said body engaged in said annular grooves, radially disposed, inwardly tapered, metal elements inserted in spaced staggered relation about and through said body, and a perforated metal shell encircling said body with its ends abutted against the inner faces of said members, said shell having

an exterior circumference equal to that of said members, said metal elements having their outer ends contacting the inner surface of said shell



and their inner ends the surface of the pump rod, when the unit is engaged on the pump rod and inserted inwardly of an end of the well casing.

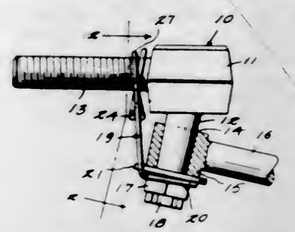
2,660,459
PACKING MEMBER
John E. Collins, Akron, Ohio
Application December 9, 1948, Serial No. 64,311
1 Claim. (Cl. 286—28)



In a sealing structure of the type described, in combination, a packing ring having an annular slot parallel to the axis thereof so as to provide in transverse section a U-shaped packing defined by a rear wall and a pair of forwardly extending lips, the inner opposed surfaces of the lips lying in flat parallel planes when the packing ring is in unconfined condition, a plurality of ribs circumferentially spaced around the slot and transversely bridging the space between the slot walls, the outer surfaces of the lips being arcuate and outwardly convex in the same condition, the outer tips of the lips being beveled inwardly toward each other, a spreader ring having a beveled surface complementary with and in peripheral contact with the beveled surface of each lip, and resilient biasing means engaging at least one of said rings for forcing said beveled lip tips to diverge.

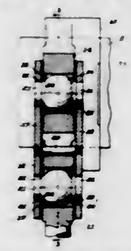
2,660,460
TIE ROD LOCK
Alexander Stoddard, Auburn, Maine, assignor to John G. Marshall, Auburn, Maine
Application January 24, 1951, Serial No. 207,535
1 Claim. (Cl. 287—90)

In combination, a steering knuckle formed of a ball socket with a stud extending therefrom and a ball in the socket, a tie rod stud extending from the ball, a tie rod, a safety attachment holding the tie rod against disengagement from the tie rod stud, said attachment comprising a resilient U-shaped saddle engaged about the tie rod stud and beneath the tie rod, a pair of angularly disposed projecting resilient arms extending from



the ends of said saddle, arcuate members extending toward each other from the ends of said arms carried by said arms engaged about said first named stud, and outwardly projecting locking members carried by the ends of said arcuate members each disposed on an opposite side of one of said arms to interlock said arms and said members about said stud extending from said socket.

2,660,461
SWIVEL JOINT
Joseph F. Corby, Philadelphia, Pa., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania
Application March 10, 1947, Serial No. 733,699
1 Claim. (Cl. 287—93)



A link connection for an adjustable blade operating arm and a reciprocating actuating arm of a rotary hydraulic machine comprising, parallel link members, a ball socket adapted to be supported in one of the arms at one end of the links, a ball in said socket and having two shouldered stud shafts formed integrally with and extending axially from the ball in opposite directions and passing loosely through the wall of said socket, aligned holes in adjacent ends of said parallel members to receive the oppositely extending integral stud shafts whose end portions outside of said shoulders are free from any axial holding action, the distance between the shoulders on said stud shafts being greater than the width of the operating arm whereby the parallel link members are set against said shoulders in substantially spaced relation to the sides of said arm, and a similar socket and a ball with similar shouldered stud shafts disposed at the other end of said link members for connection to the other arm, said latter stud shafts also having end portions which are outside of said shoulders and which are free from exerting any axial holding action, and said lateral bolts being disposed above the latter ball and socket whereby the lateral bolts commonly hold the links onto

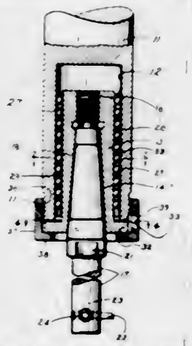
the free ends of the studs against the shoulders thereof so that the balls have the same freedom to swivel in their sockets regardless of the degree of the force with which the lateral bolts hold the link members to the balls.

2,660,462
LOAD BEARING PIVOTED MEMBER FOR FURNITURE MECHANISM
Martin Fox, Chicago, Ill., assignor to The Seng Company, a corporation of Illinois
Application May 13, 1950, Serial No. 161,839
2 Claims. (Cl. 287—101)



1. In a furniture mechanism: a load bearing arm provided with a non-circular aperture; a nylon bushing having a non-circular hollow stem filling said aperture and a flange overlying a face of the arm to provide a bearing surface; a member having a portion overlying said flange; and a pivot pin secured to said member and extending through said hollow stem, said pivot pin being rotatable in said bushing and having a flanged head to secure said member and said arm rotatably together.

2,660,463
ADJUSTABLE COUPLING
Ottis R. Briney, Jr., Pontiac, Mich., assignor of one-half to James W. Briney
Application October 28, 1948, Serial No. 56,968
2 Claims. (Cl. 287—119)



1. An adjustable coupling comprising two rotatively adjustable members, cylindrical bearing races on the members, a ball bearing without clearance comprising the said races and a plurality of bearing balls therebetween, cage means for said balls maintaining them spaced circumferentially and axially of the races, whereby the races are maintained in axial alignment, thrust bearing surfaces on the members, and means for clamping the thrust bearing surfaces into engagement, the thrust bearing surfaces being serrated.

2,660,464
ROLLER CATCH
Leonard Rosenblum, Hillside, N. J., assignor to Star Metal Products Co., Brooklyn, N. Y., a partnership
Application April 8, 1952, Serial No. 281,081
6 Claims. (Cl. 292—75)

1. A roller catch which comprises a housing having a top, parallel side walls, and a rear end wall, the front end and inner side of the housing being open and the side walls having aligned longitudinal slots, a slide of channel section within the housing and having integral lugs extending outwardly from its side walls and entering the slots, one end of the slide projecting through the open front end of the housing and the bottom of the slide lying inwardly from the plane of the inner side of the housing, a pin mounted in openings in the side walls of the slide, a roller



freely rotatable on the pin and projecting beyond the outer end of the slide, and a spring engaging the rear end wall of the housing and the slide and urging the slide out of the housing, the slots and lugs being positioned inwardly from the slide from the point of mounting of said pin therein and the lugs being elongated in the direction of the sliding movement of the slide and forming a guiding support for the slide during such movement.

2,660,465
CABINET CATCH
Fred Gerson, Elmhurst, N. Y., assignor to Akron Hardware Mfg. Corp., Woodside, N. Y., a corporation of New York
Application April 18, 1952, Serial No. 283,040
5 Claims. (Cl. 292—75)



5. In a door catch, a frame having spaced side walls providing a space therebetween, an L-shaped guideway in each of said side walls adapted to receive the ends of a roller shaft, a roller shaft equipped with a roller within said guideways, and spring means resiliently urging said shaft forwardly in the base of said L-shaped guideways, the base of each guideway extending forwardly and the stem of each guideway extending to the bottom edge of the side wall for the insertion and removal of said shaft from the frame.

2,660,466
DOORKNOB AND TUBULAR SPINDLE ASSEMBLY
Robert C. Cerf, Jr., Los Angeles, Calif., assignor to Hollymade Hardware Manufacturing Company, Los Angeles, Calif., a corporation of California
Application August 8, 1952, Serial No. 303,238
5 Claims. (Cl. 292—352)



1. A door knob and tubular spindle assembly comprising a knob having a neck adapted to slidably fit over a tubular spindle, said neck being provided with a neck keeper opening; a tubular spindle having a keeper opening disposed to coincide with said neck keeper opening; a keeper protruding through said spindle keeper opening, said keeper being attached to and pressed outwardly by an open ring spring disposed peripherally inside said spindle, and means to limit the closing movement of the ends of said open ring spring.

2,660,467
CORN PICKER
John Lenth, Rochester, Minn.
Application March 17, 1950, Serial No. 150,166
1 Claim. (Cl. 294—50.9)



A device of the character described comprising an elongated shaft, a fixed jaw at the lower end of the shaft, a movable jaw pivotally connected to the lower end of the shaft in cooperative relation to said fixed jaw, an operating handle pivotally mounted upon said shaft adjacent the upper end thereof, a rod interconnecting the handle and said movable jaw, said rod extending through said movable jaw in the form of a loop, an eye formed integrally with the free end of said loop and encircling the body of said rod, an eye mounted in said shaft in spaced relation to and above said first-mentioned eye and encompassing said rod, and a spring for urging said movable jaw away from said fixed jaw, said spring surrounding said rod and bearing at each of its ends against one of said eyes, and said operating handle being movable in a plane perpendicular to the plane of movement of said movable jaw.

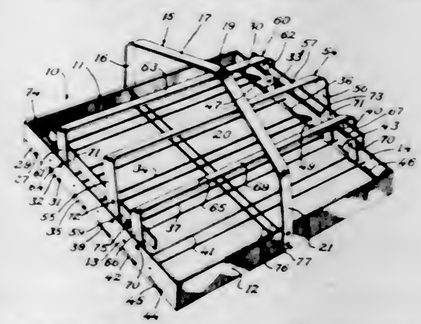
2,660,468
DEEP WELL FISHING TOOL
Herbert Cook, Edmonton, Alberta, Canada
Application July 28, 1949, Serial No. 107,289
4 Claims. (Cl. 294—65.5)

1. A fishing tool comprising a cable suspendable body, a magnet, and a separate sleeve-like member with an open bottom, encircling said magnet and connecting said magnet to said body, said magnet being a rod tapered throughout its length and said sleeve-like member being interiorly tapered to said open bottom, whereby said tapered magnet nests by gravity in snug-fitting relation in said interiorly tapered member and



is suspended by the same with support over its entire tapered surface.

2,660,469
EGG LIFTER
Hugh K. Schilling, St. Paul, Minn.
Application November 10, 1949, Serial No. 126,577
13 Claims. (Cl. 294—87.26)

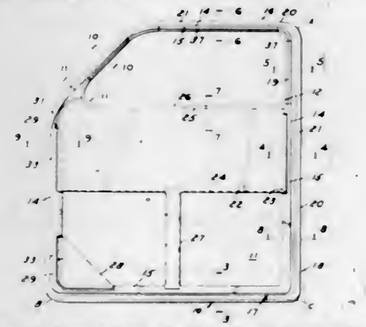


1. An egg lifter including a generally rectangular frame, a series of fixed partition elements secured to extend in parallel relation between opposite sides of said frame and supported thereby, a series of parallel movable partition elements parallel to said fixed partition elements in said frame, means on said frame for supporting said movable partition elements for movement from the position in staggered relation to said fixed partition elements to a position in substantially vertical alignment beneath said fixed partition elements, means engaging certain of said movable partition elements for actuating said certain movable partition elements individually, and means engaging said last named means for moving all of said movable partition elements in unison.

2,660,470
AUTOMOBILE DOOR STRUCTURE
August L. Nelson, Grand Rapids, Mich., assignor to Hayes Manufacturing Corporation, Grand Rapids, Mich., a corporation of Michigan
Application December 28, 1950, Serial No. 203,080
2 Claims. (Cl. 296—44)

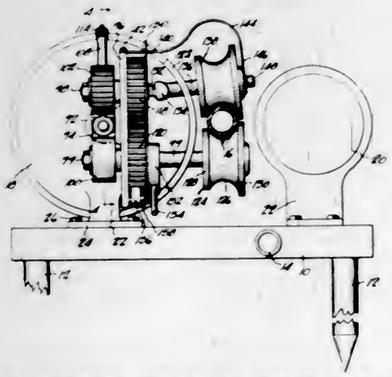
1. An automobile door comprising a unitary main panel having a window opening in the

upper part thereof, and having peripheral flanges extending completely around said panel, said flanges comprising a first flange extending generally at right angles to the adjacent portions of said panel, a second flange extending inwardly of the edge of the door from the edge of said first flange, said second flange being generally parallel to and spaced from the adjacent portions of said panel, said second flange constituting a door stop and said first flange constituting a stiffening flange therefor, a third flange extending outwardly of the panel from the inner edge of said second flange, a fourth flange extending in-



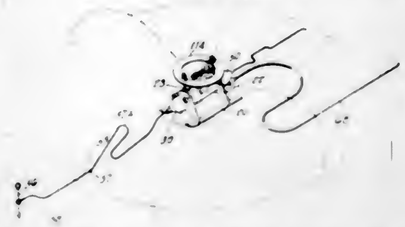
wardly of the edge of the door from the edge of said third flange, a plate extending across said main panel directly below the window opening therein, the ends of said plate being secured to said fourth flange at opposite sides of said main panel, the upper edge of said plate being spaced from the portion of said main panel at the bottom of the window opening therein to provide for passage of a movable window glass, and strip material connecting the portions of said fourth flange adjacent the top and sides of said window opening to the adjacent portion of the main panel.

2,660,471
PROPULSION MEANS FOR GARDEN HOSE
William D. Egly, South Bend, and Columbus W. Harris, Elkhart, Ind.
Application January 14, 1950, Serial No. 138,682
13 Claims. (Cl. 299—49)



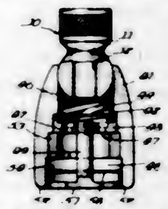
1. A propulsion device for garden hose comprising a base, ground impaling members carried by said base, a water reactance device, drive mechanism actuated by said water reactance device and including a pair of juxtaposed friction rollers both of which are driven by the water reactance device and adapted to grip a garden hose therebetween.

2,660,472
AMBULATING WATER SPRINKLER
Wendell C. Rice, Coulee Dam, Wash.
Application December 11, 1950, Serial No. 200,153
4 Claims. (Cl. 299—49)



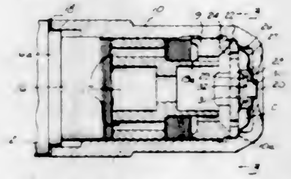
2. A vehicle propelling device having in combination a conveyance, a water motor mounted on said conveyance comprising two tandem cylinders having pistons therein, a tubular piston rod joining said pistons, a quill passing through said rod, a chuck at each outermost end of said pair of cylinders, one of said chucks being fixed with relation to the cylinders and the other chuck being movable with relation thereto, a line passing through said quill and chucks, a water supply tube, a valve admitting water from said tube to adjacent ends of said cylinders in alternate succession, a revolving sprinkler head connected to said tube, a movable head on the leading cylinder forming a support for the movable chuck and a cut-off valve actuated by said movable head for stopping the flow of water to said cylinders when said head engages an obstruction.

2,660,473
SELF-CLEANING SHOWER HEAD
George E. Hansen, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application January 16, 1951, Serial No. 206,230
3 Claims. (Cl. 299—59)



1. In a shower head construction, the combination comprising a casing having an inlet and outlet and means within said outlet adapted to form an annular outlet space in cooperation with the inner wall of said casing including an inverted cup-shaped member positioned within said casing for reciprocal movement, said member having a depending skirt interposable between said means within said outlet and the inner wall of said casing in the lowermost position of said cup-shaped member during substantial fluid flow through said casing to restrict said annular outlet space for the formation of a shower spray, said cup-shaped member being apertured through the top to permit fluid flow within said member, a magnet within said casing mounted above said cup-shaped member for displacement of the latter from its lowermost shower spray forming position when substantial fluid flow through the casing has stopped, said magnet forming an abutment limiting the upward movement of said cup-shaped member, said cup shaped member serving as a keeper for the magnet when in the uppermost abutting position, said apertures in said cup-shaped member being positioned so as to be open and effective in the passage of fluid from the inlet to the outlet of said casing for all positions of said reciprocal cup-shaped member.

2,660,474
NOZZLE
Leighton Lee II, Rocky Hill, Conn.
Application August 30, 1950, Serial No. 182,371
9 Claims. (Cl. 299—118)



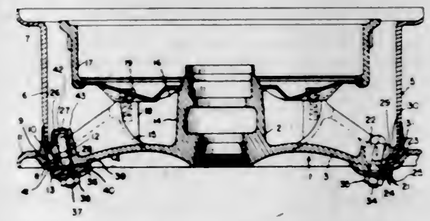
1. A diffuser nozzle construction comprising a casing having a discharge opening, a first member in said casing having swirl inducing passageways of predetermined size, a second member in said casing having swirl inducing passageways of smaller size, and means including a flexible diaphragm overlying the downstream ends of the passageways of said first member and movable responsive to fluid pressure in said nozzle from a first position for directing a fluid through said passageways in series and a second position for permitting the fluid to by-pass the passageways of the second member.

2,660,475
VERTICAL STABILIZER FOR VEHICLE WHEELS
Stewart D. Ormsby, Oswego, N. Y.
Application February 16, 1950, Serial No. 144,422
6 Claims. (Cl. 301—5)



1. In combination with a vehicle wheel having studs for attaching it with respect to an axle, and a resilient tire mounted on said wheel, a circular plate mounted against said wheel coaxially thereof and provided with a plurality of openings each coaxial with one of said studs, stud screws passing through said openings and threaded into said studs to fix said plate to said wheel, a plurality of radial housings carried by said plate and forming chambers therein, and uniform bodies of fluent inertia material in said chambers, said housing being uniformly circumferentially spaced and said chambers being of uniform cross-sectional shape and area whereby said fluent material, when the wheel rotates, generates centrifugal forces against the radially outer ends of said chambers, said centrifugal forces having upwardly and downwardly acting vertical components of force the former of which is diminished and the latter of which is increased upon the transmission of upward forces to the wheel incident to the passage of the tire over a raised spot in the highway to tend to prevent upward movement of the wheel and cause the tire to absorb the force occurring incident to the passage of the tire over said raised spot.

2,660,476
WHEEL
Emil R. Jacobi, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application February 27, 1950, Serial No. 146,555
3 Claims. (Cl. 301—12)

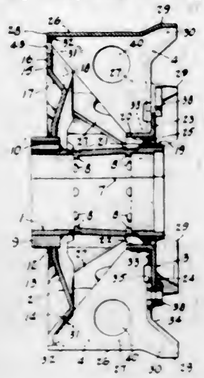


1. A wheel comprising a wheel body for demountably receiving a tire carrying rim having a radially inwardly extending annular bead, said wheel body having a series of spokes provided at one side of said wheel body with fixed abutments formed with generally radial seats engageable with one side of the rim bead and a second series of spokes at the side of a diameter of the wheel body opposite said first mentioned series of spokes, said second series of spokes being provided at the same side of said wheel body as said first mentioned abutments with fixed abutments formed with axially inclined seats engageable with the opposite side of the rim bead, clamps provided with axially inclined bearing surfaces engageable with the last mentioned side of the rim bead, said clamps being mounted on said first mentioned series of spokes and being movable toward said generally radial seats to clamp the rim bead against the same, other clamps provided with generally radial bearing surfaces engageable with the first mentioned side of the rim bead, said last mentioned clamps being mounted on said second series of spokes and being movable toward said axially inclined seats to clamp the rim bead against the same, and threaded nuts located at the same side of said wheel body as said first mentioned abutments and engaging said first mentioned and last mentioned clamps for moving the same to clamping position.

2,660,477
PRESSED STEEL TRUCK WHEEL
Donald W. Sherman, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application January 23, 1950, Serial No. 140,107
8 Claims. (Cl. 301—13)

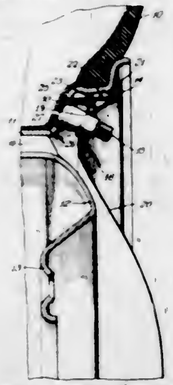
1. In a pressed steel wheel assembly for use with the tire rims of trucks and trailers and the like, a cylindrical hub member, a pair of axially spaced pressed steel web members disposed on said hub member, and a plurality of radially disposed pressed steel spoke members welded between said web members in truss relation, said spoke mem-

bers having outer faces shaped to provide support for said tire rims and having generally tri-



angular side faces extending inwardly to the region of said hub member for increased support of the wheel against collapse under side loadings.

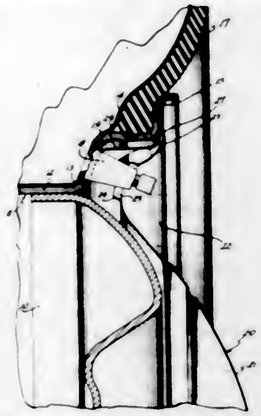
2,660,478
WHEEL STRUCTURE
George Albert Lyon, Detroit, Mich.
Application September 2, 1949, Serial No. 113,816
3 Claims. (Cl. 301—37)



1. In a cover for a wheel including a multi-flange drop center tire rim having a valve stem projecting therefrom and a supporting body member therefor, a circular cover having an integral underturned inwardly extending flange at the radially outer extremity thereof, said underturned flange terminating in spaced yieldable integral retaining portions extending axially inwardly from said underturned flange and formed with integral radially and axially outwardly inclined fingers, each of narrow depth and each presenting a rigid edge for retaining engagement with a rim flange, said cover having a valve stem aperture spaced radially inwardly from one of said portions and said one portion having an opening aligned with said aperture and defined by an edge for snugly engaging the base of a valve stem to assist in preventing creepage of the cover on the wheel.

2,660,479
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application March 11, 1952, Serial No. 275,873
12 Claims. (Cl. 301—37)

1. In a wheel structure including a load sustaining wheel body and a multi-flanged tire rim in which the tire rim has a side flange through which there is an aperture for protrusion therethrough of the valve stem of a pneumatic tube and tire assembly, a cover for the outer side of the wheel including a margin for substantial concealing disposition opposite the tire rim and having an underturned marginal flange including a plurality of tire rim engaging retaining



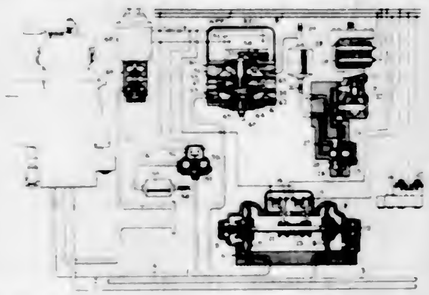
fingers extending generally radially outwardly and engageable against a flange of the tire rim axially outwardly of the side flange, said underturned cover margin having a plurality of axially inwardly extending portions bottoming against the tire rim side flange and each including a pair of generally radially inwardly extending reinforcing and spring wing flanges.

2,660,480
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application December 12, 1947, Serial No. 791,303
11 Claims. (Cl. 301—37)



1. In a wheel structure including a wheel having a body part and a multi-flanged tire rim part carried thereby and having a generally axially extending flange with an outwardly opening annular groove therein as well as a valve stem projecting outwardly from a flange thereof adjacent said groove, a cover comprising a convexly dished circular member for disposition over the tire rim part and cover retaining means nested in the rear side of the convexly dished member and fastened thereto, said means extending from adjacent the radially outer edge of the cover generally radially inwardly and axially rearwardly and including radially outwardly projecting protuberance means of a diameter such that it can be snapped into said rim part groove, and said retaining means also including a generally radially inwardly extending portion for bottoming on the rim part adjacent the wheel body part and apertured to fit snugly around the base of the valve stem.

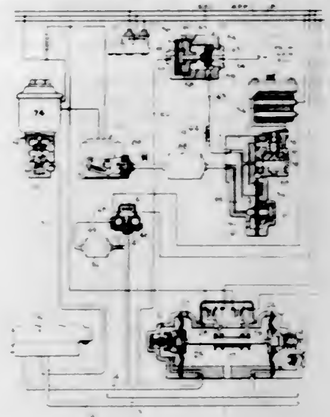
2,660,481
PRESSURE COMPENSATED CIRCUIT FAILURE PROTECTION DEVICE
John Van Varick Elsworth, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application March 28, 1952, Serial No. 279,106
2 Claims. (Cl. 303—26)



1. The combination of an electro-pneumatic brake system comprising a straight-air pipe; a pneumatically actuated master controller arranged to control pressure in said straight-air pipe and having pneumatically actuated follow up means responsive to resulting changes in straight-air pipe pressure; a control pipe for communicating controlling pressure to said master controller; a reservoir having an inlet and a constantly open restricted vent; electrically controlled valve means energized by said master controller during the development of pressure in the straight-air pipe and effective when energized to admit fluid under pressure to said inlet; first motor means actuated by pressure accumulated in said reservoir; second motor means actuated by pressure in said control pipe and acting in opposition to said first motor; brake applying means independent of said straight-air pipe and means actuated by movements of said motors in response to a resultant force exerted by said motors in excess of a predetermined value and serving when actuated to operate said brake applying means.

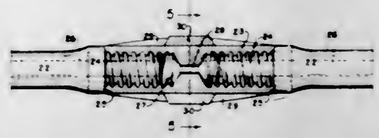
2,660,482
CIRCUIT FAILURE PROTECTION DEVICE
John Van Varick Elsworth, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application March 28, 1952, Serial No. 279,107
2 Claims. (Cl. 303—26)

1. The combination of an electro-pneumatic brake system comprising a straight-air pipe; a pneumatically actuated master controller arranged to control pressure in said straight-air pipe and having pneumatically actuated follow-up means responsive to resulting pressure changes in said straight-air pipe; a control pipe for communicating controlling pressure to said controller; a reservoir having an inlet and a constantly open restricted vent; electrically controlled valve means energized by said master controller when said straight-air pipe is being charged and effective when energized to admit fluid under pressure from a source of pressure fluid to said inlet; a pressure controlled valve interposed between said inlet and said source, said valve being controlled by pressure in said control pipe to vary the pressure head at said



inlet inversely relatively to control pipe pressure; brake applying means independent of said electro-pneumatic brake system; and means responsive to the development of pressure above a predetermined value and serving in response thereto to operate said brake applying means.

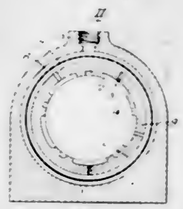
2,660,483
PERCUSSIVE DRIFT DRILL
Orville Phipps, near Denver, Colo.
Application July 22, 1949, Serial No. 106,105
1 Claim. (Cl. 308—4)



In a coupler for percussive drill string sections having an axially-elongated, generally-cylindrical body connectible with and as a coaxial link between adjacent section ends, a flow channel axially of said body, and a plurality of like, convex rib units outstanding from and longitudinally of said body in a uniform angular spacing definitive of straight, unobstructed flutes therebetween, means for minimizing frictional drag and coupler wear effects incident to percussive drill string actuation within a well bore, said means comprising, a straight channel centrally and exteriorly intersecting the full length of each of said rib units to condition the unit exposed surface for minimum frictional coaction with well bore walls as a pair of narrow, spacedly-parallel, convexly-margined rib elements end-merging with the body ends, a separate, preformed, alloy wear block of less length than the rib elements fitted to seat within and to fill the central portion of each unit-intersecting channel between the rib elements thereof in conforming engagement of its side and bottom surfaces with the channel and rib element surfaces contacted thereby, a permanent bond uniting the full contacting areas of said block and its mounting, and

an exposed wear surface on said block conformed to the exposed margins of its associated rib elements.

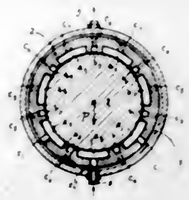
2,660,484
FLUID BEARING
Paul Gérard, Paris, and Henri Séranne, Villeurbanne, France, assignors to Gendron Freres, S. A., Villeurbanne, France, a company of France
Application July 8, 1950, Serial No. 172,666
Claims priority, application France
January 24, 1950
8 Claims. (Cl. 308—9)



1. A bearing structure adapted to support a rotor member by pressure of a low viscosity fluid continuously supplied thereto at a relatively high volumetric rate, said bearing structure comprising a rotor and a member concentric to said rotor and interfitting therewith with a clearance therebetween, a plurality of circumferentially spaced and separated pressure zones between said concentric members, each said zone having formed in one of said members inlets for conducting said pressure fluid to one or more localized points therein, at least one groove extending along a surface of said zone from each said inlet and arranged to receive pressure fluid directly from said inlet and to distribute said fluid substantially uniformly throughout a major part of said zone, and axially extending outlet channels separating said pressure zones and adapted to receive and evacuate the pressure fluid from said zones at said relatively high rate, a major part of the area of each pressure zone being constituted by concentric surfaces of the movable members spaced no farther apart than the maximum clearance between said members and said pressure zones constituting the major portion of the areas of the interfitting portions of said members whereby a substantially uniform high fluid pressure is maintained throughout the area of each of said zones to resist relative radial movement of said members.

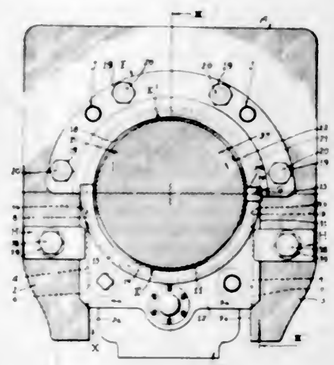
2,660,485
FLUID SUPPORT
Paul Louis Julien Gerard, Paris, France
Application August 8, 1951, Serial No. 240,959
In France January 19, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires January 19, 1965
11 Claims. (Cl. 308—9)

1. A bearing structure comprising a fixed member, a rotatable member concentric and interfitting therewith with a clearance therebetween and subjected to substantially constant external forces acting in a direction radial to said members, seven circumferentially equally spaced recessed portions in the bearing surface of said fixed member, one of said recessed portions being so located that the resultant of said external forces passes substantially in the middle thereof, means to conduct fluid under pressure to said recessed portion and the two recessed portions located on either side thereof, longitudinal grooves separating each one of said recessed portions from the next one, means to conduct fluid



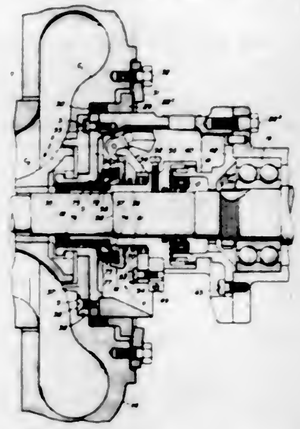
under pressure from each of the four longitudinal grooves adjacent to said three recessed portions to the recessed portion diametrically opposite each said groove and means to evacuate said fluid towards a low pressure zone from the three other grooves.

2,660,486
CLIP FOR PRECLUDING ROTATION OF SEGMENTS OF OIL-RETAINING RING IN JOURNALS
Louie Alex, Oakland, Calif.
Application September 17, 1951, Serial No. 246,991
2 Claims. (Cl. 308—36.1)



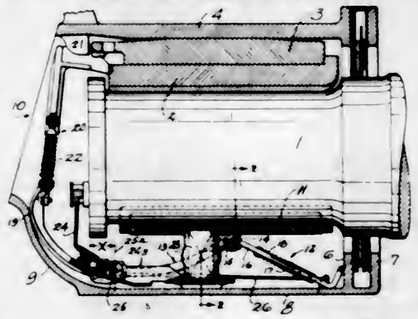
1. The combination with a journal for receiving an axle and including a stationary block; a driver box cellar removably secured to the stationary block and having a semi-circular groove that is concentric with the longitudinal axis of the axle; a flange carried by the stationary block and having a semi-circular groove that is concentric with the axle axis and mates with the first mentioned groove when the box cellar is in operative position; a lower half circular oil ring segment received in the semi-circular groove formed in the box cellar; and an upper half circular oil ring segment received in the semi-circular groove formed by the flange; of a clip having a flat wall positioned between the adjacent ends of the lower and upper half oil ring segments and also positioned between the top of the driver box cellar and an adjacent portion of the flange for preventing the rotation of the oil ring segments around the axle, and means for removably securing the clip to the driver box cellar; said means not interfering with the removal of the box cellar from the block.

2,660,487
CENTRIFUGAL PUMP BEARING SEAL
Elmer R. Wilfley, Denver, Colo., assignor to A. R. Wilfley and Sons, Inc., Denver, Colo., a corporation of Colorado
Application May 31, 1951, Serial No. 229,092
4 Claims. (Cl. 308—36.4)



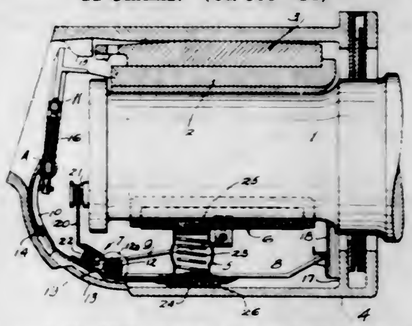
1. A centrifugal pump having a casing, a rotatable shaft operable in the casing with an annular valvular space between the casing and the shaft, and a check-valve assembly for opening the space when the pump is running and for closing the space at other times comprising a fixed annular plate surrounding the space, a hub engaging the shaft and a peripheral rim supported from the hub by a resilient diaphragm axially deflectable into and out of sealing contact with the plate while the hub remains emplaced, a spring-loaded annular disc supported from the rim for unitary shifting therewith, the annular disc having an overhanging peripheral portion, the rim having a conical divergence thereon, the conical divergence engaged by and retained in the overhanging peripheral portion, and speed-controlled actuating means operable upon the disc for shifting against such spring-load the disc and the rim into non-sealing position.

2,660,488
RAILWAY AXLE JOURNAL LUBRICATOR
James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware
Application October 9, 1950, Serial No. 189,232
8 Claims. (Cl. 308—84)



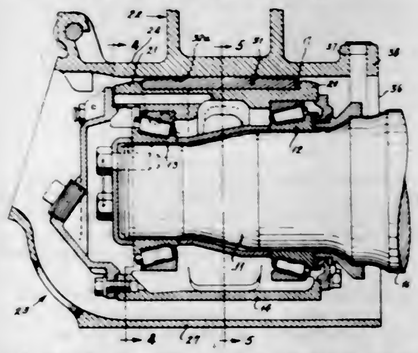
1. In combination with a railway axle journal and a box mounted thereon, means for supplying lubricant from the lower portion of the box to the journal and including support members and a device mounted thereon and engaging the end of the journal, a yielding structure connected to said support members and engaging a downwardly facing element on the box to thrust said support members towards each other and rearwardly of the box, and means limiting the movement of said support members toward each other.

2,660,489
RAILWAY JOURNAL LUBRICATOR
James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware
Application May 15, 1951, Serial No. 226,510
11 Claims. (Cl. 308—84)



1. In a railway journal box lubricator, a lubricant distributor for application to a journal, a pump for supplying lubricant to said distributor, a member for supporting the distributor and pump on the bottom wall of the journal box, a spacer connected to the support member projecting therefrom longitudinally of the distributor to engage a journal box end wall to hold the distributor and pump against movement longitudinally of the distributor in one direction from a predetermined position in the box, and yielding thrust means for engaging the box to move said support member in said direction to the extent permitted by the spacer.

2,660,490
RAILWAY CAR AXLE JOURNAL BEARING MOUNTING
Harry M. Jones, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application March 5, 1951, Serial No. 213,820
8 Claims. (Cl. 308—180)



1. A car axle journal roller bearing mounting comprising a housing for roller bearings provided

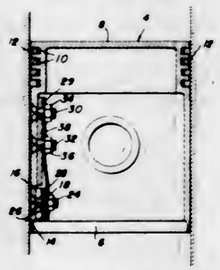
with opposite side recesses each having an outstanding thrust margin, said housing also providing a top recess defined between inner and outer end flanges on the housing, a thrust member seated in said top recess against one of said flanges, said member having lugs thereon with thrust faces adjacent said side recesses, and a journal box enclosing said housing and member, said box being formed with internal projections which extend into said side recesses and are engaged by said housing thrust margins and by the thrust faces of said lugs.

2,660,491
FOLLOWER-PLATE FOR LUBRICANT CONTAINERS AND THE LIKE
Edwin P. Sundholm, Albert City, Iowa
Application April 2, 1947, Serial No. 738,900
3 Claims. (Cl. 309—4)



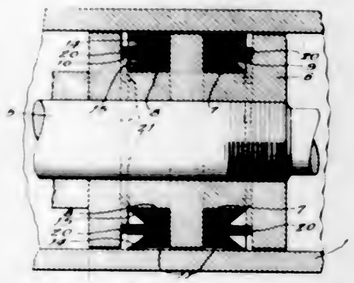
1. A follower plate for use with a generally cylindrical thin-walled sheet-material lubricant container, said follower plate constructed and arranged to be disposed within the container and adapted to rest upon the lubricant therein and wipingly to contact the inner cylindrical wall of said container, said follower plate including a main body portion of relatively rigid thin sheet-material having a peripheral edge-zone flange, an outer peripheral ring of resilient material secured to said flange and flanking both sides thereof and extending at an angle to the plane of said flange on only one side of said body portion and terminating in a container-contacting periphery spaced radially outwardly beyond the periphery of said flange, the under-surface of the flanking portion of said ring being in substantially the same plane as the under-surface of said body-portion.

2,660,492
PISTON STABILIZER
Harold S. Lewis, Frankfort, Ind.
Application July 2, 1951, Serial No. 234,753
1 Claim. (Cl. 309—5)



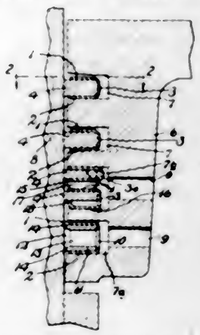
In a piston construction a piston having customary head and skirt portions, said skirt portion being provided with an opening, an insert fitted removably but snugly in said opening and having an outer convex curvature corresponding to the convex curvature of the outer surface of said skirt portion, a spacer mounted on the interior of the skirt portion in alignment with the opening and insert, a flat spring superimposed on said spacer, accessible bolts passing through bolt holes provided therefor in the skirt portion, spacer and spring, one end of said spring being opposed to said insert, shim means interposed between the spring and interior surface of the insert, a single bolt piercing the central portion of the insert and passing through the shim means and through the spring and provided on its inner end with an assembling and clamping nut.

2,660,493
PISTON AND PISTON RING ASSEMBLY
Francis S. Flick, Chicago, Ill., assignor to Miller Motor Company, a partnership consisting of William J. Reedy and Francis S. Flick
Application November 10, 1948, Serial No. 59,378
2 Claims. (Cl. 309—23)



2. A piston seal formed of synthetic rubber and the like having a substantially homogeneous body portion formed with parallel side walls and a longitudinally extending annular skirt on each of the radially outer and inner sides of the body portion, said skirts having a relatively wide base portion and a relatively narrow tip portion, and an annular tongue extending longitudinally from the body portion between said skirts, said seal being stretchable for placement in proper position on a piston.

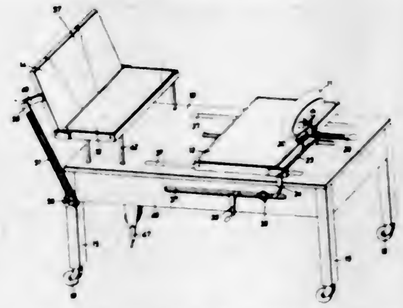
2,660,494
PISTON RING
Ernest R. Olsen, Muskegon, Mich.
Application October 4, 1951, Serial No. 249,682
4 Claims. (Cl. 309—29)



1. A piston ring comprising, a narrow cast iron ring member, parted at one side and of rectangular cross section, and a housing carrier for said ring member of thin tempered steel, said carrier also having a parting at one side and having spaced sides located one at one side of the cast iron ring member and one at the other side thereof, and an integral web connecting said sides located at the inner curved side of said cast iron ring member, said ring member and carrier therefor when free being normally of an even radial

wall pressure design of out-of-round form and when closed at the parting being of an even radial wall pressure shape, both said ring member and carrier therefor yieldingly resisting closure at the parting, and the outer curved bearing face of the cast iron ring member being a short distance outwardly of the adjacent free edges of the spaced side of the carrier.

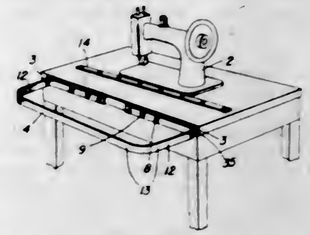
2,660,495
TABLE SERVING FOR MEDICAL TREATMENT OF THE HUMAN BODY
Georg Schwalbe, Hannover, Germany
Application June 22, 1949, Serial No. 100,566
2 Claims. (Cl. 311—7)



1. A table for treating a patient in crouching position, comprising, in combination, an elongated supporting frame; a knee supporting member vertically movably mounted on one end of said supporting frame; a shank supporting member pivotally mounted on said knee supporting member projecting beyond said one end of said supporting frame, said shank supporting member being tiltable about a transverse horizontal axis from a downwardly extending inoperative position to an upwardly extending operative position; carriage means horizontally longitudinally movably mounted at the other end of said supporting frame for manual movement towards and away from said other end of the same; an elbow supporting member vertically movably mounted on said carriage means; a head support vertically movably mounted on said elbow supporting member; first manually operated means mounted on said supporting frame means engaging said knee supporting member for vertically moving the same; second manually operated means mounted on said carriage means and engaging said elbow supporting member for vertically moving the same; third manually operated means mounted on said elbow supporting member and engaging said head support for vertically moving the same; and clamping means mounted on said supporting frame means for holding said shank supporting member in said operative position.

2,660,496
WORK SUPPORT ATTACHMENT FOR SEWING MACHINE TABLES
Eugene T. Lake, Brodheadsville, Pa.
Application September 14, 1949, Serial No. 115,643
2 Claims. (Cl. 311—15)

1. A work support attachment for a sewing machine table comprising a frame bent in the form of a horizontal bow, each end of the bow being fastened to the table at a multiplicity of points, said bow being resilient in the horizontal dimension, and free to deform resiliently toward the table under pressure of the operator's body and the fastening means nearest each end of the



bow being adjustably resilient, in combination with a bag on the frame to hold the goods being worked on.

2,660,497
ARTISTICALLY SHAPED FOLDING LEG TABLES
Glenn H. Norquist, Jamestown, N. Y.
Application August 16, 1950, Serial No. 179,709
3 Claims. (Cl. 311—77)

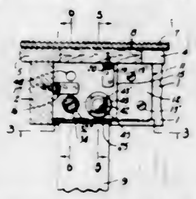


1. A folding leg table including in combination, a table top section having a depending apron frame, a plurality of table legs for supporting said table top section in erected position, a leg hinging and latching assembly associated with each of said table legs and fully contained within the confines of said apron frame when the leg is in erected position, said leg hinging and latching assembly comprising a hinge bracket secured to said table top section and positioned adjacent the inside face of said apron frame, a pivot bolt swingably connecting the upper end portion of the table leg to said hinge bracket, and latching means for releasably locking the upper end portion of the table leg and said hinge bracket to retain the table leg in rigid erected position, each of said table legs having a shoulder portion directly below the upper end portion thereof designed to extend under and to substantially abut the lower edge of said apron frame with the adjacent outside face of said apron frame and the adjacent outside face portion of the table leg providing a substantially flush joint therebetween when the table leg is in fully erected position.

2,660,498
TABLE LEG PIVOT LATCH MECHANISM
Glenn H. Norquist, Jamestown, N. Y.
Application May 19, 1950, Serial No. 163,046
5 Claims. (Cl. 311—99)

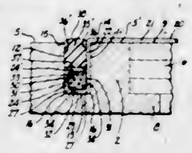
1. An improved folding leg table comprising a table section presenting an enclosing apron frame, a plurality of table legs supporting the table top section, and a leg hinging assembly associated with each of said table legs fully contained within the confines of said apron frame

when the legs are in erected position, said hinging assembly comprising a metal hinge bracket presenting a pair of parallel extending bracket legs connected by a base portion, means for securing said hinge bracket to said apron frame with the base portion of the bracket adjacent the apron frame and with one of said bracket legs spaced from the apron frame, a metal collar secured to the upper end of the table leg and shaped to be contained within said hinge bracket with the opposite side walls of the collar snugly received between the legs of the bracket, said collar having an end wall designed to seat in tight abutting relation to the lower edge of said bracket base portion when the leg is fully erected to thereby provide the abutment point of a wedge locking triangle, a pivot bolt swingably connecting the table leg to said hinge bracket, said pivot bolt extending through the legs of the hinge



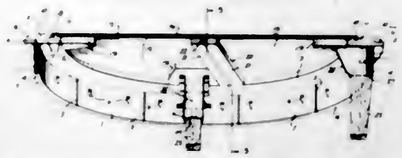
bracket and transversely through the table leg and the side walls of the leg collar, said pivot bolt being located substantially above the lower abutment edge of the bracket base portion to thereby define the pivoting apex point of said wedge locking triangle, a conforming hole bored transversely into the upper portion of the table leg and one of the side walls of said collar, a latch bolt having a tapered end portion slidable within said conforming hole, and a latching hole presenting a camming rim in said frame-spaced bracket leg through which the tapered end portion of the latch bolt is designed to project to lock the table leg in erected position, said latching hole being located above the lower abutment edge of said bracket base portion and spaced a substantial distance laterally from said pivot bolt to provide the wedge point of said wedge locking triangle when the tapered end portion of the latching bolt is wedge locked therein.

2,660,499
EDGE FASTENING FOR TABLE TOP COVERINGS
Glenn H. Norquist, Jamestown, N. Y.
Application June 27, 1950, Serial No. 170,642
6 Claims. (Cl. 311—106)



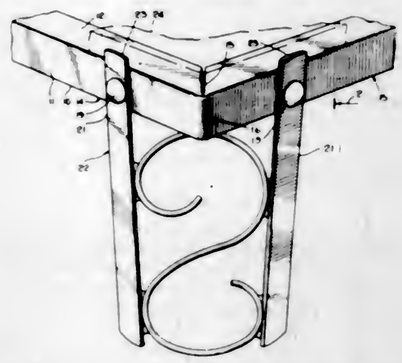
1. In combination with a covered table top presenting a wood edging frame having a finished upper face, a table top panel fitted within said edging frame, and a covering sheet extending over said table top panel, of means for securing the peripheral edge portion of said covering sheet to said edging frame, said securing means including a groove formed in the upper finished face of the edging frame into which the peripheral edge portion of the covering sheet is inserted, a deformable rattan strip of initially oversize and substantially circular cross-sectional contour pressure driven into said groove and pressure flattened into tight fitting overlying relationship to the inserted peripheral edge portion of the covering sheet, and a trimming spline pressure wedged into the groove in superimposed relationship over the rattan strip.

2,660,500
TABLE TOP CONSTRUCTION
Glenn H. Norquist, Jamestown, N. Y.
Original application August 16, 1950, Serial No. 179,709. Divided and this application June 1, 1953, Serial No. 358,814
3 Claims. (Cl. 311—106)



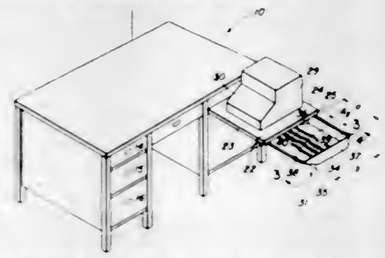
1. A table top construction including in combination, a continuous edging frame formed from arcuate shaped sections of selected hardwood having the wood fibres extending longitudinally thereof and presenting substantially flat top and bottom faces and generally arcuate shaped inner and outer edges, an apron frame formed from normally straight sections of selected wood of substantially uniform thickness which have been steamed and pressure bowed into arcuate form to present vertically extending inner and outer faces of arcuate contour and a flat horizontal top edge, and means for fixedly securing the top horizontal edge of each of said arcuately bowed apron sections to the under face of said edging frame with the apron frame in rigidly fixed depending relation thereto, said arcuate apron sections having the inner surface fibres thereof only severed by a plurality of transversely spaced shallow cuts to thereby maintain the arcuate apron sections against re-straightening deformation and relieve the edging frame of rupturing strains.

2,660,501
COMBINATION TABLE LEG AND TABLE TOP RETAINER
Charles P. Molla, New Hyde Park, N. Y.
Application April 23, 1952, Serial No. 283,915
4 Claims. (Cl. 311—110)



1. A table structure of the character described, comprising a rectangular table top frame having angularly disposed sides of angleiron cross-sectional form, said sides intersecting to form a corner, said sides defining perpendicular peripheral walls and horizontal upper walls, the perpendicular walls of the frame, adjacent, but spaced, from said corner having angular apertures, a leg member having spaced upper ends, said spaced ends having apertures angular in form to correspond with and register with the angular apertures of the perpendicular walls, bolts for coupling the leg member with the table frame, said bolts having angular shanks conforming with the apertures of said leg member and frame to key the leg member on the frame and against displacement therefrom, and the apertured end portions of said leg member having parts extending above the upper surface of the horizontal upper walls of the table frame to form table top retaining cleats.

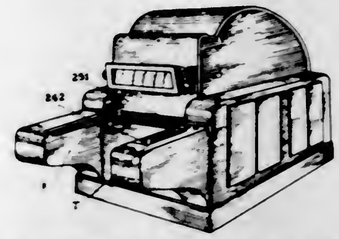
2,660,502
TYPIST'S DESK
Mary M. Smith, Stamford, Conn.
Application May 24, 1952, Serial No. 289,719
2 Claims. (Cl. 312—21)



1. In a desk having at one side thereof a storage compartment for a disappearing typewriter, the combination of a floating type disappearing typewriter baseboard movable bodily by parallel motion from a low position within the compartment to an elevated position outside and forwardly of the compartment, said baseboard adapted to support a typewriter with the keyboard facing sideways inwardly from the baseboard and to be thus faced by the typist, with a supply container for sheets of stationery associated with the underside of the baseboard so that the container is adapted to lodge together with said baseboard within said storage compartment when in said low disappearing position and to travel together with said baseboard from said low position to said elevated position, the container being in the form of a drawer manually slidable from a retracted position underneath the baseboard to an extended position forwardly of the outer free end of the baseboard, the drawer having partition means of relatively shallow slope downwardly and outwardly in a direction transversely of the direction of the sliding movement of the drawer to provide compartmentation for receiving sheets of stationery, said compartmentation being disposed substantially within a horizontal area extending from the outer end of the baseboard as well as laterally of the typewriter when the drawer is extended.

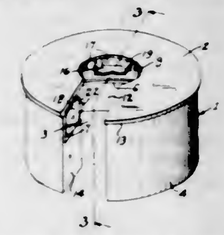
2,660,503
SELECTIVE DELIVERY FILING CABINET
Enrico Bertello, Borgo San Dalmazzo, Italy
Application July 20, 1950, Serial No. 174,829
23 Claims. (Cl. 312—223)

1. A selective delivery filing cabinet, comprising a drum rotatable in both directions, a plurality of filing drawers in said drum, keys for effecting operations of the said drum for selectively opening and closing the said drawers, the shanks of said keys having notches and grooves therein, blocking bars adapted to engage in said notches for the purpose of locking said keys in a depressed condition, a slide bar adapted to slide in said



grooves for releasing said blocking bars from said notches, a fork secured to said slide bar for controlling same, and a lever movable along said fork, the latter being slidable under the action of said lever.

2,660,504
DESK WITH ROTATING DRAWER
Walter W. Bridge, San Francisco, Calif.
Application June 5, 1950, Serial No. 166,144
3 Claims. (Cl. 312—239)

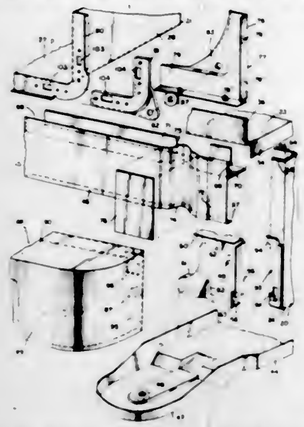


1. In combination with a drawer support frame, a top on the frame, said frame and top having a space to accommodate the user of the drawer in a substantially central position relatively to the top, and having a generally radial passage extending from the periphery of the top to said space, a substantially annular supporting track on said frame extended from the opposite sides of said passage around the remaining portion of said space and below said top, and a substantially ring-like drawer element rotatable on said track below said top for exposing a selected portion of said drawer element across said passage, said drawer element having an opening thereon registerable with said passage to render said exposed portion accessible, said drawer element including a ring-like bottom with a transverse open section corresponding to said passage, and generally parallel arcuate spaced upright sides defining the drawer space in said drawer element.

2,660,505
REFRIGERATOR CABINET STRUCTURE
Floyd R. Eck, Des Plaines, Ill., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application August 27, 1951, Serial No. 243,832
20 Claims. (Cl. 312—253)

20. In a refrigerator cabinet structure, a shell open at the front and having a bottom wall, side walls projecting below the bottom wall and having laterally inwardly opening channels extending along the front vertical edges, a pair of lat-

erally spaced base rails extending beneath the bottom wall of the shell from the front of the shell toward the back thereof and located between said side walls, a pair of vertical legs respectively secured at their lower ends to the



base rails adjacent the front ends thereof and having bearing surfaces at the outer edges respectively projecting into the channels and engaging said walls, a mullion extending between the side walls below the bottom wall of the shell and secured to the legs and said side walls.

2,660,506

STORAGE FILE FOR PROGRAM TAPES

Elvin Stanley Wright, Shrewsbury, Mass.

Application February 24, 1950, Serial No. 146,016

2 Claims. (Cl. 312—306)



1. In a storage file for endless program tapes, a file box having a vertical rear wall and narrow side, top and bottom walls forming an open sided shallow container, an upper row of horizontal parallel pegs fixedly mounted on the rear wall and projecting therefrom not more than the width of the side walls which are widely spaced from the top wall to permit ready manual access for hanging a tape thereon, a set of vertical parallel plates mounted on the rear wall, flange means projecting from each plate which form slideways beneath and extending only part way and upwardly towards the fixed pegs, a horizontal movable peg arranged vertically beneath, parallel to and of substantially the same length as each fixed peg which has a laterally projecting foot slidably mounted in the associated slideway and arranged for movement downwardly under the influence of gravity, the vertically associated fixed and movable pegs being cylindrical and having a substantial diameter and each lower peg having such a weight that a plurality of similar program tapes may be held distended between the pegs under a low pressure without creasing or rupture thereof, and means for preventing accidental removal of the lower pegs from their slideways.

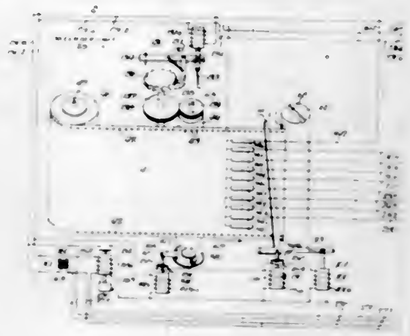
2,660,507

SYSTEM AND APPARATUS FOR DETERMINING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS

George Ralph Cordell, Terre Haute, Ind., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois

Application March 26, 1948, Serial No. 17,314

17 Claims. (Cl. 346—22)



1. In a device for recording the tuning condition of a wave signal receiver, means for movably supporting a record element upon which record indications may be produced, a mailable cartridge having an opening defined therein disposed so as to receive said record element after record indications are produced thereon, means responsive to any change in the operating condition of said receiver for producing a plurality of record indications on said record element indicative of the tuning condition of said receiver and the specific time at the instant the record indications are produced, a first means for moving said record element approximately at the time of operation of said last mentioned means, a second means independent of said first means for moving said record element at the end of a predetermined calendar period, and means operative in response to the operation of said second means for cutting off said record element at the opening in said mailable cartridge.

2,660,508

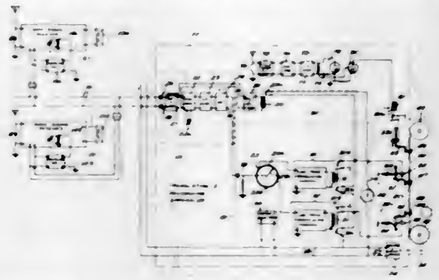
SYSTEM AND APPARATUS FOR DETERMINING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS

Henry A. Rahmel, Evanston, Ill., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois

Application July 23, 1947, Serial No. 762,962

34 Claims. (Cl. 346—37)

1. In a system for recording information relative to the particular radio transmitting station to which a wave signal receiver is tuned, means responsive to the tuning of said receiver when tuned to receive signals from any one of a plurality of transmitting stations for producing on a movable record receiving element a record representative of the particular tuning condition of said receiver, means of a type subject to occasional operating interruptions for indeterminate periods for moving said element in a predetermined manner relative to time, and signal receiver means responsive to the sign-off or sign-on time of a predetermined transmitting station for



producing a time indication on said element, whereby a check on the operation of said means for moving said element is periodically obtained.

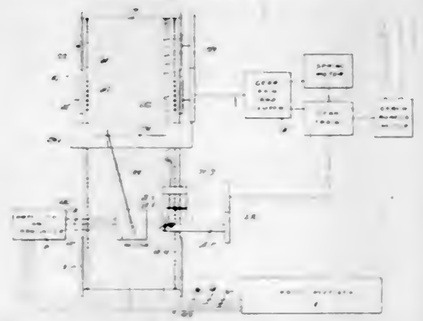
2,660,509

RECORDING APPARATUS

Hugo L. Rusch, Lambertville, N. J., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois

Continuation of application Serial No. 518,355, January 15, 1944, which is a division of application Serial No. 273,300, May 12, 1939. This application November 4, 1948, Serial No. 58,165

5 Claims. (Cl. 346—37)



1. Apparatus for recording over an extended period of time such as a day, a week or more information pertinent to the tuning condition of a wave signal receiver comprising tuning means for said receiver, a recording mechanism having a movable recording element associated therewith, means for normally moving said recording element at a constant speed over said entire extended period of time, means for producing a record on said element, means relating said record producing means to said tuning means thereby to produce a record representative of the tuning condition of said receiver with respect to time, and independent means for applying a time record on said element whereby time information affording a check on the constant speed movement of said element is provided.

2,660,510

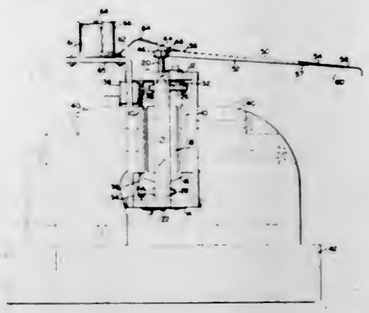
OSCILLOGRAPH

Albert M. Grass, Quincy, Mass.

Application October 9, 1947, Serial No. 778,921

1 Claim. (Cl. 346—139)

A multiple oscillograph assembly comprising a plurality of independent units arranged side by side in mutually contacting relation, each unit including a coil and a pair of permanent magnets, the coil and pole faces of said magnets being relatively long and thin, a long thin base supporting said magnets with the pole faces facing each other, a pivotal mounting for said coil mounted on the pole faces of said magnets to permit rotation about an axis parallel to the long dimension of said coil, each unit including the body of each magnet and said base being



limited in its lateral dimension in all parts thereof to an amount not greater than the width of the pole faces, whereby the several units may be arranged side by side in mutually contacting relation with the pivotal axes of the coils parallel, a recording pen for each unit overlying the magnets and actuated by said coil, limited in its motion to an amount not greater than the width of each magnet assembly, whereby the several units may be arranged for multiple channel recording.

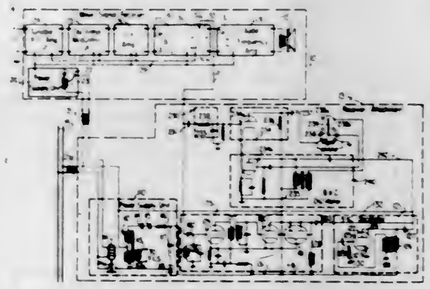
2,660,511

LOCKOUT AND RECYCLING DEVICE FOR AN APPARATUS FOR DETERMINING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS

Serge A. Scherbatskoy, Tulsa, Okla., and Robert L. Freeman, Evanston, Ill., assignors to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois

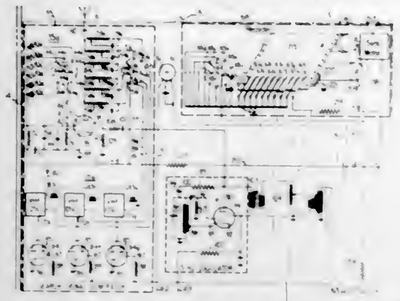
Application October 24, 1947, Serial No. 781,990

30 Claims. (Cl. 346—37)

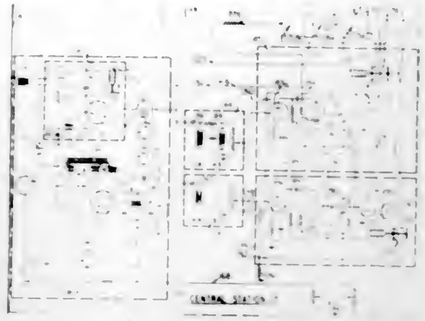


1. In a device for determining the listening habits of users of a wave signal receiver capable of being tuned to any one of a plurality of radiated carriers from transmitters disposed within the reception range of said receiver comprising a generator separate from said receiver for cyclically generating a search signal varying in frequency throughout said search cycle, means for intermodulating said search signal with a signal whose frequency is related in a predetermined manner to the frequency of the one of

said radiated carriers tuned in by said receiver whereby a response is produced due to such intermodulation, the instant of occurrence of said



response during said cycle being indicative of the particular transmitter to which said wave signal receiver is tuned, and means responsive to the occurrence of said response for interrupting the operation of said generator shortly after said



receiver is tuned to receive a particular one of said radiated carriers.

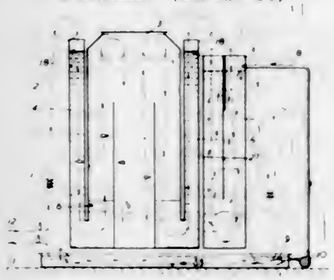
CHEMICAL

2,660,512

METHOD AND APPARATUS FOR CONTROLLING THE LIQUID SEALS ON STEAM STERILIZERS

Alexander Hyde Webster, London, England, assignor to R. W. Webster and Company Limited, Abbey Ironworks, Waltham Cross, England, a British corporation

Application January 14, 1949, Serial No. 70,987
Claims priority, application Great Britain February 6, 1948
5 Claims. (Cl. 21—56)



1. A method of steam sterilizing articles in a closed heated steam sterilizing zone having an inlet sealed by a water-filled U-shaped sealing zone having an inner leg in communication with said sterilizing zone and an outer leg in communication with the atmosphere, passing the articles to be sterilized serially through the outer and inner legs of the sealing zone into the steam sterilizing zone, and forcibly positively cooling a fixed length of the upper portion of the column of water in the outer leg of the sealing zone from the top thereof down to a point about one third of the depth of the column of water in the outer leg.

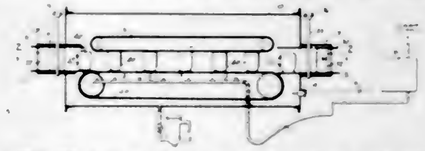
2,660,513

METHOD OF STERILIZING GLASS CONTAINERS

Charles Olin Ball, Maumee, Ohio

Application June 30, 1949, Serial No. 102,347
2 Claims. (Cl. 21—56)

1. The method of sterilizing empty heavy walled soft glass containers which comprises conveying each container having a temperature of approximately room temperature into a chamber filled with steam having a temperature betwen 240° F. and 325° F. and projecting within six seconds thereafter steam into the interior of said container so as to completely contact the interior thereof with steam at a temperature not more



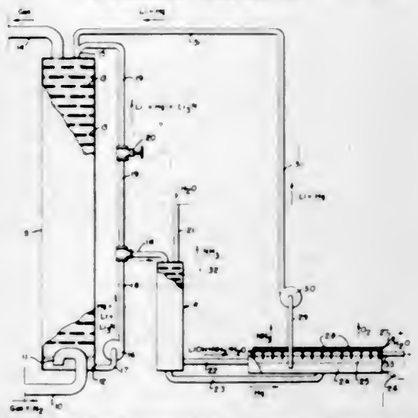
than 25° F. below the temperature of the heating medium filling the chamber, and thereafter retaining the container within the heating chamber until the container has been effectively sterilized with respect to highly heat resistant bacterial spores.

2,660,514

REMOVAL OF NITROGEN FROM MIXTURES OF COMBUSTIBLE GASES

Frederick A. Rohrman, Boulder, Colo.

Application April 8, 1949, Serial No. 86,245
8 Claims. (Cl. 23—3)



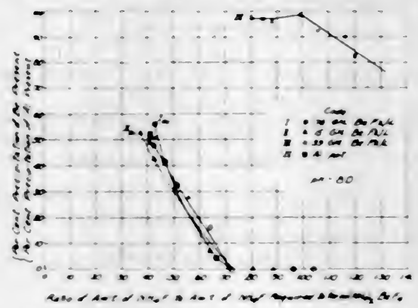
1. A method of removing nitrogen from a mixture of combustible gases containing nitrogen, which comprises contacting the gaseous mixture with an alloy of lithium and a low melting point, eutectic fusible alloy, at a temperature at which said lithium alloy is a liquid, so as to react nitrogen with lithium to form lithium nitride, said mixture having no lithium reactive components, other than nitrogen, which are present in an amount sufficient to prevent reaction between nitrogen and lithium under the reaction conditions; reacting said lithium nitride with water to produce ammonia and lithium hydroxide; and regenerating said alloy of lithium and said low melting point eutectic fusible alloy by electrolysis of said lithium hydroxide in the presence of said low melting point, eutectic fusible alloy.

2,660,515

METHOD OF PRODUCING FLUORIDIC COMPOUNDS OF BERYLLIUM OF HIGH PURITY

Carl W. Schwenzfeier, Jr., Bay Village, and Carl S. Pomelee, Elyria, Ohio, assignors, by mesne assignments, to Reconstruction Finance Corporation, Cleveland, Ohio, a corporation of the United States of America

Application December 3, 1948, Serial No. 63,384
8 Claims. (Cl. 23—88)



1. In a process of removing impurities from an ammonium beryllium fluoride solution by treating the solution with alkaline reagents to precipitate as compounds of the group consisting of hydroxides, carbonates and sulphides and mixtures thereof impurities present of the group consisting of aluminum, silicon, copper, iron, lead, nickel, cadmium and chromium and mixtures thereof, the step of adjusting the amount of ammonium fluoride present in the solution to an amount such that after addition of a sufficient amount of the alkaline reagent to precipitate the impurities to be removed the ammonium fluoride content of the solution will be between 70 percent and 100 percent of the stoichiometric amount required to form normal ammonium beryllium fluoride ($(NH_4)_2BeF_4$) with the beryllium fluoride present.

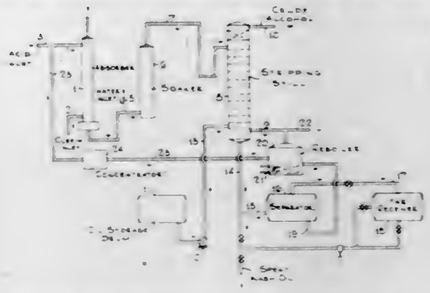
2,660,516

SULFURIC ACID RECOVERY

George B. Leyden, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application January 25, 1950, Serial No. 140,392
3 Claims. (Cl. 23—172)

1. In a process for recovering sulfuric acid from a dilute aqueous sulfuric acid extract obtained by absorbing ethylene in about 95% to 100% sulfuric acid, diluting the extract with water to a lower acid concentration in order to hydrolyze sulfuric acid esters of the ethylene, distilling ethyl alcohol from the diluted extract and producing a spent aqueous sulfuric acid of about 45% to about 67% strength containing free carbon as a bottoms product, the improvement which comprises adding to said spent acid pine oil in an amount equal to about 0.1 to 1.5 volume



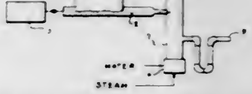
per cent of the spent acid to flocculate the carbon, settling the thus treated acid to obtain an oil layer containing the carbon particles and an acid layer freed of said carbon particles, and separating said oil layer containing the carbon particles from the acid layer.

2,660,517

PRODUCTION OF SODIUM HYDROXIDE AND HYDROGEN FROM ELEMENTAL SODIUM

Frank L. Padgitt, Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

Application January 29, 1952, Serial No. 268,743
5 Claims. (Cl. 23—184)



1. A process for converting a sodium metal feed which comprises providing a pool of liquid sodium hydroxide in a confined oxygen-free space, continuously introducing a feed having at least 25 percent by weight free sodium, on the upper surface of said pool and floating thereon, said feed being of lower density than the said liquid pool, and passing steam upwardly through the pool at a rate greater than could entirely react with the floating sodium, reacting part of the steam with the sodium to form additional sodium hydroxide and hydrogen, collecting the so-formed sodium hydroxide in the pool and concurrently discharging an equivalent amount of sodium hydroxide from the pool, and discharging the hydrogen from the confined space with the unreacted steam.

2,660,518

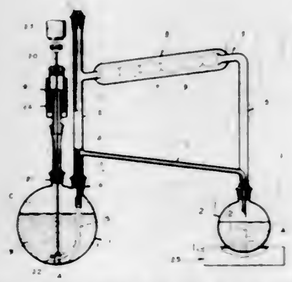
HIGH-SPEED CONTINUOUS EXTRACTOR

John L. White, Kalamazoo, Mich., assignor to The Upjohn Company, a corporation of Michigan

Application February 19, 1951, Serial No. 211,750
7 Claims. (Cl. 23—267)

1. In an apparatus for continuous extraction, a device comprising: first and second, substantially parallel and vertical pipes, said first pipe being open at both ends and said second pipe being open at its lower end and closed at its upper end; a condenser having an outer casing

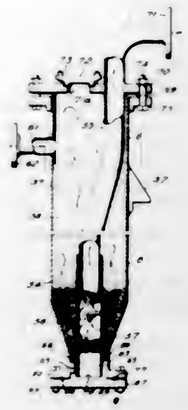
and an inner tube, said inner tube communicating at one end with said second pipe at its upper end and communicating at its other end with said first pipe near its upper end, said inner tube being sloped downwardly from said second pipe to said first pipe; a drain pipe between said first and second pipes communicating at one end with said first pipe intermediate its lower end and said inner tube and extending through an opening in the sidewall of said second pipe intermediate its ends, said drain pipe being secured to the wall of said opening, being sloped downwardly from said first pipe to said second pipe and having a portion thereof coaxially disposed within and spaced from the walls of said second pipe and extending through the lower end thereof; an



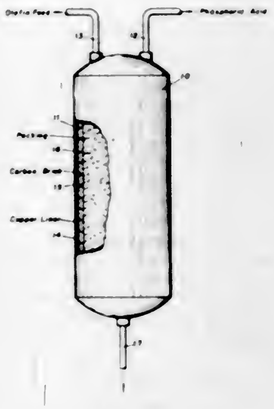
open ended inner pipe coaxially disposed within said first pipe within and spaced from the walls of the first pipe, said inner pipe extending from a point intermediate said inner tube and said drain pipe through the lower end of said first pipe; and a circular wall integral with and extending between the upper end of said inner pipe and said first pipe; a solvent receptacle receiving the lower end of said second pipe in liquid tight relationship therewith; means for heating said solvent receptacle; a solution receptacle having a first opening in its upper portion receiving in liquid tight relationship therewith the lower end of said first pipe; a conduit extending from the lower end of said inner pipe to a point near the bottom of said solution receptacle.

2,660,519
FLUID HEATER
Lawrence J. McCarthy, Hawthorne, N. J., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware
Application April 23, 1948, Serial No. 22,782
2 Claims. (Cl. 23—288)

1. A furnace for conducting endothermic reaction having a heating chamber and a plurality of overhead suspended reaction tubes extending into said chamber below their point of suspension and being free to expand into said chamber below said suspension point, said tubes comprising an outer tube having a closure at its lower end, an inner tube nested therein and removably attached in its upper portion to the top of said outer tube, fluid openings for each tube in the upper portion thereof, the opening for the inner tube being outside the outer tube a flange on the inner lower surface of said outer tube, lugs on said tube spaced below said flange and a concentric foraminous cylinder slideably engaged at its upper end with the lower end of said inner tube and having a notched flange on its outside lower portion adapted to permit insertion of said cylinder past said lugs and upon rotation of said cylinder to be supported by said lugs and to abut on said flange on said outer tube.

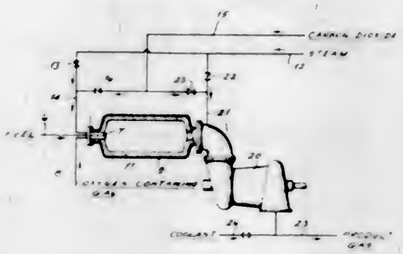


2,660,520
APPARATUS FOR CATALYTIC CONVERSION OF HYDROCARBONS
Sam R. Bethea, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Original application May 28, 1951, Serial No. 228,594. Divided and this application May 21, 1952, Serial No. 289,132
2 Claims. (Cl. 23—288)



1. Apparatus for converting hydrocarbons by contact with a liquid phosphoric acid catalyst, which comprises a ferrous metal vessel having at least an inlet and an outlet, a continuous copper liner in said vessel arranged adjacent and directly contacting an interior surface of said vessel, and a carbon liner arranged adjacent and directly contacting the copper liner to cover said copper liner, said carbon liner being of a substantially porous material to allow flow of phosphoric acid therethrough.

2,660,521
PROCESS FOR THE GENERATION OF CARBON MONOXIDE AND HYDROGEN
Charles F. Teichmann, Crestwood, N. Y., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware
Application May 18, 1950, Serial No. 162,645
3 Claims. (Cl. 48—196)



1. In the production of gas consisting mainly of hydrogen and carbon monoxide by the partial combustion of a fluid hydrocarbon with oxygen in a combustion gas turbine having a combustion section and an expansion section, the steps which comprise introducing a fluid hydrocarbon and an oxygen-rich gas containing at least 40% molecular oxygen into the combustion section of a combustion gas turbine at a pressure substantially above atmospheric pressure, effecting reaction of said hydrocarbon and oxygen in said combustion section at a substantial superatmospheric pressure under exothermic combustion conditions effective to maintain the temperature of said reaction zone in the range of 2,000° F. and above, and in relative proportions yielding a product gas stream consisting mainly of hydrogen and carbon monoxide at said elevated reaction temperature, and immediately thereafter reducing the temperature and pressure of said high temperature product gas stream through the range of from about 1600° F. to about 600° F. by expansion and cooling of said gas stream in said gas turbine.

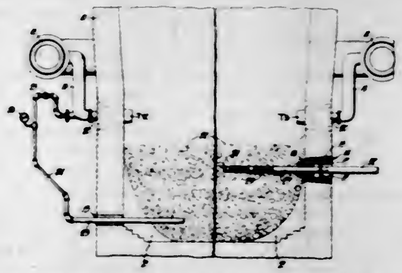
2,660,522
METHOD FOR THE MANUFACTURE OF PERMANENT MAGNETS
Charles Marquaire, La Tronche, France, assignor to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine, Paris, France, a corporation of France
No Drawing. Application May 18, 1951, Serial No. 227,091
2 Claims. (Cl. 75—0.5)

1. A method for the manufacture of permanent magnets formed of tin and iron, which comprises the steps of forming a mixed solution of a ferrous salt and a stannous salt, precipitating a mixture of iron and tin carbonates from said solution by means of a salt of the group consisting of the alkaline carbonates and bicarbonates, separating said mixture from the accompanying solution, decomposing said mixture into oxides through heating at a temperature lower than 450° C., reducing the oxides resulting from this decomposition at a temperature lower than 450° C., the respective proportions of ferrous and stannous salts in the initial solution being so chosen that the reduced final powder contains less than 20% of tin and agglomerating the so obtained metallic powder at a sufficiently low temperature for preventing the magnetic properties from disappearing.

2,660,523
METHOD OF PREPARING NICKEL POWDER WITH LARGE SURFACE AREA
Nicholas J. De Lollis, Arlington, Va., assignor to the United States of America as represented by the Secretary of Commerce
No Drawing. Application January 25, 1952, Serial No. 268,326
2 Claims. (Cl. 75—0.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)

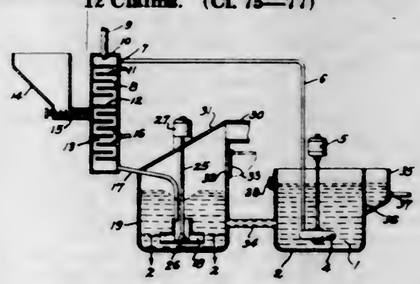
1. A process for preparing nickel powders with large surface areas which comprises the steps of heating nickel oxalate at 200 degrees centigrade until all the water of crystallization is driven off, thereby forming an anhydrous salt, and heating the anhydrous salt in a vacuum at a temperature in the range of 310 degrees centigrade to 330 degrees centigrade until decomposition is 99 to 100 percent complete.

2,660,524
METHOD OF BLOWING-IN BANKED BLAST FURNACES
William A. Abbett, Jr., and Floyd C. Diaz, Duluth, Minn., assignors to United States Steel Corporation, a corporation of New Jersey
Application December 17, 1952, Serial No. 326,554
5 Claims. (Cl. 75—41)



4. A method of starting a banked blast furnace comprising sealing all the tuyères, blowing-in air to the bottom part of the furnace through the iron notch, pressurizing the top part of the furnace to prevent escape of gases, and discharging the gases in a horizontal direction through the cinder notch.

2,660,525
METHOD OF EXTRACTING LEAD FROM ITS SULFIDES
Charles B. Foster, Mankayan, Mountain, Republic of the Philippines
Application January 22, 1952, Serial No. 267,557
12 Claims. (Cl. 75—77)



1. In a method of reducing lead from relatively high-grade undiluted lead sulfide ore, the successive steps comprising, forming a molten

bath of relatively pure lead, continuously circulating said molten bath of lead from a starting point throughout a series of chambers back to said starting point, during said circulation through a first chamber introducing into said molten bath an oxidizing gas containing a known quantity of oxygen in an amount substantially less than will oxidize the entire quantity of said lead in said molten bath, whereby a molten mixture comprising predetermined amounts of molten lead and lead oxide is formed, during said continuous circulation through a second chamber introducing into said molten mixture for reaction with said lead oxide amounts of finely-divided, relatively high-grade, undiluted lead sulfide ore substantially in proportions for a balanced equation in a reaction between said predetermined amount of lead oxide and the lead sulfide contained in said ore, whereby there ensues a chemical reaction resulting in the production of a molten mixture of molten lead and sulphur dioxide gas, removing said sulphur dioxide gas from said molten mixture, and then circulating a part of said lead back to said first chamber for recirculation back through said series of chambers and removing a part of said metal for recovery.

2,660,526

DIAZOTYPE REFLEX PHOTOPRINTING

Clifford E. Herrick, Jr., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 3, 1949, Serial No. 69,059
22 Claims. (Cl. 95—8)

1. A process for the production of reflex copies which comprises placing a translucent sheet of photoprinting material upon the surface of an original to be copied having a light-depolarizing surface with areas of differential reflecting power, said photoprinting material having a substantially non-diffusing light sensitive layer containing a dichroic light sensitive composition molecularly oriented in a linear direction; passing polarized light of a wavelength range toward which said light-sensitive composition exhibits dichroism, through said layer onto the original, said light vibrating in a direction for substantially maximum transmission through the dichroic layer; and developing the image formed by differential exposure of the light sensitive composition.

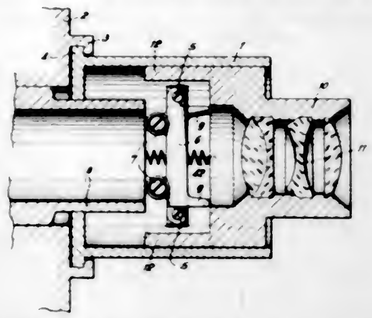
2,660,527

DEVICE FOR EXCHANGEABLE OBJECTIVES OF PHOTOGRAPHIC CAMERAS

Helmut Naumann, Braunschweig, Germany, assignor to Voigtlander, A. G., Braunschweig, Germany, a corporation of Germany

Application January 12, 1953, Serial No. 330,611
Claims priority, application Germany January 15, 1952
14 Claims. (Cl. 95—44)

1. A device for use in combination with exchangeable or substitute objectives of photographic cameras having a range finder coupled with means built-in in the camera, for sharp focusing of a standard objective having a predetermined focal length, said device comprising a mounting member for a substitute objective having a focal length different from that of the standard objective, said member being fixedly connected with the body of the camera, a movable member connected with a camera element adapted to be axially displaced, without rotary motion, for sharp focusing of the standard objective; at least one lever system arranged within said mounting member for transmitting motion of said movable member, at a modified scale, to at least one part of the substitute objective and causing axial displacement of the latter by



an amount, the ratio of which to the corresponding displacement of the standard objective, is approximately equal to the ratio of squares of the focal lengths of the substitute objective member to be displaced and that of the standard objective, respectively.

2,660,528

HYPERSENSITIZING PHOTOGRAPHIC FILM DEVELOPER

Bobbie J. Schultz, Hollywood, Calif.

No Drawing. Application March 25, 1952, Serial No. 278,493
3 Claims. (Cl. 95—88)

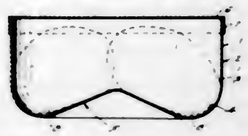
1. A photographic negative developer containing methylaminophenol sulfate, sodium sulfite, hydroquinone, sodium carbonate, potassium bromide, ammonia, 6-nitrobenzimidizole, and water and, in addition, formic acid functioning as an hypersensitizing agent for developing full images from latent images which, according to exposure rating of the film, are highly underexposed.

2,660,529

CONSUMER PACKAGE FOR FRESH FRUITS OR THE LIKE

Frank A. L. Bloom, Detroit, Mich.

Application October 26, 1945, Serial No. 624,834
3 Claims. (Cl. 99—171)



1. A consumer package for shipping, storage and display of perishable fruit and the like comprising a container, and a single layer of fruit arranged in series relation within the container, said container provided with a substantially circular bottom formed with a concave, annular, troughlike portion around the margin thereof, an upstanding, generally conical central portion disposed in substantially tangential relation to the inner edge of said troughlike portion, and a circular, substantially vertical surrounding wall arranged in substantially tangential relation to the outer edge of said troughlike portion, said fruit being supported in and arranged in series relation in said troughlike portion, and said troughlike portion having a radius of curvature substantially the same as a major curve of said fruit so as to conform to a substantial surface area of said fruit, said conical portion and said surrounding wall being disposed on opposite sides of said fruit and co-operating with said troughlike portion to support and confine the fruit in said container without bruising the same.

2,660,530

EGGS HAVING ARTIFICIAL SHELLS

David Adams, Concord, Mass.

Application June 16, 1949, Serial No. 99,398
4 Claims. (Cl. 99—177)



1. An individual egg having an artificial shell of flexible sheet material enclosing its yolk and albumen and shrunk into generally spherical closely confining relation to the yolk and albumen with the yolk intact and substantially uniformly surrounded by albumen.

2,660,531

PRODUCTION OF VITREOUS GLAZES OR ENAMELS FOR COATING METALS

Reginald Percy Fraser, Surrey, and Alfredo Luigi Cianchi, Hampstead, London, England

No Drawing. Application May 16, 1949, Serial No. 93,639
Claims priority, application Great Britain June 1, 1948
7 Claims. (Cl. 106—48)

1. A lead-free and fluorine-free vitreous enameling composition suitable for bonding to the surface of aluminum and aluminum base alloys, said composition having a fusion or maturing temperature below 600° C. and a coefficient of thermal expansion greater than

$$15.0\times10^{-6}$$

in the temperature range 10°–100° C., said composition consisting essentially of the following constituents calculated as mole percentages:

R_2O, 21–36%; RO, 17–30%
R_2O_3, 8–17%; SiO_2, 18–36%
RO_2, 0–15%

where R_2O represents oxides selected from the group consisting of the oxides of the elements Li, Na and K, RO represents oxides selected from the group consisting of oxides of the elements Ca, Sr and Ba, RO_2 represents opacifier oxides selected from the group consisting of the oxides of Ti, Zr and Sn, R_2O_3 represents oxides selected from the group consisting of the oxides of the elements B and Al.

2,660,532

NEUTRON ABSORBING GLASS

Laben M. Melnick, Hurd W. Safford, Kuan-Han Sun, and Alexander Silverman, Pittsburgh, Pa.

No Drawing. Application January 29, 1952, Serial No. 268,928
8 Claims. (Cl. 106—52)

8. Neutron absorbing glass melted from a batch supplying as essential components, in cationic per cent, from about 8 to 46 per cent of CdO, from about 10 to 40 per cent of SiO_2, from about 0 to 70 per cent of $BO_{1.5}$, about 10 per cent of CaF_2 and not over about 5 per cent of other oxides in amounts not productive of opacity or undesirable color, and the glass having a cadmium equivalent of from about 0.2 to 0.3 with respect to 0.025 e. v. thermal neutrons, and being colorless or only slightly colored before exposure to neutron radiation.

2,660,533

REFRACTORY AND ITS MANUFACTURE

Howard F. West and John H. Veale, Joliet, Ill., assignors to Illinois Clay Products Company, Joliet, Ill., a corporation of Illinois

No Drawing. Application February 23, 1950, Serial No. 145,911
6 Claims. (Cl. 106—56)

1. A refractory comprising in combination a clay mineral containing alumina and silica as its major constituents and 15 to 40% by weight particles of carbon bonded with acid aluminum sulphate, the balance being the aforesaid clay mineral.

2,660,534

BLAST FURNACE OPERATION

Howard F. West, Joliet, and John H. Veale, Coal City, Ill., assignors to Illinois Clay Products Company, Joliet, Ill., a corporation of Illinois

No Drawing. Application October 17, 1951, Serial No. 251,829
4 Claims. (Cl. 106—56)

4. A refractory brick comprising in combination 15 to 40% carbon granules and the balance fire clay and silica, the aforesaid constituents being bonded together by acid aluminum sulphate and aluminum phosphate formed by the reaction of 1 to 4% concentrated sulphuric acid and 2½ to 7% phosphoric acid.

2,660,535

BONDED ARTICLES AND THEIR MANUFACTURE

Howard F. West and John H. Veale, Joliet, Ill., assignors to Illinois Clay Products Company, Joliet, Ill., a corporation of Illinois

No Drawing. Application May 13, 1949, Serial No. 93,195
11 Claims. (Cl. 106—67)

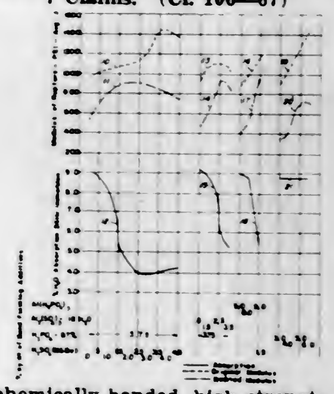
10. A chemically bonded, high strength, refractory brick consisting essentially of a refractory aggregate including clay bonded with a minor proportion of acid aluminum sulphate.

2,660,536

UNFIRED REFRACTORIES AND THEIR PREPARATION

Howard F. West, Joliet, and John H. Veale, Coal City, Ill., assignors to Illinois Clay Products Company, Joliet, Ill., a corporation of Illinois

Application May 21, 1951, Serial No. 227,348
7 Claims. (Cl. 106—67)



1. A chemically bonded, high strength refractory brick consisting essentially of a refractory aggregate including clay bonded with a minor proportion of not less than 1% acid aluminum sulphate and not less than 3% acid aluminum phosphate.

2,660,537
BONDED REFRACTORY AND ITS MANUFACTURE

Howard F. West and John H. Veale, Joliet, Ill., assignors to Illinois Clay Products Company, Joliet, Ill., a corporation of Illinois

No Drawing. Application February 23, 1950, Serial No. 145,912
2 Claims. (Cl. 106—68)

1. The method of making unfired silica brick which comprises mixing granular silica and concentrated sulphuric acid so as thoroughly to distribute the acid throughout the grains of silica, and then mixing the same with a quantity of clay, the ratio of the several constituents being 60 to 85% silica, 40 to 15% clay and 2 to 9% on the amount of clay of concentrated sulphuric acid, forming the mixture, and then heating the formed articles at temperatures substantially above 212° F. to form acid aluminum sulphate bonds and maintaining the temperature below the decomposition temperature of said sulphate bonds.

2,660,538
LIQUID COMPOSITION COMPRISING A LOWER ALKOXY SILANE

Harold Garton Emblem, St. Helens, England, Clifford Shaw, Johannesburg, Transvaal, Union of South Africa, and William Edwin Langrish-Smith, Burwash Common, England; said Emblem assignor to said Shaw and said Langrish-Smith

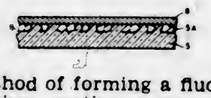
No Drawing. Application August 28, 1950, Serial No. 181,944. In Great Britain April 9, 1947
Section 1, Public Law 690, August 8, 1946
Patent expires April 9, 1967
10 Claims. (Cl. 106—287)

4. A liquid composition comprising a lower alkoxy silane characterized only by carbon-oxygen-silicon linkages, and a small proportion of an organic base having a pKa value greater than 7 and selected from the class consisting of alicyclic and saturated aliphatic organic bases having a carbon atom content of from 2 to 12 carbon atoms per molecule and having only carbon, hydrogen, oxygen and nitrogen atoms in the molecule.

2,660,539
METHOD FOR PRODUCING A FLUORESCENT SCREEN

Charles W. Putnam, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Original application June 19, 1948, Serial No. 34,060. Divided and this application February 25, 1950, Serial No. 146,373
3 Claims. (Cl. 117—33.5)

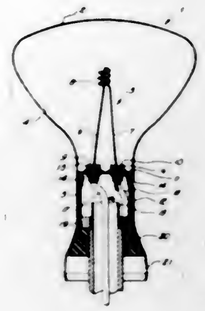


1. The method of forming a fluorescent screen which comprises coating a supporting member consisting of a mixture of 0% to 40% potassium oxide, 0% to 60% zinc oxide and 100% to 40% boric oxide with a thin dry layer of zinc sulphide, heating said member until said zinc sulphide is completely submerged beneath the surface of said member, then cooling said member and thereafter applying a layer of cesiated antimony to the surface of said glass

2,660,540
METAL VAPORIZER AND METHOD FOR VAPOR COATING

Walter J. Karash, Cleveland, and Alton G. Foote, Wickliffe, Ohio, assignors to General Electric Company, a corporation of New York

Application August 18, 1949, Serial No. 111,004
5 Claims. (Cl. 117—97)



4. The method of coating the interior of glass bulbs by vaporization which comprises preparing a vaporizer member by helically coiling a refractory metal overwind wire upon a refractory metal core wire, shaping the center portion of the resulting composite wire body into a convoluted form, electroplating said wire body with a vaporizable metal of lower vaporization temperature than that of the metal of said wire body and in a predetermined amount sufficient only to coat a single bulb, introducing the resulting vaporizer member into the interior of a bulb, passing an electric current through the vaporizer member to heat it to a temperature and for a time sufficient to vaporize substantially all the said vaporizable metal from the said composite wire body and to cause the said vaporizable metal to be deposited upon the interior surface of said bulb, and then removing said wire body from the coated bulb for re-use in coating another bulb.

2,660,541
METHOD OF TREATING WATER SOLUBLE SALT TO DECREASE CAKING AND RATE OF LEACHING BY GROUND WATER

William H. Rinkenbach, Rockaway, N. J., assignor of one-half to Trojan Powder Company, a corporation of New York

No Drawing. Application September 6, 1950, Serial No. 183,473
5 Claims. (Cl. 117—100)

1. In treating a water soluble salt to decrease caking before use and rate of leaching by ground water, the method which comprises applying to the salt in the form of granules an aqueous solution of an alkali metal silicate and a suspension therein of aluminum oxide powder, mixing the granules of the salt and applied solution and suspension, so that the granules are kept in motion, the applied materials are distributed over the surface of the granules, the suspended aluminum oxide powder remains on the said surface, and the silicate solution enters surface portions

of the granules, and maintaining the mixed materials in motion and at an elevated temperature until the silicate and aluminum oxide have reacted to form a protecting film over the individual granules of the said soluble salt.

2,660,542
FLAMEPROOFED ARTICLE AND METHOD OF MAKING SAME

George E. Walter, Baltimore, Irwin Hornstein, East Riverdale, and Clarence A. Sheld, Baltimore, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

No Drawing. Application November 26, 1948, Serial No. 62,235
5 Claims. (Cl. 117—136)

4. A process for flameproofing inflammable materials comprising contacting the materials to be flameproofed with a composition consisting essentially of a monomeric unsaturated partially-halogenated trialkenyl phosphate ester wherein the alkenyl radicals have from 3 to 5 carbon atoms each, and polymerizing the ester in situ on the material to be flameproofed; the halogen atoms present being selected from the class consisting of bromine and chlorine atoms.

2,660,543
FLAMEPROOFING POLYMERS

George E. Walter, Baltimore, Irwin Hornstein, East Riverdale, and Clarence A. Sheld, Baltimore, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

No Drawing. Application November 26, 1948, Serial No. 62,236
6 Claims. (Cl. 117—136)

1. A process for flameproofing inflammable materials comprising impregnating the material to be flameproofed with an after-halogenated partial polymerization product of an alkenyl phosphate having at least two alkenyl radicals of from 3 to 5 carbon atoms, the halogen atoms that are present being selected from the class consisting of bromine and chlorine atoms.

2,660,544
CLEANING SPARK PLUGS

Robert J. Rieckhoff, Riverdale, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 22, 1951, Serial No. 247,909
4 Claims. (Cl. 134—30)

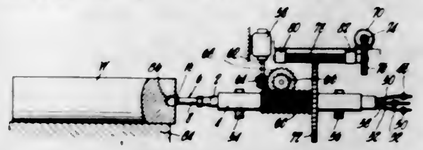
1. A process for cleaning engine spark plugs to remove deposits consisting essentially of lead oxide, lead oxybromide, and lead bromide which comprises removing grease and oil from the electrode surfaces of the plug, thereafter subjecting the electrode surfaces of the plug to the solvent action of a hot aqueous solution of ammonium citrate, washing the cleaned plugs with water, and drying the plugs.

2,660,545
METHOD FOR FORMING CENTERING CAVITIES IN BILLET ENDS

John W. Kelso, Clairton, Pa., assignor to United States Steel Corporation, a corporation of New Jersey

Application September 11, 1950, Serial No. 184,240
1 Claim. (Cl. 148—9.5)

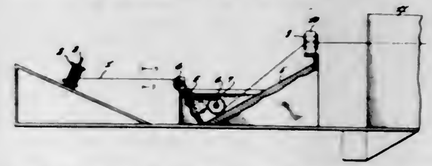
In a method of forming a conical centering cavity in the end of a billet, the steps including applying a heating flame to the area adjacent the center of the end of the billet, forming a substantially cylindrical cavity centrally of the heated end of the billet by directing an oxygen stream thereagainst, and then widening said cylindrical cavity into conical shape by delivering an oxygen stream from substantially the inner end of said cavity directed outwardly and rearwardly at an acute angle to the axis of the billet while at the same time effecting relative rotation about the longitudinal center line of the billet between the billet and said last named stream.



2,660,546
MONOFILAMENT THREAD AND METHOD OF MAKING SAME

Frank J. McCarthy, Freeport, N. Y., assignor to Holland Mfg. Co., Inc., New York, N. Y., a corporation of New Jersey

Application July 17, 1952, Serial No. 299,487
5 Claims. (Cl. 154—91)



1. The method of fusing a plurality of substantially untwisted textile filaments to produce a monofilament sewing thread having substantially no twist comprising treating said plurality of filaments with a resin composition comprising the reaction product of nylon, a phenol, and an aldehyde.

5. A sewing thread comprising a plurality of nylon subfilaments fused together with a nylon phenol formaldehyde composition to produce a unitary monofilament.

2,660,547
METHOD OF FORMING A PARTICLE COATING ON A METAL COMPONENT OF AN ELECTRIC DISCHARGE DEVICE

Robert Gibson Robertshaw, London, England, assignor to The General Electric Company Limited, London, England

No Drawing. Application February 8, 1952, Serial No. 270,747
4 Claims. (Cl. 154—96)

1. A method of forming a particle coating on a metal component of an electric discharge device, comprising the successive steps of preparing a suspension of finely divided particles with a binder in a solvent, pouring the suspension onto a smooth horizontal surface over which it spreads, allowing the solvent to evaporate so as to leave a thin solid film consisting of the particles and the binder, wetting an area of the surface of the metal component with a volatile solvent for the binder, causing at least a part of the film to adhere to the metal component by applying said part of the film to the wetted area, and heating the metal component to a temperature sufficient

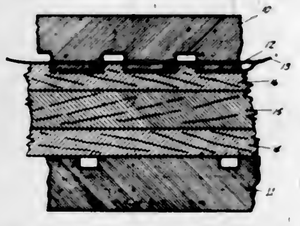
to cause the binder to be driven off and the particles to adhere firmly to the surface of the metal component.

2,660,548

METHOD FOR PRODUCING PLYWOOD WITH A PAPER-FACED PLATEN

Howard C. Soehner, Louisville, Ky., assignor to The Mengel Company, Louisville, Ky., a corporation of New Jersey

Application July 7, 1950, Serial No. 172,480
4 Claims. (Cl. 154—106)



1. In the manufacture of plywood having at least one facing sheet free from discolorations by the wet veneer method using a press having heated caul plates provided wtih spaced teeth, the process which comprises assembling a plurality of sheets of wood including at least one facing sheet of wet veneer with layers of glue between the sheets, placing a loose thin disposable sheet of kraft paper over the said facing sheet, pressing the resulting assembly under pressure sufficient to press the caul teeth into the veneer while heating the plates, and continuing the application of heat and pressure until the plies are united and the moisture content of the wet veneer has been reduced to an amount not substantially exceeding 8 per cent by weight and the secretions derived from the wet veneer have passed through the kraft sheet, then stripping off the kraft sheet leaving the facing sheet clean and free from secretions.

2,660,549

THERAPEUTIC GOLD-DIMERCAPTO REACTION PRODUCT

Ernst A. H. Friedheim, New York, N. Y.

No Drawing. Application July 13, 1948, Serial No. 38,545
7 Claims. (Cl. 167—68)

1. A therapeutically active reaction product of a soluble gold compound and an organic dimercapto compound selected from the group consisting of 2,3-dimercaptopropanol, 2,3-dimercaptopropionic acid, and dimercaptopropyl ethyl ether, said reaction product being soluble in water and propylene glycol, containing in the molecule two radicals of the dimercapto compound for 1 atom of gold and being obtained by reacting at least two mols of the dimercapto compound with one atom of gold at a pH higher than 7.

2,660,550

SECONDARY RECOVERY OF PETROLEUM OIL BY DESULFOVIBRIO

David M. Updegraff and Gloria B. Wren, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application August 27, 1949, Serial No. 112,836
4 Claims. (Cl. 195—3)

1. In the method for the recovery of petroleum oil from an oil-bearing earth formation by the injection of water through an input well to said formation, the improvement comprising admixing with said water prior to injection to said formation a culture of bacteria of the hydrocarbon-oxidizing species of the genus Desulfovibrio and a nutrient for said bacteria comprising molasses.

2,660,551

METHOD FOR THE PRODUCTION OF DEXTRAN OF RELATIVELY LOW MOLECULAR WEIGHT

Harold J. Koepsell, Henry M. Tsuchiya, and Nison N. Hellman, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application March 11, 1952, Serial No. 276,033
7 Claims. (Cl. 195—31)
(Granted under Title 35, U. S. Code (1952), sec. 266)

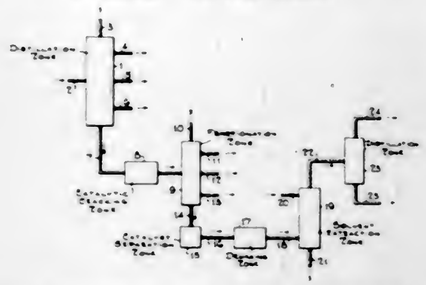
1. The method comprising subjecting an aqueous solution of sucrose having a concentration within the range of 25 grams to 75 grams per 100 ml. of solution to the action of a dextransucrase enzyme, thereby to cause synthesis of dextran of a relatively low molecular weight and recovering said low molecular weight dextran from the reaction medium.

2,660,552

COMBINATION PROCESS FOR PRODUCING LUBRICATING OILS

Forrest H. Blanding, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application September 30, 1950, Serial No. 187,709
4 Claims. (Cl. 196—14.42)



1. The process of producing a lubricating oil comprising the steps of: catalytically cracking a gas oil feed stock boiling in the range of about 650° to 1100° F., fractionating an oil fraction from the cracked products boiling in the range of about 700° to 1100° F., and thereafter contacting said fraction with a selective solvent for aromatic compounds to remove aromatic compounds from the said fraction, said process including the step of dewaxing the said fraction after the catalytic cracking step, whereby a high viscosity index lubricating oil is obtained.

2,660,553

WAX COMPOSITION AND PROCESS FOR PRODUCING WAX

William T. Knox, Jr., Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application February 23, 1951, Serial No. 212,295
5 Claims. (Cl. 196—17)

1. A process for producing a moderately hard flexible wax comprising the steps of catalytically

cracking a gas oil feed stock boiling in the range of about 650–1100° F., fractionating an oil fraction from the cracked products boiling in the range of about 700–1100° F., selectively remov-



ing aromatic compounds from the said oil fraction, and thereafter segregating wax from the said fraction remaining after selective removal of aromatic compounds including the step of deoiling the said wax.

2,660,554

BRIGHT GOLD AND GOLD ALLOY PLATING BATHS

Barnet D. Ostrow, Brooklyn, N. Y.

No Drawing. Application November 10, 1950, Serial No. 195,139
5 Claims. (Cl. 204—43)

1. An electrolytic bath for plating a metallic material selected from the group consisting of gold and gold-base alloys comprising an aqueous solution of aurous cyanide having therein a sufficient amount of an amine taken from the class consisting of alkylene- and alkylol-amines having 1 to 12 carbon atoms to produce a brighter deposit than is obtained by plating from said bath in the absence of said substance, and containing about 1.5 to 2.0 grams of theoretical free alkali metal cyanide, the pH being from about 8.0 to about 11.5, whereby heavy gold deposits which do not require burnishing are obtainable by electrolytic deposition.

2,660,555

PROCESS OF AND ELECTROLYTE FOR REFINING COPPER

John H. Schloen and Kurt Ekler, Montreal, Quebec, Canada, assignors to Canadian Copper Refiners Limited, Montreal East, Quebec, Canada, a corporation of Canada

No Drawing. Application December 20, 1950, Serial No. 201,874
4 Claims. (Cl. 204—108)

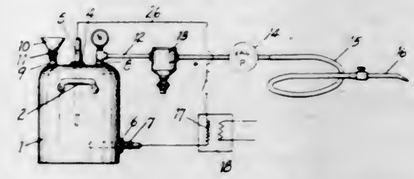
3. In the process of commercially refining copper by electrolysis, using an electrolyte comprising an aqueous solution of sulphuric acid, the step of substantially continuously adding to the electrolyte an aqueous medium containing glue and an aqueous medium containing the hydrolyzed product of the reaction of a purified mixture of predominately aliphatic hydrocarbons having an initial boiling point by the A. S. T. M. method of at least 250° C. and a dry point not greater than 360° C., a Saybolt viscosity of 32 to 52 seconds at 100° F., specific gravity of 0.7610 to 0.8200 at 15.5° C. and a refractive index of 1.4250 to 1.4500 at 20° C., with a gaseous mixture of sulphur dioxide and chlorine, each at the rate of about 0.6 to about 0.7 ounce of glue and of said hydrolyzed product respectively per 1,000 pounds of copper deposited on the cathodes.

2,660,556

ELECTRIC ARC PRODUCTION OF COMBUSTIBLE GASES

Donald G. Butler, Millersburg, Ohio

Application September 8, 1952, Serial No. 308,498
9 Claims. (Cl. 204—171)



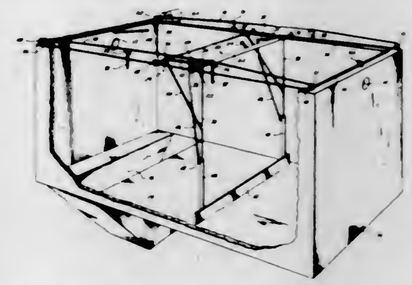
9. The method of producing an inflammable gas which comprises the steps of floating a mixture of kerosene and finely divided manganese dioxide on a solution of water, aluminum chloride, metallic hydroxide and a detergent, the two liquids being retained in an electrically insulating tank, electrifying the water solution by an electrode immersed therein, immersing a second electrode in said kerosene to near the level of the water, applying voltage in excess of 3000 volts between said electrodes to create an arc from said second electrode to said water, withdrawing combustible gases created by the arc and conducting the gas thus formed to a burner.

2,660,557

APPARATUS FOR REMOVING SOLIDS FROM LIQUIDS IN SETTLING TANKS AND THE LIKE

Richard L. Knowlton, Fort Worth, Tex., assignor to Texas A. & M. Research Foundation, College Station, Brazos County, Tex., a private corporation

Application April 16, 1952, Serial No. 282,660
8 Claims. (Cl. 210—3)



1. Apparatus for separating solids from liquids in settling tanks and the like comprising, a carriage reciprocal along the tank, means for reciprocating the carriage along the tank, a sleeve rotatably secured to the carriage, spaced arms extending downwardly from such carriage, carrier arms telescopically secured to the lower portion of such first mentioned arms, such carrier arms adapted to telescope longitudinally of such first mentioned arms, a scraper flight secured to the lower portion of such carrier arms and adapted to scrape solids settled on the bottom of the tank, a pair of arms rigidly secured to and extending forwardly from such sleeve, links pivotally secured to and extending upwardly and forwardly from said carrier arms and pivotally secured to free ends of such pair of arms, such links being bowed backwardly thereby providing a gravitational lock when the pair of arms are

extending upwardly in substantially vertical position, and means on such sleeve engageable by means disposed at each end of the tank to rotate the sleeve at one end of the tank in one direction for raising such pair of arms to a substantially vertical position and at the other end of the tank in the other direction for lowering such pair of arms thereby raising and lowering the scraper flight.

2,660,558

METHOD FOR THE PURIFICATION OF WATER BY ION EXCHANGE

Walter Juda, Cambridge, Mass., assignor to Ionics, Incorporated, Cambridge, Mass., a corporation

Application January 15, 1949, Serial No. 71,178
4 Claims. (Cl. 210—24)



3. The method of treating brackish waters containing a substantial proportion of alkaline earth metal salts comprising passing the water through a "calcium exchanger" wherein alkaline earth metals are removed and replaced by cations selected from the group consisting of alkali metals and ammonium ions, then through a hydrogen exchanger wherein the alkali metal and ammonium ions are removed and replaced by hydrogen ions, and then through an anion exchanger wherein the acids are removed from the water until said exchangers are at least partially exhausted, and thereafter regenerating said exchangers by passing an aqueous solution of a regenerant selected from the group consisting of alkali metal and ammonium hydroxide and carbonate through the anion exchanger in a direction opposite to that in which the water flowed therethrough during the exhaustion thereof and so long as an effluent free of both carbonate and hydroxide is discharged therefrom, then passing said effluent through the calcium exchanger to regenerate same, and passing an aqueous acid solution through the hydrogen exchanger to regenerate it.

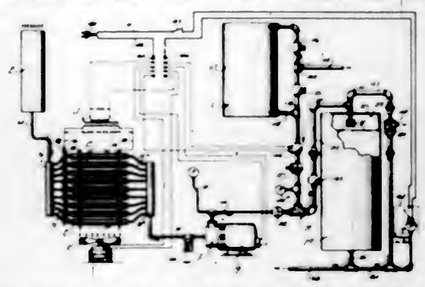
2,660,559

METHOD AND APPARATUS FOR THE PURIFICATION OF LIQUIDS

Nathaniel S. Prime, Frederick, Md., assignor to Maryland Laboratories, Incorporated, Frederick, Md., a corporation of Maryland

Application August 31, 1949, Serial No. 113,432
9 Claims. (Cl. 210—27)

5. Apparatus for the purification of liquids, comprising an ozone generator, a compressor for compressing the ozone as received from the generator, means for preventing oxidation and destruction of the parts of the compressor as a result of coming into travel contact with the ozone, an injector, means for passing a body of liquid to be purified into the injector under



super atmospheric pressure, and means for discharging the super atmospheric pressurized ozone from the compressor in a high velocity liquid atomizing wholly gaseous jet stream into the liquid to be purified within the injector.

2,660,560

MEANS AND METHOD FOR THE ADDITION OF INSOLUBLE COMMINUTED SOLIDS TO LIQUIDS FLOWING IN PIPES

Joseph A. Pickard, Hounslow, England, assignor to The Metafiltration Company Limited, Hounslow, England, a British company

Application October 31, 1949, Serial No. 124,546
Claims priority, application Great Britain November 9, 1948
4 Claims. (Cl. 210—28)



1. An apparatus for the controlled addition of insoluble comminuted solid materials to a liquid channel, comprising in combination; a pipe through which the liquid flows, a closable container formed with an outlet at the base thereof; a T junction pipe connected by the leg thereof to said container outlet and connected by its other two branches into the pipe supplying liquid; an adjustable valve arranged in the said leg of the junction pipe; and a partition arranged longitudinally in said junction pipe and terminating at a point near the outlet of said valve to create turbulence in liquid flowing past said valve when open, said partition being transversely disposed in the pipe and being arranged to separate the space within said junction pipe into two longitudinal passages, one leading from one branch of said junction pipe to a point immediately below said valve outlet and the other from said point to the other branch of said junction pipe.

2,660,561

METHOD OF TREATING DRILLING FLUIDS TO REDUCE WATER LOSSES

Thomas E. Watkins, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application August 28, 1950, Serial No. 181,913
16 Claims. (Cl. 252—8.5)

1. A method of treating an aqueous drilling fluid to reduce the water loss of said drilling fluid comprising adding thereto karaya gum which has been previously heated in the dry state at a temperature of at least about 90° C. but not above about 100° C. and for a time not less than about that given by the expression $T=28-.2t$, where T is the time in hours and t is the temperature in degrees centigrade.

2,660,562

LUBRICANTS

William N. Axe and William B. Whitney, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application March 26, 1951, Serial No. 217,669
45 Claims. (Cl. 252—33)

11. A lubricating oil containing in solution from 0.1 to 25 weight per cent of an oil-soluble guanidine salt, of an organic sulfonic acid, selected from the group consisting of a synthetic alkyl aryl sulfonic acid and a petroleum sulfonic acid.

27. As a new class of compositions, guanidine petroleum sulfonates containing more than 20 carbon atoms in the molecule.

2,660,563

MINERAL OIL CONTAINING SUBSTITUTED POLYOLEFINS

Fred W. Banes and Samuel B. Lippincott, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 28, 1949, Serial No. 107,368
11 Claims. (Cl. 252—56)

1. A composition comprising a mineral oil containing from 5.0% to 0.10% of a modified polymer of a multiolefin, said polymer having a substantial proportion of its original unsaturated carbon to carbon bonds substituted by the structure



where X and Y are each selected from the group consisting of —OR, and



R being an alkyl radical of from 10 to 20 carbon atoms.

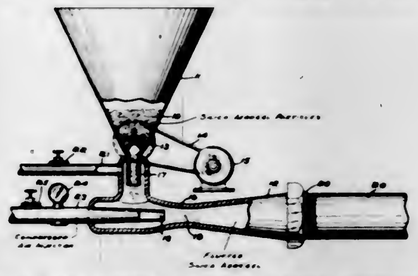
2,660,564

METHOD OF REDUCING THE DENSITY OF AEROGELS AND SIMILAR MATERIALS

Walter M. Davis, Jamaica Plain, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application August 27, 1948, Serial No. 46,504
5 Claims. (Cl. 252—62)

1. A method of reducing the apparent density of a silica aerogel having an apparent density above about 5.5 pounds per cubic foot which consists in feeding said silica aerogel at the rate of 50 to 200 pounds per hour into an air-jet ejector having a constricted throat with a minimum diameter between about 1 and 6 inches, and simultaneously forcing said areogel together with air at atmospheric pressure through the constricted throat of said ejector by means of a high velocity air stream, said air stream being generated by



passing compressed air at a gauge pressure of about 50 to 125 pounds per square inch through a nozzle in said ejector, said air stream being introduced at a point just prior to the constricted throat in said ejector, and separating the aerogel thus treated from the air stream and collecting the separated aerogel.

2,660,565

MANGANESE ACTIVATED CADMIUM LITHIUM SILICATE PHOSPHOR

Alfred Hamilton McKeag, North Wembley, England, assignor to General Electric Company, a corporation of New York

No Drawing. Application April 30, 1952, Serial No. 285,321
Claims priority, application Great Britain June 8, 1951
6 Claims. (Cl. 252—301.6)

1. A cadmium-lithium silicate luminescent material wherein the CdO and Li_2O are present in approximately equal molecular proportions and the proportion of SiO_2 is such that the ratio

$$(CdO+Li_2O):SiO_2$$

is in the range of about 1:2 to 3:1, and manganese activator in a proportion between about 0.01% and 5% by weight of the material.

2,660,566

ELECTROLUMINESCENT ZINC SULFIDE PHOSPHOR

Herman C. Froelich, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

No Drawing. Application August 29, 1952, Serial No. 307,176
5 Claims. (Cl. 252—301.6)

4. A copper-activated zinc sulphide phosphor characterized by orange-red emission induced by firing a mixture of zinc sulphide and about .01% to 1% by weight of copper at a temperature of approximately 1100° C. in an atmosphere of hydrogen sulphide.

2,660,567

WATER-DISPERSIBLE METAL SOAP COMPOSITIONS

Joseph Cunder, East Orange, and Francis J. Licata, West Caldwell, N. J., assignors to Nopco Chemical Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application December 11, 1947, Serial No. 791,153
20 Claims. (Cl. 252—311)

1. As a new composition of matter, a solid comprising an intimate mixture of a water-insoluble

soap of a saturated fatty acid containing from 10 to 22 carbon atoms and an alkylolamide, said alkylolamide being prepared by substantially completely amidifying an alkylolamine containing from 2 to 7 carbon atoms, each molecule of said amide containing at least one fatty acyl radical containing from 8 to 22 carbon atoms, said composition of matter being characterized by the property of being readily dispersible in aqueous media and adapted to form free-flowing concentrated aqueous dispersions with aqueous media.

2,660,568

WATER-DISPERSIBLE METAL SOAP COMPOSITIONS

Joseph Cunder, East Orange, and Francis J. Licata, West Caldwell, N. J., assignors to Nopco Chemical Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application December 11, 1947, Serial No. 791,154

20 Claims. (Cl. 252—311)

3. As a new composition of matter, a solid comprising an intimate mixture of a water-insoluble metal stearate and a sulfated aliphatic alcohol containing from 8 to 22 carbon atoms, said composition of matter being characterized by the property of being readily dispersible in aqueous media and adapted to form free-flowing concentrated aqueous dispersions with aqueous media.

2,660,569

HYDROGEN CHLORIDE GAS HARDENING OF METAL OXIDE POWDER

Otto Reitlinger, Kew Gardens, N. Y.

No Drawing. Application September 26, 1949, Serial No. 117,941

6 Claims. (Cl. 252—441)

1. A method of forming porous coherent metal oxide granules comprising the step of causing gaseous hydrogen chloride and oxygen to diffuse slowly through a column containing powdered oxides of metals selected from the group consisting of titanium, vanadium, chromium, manganese, iron, cobalt and copper in the absence of binding agents at temperatures between 300 and 700° C. until the powder particles cohere to each other and then disintegrating said coherent column into granules of smaller size.

2,660,570

IMPRESSION MATERIAL

Bernardo E. Taylor, New York, N. Y., assignor to Max E. Michaelson and Jack Gold, both of New York, N. Y.

No Drawing. Application November 28, 1951, Serial No. 258,754

6 Claims. (Cl. 260—27)

1. An impression material, including, glycerol ester of hydrogenated rosin comprising approximately 48 to 60 parts by weight, triethylene glycol ester of hydrogenated rosin comprising approximately 24 to 36 parts by weight, paracumarone-indene resin comprising approximately 10 parts by weight, a dye for providing a distinctive color to the material and having a relatively small percentage by weight, and a filler for providing body to the material and having a relatively small percentage by weight.

2,660,571

FIBER-SPINNING COMPOSITIONS

George E. Ham, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application May 24, 1951, Serial No. 228,129

16 Claims. (Cl. 260—29.6)

1. A new composition of matter comprising a homogeneous, miscible mixture of a polymer of a monomeric mixture of which acrylonitrile is at least 85 per cent by weight of the total monomer content, homogeneously dispersed to the extent of from five to 35 per cent in a mixture of from 70 to 99 per cent of chloroacetonitrile and from one to 30 per cent of water.

2,660,572

RESINIFICATION OF AROMATIC HYDROCARBONS

Charles F. Feasley, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application February 11, 1950, Serial No. 143,839

1 Claim. (Cl. 260—67)

A polymeric material having a low power factor produced by a method which comprises heating an aromatic petroleum stock boiling within the range of between about 360° F. and about 560° F. with formaldehyde and an acid activated clay of the Montmorillonite type as the sole essential condensing agent, in a weight proportion of about 40 parts:about 5 parts:7.5 parts, respectively, at a temperature of about 250° F., for about 45 minutes, to obtain a reaction product; separating the liquid portion of the reaction product; treating said liquid portion of the reaction product with activated clay of the Montmorillonite type at about 180° F.; separating the thus treated liquid portion of the reaction mixture and subjecting it to distillation under reduced pressure, thus obtaining as the residue a polymeric material having a kinematic viscosity at 210° F. of about 836 centistokes, a ring and ball meriting point of about 132° F. and a power factor at 60° C. of 0.07 per cent loss and at 100° C. of 0.40 per cent loss.

2,660,573

SYNTHETIC RESIN AND METHOD OF MAKING THE SAME FROM FURACROLEIN, FURFURAL, AND FORMALDEHYDE

Willard J. Lantz, Emmaus, and Joseph M. Walters, Allentown, Pa., assignors to Electro-Chemical Engineering & Mfg. Co., Emmaus, Pa., a corporation of Delaware

No Drawing. Application March 29, 1951, Serial No. 218,287

15 Claims. (Cl. 260—67)

1. As a novel resin the condensation product of furacrolein, furfural and formaldehyde, the mol ratio of furacrolein to furfural being between about 1 to 1 and about 10 to 1, and the mol ratio of furacrolein plus furfural to formaldehyde being between about 0.5 to 1 and about 1.6 to 1.

2,660,574

PROCESS FOR THE PRODUCTION OF POLYURETHANES

Wilford Donald Jones and Samuel B. McFarlane, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application August 4, 1950, Serial No. 177,763

29 Claims. (Cl. 260—77.5)

5. Process for the production of polyurethanes, which comprises forming a mixture whose aqueous solution would have an initial pH below 7 and containing at least one organic diamine acid salt free from reactive groups other than amino groups and having at least one hydrogen atom attached to each nitrogen atom and at least one organic bis-chloroformate free from reactive groups other than chloroformate groups, and adding an alkaline material incapable of reacting with the bis-chloroformate to form a nitrogen to carbon linkage to the mixture in an amount sufficient so that its aqueous solution would have a pH above 8 and effect the polymerization of the diamine and bis-chloroformate.

2,660,575

POLYMERIZATION PROCESS FOR POLYURETHANES UTILIZING WATER, A WATER MISCIBLE SOLVENT, AND A WATER IMMISCIBLE SOLVENT

Wilford Donald Jones and Samuel B. McFarlane, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application October 2, 1950, Serial No. 188,067

17 Claims. (Cl. 260—77.5)

1. In a process for the production of polyurethanes by the polymerization of a bis-chloroformate containing at least 2 carbon atoms between the chloroformate groups and a diamine containing at least 2 carbon atoms between the amino groups, the step of carrying out the polymerization in a medium comprising a water-miscible organic inert solvent having a boiling point not higher than 244.5° C. and a solution of the bis-chloroformate in a water-immiscible solvent dispersed in an aqueous solution of the diamine.

2,660,576

MONOAZODYESTUFF

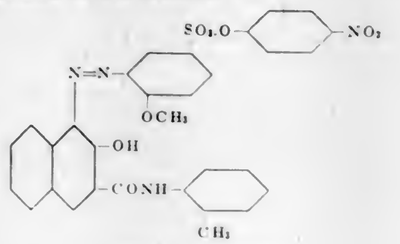
Werner Schleifenbaum, Leverkusen-Bayerwerk, Germany, assignor to Farbenfabriken Bayer, Leverkusen, Germany

No Drawing. Application August 21, 1951, Serial No. 242,997

Claims priority, application Germany August 23, 1950

1 Claim. (Cl. 260—203)

As a new compound the water insoluble monoazodyestuff of the formula:



2,660,577

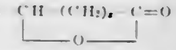
DERIVATIZATION OF STARCH WITH LACTONES

Ralph W. Kerr, Riverside, Ill., and William A. Faucette, Stoughton, Wis., assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application May 27, 1950, Serial No. 164,863

27 Claims. (Cl. 260—233.5)

1. Process for preparing starch derivatives, comprising reacting a substance from the group consisting of starch, chemically modified starch, thin boiling starch, pre-gelatinized starch, and dextrin with a lactone of an hydroxy-carboxylic acid, said lactone corresponding to the general formula



wherein R represents a radical from the group consisting of hydrogen, aliphatic hydrocarbon radicals, and substituted aliphatic hydrocarbon radicals; and x represents a whole number from the group consisting of one and two.

2,660,578

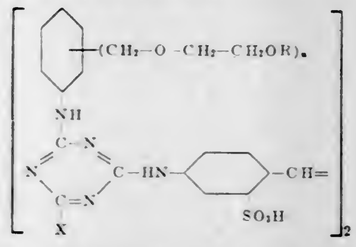
TRIAZINE FLUORESCENT AGENTS

William W. Williams, Easton, Pa., and William E. Wallace, Rensselaer, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 23, 1952, Serial No. 267,921

6 Claims. (Cl. 260—247.1)

1. Fluorescent agents which in the form of the free acid have the formula



wherein R represents a member of the group consisting of hydrogen, hydroxy alkyl and lower alkyl, n represents one of the integers 1 and 2, and X represents a member of the group consisting of halogen, secondary dialkylamino, secondary N-lower alkyl aryl amino, primary monocyclic aryl amino, lower alkoxy, monocyclic aryloxy, morpholino and amino pyridine.

2,660,579

SYNTHESIS OF 2-AMINO-4,6-DIMETHYL PYRIMIDINE

Theodore F. Scholz, Somerville, N. J., and Gordon M. Smith, Oak Ridge, Tenn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 7, 1951, Serial No. 235,675

6 Claims. (Cl. 260—256.4)

1. A process of producing 2-amino-4,6-dimethyl pyrimidine which comprises reacting a guanidine salt with acetyl acetone in an aqueous alkaline medium.

2,660,580

REDUCTION OF QUINONE COMPOUNDS

Isaiah Von, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 3, 1951, Serial No. 204,279

18 Claims. (Cl. 260—274)

1. A process of reducing a quinone by treating it in an organic solvent with hydrogen sulfide and a metal chosen from the group consisting of nickel, copper and silver, the amount of the

metal being sufficient to effect substantial reduction of the quinone.

5. A process according to claim 1 in which the leuco quinone obtained is reacted without isolation with a sulfur trioxide addition product of a tertiary amine to convert it to its sulfuric acid half-ester.

2,660,581

SEPARATION OF AROMATIC AMINES

Alfred G. Hill, Martinsville, Eugene C. Medcalf, Bound Brook, and William E. Sisco, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application April 6, 1950, Serial No. 154,364
18 Claims. (Cl. 260—283)

1. A method of separating aromatic amines having different carbon to hydrogen ratios and containing not more than two rings, which comprises contacting a mixture of said aromatic amines with a mixture of immiscible organic solvents for said aromatic amines, one of said immiscible solvents being a dinitrile solvent having the following formula

NC—Alk—X—Alk—CN

in which Alk is a lower alkylene radical and X is selected from the group consisting of oxygen, sulfur, NH and N-lower alkyl and the other immiscible solvent being a saturated hydrocarbon solvent, until the mixture of aromatic amines is partitioned between the said immiscible solvents, separating the immiscible solvent layers so formed, recovering the aromatic amine having the higher carbon to hydrogen ratio from the separated dinitrile solvent layer and separately recovering the aromatic amine having the lower carbon to hydrogen ratio from the separated hydrocarbon solvent layer.

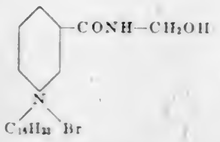
2,660,582

QUATERNARY NICOTINIC ACID AMIDE DERIVATIVES AND PRODUCTION THEREOF

Hans Suter, Dorflingen, Fritz Stocker, Feuerthalen, and Hans Zutter, Schaffhausen, Switzerland, assignors to Cilag Limited, Schaffhausen, Switzerland, a company of Switzerland

No Drawing. Application June 30, 1950, Serial No. 171,538
1 Claim. (Cl. 260—295.5)

The new chemical compound N1-bromcetyl-N-hydroxymethyl-nicotinic acid amide of the formula:



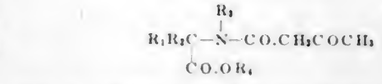
2,660,583

PRODUCTION OF PYRROLINONES

Richard Norman Lacey, Hull, England, assignor to British Industrial Solvents Limited, London, England

No Drawing. Application January 21, 1952, Serial No. 267,501
Claims priority, application Great Britain January 30, 1951
6 Claims. (Cl. 260—326.5)

1. A process for the production of a pyrrolinone which comprises reacting an acetoacetic acid amide of the structural formula



with a Claisen condensation agent whereby an alcohol group is eliminated, wherein said structural formula R_1, R_2 and R_3 are members of the group consisting of aryl, aralkyl, alicyclic and lower alkyl groups and hydrogen atoms and where R_4 represents a lower alkyl group.

2,660,584

PROCESS FOR PREPARING 17-CARBALKOXY STEROIDS

Alfred L. Wilds, Madison, Wis., assignor to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

No Drawing. Application July 10, 1951, Serial No. 236,056
8 Claims. (Cl. 260—397.1)

1. In the process of introducing a carbalkoxy group at the 17-position in a steroid, the improvement which comprises in reacting a steroid characterized by the $\Delta^{14,15}$-16-keto group with an alkali metal condensing agent and a di-lower-alkyl carbonate.

2,660,585

17-ALPHA-HYDROXY-4-PREGNENE-3,6,20-TRIONE AND PROCESS

Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 1, 1952, Serial No. 296,722
3 Claims. (Cl. 260—397.4)

1. 17α-hydroxy-4-pregnene-3,6,20-trione.

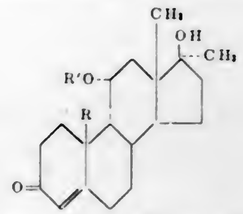
2,660,586

11 ALPHA-HYDROXY - 17 ALPHA-METHYL-TESTOSTERONES AND ESTERS THEREOF

Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 1, 1952, Serial No. 296,727
7 Claims. (Cl. 260—397.4)

1. A compound represented by the graphical formula:



wherein R is selected from the radicals consisting of hydrogen and methyl, and R' is selected from the radicals consisting of hydrogen and hydrocarbon-carboxylic acyl radical containing less than nine carbon atoms.

2,660,587

8-HYDROXY-4-ANDROSTENE-3,17-DIONE

Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 1, 1952
Serial No. 296,733
1 Claim. (Cl. 260—397.4)

8-hydroxy-4-androstene-3,17-dione.

2,660,588

NEUTRALIZATION OF SULPHONATED ORGANIC ESTERS

Arthur Ira Gebhart, Union, and Joseph Edward Mitchell, East Rutherford, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application August 6, 1949, Serial No. 109,074
3 Claims. (Cl. 260—400)

1. The process of neutralizing acidic organic sulphonate material containing a compound having an ester linkage in the molecular structure which is hydrolyzable comprising carrying out the neutralization at a temperature above 20° C. by bringing said organic sulphonate material into contact with a neutralizing basic material which reacts therewith generating a gas producing a foamy mass containing organic and inorganic salts, said basic material comprising finely divided particles of an alkali carbonate suspended in a vehicle comprising water and organic solvent, said water being present in said vehicle in an amount within the range of about 15% to about 50% by volume.

2,660,589

ELIMINATION OF OBJECTIONABLE ODORS FROM SOAP

Frederick J. Squire, Milton, and Peter D. Stengel, Belmont, Mass., assignors to Lever Brothers Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 7, 1950, Serial No. 189,054
4 Claims. (Cl. 260—419)

3. A process of preparing soap compositions which are substantially free of objectionable odors and have good color which comprises bleaching water-soluble fatty acid soap with a hydrosulfite, whereby the soap has a tendency to acquire an objectionable odor and a greyish color, and then treating the soap with a water-soluble inorganic zinc compound in an amount to substantially eliminate the odor and improve the color thereof.

2,660,590

FRACTIONATION OF FATTY MATERIALS

John T. Dickinson, Basking Ridge, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application May 16, 1947, Serial No. 748,573
5 Claims. (Cl. 260—428.5)

1. A process for obtaining a desired extract fraction from a fatty material by extraction with a solvent having a critical temperature not substantially higher than 450° F., which includes the steps of: contacting said fatty material with an extracting liquid comprised of a solvent-oil mixture at a temperature within the range near the critical temperature in which solubility decreases as temperature increases, and under liquefying pressure, to fractionate said fatty material into a raffinate phase and an extract phase containing the desired extract; withdrawing said extract phase and reducing the ratio of pressure to temperature thereof, while substantially preventing vaporization of said solvent, to reduce the solvent power of said solvent and fractionate said extract phase into a solvent-rich liquid phase and an oil-rich liquid phase containing the desired extract; increasing the ratio of pressure to temperature of said solvent-rich phase to increase the solvent power thereof, while maintaining said phase in liquid condition; and returning said solvent-rich phase to said contacting step to serve as said extracting liquid therein.

2,660,591

STABLE LEAD ALKYL COMPOSITIONS AND A METHOD FOR PREPARING THE SAME

George Calingaert, Geneva, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 18, 1952, Serial No. 277,281
7 Claims. (Cl. 260—437)

1. A method of inhibiting the decomposition of an alkyllead compound comprising incorporating therewith a thermal stabilizer selected from the class consisting of alkyl nitro compounds, alkyl nitrites, alkyl nitrates and an aryl azo compound selected from the group consisting of azobenzene, 2,2'-azonaphthalene, and 4-benzeneazo-1-naphthylamine.

2,660,592

STABLE LEAD ALKYL COMPOSITIONS AND A METHOD FOR PREPARING THE SAME

George Calingaert, Geneva, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of New York

No Drawing. Application March 18, 1952, Serial No. 277,282
7 Claims. (Cl. 260—437)

1. A method of inhibiting the decomposition of an alkyllead compound comprising incorporating therewith a thermal stabilizer selected from the class consisting of glyceryl monostearate, glycol dilaurate, 2 - methyl - 2,4 - pentanediol, ethylene bromohydrin, furfuryl alcohol, ethynylcyclohexanol, tiglic alcohol, α-terpineol, crotonaldehyde, 2-amino-2-methyl-1-propanol, 2-ethyl-1,3-hexanediol and furfural.

2,660,593

STABLE LEAD ALKYL COMPOSITIONS AND A METHOD FOR PREPARING THE SAME

George Calingaert, Geneva, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 18, 1952, Serial No. 277,283
17 Claims. (Cl. 260—437)

1. A method of inhibiting the decomposition of an alkyllead compound comprising incorporating therewith a thermal stabilizer selected from the class consisting of alloxan, p-nitrobenzoic acid, oleic acid, maleic anhydride, aluminum oleate, phthalic anhydride, aconitic acid, chlorophyll, semi-carbazide hydrochloride and cinnamic acid dibromide.

2,660,594

STABLE LEAD ALKYL COMPOSITIONS AND A METHOD FOR PREPARING THE SAME

George Calingaert, Geneva, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 18, 1952, Serial No. 277,284
7 Claims. (Cl. 260—437)

1. In a process of producing tetraethyllead by reacting a sodium-lead alloy with ethyl chloride and separating the thus produced tetraethyllead from the reaction mass by steam distillation, the step which comprises conducting said steam distillation in the presence of a thermal stabilizer selected from the class consisting of styrene dibromide, stearyl iodide, allyl isothiocyanate, triphenylchloromethane, hexachloroethane, iodoform, ethylene dibromide and ethyl thiocyanate.

2,660,595

STABLE LEAD ALKYL COMPOSITIONS AND A METHOD FOR PREPARING THE SAME

George Calingaert, Geneva, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 24, 1952, Serial No. 278,294
23 Claims. (Cl. 260—437)

1. A method of inhibiting the decomposition of an alkyllead compound comprising incorporating therewith a thermal stabilizer selected from the class consisting of allo-ocimene, butadiene, diamylene, dipentene, heptene, trimethylethylene, cyclohexene, dicyclopentadiene, allyl iodide, chloroprene, hexachloropropylene, di-isobutylene, tetramethylethylene and tribromoethylene.

2,660,596

STABLE LEAD ALKYL COMPOSITIONS AND A METHOD FOR PREPARING THE SAME

George Calingaert, Geneva, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 24, 1952, Serial No. 278,295
8 Claims. (Cl. 260—437)

1. In the process of producing tetraethyllead by reacting a sodium-lead alloy with ethyl chloride and separating the thus produced tetraethyllead from the reaction mass by steam distillation, the step which comprises conducting said steam distillation in the presence of a thermal stabilizer selected from the class consisting of fused ring hydrocarbons, halogen-containing fused ring hydrocarbons, aryl-substituted olefins, and halogen-containing aryl-substituted olefins.

2,660,597

ALKYL SILICON COMPOUNDS

Paul W. Shafer, Niagara Falls, and George H. Wagner, Kenmore, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application December 17, 1948, Serial No. 65,978
9 Claims. (Cl. 260—448.2)

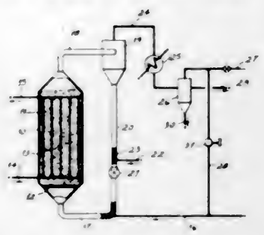
1. Process for making alkyl chlorosilanes which comprises heating an alkane with trichlorosilane at a temperature of at least 300° C. in the presence of a catalyst of the Friedel-Crafts type.

2,660,598

CATALYTIC CONVERSION OF GASEOUS REACTANTS

Frank D. Hoffert, Trenton, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

Application June 24, 1947, Serial No. 756,661
4 Claims. (Cl. 260—449)



1. In the catalytic synthesis of hydrocarbons wherein a synthesis gas comprising hydrogen and carbon monoxide is passed, under reaction conditions, in contact with a fixed bed solid particle hydrocarbon synthesis catalyst in a reaction zone containing cooling surfaces subject to continuous temperature control, the improvement which comprises disposing said fixed bed of catalyst in the reaction zone about said cooling surfaces in the form of relatively coarse, solid particles having interstitial communicating voids therebetween, occupying said interstitial voids with a dense fluid phase of relatively finely divided solid particles substantially inert and non-adsorptive under the conditions of said reaction zone, said inert dense phase forming, in said interstitial voids, paths of high heat conductivity between the cooling surfaces and surfaces of the catalyst spaced therefrom, and continuously withdrawing heat from the reaction zone substantially entirely through said cooling surfaces at a controlled rate effective to maintain the catalyst at a substantially uniform predetermined reaction temperature without substantial localized variation.

2,660,599

CATALYTIC HYDROGENATION OF CARBON MONOXIDE

Walter Rottig, Oberhausen-Sterkrade-Nord, Germany, assignor to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany, a joint stock company of Germany

No Drawing. Application November 16, 1949, Serial No. 127,795
Claims priority, application Germany May 7, 1949
2 Claims. (Cl. 260—449.6)

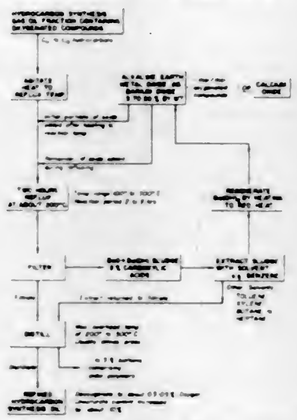
1. A process for catalytic hydrogenation of carbon monoxide at temperatures between about 190° C. and 320° C. and pressures between 10 and 50 atmospheres in the presence of an iron catalyst prepared by precipitation and containing an alkali compound of an inorganic non-volatile acid, the alkali content of said alkali compound ranging from .5–10% calculated for K_2O of the weight of the total iron content, said catalyst having been subjected to the action of a reducing gas at a temperature of 200° C. to 320° C. and a gas velocity of 50 to 500 cm. per second until the free iron content of the catalyst is at least 60% of the total iron content thereof, comprising reacting said carbon monoxide and hydrogen in the presence of said reduced catalyst and at temperatures within said limits to produce a high yield of product having at least 40% of oxygenated compounds therein.

2,660,600

REMOVAL OF OXYGENATED ORGANIC COMPOUNDS FROM HYDROCARBON MIXTURES THEREOF

Norman J. Bowman, Gary, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application March 30, 1949, Serial No. 84,358
6 Claims. (Cl. 260—450)



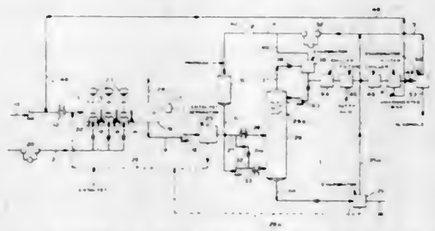
1. A process of refining a hydrocarbon oil containing oxygenated compounds comprising heating the hydrocarbon oil in liquid phase to a temperature between 100° and 300° C., adding thereto from 5 to 20 per cent, by weight of the contained oxygenated compounds, of an anhydrous oxide of an alkaline earth metal selected from the group consisting of calcium, strontium and barium, maintaining the oil in contact with the said oxide at the said temperature for a sufficient time to convert oxygenated compounds to hydrocarbons and alkaline earth metal oxide to a hydroxide sludge and separating so-refined deoxygenated hydrocarbon oil from the said sludge.

2,660,601

SEPARATION OF FATTY ACIDS FROM HYDROCARBON SOLUTIONS THEREOF

Norman L. Dickinson, Basking Ridge, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application August 30, 1948, Serial No. 46,858
3 Claims. (Cl. 260—452)



1. A process for synthesizing fatty acids by the catalytic oxidation of hydrocarbon waxes having a molecular carbon content in the range between about 16 and about 30 carbon atoms, which involves the steps of: continuously flowing said waxes in a liquid state through a reaction zone and intimately contacting said waxes with an oxidizing gas and an oxidation catalyst therein; continuously withdrawing effluent from said zone and introducing said effluent into a vertically extended fractionation zone having a solvent inlet and raffinate phase outlet near the lower end, an extract phase outlet near the upper end, and an effluent inlet in the intermediate portion; continuously introducing into said fractionation zone through said solvent inlet a solvent having a critical temperature not exceeding about 450° F. and countercurrently contacting said effluent with said solvent under liquefying pressure; adjusting the temperatures within said fractionation zone in the range near the critical temperature of the solvent in which solubility decreases as temperature increases to separate said solvent and effluent mixture into an extract phase containing a concentration of alcohols and other incompletely oxygenated products, and a raffinate phase containing a concentration of fatty acids which are soluble in said solvent at lower temperatures; continuously withdrawing extract and raffinate phases from said extract and raffinate phase outlets respectively; separating catalyst from said raffinate phase and recycling it to said reaction zone; and recovering a fatty acid product from the remainder of said raffinate phase.

2,660,602

PROCESS FOR PREPARING BRANCHED PRIMARY SULFATE ESTERS

Herbert K. Wiese, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application April 27, 1950, Serial No. 158,589
7 Claims. (Cl. 260—460)

1. A process for producing a branched primary alkyl sulfate which comprises reacting ethylene with a tertiary C_3–C_{30} olefin in the presence of 90–98 weight per cent sulfuric acid at a temperature of −25° C. to +80° C., and at an ethylene partial pressure of 50–1000 p. s. i. g. whereby a branched primary alkyl sulfate is obtained having two more carbon atoms than the tertiary olefin reactant.

2,660,603

PREPARATION OF TETRAALKYLPYROPHOSPHITES

Richard W. Young and Jack Blodinger, Stamford, and Alice D. Welcher, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 12, 1951, Serial No. 231,264
7 Claims. (Cl. 260—461)

1. The method of preparing tetraalkylpyrophosphites which comprises reacting, under anhydrous conditions and in the presence of a basic tertiary amine, a dialkylhalophosphite in which the alkyl groups contain from 2 to 4 carbon atoms, with a dialkylphosphite in which the alkyl groups contain from 2 to 4 carbon atoms, and recovering the tetraalkylpyrophosphite.

2,660,604

CRYSTALLIZATION OF UREA

Walter Michelitsch, Ludwigshafen (Rhine), Oppau, Germany, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany

No Drawing. Application July 12, 1950, Serial No. 173,481
Claims priority, application Germany July 20, 1949
8 Claims. (Cl. 260—555)

1. A process for the recovery of urea crystals from aqueous solutions of urea which consists

in adding at an elevated temperature to an aqueous urea solution saturated with urea at the said temperature a glyoxal-urea condensation product selected from the group consisting of acetylene-diurea, the product obtained by heating acetylene-diurea for about 2 hours at about 250° C. and tetramethylol acetylene-diurea in an amount between about 0.05 and 0.3 per cent with reference to the amount of urea dissolved, slowly cooling while stirring the solution to normal temperature and separating the urea crystals from the mother liquor.

2,660,605

ANTIOXIDANTS

Thomas H. Newby, Middlebury, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 12, 1951, Serial No. 251,129

9 Claims. (Cl. 260—576)

1. A method which comprises heating a solid composite aliphatic ketone-diarylamine condensate with an alkylated benzene in which at least one alkyl group is at least two carbons in length and having at least one hydrogen on the carbon atoms alpha and beta to the benzene ring, for a time and at a temperature in the range from about 200 to about 300° C. sufficient to convert the original solid composite condensate to a mobile oily liquid, characterized as having a viscosity in the range of 10 to 50 poises at 30° C., said heating being carried out in the presence of a catalyst capable of condensing aliphatic ketones with diarylamines.

6. A modified aliphatic ketone-diarylamine reaction product resulting from a process as set forth in claim 1.

2,660,606

ANTIOXIDANTS

Thomas H. Newby, Middlebury, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 12, 1951, Serial No. 251,130

9 Claims. (Cl. 260—576)

1. A method which comprises heating a solid composite aliphatic ketone-diarylamine condensate with a cyclo olefin selected from the class consisting of cyclohexene, butadiene dimer, and dipentene, for a time and at a temperature in the range from about 200 to about 300° C. sufficient to convert the original solid composite condensate to a mobile oily liquid, characterized as having a viscosity in the range of 10 to 50 poises at 30° C., said heating being carried out in the presence of a catalyst capable of condensing aliphatic ketones with diarylamines.

6. A modified aliphatic ketone-diarylamine reaction product resulting from a process as set forth in claim 1.

2,660,607

PROCESS OF MAKING 2-HYDROXYETHYL-HYDRAZINE

Gabriel Gever, Oxford, and Charles J. O'Keefe, Norwich, N. Y., assignors to Eaton Laboratories, Inc., Norwich, N. Y., a corporation of New York

No Drawing. Application October 11, 1951, Serial No. 250,956

5 Claims. (Cl. 260—584)

1. The process of making 2-hydroxyethylhydrazine, which comprises reacting ethylene oxide with hydrazine hydrate in a closed system by heating about 2 to about 7 parts of hydrazine hydrate to a temperature within the range of about 30° C. to about 100 C., gradually adding 1 part of ethylene oxide to the hydrazine hydrate, and maintaining the temperature of the reaction mixture within said temperature range during said addition.

2,660,608

BRANCHED CHAIN OCTADECENONE AND PREPARATION THEREOF

Walter Kimel, Highland Park, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Original application July 18, 1952, Serial No. 299,739, now Patent No. 2,628,251, dated February 10, 1953. Divided and this application July 23, 1952, Serial No. 300,501

2 Claims. (Cl. 260—595)

1. A process which comprises condensing diketene with 3,7,11-trimethyl-1-dodecen-3-ol and decarboxylating the condensation product to produce 6,10,14-trimethyl-5-pentadecen-2-one.

2,660,609

ISOMERIZATION OF ALKYLENE OXIDES

Max O. Robeson and Richard A. Springer, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application April 5, 1950, Serial No. 154,208

4 Claims. (Cl. 260—601)

1. Process for the isomerization of alkylene oxides to aldehydes which comprises vaporizing an alkylene oxide and passing the resulting vapors through a catalyst comprising fuller's earth while maintaining the catalyst in a fluidized state at an elevated temperature in the presence of a small amount of water as an agent for controlling the reaction temperature.

2,660,610

CATALYTIC ALKYLBENZENE SYNTHESIS

Michael Erchak, Jr., Morris Township, Morris County, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application February 24, 1951, Serial No. 212,686

7 Claims. (Cl. 260—668)

1. Process for producing alkylbenzene compounds which comprises reacting, in the presence of peroxy catalyst, having no elements other than carbon, hydrogen and oxygen in the molecule and which is substantially stable below about 100° C., and at temperatures between about 200° C. and about 350° C., and at pressures between about 500 and about 5000 p. s. i., ethylene and alkylbenzene compound in which the benzene ring contains in all not more than 2 substituent groups and substituent alkyl groups contain not more than 10 carbon atoms each, said alkylbenzene compound having at least one hydrogen atom attached to a saturated carbon atom alpha to the benzene ring; and establishing mol ratios of alkylbenzene reactant:ethylene at least about 05:1.

ELECTRICAL

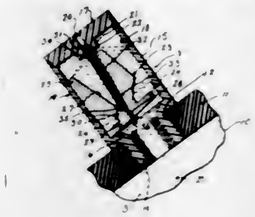
2,660,611

NONSPILLABLE VENT PLUG FOR STORAGE BATTERIES

Owen G. Duncan, Racine, Wis.

Application March 9, 1953, Serial No. 341,317

7 Claims. (Cl. 136—178)



1. A self-closing vent plug for storage batteries comprising a hollow body having an opening for communication with the interior of a storage battery and an atmospheric vent port, a valve for closing said atmospheric vent port when the battery and plug assume a predetermined angle relative to the normal upright position of the battery, a tiltable weight in the body, and a flexible connection between the bottom of the weight and said valve, said flexible connection having a rigid sleeve surrounding the same for a portion of its length with the lower end of the sleeve engaging the bottom of the weight, whereby to exert an outward thrust on the valve upon the tilting of the weight at a certain angle relative to the vertical.

2,660,612

COLOR TELEVISION RECEIVING SYSTEM

Frank M. Wood, Jr., Fort Worth, Tex.

Application December 14, 1949, Serial No. 132,820

3 Claims. (Cl. 178—5.4)



1. In a color television system comprising an electron tube having a target based upon a quasi-focal plane adapted to be impacted by an electron beam substantially focused thereat, groups of deflection plates spaced from and positioned to coact with the quasi-focal plane of the tube, groups of focusing and beam shaping elements spaced from and aligned with said deflection plates, a group of color control grids providing a plurality of selected component colors for producing additive color images positioned to coact with the focusing electrodes and deflecting plates, means for developing a plurality of electron scanning beams and for directing the resultant electron beams upon the target areas, means for scanning the target areas by the separately produced electron scanning beams, and means for restricting the scanning of the target by the separate electron scanning beams.

2,660,613

SIMULTANEOUS CONTROL SYSTEM FOR A PLURALITY OF PICTURE SIGNAL CHARACTERISTICS

Norman H. Young, Jr., Nutley, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application February 25, 1950, Serial No. 146,290

4 Claims. (Cl. 178—5.4)



1. A system for control of the different color components of a picture image signal producing television camera system, comprising separate camera devices forming an image signal producing device, a plurality of adjustable potentiometers individual to each of said camera devices for controlling individually picture signal intensity and contrast amplitude levels of each of the image signal components in said system, control storage means having individual variably positioned control elements coupled respectively to said adjustable means, means for setting up in said control storage means position adjustment information for said control elements predetermined in accordance with the light and color values of the image to be produced, and means for operating said control storage means to adjust said plurality of adjustable means substantially simultaneously into a position corresponding with the information stored in said control storage means.

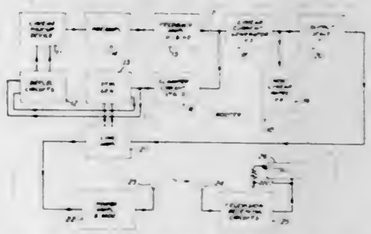
2,660,614

TELEVISION CORRECTING CIRCUIT

Bernard M. Oliver, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 21, 1949, Serial No. 72,045

5 Claims. (Cl. 178—7.2)



2. A correcting circuit for a television system in which image signals are applied to a television receiver tube which has a screen bright-

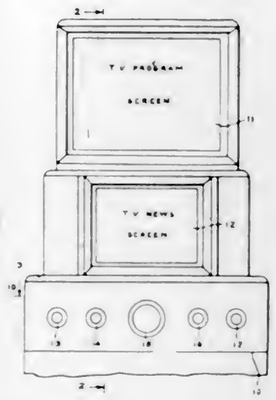
ness versus signal voltage characteristic which obeys an n power law where n is greater than 1, comprising a source of television image signals, electronic circuit means for extracting the nth root of the signals applied thereto, said circuit means including a linear current generator having a non-linear impedance in its output circuit, amplifying means having an input and an output circuit and means for connecting the input circuit of said amplifying means in parallel with said impedance and means for applying said television signals to said electronic means.

2,660,615
SIGNAL GENERATION APPARATUS
Calvin L. Ellis, Clay, N. Y., and Ralph W. Elsner, Phoenix, Ariz., assignors to General Electric Company, a corporation of New York
Application April 11, 1951, Serial No. 220,414
7 Claims. (Cl. 178—7.2)



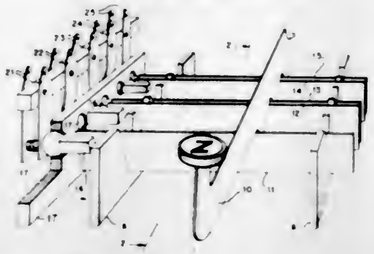
5. In a television system, apparatus for developing groups of signals of accurately controlled occurrence with respect to one another and of accurately controlled durations comprising a first counter means having an input circuit and an output circuit and arranged to develop a single pulse in said output circuit for every six pulses supplied to said input circuit, a second counter means having an input circuit and an output circuit, current conduction in the output circuit of said second contour means being changeable from one value to another upon the application of a pulse to its input circuit, the input circuit of said second counter means connected to the output circuit of said first counter means through an amplifier, a third counter means having an input circuit and an output circuit, and arranged to develop a single pulse for every three pulses supplied to said input circuit, the input circuit of said third counter means connected to the output circuit of said amplifier, a fourth counter means having an input circuit and an output circuit, current conduction in the output circuit of said fourth contour means being changeable from one value to another upon the application of a pulse to its input circuit, the input circuit of said fourth counter means connected to the output circuit of said third counter means, an amplifier means having an input circuit connected to a source of electrical pulses of short duration regularly recurring at a frequency of twice horizontal line scansion frequency of said television system and an output circuit connected to the input circuit of said first counter means and having a control circuit connected to the output circuit of a third amplifier, the input circuit of said third amplifier connected to the output circuit of said fourth counter means for allowing the passage of said electrical pulses to said first counter means during the occurrence of a particular conductive state in the output circuit of said fourth counter means, means for supplying a second series of pulses having a lower frequency than said first-mentioned series of pulses to said second and fourth counter means, whereby groups of pulses are developed in the output circuits of said second and fourth counter means, having a frequency of occurrence determined by the frequency of occurrence of the pulses of said second series and having a duration dependent on the time required for the first and third counter means to execute complete cycles.

2,660,616
TELEVISION STILL PICTURE RECEIVER
John Hays Hammond, Jr., and Ellison S. Purington, Gloucester, Mass.; said Purington assignor to said Hammond, Jr.
Application December 6, 1950, Serial No. 199,534
8 Claims. (Cl. 178—7.4)



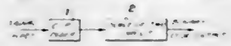
1. A system for receiving, recording and projecting a series of still pictures received over a television channel during a break in a continuous television program, comprising a television receiver having means responsive to received television signals to produce an image on a television screen, a camera focused on said screen and having means to photograph said image on a sensitized surface said camera having a shutter, a control member connected to trip said shutter for photographing said image, a trip circuit connected to actuate said control member, precessing mechanism having means to process said sensitized surface to form a permanent image thereon, stepping mechanism having means to advance said sensitized surface through said camera and into said processing mechanism by an amount to form successive images on successive portions of said surface, a stepping circuit connected to actuate said stepping mechanism, timing means, means controlled by actuation of said timing means, to energize said trip circuit and said stepping circuit in timed sequence to photograph a plurality of images in succession, means controlled by actuation of said timing means to advance said surface after each exposure, means controlled by actuation of said timing means to advance the exposed surfaces into said processing mechanism for processing, means responsive to a predetermined received signal to initiate the operation of said timing means, a second timing means, means controlled by actuation of said second timing means, to control the operation of said processing mechanism and then to actuate said stepping mechanism to advance said processed surfaces out of said processing mechanism, and means actuated by said first timing means to initiate the operation of said second timing means.

2,660,617
TELEPRINTING DEVICE
Karel Hájek, Prague, Czechoslovakia, assignor of one-half to Tesla, national corporation, Prague, Czechoslovakia, a corporation of Czechoslovakia
Application July 25, 1950, Serial No. 175,781
Claims priority, application Czechoslovakia August 17, 1949
7 Claims. (Cl. 178—17)



1. In a teleprinting device the combination comprising a keyboard serving to transmit distinct characters, a plurality of keylevers mounted in parallel, each keylever associated with one key of said board, a plurality of combination bars arranged perpendicularly to said keylevers, a support for said combination bars, said support having a plurality of essentially V-shaped incisions, each incision adapted to receive one of said combination bars and to permit the same to tilt therein about its longitudinal base edge from a neutral position into a working position, a combination of toothlike projections on each keylever, each of said combinations corresponding to a code indicative of the character served by the respective keylever, said projections adapted to tilt selected combination bars within the respective incision from their neutral position into their working position, a plurality of electric contact devices each indicative of the working position of one of said combination bars, and means associated with each combination bar to actuate the respective electric contact device.

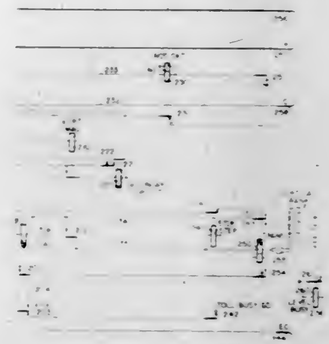
2,660,618
SIGNAL TRANSLATION SYSTEM
Pierre R. Aigrain, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application January 20, 1948, Serial No. 3,230
8 Claims. (Cl. 179—15)



1. The method of transmitting binary code representative of a given signal voltage, comprising producing at a transmitter a cyclic permutation code representative of said signal voltage, translating said cyclic permutation code to said conventional binary code before transmitting, and transmitting the conventional binary code.

2,660,619
LEVEL-HUNTING SELECTOR
Frank Kessler, Rochester, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application October 1, 1949, Serial No. 119,158
10 Claims. (Cl. 179—18)

1. In a telephone system including a plurality of companion selectors, an automatic selecting switch having group selecting and trunk hunting stepping movements, a plurality of terminals arranged in levels thereon, a trunk line connected to each terminal, means for busy marking each individual trunk line, a group of said trunk lines comprising a plurality of levels, means for marking each level when all trunks are busy thereon, means for operating said switch in a first directive group selecting movement to a desired level in said trunk group, means responsive to an all busy marking condition on said desired level for operating said switch in an automatic second group selecting movement to find the next level containing an idle trunk, circuit means effective responsive to the termination of said second



group selecting movement for operating said switch automatically in a trunk hunting movement within said next level and means effective responsive to the busying by one of said companion selectors of a sole idle trunk on said next level before said switch steps thereto for operating said switch in a third group selecting movement to the immediate succeeding level, said circuit means also effective responsive to the termination of said third group selecting movement for again operating said switch automatically in its trunk hunting movement in said immediate succeeding level, and in case said latter level is busy, the cycle of said third group selecting and said trunk hunting movements being successively repeated by their said respective means until an idle trunk is reached.

2,660,620
AUTOMATIC TELEPHONE SYSTEM
Fernand Pierre Gohorel, Antony, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 30, 1950, Serial No. 187,718
Claims priority, application France October 3, 1949
2 Claims. (Cl. 179—18)

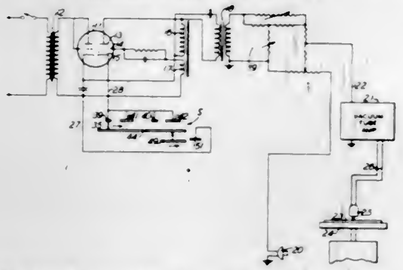
1. In an automatic telephone system a selector switch for setting up a connection between a calling and a called line, said selector switch being of the cross-bar type having input lines, output lines, normally open contact means for connecting said input lines with selected ones of said output lines, and normally closed additional contact means associated with said input lines and controlled by the operation of the switch horizontal connection bars, and a clutch control magnet for each of said connection bars, the combination comprising a control circuit connected to said input lines over said additional contact means, a register, means for connecting said control circuit over said input lines of said selector switch to said register, an electronic

comparator in said register, means for setting said comparator to respond to an impulse at a predetermined time position identifying a group of lines of which a free line is to be selected, means in said control circuit for sending impulses over said input lines at a plurality of different time positions representing a free line in the selected group, means in said register responsive to the operation of said comparator for



sending an impulse at the time position corresponding to that of the first free line to said control circuit, means in said control circuit for registering the time position of the received impulse from said register, and means controlled by said registering means for operating said clutch control magnet so as to close the outgoing contacts to said first free line and simultaneously open said additional contacts so as to disconnect said control circuit.

2,660,621
IDENTIFICATION CODE ON SOUND RECORDS
Louis L. Billar, Phoenix, Ariz.
Application July 14, 1950, Serial No. 173,725
6 Claims. (Cl. 179—100.1)



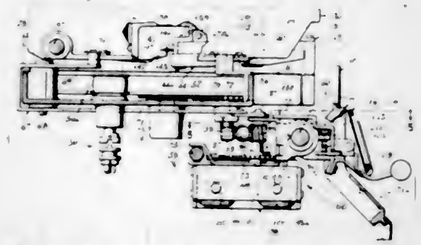
6. A sound recording apparatus including a recording medium, means for applying a plurality of sound sources to said medium, a control box for transferring visual identification of each of said sound sources as a super-imposed distinctive audio control signal on said recording medium in conjunction with the actual recording of each individual sound source including a plurality of push buttons, one for each individual sound source to be identified, and switch means actated by a single momentary depression of one of said push buttons to super-impose a distinctive audio characteristic on said recording medium identifying that portion of the record.

2,660,622
MAGNETIC TELEGRAPHOPHONE TRANSDUCER
William J. Field, Minneapolis, and Robert L. Perkins, St. Paul, Minn., assignors to Engineering Research Associates, Inc., St. Paul, Minn., a corporation of Minnesota
Application September 27, 1949, Serial No. 118,034
2 Claims. (Cl. 179—100.2)



2. In a magnetic transducer, magnetic pole pieces arranged to define a recording gap therebetween, the edges of the pole pieces being positioned in alignment and adapted for high frequency non-contact operation in close proximity to a moving record member, and means for concentrating recording flux in an area outwardly of the gap, whereby short pulses may be induced into the adjacent record member, said means comprising a flat shim plate of non-magnetic highly conductive material, the shim being of such thickness to completely fill the gap, the edge of the shim lying adjacent the recording side of the gap being flush with the pole pieces, the shim extending beyond the ends of the gap and having end portions bent to extend along the sides of at least one pole piece in planes perpendicular to the plane of the gap to reduce sidewise fringing of flux.

2,660,623
PHONOGRAPHIC REPRODUCING MACHINE
Richard M. Somers, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application July 29, 1948, Serial No. 41,291
11 Claims. (Cl. 179—100.4)



1. In a machine for reproducing recorded dictation comprising a rotatable support for a record, a record-cooperable reproducing device biased to engage a supported record and mounted for forward and backward traveling movement across the record, and a drive motor for the machine: the combination of a drive transmission operable by said motor to effect a forward traveling movement of said reproducing device relative to said record, said drive transmission including reciprocable means effective during each complete reciprocation thereof to cause said transmission to be disabled, said reproducing device to be backspaced a predetermined amount and said transmission to be thereupon re-abled; control means operable successively to cause successive reciprocations of said reciprocable means; means for relieving partially the pressure of said reproducing device from the record while the reproducing device is being backspaced; an electromagnet for operating said pressure-relieving means; and a switch operable by said control means for supplying current to said electromagnet.

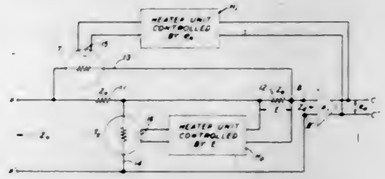
2,660,624
HIGH INPUT IMPEDANCE SEMICONDUCTOR AMPLIFIER
Gustav Bergson, Germantown, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application February 24, 1949, Serial No. 78,076
1 Claim. (Cl. 179—171)



An amplifier comprising a body of semi-conducting material, a base electrode, an emitter electrode and a collector electrode provided on said body, a means for biasing said base and emitter electrodes in a relatively conducting polarity and for biasing said base and collector electrodes in a relatively non-conducting polarity, an input circuit including a first resistor connected between said emitter electrode and a point of fixed potential, an output circuit including a second resistor and a thrid resistor connected in series between said collector electrode and a point of fixed potential, a fourth and a fifth resistor connected in series between said base electrode and said point of fixed potential, a first capacitor connected between the junction point of said second and third resistors and said emitter electrode, said first capacitor providing a feedback path for returning a desired fraction of alternating collector currents to said emitter electrode, said fraction being so selected as to present oscillations, and a second capacitor connected between the junction point of said fourth and fifth resistor and said emitter electrode, said second capacitor providing a feedback path for returning a desired fraction of alternating emitter currents from said base electrode to said emitter electrode, said third resistor having a resistance of the order of the input impedance of said amplifier, and said capacitors having each a reactance at the frequency of a signal to be amplified that is small compared to the combined impedance of said input circuit and of said third resistor connected in series, said capactors providing for an increased effective input impedance.

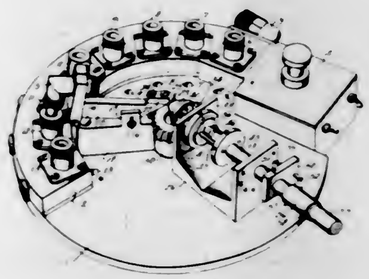
2,660,625
AUTOMATIC LEVEL CONTROL
Charles W. Harrison, Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 25, 1950, Serial No. 197,608
10 Claims. (Cl. 179—171)

1. An arrangement for attenuation control comprising a balanced bridged-T network having two impedance series arms, a variable impedance bridging arm, and a variable impedance shunt arm, means for varying the impedance of the bridging arm for changing the attenuation of the network and for producing a voltage unbalance across the normally balanced series arm, and means for utilizing said voltage unbalance for varying the impedance of the



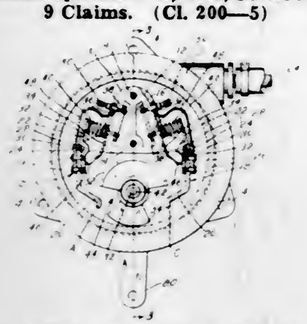
shunt arm and readjusting the network to balance.

2,660,626
STEP ATTENUATOR SWITCH
John Edward Stankey, Altadena, Calif., assignor to the United States of America as represented by the Secretary of the Air Force
Application July 24, 1952, Serial No. 300,672
1 Claim. (Cl. 200—4)



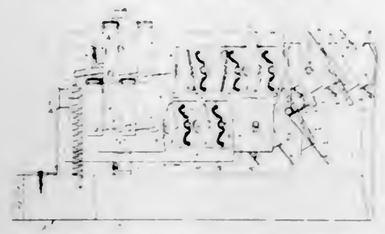
In a switching device of the character described, a base member, a plurality of female switch connectors arranged on said base member concentric to a common axis, a radial support arm rotatably mounted on said base member and adapted to be brought into radial alignment with any selected female switch connector, gearing means for rotating said radial support arm, a lever pivotally mounted on said radial support arm, a male switch plug mounted on the radially outer end of said lever and adapted to be brought into and out of engagement with said female switch connectors by rocking motion of said lever, yielding means normally urging said lever to maintain said male switch connector out of engagement with said female switch connectors, cam means for rocking said lever in opposition to said yielding means to cause engagement of said male connector with a selected female connector, a single operating shaft mounted on said base member for rotational and axial sliding movement, an operative connection between said operating shaft and said gearing means whereby rotation of said operating shaft causes rotary movement of said radial support arm into indexed alignment with any one of said female switch connector and an operative connection between said operating shaft and said cam means whereby axial sliding movement of said operating shaft causes actuation of said cam means to cause in turn a connection between said male switch connector and a selected female switch connector.

2,660,627
SWITCH
James W. Woolf, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 18, 1948, Serial No. 49,921
9 Claims. (Cl. 200—5)



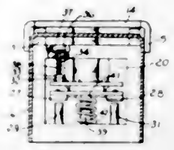
1. In a switch, a casing, a pair of identical hollow non-conductive blocks removably mounted side by side in the casing, a first contact, means including a holding member inside said blocks for mounting the contact on the blocks, a second contact in the casing movable into and out of engagement with the first-named contact, and means including an actuator extending outside the casing for moving the second contact into and out of engagement with the first contact, and also including a projection on the actuator, another projection on the casing, a rocker arm pivotally mounted outside the casing, and a spring connected to bias the rocker arm into engagement with both of said projections.

2,660,628
MASTER OR CENTRAL STATION CONTROLLER
Eugene R. Kilgen, University City, Mo.
Original application April 9, 1951, Serial No. 219,947, now Patent No. 2,595,083, dated April 29, 1952. Divided and this application March 24, 1952, Serial No. 278,269
20 Claims. (Cl. 200—18)



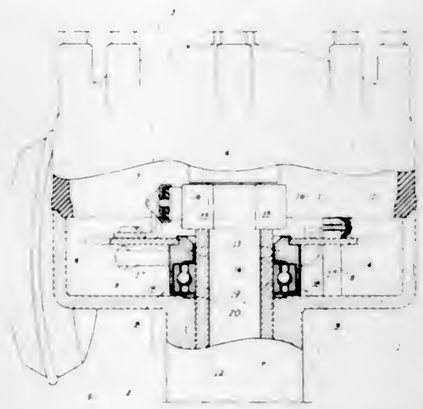
1. In a master controller for remotely located means to be controlled through circuit connections to the controller, the combination of circuit selecting means movable between circuit make and break positions, control means movable adjacent said selecting means between operative and inoperative positions to control the remotely located means, and tappet means mounted on said control means for movement between on and off positions corresponding with the respective make and break positions of said selecting means, said tappet means being adjacent said selecting means in the operative position of said control means for influencing the position of said selecting means and being removed from influence over said selecting means in the inoperative position of said control means.

2,660,629
ELECTRICAL SWITCH
Joseph J. Lucas, Dayton, Ohio, assignor of one-half to John A. Kappeler, Dayton, Ohio
Application October 22, 1952, Serial No. 316,185
10 Claims. (Cl. 200—18)



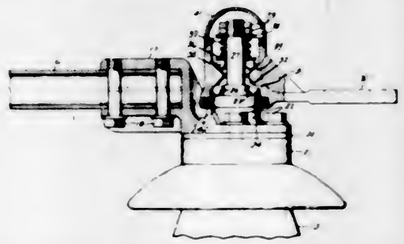
3. An electrical switching device, including separate input conductors and separate output conductors, a pair of contacts one of which is connected to one of said input conductors and the other of which is connected to one of said output conductors, said pair of contacts being in side by side non-contacting relation, a bridging contact arranged to interconnect said pair of contacts and connected to another one of said output conductors, a carrier for said bridging contact insulated therefrom and arranged for to and fro motion alternately to engage and disengage said bridging contact with respect to said pair of contacts, and another pair of contacts opened by motion of said carrier to engage said bridging contact with the first recited pair of contacts and closed by motion of said carrier to disengage said bridging contact from said first recited pair of contacts, one of the second recited pair of contacts being connected to the other one of said input conductors and the other one being connected to the said other one of the first recited pair of contacts.

2,660,630
ANTIFRICTION MOUNT FOR THE DISTRIBUTOR PLATE OF MOTOR VEHICLE DISTRIBUTORS
Harry Henrichs, Fresno, Calif.
Application January 30, 1953, Serial No. 334,310
6 Claims. (Cl. 200—31)



1. A distributor plate mount for an ignition distributor which includes a case having a neck depending therefrom, a driven shaft extending upwardly through the neck into the case, and a distributor plate surrounding the shaft in clearance relation above the bottom of the case; said mount comprising a sleeve bushing fixed in the neck and projecting above said bottom of the case, the shaft being rotatable in the sleeve bushing, a hub fixed on and depending from the distributor plate about the sleeve bushing, and an anti-friction bearing engaged between the hub and sleeve bushing.

2,660,631
SIDE BREAK DISCONNECTING SWITCH
Howard R. Harrison, Philadelphia, Pa., assignor to General Electric Company, a corporation of New York
Application August 13, 1951, Serial No. 241,578
10 Claims. (Cl. 200—48)



1. A circuit disconnecting switch having in combination a stationary switch contact provided with a connection terminal for one circuit conductor, a rotatably-mounted switch blade for disengaging the stationary switch contact, a pair of relatively-rotatable conducting members having an axial nesting relation, the inner member having means for mounting the member coaxially on the blade to rotate therewith and the outer member having a connection terminal for the other circuit conductor, a plurality of conducting balls having coaxial races formed on adjacent surfaces of the nesting conducting members in axial nesting ball retaining relation for conducting current therebetween, and resilient means for axially biasing the outer nesting member toward the inner member to maintain current-conducting contact pressure on the balls.

2,660,632
BURGLAR ALARM SAFETY LOCK
Kenji Makishima, Honolulu, Territory of Hawaii
Application December 14, 1951, Serial No. 261,691
2 Claims. (Cl. 200—61.64)



1. In combination, a door lock having a retractable bolt member projecting therefrom, a bolt housing adapted to be mounted adjacent said door lock to receive said bolt member, a pressure-responsive alarm switch mounted in said bolt housing and arranged to be actuated by transverse movement of the bolt member in said bolt housing, and a separator member of malleable, permanently deformable material secured in said bolt housing between said pressure-responsive switch and the space in which the bolt member is receivable, said separator member being deformable by the bolt member into operating engagement with the switch responsive to said transverse movement of the bolt member in the bolt housing.

2,660,633
SNAP SWITCH
Adrian J. Vaksvik, Elkhart, Ind., assignor to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana
Application January 4, 1951, Serial No. 204,329
16 Claims. (Cl. 200—76)

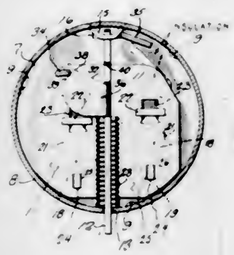


1. In an electrical control instrumentality of the character described: a substantially cup-shaped switch housing including a side wall and a bottom wall at one end of the switch housing; stationary contacts secured to said bottom wall; a substantially flat insulative contact carrier inside the bottom portion of the switch housing flatwise overlying the bottom wall of the housing and movable edgewise to and from switch-open and switch-closed positions; supporting means on said bottom wall for spacing the contact carrier therefrom and upon which the contact carrier slides during switch-opening and switch-closing movement; means on the side wall of the switch housing providing opposed sockets which open toward one another and to the outer edge of the housing side wall; a shoulder in each of said sockets spaced from the open end of the switch housing but facing the same; a cover engaged over the open end of the switch housing to close the same, said cover having an opening therein; an actuating blade for snapping said contact carrier to and from switch-open and switch-closed positions, said blade having its opposite ends pivotally received in said sockets and confined therein between said shoulders and the cover, said blade extending edgewise across the contact carrier between it and said cover; a motion transmitting connection between the intermediate portion of the spring blade and the contact carrier; a foot on the edge of the blade adjacent to the contact carrier and engaged therewith to cooperate with said supporting means for the contact carrier to substantially preclude flatwise motion of the contact carrier in the switch housing; and an extension on the opposite edge of the spring blade projecting through said opening in the cover to enable the switch actuating blade to be operated from outside the switch housing.

2,660,634
ELECTRIC SWITCH
Wilkie L. Bush and Arthur M. Daily, Elkhart, Ind., assignors to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana
Application November 7, 1951, Serial No. 255,270
14 Claims. (Cl. 200—77)

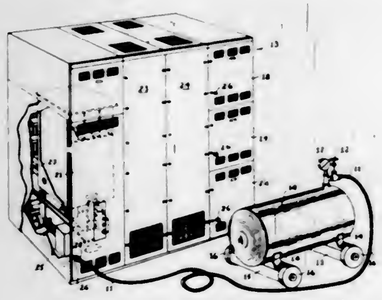
1. In an electric switch having a flat base defining an end wall of a substantially cylindrical

housing, a movable contact carrier constrained to movement across the flat base and cooperating contacts on the base and movable contact carrier, mechanism for translating a small angular movement of a rotatable actuator turning upon an axis perpendicular to the base and substantially concentric with the housing into a relatively large linear switch opening and closing movement of the movable contact carrier, comprising: a pitman constrained to linear movement across and parallel to the base; a driving connection between the pitman and the carrier; a spring imposing an endwise thrust



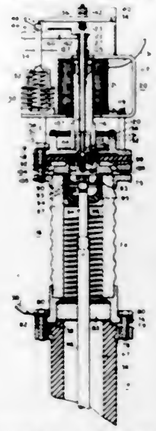
upon the pitman and urging the same in one direction; a rotatable actuator constrained to rotation about an axis perpendicular to the base and substantially concentric with the housing; a driving abutment on the actuator movable in an arcuate orbit by rotation of the actuator; and an abutment on the pitman lying in the path of the driving abutment as the latter moves along its arcuate orbit, the contacting surfaces of said abutments being so disposed that during a small part of the permitted rotation of the actuator in one direction they have transient camming engagement to retract the pitman against the force of its spring.

2,660,635
AIR OPERATED CIRCUIT BREAKER
Joseph D. Wood, Strafford Village, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 8, 1948, Serial No. 64,085
4 Claims. (Cl. 200—81.5)



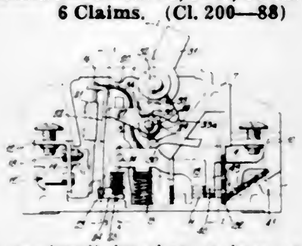
1. In a circuit breaker having a pair of cooperable contacts, an electromagnet having an armature, mechanism controlled by said armature for operating said contacts into engagement, a chamber for said armature, said armature forming a piston in said chamber, and a source of fluid pressure connectable to said chamber for operating said contacts into engagement.

2,660,636
AUTOMATIC RECLOSING CIRCUIT BREAKER
James M. Wallace and Albert P. Strom, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 5, 1951, Serial No. 235,281
19 Claims. (Cl. 200—82)



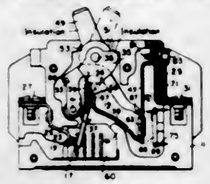
4. In an automatic reclosing circuit breaker, separable contacts, fluid actuated means for separating said contacts, fluid storage means, means responsive to a predetermined condition of a circuit for connecting said fluid storage means to said fluid actuated means, and pressure actuated means responsive to a drop in pressure of the fluid in said storage means to a predetermined value for effecting a locking operation of the contacts in a separated position.

2,660,637
CIRCUIT BREAKER
William A. Thomas, Plainville, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application November 18, 1949, Serial No. 128,096
6 Claims. (Cl. 200—88)



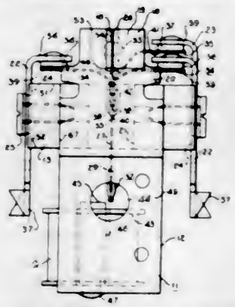
1. In a circuit breaker, a base, a stationary contact mounted on said base, a rigid movable switch arm having a pin and slot connection with said base at one end and having a movable contact at the other end cooperable with said stationary contact, said pin and slot connection providing transverse sliding and pivotal movement of said arm, a spring engaging said switch arm intermediate said movable contact and said one end and biasing said switch arm to an open circuit position, and manually operable camming means engaging said switch arm intermediate said contact and said spring to force said arm to a circuit closing position and lock it against the biasing action of said spring, said spring upon release of said manually operable means first sliding said one end of said switch arm transversely thereby to slide said contacts one upon the other and then separating said contacts by rotation of said switch arm about said one end.

2,660,638
CIRCUIT BREAKER
Francis L. Gelzheiser, Pittsburgh, and Eugene J. Walker, Beaver, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 16, 1951, Serial No. 251,552
6 Claims. (Cl. 200—88)



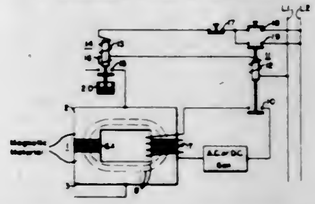
1. A circuit breaker comprising relatively movable contact means and means releasable to effect opening of said contact means, a trip device for effecting release of said releasable means comprising a thermally responsive element heated by the current of the circuit and operable when heated a predetermined amount in response to certain abnormal circuit conditions to effect release of said releasable means, electromagnetic means comprising a magnetic member mounted on said thermally responsive element, and a second magnetic member mounted on a fixed support for limited movement toward said first magnetic member in response to certain other abnormal circuit conditions to reduce the magnetic air gap and thereby apply a force to said thermally responsive element to assist said thermally responsive element to trip said breaker.

2,660,639
ELECTRICAL VIBRATOR
Harold J. Brown, Mattapoisett, Mass., assignor to Aerovox Corporation, New Bedford, Mass., a corporation of Massachusetts
Application February 19, 1948, Serial No. 9,501
4 Claims. (Cl. 200—90)



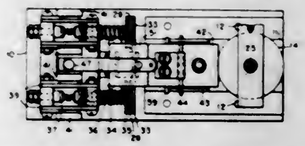
1. An electric vibrator comprising a substantially U-shaped frame of magnetic material having its free ends spaced from each other, the legs of said frame having projecting shoulders across the width thereof, a coil mounted on the cross bar of the frame between the legs thereof, said coil having a pole, a vibratory assembly having a mount extending between and affixed to the free ends of said legs, said vibratory assembly including an armature reed longitudinally of the frame and having a head spaced longitudinally of and coacting with said pole, said vibratory assembly including one or more laterally extending vibratory arms, an electric contact carried near the free end of each of said arms, an insulating block carried on the shoulders of said legs, extending therebetween and disposed between the coil and the vibratory assembly mount, said legs having inturned tabs extending over said block to retain the latter on said shoulders, said block having a passageway therethrough for said reed, and stationary electrical contacts mounted on said insulating block and coacting with the respective contacts of the vibratory assembly.

2,660,640
CIRCUIT INTERRUPTER
Samuel Wolf, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 6, 1949, Serial No. 131,395
5 Claims. (Cl. 200—104)



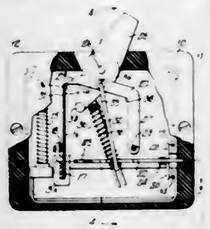
3. A circuit interrupter including a pair of spaced electrodes, an insulating elastic solid body interposed between said electrodes and having finely divided conducting magnetic particles interspersed therein, the conducting magnetic particles being spaced in substantially non-conductive relation so that the elastic body has a relatively high resistance between the electrodes, means for applying a magnetic field to the elastic body and the particles then being in good-conducting relation with respect to each other to form thereby conducting chains between the electrodes, said elastic solid body being stressed while the magnetic field is applied so that removal of the magnetic field causes, due to the elastic nature of the solid body, a return of the particles to their initially substantially non-conductive relation in which high resistance exists through the finely divided particles between the electrodes.

2,660,641
ELECTROMAGNETIC RELAY
Bascum O. Austin, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 12, 1950, Serial No. 179,054
7 Claims. (Cl. 200—106)



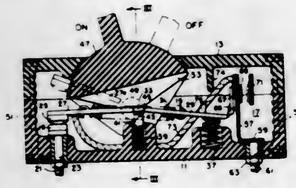
1. A relay device comprising a movable member carrying a contact adapted to engage a stationary contact, a coil, an armature member cooperating with said coil, said armature member being adapted to engage said movable member to move the movable member to separate the contacts when the coil is energized, a latch bar adapted to engage the movable member and hold it in position with the contacts separated, and means for moving the armature member to engage the latch bar to effect release of the movable member to allow the contacts to reclose.

2,660,642
ELECTRICAL CIRCUIT BREAKER
Robert E. Warren, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application August 2, 1951, Serial No. 239,932
7 Claims. (Cl. 200—116)



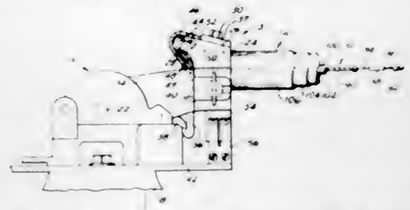
1. A circuit breaker comprising a switch operating arm, a first pivot for one end of said arm, means supporting said first pivot for movement from one position to another, holding means engaging said supporting means for normally securing said supporting means with said first pivot in one of said positions, a manually operated member mounted on a second pivot adjacent said one position such that said first pivot moves away from said member in moving to its other position, compression spring means having one end connected to the movable end of said operating arm and its opposite end connected to said manually operated member thereby to bias said supporting means away from said manually operated member toward its other position and snap said operating arm from one position to another upon movement of said manually operated member to move said opposite end of said spring from one side to the other of said first pivot, switch means operated by said arm, and means responsive to the current in said switch means for operating said holding means to release said supporting means upon the occurrence of a predetermined high current for movement of said supporting means by said spring means to move said first pivot to its other position on the opposite side of said spring thereby to snap said operating arm to an open circuit position.

2,660,643
CIRCUIT BREAKER
Julius Toth, Beaver, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 16, 1951, Serial No. 251,491
13 Claims. (Cl. 200—116)



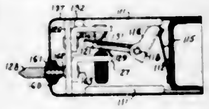
1. A circuit breaker comprising relatively movable contact means, a switch member movable to effect opening and closing of said contact means, a releasable member having one end pivotally connected to one end of said switch member, said switch member and said releasable member forming a toggle, an overcenter spring connected to said switch member and to said releasable member, an operating handle movable to an "on" and to an "off" position for effecting manual opening and closing of said contact means, spring means biasing the knee of said toggle against said handle, and said handle when moved to said "off" position moving the knee of said toggle over center to permit said overcenter spring to move said switch member to open position.

2,660,644
HIGH-VOLTAGE FUSE
Royce L. Murray, William H. McClure, and Edgar W. Garrison, Jr., Birmingham, Ala., assignors to USCO Power Equipment Corp., Birmingham, Ala., a corporation of Alabama
Application July 10, 1951, Serial No. 235,996
3 Claims. (Cl. 200—131)



1. A high voltage corona inhibiting expulsion type air break dropout fuse tube adapted to operate in a line at a voltage high enough to make corona a problem comprising an insulating tube body having an axial bore therethrough extending from end to end; a sleeve-like conducting terminal at each end of said tube adapting said tube ends for electrical connection to a pair of spaced line terminals; a fibre sleeve closely fitting said axial bore and adapted upon fuse operation to emit arc extinguishing gases; a replaceable fusible link extending through said fibre sleeve and having a small fusible element interposed between relatively large flexible end terminal connected conductors adapted to be connected to said spaced line terminals to provide a normal current carrying connection therebetween; a resistor layer of high electrical resistivity surrounding said tube body and extending into said sleeve-like conducting terminals to electrically connect said sleeve-like terminals for reducing the potential difference between the fusible link and the exterior surface of said insulating tube to a degree sufficient to substantially prevent corona troubles along the surface of said fusible link within said insulating tube body; and an outer layer of suitable insulating material surrounding said resistive layer between said sleeve-like tube terminals adapted to protect said resistive layer from exposure to the deleterious effects of the surrounding atmosphere.

2,660,645
FLAME DETECTOR
Justin A. Deubel, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application September 20, 1950, Serial No. 185,797
8 Claims. (Cl. 200—136.5)



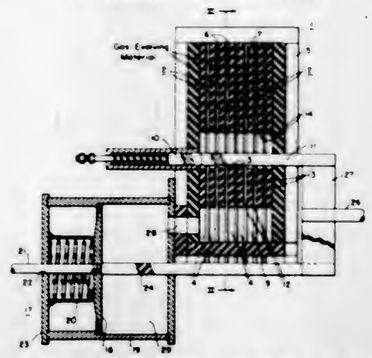
5. A hermetically sealed switch assembly adapted for mounting within the blast tube of an oil burner comprising: an open-ended outer casing, switch elements mounted within said casing, a closure member for the open end of said casing adapted to receive radiant heat from the burner flame, and external terminal means extending through the wall of said casing opposite said closure member, and fusible means hermetically sealing the opening in said casing through which the terminal means extends.

2,660,646
THERMOSTATIC SWITCH
George H. Fritzinger, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application August 24, 1951, Serial No. 243,470
11 Claims. (Cl. 200—137)



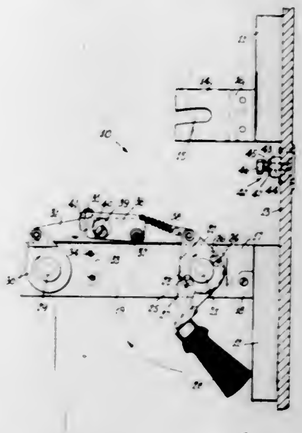
1. A thermostatic switch comprising a frame member of a material having a relatively high coefficient of expansion, a Z strip of a material having a relatively low coefficient of expansion disposed along the length of said frame member, means securing the ends of said strip to end portions of said frame member, means at one end of said frame member constraining one apex portion of said Z strip to movement lengthwise of the frame member, and a switch on said frame member operable by the other apex portion of said Z strip in response to transverse movement thereof caused by longitudinal expansion of said frame member.

2,660,647
CIRCUIT INTERRUPTER
Herbert L. Rawlins, deceased, late of Pittsburgh, Pa., by Charlotte M. Rawlins, administratrix, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 18, 1950, Serial No. 162,666
18 Claims. (Cl. 200—144)



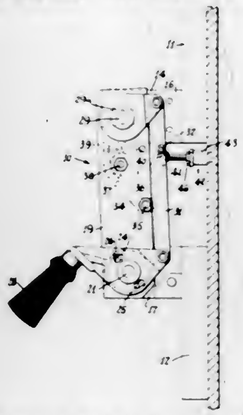
1. A circuit interrupter including a substantially enclosed arc chute, means defining a storage space adjacent one end of the arc chute, continually open venting means disposed adjacent the other end of the arc chute, a plurality of spaced gas-evolving insulating plates, means for establishing an arc adjacent the gas-evolving insulating plates within the arc chute between the continually open venting means and the storage space, and the evolved gas being collected in the storage space to pass through the arc stream during low instantaneous values of arcing current to effect the extinction thereof.

2,660,648
ELECTRIC SWITCH
Fred E. Luebkert, Brooklyn, N. Y., assignor of one-half to Maxwell E. Sparrow, New York, N. Y.
Application February 16, 1950, Serial No. 144,439
9 Claims. (Cl. 200—170)



1. An electric switch comprising an insulating panel; a pair of spaced apart posts mounted upon said panel, one of said posts constituting a fixed contact; a movable contact carried by the other of said posts and movable into and out of engagement with said fixed contact; clamping means at each of the opposite ends of said movable contact for exerting pressure between said movable contact and said posts in the switch closed position of said movable contact; operating means including a connecting rod operatively extending between said clamping means and movable relative to said movable contact in one direction to effect the clamping action of said clamping means and in the opposite direction to release the clamping action; and a locking assembly operative to prevent movement of said connecting rod in said one direction during switch closing movement of said movable contact, said locking assembly including motion arresting means carried by said movable contact and by said connecting rod adapted to lockingly engage when said movable contact is in switch open position and said clamping means are released, and unlocking means carried by said panel engageable with said motion arresting means after said movable contact has reached the end of its travel in the closing direction and effecting the release of the locking engagement thereof to permit movement of said connecting rod in said one direction for effecting the clamping action of said clamping means, said motion arresting means including a laterally extending element, and a pivoted member having a lateral projection engaging said element beyond the axis thereof when said movable contact is in switch open position, said unlocking means being engageable with said pivoted member when said movable contact is in switch closed position and effecting the rocking of said pivoted member for positioning said lateral projection above the axis of said element, said unlocking means including a headed member adjustably movable relative to said panel for regulating the engagement of said headed member with said pivoted member with respect to the position of said movable contact.

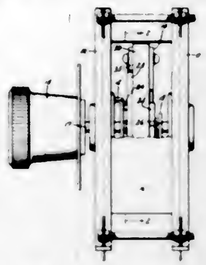
2,660,649
ELECTRIC SWITCH
Fred E. Luebkert, Brooklyn, N. Y., assignor of one-half (½) to Maxwell E. Sparrow, New York, N. Y.
Application April 6, 1950, Serial No. 154,397
9 Claims. (Cl. 200—170)



1. In an electric switch including a fixed contact, a cooperating contact movable into and out of engagement with said fixed contact, clamping means for exerting pressure between said contacts in the switch closed position thereof, and an operating member for said clamping means movable longitudinally relative to said movable contact in one direction to effect the clamping action of said clamping means and in the opposite direction to release the clamping action; locking means for preventing movement of said operating member in said one direction when said movable contact is in switch open position comprising a fixed abutment carried by said operating member, a bell crank pivoted to said movable contact and swinging in a plane parallel to the plane of movement of the latter, said bell crank being formed with a lateral projection spaced from the axis of pivoting and movable into and out of the path of travel of said fixed abutment moving with said operating member, means constantly urging said bell crank projection into the path of travel of said abutment to prevent longitudinal movement of the latter in the direction for effecting the clamping action of said clamping means and including a spring member interposed between said bell crank and said movable contact constantly urging said bell crank to rock in the direction of movement of said movable contact in travelling to switch closed position, adjustable means carried by said movable contact and engaging said bell crank for limiting the movement of said bell crank in the spring urged direction, and lock releasing means engaging said bell crank when said movable contact is in the switch closed position and moving said bell crank projection out of the path of travel of said abutment whereby said operating member may be moved to effect the clamping action of said clamping means.

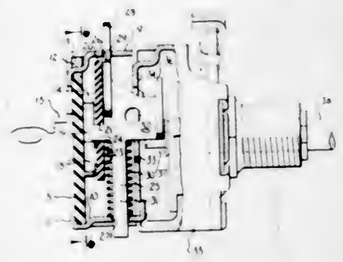
2,660,650
RHEOSTAT OPERATING MECHANISM
Ernest F. Goetz, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 27, 1951, Serial No. 212,982
13 Claims. (Cl. 201—48)

1. An operating mechanism comprising, a rotatable member having a detent opening therethrough, a pair of rotatable disks positioned respectively adjacent opposite surfaces of said member in substantially parallel relation therewith, detent engaging means positioned on the inner surface of each of said disks in position to register with said detent opening at a predetermined position of said mechanism, stop means



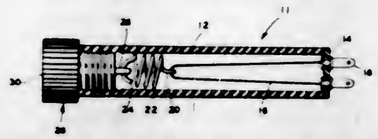
preventing one disk from rotating in one direction beyond said position and the other disk from rotating in the other direction beyond said position, and a detent movably positioned in said opening for engaging either of said detent engaging means for rotating said one disk when said member is rotated in one direction and said other disk when said member is rotated in the other direction.

2,660,651
ELECTRIC SWITCH
Arthur M. Daily and Mervin B. Arisman, Elkhart, Ind., assignors to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana
Application July 26, 1952, Serial No. 301,116
8 Claims. (Cl. 201—55)



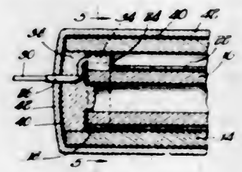
7. In an electrical control device of the character described: a unitary stamped sheet metal cylindrical case having a small diameter end portion and a large diameter end portion; an insulating base across each end of the case; a rheostat mounted in the large diameter portion of the case and including a rotatable actuator passing through the adjacent base with its inner end accessible to the space within the small diameter end portion of the case; an electric switch within the small diameter end portion of the case including a movable contactor; and means for actuating the switch contactor during part of the rotation of the actuator, including a pitman having its opposite end portions slidably passed through diametrically opposite holes in the small diameter end portion of the case; and transiently engageable driving lugs on the actuator and said pitman.

2,660,652
VARIABLE RESISTANCE DEVICE
Sidney R. Greene, New Haven, Conn., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application October 15, 1952, Serial No. 314,922
9 Claims. (Cl. 201—55)



1. A variable resistance device of the class described comprising an electrical conductor, means supporting the conductor in the form of a loop, and means engaging said loop for providing one or more additional loops in said conductor to thereby vary the effective resistance of the device.

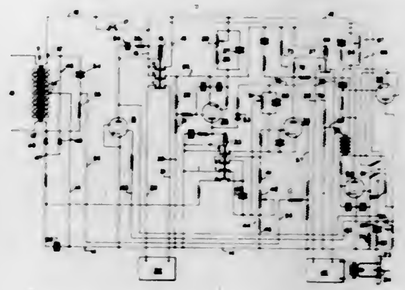
2,660,653
RESISTOR AND METHOD OF MANUFACTURE
Louis H. Berkelhamer, Chicago, Ill., assignor to David T. Siegel, Glencoe, Ill.
Application April 5, 1950, Serial No. 154,183
6 Claims. (Cl. 201—67)



1. An electrical unit comprising a body portion, a circuit impedance element carried by said body portion, a coating of insulating material overlying said circuit element to provide insulation therefor, sealing means for the end of said body portion, and lead means including a relatively heavy wire portion connected to said circuit element and projecting through said sealing means and in sealed contact therewith, said sealing means and said relatively heavy wire portion having substantially equal coefficients of thermal expansion to resist cracking or breaking of the seal therebetween, said lead means also including a relatively light wire portion connected to the projecting end of said relatively heavy wire portion to assume substantially all bending stresses with resultant elimination of tendency toward cracking or breaking the seal.

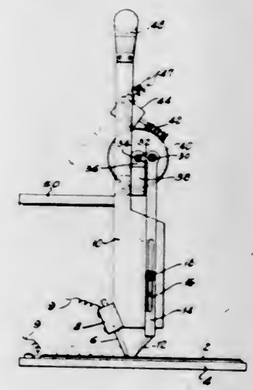
2,660,654
TIMING AND SEQUENCING CIRCUIT
Joseph J. Riley and Richard Alm, Warren, Ohio, assignors to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio
Application October 19, 1951, Serial No. 252,148
11 Claims. (Cl. 219—4)

6. In a control circuit for electric resistance welding apparatus of the type having a weld contactor adapted to control the flow of weld current the combination of a source of pulsating power, a gaseous discharge device having an anode, cathode and control grid, said anode and cathode being connected to said power source, switching means for controlling the application of anode-cathode potential to said discharge device, a control grid circuit for said discharge device including a capacitor-potentiometer time constant network, means to charge said capacitor, switching means for said control grid circuit having normally closed contacts connecting said capacitor with said charging means, and normally open contacts connecting said capacitor with said grid, the arrangement being such that when said normally open contacts are closed a positive control grid signal is placed on said discharge



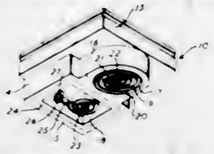
device to cause conduction therein, means associated with said grid circuit operative when said switching means is energized to place a negative grid bias on said discharge device, said positive signal being initially of greater magnitude than said negative bias, switching means associated with said discharge device operative in response to conduction therein to energize said weld contactor.

2,660,655
WALKING WELDER
Edward R. Powell, North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application December 16, 1952, Serial No. 326,196
9 Claims. (Cl. 219—4)



1. In a welding apparatus, an electrode having an end portion disposed for contact with a surface of work to be welded, a foot member adjacent said electrode and movable relative thereto over a path having components extending generally perpendicular to and parallel with said surface, and means for moving said foot member into and out of contact with said surface along said path, said generally perpendicular component being of sufficient length to lift said electrode from contact with said surface.

2,660,656
DISTRIBUTOR HEATER
Stanley Alvin Wilkie, Muskegon, Mich.
Application May 16, 1951, Serial No. 226,559
2 Claims. (Cl. 219—19)



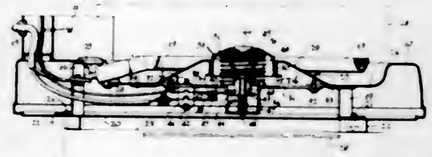
1. A heater for an electrical high tension distributor of the class employed for internal combustion engines, comprising in combination: a body adapted to be mounted within a distributor; open chambers in said body defined by a pair of separate open cavities disposed therein in side by side relationship; electrical heating means in one of said chambers; a thermo-responsive switching member disposed in the other of said chambers and having electrical switching contacts; thermal insulating means substantially isolating said thermo-responsive member from said body; means electrically connecting said electrical heating means to said body; and separate means electrically connecting said heating means and said thermo-responsive member electrically in series.

2,660,657
OFF-PEAK ELECTRIC WATER HEATING SYSTEM
John K. Ostrander, Philadelphia, Pa.
Application May 23, 1952, Serial No. 289,508
1 Claim. (Cl. 219—38)



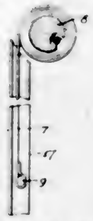
An automatic off-peak system for controlling the heating of water in a hot water supply tank having a cold water inlet at the bottom, a hot water outlet at the top, and an electric heating element in the bottom, said system including a thermal conductive plate attached to the outer surface of the tank shell and extending partway of the height of the latter from a point immediately above the level of the heating element; a diaphragm constructed of a material low in thermal conductivity and providing a narrow upright water channel within the tank in the region of the said plate; a thermostat switch mounted adjacent the bottom of said plate; a second thermostat switch with a lower temperature setting mounted adjacent the top of said plate at an intermediate level in the tank; a continually operating timer with two switches interposed respectively with the thermostatic switches and the heating element in interlocked circuits; and a relay actuated upon closing of the upper of the two thermostat switches for closing the corresponding timer switch, thereby to establish the circuit controlled by said timer switch and to thereafter hold said circuit closed, notwithstanding opening of said upper thermostat switch, until the lower thermostat switch opens when all of the water in the tank is heated.

2,660,658
COOKING APPARATUS
Robert J. Wagner, Philadelphia, and Harvey E. Hortman, Jr., Southampton, Pa., assignors to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 12, 1951, Serial No. 231,226
13 Claims. (Cl. 219—43)



13. In an electric cooking apparatus, an electric heating unit on which a cooking vessel may be placed, a switch in circuit with said heating unit, operating means for said switch, a spring-biased member depressible by the outer surface of a cooking vessel, and a thermomotive element carried by said member and engageable with said switch-operating means to effect closure of said switch upon depression of said member, said element responding to excessive temperature rise of said vessel and disengaging itself from said switch-operating means to effect opening of said switch, said element upon removal of said vessel resetting itself for subsequent operation when a cooking vessel is again placed on the heating unit.

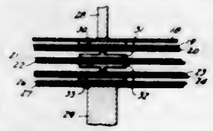
2,660,659
HEATED ROLLER BLIND
Bo G. A. Särnö, Stora Essingen, Stockholm, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application August 10, 1950, Serial No. 178,583
Claims priority, application Sweden
August 11, 1949
5 Claims. (Cl. 219—46)



1. An electrically heated roller blind comprising a supporting roller, two electrodes extending longitudinally of the roller and having a central gap between their adjacent ends, a substantially rectangular sheet of comparatively low conductivity and consisting of synthetic resin material with carbon powder mixed therewith to form a coherent skeleton therein, means securing one end of said sheet to the roller with the carbon

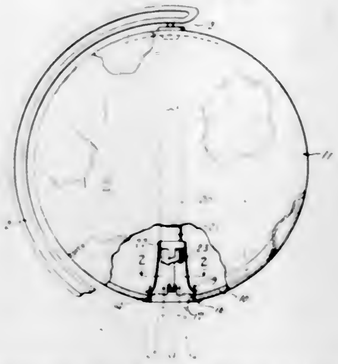
powder in contact with said electrodes, a centrally disposed slot formed in said sheet in alignment with said gap and extending from the said end of the sheet to a point spaced from the opposite end of the sheet to give said sheet a U-formation, and a plastic insulating layer adhering to one of the surfaces of said sheet.

2,660,660
ARRANGEMENT OF ELECTRODES FOR DIELECTRIC RADIO-FREQUENCY HEATING OF NONCONDUCTORS, FOR EXAMPLE, THERMOPLASTIC MATERIALS
Tankred von Hauteville, Stuttgart, Wurttemberg, Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application January 26, 1950, Serial No. 140,712
Claims priority, application Germany
January 29, 1949
5 Claims. (Cl. 219—47)



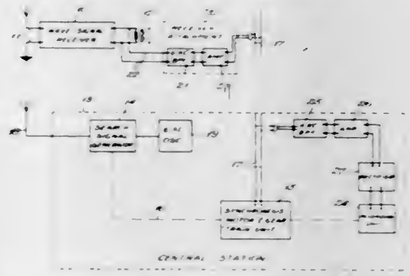
5. An arrangement of electrodes for dielectric heating of thermoplastic material comprising a pair of spaced electrodes, a plurality of intermediate electrodes having ribbed portions, said electrodes being maintained in back-to-back relation intermediate plies of thermoplastic work material and insulated from said spaced electrodes by intervening plies of thermoplastic work material, the ribbed portions providing concentration of heat from high frequency energy applied to said spaced electrodes to the work material intermediate each of said ribbed portions and the opposed electrode of said spaced pair.

2,660,661
MOUNTING DEVICE FOR ILLUMINATED GLOBES
Raymond R. Dupler, Toledo, Ohio
Application January 21, 1950, Serial No. 139,823
1 Claim. (Cl. 240—2)



A mounting for a lamp within a globe having an aperture therein comprising a flat annulus adapted to bear against the outside of the globe, said annulus having a relatively short tube adapted to extend through the globe aperture, a series of tabs integral with said tube adapted to be bent against the inside of the globe for retaining the annulus in place, tabs integral with said tube coaxial with said tube having apertured ends adapted to be disposed within the globe, a guide member comprising a band of smaller diameter than said annulus, spring legs integral with said band and depending therefrom, and outwardly inclined end portions on said legs adapted to be flexed into the apertures in said last tabs thereby to hold said guide member in position of use in alignment with said annulus.

2,660,662
SEARCH SIGNAL APPARATUS FOR DETERMINING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS
Serge A. Scherbatskoy, Tulsa, Okla., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois
Application October 24, 1947, Serial No. 781,988
26 Claims. (Cl. 250—2)

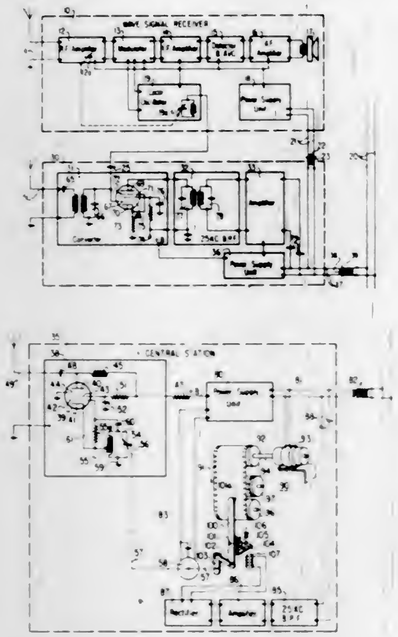


1. In a device for determining the listening habits of users of a wave signal receiver capable of receiving at any time one of a plurality of carriers radiated from transmitters disposed within the reception range of said receiver comprising generating means for generating a search signal receivable by said receiver in addition to one of said radiated carriers including means for controlling said generating means to produce a search signal variable in frequency in a predetermined manner throughout a predetermined period of time, means for further modifying said search signal to so control the spectral composition thereof to produce a search tone in said receiver when detected therein at the instant during said period of time that the frequency of said search signal bears a predetermined relationship to the frequency of the pass band to which the receiver is tuned, and means linked to said receiver and responsive to the production of said search tone therein for producing an indication of the pass band to which said receiver is tuned.

2,660,663
SEARCH SIGNAL APPARATUS FOR DETERMINING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS
Henry A. Rahmel, Evanston, Ill., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois
Application October 24, 1947, Serial No. 781,782
19 Claims. (Cl. 250—2)

1. In a device for determining the tuning condition of a tunable wave signal receiver, means located at a station remote from said receiver for generating and transmitting to said receiver a radio frequency signal of variable frequency, response producing means at said receiver for receiving said signal and including means for combining said signal with a signal derived from said

receiver and uniquely representative of the tuning condition thereof to produce a variable frequency beat frequency signal, means for transmitting said beat frequency signal to said station, only when of a predetermined frequency



value, and means at said station jointly responsive to the receipt of said transmittable beat frequency signal and the operation of said means for generating said radio frequency signal for recording the tuning condition of said receiver.

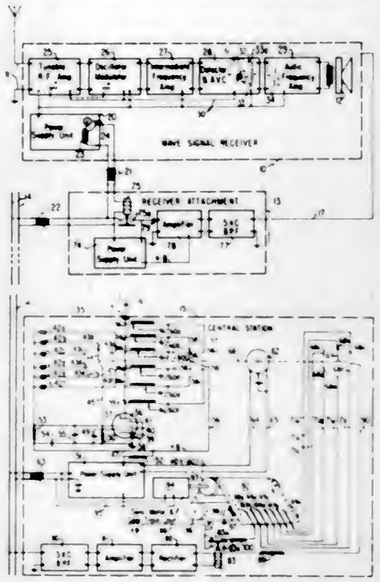
2,660,664

SEARCH SIGNAL APPARATUS FOR DETERMINING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS

Joseph M. Richards, Tulsa, Okla., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois

Application October 24, 1947, Serial No. 781,786
9 Claims. (Cl. 250—2)

2. A device for producing a record of the tuning condition of a wave signal receiver comprising a crystal oscillator for cyclically generating a search signal receivable by said receiver, means for controlling said oscillator so that each cycle of said search signal comprises a signal variable in frequency in a stepwise fashion, each step bearing a predetermined relationship to one of a plurality of different transmitting frequencies likely to be tuned in by said wave signal receiver, said search signal producing a response in the form of a signal of a predetermined frequency in said receiver at the instant during the search cycle that a frequency step of said search signal bears said predetermined relationship to the frequency of a transmitter tuned in by said receiver, means at said receiver for filtering and amplifying said response, means for transmitting said response to a point remote from said receiver, and means at said remote point for further amplifying said response and recording the same with reference to time where-



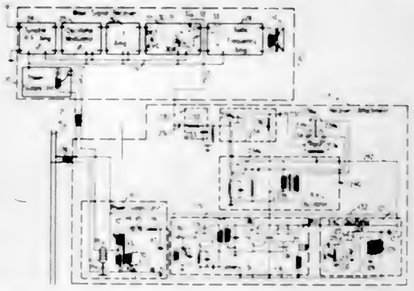
by a record of the tuning condition of said receiver is obtained.

2,660,665

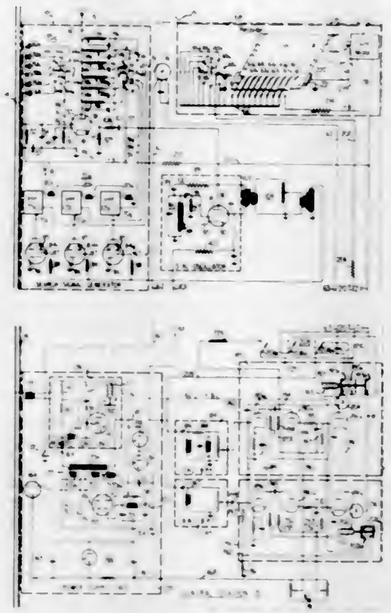
SEARCH SIGNAL APPARATUS FOR DETERMINING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS

Serge A. Scherbatskoy, Tulsa, Okla., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois

Application October 24, 1947, Serial No. 781,989
8 Claims. (Cl. 250—2)



1. In combination with a wave signal receiver tunable over a frequency range to receive any one of a plurality of signals radiated from different transmitters operating at different frequencies within the frequency range of said receiver, search signal generating means for generating a search signal variable in frequency over a predetermined frequency range which is at least partially coextensive with the frequency range over which said receiver is tunable, means for varying the frequency of said search signal generating means on a cyclic basis and for changing the frequency of said search signal in steps during each frequency change cycle, the frequencies of said search signal at said steps being respectively equal to the operating frequencies of different ones of said transmitting stations, means for transmitting said search signal to said receiver for reception thereby, means for modulating said search signal to produce a detectable modulation signal in said receiver when received thereby at the point in each frequency change cycle of said



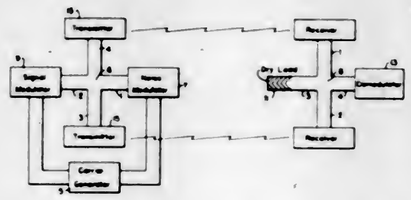
search signal when the frequency of said search signal is equal to the operating frequency of the transmitting station from which signals are being received by said receiver, and means linked to said receiver and responsive to detection of said modulation signal for producing an indication of the transmitting station to which said receiver is tuned for signal reception.

2,660,666

SECRECY TRANSMISSION SYSTEM

Edward J. Duckett and George A. Klotzbaugh, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 5, 1950, Serial No. 136,996
8 Claims. (Cl. 250—6)



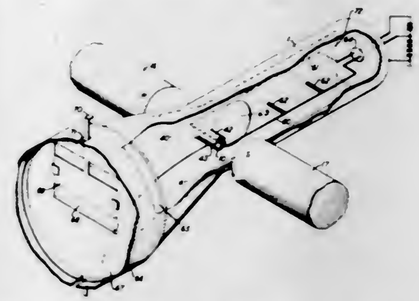
1. In combination: a waveguide hybrid junction, a signal modulated carrier generator connected to a first branch of said waveguide hybrid junction, and a noise modulated carrier generator connected to a second branch of said waveguide hybrid junction.

2,660,667

ULTRAHIGH FREQUENCY RESONATOR

Arnold E. Bowen, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 23, 1943, Serial No. 476,821
30 Claims. (Cl. 250—17)



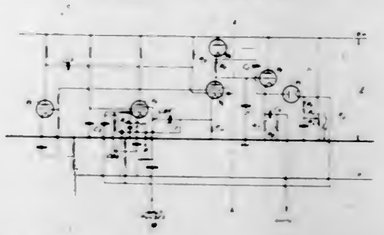
23. In combination, a hollow-pipe type wave guide for transmitting electromagnetic waves dielectrically, exciting means for establishing electromagnetic waves in said guide, and means including a wall member associated with said guide provided with an aperture tuned to the frequency of said exciting means and having an appreciable dimension perpendicular to a transverse component of electric field for effecting a concentration of the potential due to said waves and for effecting current flow in said wall member thereby producing in effect a dipole for radiation purposes.

2,660,668

APPARATUS FOR FREQUENCY DIVISION

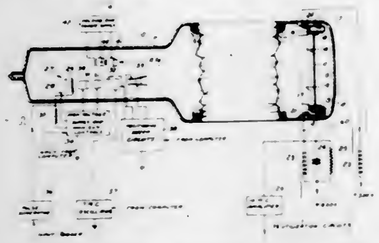
John C. Williams, Cambridge, Mass.

Application December 15, 1949, Serial No. 133,057
24 Claims. (Cl. 250—27)



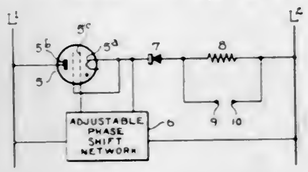
1. In a device for frequency division, a circuit including at least two electron discharge paths and having two modes of conduction of which the first is stable and the second transient, said circuit being adapted to generate a sawtooth wave of voltage while in the second of its two said modes of conduction, two signal channels connecting the circuit with a source of pulse signals having the repetition rate of the frequency to be divided, said circuit being adapted to be shifted in its mode of conduction each time a pulse reaches it through either of the said signal channels, means to render one of said channels conducting only when said circuit is in the first of its said modes, and means to render the other of said channels conducting only when said circuit is in the second of its said modes and when the sawtooth wave of voltage exceeds a given value, said second-named means including a threshold detector to which the sawtooth voltage of said circuit is applied.

2,660,669
ELECTRON DISCHARGE DEVICE
Charles F. West, Stoughton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application March 16, 1950, Serial No. 150,040
9 Claims. (Cl. 250—27)



1. An information storage device comprising a storage member having a storage surface, means for storing informational charges on said surface, means for cyclically scanning a portion of said surface, and output means tuned to a harmonic of the scanning frequency of said scanning means.

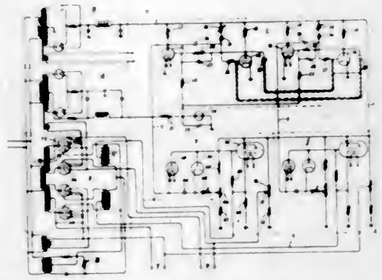
2,660,670
PEAKED VOLTAGE CIRCUIT
William H. Elliot, Whitefish Bay, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application August 16, 1950, Serial No. 179,860
5 Claims. (Cl. 250—27)



1. In combination, a resistor, a semi-conductor element, a grid controlled electron tube having its main conducting path connected in series circuit conducting relation with said resistor and said semi-conductor element, said semi-conductor element being connected in said series circuit in a manner normally blocking current flow through said tube, whereby alternating current passing through said tube provides a voltage of peaked wave form across said resistor, and means for subjecting the control grid of said tube to a conduction initiating potential in the conducting half cycles of said tube.

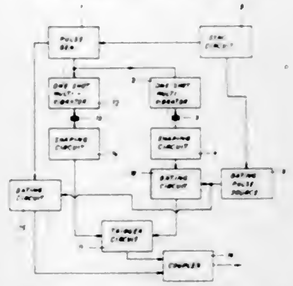
2,660,671
DEVICE FOR PRODUCING RECIPROCATING OR LATERAL MOTION
William C. White and Harold W. Lord, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application September 22, 1950, Serial No. 186,242
3 Claims. (Cl. 250—27)

1. A wave shaping circuit for altering the shape of a square wave of voltage by providing a sharp spike of adjustable width at the beginning of the pulse, said wave shaping circuit comprising an electric valve provided with a control electrode and connected in a cathode follower circuit, a source of bias voltage, and means supplying a voltage signal to said control electrode superimposed on said bias voltage and having an amplitude dependent on the differential of an input voltage wave, said last-mentioned means including a pair of unilateral impedances each having



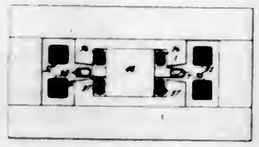
an anode and a cathode and having its anode connected to said control electrode, a capacitor connected between the cathodes of said unilateral impedances and a resistor connected between the cathode of one of said impedances and said bias voltage source.

2,660,672
METHOD AND MEANS FOR GENERATING IMPULSES OF LARGE KEYING RATIO
Rudolf Urtel, Pforzheim, Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 15, 1952, Serial No. 271,665
2 Claims. (Cl. 250—27)



1. A system for generating impulses of a large keying ratio and a predetermined repetition frequency comprising a pulse generator for generating a train of short pulses of said repetition frequency and having a long impulse interval spacing, a delay device, means for applying the train of pulses to said delay device to produce a second train of pulses delayed by a train less than said long impulse interval, a doubly stable trigger circuit, a coupler for applying pulses from said first train to said trigger circuit to operate it into one condition of stability, a coupler for applying the delayed pulses of said second train to said trigger circuit to operate it into its other condition of stability, a gating pulse generator for generating gating pulses having a duration of a plurality of periods of said repetition frequency and related in time spacing to said first named pulse generator, a gating circuit in one of said couplers and means to apply said gating pulses to said gating circuits to release the pulses occurring for the duration of said gating pulses to said trigger circuit, to produce a composite pulse of a length determined by said gating pulse.

2,660,673
MAGNETIC INDUCTION ACCELERATOR
Willem F. Westendorp, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 15, 1945, Serial No. 616,634
1 Claim. (Cl. 250—27)



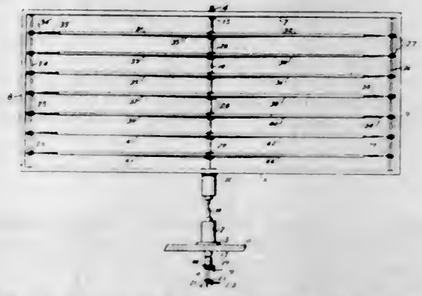
A magnetic induction accelerator comprising the combination of an annular container in which electrons may be accelerated in an orbital path, means for introducing electrons therein, a magnetic core having a member coaxial with said container, a set of windings for said core concentric to and of larger diameter than said container, a source of alternating current connected across said windings to energize said windings with alternating current, a series circuit including a second set of windings for said core member of lesser diameter than said annular container, an adjustable resistor shunted by a capacitor, and a source of direct current connected across said first mentioned windings to superimpose a biasing direct current upon the alternating current in said first mentioned windings, said second set of windings having a number of turns correlated with the number of turns in said first mentioned set of windings to provide an induced alternating voltage essentially equal to and opposing the alternating voltage of said source of alternating voltage, and a bleeder circuit comprising a reactor connected across said second set of windings to by-pass some of the unidirectional component of said second set of windings.

2,660,674
SLOTTED ANTENNA SYSTEM
George H. Brown, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 14, 1948, Serial No. 54,462
26 Claims. (Cl. 250—33)



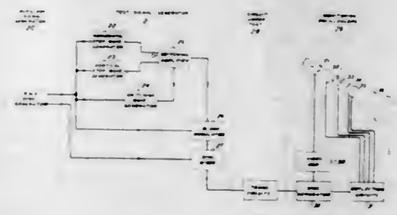
1. An antenna system comprising a radiator element of hollow cylindrical conductive tubing having four longitudinally arranged slots therein and equally spaced about the periphery thereof, a first length of transmission line having one conductor connecting the edges of diametrically opposed slots lying on the same side of a plane passing diametrically through said cylindrical tubing and between the longitudinal edges of said slots and having the other conductor connecting the remaining edges of said slots, a second length of transmission line connecting the edges of the other diametrically opposed slots lying on the same sides of a plane passing diametrically through said cylindrical tubing and between the longitudinal edges of said other slots, and means to apply radio frequency energy in phase quadrature to the midpoints of said first and second lengths of transmission line thereby to produce a rotating radio frequency field about said radiator element.

2,660,675
VARIABLE ANTENNA
Nicholas C. Amen, Glendale, Calif.
Application May 28, 1951, Serial No. 228,653
8 Claims. (Cl. 250—33.65)



1. In an antenna device having a standard with means supporting a frame having materially spaced apart lateral uprights, a journalled mast extending upwardly from the standard and along a line intermediate the uprights and substantially parallel therewith, a spool and pulley unit fixed to the mast, a pair of flexible conductor ribbons having their proximate ends fixed to the spool and their other ends directed in opposite directions toward their respective uprights, a rod parallel to and supported near each upright, a pulley wheel on each rod, a cable fixed to the distal end of one conductor ribbon and extending around its respective pulley wheel and the other end of the cable fixed to said pulley on the mast, another cable fixed to the distal end of the other conductor ribbon and extending around its respective pulley wheel and having its other end fixed to the pulley on the mast, and means for turning the mast so as to wind or unwind the conductor ribbons and cables to vary the wave lengths of the ribbons.

2,660,676
SIGNAL GENERATING DEVICE
Stephen Doba, Jr., Parsippany, and John W. Ricke, Basking Ridge, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application October 8, 1947, Serial No. 778,660. Divided and this application February 15, 1950, Serial No. 144,306
4 Claims. (Cl. 250—36)



1. In a television signal generator, means for generating a blanking signal, means for generat-

ing a synchronizing signal, means for generating from said blanking signal a vertical step wave having constant amplitude during a period less than a field scanning period but varying in amplitude by discrete steps during each field scanning period, means for generating from said blanking signal a horizontal scan step wave of line scanning period varying in amplitude by discrete steps during each line scanning period, and means for combining in predetermined sequence said vertical step wave and said horizontal scan step wave with said blanking signal and with said synchronizing signal to produce a composite test signal.

2,660,677

ION SELECTOR

Alfred O. C. Nier, Minneapolis, Minn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application April 12, 1948, Serial No. 20,393
6 Claims. (Cl. 250—41.9)



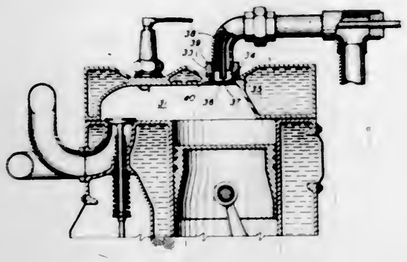
1. In a mass spectrometer having an ion producing and accelerating device, an analyzer, and an ion collecting plate, the improvement comprising means for producing a relatively weak magnetic field transverse to the direction of ion movement ahead of the collecting plate for rejecting stray electrons, the strength of said field being insufficient to appreciably deflect ions.

2,660,678

MEASUREMENT OF FILMS AND DEPOSITS

Harrison W. Sigworth and Bernard A. Fries, El Cerrito, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application February 8, 1951, Serial No. 209,968
6 Claims. (Cl. 250—83)



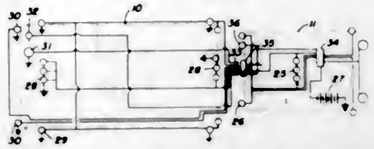
1. A device for use in measuring deposits formed within a chamber, comprising a plug adapted to be detachably mounted in a wall of said chamber and having a portion of said plug exposed within said chamber, said portion having a surface upon which deposits are formed, a radioactive material intimately associated with said surface, said plug being formed with a hollow interior portion, and means to circulate a temperature controlling medium through said hollow interior portion.

2,660,679

COUPLING SYSTEM FOR INTERCHANGEABLY CONNECTING THE WIRING SYSTEMS OF TRACTORS AND TRAILERS

Arthur E. Hunt, Albany, N. Y.

Application March 6, 1952, Serial No. 275,201
4 Claims. (Cl. 307—10)



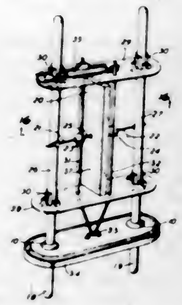
4. An electric coupling system for connecting the wiring systems of a tractor and a trailer having corresponding electrical circuits comprising a fixedly connected connecting plug member of the trailer, said plug member having connector elements connected to the electrical circuits forming the wiring system of the trailer, a connecting plug of said tractor connected to the electrical circuits of the tractor and adapted to connect individual electrical circuits of the tractor with individual connector elements of the connecting plug member on the trailer, and means for shifting the connection of each of the electrical circuits of the tractor to a selected one of said connector elements, said means including a switch bank having a plurality of switches equal to the number of said connector elements, each of said switches including a movable element capable of being moved to any of a plurality of positions, means for making a connection in every position with one of the electrical circuits of the tractor, and means for making a connection with each one of the connector elements of the connecting plug member of the tractor, said connecting plug member of said tractor being a dual plug member provided with two connector means, each of said connector means being provided with a different number of connector elements for connection with the corresponding connector elements on a selected trailer.

2,660,680

CRYSTAL TEMPERATURE CONTROL MEANS

Lawrence F. Koerner, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 9, 1950, Serial No. 178,473
14 Claims. (Cl. 310—8.1)



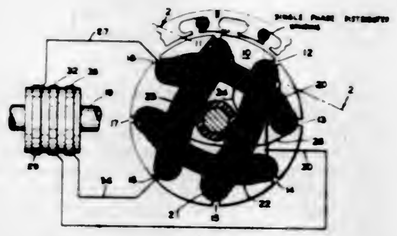
1. A piezoelectric crystal unit comprising a supporting structure including a pair of metallic supports, a piezoelectric crystal mounted by said structure, electrodes on said crystal, electrical connections between said electrodes and said supports, and heating means for controlling the temperature of said crystal, during operation of said crystal, comprising a pair of resistance elements extending in parallel relation with said crystal and mounted by said structure and on opposite sides of said crystal, said resistance elements being in electrical connection with and energizable through said structure.

2,660,681

WINDING ARRANGEMENT FOR VARIABLE TRANSFORMERS

Emerson Horne, Palisades Park, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application March 1, 1949, Serial No. 79,100
9 Claims. (Cl. 310—198)



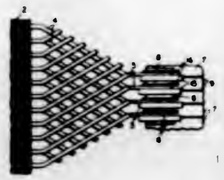
1. A resolver comprising a core structure having a plurality of slots, a pair of windings having the same number of turns in quadrature with one another and each winding comprising a pair of coils disposed in said slots, and each slot receiving a portion of only one coil.

2,660,682

COMMUTATOR CONNECTION FOR DYNAMO-ELECTRIC MACHINES

John W. Clokey, Pittsburgh, and Ernest M. Laughner, Jeannette, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 4, 1949, Serial No. 125,416
17 Claims. (Cl. 310—234)



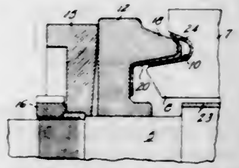
1. A construction for providing a member for a dynamo-electric machine, said construction comprising an armature member having a plurality of armature conductors, a cooperating circular member having a plurality of axially extending circumferentially spaced slots with metal therebetween, said armature conductors having a plurality of conductor ends in said slots, and a joint-forming material and a wedge in each of said slots wedging a number of said conductor ends against the metal at the associated slot, with joint-forming material between such conductor ends and the adjacent metal.

2,660,683

COMMUTATOR WITH SELF-WEDGING RETAINING RINGS

William F. King, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application April 16, 1951, Serial No. 221,228
6 Claims. (Cl. 310—236)



1. A commutator cylinder comprising a plurality of commutator bars each having an inclined surface at one end, insulation disposed between adjacent said bars, a retaining ring having an inclined surface of electrically nonconductive rigid material which bears directly against said inclined surfaces of said bars, the common generatrix of said inclined surfaces forming with the axis of said cylinder an angle which is less than the angle of friction for said surfaces, and means forcing said ring axially against said inclined end surfaces of said bars to cause said bars to move radially inward while bearing against adjacent bars through said insulation, said rings wedging themselves on said bars so as to follow all axial movements of said bars for maintaining clamping pressure thereon.

2,660,684

ELECTRONIC COLOR TELEVISION

Louis W. Parker, Little Neck, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application February 6, 1948, Serial No. 6,641
3 Claims. (Cl. 313—67)



1. In combination in a cathode ray tube, a luminescent screen and an electronic lens beam deflecting system, the said screen comprising a plurality of light filter groups arranged in parallel to form color filter line elements, the filter elements of each group constituting colored transparent material transmitting one primary color, a film of fluorescent material adjacent to an inner edge face of each of said filter elements, the said electron lens system comprising a plurality of independent line lens elements of mutually insulated lens groups arranged in parallel, each group being relatively longitudinally spaced in different parallel transverse zones and the lens

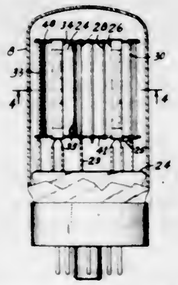
elements of each group being laterally displaced with respect to the corresponding elements of the other groups, the said luminescent screen with the said film of fluorescent material and the said lens groups in longitudinally spaced parallel arrangement being positioned in the path of the scanning beam, each group of lenses being positioned to direct the beam towards the film adjacent a group of filter elements different from those towards which the other groups of lenses direct the beam.

2,660,685

CONTROL ELECTRODE-ANODE STRUCTURE FOR GAS DISCHARGE DEVICES

Edward O. Johnson, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 23, 1952, Serial No. 316,452
8 Claims. (Cl. 313—71)



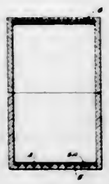
7. A gas discharge device, comprising a sealed envelope having an ionizable medium therein, a pair of insulating members in said envelope, a thermionic cathode extending between said insulating members and supported thereby, a plurality of spaced apart rods extending between said insulating members and spaced from said cathode, said rods being coplanar, the alternate of said rods being control electrode rods and extending through one of said insulating members and being interconnected, the intermediate of said rods being anode rods and extending through the other of said insulating members and being interconnected, and means in said envelope for producing a plasma.

2,660,686

FLUORESCENT SCREEN

Charles W. Putnam, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 19, 1948, Serial No. 34,060
13 Claims. (Cl. 313—109)



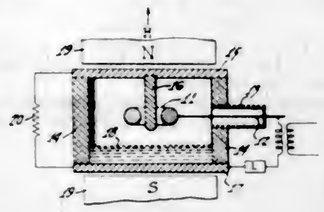
1. A vacuum-tight container containing a glass support having a fluorescent material completely submerged beneath its surface and a coating of photo-electric material on said support.

2,660,687

MERCURY VAPOR RECTIFIER TUBE EMPLOYING MAGNETIC FIELD

John H. Coleman, West Palm Beach, Fla., assignor to Radio Corporation of America, a corporation of Delaware

Application October 30, 1952, Serial No. 317,709
6 Claims. (Cl. 313—161)



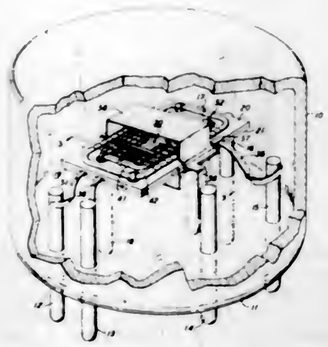
1. A mercury vapor discharge device, comprising a gas tight enclosure, said enclosure comprising a pair of spaced apart cathode disks and insulating means intermediate the periphery of said disks, sealing means joining the ends of said disks and said insulating means in gas tight relation, a mercury pool within said enclosure and normally in contact with one of said disks, an elongated rod connected to the other of said disks and extending toward said mercury pool, said rod and said mercury pool normally being spaced apart, a ring shaped anode within said enclosure and spaced around said rod, conductive means supporting said anode and extending through said insulating means, and magnetic means adjacent said enclosure for applying a magnetic field parallel to said rod.

2,660,688

ELECTRON DISCHARGE DEVICE

Edward J. Walsh, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 9, 1951, Serial No. 214,763
5 Claims. (Cl. 313—257)



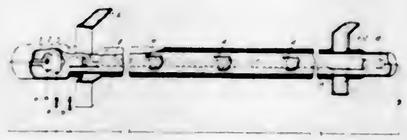
1. An electron discharge device comprising a pair of flat surface insulator members defining a single insulator means, said insulator members having a central aperture therein and mating grooves on their inner surfaces, a cathode positioned in said apertures, said cathode comprising a pair of ceramic rods, a metallic sheet member across said rods and defining a cathode surface substantially parallel to the surfaces of said insulator members, and strap means secured to said rods and extending into said grooves between said insulator members to support said cathode, a frame electrode positioned adjacent said cathode and mounted on the outer surfaces of said insulator means, and an anode encompassing said cathode and said electrode, said anode having portions securing said two insulator members together.

2,660,689

ULTRAHIGH-FREQUENCY VACUUM TUBE

Emile Touraton and René Zwobada, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application June 17, 1948, Serial No. 33,614
Claims priority, application France August 1, 1947
5 Claims. (Cl. 315—3)



1. In a travelling wave amplifier tube having a given longitudinal axis, an electron emitter for emitting a beam of electrons coaxially of said axis and a collector spaced from said emitter for collecting the electrons of said beam; a wave transmission conductor in the form of a helix disposed coaxially of said axis intermediate said emitter and said collector and a plurality of separate damping means for sectionalizing said conductor positioned at spaced points intermediate the ends of said conductor, the resulting sections of said conductor being coupled electrically by the flow of said electron beam along said axis, the means for sectionalizing said conductor including an annular electrode coaxially disposed with respect to said axis through which said beam is adapted to pass.

2,660,690

TRAVELING WAVE TUBE

Francis C. Breeden and Leo C. Eisaman, Flushing, N. Y., assignors to Sylvania Electric Products Inc., a corporation of Massachusetts

Application October 15, 1948, Serial No. 54,676
8 Claims. (Cl. 315—3)



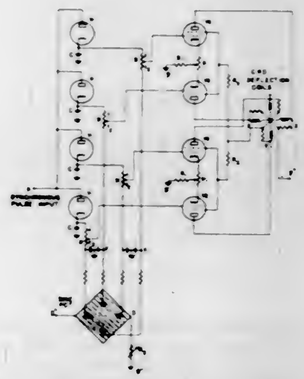
2. A traveling-wave tube having a wire helix, means including an axial magnetic beam focusing device to direct an electron beam axially along the helix, electromagnetic coupling means coupled to at least one end of said helix and a refractory low-loss evacuated envelope snugly fitting and encasing the helix substantially continuously along the length thereof.

2,660,691

SWEEP CIRCUIT

Sidney Bertram, Los Angeles, Calif.

Application August 17, 1944, Serial No. 549,876
11 Claims. (Cl. 315—24)



1. A sweep circuit comprising: first means for obtaining two voltages, each proportional to some function of an angle; second means for establishing a reference voltage; two condensers; third means for intermittently charging said condensers to said reference voltage; two discharge resistors; means for applying each of said two voltages to a respective one of said condensers through a respective one of said resistors; means for obtaining the difference between the voltages across said two resistors; means for applying said difference between said voltages to an indicator.

2,660,692

HIGH-PRESSURE DISCHARGE LAMP

James A. St. Louis, Cleveland Heights, and John Milton Pomfrett, Willoughby, Ohio, assignors to General Electric Company, a corporation of New York

Application March 30, 1950, Serial No. 152,904
7 Claims. (Cl. 315—60)

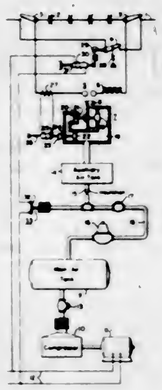
1. An electric discharge device for high temperature operation, comprising a closed envelope including a vitreous alkali-containing material subject to electrolysis and deterioration when placed under substantial electrical stress at said high temperature, an ionizable medium enclosed within said envelope, a pair of main thermionic arc supporting electrodes located within said envelope and provided with external connections through seals at opposite ends thereof, a starting electrode located adjacent one of said main electrodes and provided with an external connection through a seal generally side-by-side with and in close proximity to that of said adjacent main electrode at one end of said envelope, and an external resistance permanently connecting said starting electrode to the opposite main electrode for starting purposes, said starting electrode being constructed to have an electron emission, during normal operation, sufficient to develop a

voltage drop across said resistance such as to reduce the voltage between said starting electrode and said adjacent electrode to a low value and substantially prevent the development of a direct



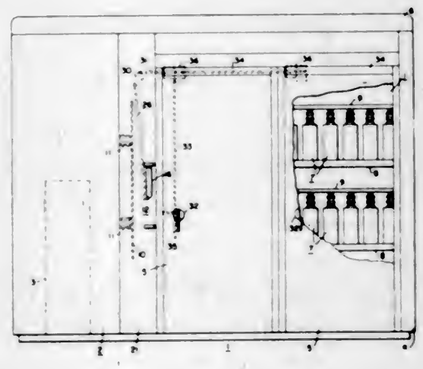
voltage component therebetween, thereby substantially to eliminate electrical stress and resulting deterioration in said material in the vicinity of the seals of said starting and said adjacent main electrode.

2,660,693
PROTECTIVE SYSTEM FOR SERIES CAPACITORS
Ralph E. Marbury, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 18, 1949, Serial No. 110,947
10 Claims. (Cl. 317—12)



5. A series capacitor installation for an alternating-current line comprising a capacitor adapted to be connected in series in said line, a spark gap device connected across said capacitor for protecting the capacitor against overvoltage conditions, said spark gap device having spaced solid electrodes of massive construction to be capable of discharging heavy currents and being adapted to break down and become conducting whenever the instantaneous voltage across the capacitor exceeds a predetermined value, means for directing a blast of air between the electrodes of the spark gap device, and means for starting the air blast immediately upon breakdown of the gap device and maintaining the air blast during substantially the entire duration of an overvoltage condition, whereby the air blast extinguishes the arc in the gap device each time the current passes through zero and prevents reestablishment of the arc unless the instantaneous voltage across the capacitor again rises to substantially said predetermined value.

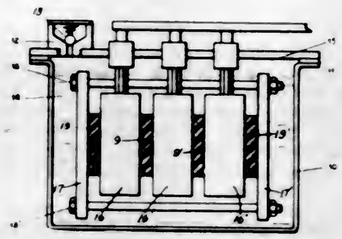
2,660,694
HOUSED CAPACITOR ASSEMBLY WITH INTERLOCKED GROUNDING SWITCH
William H. Cuttino, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 23, 1951, Serial No. 212,387
12 Claims. (Cl. 317—99)



1. A housed capacitor assembly comprising a housing, a plurality of capacitors disposed in the housing and electrically connected together, said housing having doors to permit access to the capacitors, switch means in the housing for grounding the capacitors, said switch means having an open position and a grounding position, and locking means for said doors directly actuated by operation of the switch means, said locking means being adapted to lock the doors in closed position when the switch means is in open position and to release the doors when the switch means is in grounding position.

2,660,695
LOW VOLTAGE ELECTROCHEMICAL CONDENSER OF HIGH SPECIFIC GRAVITY
Henri André, Montmorency, France, assignor to La Soudure Electrique Languepin, a corporation of France
Application September 2, 1950, Serial No. 182,945
Claims priority, application France September 20, 1949
5 Claims. (Cl. 317—230)

1. In an instantaneous discharge electrochemical condenser comprising a tank containing an alkaline electrolyte, a film-like silver anode, a film-like cathode, made of a metal selected from the group consisting of zinc, tin, cadmium, iron and cadmium-plated sheet iron, and a film-like cellulosic interelectrode separa-



tor, the provision of means independent of the tank for mechanically compressing said separator between said electrodes with sufficient pressure for substantially preventing the escape of gaseous discharge.

2,660,696
CRYSTAL CONTACT DEVICE
Emrys Gwynne James and Aubrey Oscar Edgar Lindell, Wembley, England, assignors to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application May 10, 1950, Serial No. 161,126
2 Claims. (Cl. 317—235)



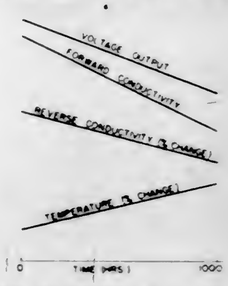
1. An electrical crystal contact device comprising: a body of insulating material; two substantially parallel wires having a predetermined spacing therebetween secured in insulated relation to said body and having the ends thereof extending beyond said body; a semiconducting crystal having a contact surface; and a conductive support maintaining said body and said crystal in fixed relation thereon with said contact surface disposed at an acute angle with reference to the axes of said wires and making a substantially point contact with two corresponding ends of said wires.

2,660,697
SELENIUM RECTIFIER WITH VARNISH INTERMEDIATE LAYERS
Hans Eugen Lauckner, Weissenburg, Bayern, Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 18, 1951, Serial No. 247,161
Claims priority, application Germany September 21, 1950
6 Claims. (Cl. 317—241)



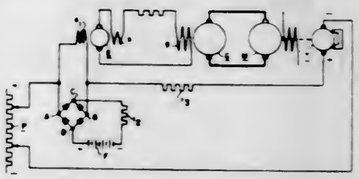
1. Selenium rectifier, in which an intermediate layer of insulating material is placed between the semi-conducting layer and the back electrode for an improvement in the blocking voltage, characterized in that this intermediate layer takes the form of a screen (raster).

2,660,698
SELENIUM RECTIFIER
Donald W. Black, Pompton Plains, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application October 29, 1951, Serial No. 253,612
4 Claims. (Cl. 317—241)



1. A rectifier having a base plate, a layer of selenium on the base plate, a counterelectrode layer on the selenium and an intermediate layer between the selenium and the counterelectrode consisting essentially of a high molecular weight linear polymeric carbonamide deposited from a solution containing a high molecular weight linear polymeric carbonamide soluble in the lower aliphatic alcohols.

2,660,699
VARIABLE VOLTAGE DRIVE
Albert René Jacques Helot, Champagne sur Seine, France, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 23, 1950, Serial No. 151,453
6 Claims. (Cl. 318—144)



1. In a variable voltage drive equipment of the type including a variable speed motor, said motor having a constant field excitation, a generator supplying power to said motor armature, an exciter supplying said generator field winding, said exciter having at least one separate field energizing winding in order to regulate the speed of said motor and having a field series self energizing winding in order to increase the speed regulation accuracy, said self-energizing winding having ampere turns which, if alone, would produce an E. M. F. which strictly compensates the ohmic voltage drop in the field energizing circuit of said generator, the combination therewith of a supplementary acceleration limiting winding on said exciter and means for limiting the acceleration or deceleration of said motor by limitation of the value of the algebraic sum of the ampere turns of said separate energizing windings and of said supplementary acceleration limiting winding on said exciter to a predetermined value, this predetermined value being the value which produces the rate of change with respect to time of the flux of said generator in accordance with the maximum fixed value of acceleration or deceleration.

2,660,700

HARMONIC ANALYZER AND SYNTHESIZER APPARATUS

William O. Gates, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application October 28, 1950, Serial No. 192,662
21 Claims. (Cl. 318—162)



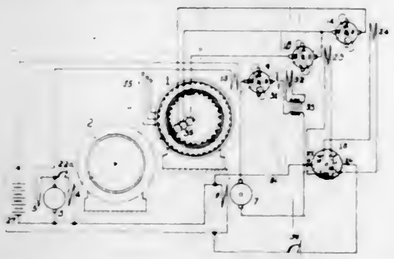
9. Apparatus for controlling the position of a machine part as a function of the angular position of a reference cycle comprising, in combination, a machine part arranged to be variably positionable, means for generating a plurality of voltages varying sinusoidally with respect to said cycle at consecutive harmonic frequencies of said cycle, and means for controlling the position of said part as a function of a control voltage comprising the sum of said voltages.

2,660,701

SPEED CONTROL OF ELECTRIC MACHINES

Joseph Maximus Pestarini, Staten Island, N. Y.

Application September 23, 1948, Serial No. 50,733
8 Claims. (Cl. 318—197)



1. A power system comprising an induction motor including a pair of polyphase windings, a circuit including a regulator dynamo coupled to said induction motor and adapted to create a current in said circuit varying rapidly with a slight variation from a predetermined speed of said induction motor, rotatable means for providing polyphase currents having a frequency determined by the rotational speed thereof, and comprising a generator including a field inductor, an armature associated with a commutator rotatable with respect to said field inductor and a polyphase system of brushes rotatable about said commutator for collecting a polyphase system of currents having a frequency determined by the relative motion between said system of brushes and said field inductor, an electric motor for rotating said system of brushes, means for amplifying the current of said circuit and for supplying said amplified current to said electric motor for controlling the speed thereof, said generator being connected in circuit with one of said polyphase windings of said induction motor, the other of said polyphase windings of said induction motor being adapted to be energized by a polyphase network.

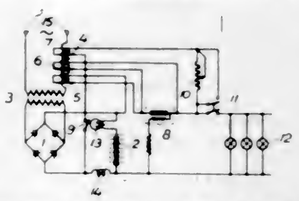
2,660,702

ARRANGEMENT IN TRANSDUCTOR-CONTROLLED RECTIFIER COOPERATING WITH STORAGE BATTERY AND LOAD

Algot Arvidsson, Ludvika, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation

Application April 20, 1948, Serial No. 22,086
11 Claims. (Cl. 320—10)

1. Means for feeding an electric current comprising a load, a storage battery connected to feed said load, a source of alternating current, rectifier means, means connecting said rectifier means to said source, transductor means in said connecting means, said rectifier means being connected to said load so as to cooperate with said battery to feed the load, means to feed to a saturating winding of said transductor means a current component substantially proportional



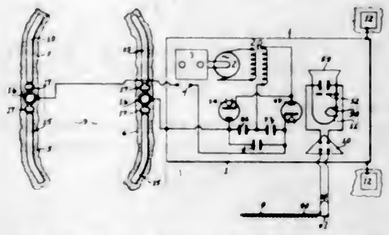
to the current absorbed by said load, said transductor means and said feeding means being so proportioned that a current substantially equal to the current absorbed by the load is fed to said rectifier means from said source in response to such current component, and means to feed to said rectifier means a second current component which acts in the same sense as said first current component and which does not increase with increases in the current absorbed by said load.

2,660,703

ELECTRICAL METHOD AND APPARATUS FOR GEOPHYSICAL PROSPECTING

Robert J. Herbold, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.

Application April 26, 1952, Serial No. 284,665
14 Claims. (Cl. 324—6)



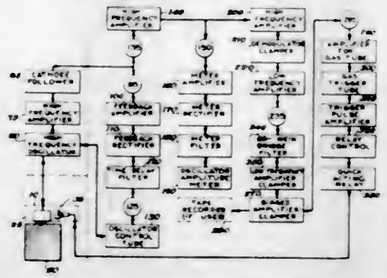
1. The method of geophysical exploration comprising the steps of establishing two spaced, linearly extensive, antenna terminals within the earth and located only close to the earth-air boundary and providing relative to said boundary an extensive, shallow, substantially horizontal sheet-like antenna zone of earth material between the terminals capable of dissipating a high energy electrical pulse, developing and discharging to said terminals a high energy pulse of short duration and initiating primarily a downwardly radiating horizontal wave front within the earth, and causing subterranean media successively activated by the wave front at different depths to initiate a series of vertically ascending return waves which progressively and selectively characterize said media, receiving said return waves directly from the earth and generating thereby an induced current of related characteristics and recording the successive wave patterns thereof which characterize the progressively deeper strata activated by said pulse and wave front.

2,660,704

SEAM DEPTH INDICATOR

William C. Harmon, Cleveland, and Ildefonso G. Orellana, Mayfield Heights, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

Application December 14, 1949, Serial No. 132,974
22 Claims. (Cl. 324—34)



1. A device for detecting defects in metallic objects comprising, in combination, a search coil traversable over the surface of an object, an oscillator energizing and loaded by the coil, a control circuit responsive to the output of said oscillator including a delayed response element connected to the oscillator to oppose relatively slow variations in the output thereof, means responsive to transient variations in the oscillator output for amplifying and rectifying the oscillator output to provide pulses indicative of flaws in the object, a pulse amplifier coupled to said amplifying and rectifying means, and a flaw-indicating device operated by the pulse amplifier, and responsive to pulses above a predetermined magnitude.

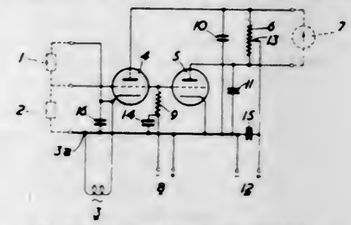
2,660,705

DEVICE FOR MEASURING ALTERNATING CURRENT IMPEDANCES

John A. Field, Wilstead, England, assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application November 1, 1950, Serial No. 193,408
Claims priority, application Great Britain November 11, 1949
4 Claims. (Cl. 324—57)

4. In combination, a source of alternating voltage, two impedances to be compared in respect of their alternating current impedance values connected in series across said source, a pair of grid controlled electron tubes having their control grids connected to the common point between said impedances, said tubes having their cathodes connected respectively to opposite sides of said source, means subjecting the control grids to a negative direct current bias, a source of unidirectional current, an adjustable voltage divider having its resistance element connected across the anodes of said tubes and



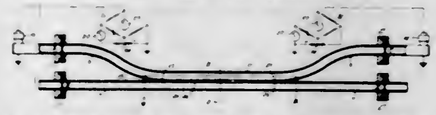
having its movable tap connected to the last mentioned source, and an electrical indicating device connected in parallel across the resistance element of said voltage divider.

2,660,706

APPARATUS FOR MEASURING POWER AND STANDING WAVES IN WAVE GUIDES

Jerald E. Hill, Forest Hills, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 25, 1945, Serial No. 601,424
20 Claims. (Cl. 324—95)



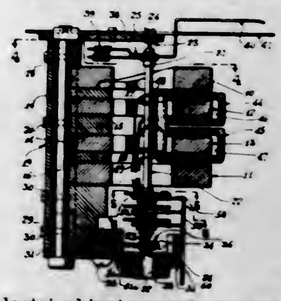
1. Apparatus for use in an ultra-high-frequency system comprising a main hollow wave guide through which electromagnetic waves are to be propagated, an auxiliary hollow wave guide having a portion substantially parallel to and in engagement with said main guide over a selected area, said main and auxiliary guides having openings opposite each other within said area forming a slot-like passageway extending lengthwise of said guides through which energy from said main guide is introduced into said auxiliary guide, the length of said passageway being approximately equal to n times one-half wave length in the guides where n is an integer, and means for measuring the power in said auxiliary guide beyond each end of said passageway.

2,660,707

LONG SCALE ELECTRICAL INSTRUMENT

Frederick G. Kelly, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey

Application February 5, 1949, Serial No. 74,820
6 Claims. (Cl. 324—140)



1. An electrical instrument comprising an arcuately-shaped permanent magnet member less

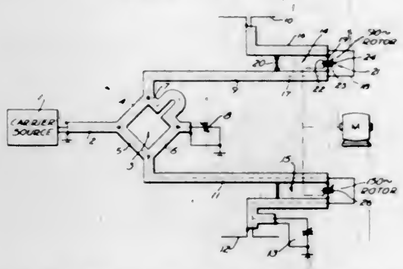
than 360° in length, an arcuately-shaped soft iron pole member spaced axially from said magnet on a common axis therewith to provide a uniform air gap therebetween, a magnetic spacing member between one end of said magnet member and an end of said pole member, said magnet member having opposite poles at its ends and being magnetized substantially uniformly along the length thereof to provide a magnetomotive force across said gap which varies uniformly along the gap, and a movable rotor coil embracing said pole member and pivoted at said axis of said magnet.

2,660,708
FREQUENCY DIVISION
Theodore H. Nakken, New York, N. Y.
Application November 9, 1949, Serial No. 126,337
10 Claims. (Cl. 332—45)



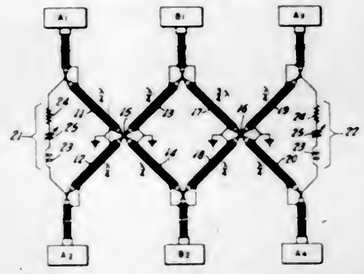
1. The method of dividing a complex variable frequency signal to obtain a new complex variable frequency signal having frequencies which are predetermined fractions of the frequencies of said first signal, which includes the step of modulating continuous high frequency waves and extracting therefrom single side bands which consistently differ in frequency by said fractions, the step of heterodyning said side bands against one another, and the final step of extracting said new signal.

2,660,709
MECHANICAL MODULATOR
Robert Armitage Hampshire, West Caldwell, Floyd William Iden, Pompton Plains, and Peter L. Hancock, Rochelle Park, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application November 10, 1951, Serial No. 255,766
3 Claims. (Cl. 332—56)



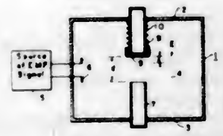
1. A modulator structure comprising a coaxial transmission line arranged in the form of a substantially U-shaped loop, the outer conductor of said line being cut away to provide a gap therein around the bend in said U, the inner conductor forming a U-shaped loop outside said gap, means interconnecting the conductor portions of said outer conductor in the legs of said U at points spaced from said gap, a variable capacitor coupled between said portions of said outer conductor substantially at said gap, and terminal connections at the ends of said legs for connecting a carrier frequency supplied and a load, respectively thereto.

2,660,710
HIGH-FREQUENCY COUPLING SYSTEM
Donald W. Blancher, North Hollywood, Calif., assignor to Bendix Aviation Corporation, North Hollywood, Calif., a corporation of Delaware
Application July 9, 1951, Serial No. 235,724
3 Claims. (Cl. 333—11)



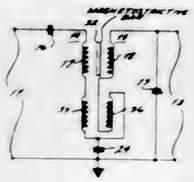
1. A high frequency coupling device for coupling a first pair of lines to a second pair of lines at a predetermined operating frequency comprising: first and second pairs of line connectors for connection to said first and second pairs of lines respectively; a common terminal; four coaxial lines directly connecting said common terminal to said respective line connectors, each of said coaxial lines being an odd quarter-wave in length; a resonant circuit containing lumped inductance, resistance, and capacity elements connected in series between one pair of said line connectors, and resonating substantially at said predetermined frequency, and coupling means having a phase shift of an even number of quarter wave lengths connected between the other pair of line connectors.

2,660,711
SELF-TUNING RESONANT CAVITY
Max Garbuny, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 17, 1948, Serial No. 65,963
3 Claims. (Cl. 333—17)



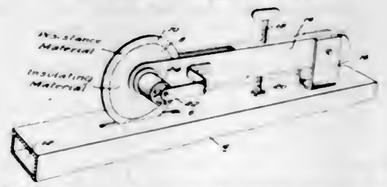
1. A self-tuning cavity resonator adapted to be coupled with a source of periodic signals of variable frequency and energized thereby to provide an electric field internally thereof comprising a conductive probe so constructed, supported and located internally of said cavity as to be movable as a unit in response to the forces exerted thereon by said electric field in a first predetermined direction, said resonator including means for applying mechanical force to said probe and tending to move said probe in a direction opposite to said first predetermined direction, said mechanical force having a total magnitude of the same order as said forces of the electrical field for all positions of said probe across said cavity, said resonator and said means being so constructed that for any given signal frequency, the opposed mechanical and electrical forces balance the probe at a position which determines the resonant frequency of said resonator.

2,660,712
BAND PASS FILTER
Vernon D. Landon, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 27, 1949, Serial No. 107,114
5 Claims. (Cl. 333—71)



5. A band pass filter having input and output terminals, comprising two pairs of inductors connected in series with one of the inductors of one of said pairs being connected in opposite polarity to the other inductors and said series connection of said inductors being coupled between corresponding ones of said input and output terminals, each pair of said inductors being mutually coupled so that the resulting mutual inductance is effective in a shunt arm of said filter, the two pairs of inductors being related to one another in inductance values in such a manner that the two resulting mutual inductances are of different values so that by reason of the reverse connection of one of said inductors there is produced a net effective mutual inductance in said shunt arm having a value less than that of either of said mutual inductances, a capacitor connected between the junction point of said serially connected inductors and the opposite ones of said input and output terminals forming with said net effective mutual inductance a shunt arm mesh which is resonant at the center frequency of said pass band, and an electro-mechanical vibratory element mounted for excitation by one pair of said inductors and forming another shunt arm mesh which also is resonant at said center frequency.

2,660,713
WAVE GUIDE ATTENUATOR
William Altar, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 15, 1948, Serial No. 27,219
14 Claims. (Cl. 333—81)



1. Wave guide attenuator comprising a section of wave guide with an opening in its side, a disc mounted to rotate about an axis perpendicular to said disc through its center and a mounting to support said disc in such manner that it extends into the wave guide through said opening, means capable of causing said disc to rotate, said disc being coated with a resistance material, said disc and the coating of resistance material being so shaped and so mounted that the distance which said coating extends into said wave guide remains constant during the rotation of said disc.

2,660,714
HIGH-FREQUENCY VARIABLE COUPLING STRUCTURE
Louis A. G. ter Veen, North Hollywood, Calif., assignor to Bendix Aviation Corporation, North Hollywood, Calif., a corporation of Delaware
Application June 11, 1951, Serial No. 230,907
2 Claims. (Cl. 336—125)



1. An electrical connecting structure for a rigid electrical element having two electrical terminals comprising: a coaxial cable fitting having inner and outer rigid conductors fixed with respect to each other and having one end adapted to be rigidly connected to a flexible coaxial cable, means rigidly attaching said element to the other end of said fitting for movement in unison therewith and electrically connecting said element terminals to said fitting conductors, and means movably supporting said element and fitting as a unit whereby the position of said element can be adjusted without altering the electrical characteristics of the circuit conductors connected to said element.

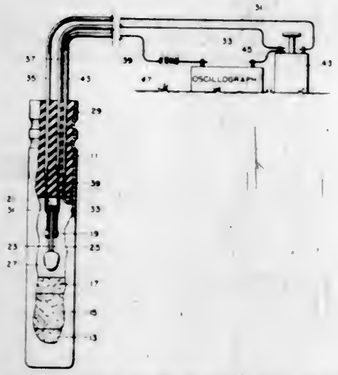
2,660,715
TRACTOR SAFETY CONTROL MEANS
Loyd Glass, Canton, and Bert G. Purtle, Elmwood, Ill.
Application June 27, 1952, Serial No. 296,032
2 Claims. (Cl. 339—19)



2. In a safety switch, a bracket adapted to be secured to a support, an insulated body mounted on said bracket, a pair of sleeve conductors within said body having open ends exposed at one end of said body, an insulated block having an end engaged with said one end of said body, a bridging conductor within said block having resilient compressible arms projecting from said end of the block, and arms being compressed and frictionally engaged in said sleeves, said sleeve being connectible in an electric circuit, and means on said block for connection of a pull loop thereto for withdrawing the block from said body and the bridging conductor arms from said

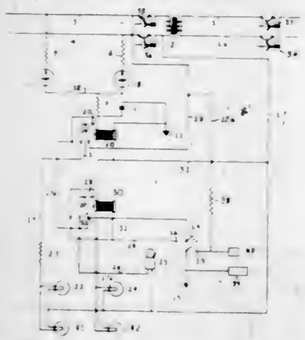
sleeves and breaking the circuit, and pivot means pivotally connecting the other end of said body with said bracket and providing for adjusting the position of said body in the direction of anticipated pull on said pull loop.

2,660,716
METHOD AND APPARATUS FOR ASCERTAINING TIME OF EXPLOSION
David M. McFarland, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application May 6, 1950, Serial No. 160,518
7 Claims. (Cl. 340—15)



1. A method for ascertaining the time of firing of an explosion initiated by an electric explosion initiator which comprises impressing an electrical potential between the firing circuit of said initiator and a point normally insulated from said firing circuit but in the locus of explosion, firing said initiator, and ascertaining the time at which a current passes by virtue of said potential.

2,660,717
ELECTRICAL GROUND DETECTOR
Herman A. Hood, Houston, Tex.
Application December 22, 1949, Serial No. 134,399
2 Claims. (Cl. 340—255)



1. A system for use in areas where explosive gases are present comprising an isolation transformer, a plurality of ungrounded conductors connected to the secondary of the transformer and adapted for supplying energy to electrical equipment, blocking rectifier elements so connected between each of said conductors and a common point that current can flow through said elements toward the common point only, said common point being connected to ground through a resistance; said resistance being sufficiently high to limit the current passing through a person, who may come in contact with one of said ungrounded conductors, to an amount insufficient to cause muscular reflex or electric shock, said resistance also being sufficiently high to eliminate the occurrence of an explosion producing electric spark should one of the ungrounded conductors accidentally become grounded, a relay coil connected between said common point and said ground and in series with said resistance, and signal means controlled by the relay coil for indicating the presence of said current.

2,660,718
MICROWAVE PROTECTIVE SYSTEM
Harry R. Summerhayes, Jr., Schenectady, and Ellsworth D. Cook, Scotia, N. Y., assignors to General Electric Company, a corporation of New York
Application December 30, 1949, Serial No. 135,916
8 Claims. (Cl. 340—258)



1. Apparatus for protecting an area by means of a microwave electromagnetic system comprising an oscillator for generating a microwave signal, an amplifier for amplifying said signal, a directive antenna for radiating said signal through an arc in a predetermined direction, a pair of directive receiving antennas, said receiving antennas being so positioned that they are most sensitive in the direction of said directive antenna, and a balanced receiver connected to said receiving antennas for indicating a change in the relationship between the strengths of the signals received from said receiving antennas.

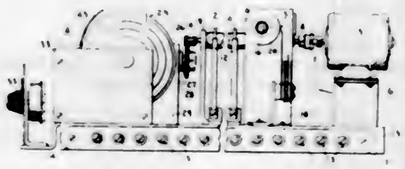
2,660,719
POSITION INDICATOR
Bror Wilhelm Strömberg, Stockholm, Sweden
Application July 30, 1951, Serial No. 239,305
4 Claims. (Cl. 340—282)

1. Means for indicating the position of a substantially vertically movable member comprising in combination a plurality of substantially vertical, separate, transparent tubes of a non-magnetic material, said tubes being arranged one above the other in partly overlapping order, each of said tubes being filled with a transparent damping liquid, a magnet actuated by said movable member to move within the total range of said column and externally along said tubes, at least one ball of an inductively magnetizable material enclosed in each of the uppermost and lowermost tubes of said column, the ball in the uppermost tube having a density slightly exceeding that of the damping liquid, the ball in the lowermost tube having a density slightly lower than that of the damping liquid, two magnetizable balls in each of the intermediate tubes of said column, the lower one of these balls in each tube having a density slightly exceeding and the upper one having a density slightly lower than the density of said damping liquid, said balls being all freely movable up and down in said respective tubes when influenced by said movable magnet and



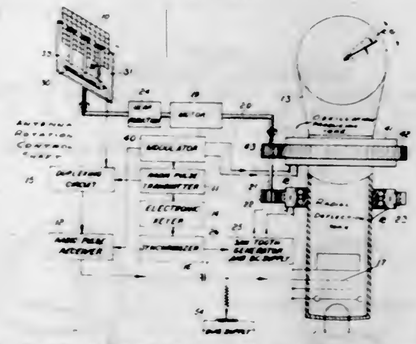
alternatively actuated by said magnet to allow consecutive indication of the position of the magnet and hence of the movable member over the whole length of said column of tubes.

2,660,720
SIMULATED RADIO SIGNAL APPARATUS
Richard C. Dehmel, Short Hills, N. J.
Application September 22, 1950, Serial No. 186,200
12 Claims. (Cl. 340—348)



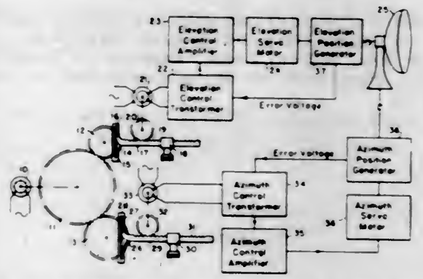
1. In training apparatus having means for simulating radio range signals, keyer apparatus for representing the identification signals of a respective radio range station comprising a rotatable member, a pair of spaced contacts mounted on said member and adapted to be connected to a signal circuit terminal, a relatively fixed arcuate contact member adapted to be engaged in wiping contact in succession by said rotatable contacts and connected to another signal circuit terminal, and an insulating perforated member adapted to be held in fixed position between said movable and fixed contacts, the perforations of said member representing dot-and-dash code signals and being in alignment with said rotatable contacts whereby electrical contact between the relatively fixed and movable contacts is controlled through said perforations.

2,660,721
RADIO ECHO RANGING APPARATUS
Robert M. Page, Washington, D. C.
Application April 9, 1942, Serial No. 438,321
12 Claims. (Cl. 343—11)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An apparatus for producing indications of range and direction of remote objects comprising means producing a directional beam of radio pulses, means continually oscillating said beam, means producing a radial line sweep on an oscillograph synchronized with said radio pulses, means continually oscillating said radial line sweep in synchronism with oscillation of said beam, and means producing indications on said radial line sweep responsively to pulse echoes.

2,660,722
RADIO SCANNING SYSTEM
Gordon Ley and Charles H. Jones, Pittsburgh, Pa., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application July 22, 1950, Serial No. 175,404
6 Claims. (Cl. 343—100)

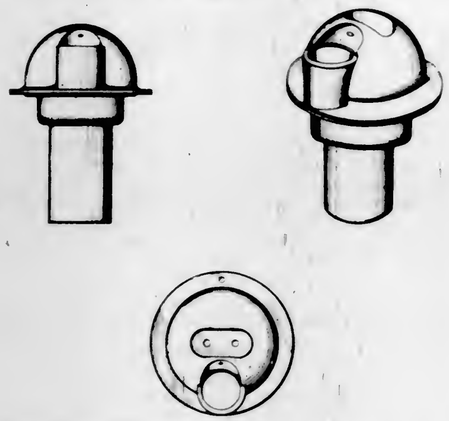


1. An antenna system comprising a directional antenna, first motor means having a rotor for cyclically moving said antenna alternatey in opposite directions at one frequency, and second motor means having a rotor for cyclically moving said antenna alternately in opposite directions different from said first-mentioned directions, and at a frequency different from said one frequency, and control means for effecting the rotation of said rotors at respectively predetermined frequencies.

DESIGNS

NOVEMBER 24, 1953

170,903
MEDICINAL VAPORIZER
Aaron Barkin, New York, N. Y., assignor to Practical Electric Products, Inc., Bronx, N. Y., a corporation of New York
Application January 5, 1953, Serial No. 22,999
Term of patent 7 years
(Cl. D83—1)



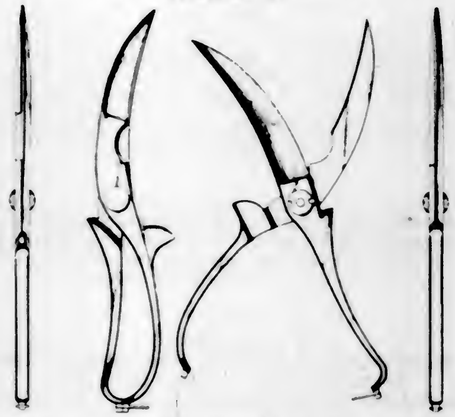
The ornamental design for a medicinal vaporizer, as shown.

170,904
COMBINED PERFUME BOTTLE AND HOLDER THEREFOR OR SIMILAR ARTICLE
Hugo Bell, Wilton, Conn., assignor to Bourjois, Inc., New York, N. Y., a corporation of New York
Application June 22, 1953, Serial No. 25,587
Term of patent 14 years
(Cl. D58—26)



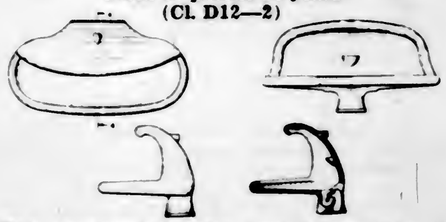
The ornamental design for a combined perfume bottle and holder therefor or similar article, substantially as shown.

170,905
SHEARS
Leonard Blanchaert, Milan, Italy, assignor to Coltellerie Riunite di Caslino E. Maniago, a limited corporation of Italy
Application August 22, 1952, Serial No. 21,165
Term of patent 7 years
(Cl. D22—5)



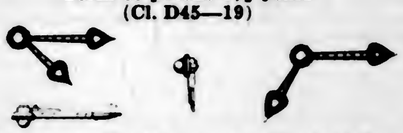
The ornamental design for a shears, as shown.

170,906
SANITARY DOG TOILET
Frances Bloom, Los Angeles, Calif.
Application March 9, 1953, Serial No. 23,961
Term of patent 14 years
(Cl. D12—2)



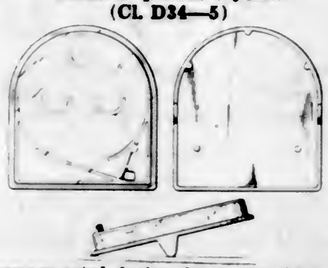
The ornamental design for a sanitary dog toilet, substantially as shown.

170,907
ADJUSTABLE BROOCH OR SIMILAR ARTICLE
Marcel Boucher, Eltingeville, N. Y.
Application July 10, 1953, Serial No. 25,867
Term of patent 3½ years
(Cl. D45—19)



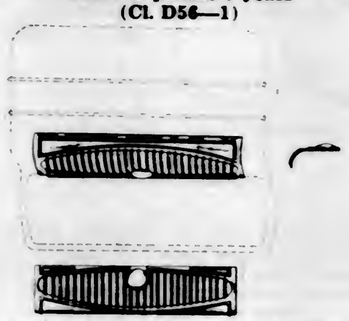
The ornamental design for an adjustable brooch or similar article, as shown.

170,908
SPIRAL TYPE ROLLING BALL SKILL GAME APPARATUS
Richard N. Carver, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application December 31, 1952, Serial No. 22,964
Term of patent 7 years
(Cl. D34—5)



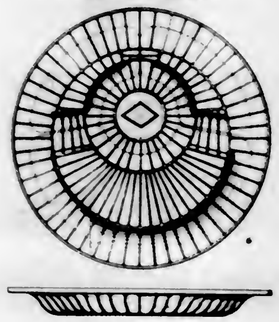
The ornamental design for a spiral type rolling ball skill game apparatus, substantially as shown and described.

170,909
ACCORDION GRILL
Vincent Castiglione, Detroit, Mich.
Application May 11, 1953, Serial No. 24,953
Term of patent 7 years
(Cl. D56—1)



The ornamental design for an accordion grill, as shown and described.

170,910
COMPARTMENTED PLATE
Charles J. Chaplin, South Portland, Maine, assignor to Chaplin Corporation, South Portland, Maine, a corporation of Maine
Application March 2, 1953, Serial No. 23,853
Term of patent 14 years
(Cl. D44—15)

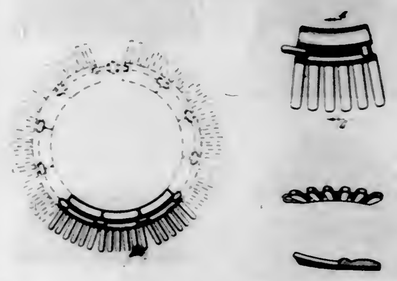


170,910—Continued



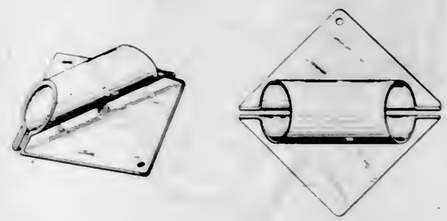
The ornamental design for a compartmented plate, as shown.

170,911
NECKLACE OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application July 12, 1952, Serial No. 20,585
Term of patent 7 years
(Cl. D45—16)



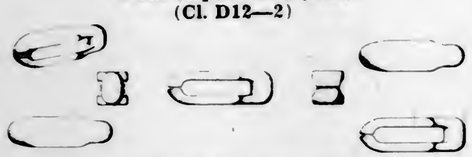
The ornamental design for a necklace or similar article, substantially as shown and described.

170,912
SANDWICH STEADIER
Robert C. Collins, Winnipeg, Manitoba, and William Saunderson, Vancouver, British Columbia, Canada
Application July 21, 1952, Serial No. 20,698
Term of patent 7 years
(Cl. D44—29)



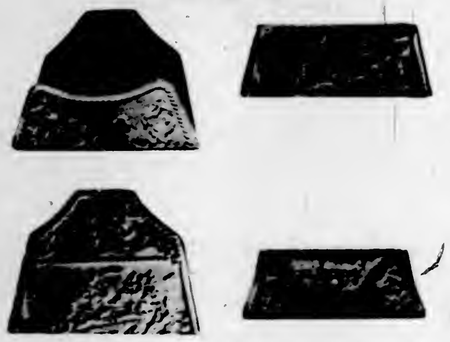
The ornamental design for a sandwich steadier, as shown.

170,913
EAR TAG FOR SHEEP AND OTHER ANIMALS
Kenneth George Dumbrell, Hawthorn, near Melbourne, Victoria, and Geoffrey Noel Dumbrell, Toorak, near Melbourne, Victoria, Australia
Application October 18, 1952, Serial No. 21,892
In Australia April 28, 1952
Term of patent 14 years
(Cl. D12—2)



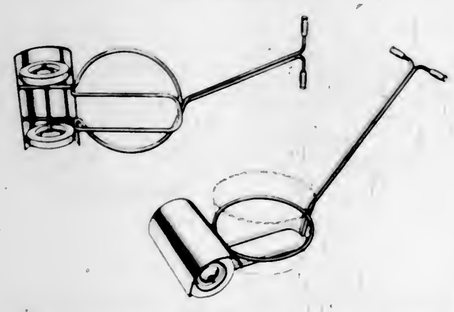
The ornamental design for an ear tag for sheep and other animals, substantially as shown.

170,914
SPECTACLE CASE
Joan L. Foss, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application June 3, 1953, Serial No. 25,300
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a spectacle case, substantially as shown.

170,915
UTILITY CART
Russell D. Garlock, Minneapolis, Minn.
Application January 9, 1953, Serial No. 23,086
Term of patent 14 years
(Cl. D14—3)



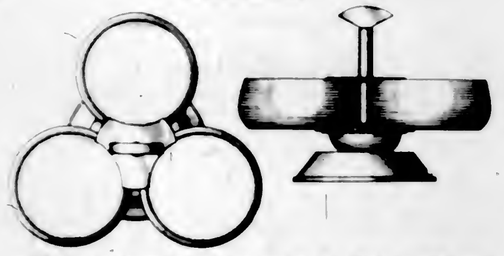
The ornamental design for a utility cart, as shown and described.

170,916
ASH TRAY
Walter Gillarde, Chicago, Ill.
Application June 11, 1953, Serial No. 25,439
Term of patent 14 years
(Cl. D85—2)



The ornamental design for an ash tray, as shown.

170,917
LAZY SUSAN OR SIMILAR ARTICLE
Robert L. Gruen, New York, N. Y., assignor to Continental Silver Co. Inc., a corporation of New York
Application July 17, 1953, Serial No. 26,025
Term of patent 7 years
(Cl. D44—10)



The ornamental design for a Lazy Susan or similar article, substantially as shown.

170,918
GLASS TUMBLER OR SIMILAR ARTICLE
Virginia Hamill, New York, N. Y., assignor to The Federal Glass Company, Columbus, Ohio
Application November 26, 1952, Serial No. 22,454
Term of patent 3½ years
(Cl. D36—8)



The ornamental design for a glass tumbler or similar article, substantially as shown and described.

170,919
GLASS TUMBLER OR SIMILAR ARTICLE
Virginia Hamill, New York, N. Y., assignor to The Federal Glass Company, Columbus, Ohio
Application January 13, 1953, Serial No. 23,115
Term of patent 3½ years
(Cl. D36—8)



The ornamental design for a glass tumbler or similar article, substantially as shown and described.

170,920
GLASS TUMBLER OR SIMILAR ARTICLE
Virginia Hamill, New York, N. Y., assignor to The Federal Glass Company, Columbus, Ohio
Application January 13, 1953, Serial No. 23,116
Term of patent 3½ years
(Cl. D36—8)



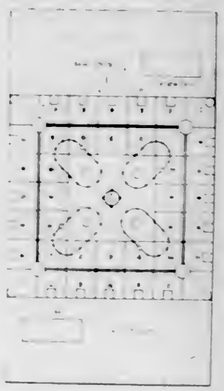
The ornamental design for a glass tumbler or similar article, substantially as shown and described.

170,921
GLASS TUMBLER OR SIMILAR ARTICLE
Virginia Hamill, New York, N. Y., assignor to The Federal Glass Company, Columbus, Ohio
Application January 13, 1953, Serial No. 23,117
Term of patent 3½ years
(Cl. D36—8)



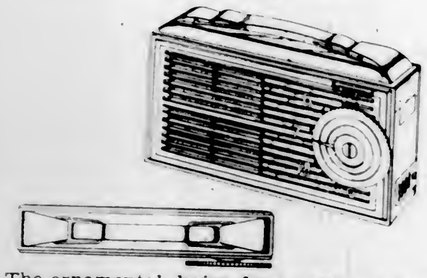
The ornamental design for a glass tumbler or similar article, substantially as shown and described.

170,922
GAMEBOARD
Larry H. Hayman and Anthony M. Silveri, West Covina, Calif.
Application May 1, 1953, Serial No. 24,790
Term of patent 7 years
(Cl. D34—5)



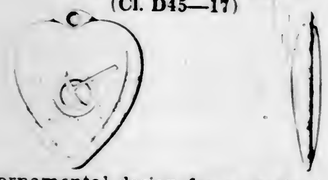
The ornamental design for a gameboard, as shown and described.

170,923
RADIO RECEIVER
Dorman D. Israel, New Rochelle, Arthur C. Germer, North Merrick, and Kenneth E. E. James, Laurelton, N. Y., assignors to Emerson Radio and Phonograph Corporation, New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,996
Term of patent 14 years
(Cl. D56—4)



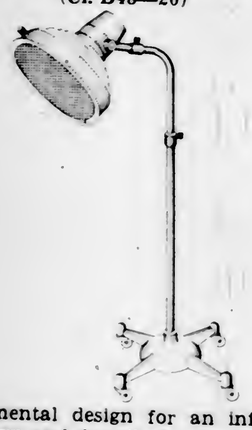
The ornamental design for a radio receiver, as shown.

170,924
PENDANT OR SIMILAR ARTICLE
Albert C. Jensen, Mountain View, Calif.
Application January 6, 1953, Serial No. 23,038
Term of patent 14 years
(Cl. D45—17)



The ornamental design for a pendant or similar article, as shown and described.

170,925
INFRARED RAY LAMP
Benedictus K. Kaveckas, Roselle, N. J., assignor to Hanovia Chemical & Mfg. Company, Newark, N. J., a corporation of New Jersey
Application February 5, 1953, Serial No. 23,456
Term of patent 14 years
(Cl. D48—20)



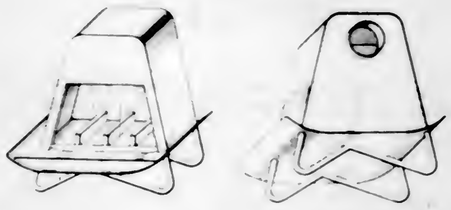
The ornamental design for an infrared ray lamp, as shown and described.

170,926
INFANT'S SHOE
George E. Kettner, Mamaroneck, N. Y.
Application February 20, 1953, Serial No. 23,709
Term of patent 14 years
(Cl. D7—7)



The ornamental design for an infant's shoe, substantially as shown and described.

170,927
FIREPLACE
George Kosmak, San Francisco, Calif.
Application June 26, 1953, Serial No. 25,675
Term of patent 14 years
(Cl. D81—7)



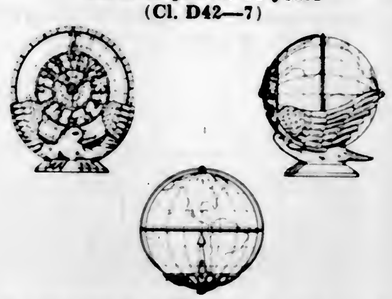
The ornamental design for a fireplace, as shown.

170,928
STOCKING
William M. Langer, Berlin, N. J.
Application June 19, 1953, Serial No. 25,577
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown.

170,929
CLOCK OR SIMILAR ARTICLE
Kaspar Lendrait, Chicago, Ill.
Application March 9, 1953, Serial No. 23,967
Term of patent 14 years
(Cl. D42—7)



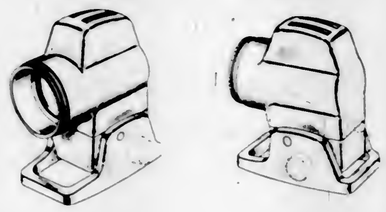
The ornamental design for a clock or similar article, substantially as shown.

170,930
SOUND PRODUCING DEVICE OR SIMILAR ARTICLE
Joseph Long, Belleville, N. J.
Application April 22, 1953, Serial No. 24,617
Term of patent 14 years
(Cl. D56—9)



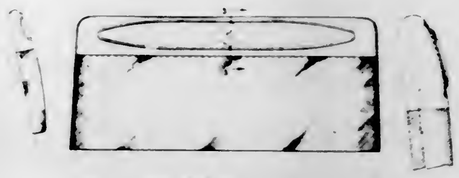
The ornamental design for a sound producing device or similar article, as shown.

170,931
MICROSCOPE ILLUMINATOR
Michael Macaluso, Jr., Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application June 11, 1953, Serial No. 25,451
Term of patent 14 years
(Cl. D57—1)



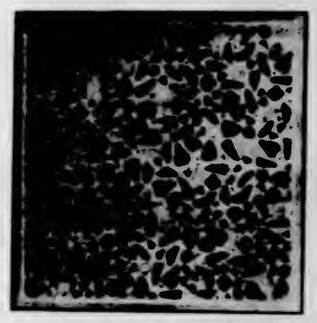
The ornamental design for a microscope illuminator, substantially as shown and described.

170,932
AUTOMOBILE SEAT COVER
Oliver F. Marston, Richmond, Va., assignor to B. T. Crump Company, Inc., Richmond, Va., a corporation of Virginia
Application February 29, 1952, Serial No. 18,723
Term of patent 14 years
(Cl. D14—6)



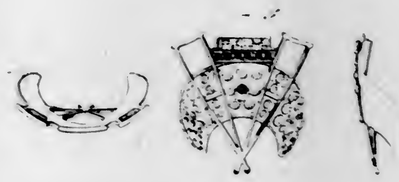
The ornamental design for an automobile seat cover, as shown and described.

170,933
SCARF
Vera Neumann, Ossining, N. Y.
Application June 9, 1952, Serial No. 20,096
Term of patent 7 years
(Cl. D3—12)



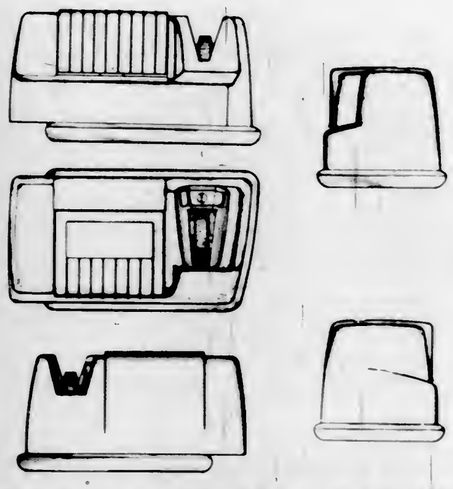
The ornamental design for a scarf, substantially as shown and described.

170,934
PIN
Harry M. Osers, New York, N. Y.
Application April 29, 1953, Serial No. 24,818
Term of patent 7 years
(Cl. D45—19)



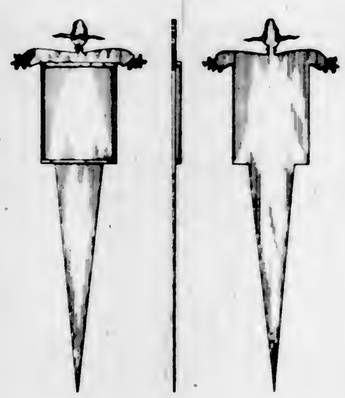
The ornamental design for a pin, as shown and described.

170,935
KNIFE SHARPENER
Joseph Palma, Jr., Berwyn, Ill., and Courtney A. Leubner, Milwaukee, Wis., assignors to G. M. Laboratories Inc., Chicago, Ill., a corporation of Illinois
Application July 9, 1953, Serial No. 25,855
Term of patent 14 years
(Cl. D37—1)



The ornamental design for a knife sharpener, as shown.

170,936
GARDEN ROW MARKER
Edwin B. Pegram, Bozeman, Mont.
Application June 8, 1953, Serial No. 25,364
Term of patent 14 years
(Cl. D35—2)



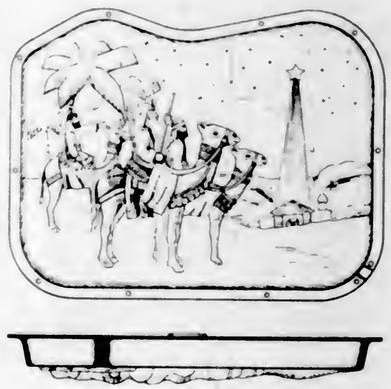
The ornamental design for a garden row marker, as shown.

170,937
ILLUMINABLE CHRISTMAS PLAQUE
John Petry, New York, N. Y., assignor to Raylite Electric Corp., Bronx, N. Y., a corporation of New York
Application October 4, 1952, Serial No. 21,694
Term of patent 7 years
(Cl. D29—23)



The ornamental design for an illuminable Christmas plaque, as shown.

170,938
ILLUMINABLE CHRISTMAS PLAQUE
John Petry, New York, N. Y., assignor to Raylite Electric Corp., Bronx, N. Y., a corporation of New York
Application October 4, 1952, Serial No. 21,695
Term of patent 7 years
(Cl. D29—23)



The ornamental design for an illuminable Christmas plaque, as shown.

170,939
ILLUMINABLE CHRISTMAS PLAQUE
John Petry, New York, N. Y., assignor to Raylite Electric Corp., Bronx, N. Y., a corporation of New York
Application October 4, 1952, Serial No. 21,696
Term of patent 7 years
(Cl. D29—23)



The ornamental design for an illuminable Christmas plaque, as shown.

170,940
ILLUMINABLE CHRISTMAS ORNAMENT
John Petry, New York, N. Y., assignor to Raylite Electric Corp., Bronx, N. Y., a corporation of New York
Application October 4, 1952, Serial No. 21,698
Term of patent 7 years
(Cl. D29—23)



The ornamental design for an illuminable Christmas ornament, as shown.

170,941
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application March 18, 1953, Serial No. 24,075
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,942
MEDALLION
Horace Randall, Pawtucket, R. I., assignor to The H. M. H. Co., a corporation of South Dakota
Application June 18, 1953, Serial No. 25,548
Term of patent 7 years
(Cl. D29—2)



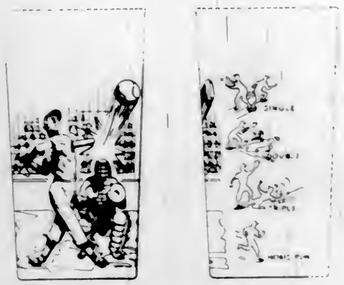
The ornamental design for a medallion, substantially as shown.

170,943
BARBECUE BRAZIER
Jean O. Reinecke, Oak Park, Ill., assignor to Meil-Hoffmann Mfg. Co., Chicago, Ill., a corporation of Delaware
Application March 20, 1953, Serial No. 24,135
Term of patent 7 years
(Cl. D81—10)



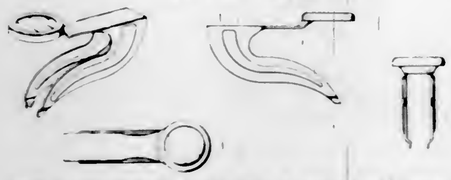
The ornamental design for a barbecue brazier, substantially as shown and described.

170,944
DRINKING GLASS
Jack W. Robbins, Chicago, Ill.
Application March 14, 1952, Serial No. 18,884
Term of patent 14 years
(Cl. D36—8)



The ornamental design for a drinking glass, substantially as shown and described.

170,945
COMBINED MAGNIFIER AND TWEEZERS
Frances Robitschek, Los Angeles, Calif., assignor of one-half to George Robitschek, Los Angeles, Calif.
Application April 30, 1953, Serial No. 24,781
Term of patent 14 years
(Cl. D86—10)



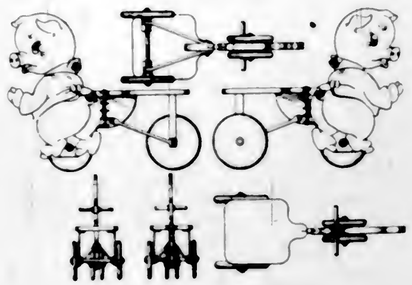
The ornamental design for a combined magnifier and tweezers, as shown.

170,946
SHOE OR SIMILAR ARTICLE
Jacob Sandler, New York, N. Y.
Application January 30, 1953, Serial No. 23,367
Term of patent 7 years
(Cl. D7—7)



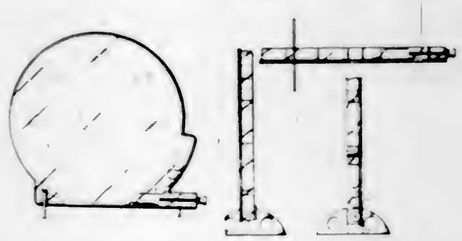
The ornamental design for a shoe or similar article, substantially as shown.

170,947
CHILD'S VEHICLE
Clyde A. Scheppele, Las Vegas, Nev.
Application February 3, 1953, Serial No. 23,407
Term of patent 7 years
(Cl. D34—15)



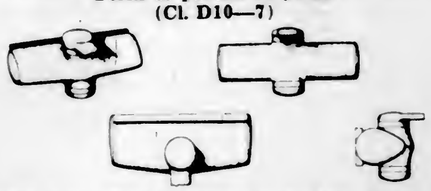
The ornamental design for a child's vehicle, as shown and described.

170,948
UPRIGHT SPIRAL ROLLING BALL SKILL GAME APPARATUS
Joseph J. Schigas, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application June 16, 1953, Serial No. 25,528
Term of patent 7 years
(Cl. D34—5)



The ornamental design for an upright spiral rolling ball skill game apparatus, substantially as shown and described.

170,949
DOOR CLOSER
Ernest L. Schlage, Burlingame, Calif., assignor to Schlage Lock Company, a corporation
Application January 19, 1953, Serial No. 23,178
Term of patent 14 years
(Cl. D10—7)



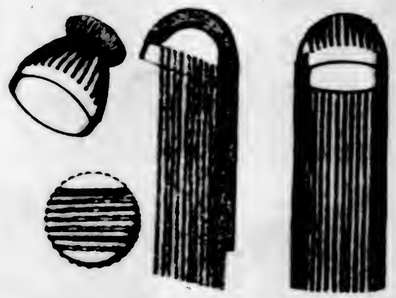
The ornamental design for a door closer, as shown.

170,950
CLIP OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a partnership consisting of Marcel Boucher and Jeanne Boucher
Application July 20, 1953, Serial No. 26,042
Term of patent 3½ years
(Cl. D45—19)



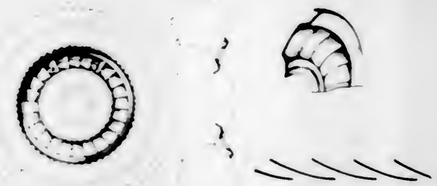
The ornamental design for a clip or similar article, as shown.

170,951
LADY'S HEAD COVERING
Iris G. Sibley, New Hope, Pa.
Application August 10, 1953, Serial No. 26,358
Term of patent 14 years
(Cl. D3—13)



The ornamental design for a lady's head covering, as shown and described.

170,952
WHEEL TRIM OR SIMILAR ARTICLE
Charles W. Sinclair, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application April 7, 1952, Serial No. 19,215
Term of patent 14 years
(Cl. D14—30)



The ornamental design for a wheel trim or similar article, substantially as shown and described.

170,953
MIXING AND DISPENSING FAUCET
Anthony Turak, Cleveland, Ohio
Application May 11, 1953, Serial No. 24,959
Term of patent 14 years
(Cl. D2—3)



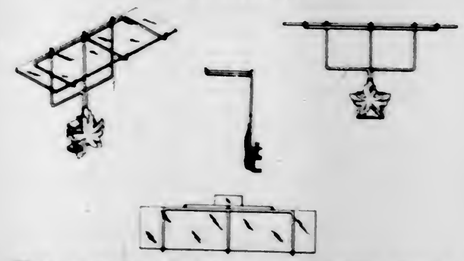
The ornamental design for a mixing and dispensing faucet, as shown.

170,954
CHAIR
Walter Urda, Rockville Centre, N. Y.
Application October 13, 1952, Serial No. 21,818
Term of patent 7 years
(Cl. D15—8)



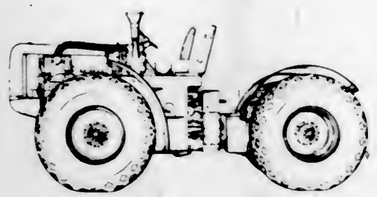
The ornamental design for a chair, as shown.

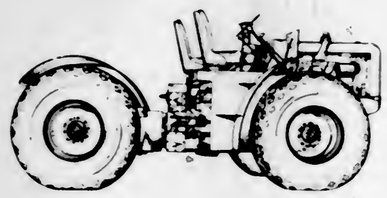
170,955
PLANT STAND
Andrew J. Vavoulis, St. Paul, Minn.
Application December 18, 1952, Serial No. 22,754
Term of patent 14 years
(Cl. D35—3)

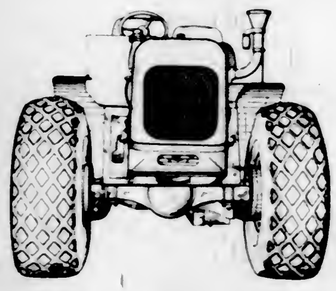


The ornamental design for a plant stand, as shown.

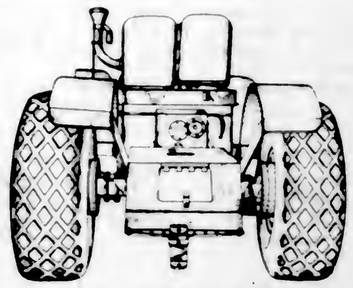
170,956
TRACTOR
Elmer A. Wagner, Portland, Oreg.
Application September 21, 1953, Serial No. 26,883
Term of patent 14 years
(Cl. D14—3)





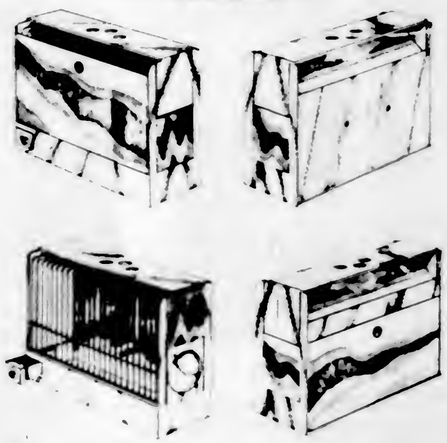


170,956—Continued



The ornamental design for a tractor, as shown.

170,957
SHOW CAGE FOR BIRDS
Bryan W. Womack, Fort Worth, Tex.
Application July 17, 1953, Serial No. 26,033
Term of patent 14 years
(Cl. D31—2)



The ornamental design for a show cage for birds, substantially as shown.

December 1, 1953 Volume 677 Number 1

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business November 13, 1953

Total number of patent applications awaiting action, 103,665. Date of oldest new application, January 12, 1953; date of oldest amended application, January 6, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	3-5-53	3-5-53	1346
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-2-53	2-19-53	1238
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus) Heating; Coating or Plastic Composition (part).	3-17-53	3-18-53	1632
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	2-24-53	2-24-53	1530
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	2-9-53	2-11-53	1371
6. SURLE, H., Carbon Chemistry (part)	1-12-53	1-6-53	2155
7. GONSALVES, J. E., Optics; Photography (part)	2-9-53	2-17-53	1803
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	3-16-53	3-16-53	1462
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	2-25-53	2-27-53	1225
10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	3-11-53	3-13-53	1338
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	3-9-53	3-6-53	1188
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	2-16-53	2-17-53	1814
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	2-9-53	2-13-53	1247
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	3-9-53	3-9-53	1459
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	2-17-53	2-17-53	1751
16. LOVEWELL, N. N., Television; Telephony; Recorders	1-27-53	1-21-53	1781
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	2-24-53	2-24-53	1447
18. KURZ, J. A., Power Plants; Speed Responsive Devices	2-16-53	2-16-53	1397
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	2-6-53	1-26-53	1125
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	3-13-53	3-17-53	1233
21. MADER, R. C., Textiles	2-24-53	2-24-53	1280
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	3-6-53	3-4-53	1179
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	2-13-53	2-9-53	1022
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles Ironing or Smoothing	4-27-53	4-24-53	1073
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	2-10-53	2-4-53	1426
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	3-2-53	3-9-53	1995
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	3-9-53	3-3-53	1274
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	3-6-53	3-9-52	1430
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	2-24-53	2-9-53	1068
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	5-1-53	5-1-53	1430
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	2-6-53	2-2-53	1886
32. BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	3-23-53	3-23-53	1359
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	2-18-53	2-19-53	1983
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	2-9-53	2-10-53	1268
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	3-11-53	3-6-53	1412
36. McFADYEN, A. D., Measuring and Testing	3-9-53	3-9-53	1084
37. LEVY, M. L., Electricity-Switches, Welding, Heating	3-17-53	2-25-53	1704
38. MARMELSTEIN, N., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-26-53	2-5-53	2027
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	3-31-53	4-1-53	1548
40. DRUMMOND, E. J., Receptacles (part); Packages	6-1-53	6-3-53	901
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	3-9-53	3-10-53	1694

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	2-16-53	2-17-53	1774
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	2-16-53	2-17-53	1943
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	3-3-53	2-26-53	1308
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	2-11-53	2-12-53	1184
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	3-3-53	2-26-53	1575
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	2-16-53	2-10-53	1736
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	3-4-53	2-24-53	1457
50. BENGEL, W. G., Synthetic Resins; Rubber	4-23-53	4-23-53	1931
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices Modulators; Music; Acoustics.	3-9-53	3-5-53	1609
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	3-24-53	3-18-53	1975
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	2-17-53	2-18-53	1561
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	2-26-53	3-3-53	1904
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-21-53	1-26-53	1655
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	4-3-53	4-2-53	1321
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	3-16-53	3-11-53	1798
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spitoons.	2-17-53	2-12-53	1350
59. BRINDISI, M. A. (Acting), Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-2-53	3-2-53	1522
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	4-2-53	4-8-53	892
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	3-6-53	3-2-53	1854
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	2-6-53	2-5-53	2017
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	3-3-53	3-2-53	1707
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	3-18-53	3-16-53	820
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	3-9-53	3-6-53	1582
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	2-18-53	2-18-53	1578
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	1-23-53	1-15-53	3693
DESIGNS: A—BREHM, G. L., Industrial Arts	6-16-53	6-29-53	1097
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	6-16-53	7-2-53	847

Number of new applications received week ending October 23, 1953

PATENTS 1,392 DESIGNS 91 REISSUES 7 TOTAL 1,490

Total number of trade-mark applications awaiting action (including renewals and republications), 11,571. Date of oldest new application, June 13, 1953; date of oldest amended application, June 12, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	6-16-53	6-15-53	2841
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	6-13-53	6-13-53	2886
Renewals (All Classes)	9-11-52	10-14-53	358
Republications (All Classes)	9-9-53	10-15-53	247
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	6-15-53	6-19-53	2543
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	6-22-53	6-12-53	2666

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE LURELLE GUILD, ETC.

No. 5967. Decided April 15, 1953. Petition for rehearing denied May 29, 1953

[204 F.2d 700; 98 USPQ 268]

1. DESIGN—ANTICIPATION—SUBSTANTIAL SIMILARITY OF APPEARANCES IS CONTROLLING.

Held that the determinative factor relative to the issue of anticipation of a design patent application is founded in identity or substantial similarity of appearances.

2. AFFIDAVITS—EX PARTE—AMOUNT TO EXPRESSION OF OPINION BY EXPERT IN ART.

"For obvious reasons, an ex parte affidavit, while not to be lightly disregarded, is seldom acceptable as being conclusive of the factual matter stated therein, and, in general, such affidavits are accorded the status of an expression of opinion by an expert in the art."

3. DESIGNS—ANTICIPATION—OPERATIVENESS OF REFERENCE PROCESS NOT CONSIDERED.

Held that a design patent will not be granted for a design shown in a prior reference, although the process disclosed in the reference may be inoperative to produce the design illustrated.

4. PATENTABILITY — PARTICULAR SUBJECT MATTER — DESIGN FOR BUILDING ROOF.

A certain claim for a design for a building roof *Held* properly rejected as unpatentable over the cited art.

APPEAL from the Patent Office. Serial No. D-3,640.

AFFIRMED.

Allen & Allen (*Erastus S. Allen* of counsel) for appellant.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

COLE, *J.*:

The subject matter involved in this appeal relates to a design patent application for a building roof.

In proceedings before the Primary Examiner of The United States Patent Office, the single claim of the application was rejected, three grounds therefor being assigned. The Board of Appeals affirmed the Examiner's decision, reversal of the first ground of rejection, however, specifically being manifested.

The claim reads as follows:

The ornamental design for a building roof substantially as shown and described.

With the consent of the Patent Office, the application drawing has been supplemented on appeal by more accurate reproductions of the design in question and while technically not a part of the record before us, said reproductions will be considered in arriving at the decision of the court.

A clear description of applicant's design is found in the opinion of the Primary Examiner, as follows:

The subject matter of the instant application relates to a building roof made up of shingles of the type having granules on the surfaces thereof. Said granules are arranged in batches which vary in hue, chroma and value embedded in areas on the surface of the shingles with adjacent areas blended together so that when the shingles are laid on the roof an optical effect of deep shadows below the butts of the shingle units is produced simulating shingles of greater than actual thickness, the blending of adjacent areas of the granules of different hue, chroma and value arranged irregularly depthwise of the roof revealing a non-banding visual appearance laterally of the roof of gradually deepening color value throughout the entire exposed area of each shingle unit from butt to overlap and the blending of the granules of different hue and chroma in areas laterally of the roof arranged irregularly widthwise in each shingle unit to reveal a non-banding appearance depthwise of the roof, the pattern of distribution of granules of different hue, chroma and value being different in each shingle unit.

It is essential that the terms "hue," "chroma," and "value" (color value), used in the foregoing description, be understood. In this connection, the applicant has stated in his brief that every colored article, exclusive of black and white or intermediates therebetween, has three qualities. Hue commonly means color, i. e., red, green, blue, yellow, or intermediates thereof. Chroma has particular reference to whether the hue is intense, weak, faded, etc. Color value is indicative of the degree of luminosity.

It appears to us that the applicant, by arranging areas of mineral granules on the shingles which vary in hue and chroma, but which gradually deepen in color value from butt to overlap, achieves the non-banding shadow blend roof effect which is claimed to be the essence of the invention. More concretely, the overall concept amounts to this: Constantly change the areas of different hue and chroma laterally of the roof and, at the same time, maintain a constantly changing color value vertically of the roof panel.

In rejecting the application on appeal, the Board of Appeals placed reliance upon the following references: McKay, 1,208,595, December 12, 1916; House and Garden, page 50, April 1950.

The McKay reference is a product patent for prepared roofing while the latter publication is pertinent in connection with alleged copyright protection granted the present application covering the identical roof design claimed in the instant appeal.

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Considering now the patent to McKay, the tribunals below predicated their rejection of the appealed claim on the ground that the subject matter thereof was not patentably distinct from that disclosed by the reference. That a product patent, such as the McKay reference, can, if pertinent, be cited as a disclosure to anticipate the design application on appeal is not disputed.

McKay's drawing shows a shingle darker at the lap end which gradually becomes lighter at the butt end. The applicant agrees that the following analysis of the McKay specification, as set forth by the Board in its opinion, is correct:

> McKay states that he attains fictitious or illusory shadow-values by the graduated blending or merging of a lighter-colored color-layer into the darker mass of a plastic main layer and that by the coordination of the resultant illusory "deep-shadow" areas and "shadow-blends" with the physical elevation and depressions of the prepared roofing surface, he attains the optical illusion of depth of relief which greatly exceeds the physical depth of the material. McKay also states that the two layers may be so blended as to graduate the color of the color coating into the dark appearance of the deep-shadow area in the resultant "shadow-blend" areas. • • •

Concededly, McKay suggests a shadow blend giving an artificial appearance of thickness to the shingles. Persistently urging, however, that McKay's idea was completely inoperative to produce anything which resembles the appearance of that inventor's drawing, the applicant, to strengthen such a conclusion, has submitted the affidavit of one Howard Callahan, a man considered to be highly skilled in the art in question. The Callahan affidavit is clear to the effect that following diligent efforts to practice McKay's invention, according to the tenor of the patent disclosure, the affiant was wholly unable to produce any likeness to the patentee's drawing. A specimen piece of roofing allegedly made in accordance with the McKay process was placed in evidence. That it differs in appearance from the drawing of Figure 1 of the McKay patent is quite apparent.

The sum and substance of applicant's position would thus seem to be based on alleged inoperativeness of the McKay disclosure insofar as producing anything having the appearance of what is shown in the drawing of that patent. The applicant believes that "the draftsman made a mistake as to what McKay's roll roofing would look like" and further that "it is purely a chance showing having no basis in the specification." Applicant submits that justification for its conclusion is readily found in McKay's failure to avoid "banding." The applicant insists that it is only by varying the hue, chroma and color value of the granules that "banding" is avoided, and that McKay allegedly fails to achieve this result is, according to applicant, evidence of inoperativeness, regardless of what the reference drawing discloses.

In applying the McKay reference, the Primary Examiner said:

> • • • the drawing disclosure of McKay clearly illustrates a shingle which is darker at the lap end and gradually becomes lighter at the butt end. It would appear that McKay accomplishes the same result as to appearance when his shingles are laid in a finished roof. Applicant, in support of his traversal of this rejection, has submitted a sample roof section alleged to have been made by the process outlined by McKay. It is admitted that it differs in appearance from the roof section shown in the McKay patent, and applicant states in effect that this is an indication that the McKay patent is inoperative and that the showing thereon is merely the draftsman's notion of how a roof made in accordance with the McKay patent should look and this is not supported by the facts. As designs are based solely on appearance and the McKay drawing disclosure appears to clearly show the identical appearance as presented by applicant's drawing, it is not seen to be material whether McKay's process would produce the shingles shown thereon or not. The fact remains that the showing of McKay is deemed to substantially duplicate applicant's showing and as McKay is old enough to be a publication reference against the instant case, such showing alone is a valid reference.

[1] It is a fundamental principle of patent law that the patentability of a design application is to be tested in the light of its appearance as a whole. Bearing in mind that the law applicable to design patents is not different from that applicable to other patents, the determinative factor relative to the issue of anticipation is founded in identity or substantial similarity of appearances.

Should we accept the McKay reference as sufficient to reject the application before us, that would preclude any need for consideration of the other objection. Obviously, if the applicant has but presented a design sufficiently similar to that of McKay, as evidenced by a comparison of the respective drawings, then the applicant must recognize his efforts as being non-patentable.

In approaching what we consider the controlling and decisive issue, it is well to keep in mind that a patent enjoys a presumption of validity and a party attacking its validity on the ground of inoperativeness must establish his case by a preponderance of proof.

As previously noted, the applicant, in attempting to satisfactorily meet the aforesaid burden of proof, submitted the affidavit of Callahan attesting to the inoperativeness of the McKay process. [2] For obvious reasons, an ex parte affidavit, while not to be lightly disregarded, is seldom acceptable as being *conclusive* of the factual matter stated therein, and, in general, such affidavits are accorded the status of an expression of opinion by an expert in the art. The prime importance of the ex parte affidavit to the applicant seeking to avoid an asserted anticipation must, however, be fully recognized as it is one of the few practical mediums through which the applicant can successfully operate in endeavoring to prove his case. Yet, the law demands close scrutiny of such affidavits, particularly in those instances wherein the affiant is not a disinterested party. See *In re McKenna et al.*, 40 CCPA (Patents) —, for a more detailed discussion of ex parte affidavits.

The tribunals below in discounting the effectiveness of the Callahan affidavit to establish the alleged inoperativeness of the reference patent did so, presumably, only after a sound appraisal of said affidavit. We have carefully reviewed the Callahan affidavit in the course of our study of the case but when viewed in the light of all surrounding circumstances, we must hold that it is not sufficiently convincing.

Looking to Figure 1 of the McKay patent, we believe that it adequately expresses the content of that inventor's disclosure. Looking then to the drawing accompanying the application on review, there is practically no difference. Both drawings present shingles which are darker at the lap end and gradually lighten in color at the butt end. This cannot be disputed by any one looking at the two side by side. Design patents are presumably based on what the application therefor discloses its appearance to be. While, as indicated, the applicant asks that this rule be not applied in this instance because, as evidenced by the proof submitted by him, the McKay process would not actually produce shingles like those shown in the drawings. We agree thoroughly with the Examiner and Board of Appeals in rejecting this contention by applicant.

[3] Even assuming that the McKay process is inoperative, as claimed by the applicant, our jurisdictional predecessor, the Court of Appeals for the District of Columbia, in the case of *In re Decker*, 36 App. D. C. 104, said: (headnote) "a patent will not be granted for a product described in prior patents even though the devices for making the product as so described are inoperative." By parallel, this language might easily be applied to the facts of the instant case where, although McKay's process may be inoperative, his conception of the roof design in question was clear and complete, thus indicating lack of invention in the design covered by the appealed claim. See *Cohn v. United States Corset Co.*, 93 U. S. 366; *In re Marden et al.*, 18 CCPA (Patents) 1119, 48 F.2d 428; *In re Crosby*, 34 CCPA (Patents) 701, 157 F.2d 198, and authorities cited therein.

This case impresses us as being confined to one decisive issue, and we feel that the Board of Appeals was manifestly correct and cite with approval the following from its opinion:

> • • • It seems to us that McKay does disclose in Figure 1, and in various parts of his specification, a roof design which is substantially the same as appellant's. • • • Furthermore, it seems to us wholly immaterial for the purposes of a design disclosure how the roof design shown in Figure 1 of McKay is produced since it clearly discloses a certain concept which could be put into practice by merely painting or stippling the shingles to look like the design disclosed in the specification and illustrated in Figure 1. It is our opinion that McKay clearly discloses the design shown in appellant's drawing and the Examiner's rejection thereon is affirmed.

[4] For the reasons hereinbefore stated, the decision of the Board of Appeals is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,131,406, Mosmieri & Dal Pino, Device for tempering sheets of glass, of steel and other material, by air; 2,167,294, G. P. Despret, Process and apparatus for the hardening of glass, D. C., N. D. Ill. (Chicago), Doc. 51c2136, *The American Security Co.* v. *Dearborn Glass Co.* By stipulation cause dismissed without prejudice Sept. 2, 1953.

2,151,577, W. Withington, Weed cutting implement, filed Sept. 11, 1953, D. C., W. D. Wis. (Madison), Doc. 2507, *True Temper Corp.* v. *The Village Blacksmith Co.*

2,163,142, A. H. Frazier, Concealable stairs, filed May 15, 1953, D. C., M. D. Ga. (Columbus), Doc. 463, *A. H. Frazier* v. *Craig Wood Products Co. et al.*

2,167,294. (See 2,131,406.)

2,219,218. Berger & Kaiser, Pipe and hose union; 2,219,266, P. Hirsch, Hose and pipe coupling; 2,266,211, R. Kaiser, Hose connection; 2,476,480, Burckle & Christman, Hose and tube fitting, filed Sept. 3, 1953, D. C., E. D. Mich. (Detroit), Doc. 12858, *Aeroquip Corp.* v. *V. L. Graf Co.*

2,219,266. (See 2,219,218.) 2,266,211. (See 2,219,218.)

2,450,866, Morehouse & Mayfield, Poultry treatment composition, D. C., W. D. Mo. (Kansas City), Doc. 8186, *Dr. Salsbury's Laboratories* v. *I. D. Russell Co. Laboratories.* Memorandum and order (sustaining motion for summary judgment and dismissing case) (notice Sept. 8, 1953).

2,476,480. (See 2,219,218.)

2,588,101. (See Re. 23,620.)

2,591,905, B. Kennedy, Glove, filed Sept. 9, 1953, D. C., N. D. N. Y. (Utica), Doc. 4959, *Glovecraft, Inc.* v. *Gates-Mills, Inc.* Doc. 4960, *Glovecraft, Inc.* v. *Daytona Glove Corp.* Doc. 4961, *Glovecraft, Inc.* v. *Imperial Glove Co., Inc.*

2,611,935, Kramer & Stapp, Ventilated awning, D. C., S. D. Calif. (Los Angeles), Doc. 15599–C, *D. Kramer et al.* v. *S. Rosenmutter et al.* Consent judgment holding patent valid, infringed by S. Rosenmutter, cause dismissed as to all remaining defendants (notice Sept. 1, 1953).

2,637,224, W. F. Mitchell, Ridge reamer; 2,638,799, H. R. Billeter, same, filed Sept. 1, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1840, *Ammco Tools, Inc.* v. *Lisle Corp. et al.*

2,637,241, Webber & Erickson, Stud for explosive installations, filed Sept. 9, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1886, *Powder Power Tool Corp.* v. *Powder Actuated Tool Co., Inc., et al.*

2,638,032, Kieffer & Strom, Telescope having prism movable for focusing; Des. 165,231, same, Telescope, D. C., S. D. Calif. (Los Angeles), Doc. 15631–WM, *Bausch & Lomb Optical Co.* v. *Bushnell Optical Corp. of America et al.* Judgment holding patent valid and infringed, injunction; cause dismissed without prejudice (notice Sept. 3, 1953).

2,638,799. (See 2,637,224.)

Re. 23,620 (of 2,588,101), G. A. Finder, Musical instrument construction, filed Sept. 4, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15841–Y, *Fin-Der, Inc.* v. *Custombilt Plastic Molding Co., Inc., et al.*

Des. 161,296, H. K. Tourneau, Combined watchcase and bracelet, D. C., S. D. N. Y., Doc. 77/351, *Tourneau, Inc.* v. *Tishman & Lipp.* Judgment holding patent invalid and dismissing complaint Aug. 31, 1953.

Des. 165,231. (See 2,638,032.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 197,673, T. M. 510,641, Des Moines Wholesale Grocer Co., Canned fish, canned fruits, etc.; T. M. 235,180, T. M. 511,329, Twin City Wholesale Grocer Co., Overalls; T. M. 243,059, same, Flour; T. M. 511,487, same, Synthetic food coloring material; T. M. 512,621, same, Toothpicks; T. M. 513,494, same, Synthetic fruit flavored syrups for beverage bases, filed Nov. 30, 1953. D. C., S. D. Calif. (Los Angeles), Doc. 13654–HW, *Fairway Food Co., Inc.* v. *Fairway Markets, Inc., et al.*

T. M. 235,180. (See T. M. 197,673.)

T. M. 243,059. (See T. M. 197,673.)

T. M. 280,509, Kent Brush Sales Corp., Tooth-brushes, hair brushes, etc., D. C., S. D. N. Y., Doc. 80/296, *G. H. Kent & Sons, Ltd.* v. *P. Lorillard Co. et al.* Order of discontinuance as to Young & Rubican, Inc., May 5, 1953; judgment dismissing amended complaint on merits Sept. 3, 1953.

T. M. 322,241, The Grove Laboratories, Inc., Medicinal tablets for relief of colds, filed Sept. 3, 1953, D. C., N. D. N. Y. (Utica), Doc. 4951, *Grove Laboratories, Inc.* v. *Approved Pharmaceutical Corp.*

T. M. 510,641. (See T. M. 197,673.)

T. M. 511,329. (See T. M. 197,673.)

T. M. 511,487. (See T. M. 197,673.)

T. M. 512,621. (See T. M. 197,673.)

T. M. 513,494. (See T. M. 197,673.)

T. M. 563,084, Model-Etts Corp., Medicinal tablets, filed June 5, 1953, D. C., S. D. N. Y., Doc. 85/300, *Model-Etts Corp.* v. *Merck & Co., Inc.*

T. M. 571,045, Par Equipment, Inc., Industrial mixers for blending of oil, etc., D. C., N. D. Okla. (Tulsa), Doc. 3257, *Sawyer-Jensen-Ross Co.* v. *Par Equipment, Inc.* Judgment for plaintiff Sept. 2, 1953.

NOTICES

Commissioner's Administrative Order No. 44

Effective November 2, 1953, Division 68 is abolished and the following class transfers therefrom are ordered:

Class 64, Machine Elements, Shafting and Flexible Shaft Couplings, and Class 279, Chucks or Sockets, to Division 28.

Class 77, Boring and Drilling, to Division 22.

Class 188, Brakes, to Division 18.

Class 192, Clutches and Power-Stop Control Subs. 3.2, 12 through 150, to Division 12.

ROBERT C. WATSON,
Commissioner of Patents.

Nov. 5, 1953.

Adjudicated Patents

(D. C. Okla.) Fletcher Patent No. 1,856,627, for a cutter for earth boring drills, *Held* valid and infringed, but misuse found. *Hughes Tool Company* v. *Ford*, 114 F. Supp. 525; 98 USPQ 102.

(D. C. Okla.) Scott and Garfield Patent No. 1,983,316, for a three-cone bit, *Held* valid and infringed, but misuse found. *Id.*

(D. C. Okla.) Scott, Garfield, and Cockrum Patent No. 2,333,746, for cutter teeth for well drills. Claims 1 and 4, *Held* invalid, but misuse found. *Id.*

(D. C. N. Y.) Hendel and Stupelli Patent No. 2,407,276, for a shock absorber for hydraulic systems. Claims 1, 2, and 3, *Held* not infringed. *Hendel et al.* v. *Kam Water Heater Manufacturing Company, Inc.*, 114 F. Supp. 567; 97 USPQ 405.

(D. C. Tex.) Schild Patent No. 2,464,000, for a louver mechanism for attic ventilation, *Held* invalid and not infringed. *Schild* v. *Jennings*, 114 F. Supp. 569; — USPQ —.

(C. A. Tex.) Graham Patent No. 2,464,255, for a brace clamp, *Held* invalid. *Graham et al.* v. *Jeoffroy Mfg., Inc., et al.*, 206 F.2d 769; 98 USPQ 421.

(C. A. Tex.) Graham Patent No. 2,493,811, for a vibrating plow and mounting therefor. Claims 1, 2, and 4 to 8, *Held* valid and infringed. *Jeoffroy Mfg., Inc., et al.* v. *Graham et al.*, 206 F.2d 772; 98 USPQ 424.

(D. C. Calif.) Pierce Patent No. 2,501,962, for a process for expanding earth materials, *Held* invalid. *Muehleisen et al.* v. *Pierce*, 114 F. Supp. 503; 98 USPQ 349.

(D. C. Mass.) Rippen Reissue Patent No. 22,091, for a sheathing system. Claims 10 to 13, *Held* not infringed. *Paley et al.* v. *Bethlehem Steel Company*, 114 F. Supp. 579; 98 USPQ 211.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,571,159, W. P. Osgood, Power transmission mechanism, decided Oct. 27, 1953, claim 1.

Pat. 2,621,313, R. K. Steinberg, Glow transfer storage device, decided Nov. 5, 1953, claims 11 and 13.

Pat. 2,628,415, T. J. Brown, Toolholder, decided Oct. 21, 1953, claim 1.

Disclaimers

2,621,313.—*Richard K. Steinberg*, Poughkeepsie, N. Y. GLOW TRANSFER STORAGE DEVICE. Patent dated Dec. 9, 1952. Disclaimer filed Oct. 23, 1953, by the assignee, *International Business Machines Corporation*.

Hereby enters this disclaimer to claims 11 and 13 of said patent.

2,641,621.—*Albert E. Greene*, Evergreen Point, Medina, Wash. ELECTRIC INDUCTION FURNACE. Patent dated June 9, 1953. Disclaimer filed Oct. 30, 1953, by the inventor.

Hereby enters this disclaimer to claim 4 of said patent.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbey Etna Company, assignee: *See*—
Etna Machine Company, The.

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. Serial No. 648,976, Dec. 1. Class 18.

Ace Co., The, Ocala, Fla. Electric vacuum cleaners. Serial No. 648,274, Dec. 1. Class 21.

Airequipt Manufacturing Co., Inc., New Rochelle, N. Y. Photographic equipment and accessories. Serial No. 645,940, Dec. 1. Class 26.

Air Reduction Company, Incorporated, New York, N. Y. Disposable therapy and aviation masks. Serial No. 648,904, Dec. 1. Class 44.

Alabe Crafts, Inc., Cincinnati, Ohio. Fortune telling game. Serial No. 652,371, Dec. 1. Class 22.

Allied Mills, Inc., Chicago, Ill. Pig and hog feed. Serial No. 645,688, Dec. 1. Class 46.

Alonge, Paolo, Inc., New York, N. Y. Canned tomato products. Serial No. 619,223, Dec. 1. Class 46.

Armstrong Creamery Co., Wichita, Kans. Ice cream. Serial No. 632,410, Dec. 1. Class 46.

B. M. C. Manufacturing Corp., Binghamton, N. Y. Juvenile wheeled vehicles—namely, toy automobiles, etc. Serial No. 651,382, Dec. 1. Class 22.

Baroque Record: *See*—
Rosenthal, Myles J.

Bauer Bros. Company, The, Springfield, Ohio. Nut coolers. Serial No. 624,915, Dec. 1. Class 31.

Bauer's: *See*—
House of Bauer, The.

Bayles, S. Heagan, New York, N. Y. Tablets for the relief of pain. Serial No. 629,228, Dec. 1. Class 18.

Bedford Products, Inc., Dunkirk, N. Y. Fruit jellies, fruit preserves, tomato preserves, etc. Serial No. 650,770, Dec. 1. Class 46.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Flashlight batteries and flashlights. Serial No. 648,355, Dec. 1. Class 21.

Bell & Gossett Company, Morton Grove, Ill. Machinery packing. Serial No. 613,801, Dec. 1. Class 35.

Botany Mills, Inc., Passaic, N. J. Shampoo. Serial No. 646,985, Dec. 1. Class 52.

Brisk Waterproofing Co., Inc., New York, N. Y., and elsewhere in the United States. Renovation of masonry structures. Serial Nos. 646,986–7, Dec. 1. Class 103.

Bristol Company, The, Waterbury, Conn. Electric switches. Serial No. 637,359, Dec. 1. Class 21.

Bropard Company, Rome, N. Y. Solid material in a glass jar, used for the cleaning of stainless-steel copper pots and pans. Serial No. 631,538, Dec. 1. Class 52.

Bruner Corporation, Milwaukee, Wis. Softeners of the ion exchange type and combination water softener and iron remover units. Serial No. 632,977, Dec. 1. Class 31.

C and C Produce, Inc., Wilder, Idaho. Fresh deciduous fruits and fresh vegetables. Serial No. 635,173, Dec. 1. Class 46.

Caled Products Company, Inc., Cottage City, Brentwood, Md. Spot dyers, waterproofing product, sizing compound, etc. Serial No. 637,753, Dec. 1. Class 6.

Calnevar Company, The, Los Angeles, Calif. Wheel discs. Serial No. 650,776, Dec. 1. Class 19.

Campbell, Joseph L., A. H. Osmond, and G. C. Hutchinson, Butler, Pa. Particular liquid composition for the treatment of fabrics. Serial No. 645,105, Dec. 1. Class 6.

Capcon, Inc., New York, N. Y. Electrical condensers and capacitors and electronic filters. Serial No. 636,683, Dec. 1. Class 21.

Carol Art, Inc., New York, N. Y. Cleaning of wedding gowns. Serial No. 647,598, Dec. 1. Class 103.

Central Soya Company, Inc., Fort Wayne, Ind. Meal used in the feeding of livestock and poultry. Serial No. 648,367, Dec. 1. Class 46.

Chemical Electronic Engineering, Inc., Matawan, N. J. Preparation to clean and lubricate television tuners. Serial No. 642,620, Dec. 1. Class 52.

Chemstrand Corporation, The, Decatur, Ala. Synthetic fiber-forming polymers. Serial No. 631,789, Dec. 1. Class 6.

Cherrin Bros. Company, Detroit, Mich. Candy. Serial No. 618,842, Dec. 1. Class 46.

Chirurgie Union, Genossenschaft der Chirurgie-Mechaniker, E. G. m. b. H., Tuttlingen/Wurttemberg, Germany, now by change of name Medicon Chirurgiemechaniker-genossenschaft eingetragene Genossenschaft mit beschränkter Haftpflicht. Medical and dental instruments and equipment. Serial No. 629,271, Dec. 1. Class 44.

Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Ontario, Canada. Agglomerated masses. Serial No. 636,410, Dec. 1. Class 1.

Ciba Limited, Basel, Switzerland. Coal tar colors; chemical products. Serial No. 642,012, Dec. 1. Class 6.

Claeys, J. C., Candy Company: *See*—
Claeys, Virgie A.

Claeys, Virgie A., doing business as J. C. Claeys Candy Company, South Bend, Ind. Candy bars. Serial No. 647,762, Dec. 1. Class 46.

County Surgical Co., Inc., Brooklyn, N. Y. Medical and surgical appliance. Serial No. 635,218, Dec. 1. Class 44.

Courtly Jewels, Inc., New York, N. Y. Necklaces, bracelets, earrings, etc. Serial No. 645,957, Dec. 1. Class 28.

Crutcher-Rolfe-Cummings, Inc., Houston, Tex. Maintenance and repair of machines and equipment. Serial No. 596,396, Dec. 1. Class 103.

Cuxson, Gerrard & Company Limited, Worcestershire and Oldbury, Worcestershire, England. Corn, callous and similar plasters. Serial No. 640,786, Dec. 1. Class 44.

Davidson Bros. Inc., Detroit, Mich. Television sets. Serial No. 643,469, Dec. 1. Class 21.

Davidson, Julius R., doing business as Kadd Manufacturing Company, Houston, Tex. Fishing tackle boxes, and parts thereof. Serial No. 648,375, Dec. 1. Class 22.

Davidson Plywood and Lumber Co., Los Angeles, Calif. Prefabricated plywood wall and ceiling panels. Serial No. 644,665, Dec. 1. Class 12.

Davis Bros. Fisheries Co., Inc., Gloucester, Mass. Prepared fish. Serial No. 588,941, Dec. 1. Class 46.

Davis Coal and Coke, Inc., Baltimore, Md. Coal. Serial Nos. 637,116–17, Dec. 1. Class 1.

Dayton Rubber Company, The, Dayton, Ohio. Rubber vehicle tires and tubes. Serial No. 647,479, Dec. 1. Class 35.

Delmar Products Company, Cincinnati, Ohio. Oleomargarine. Serial No. 640,262, Dec. 1. Class 46.

Dental Manufacturing Paschwitx & Company, Berlin and Berlin-Lichterfelde, Germany. Dental apparatus. Serial No. 642,874, Dec. 1. Class 44.

DoAll Company, The, Des Plaines, Ill. Band saw blades in bulk length and hack saw blades. Serial No. 647,765, Dec. 1. Class 23.

Dynaland Products, Inc., St. George, Utah. Boxed handicraft sets. Serial No. 652,109, Dec. 1. Class 22.

Eaton Laboratories Inc., Norwich, N. Y. Antibacterial preparations. Serial No. 637,577, Dec. 1. Class 18.

Electro-Voice, Incorporated, Buchanan, Mich. Loudspeaker. Serial No. 638,072, Dec. 1. Class 21.

Etna Machine Company, The, assignor to Abbey Etna Company, Toledo, Ohio. Electrically operated tube forming and welding machines. Serial No. 631,923, Dec. 1. Class 21.

Exema-Lick Products Co.: *See*—
Exema Products Company.

Exema Products Company, also doing business as Exema-Lick Products Co., Bluefield, Va. Medicated ointment. Serial No. 633,758, Dec. 1. Class 18.

Fearn Foods Inc., Franklin Park, Ill. Canned soups and soup bases and canned soup concentrates, etc. Serial No. 616,373, Dec. 1. Class 46.

First National Pickle Products, Brooklyn, N. Y. Visible container packaged fresh sauerkraut. Serial No. 616,850, Dec. 1. Class 46.

Flintkote Company, The, New York, N. Y. Mastic floor surfacing composition. Serial No. 629,005, Dec. 1. Class 12.

Food Fair Stores, Inc., Philadelphia, Pa. Cheese. Serial No. 645,790, Dec. 1. Class 46.

Foster Grant Co., Inc., Leominster, Mass. Molding powders and compounds of plastic material. Serial No. 643,312, Dec. 1. Class 6.

French and Gilbert, Incorporated, Winchester, Ky. Soap. Serial No. 647,068, Dec. 1. Class 52.

Froust, Charles E., & Co., Montreal, Quebec, Canada. Radio-active pharmaceutical and biological substances. Serial No. 642,811, Dec. 1. Class 18.

General Dyestuff Corporation, New York, N. Y. Vinyl ether copolymers. Serial No. 641,550, Dec. 1. Class 6.

Gerlinger, Walter, Inc., Milwaukee, Wis. Preparation of silica and fire clay which forms a heat resistant lining in a foundry cupola. Serial No. 640,930, Dec. 1. Class 12.

Glasgow, Ferne H., San Francisco, Calif. Children's games. Serial No. 637,435, Dec. 1. Class 22.

Golden Citrus Juices, Inc., Fullerton, Calif. Fresh frozen avocado spread. Serial No. 639,697, Dec. 1. Class 46.

Goodall Rubber Company, Trenton, N. J. Conveyor belts. Serial No. 648,391, Dec. 1. Class 35.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Conveyor belts. Serial No. 642,813, Dec. 1. Class 35.

Gordy Tire Company, Atlanta, Ga. Recapped automobile tires. Serial No. 646,068, Dec. 1. Class 35.

Gould-National Batteries, Inc., St. Paul, Minn. Storage batteries. Serial Nos. 648,392–3, Dec. 1. Class 21.

Green Thumb Products, Toledo, Ohio. Nursery products. Serial Nos. 635,531–2, Dec. 1. Class 1.

Haines, David C., Salt Lake City, Utah. Educational toy. Serial No. 624,233, Dec. 1. Class 22.

Hallicrafters Co., The, Chicago, Ill. Radio receivers. Serial No. 637,656, Dec. 1. Class 21.

Hallmark Ring Corporation, Chicago, Ill. Ladies' and men's diamond rings, wedding stone rings, stone rings, etc. Serial No. 634,084, Dec. 1. Class 28.

Harris, D. P., Hardware & Manufacturing Co., Inc., New York, N. Y. Bicycles. Serial No. 622,540, Dec. 1. Class 19.

Hawthorne, Herb J., Inc., Houston, Tex. Drilling bits. Serial No. 618,116, Dec. 1. Class 23.

Hayman Window Company, Denver, Colo. Window sashes and frames. Serial No. 636,636, Dec. 1. Class 12.

Hess, Dr., & Clark, Inc., Ashland, Ohio. Vitamin and mineral supplement. Serial No. 643,957, Dec. 1. Class 18.

Hill, Norman W., doing business as M. J. Laughery Company, Pittsburgh, Pa. Tea, coffee, vinegar, etc. Serial No. 640,515, Dec. 1. Class 46.

Hitachi Limited, Tokyo and Chiyodaku, Tokyo, Japan. Pipes, parts of pipes, and valves, etc. Serial No. 643,839, Dec. 1. Class 13.

Horex-Columbus-Werk K.-G. Fritz Kleemann, Bad Homburg, Germany. Motorcycles. Serial No. 636,911, Dec. 1. Class 19.

House of Bauer, The, doing business as Bauer's, Lincoln, Nebr. Candy. Serial No. 649,865, Dec. 1. Class 46.

House of Lundborg: *See*—
Lander Co. Inc., The.

Hutchinson, Gordon C.: *See*—
Campbell, Joseph L., Osmond, and Hutchinson.

Industrial Soap Company, St. Louis, Mo. Cleaning composition. Serial No. 635,415, Dec. 1. Class 52.

International Minerals & Chemical Corporation, Chicago, Ill. Fertilizers. Serial No. 639,998, Dec. 1. Class 10.

International Mutoscope Corporation, Long Island City, N. Y. Photographic film. Serial No. 637,446, Dec. 1. Class 26.

International Salt Company, Scranton, Pa. Ingredient of a chemical preparation. Serial No. 641,841, Dec. 1. Class 6.

Irvington Varnish & Insulator Company, Irvington, N. J., assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn. Solvents and resinous organic reaction products. Serial No. 629,731, Dec. 1. Class 6.

Island Creek Coal Sales Company, Huntington, W. Va. Coal. Serial No. 644,845, Dec. 1. Class 1.

JFD Manufacturing Co. Inc., Brooklyn, N. Y. Television antennae. Serial No. 643,960, Dec. 1. Class 21.

JJ Manufacturing Company: *See*—
Johnstone, Jack.

Jabsco Pump Company, Burbank, Calif. Self priming pumps. Serial No. 648,106, Dec. 1. Class 23.

Jackson, Alex, doing business under the firm name and style of Lakewood Poultry Farm, Duluth, Minn. Fresh eggs and frozen chickens. Serial No. 644,038, Dec. 1. Class 46.

Jergens, Andrew, Company, The, Cincinnati, Ohio. Face cream. Serial No. 643,335, Dec. 1. Class 51.

Jergens, Andrew, Company, The, Cincinnati, Ohio. Bar soap. Serial No. 645,318, Dec. 1. Class 52.

Johns-Manville Corporation, New York, N. Y. Synthetic magnesium silicates. Serial No. 641,732, Dec. 1. Class 6.

Johnson, Forest E., doing business as Forest E. Johnson Boat Works, Miami, Fla. Power boats and cruisers. Serial No. 647,357, Dec. 1. Class 19.

Johnson, Forest E., Boat Works: *See*—
Johnson, Forest E.

Johnstone, Jack, doing business under the firm name and style of JJ Manufacturing Company, Los Angeles, Calif. Fish hooks. Serial No. 643,550, Dec. 1. Class 22.

Kädi Manufacturing Company: *See*—
Davidson, Julius R.

Kim, Joseph K. C., Honolulu, Oahu, Hawaii. Canned pickled cabbages and turnips. Serial No. 623,194, Dec. 1. Class 46.

Kower, Alexander, doing business as Alexander Kower Co., Chicago, Ill. Watches. Serial No. 642,758, Dec. 1. Class 27.

Kower, Alexander, Co.: *See*—
Kower, Alexander.

Lakewood Poultry Farm: *See*—
Jackson, Alex.

Lander Co. Inc., The, doing business as House of Lundborg, New York, N. Y. Liquid hair waving preparations. Serial No. 634,792, Dec. 1. Class 51.

Larvacide Products, Inc., New York, N. Y. Soil fumigants. Serial No. 647,852, Dec. 1. Class 6.

Larvacide Products, Inc., New York, N. Y. Insecticides, fungicides, pesticides, etc. Serial No. 647,853, Dec. 1. Class 6.

Laughery, N. J., Company: *See*—
Hill, Norman W.

Le Blanc, Fernest J., doing business as Tasty-Tempt Seafood Products Co., Delcambre, La. Frozen fresh and barbecued shrimp and frozen fresh dressed and barbecued crabs. Serial No. 629,296, Dec. 1. Class 46.

Libby, McNeill & Libby, Chicago, Ill. Livestock feed. Serial No. 627,953, Dec. 1. Class 46.

Lurgi Gesellschaft für Warmetechnik m. b. H., Frankfurt, Germany. Agents and solvents of the nature of hydrocarbons. Serial No. 631,011, Dec. 1. Class 6.

Mari-Kay Creations, Elmhurst, Ill. Dolls and doll clothes. Serial No. 650,060, Dec. 1. Class 22.

Mathieson Chemical Corporation, New York, N. Y. Lipotropic agent. Serial No. 648,119, Dec. 1. Class 18.

Mathieson Chemical Corporation, New York, N. Y. Nutritive stimulant. Serial No. 648,120, Dec. 1. Class 18.

Mathieson Chemical Corporation, New York, N. Y. Antispasmodic preparation. Serial No. 648,613, Dec. 1. Class 18.

Medical Coaches Incorporated, New York, N. Y. Self-propelled or truck-semi-trailer combination vans. Serial No. 642,039, Dec. 1. Class 19.

Medicon Chirurgiemechaniker-genossenschaft eingetragene Genossenschaft mit beschränkter Haftpflicht: *See*—
Chirurgie Union, Genossenschaft der Chirurgie-Mechaniker, E. G. m. b. H.

Medvedeff, Nicholas J., Hanover, Mass. Model aircraft. Serial No. 625,684, Dec. 1. Class 22.

Mil-Jam Instrument Corporation: *See*—
Miljam Plastic Instrument Manufacturing Co., Inc.

Miljam Plastic Instrument Manufacturing Co., Inc., Washington, D. C., now by change of name Mil-Jam Instrument Corporation. Hypodermic syringes. Serial No. 636,994, Dec. 1. Class 44.

Minnesota Mining and Manufacturing Company, assignee: *See*—
Irvington Varnish & Insulator Company.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Hard, tough, sprayable, hydraulic setting plastic surfacing material. Serial No. 581,434, Dec. 1. Class 12.

Moore, Samuel & Company, Mantua, Ohio. Plastic and/or metal tubing. Serial Nos. 641,074–5, Dec. 1. Class 13.

Mullins Manufacturing Corporation, Salem and Warren, Ohio. Stamped, pressed, or drawn steel sinks and combined dishwasher sinks, etc. Serial No. 627,269, Dec. 1. Class 13.

Murex Limited, Rainham, Essex, England. Magnets. Serial No. 646,793 Dec. 1 Class 21.

Myers, E. A., & Sons, Inc., Mount Lebanon, Pittsburgh, Pa. Electrically operable hearing aids. Serial No. 648,555, Dec. 1. Class 44.

National Fireworks Ordnance Corporation, West Hanover, Mass. Metallized high explosives. Serial No. 639,070, Dec. 1. Class 9.

Neumark, Martha, Bayside, N. Y. Portable piano-type instruments. Serial No. 644,862, Dec. 1. Class 36.

New England Provision Co., Inc., Boston, Mass. Frankfurts. Serial No. 650,826, Dec. 1. Class 46.

New Era Fox, Inc., Pontiac, Mich. Heat conserving attachment for connection with exhaust flue of furnaces and heaters. Serial No. 624,288, Dec. 1. Class 34.

Nion Corporation Los Angeles, Calif. Sterile suspension of estrogenic substances. Serial No. 631,677, Dec. 1. Class 18.

Norda Essential Oil & Chemical Company, Inc., New York, N. Y. Concentrated orange, lemon, and lime juices. Serial No. 648,779, Dec. 1. Class 46.

Nordberg Manufacturing Company, Milwaukee, Wis. Screening and separating equipment. Serial No. 621,085, Dec. 1. Class 23.

Northwest Plastics, Inc., St. Paul, Minn. Boats. Serial No. 648,686, Dec. 1. Class 19.

Nymanbolagen Aktiebolag, Uppsala, Sweden. Bicycles and structural parts thereof. Serial Nos. 611,484–5, Dec. 1. Class 19.

Octavio Pando y Ruiz, Havana, Cuba. Wax for dental purposes. Serial No. 648,959, Dec. 1. Class 44.

Ohmite Manufacturing Company, Chicago, Ill. Electrical circuit control elements. Serial No. 606,235, Dec. 1. Class 21.

Oil-Mate Corporation, Seattle, Wash. Synthetic hydrocarbon lubricant. Serial No. 644,136, Dec. 1. Class 15.

Old 97 Company: *See*—
Old 97 Manufacturing Company.

Old 97 Manufacturing Company, also doing business as Old 97 Company, Tampa, Fla. Medicinal preparation. Serial No. 629,316, Dec. 1. Class 18.

Orringer Pickle Company, New Bern, N. C. Relishes and pickles. Serial No. 628,551, Dec. 1. Class 46.

Orsi, Prof. Romeo, S. R. L., Milan Italy. Musical instruments. Serial No. 642,418, Dec. 1. Class 36.

Osco Chemical Company, Atlanta, Ga. Composition useful for the control of mange, fungus, etc. Serial No. 630,510, Dec. 1. Class 18.

Osmond, Aubrey H.: *See*—
Campbell, Joseph L., A. H. Osmond, and G. C. Hutchinson.

Outboard, Marine & Manufacturing Company, Waukegan, Ill. Outboard motors. Serial No. 648,422, Dec. 1. Class 23.

Pacific Reefer Fisheries, Tacoma, Wash. Canned fish. Serial No. 647,650, Dec. 1. Class 46.

Pagliuso Engineering Company: *See*—
Pagliuso, R. J.

Pagliuso, R. J., doing business as Pagliuso Engineering Company, Glendale, Calif. Electrical connectors. Serial No. 646,421, Dec. 1. Class 21.

Palco Chemical Corp., Charlestown, Boston, Mass. Sprayable, liquid chemical preparation. Serial No. 638,808, Dec. 1. Class 6.

Palmer, Edward C., St. Louis, Mo. Wild bird food. Serial No. 615,096, Dec. 1. Class 46.

Paristyle Beauty Salons, Inc.,: *See*—
Paristyle Novelty Co. Inc.

Paristyle Novelty Co. Inc., New York, N. Y., now by change of name Paristyle Beauty Salons, Inc. Permanent waving lotions, solutions and tonics. Serial No. 582,385, Dec. 1. Class 51.

Permahead Glass Corporation, New York and Brooklyn, N. Y. Drinking glasses. Serial No. 598,542, Dec. 1. Class 33.

Perolin Company, Inc., The, Dover, Del., and New York, N. Y. Apparatus embodying chemical container, pipe connections, and valves, etc. Serial No. 645,508, Dec. 1. Class 13.

Phelps Dodge Copper Products Corporation, Dover, Del., and New York, N. Y. Magnet wire, bare and insulated. Serial No. 646,162, Dec. 1. Class 21.

Piggly Wiggly Corporation, Jacksonville, Fla. Oleomargarine. Serial No. 651,466, Dec. 1. Class 46.

Plankinton Packing Co., Milwaukee, Wis., assignor to Swift & Company, Chicago, Ill. Meat products. Serial No. 638,509, Dec. 1. Class 46.

Polaroid Corporation, Cambridge, Mass. Apparatus for treating photographic materials, holders for photographic materials, etc. Serial No. 631,567, Dec. 1. Class 26.

Polaroid Corporation, Cambridge, Mass. Apparatus for treating photographic materials, holders for photographic materials, etc. Serial No. 631,572, Dec. 1. Class 26.

Preis, H. P., Engraving Machine Co., Hillside, N. J. Engraving machines and markers and parts thereof. Serial No. 647,805, Dec. 1. Class 23.

Procter & Gamble Company, The, Cincinnati, Ohio. Modified synthetic detergent. Serial No. 636,800, Dec. 1. Class 52.

Quaker Chemical Products Corporation, Conshohocken, Pa. Lubricants. Serial Nos. 642,902–3, Dec. 1. Class 15.

Quaker Chemical Products Corporation, Conshohocken, Pa. Lubricanta. Serial No. 642,905, Dec. 1. Class 15.

Quaker Oats Company, The, Chicago, Ill. Furan chemicals and derivatives thereof. Serial No. 647,443, Dec. 1. Class 6.

Red Bird Farms, Littleton, Colo. Dressed poultry. Serial No. 618,243, Dec. 1. Class 46.

Refined Products Corporation, Lyndhurst, N. J. Organic sequestering agent. Serial No. 632,048, Dec. 1. Class 6.

Rehder, Henry B., doing business as Will Rehder, Florist, Wilmington, N. C. Cut flowers. Serial No. 625,758, Dec. 1. Class 1.

Rehder, Will, Florist: *See*—
Rehder, Henry B.

Reliance Chemicals Corporation, Houston, Tex. Preserved Micro-organisms and their enzyme systems. Serial No. 647,657. Dec. 1. Class 6.

Reliance Dental Mfg. Co., Chicago, Ill. Dental product. Serial No. 642,568, Dec. 1. Class 44.

Rilling Company, New York, N. Y., now by change of name The Rilling-Dermetics Company. Cold wave solutions. Serial No. 613,307. Dec. 1. Class 51.

Rilling-Dermetics Company, The: *See*—
Rilling Company.

Ritter, Katharine R. K., Paris, France. Rulers, rulers used for calculations, calculating charts. Serial No. 630,864, Dec. 1. Class 26.

River Plate Corporation, The, New York, N. Y. Blend of tanning extracts. Serial No. 639,079, Dec. 1. Class 6.

Rolley: *See*—
Rolley, Inc.

Rolley, Inc., doing business under the name and style of Rolley, San Francisco, Calif. Suntan cream. Serial No. 643,792, Dec. 1. Class 51.

Rosenthal, Myles J., doing business as Baroque Record, New York, N. Y. Grooved phonograph records. Serial No. 645,835, Dec. 1. Class 36.

Saenger, Olly, Inc., New York, N. Y. Cosmetic facial packs. Serial No. 635,149, Dec. 1. Class 51.

Safeway Stores, Incorporated, Oakland, Calif. Frozen berries and frozen vegetables. Serial No. 641,209, Dec. 1. Class 46.

Scalamandré Silks, Inc., Long Island City, N. Y. Textile fabrics. Serial No. 639,290, Dec. 1. Class 42.

Schacht Rubber Mfg. Co., Huntington, Ind. Household and plumbing goods. Serial No. 634,490, Dec. 1. Class 13.

Schieffelin & Co., New York, N. Y. Tonic stomachic. Serial No. 649,022, Dec. 1. Class 18.

Schlampp, P., & Son, Incorporated, Minneapolis, Minn. Cleaning of fur or fur lined wearing apparel. Serial No. 647,048, Dec. 1. Class 103.

Schueler & Co., New York, N. Y. Surgical scissors, intestinal forceps, tissue forceps, etc. Serial No. 648,434, Dec. 1. Class 44.

Selberling Rubber Company, Barberton, Ohio. Pneumatic rubber tires. Serial No. 649,391, Dec. 1. Class 35.

Servotrol Co., Chicago, Ill. Potentiometers. Serial No. 640,761, Dec. 1. Class 21.

Shoals American Steel Company, Inc., Sheffield and Muscle Shoals, Ala. Ornamental iron products—namely, stairs and railings. Serial No. 622,466, Dec. 1. Class 12.

Snudhook Corporation, Dearborn, Mich. Clamp type traction bars or lugs for mounting on vehicle wheels. Serial No. 638,781, Dec. 1. Class 13.

Sole D'Italia Wholesale Grocery: *See*—
Vaccarino, Joseph.

Southern Belting Company, Atlanta, Ga. Leather belting for textile machinery. Serial No. 633,599, Dec. 1. Class 35.

Southern Biscuit Company: *See*—
Weston Biscuit Company, Inc.

Southern States Cooperative, Incorporated, Richmond, Va. Stock feed. Serial No. 647,320, Dec. 1. Class 46.

Spread Eagle Manufacturing Company, Pella, Iowa. Fish hooks. Serial No. 614,968, Dec. 1. Class 22.

Staats Oil Company, Malvern, Pa. Liquified petroleum. Serial No. 625,303, Dec. 1. Class 6.

Stanislaus Food Products Company, Modesto, Calif. Canned fruits, canned vegetables, canned fruit cocktail, etc. Serial No. 650,284, Dec. 1. Class 46.

Steffen Dairy Foods Company, Inc., Wichita, Kans. Low fat content fluid milk. Serial No. 648,336, Dec. 1. Class 46.

Stephenson Corporation, Red Bank, N. J. Resuscitators. Serial No. 637,465, Dec. 1. Class 44.

Strandberg Engineering Laboratories, Greensboro, N. C. Electronic instrument for testing the moisture content of textiles and the like. Serial No. 646,082, Dec. 1. Class 26.

Strickland, J., and Co., Memphis, Tenn. Hair dressing. Serial No. 597,710, Dec. 1. Class 51.

Strohmeyer & Arpe Company, New York, N. Y. Filet of anchovies, anchovy paste, bonita, etc. Serial No. 641,808, Dec. 1. Class 46.

Stuart Company, The, Pasadena, Calif. Vitamin preparation. Serial No. 645,015, Dec. 1. Class 18.

Superior Tube Company, Norristown, Pa. Metal tubing. Serial No. 645,842, Dec. 1. Class 13.

Supplee-Biddle-Steltz Company, Philadelphia, Pa. Children's vehicles and toy sets. Serial No. 623,434, Dec. 1. Class 22.

Swift & Company, assignee: *See*—
Plankinton Packing Co.

Swiveller Company, Inc., New York, N. Y. Electrical ceiling, wall, and floor lamps. Serial No. 623,922, Dec. 1. Class 21.

Tasco Motion Picture Productions, Inc., Atlanta, Ga. Producing motion pictures for others. Serial No. 636,818, Dec. 1. Class 107.

Tasty-Tempt Seafood Products Co.: *See*—
Le Blanc, Fernest J.

Texlite, Incorporated, Dallas, Tex. Electrically lighted and electrically activated signs. Serial No. 628,371, Dec. 1. Class 21.

Thompson, H. I., Company, The, Los Angeles, Calif. Vibration damping materials of batted fiber glass. Serial No. 636,182, Dec. 1. Class 12.

Titan Chain Saws, Inc., Seattle, Wash. Chain saws. Serial No. 648,063, Dec. 1. Class 23.

Trabert and Hoeffer, Inc., New York, N. Y. Costume jewelry. Serial No. 645,205, Dec. 1. Class 28.

Transistor Products, Inc., Boston, Mass. Transistors. Serial No. 639,400, Dec. 1. Class 21.

Treesweet Products Co., Santa Ana, Calif. Canned frozen citrus fruit concentrates. Serial No. 632,858, Dec. 1. Class 46.

Trucktor Corporation, The, Newark, N. J. Non-driving axles. Serial No. 605,274, Dec. 1. Class 19.

Ultra Chemical Works Inc., Paterson, N. J. Wetting agents, foaming agents; cationic finishes, etc. Serial No. 647,668, Dec. 1. Class 6.

Underwood Corporation, New York, N. Y. Typewriters and parts thereof. Serial No. 646,964, Dec. 1. Class 23.

Union Allumettiere Société Anonyme, Brussels, Belgium. Wood fibre hardboards. Serial No. 633,519, Dec. 1. Class 12.

United Merchants and Manufacturers, Inc., New York, N. Y. Finishing of textile fabrics. Serial No. 645,683, Dec. 1. Class 106.

United Merchants and Manufacturers, Inc., New York, N. Y. Finishing of fabrics. Serial No. 648,215, Dec. 1. Class 106.

United States Safety Service Co., Kansas City, Mo. Goggles. Serial No. 634,768, Dec. 1. Class 26.

Vaccarino, Joseph, doing business as Sole D'Italia Wholesale Grocery, Baltimore, Md. Canned foods. Serial No. 604,458, Dec. 1. Class 46.

Vacuum Concrete, Inc., Philadelphia, Pa. Consulting and supervisory services related to the forming and finishing of concrete bodies, etc. Serial No. 529,321, Dec. 1. Class 103.

Vanderbilt, R. T., Company, Inc., New York, N. Y. Water repellant finish to fabrics. Serial No. 640,657, Dec. 1. Class 6.

Vanderbilt, R. T., Company, Inc., New York, N. Y. Silicate material. Serial No. 643,129, Dec. 1. Class 6.

Viking Manufacturing Co., Inc., Stratford, Conn. Infrared heat lamps for therapeutic use. Serial No. 642,787, Dec. 1. Class 44.

Villetorte, Paule R., Setauket, N. Y. Ring projecting apparatus. Serial No. 634,717, Dec. 1. Class 22.

Virginia-Carolina Chemical Corporation, Richmond, Va. Water softener. Serial No. 645,938, Dec. 1. Class 6.

Vitene Manufacturing Company, Inc., New York, N. Y. Fluid which is a coolant and lubricant. Serial No. 645,274, Dec. 1. Class 15.

WJW, Inc., Cleveland, Ohio. Radio program broadcasting services. Serial No. 639,796, Dec. 1. Class 104.

Waite Carpet Company, Oshkosh, Wis. Textile rugs and carpets. Serial No. 641,816, Dec. 1. Class 42.
Wann, Richard H., Detroit, Mich. Rental television receiving sets. Serial No. 628,136, Dec. 1. Class 21.
Wardens and Commonalty of the Mystery of Goldsmiths of the City of London, The, London, England. Gold and silver wares. Serial No. 631,080, Dec. 1. Class 28.
Waverly Products, Inc., Kansas City, Mo. Electrical cooking apparatus. Serial No. 647,055, Dec. 1. Class 21.
Webb, Thomas J., Company, Chicago, Ill. Coffee. Serial No. 582,806, Dec. 1. Class 46.
Webb, Thomas J., Company, Chicago, Ill. Coffee and tea. Serial No. 582,807, Dec. 1. Class 46.
Weil & Huebener, Washington, D. C. Microscopes. Serial No. 645,276, Dec. 1. Class 26.
Wes-Win Mfg. Co., Inc., El Monte, Calif. Electrical fittings. Serial No. 648,151, Dec. 1. Class 21.
Weston Biscuit Company, Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Cakes, cookies, and crackers. Serial No. 635,502, Dec. 1. Class 46.
Williams-Hayward Varnish Company, Summit, Ill. Ready mixed varnishes, paints, and enamels. Serial No. 648,456, Dec. 1. Class 16.
Wood, G. H., and Company, Limited, Etobicoke and Toronto, Ontario, Canada. Finish and rinse for textile fibres. Serial No. 645,686, Dec. 1. Class 6.
Woodall Industries Incorporated, Detroit, Mich. Thermosetting resin compound. Serial No. 639,401, Dec. 1. Class 6.
Wright, M. A., Co., The, Brooklyn, N. Y. Tablets for alleviating distress of travel sickness. Serial No. 648,457, Dec. 1. Class 18.
Zenith Radio Corporation, Chicago, Ill. Electrically operated talking machines. Serial No. 648,225, Dec. 1. Class 21.

LIST OF REGISTRANTS OF TRADE-MARKS

Accident Control Associates: *See*—
Benshoof, Robert E.
Adjustable Steel Post Corp.: *See*—
Gets-A-Lite Company.
Advance Aluminum Castings Corp., Chicago, Ill. Cooking utensils. 583,126, Dec. 1; Serial No. 633,990, published Aug. 25, 1953. Class 13.
Agfa Ansco Corporation, Binghamton, to General Aniline & Film Corporation, New York, N. Y. Solution for treating photographic prints. 306,180, renewed Sept. 12, 1953. O. G. Dec. 1. Class 6.
Alwin Brush and Supply Company, Milwaukee, Wis. Fountain mops. 583,235, Dec. 1; Serial No. 628,381. Class 29.
American Hospital Association, Chicago, Ill. Quarterly magazine. 583,096, Dec. 1; Serial No. 632,064, published Aug. 25, 1953. Class 38.
Amida S. A., Grenchen, Switzerland. Watches and parts of watches. 583,207, Dec. 1; Serial No. 644,710, published July 28, 1953. Class 27.
Andrews, O. B., Company, Chattanooga, Tenn. Paperboard shipping cases. 583,124, Dec. 1; Serial No. 635,671, published Sept. 1, 1953. Class 2.
Antell, Charles, Inc., Baltimore, Md. Soap. 583,105, Dec. 1; Serial No. 633,705, published Sept. 8, 1953. Class 52.
Archdale Manufacturing Company, Inc., High Point, N. C. Ladies' slips and half slips. 583,088, Dec. 1; Serial No. 630,053, published Aug. 4, 1953. Class 39.
Arden, Elizabeth, Inc., to Elizabeth Arden Sales Corporation, New York, N. Y. Cosmetic cream. 309,323, renewed Jan. 9, 1954. O. G. Dec. 1. Class 51.
Arden, Elizabeth, Sales Corporation: *See*—
Arden, Elizabeth, Inc.
Armour and Company, Chicago, Ill. Soap especially formulated for wire-drawing. 583,142, Dec. 1; Serial No. 637,972, published Aug. 4, 1953. Class 15.
Atalanta Trading Corporation, New York, N. Y. Canned ham. 583,118, Dec. 1; Serial No. 635,388, published July 14, 1953. Class 46.
Atalanta Trading Corporation, New York, N. Y. Canned ham. 583,119, Dec. 1; Serial No. 635,390, published July 14, 1953. Class 46.
Atalanta Trading Corporation, New York, N. Y. Canned ham. 583,120, Dec. 1; Serial No. 635,393, published June 2, 1953. Class 46.
Atalanta Trading Corporation, New York, N. Y. Canned ham. 583,121–2, Dec. 1; Serial Nos. 635,394–5, published July 14, 1953. Class 46.
Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Ingredients comprising a silica aggregate and a sodium silicate solution and used for making a silicate cement. 583,089, Dec. 1; Serial No. 630,112, published Aug. 11, 1953. Class 12.
Aycock, Thomas J., Jr., doing business under the name and style of Vita Foods, Jacksonville, Fla. Mayonnaise, fruit preserves and jelly. 583,034, Dec. 1; Serial No. 591,448, published June 9, 1953. Class 46.
Bachmann Uxbridge Worsted Corporation, Uxbridge, Mass. Men's and women's suits and overcoats, women's dresses. 583,163, Dec. 1; Serial No. 640,778, published Aug. 11, 1953. Class 39.
Bally Manufacturing Company, Chicago, Ill. Coin-controlled amusement device. 583,155, Dec. 1; Serial No. 640,063, published July 7, 1953. Class 22.
Barber, W. H., Company, Minneapolis, Minn. Petroleum products. 583,249, Dec. 1; Serial No. 645,768. Class 6.
Barbet Mills, Inc., Gastonia, N. C. Fabrics. 583,130, Dec. 1; Serial No. 636,551, published Sept. 1, 1953. Class 42.
Barkin, Levin & Co. Inc., New York, N. Y. Ladies' and misses' coats. 583,127–8, Dec. 1; Serial Nos. 636,195–6, published Aug. 25, 1953. Class 39.
Barr, Hymen H., Los Angeles, to H. H. Barsky, Palm Springs, Calif. Organic mineral food or food supplement. 306,319, renewed Sept. 12, 1953. O. G. Dec. 1. Class 46.
Barry, R. G., Corporation, Columbus, Ohio. Platform slippers. 583,073, Dec. 1; Serial No. 626,775, published Aug. 25, 1953. Class 39.
Barsky, H. H.: *See*—
Barr, Hymen H.
Bartmann & Bixer, Inc., New York, N. Y. Window curtains. 583,217, Dec. 1; Serial No. 645,769, published Sept. 8, 1953. Class 42.
Basila Mfg. Co., Inc., Mobile, Ala. Women's and misses' dresses and housecoats. 583,188, Dec. 1; Serial No. 642,797, published Sept. 1, 1953. Class 39.
Bates, R. W., Piece Dye Works, Inc., Garnerville, N. Y. Treating rayon and acetate suiting fabrics. 583,226, Dec. 1; Serial No. 642,339, published Sept. 1, 1953. Class 106.
Baum, Ellen N., by Noreen, Inc., Denver, Colo. Hair tinting rinses. 359,820, Aug. 30, 1938. Republished Dec. 1. Class 51.
Bavarian Brewing Company, Inc., Covington, Ky. Beer. 583,028, Dec. 1; Serial No. 519,719, published Sept. 1, 1953. Class 48.
Bechstein, C., Pianofortefabrik Aktiengesellschaft, Berlin, Germany. Pianos and grand pianos. 583,233, Dec. 1; Serial No. 624,810. Class 36.
Bedford Shirt Corp., New York, N. Y. Men's and boys' dress and sport shirts. 583,065, Dec. 1; Serial No. 622,137, published Aug. 4, 1953. Class 39.
Behr-Manning Corporation, Troy, N. Y. Flexible and inflexible abrasives. 583,109, Dec. 1; Serial No. 634,134, published Sept. 8, 1953. Class 4.
Benham Manufacturing Corporation, Brooklyn, N. Y. Broilers. 583,228, Dec. 1; Serial No. 587,175. Class 13.
Benshoof, Robert E., doing business as Accident Control Associates, Burbank, Calif. Consulting engineering services rendered in the field of accident prevention. 583,223, Dec. 1; Serial No. 628,139, published Sept. 1, 1953. Class 100.
Blancard & Company, Inc., New York, N. Y. Finger rings. 583,194, Dec. 1; Serial No. 643,205, published July 28, 1953. Class 28.
Bohemian Distributing Co. Ltd., by Bohemian Distributing Company, Los Angles, Calif. Gin. 321,912, Feb. 19, 1935. Republished Dec. 1. Class 49.
Bohemian Distributing Company: *See*—
Bohemian Distributing Co. Ltd.
Bonafide Mills, Inc., Winthrop, Maine, and New York, N. Y. Felt base, linoleum, composition, and plastic floor coverings and rugs. 583,160, Dec. 1; Serial No. 640,430, published Aug. 25, 1953. Class 20.
Bonat, Samuel, & Bros., New York, N. Y., to Samuel Bonat & Bro. Inc., Paterson, N. J. Face powder, lipstick, rouge, etc. 299,633, renewed Dec. 13, 1952. O. G. Dec. 1. Class 51.
Bonat, Samuel, & Bro. Inc.: *See*—
Bonat, Samuel, & Bros.
Bonney Forge & Tool Works: *See*—
Bonney Vise & Tool Works, Inc.
Bonney Vise & Tool Works, Inc., Philadelphia, by Bonney Forge & Tool Works, Allentown, Pa. Wrenches and vises. 68,202, Mar. 17, 1908. Republished Dec. 1. Class 23.
Brecht Candy Company, Denver, Colo. Chocolate pecans and caramel candy. 583,098, Dec. 1; Serial No. 632,463, published June 23, 1953. Class 46.
Burcham, Gouley N., doing business as Inspectors Sea Food Co., Los Angeles, Calif. Canned clam chowder and canned clams. 583,203, Dec. 1; Serial No. 644,387, published July 14, 1953. Class 46.
Burlington Mills Corporation, Greensboro, N. C. Fabrics. 583,213, Dec. 1; Serial No. 645,534, published Sept. 8, 1953. Class 42.
Burns, William E.: *See*—
Cleo Beauty Products Company.
Cameron, Jack, doing business as De-Stroy Laboratories, Terre Haute, Ind. Rat and mice poison bait. 583,242, Dec. 1; Serial No. 632,415. Class 6.

Canonne, Henry, Paris, France, to Pastival, Inc., New York, N. Y. Pastils for the treatment of maladies of the respiratory organs. 41,487, re-renewed Nov. 17, 1953. O. G. Dec. 1. Class 18.
Capital Bakers, Inc., Harrisburg, Pa. Bread. 583,229, Dec. 1; Serial No. 599,225. Class 46.
Chesterton, A. W., Company, doing business under the name Chesterton Mechanical Packings, Everett, Mass. Liquid belt dressing. 583,243, Dec. 1; Serial No. 635,520. Class 6.
Chesterton Mechanical Packings: *See*—
Chesterton, A. W., Company.
Chicago Dietetic Supply House, Inc., The, Chicago, Ill. Sugarless candy substitute. 583,211, Dec. 1; Serial No. 645,111, published Aug. 25, 1953. Class 46.
Chicago Molded Products Corporation, Chicago, Ill. Custom molding of articles from moldable plastic material. 583,224, Dec. 1; Serial No. 633,696, published Sept. 1, 1953. Class 106.
Chicago Specialty Manufacturing Co., Chicago, Ill. Water closet tank ball valve and valve seating guide. 583,141, Dec. 1; Serial No. 637,913, published Aug. 25, 1953. Class 13.
Chism Ice Cream Co.: *See*—
Chism Ice Cream Co., Inc.
Chism Ice Cream Co., Inc., doing business as Chism Ice Cream Co., Reno, Nev. Ice cream and sherbet. 583,168, Dec. 1; Serial No. 641,125, published July 28, 1953. Class 46.
City Stores Company, assignee: *See*—
Lansburgh & Bro.
Clemente Jacques y Cia, S. A., Mexico City, Mexico. Canned chiles, pickles, and canned fruits. 583,146, Dec. 1; Serial No. 638,193, published July 28, 1953. Class 46.
Cleo Beauty Products Company, Boston, Mass., assignee of J. A. Swenson, W. E. Burns, and R. Stead. Non-electrical hair curlers. 583,049, Dec. 1; Serial No. 615,804, published Sept. 1, 1953. Class 40.
Cleveland Chain & Mfg. Co., The, Cleveland, Ohio. Tire chains. 583,198, Dec. 1; Serial No. 643,755, published Sept. 1, 1953. Class 13.
Coast 2 Coast Oil Company, Cleveland, Ohio, to The Pennzoil Company, Oil City, Pa. Lubricating oils. 307,210, renewed Oct. 17, 1953. O. G. Dec. 1. Class 15.
Cochran, Jacqueline, Inc., New York, N. Y. Lip pomade. 583,237, Dec. 1; Serial No. 629,841. Class 18.
Cohen, Friedlander & Martin Co., The, Toledo, Ohio, by Rothmoor Corporation, Chicago, Ill. Ladies' suits and coats. 166,598, Apr. 10, 1923. Republished Dec. 1. Class 39.
Comer Produce Company, Phoenix, Ariz. Fresh vegetables and melons. 583,192, Dec. 1; Serial No. 642,948, published July 28, 1953. Class 46.
Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme, Liege, Belgium. Foundation piles and sheet piles molded in the ground, piles, sheet piles and construction elements prepared in advance, etc. 306,046, renewed Sept. 5, 1953. O. G. Dec. 1. Class 12.
Compania Mata Union de Bodegas Andaluzas S. A., Malaga, Spain. Wines. 305,196, renewed Aug. 8, 1953. O. G. Dec. 1. Class 47.
Comptoir de l'Industrie Cotonniere, Etablissements Boussac Société à Responsabilité Limitée, Paris France. Textile fabrics. 583,137, Dec. 1; Serial No. 637,817, published Sept. 1, 1953. Class 42.
Consolidated Chemical Industries Inc.: *See*—
Texas Chemical Company.
Consolidated Citrus Growers, Mesa, Ariz. Fresh citrus fruits. 583,117, Dec. 1; Serial No. 635,287, published June 2, 1953. Class 46.
Corbett, R. H., & Co. Limited, Burgess Hill, England. Apparatus or machines operated hydraulically or by other power for lifting heavy objects. 583,053, Dec. 1; Serial No. 617,108, published June 30, 1953. Class 23.
Crown Zellerbach Corporation, also doing business as National Paper Products Co. and Nata Products Company, San Francisco, Calif. Paper napkins, paper towels and toilet tissue. 583,029, Dec. 1; Serial No. 542,012, published Apr. 22, 1952. Class 37.
Cyma Watch Co., Inc., New York, N. Y. Watches and clocks. 583,205, Dec. 1; Serial No. 644,544, published July 28, 1953. Class 27.
Dan River Mills, Incorporated, Danville, Va. Textile fabrics. 583,212, Dec. 1; Serial No. 645,359, published Sept. 8, 1953. Class 42.
Davis & Geck, Inc., Brooklyn, N. Y. Orthopedic composition. 583,100, Dec. 1; Serial No. 632,774, published Aug. 25, 1953. Class 44.
Dealers' Digest Publishing Company, Inc., The, New York, N. Y. Magazines. 583,148, Dec. 1; Serial No. 638,571, published Aug. 25, 1953. Class 38.
Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 583,220, Dec. 1; Serial No. 646,114, published Sept. 8, 1953. Class 42.
De Hymel, Leo B., Pasadena, Calif. Cookies. 583,103, Dec. 1; Serial No. 633,491, published July 7, 1953. Class 46.
De Jong Inc., Long Island City, N. Y. Window curtains, cafe curtains, and Dutch curtains. 583,219, Dec. 1; Serial No. 646,055, published Sept. 8, 1953. Class 42.
Denison Engineering Company, The, Columbus, Ohio. Valves. 583,059, Dec. 1; Serial No. 620,839, published Aug. 25, 1953. Class 13.
De Soto Paint & Varnish Co., Memphis, Tenn. Paint products. 583,037, Dec. 1; Serial No. 605,644, published Sept. 1, 1953. Class 16.
De-Stroy Laboratories: *See*—
Cameron, Jack.
De Witt, E. C., & Co. Inc.: *See*—
Pineule Medicine Co.
Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 308,511, Dec. 5, 1933. Republished Dec. 1. Class 23.
Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 308,513, Dec. 5, 1933. Republished Dec. 1. Class 23.
Dixie-Portland Flour Mills: *See*—
Stout, Charles B.
Dollfus-Mieg & Cie, Societe Anonyme, Mulhausen, Germany, to Dollfus-Mieg & Cie, Societe Anonyme, Mulhouse (Haut Rhin), France. Yarns, threads, cords, etc. 94,720, re-renewed Dec. 30, 1953. O. G. Dec. 1. Class 43.
Dorin, Inc.: *See*—
Monin, Maurice.
Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. 583,112, Dec. 1; Serial No. 634,394, published Aug. 25, 1953. Class 32.
Dunbar-Dukate Company, Inc., New Orleans, La., by McPhillips Packing Corporation, Bayou La Batre, Ala. Canned shrimp, canned raviolis, and canned oysters. 241,350, Apr. 24, 1928. Republished Dec. 1. Class 46.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Lacquer primer-sealer. 583,165, Dec. 1; Serial No. 641,027, published Sept. 1, 1953. Class 16.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Amorphous silica. 583,193, Dec. 1; Serial No. 643,089, published Aug. 25, 1953. Class 1.
Durham-Enders Razor Corporation: *See*—
Enders Razor Company, Inc.
Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 583,174, Dec. 1; Serial No. 642,207, published Aug. 25, 1953. Class 1.
Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Moulding compounds comprising synthetic rubber-like materials. 583,157, Dec. 1; Serial No. 640,112, published Sept. 1, 1953. Class 1.
Economics Laboratory, Inc., St. Paul, Minn. Cleaning compound. 583,227, Dec. 1; Serial No. 538,382. Class 52.
Electroweld Mfg. Co., Inc., Chicago, Ill. Metal wall and floor cabinets. 583,090, Dec. 1; Serial No. 630,590, published Aug. 25, 1953. Class 32.
Elimore Silver Co., Inc., The, Meriden, Conn. Sterling silver hollowware. 583,200, Dec. 1; Serial No. 644,021, published July 28, 1953. Class 28.
Empire Bottling Works, Newark, N. J. Bluing, ammonia, and Javelle water. 307,083, renewed Oct. 17, 1953. O. G. Dec. 1. Class 6.
Enders Razor Company, Inc., New York, N. Y., to Durham-Enders Razor Corporation, Mystic, Conn. Razors and razor blades. 308,593, renewed Dec. 12, 1953. O. G. Dec. 1. Class 23.
Essex Wire Corporation, Detroit, Mich. Electric wire harnesses. 583,152, Dec. 1; Serial No. 639,323, published June 30, 1953. Class 21.
Euclid Road Machinery Co., The, Euclid, Ohio. Service, maintenance, and repair of internal combustion engines, etc. 583,222, Dec. 1; Serial No. 624,402, published Sept. 1, 1953. Class 103.
Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Bimetallic articles, namely, internal-combustion engines, etc. 583,172, Dec. 1; Serial No. 641,546, published July 14, 1953. Class 23.
Farmland Irrigation Company, Inc., Fresno, Calif. Equipment for portable irrigation systems. 583,236, Dec. 1; Serial No. 628,814. Class 13.
Farrington Manufacturing Company, Jamaica Plain, Mass. Jewel cases. 583,180–1, Dec. 1; Serial Nos. 642,397–8, published Sept. 1, 1953. Class 2.
Farrington Manufacturing Company, Jamaica Plain, Mass. Jewel cases. 583,182–3, Dec. 1; Serial Nos. 642,402–3, published Sept. 1, 1953. Class 2.
Fendrich, H., Incorporated: *See*—
Paxton and Gallagher Co.
Fine Products Corporation, Augusta, Ga. Candy. 583,136, Dec. 1; Serial No. 637,768, published June 9, 1953. Class 46.
Firestone Tire & Rubber Company, The, Akron, Ohio. Tire covers; brake lining; gaskets; etc. 306,334, renewed Sept. 12, 1953. O. G. Dec. 1. Class 35.
Flautt, John, Shoe Company Inc., Lynn, Mass. Men and Women's shoes, sandals, and slippers. 583,150, Dec. 1; Serial No. 639,030, published Aug. 4, 1953. Class 39.
Fleck Cigar Co., Ltd., to Yocum Bros., Inc., Reading, Pa. Cigars. 95,087–8, re-renewed Feb. 3, 1954. O. G. Dec. 1. Class 17.
Flomar Products Company, Milwaukee, Wis. Bath crystals, bath oil, and personal deodorant. 583,076, Dec. 1; Serial No. 627,936, published Aug. 4, 1953. Class 51.
Floral Art Studios: *See*—
Ramont, Raymond E.
Forsyth, Peter, & Company: *See*—
Latimer, Philip F.
Forsyth, Peter, & Company (Distillers) Limited: *See*—
Latimer, Philip F.

Foster Metal Products Incorporated, Attleboro, Mass. Jewelry. 583,151, Dec. 1; Serial No. 639,031, published July 28, 1953. Class 28.

Fountain, Ed, Lumber Co., Los Angeles, Calif. Glued laminated lumber. 583,131, Dec. 1; Serial No. 636,974, published Aug. 11, 1953. Class 12.

Freyn Engineering Company, Chicago, Ill., to Koppers Company, Inc., Pittsburgh, Pa. Blast furnace charging controls for sequencing and coordinating charging apparatus for blast furnaces, etc. 308,020, renewed Nov. 14, 1953. O. G. Dec. 1. Class 26.

Gabriel Sedlmayr, Spaten-Franziskaner-Bräu A. G. München, Munich, Germany. Beer. 583,140, Dec. 1; Serial No. 637,846, published Sept. 1, 1953. Class 48.

Garnett, G., & Sons, Limited, Apperley Bridge, near Bradford, to G. Garnett & Sons, Limited, Bradford, England. Woolen and worsted piece goods. 305,806, renewed Aug. 22, 1953. O. G. Dec. 1. Class 42.

Gehlar, Mark G., doing business as Oregon Fruit Products Co., Salem, Oreg. Canned fruits and canned berries. 583,116, Dec. 1; Serial No. 635,031, published June 23, 1953. Class 46.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 583,201, Dec. 1; Serial No. 644,169, published July 28, 1953. Class 28.

General Aniline & Film Corporation: *See*—
Agfa Ansco Corporation.

General Mills, Inc., Minneapolis, Minn. Flour, particularly pastry flour. 306,257, renewed Sept. 12, 1953. O. G. Dec. 1. Class 46.

Gets-A-Lite Company, Chicago, Ill., assignee of Adjustable Steel Post Corp., doing business under the name Gets-A-Lite Company. Device consisting of a pole on the end of which is a clamp and/or a suction cup used to replace electric light bulbs and fluorescent tubes in out of reach places. 583,234, Dec. 1; Serial No. 626,070. Class 23.

Gibson-Thomsen Co., Inc., New York, N. Y. Hair brushes, nail brushes, and tooth brushes. 583,166, Dec. 1; Serial No. 641,041, published Sept. 1, 1953. Class 29.

Glanzstoff-Courtaulds G. m. b. H., Koln-Merheim, Germany. Yarns. 583,125, Dec. 1; Serial No. 635,962, published Aug. 18, 1953. Class 43.

Goidl Neckwear Mfg. Co.: *See*—
Goidl, Saul.

Goidl, Saul, doing business as Goidl Neckwear Mfg. Co., Dallas, Tex. Cravats, four-in-hand ties, bow ties, etc. 309,595, renewed Jan. 23, 1954. O. G. Dec. 1. Class 39.

Golden Dawn Foods: *See*—
Rosenblum, Nathan, & Co.

Golden Dawn Foods Wholesale Grocery Company, assignee: *See*—
Rosenblum, Nathan, & Co.

Goodman, Mal M., doing business as Malco Company, Los Angeles, Calif. Pans. 583,078, Dec. 1; Serial No. 628,105, published Aug. 25, 1953. Class 13.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Rubber-soled canvas shoes. 583,097, Dec. 1; Serial No. 632,083, published Aug. 11, 1953. Class 39.

Gottfried Company, The, Cleveland, Ohio. Dresses. 583,195, Dec. 1; Serial No. 643,418, published Sept. 1, 1953. Class 39.

Green, M. D., Rice Milling Co.: *See*—
Green, Monroe D.

Green, Monroe D., trading as M. D. Green Rice Milling Co., San Francisco, Calif. Rice. 583,040, Dec. 1; Serial No. 607,546, published July 28, 1953. Class 46.

Growers Supply Co.: *See*—
Smith-Douglass Company, Inc.

Gum Tragasol Supply Company Limited, The, Hooton, England. Mucilaginous products of vegetable origin for sizing, dressing and finishing fabrics and materials. 92,070, June 17, 1913. Corrected. O. G. Dec. 1. Class 1.

Gum Tragasol Supply Company Limited, The, Hooton, England. Leather dressings and polishes. 92,071, June 17, 1913. Corrected. O. G. Dec. 1. Class 4.

Hampden Watch Company, Chicago, Ill. Watches. 583,214, Dec. 1; Serial No. 645,647, published July 28, 1953. Class 27.

Heckethorn Manufacturing & Supply Co., Littleton, Colo. Automatic work feeding and ejecting devices. 412,535, Mar. 13, 1945. Republished Dec. 1. Class 23.

Heckethorn Manufacturing & Supply Co., Littleton, Colo. Motor driven machines. 413,785, May 15, 1945. Republished Dec. 1. Class 23.

Heckethorn Manufacturing & Supply Co., Littleton, Colo. Gauging machines. 414,184, May 29, 1945. Republished Dec. 1. Class 26.

Heileman, G., Brewing Co., La Crosse, Wis. Beer. 63,492, June 25, 1907. Corrected. O. G. Dec. 1. Class 48.

Hi-Life Packing Company, Chicago, Ill. Canned dog food and canned cat food. 583,202, Dec. 1; Serial No. 644,303, published July 14, 1953. Class 46.

Holland-Hessol Co., Inc., New York, N. Y. Women's undergarments. 583,197, Dec. 1; Serial No. 643,587, published Sept. 1, 1953. Class 39.

Hornung, Jacob, Brewing Co., Philadelphia, Pa. Beer. 583,062, Dec. 1; Serial No. 621,207, published Sept. 1, 1953. Class 48.

Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. 308,473, Dec. 5, 1933. Republished Dec. 1. Class 35.

House of Swansdown, Inc., The, New York, N. Y. Ladies' and misses coats, suits, jackets, and skirts. 583,170, Dec. 1; Serial No. 641,301, published Aug. 4, 1953. Class 39.

Howard Bros. Chemical Co., Buffalo, N. Y. Eye-water. 93,599, re-renewed Sept. 30, 1953. O. G. Dec. 1. Class 18.

Huggenberger, Dr. Arnold, doing business as Physik Instrumente Huggenberger, Zurich, Switzerland. Machines, apparatus, and devices for testing all kinds of structures and materials, etc. 304,710, renewed July 18, 1953. O. G. Dec. 1. Class 26.

Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Algin. 583,132–3, Dec. 1; Serial Nos. 637,590–1, published Sept. 8, 1953. Class 6.

Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Lanolin, beeswax, candelilla wax, etc. 583,134–5, Dec. 1; Serial Nos. 637,592–3, published Sept. 8, 1953. Class 6.

Inspectors Sea Food Co.: *See*—
Burcham, Gouley N.

International Latex Corporation, Dover, Del. Girdles. 583,208, Dec. 1; Serial No. 644,755, published Sept. 1, 1953. Class 39.

International Minerals & Chemical Corporation: *See*—
Innis, Speiden & Co., Inc.

Iowa Soap Company, Burlington, Iowa, to Manhattan Soap Company, Inc., New York, N. Y. Toilet soap. 308,577, renewed Dec. 12, 1953. O. G. Dec. 1. Class 52.

J-A Corporation, Chicago, Ill. Imitation lemon juice base for use in cooking and baking. 583,230, Dec. 1; Serial No. 621,559. Class 46.

J F D Manufacturing Co., Inc., Brooklyn, N. Y. Television antenna. 583,232, Dec. 1; Serial No. 623,894. Class 21.

Kabo, Inc., Chicago, Ill. Foundation garments. 583,209, Dec. 1; Serial No. 644,762, published Sept. 1, 1953. Class 39.

Kahn's, E., Sons Company, The, Cincinnati, Ohio. Sausage. 583,039, Dec. 1; Serial No. 607,172, published July 28, 1953. Class 46.

Kahn's, E., Sons Company, The, Cincinnati, Ohio. Bacon and ham. 583,048, Dec. 1; Serial No. 615,647, published June 2, 1953. Class 46.

Kiser, William J., doing business as Vulcancraft Fabricating Company, Birmingham, Ala. Articles of iron, steel, or other metals, ornamental railings, window grilles, etc. 583,069, Dec. 1; Serial No. 624,276, published Aug. 11, 1953. Class 12.

Kiwi Polish Company Proprietary Limited, The, Richmond, near Melbourne, Australia. Polishing preparations. 583,104, Dec. 1; Serial No. 633,542, published Aug. 25, 1953. Class 4.

Kleiss, Herman H., Chicago, Ill. Shopping bags. 583,114, Dec. 1; Serial No. 634,789, published Sept. 1, 1953. Class 2.

Koh-I-Noor, Spojene Kovoprumyslove Zavody, narodni podnik, also named Koh-I-Noor, United Metalware Factories, National Corporation, Prague, Czechoslovakia. Closures and fasteners for wearing apparel, shoe rings, etc. 583,043, Dec. 1; Serial No. 610,564, published Aug. 18, 1953. Class 40.

Koh-I-Noor, United Metalware Factories, National Corporation: *See*—
Koh-I-Noor, Spojene Kovoprumyslove Zavody, narodni podnik.

Koppers Company, Inc.: *See*—
Freyn Engineering Company.

Kreisler, Jacques, Manufacturing Corporation, North Bergen, N. J. Wrist watch bands. 583,047, Dec. 1; Serial No. 615,391, published July 28, 1953. Class 28.

Kress, S. H., and Company, New York, N. Y. Cotton piece goods. 583,218, Dec. 1; Serial No. 646,034, published Sept. 8, 1953. Class 42.

Kurashiki Rayon Company Limited, Kurashiki, Japan. Synthetic yarns and filaments. 583,099, Dec. 1; Serial No. 632,652, published Aug. 18, 1953. Class 43.

Lachman, Charles, Co., Inc., Phoenixville, Pa. Linings and cushions for rugs and carpets. 583,042, Dec. 1; Serial No. 609,485, published June 9, 1953. Class 50.

Lansburgh & Bro., Washington, D. C., assignor to City Stores Company. Women's, misses', and children's coats, suits, dresses, etc. 583,171, Dec. 1; Serial No. 641,310, published Aug. 25, 1953. Class 39.

Laszlo, Erno, Company, The, New York, N. Y. Beauty preparations. 583,079, Dec. 1; Serial No. 628,490, published Aug. 4, 1953. Class 51.

Laszlo, Erno, Company, The, New York, N. Y. Beauty preparation. 583,080–1, Dec. 1; Serial Nos. 628,492–3, published Aug. 4, 1953. Class 51.

Laszlo, Erno, Company, The, New York, N. Y. Beauty preparations. 583,082, Dec. 1; Serial No. 628,499, published Aug. 4, 1953. Class 51.

Latimer, Philip F., doing business as Peter Forsyth & Company, to Peter Forsyth & Company (Distillers) Limited, Glasgow, Scotland. Whisky. 308,783, renewed Dec. 19, 1953. O. G. Dec. 1. Class 49.

Laudahl, Mark, Dallas, Oreg. Trailer couplings and brake-actuating trailer couplings. 583,246, Dec. 1; Serial No. 639,477. Class 19.

Lazy Susan Products, Venice, Fla. Protective and preservative sealer and finisher coating preparation. 583,063, Dec. 1; Serial No. 621,321, published Sept. 1, 1953. Class 16.

Leonard, Paul T., doing business as Leonard's Hatchery & Breeding Farm, Osage, Iowa. Live poultry. 583,176, Dec. 1; Serial No. 642,289, published Aug. 25, 1953. Class 1.

Leonard's Hatchery & Breeding Farm: *See*—
Leonard, Paul T.

Les Parfums de Dana, Inc., New York, N. Y. Perfume and cologne. 583,110, Dec. 1; Serial No. 634,146, published Aug. 11, 1953. Class 51.

Les Parfums de Dana, Inc., New York, N. Y. Perfume and cologne. 583,111, Dec. 1; Serial No. 634,147, published Aug. 4, 1953. Class 51.

Little America Frozen Foods, Inc., Pittsburgh, Pa. Frozen vegetables. 583,064, Dec. 1; Serial No. 621,474, published July 28, 1953. Class 46.

Little, Harold E., Roanoke, Va. Compounded synthetic detergent. 583,060, Dec. 1; Serial No. 620,895, published Aug. 25, 1953. Class 52.

London Character Shoes Corporation, New York, N. Y. Shoes. 583,190, Dec. 1; Serial No. 642,889, published Aug. 11, 1953. Class 39.

London, J., & Co., Philadelphia, Pa. Window curtains and draperies. 583,055, Dec. 1; Serial No. 619,206, published Sept. 8, 1953. Class 42.

Loring, Murray, doing business trading as Dr. Loring's Products Company, Williamsburg, Va. Strained lamb puppy food, strained liver puppy food, strained beef puppy food. 583,238, Dec. 1; Serial No. 631,165. Class 46.

Loring's Dr., Products Company: *See*—
Loring, Murray.

Lyons-Magnus, Inc., San Francisco, Calif. Root beer syrup for making carbontaed beverages, etc. 583,038, Dec. 1; Serial No. 607,086, published Aug. 18, 1953. Class 45.

MacDonald, D. K., & Company, Inc., Seattle, Wash. General insurance brokerage services. 583,225, Dec. 1; Serial No. 634,477, published July 14, 1953. Class 102.

Malco Company: *See*—
Goodman, Mal M.

Malouf Company, Dallas, Tex. Women's maternity dresses. 583,162, Dec. 1; Serial No. 640,573, published Sept. 1, 1953. Class 39.

Manhattan Soap Company, Inc.: *See*—
Iowa Soap Company.

Mann Company of Washington, The, Washington, D. C., now by merger Mann Potato Chip Company of Pennsylvania. Potato chips. 583,032, Dec. 1; Serial No. 573,885, published Feb. 20, 1951. Class 46.

Mann Potato Chip Company of Pennsylvania: *See*—
Mann Company of Washington, The.

Marshall Mill & Elevator Company, Marshall, Tex. Feed and dog food. 583,143, Dec. 1; Serial No. 638,005, published June 9, 1953. Class 46.

McDaniel & Sons, Yuma, to McDaniel & Sons, Inc., Somerton, Ariz. Fresh cantaloupes, fresh vegetables. 306,910, renewed Oct. 3, 1953. O. G. Dec. 1. Class 46.

McDaniel & Sons, Inc.: *See*—
McDaniel & Sons.

McPhillips Packing Corporation: *See*—
Dunbar-Dukate Company, Inc.

Medical Drug Corporation, New York, N. Y. Pharmaceutical products. 583,245, Dec. 1; Serial No. 639,280. Class 18.

Michigan Bean Company, Saginaw, Mich. Lentils, dried peas and dried beans. 583,051, Dec. 1; Serial No. 617,047, published July 28, 1953. Class 46.

Miller, Anne F. and Stewart, Miami, Fla. Publications of cartoons. 583,041, Dec. 1; Serial No. 608,616, published Aug. 25, 1953. Class 38.

Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Rubber soles and for footwear. 583,031, Dec. 1; Serial No. 563,207, published Aug. 25, 1953. Class 39.

Mittineague Paper Company, by Strathmore Paper Company, West Springfield, Mass. Writing, drawing, and book paper, paper for covers of pamphlets, etc. 57,916, Dec. 4, 1906. Republished Dec. 1. Class 37.

Mittineague Paper Company, by Strathmore Paper Company, West Springfield, Mass. Writing paper, book paper, and paper to be used for covers of pamphlets, etc. 65,496, Oct. 8, 1907. Republished Dec. 1. Class 37.

Modern Hanger Corporation, The, Cleveland, Ohio. Pipe hanger assemblies, fittings, concrete inserts, etc. 583,159, Dec. 1; Serial No. 640,296, published Aug. 25, 1953. Class 13.

Monin, Maurice, Paris, France, to Dorin, Inc., New York, N. Y. Rouge, face, and toilet powders. 95,551, renewed Feb. 24, 1954. O. G. Dec. 1. Class 51.

Moore, Benjamin, & Co., New York, N. Y. Ready mixed paints. 583,091, Dec. 1; Serial No. 631,017, published Sept. 1, 1953. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Enamels. 583,092, Dec. 1; Serial No. 631,365, published Sept. 1, 1953. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Paint oil. 583,153, Dec. 1; Serial No. 639,586, published Sept. 1, 1953. Class 16.

Mother's Food Products, Inc., Newark, N. J. Sweet peppers, cucumber salad. 583,086, Dec. 1; Serial No. 629,810, published Aug. 25, 1953. Class 46.

Mousalli, Alexis, Paris (Seine), France. Ampules, tablets and drops for oral use in the treatment of heart disease, etc. 583,056, Dec. 1; Serial No. 619,208, published July 28, 1953. Class 18.

Munson Masterpieces, Inc., Babylon, N. Y. Greeting cards. 583,185, Dec. 1; Serial No. 642,765, published Aug. 25, 1953. Class 38.

Mutual Products Co., Minneapolis, Minn. Concentrated food compound. 583,095, Dec. 1; Serial No. 631,994, published June 2, 1953. Class 46.

Nachod & United States Signal Co., Inc., Louisville, Ky. Electric block signal light systems for railways, electric light signal systems for street traffic, etc. 300,920, renewed Feb. 14, 1953. O. G. Dec. 1. Class 21.

Napasco Chemical Co.: *See*—
National Paper & Specialty Co., Inc.

Nata Products Company: *See*—
Crown Zellerbach Corporation.

National Paper Products Co.: *See*—
Crown Zellerbach Corporation.

National Paper & Specialty Co., Inc., doing business as Napasco Chemical Co., Thibodaux, La. Pine oil disinfectant, isopropyl alcohol compound, and mint oil disinfectant. 583,169, Dec. 1; Serial No. 641,201, published Sept. 8, 1953. Class 6.

National Tinsel Manufacturing Company, Manitowoc, Wis. Textile ribbons. 583,167, Dec. 1; Serial No. 641,078, published Aug. 4, 1953. Class 42.

National Tricot Company, Hawthorne, N. J. Piece goods. 583,215, Dec. 1; Serial No. 645,657, published Sept. 8, 1953. Class 42.

Nopco Chemical Company, Harrison, N. J. Calcium pantothenate containing products. 583,067, Dec. 1; Serial No. 623,672, published July 28, 1953. Class 18.

Nordberg Manufacturing Company, Milwaukee, Wis. Internal combustion engines. 583,094, Dec. 1; Serial No. 631,757, published June 30, 1953. Class 23.

Noreen, Inc.: *See*—
Baum, Ellen N.

Nowland, Geo. H., Company, The, Cincinnati, Ohio. Antiseptic and tincture of iodine. 306,305, renewed Sept. 12, 1953. O. G. Dec. 1. Class 18.

Nox-Rust Chemical Corporation, Chicago, Ill. Undercoating and sound-deadening material. 583,074, Dec. 1; Serial No. 627,145, published Aug. 11, 1953. Class 12.

Ohio Ferro-Alloys Corporation, Canton, Ohio. Ferro-alloys. 583,087, Dec. 1; Serial No. 629,812, published Sept. 8, 1953. Class 14.

Orange-Crush Company, Chicago, Ill. Nonalcoholic, noncereal and maltless beverages and syrups, etc. 304,477, July 11, 1933. Republished Dec. 1. Class 45.

Oregon Fruit Products Co.: *See*—
Gehlar, Mark G.

Palmer Manufacturing Corporation: *See*—
Palmer, Oscar C.

Palmer Manufacturing Corporation, Phoenix, Ariz. Heating apparatus. 431,691, July 29, 1947. Republished Dec. 1. Class 34.

Palmer, Oscar C., by Palmer Manufacturing Corporation, Phoenix, Ariz. Air conditioning units. 330,466, Dec. 3, 1935. Republished Dec. 1. Class 34.

Papierfabrik Schoeller & Hoesch G. m. b. H., Gernsbach, Germany. Condenser paper and condenser tissue. 583,045, Dec. 1; Serial No. 611,615, published Aug. 4, 1953. Class 37.

Parade Publication, Inc., New York, N. Y. Feature picture section of a periodical. 583,186, Dec. 1; Serial No. 642,767, published Aug. 25, 1953. Class 38.

Parker, I. C., Fort Worth, Tex. Frozen confection. 583,241, Dec. 1; Serial No. 632,130. Class 46.

Pastival, Inc.: *See*—
Canonne, Henry.

Paxton and Gallagher, Co., Omaha, Nebr., to H. Fendrich, Incorporated, Evansville, Ind. Cigars. 304,694, renewed July 18, 1953. O. G. Dec. 1. Class 17.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Metal cleaner and descaler. 583,070, Dec. 1; Serial No. 625,028, published Sept. 8, 1953. Class 52.

Pennzoil Company, The: *See*—
Coast 2 Coast Oil Company.

Perfection Frocks, Inc., New York, N. Y. Ladies' dresses and house coats. 583,204, Dec. 1; Serial No. 644,500, published Sept. 1, 1953. Class 39.

Perfection Frocks, Inc., New York, N. Y. Ladies' house dresses and aprons. 583,206, Dec. 1; Serial No. 644,567, published Sept. 1, 1953. Class 39.

Petpak Products Company, Milwaukee, Wis. Bird feed. 583,189, Dec. 1; Serial No. 642,837, published Sept. 8, 1953. Class 46.

Phillips-Jones Corporation: *See*—
Phillips, M., & Son.

Phillips, M., & Son, to Phillips-Jones Corporation, New York, N. Y. Shirts. 41,133, re-renewed Sept. 22, 1953. O. G. Dec. 1. Class 39.

Phillips, M., & Son, to Phillips-Jones Corporation, New York, N. Y. Shirts. 41,135, re-renewed Sept. 22, 1953. O. G. Dec. 1. Class 39.

Physik Instrumente Huggenberger: *See*—
Huggenberger, Dr. Arnold.

Piggly Wiggly Corporation, Jacksonville, Fla. Coffee, tea, fresh eggs, etc. 583,054, Dec. 1; Serial No. 617,729, published July 28, 1953. Class 46.

Pineule Medicine Co., to E. C. De Witt & Co. Inc., Chicago, Ill. Preparation for alleviating mild rectal irritations, etc. 42,131, re-renewed Feb. 23, 1954. O. G. Dec. 1. Class 18.

Polk County Citrus Sub-Exchange, Bartow, Fla. Fresh citrus fruits. 583,173, Dec. 1; Serial No. 641,740, published June 2, 1953. Class 46.

Porter, H. K., Inc., Somerville, Mass. Single-hand cutting-off metal working tools. 583,046, Dec. 1; Serial No. 612,824, published June 30, 1953. Class 23.

Portland Footwear Co., Portland, Maine, assignor, by mesne assignments, to Textron, Incorporated, Providence, R. I. Shoes. 583,036, Dec. 1; Serial No. 605,051, published May 22, 1951. Class 39.

Powr-Pak, Inc., Bridgeport, Conn. Aerosol bomb or dispenser containing a chemical composition. 583,239–40, Dec. 1; Serial Nos. 632,045–6. Class 6.

Price Candy Company, Kansas City, Mo. Candy. 583,075, Dec. 1; Serial No. 627,701, published July 7, 1953. Class 46.

Pride & Co.: *See*—
Solomon, Edward F.

Progress Paint Mfg. Co., Inc., Louisville, Ky. Wall paints, floor paints, house paints, etc. 583,161, Dec. 1; Serial No. 640,527, published Sept. 1, 1953. Class 16.

Progressive Farmer Company, The, Birmingham, Ala. Employee publication. 583,138, Dec. 1; Serial No. 637,838, published Aug. 25, 1953. Class 38.

Ramont, Raymond E., doing business under the firm name of Floral Art Studios, Yucaipa, Calif. Plant leaves. 583,113, Dec. 1; Serial No. 634,489, published Aug. 25, 1953. Class 1.

Rand McNally & Company, Chicago, Ill. Candy. 583,139, Dec. 1; Serial No. 637,839, published Sept. 1, 1953. Class 46.

Reliance Manufacturing Company, Chicago, Ill. Women's, misses' and girls' dresses. 583,187, Dec. 1; Serial No. 642,771, published Sept. 1, 1953. Class 39.

Rezolin, Inc., Los Angeles, Calif. Liquid phenolic casting resin. 583,035, Dec. 1; Serial No. 604,327, published Aug. 25, 1953. Class 6.

Rice Growers Association of California, Sacramento, Calif. Rice. 583,129, Dec. 1; Serial No. 636,308, published July 7, 1953. Class 46.

Richmond-Chase Company, San Jose, Calif. Canned fruits, canned vegetables, and canned juices. 583,066, Dec. 1; Serial No. 622,312, published July 7, 1953. Class 46.

Riley, Elmer A., Monrovia, Calif. Broom holding brackets. 583,231, Dec. 1; Serial No. 623,156. Class 13.

Root & Company: *See*—
Root, Nathan.

Root, Nathan, doing business as Root & Company, Grand Rapids, Mich. Dry cleaning of textile articles. 583,221, Dec. 1; Serial No. 613,144, published Sept. 1, 1953. Class 103.

Roscoe Dust Cloth Service, Inc., Chicago, Ill. Dust cloths. 583,164, Dec. 1; Serial No. 640,868, published Sept. 1, 1953. Class 29.

Rosenblum, Nathan, & Co., by Golden Dawn Foods, Sharon, Pa. Matches. 364,134, Jan. 17, 1939. Republished Dec. 1. Class 9.

Rosenblum, Nathan, & Co., also doing business as Golden Dawn Foods, assignor to Golden Dawn Foods Wholesale Grocery Company, by Golden Dawn Foods, Sharon, Pa. Jellies, fruit preserves, peanut butter, etc. 440,293, Aug. 24, 1948. Republished Dec. 1. Class 46.

Rosomoff, Morris, doing business as Rossmar Laboratories, to Rossmar Laboratories, Inc., Philadelphia, Pa. Tonic and hematinic. 308,860, renewed Dec. 26, 1953. O. G. Dec. 1. Class 18.

Rossmar Laboratories: *See*—
Rosomoff, Morris.

Rossmar Laboratories, Inc.: *See*—
Rosomoff, Morris.

Rothmoor Corporation: *See*—
Cohen, Friedlander & Martin Co., The.

Rueping, Fred, Leather Company, Fond du Lac, Wis. Leather. 583,178, Dec. 1; Serial No. 642,371, published Aug. 25, 1953. Class 1.

Saladmaster Sales, Inc., Dallas, Tex. Metal cookware. 583,106–7, Dec. 1; Serial Nos. 633,737–8, published Aug. 25, 1953. Class 13.

Sanitary Seat Manufacturing Corporation, Venice, Calif. Toilet seats and covers. 583,071, Dec. 1; Serial No. 626,423, published Aug. 25, 1953. Class 13.

Sealed Power Corporation, Muskegon, Mich. Engine pistons, piston pins, and engine cylinder sleeves. 306,126, renewed Sept. 5, 1953. O. G. Dec. 1. Class 23.

Sears, Roebuck and Co., Chicago, Ill. Brush and comb sets. 583,085, Dec. 1; Serial No. 629,326, published Sept. 1, 1953. Class 40.

Seiberling Rubber Company, Barberton, Ohio. Rigid polyvinyl chloride sheets. 583,179, Dec. 1; Serial No. 642,375, published Aug. 25, 1953. Class 1.

Seminole Flavor Company, Chattanooga, Tenn. Lemon flavored carbonated non-alcoholic non-cereal maltless beverages. 583,052, Dec. 1; Serial No. 617,069, published Sept. 1, 1953. Class 45.

Shell Oil Company, New York, N. Y. Gasoline and lubricating oils. 583,147, Dec. 1; Serial No. 638,319, published Aug. 4, 1953. Class 15.

Smith-Douglass Company, Inc., trading as Growers Supply Co., Norfolk, Va. Fresh produce. 583,145, Dec. 1; Serial No. 638,122 published June 2, 1953. Class 46.

Solomon, Edward F., trading under the name Pride & Co., Philadelphia, Pa. Dog food. 583,030, Dec. 1; Serial No. 543,664, published June 2, 1953. Class 46.

Spector, Sheldon M., doing business under the name and style of Sun Laboratories, Miami, Fla. Cosmetics. 583,177, Dec. 1; Serial No. 642,314, published Aug. 4, 1953. Class 51.

Standard Motor Products, Inc., New York, to Standard Motor Products, Inc., Long Island City, N. Y. Parts for ignition systems of internal combustion engines. 306,448, renewed Sept. 19, 1953. O. G. Dec. 1. Class 21.

Standard Oil Company, Whiting, Ind., and Chicago, Ill. Gas-engine tractor oil. 95,169, re-renewed Feb. 3, 1954. O. G. Dec. 1. Class 15.

Standard Rayon Underwear Co., New York, N. Y. Clothing. 583,154, Dec. 1; Serial No. 639,670, published Sept. 1, 1953. Class 39.

Stead, Richard: *See*—
Cleo Beauty Products Company.

Stewart, J. & G., Limited, Edinburgh, Scotland. Scotch whisky. 583,102, Dec. 1; Serial No. 633,337, published Sept. 1, 1953. Class 49.

Stout, Charles B., doing business under the trade name of Dixie-Portland Flour Mills, Memphis, Tenn. Wheat flour. 583,033, Dec. 1; Serial No. 586,608, published June 23, 1953. Class 46.

Strathmore Paper Company: *See*—
Mittineague Paper Company.
Woronoco Paper Company.

Strathmore Paper Company, by Strathmore Paper Company, West Springfield, Mass. Cover paper. 106,380, Oct. 19, 1915. Republished Dec. 1. Class 37.

Strathmore Paper Company, West Springfield, Mass. Book, text, and cover paper and mailing envelopes. 270,000, Apr. 22, 1930. Republished Dec. 1. Class 37.

Strathmore Paper Company, West Springfield, Mass. Papeteries, bristol board, paper and cards, etc. 271,428, June 3, 1930. Republished Dec. 1. Class 37.

Sun Laboratories: *See*—
Spector, Sheldon M.

Supersite Corporation, New York, N. Y. Bumpers for automobile doors. 583,244, Dec. 1; Serial No. 635,978. Class 19.

Supowitz Brothers, Pittsburgh, Pa. Boys' shoes. 583,149, Dec. 1; Serial No. 638,671, published Aug. 11, 1953. Class 39.

Swenson, James A.: *See*—
Cleo Beauty Products Company.

Swiss Pine Importing Co., Inc., New York, N. Y. Deodorant, shaving lotion, and after shave stick. 583,184, Dec. 1; Serial No. 642,578, published Aug. 4, 1953. Class 51.

Texas Chemical Company to Consolidated Chemical Industries Inc., Houston, Tex. Chemical compound—namely, an inhibitor for muriatic acid. 309,980, renewed Feb. 6, 1954. O. G. Dec. 1. Class 6.

Textron, Incorporated, assignee: *See*—
Portland Footwear Co.

Thomas & Co., Inc., Seattle, Wash. Beads, pearl jewelry, and pearls. 583,210, Dec. 1; Serial No. 644,883, published July 28, 1953. Class 28.

Thompson, Clifford J., Davenport, Fla. Insoles. 583,050, Dec. 1; Serial No. 616,256, published Aug. 11, 1953. Class 39.

Timber Engineering Company, Washington, D. C. Metal grooving tools. 583,115, Dec. 1; Serial No. 635,006, published Sept. 8, 1953. Class 23.

Triner, Joseph, Corporation, Chicago, Ill. General tonic having a wine base. 296,555, renewed Aug. 9, 1952. O. G. Dec. 1. Class 18.

Union Carbide and Carbon Corporation, New York, N. Y. Ferrochrome. 583,068, Dec. 1; Serial No. 624,251, published Sept. 1, 1953. Class 14.

United Elastic Corporation, Easthampton, Mass. Narrow elastic webbing. 583,108, Dec. 1; Serial No. 633,803, published Sept. 8, 1953. Class 42.

United Feature Syndicate, Inc., New York, N. Y. Section or column appearing in a newspaper or periodical. 309,623, renewed Jan. 23, 1954. O. G. Dec. 1. Class 38.

U. S. Diamond Ring Corp., New York, N. Y. Finger rings. 583,093, Dec. 1; Serial No. 631,703, published Dec. 23, 1952. Class 28.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Metal reel-like containers. 583,101, Dec. 1; Serial No. 632,962, published Sept. 8, 1953. Class 2.

United States Steel Corporation: *See*—
United States Steel Company.

Universal Form Clamp Co., Chicago, Ill. Concrete construction forms and parts for the forms. 583,084, Dec. 1; Serial No. 628,833, published Sept. 1, 1953. Class 12.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 583,191, Dec. 1; Serial No. 642,912, published Aug. 18, 1953. Class 18.

Vita Foods: *See*—
Aycock, Thomas J., Jr.

Vulcancraft Fabricating Company: *See*—
Kiser, William J.

Vunck, George W., doing business as O. B. Vunck & Son, Voorheesville, N. Y. Chicken and live stock feeds. 583,072, Dec. 1; Serial No. 626,431, published June 23, 1953. Class 46.

Vunck, O. B., & Son: *See*—
Vunck, George W.

Wacker-Chemie, G. m. b. H.: *See*—
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H.

Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie, G. m. b. H. Balloon, airplane, sailcloth, umbrella, lace and gauze fabrics, etc. 583,123, Dec. 1; Serial No. 635,570, published July 14, 1953. Class 42.

Wade, Wenger & Associates, Inc., Chicago, Ill. Cleaning compounds. 583,083, Dec. 1; Serial No. 628,798, published Sept. 8, 1953. Class 52.

Waite Carpet Company, Oshkosh, Wis. Textile rugs and carpets. 583,158, Dec. 1; Serial No. 640,182, published Sept. 8, 1953. Class 42.

Waite Carpet Company, Oshkosh, Wis. Textile rugs and carpets. 583,196, Dec. 1; Serial No. 643,521, published Sept. 8, 1953. Class 42.

Walker, John, & Sons, Limited, London, England. Whisky. 307,393, renewed Oct. 24, 1953. O. G. Dec. 1. Class 49.

Wamsutta Mills, New Bedford, Mass. Piece goods. 583,216, Dec. 1; Serial No. 645,685, published Sept. 8, 1953. Class 42.

Washington Co-Operative Farmers Association, Seattle, Wash. Fresh shell eggs. 583,057, Dec. 1; Serial No. 619,487, published June 2, 1953. Class 46.

Washington Steel Products, Inc., Tacoma, Wash. Door catches, door hinges, and rolling door hangers. 583,199, Dec. 1; Serial No. 643,802, published Sept. 1, 1953. Class 13.

Waterloo Canning Association, Waterloo, Wis. Canned sweet peas, canned June peas. 583,248, Dec. 1; 643,988. Class 46.

Wesco Waterpaints, Inc., Berkeley, Calif. Flat wall paint. 583,061, Dec. 1; Serial No. 621,095, published Sept. 1, 1953. Class 16.

Weyerhaeuser Timber Company, Tacoma, Wash. Kraft container board. 583,156, Dec. 1; Serial No. 640,090, published June 30, 1953. Class 37.

White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental plaster for making casts and models, etc. 306,667, renewed Sept. 26, 1953. O. G. Dec. 1. Class 44.

Wigler, Albert I., Newark, N. J. Soap, shaving cream, belt dressings, dry cleaner, razor strop abrasive, etc. 306,755, renewed Sept. 26, 1953. O. G. Dec. 1. Class 4.

Wilen Brothers, Inc., Philadelphia, Pa. Wines. 583,058, Dec. 1; Serial No. 620,638, published Sept. 1, 1953. Class 47.

Wilkins, John H., Company, Washington, D. C. Coffee. 300,478, Jan. 24, 1933. Republished Dec. 1. Class 46.

Wilrick, Inc., New York, N. Y. Fruit flavored maltless soft drinks and concentrates. 583,175, Dec. 1; Serial No. 642,249, published Sept. 1, 1953. Class 45.

Wilson Jones Company, Chicago, Ill. Punching machines as office appliances for perforating sheets. 307,645, renewed Oct. 31, 1953. O. G. Dec. 1. Class 23.

Wine Growers Guild, Lodi, Calif. Wines. 583,044, Dec. 1; Serial No. 610,881, published Aug. 11, 1953. Class 47.

Wolfelt, Curt, doing business as Curt Wolfelt Studios, New York, N. Y. Ladies' and misses' shoes, sandals, and playshoes. 583,077, Dec. 1; Serial No. 628,080, published Aug. 11, 1953. Class 39.

Wolfelt, Curt, Studios: *See*—
Wolfelt, Curt.

Woronoco Paper Company, Woronoco, by Strathmore Paper Company, West Springfield, Mass. All kinds of fine writing paper. 39,010, Dec. 25, 1906. Republished Dec. 1. Class 37.

Worthmor Ice Cream Co., Lake Worth, Fla. Ice cream. 583,144, Dec. 1; Serial No. 638,029, published July 14, 1953. Class 46.

Wright, E. H., Company, Ltd., The, Kansas City, Mo. Preparations for smoking meats. 53,070, May 22, 1906. Republished Dec. 1. Class 6.

Yara Engineering Corporation, Elizabeth, N. J. Pipes and pipe fittings. 583,247, Dec. 1; Serial No. 639,971. Class 13.

Yocum Bros., Inc.: *See*—
Fleck Cigar Co. Ltd.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Amorphous silica. E. I. du Pont de Nemours and Company. 583,193, Dec. 1; Serial No. 643,089, published Aug. 25, 1953.

Leather. Eagle-Ottawa Leather Company. 583,174, Dec. 1; Serial No. 642,207, published Aug. 25, 1953.

Leather. Fred Rueping Leather Company. 583,178, Dec. 1; Serial No. 642,371, published Aug. 25, 1953.

Live poultry. P. T. Leonard. 583,176, Dec. 1; Serial No. 642,289, published Aug. 25, 1953.

Moulding compounds comprising synthetic rubber-like materials. Eastman Kodak Company. 583,157, Dec. 1; Serial No. 640,112, published Sept. 1, 1953.

Mucilaginous products of vegetable origin for sizing, dressing and finishing fabrics and materials. The Gum Tragasol Supply Company Limited. 92,070, June 17, 1913. Corrected. O. G. Dec. 1.

Plant leaves. R. E. Ramont. 583,113, Dec. 1; Serial No. 634,489, published Aug. 25, 1953.

Polyvinyl chloride sheets, Rigid. Seiberling Rubber Company. 583,179, Dec. 1; Serial No. 642,375, published Aug. 25, 1953.

CLASS 2

Bags, Shopping. H. H. Kleiss. 583,114, Dec. 1; Serial No. 634,789, published Sept. 1, 1953.

Cases, Jewel. Farrington Manufacturing Company. 583,180–1, Dec. 1; Serial Nos. 642,397–8, published Sept. 1, 1953.

Cases, Jewel. Farrington Manufacturing Company. 583,182–3, Dec. 1; Serial Nos. 642,402–3, published Sept. 1, 1953.

Cases, Paperboard shipping. O. B. Andrews Company. 583,124, Dec. 1; Serial No. 635,671, published Sept. 1, 1953.

Containers, Metal reel-like. United States Steel Company. 583,101, Dec. 1; Serial No. 632,962, published Sept. 8, 1953.

CLASS 4

Abrasives, Flexible and inflexible. Behr-Manning Corporation. 583,109, Dec. 1; Serial No. 634,134, published Sept. 8, 1953.

Leather dressings and polishes. The Gum Tragasol Supply Company Limited. 92,071, June 17, 1913. Corrected. O. G. Dec. 1.

Polishing preparations. The Kiwi Polish Company Proprietary Limited. 583,104, Dec. 1; Serial No. 633,542, published Aug. 25, 1953.

Soap, shaving cream, belt dressings, dry cleaner, razor strop abrasive, etc. A. I. Wigler. 306,755, renewed Sept. 26, 1953. O. G. Dec. 1.

CLASS 6

Aerosol bomb or dispenser containing a chemical composition. Powr-Pak, Inc. 583,239–40, Dec. 1; Serial Nos. 632,045–6.

Algin. Innis, Speiden & Co., Inc. 583,132–3, Dec. 1; Serial Nos. 637,590–1, published Sept. 8, 1953.

Belt dressing, Liquid. A. W. Chesterton Company. 583,243, Dec. 1; Serial No. 635,520.

Bluing, ammonia, and Javelle water. Empire Bottling Works. 307,083, renewed Oct. 17, 1953. O. G. Dec. 1.

Chemical compound—namely, an inhibitor for muriatic acid. Texas Chemical Company to Consolidated Chemical Industries Inc. 309,980, renewed Feb. 6, 1954. O. G. Dec. 1.

Disinfectant, Pine oil, isopropyl alcohol compound, and mint oil disinfectant. National Paper & Specialty Co., Inc. 583,169, Dec. 1; Serial No. 641,201, published Sept. 8, 1953.

Lanolin, beeswax, candelilla wax, etc. Innis, Speiden & Co., Inc. 583,134–5, Dec. 1; Serial Nos. 637,592–3, published Sept. 8, 1953.

Liquid phenolic casting resin. Rezolin, Inc. 583,035, Dec. 1; Serial No. 604,327, published Aug. 25, 1953.

Petroleum products. W. H. Barber Company. 583,249, Dec. 1; Serial No. 645,768.

Poison bait, Rat and mice. J. Cameron. 583,242, Dec. 1; Serial No. 632,415.

Preparations for smoking meats. The E. H. Wright Company, Ltd. 53,070, May 22, 1906. Republished Dec. 1.

Solution for treating photographic prints. Agfa Ansco Corporation. 306,180, renewed Sept. 12, 1953. O. G. Dec. 1.

CLASS 9

Matches. Nathan Rosenblum & Co. 364,134, Jan. 17, 1939. Republished Dec. 1.

CLASS 12

Articles of iron, steel or other metals, ornamental railings, window grilles, etc. W. J. Kiser. 583,069, Dec. 1; Serial No. 624,276, published Aug. 11, 1953.

Concrete construction forms and parts for the forms. Universal Form Clamp Co. 583,084, Dec. 1; Serial No. 628,833, published Sept. 1, 1953.

Foundation piles and sheet piles molded in the ground, piles, sheet piles and construction elements prepared in advance, etc. Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme. 306,046, renewed Sept. 5, 1953. O. G. Dec. 1.

Ingredients comprising a silica aggregate and a sodium silicate solution and used for making a silicate cement. The Atlas Mineral Products Company of Pennsylvania. 583,089, Dec. 1; Serial No. 630,112, published Aug. 11, 1953.
Lumber, Glued laminated. Ed Fountain Lumber Co. 583,131, Dec. 1; Serial No. 636,974, published Aug. 11, 1953.
Undercoating and sound-deadening material. Nox-Rust Chemical Corporation. 583,074, Dec. 1; Serial No. 627,145, published Aug. 11, 1953.

CLASS 13

Broilers. Benham Manufacturing Corporation. 583,228, Dec. 1; Serial No. 587,175.
Broom holding brackets. E. A. Riley. 583,231, Dec. 1; Serial No. 623,156.
Chains, Tire. The Cleveland Chain & Mfg. Co. 583,198, Dec. 1; Serial No. 643,755, published Sept. 1, 1953.
Cooking utensils. Advance Aluminum Castings Corp. 583,126, Dec. 1; Serial No. 635,990, published Aug. 25, 1953.
Door catches, door hinges, and rolling door hangers. Washington Steel Products, Inc. 583,199, Dec. 1; Serial No. 643,802, published Sept. 1, 1953.
Equipment for portable irrigation systems. Farmland Irrigation Company, Inc. 583,236, Dec. 1; Serial No. 628,814.
Metal cookware. Saladmaster Sales, Inc. 583,106–7, Dec. 1; Serial Nos. 633,737–8, published Aug. 25, 1953.
Pans. M. M. Goodman. 583,078, Dec. 1; Serial No. 628,105, published Aug. 25, 1953.
Pipe hanger assemblies, fittings, concrete inserts, etc. The Modern Hanger Corporation. 583,159, Dec. 1; Serial No. 640,296, published Aug. 25, 1953.
Pipes and pipe fittings. Yara Engineering Corporation. 583,247, Dec. 1; Serial No. 639,971.
Toilet seats and covers. Sanitary Seat Manufacturing Corporation. 583,071, Dec. 1; Serial No. 626,423, published Aug. 25, 1953.
Valve, Water closet tank ball, and valve seating guide. Chicago Specialty Manufacturing Co. 583,141, Dec. 1; Serial No. 637,913, published Aug. 25, 1953.
Valves. The Denison Engineering Company. 583,059, Dec. 1; Serial No. 620,839, published Aug. 25, 1953.

CLASS 14

Ferro-alloys. Ohio Ferro-Alloys Corporation. 583,087, Dec. 1; Serial No. 629,812, published Sept. 8, 1953.
Ferrochrome. Union Carbide and Carbon Corporation. 583,068, Dec. 1; Serial No. 624,251, published Sept. 1, 1953.

CLASS 15

Gasoline and lubricating oils. Shell Oil Company. 583,147, Dec. 1; Serial No. 638,319, published Aug. 4, 1953.
Oil, Gas-engine tractor. Standard Oil Company. 95,169, re-renewed Feb. 3, 1954. O. G. Dec. 1.
Oils, Lubricating. Coast 2 Coast Oil Company. 307,210, renewed Oct. 17, 1953. O. G. Dec. 1.
Soap especially formulated for wire-drawing. Armour and Company. 583,142, Dec. 1; Serial No. 637,972, published Aug. 4, 1953.

CLASS 16

Enamels. Benjamin Moore & Co. 583,092, Dec. 1; Serial No. 631,365, published Sept. 1, 1953.
Paint, Flat wall. Wesco Waterpaints, Inc. 583,061, Dec. 1; Serial No. 621,095, published Sept. 1, 1953.
Paint oil. Benjamin Moore & Co. 583,153, Dec. 1; Serial No. 639,586, published Sept. 1, 1953.
Paint products. De Soto Paint & Varnish Co. 583,037, Dec. 1; Serial No. 605,644, published Sept. 1, 1953.
Paints, Ready mixed. Benjamin Moore & Co. 583,091, Dec. 1; Serial No. 631,017, published Sept. 1, 1953.
Paints, Wall, floor paints, house paints, etc. Progress Paint Mfg. Co., Inc. 583,161, Dec. 1; Serial No. 640,527, published Sept. 1, 1953.
Primer-sealer, Lacquer. E. I. du Pont de Nemours and Company. 583,165, Dec. 1; Serial No. 641,027, published Sept. 1, 1953.
Sealer and finisher coating preparation, Protective and preservative. Lazy Susan Products. 583,063, Dec. 1; Serial No. 621,321, published Sept. 1, 1953.

CLASS 17

Cigars. Fleck Cigar Co., Ltd. 95,087–8, re-renewed Feb. 3, 1954. O. G. Dec. 1.
Cigars. Paxton and Gallagher Co. 304,694, renewed July 18, 1953. O. G. Dec. 1.

CLASS 18

Ampules, tablets and drops for oral use in the treatment of heart disease, etc. A. Moussalli. 583,056, Dec. 1; Serial No. 619,208, published July 28, 1953.
Antiseptic and tincture of iodine. The Geo. H. Nowland Company. 306,305, renewed Sept. 12, 1953. O. G. Dec. 1.
Calcium pantothenate containing products. Nopco Chemical Company. 583,067, Dec. 1; Serial No. 623,672, published July 28, 1953.
Eye-water. Howard Bros. Chemical Co. 93,599, re-renewed Sept. 30, 1953. O. G. Dec. 1.
Lip pomade. Jacqueline Cochran, Inc. 583,237, Dec. 1; Serial No. 629,841.
Medicinal preparation. The Upjohn Company. 583,191, Dec. 1; Serial No. 642,912, published Aug. 18, 1953.
Pastils for the treatment of maladies of the respiratory organs. H. Canonne. 41,487, re-renewed Nov. 17, 1953. O. G. Dec. 1.
Pharmaceutical products. Medical Drug Corporation. 583,245, Dec. 1; Serial No. 639,280.
Preparation for alleviating mild rectal irritations, etc. Pineule Medicine Co. 42,131, re-renewed Feb. 23, 1954. O. G. Dec. 1.
Tonic and hematinic. M. Rosomoff. 308,860, renewed Dec. 26, 1953. O. G. Dec. 1.
Tonic having a wine base, General. Joseph Triner Corporation. 296,555, renewed Aug. 9, 1952. O. G. Dec. 1.

CLASS 19

Bumpers for automobile doors. Supersite Corporation. 583,244, Dec. 1; Serial No. 635,978.
Trailer couplings and brake-actuating trailer couplings. M. Laudahl. 583,246, Dec. 1; Serial No. 639,477.

CLASS 20

Felt base, linoleum, composition, and plastic floor coverings and rugs. Bonafide Mills, Inc. 583,160, Dec. 1; Serial No. 640,430, published Aug. 25, 1953.

CLASS 21

Antenna, Television. J F D Manufacturing Co., Inc. 583,232, Dec. 1; Serial No. 623,894.
Electric block signal light systems for railways, electric light signal systems for street traffic, etc. Nachod & United States Signal Co., Inc. 300,920, renewed Feb. 14, 1953. O. G. Dec. 1.
Electric wire harnesses. Essex Wire Corporation. 583,152, Dec. 1; Serial No. 639,323, published June 30, 1953.
Parts for ignition systems of internal combustion engines. Standard Motor Products, Inc. 306,448, renewed Sept. 19, 1953. O. G. Dec. 1.

CLASS 22

Amusement device, Coin-controlled. Bally Manufacturing Company. 583,155, Dec. 1; Serial No. 640,063, published July 7, 1953.

CLASS 23

Apparatus or machines operated hydraulically, or by other power for lifting heavy objects. R. H. Corbett & Co. Limited. 583,053, Dec. 1; Serial No. 617,108, published June 30, 1953.
Bimetallic articles—namely, internal-combustion engines, etc. Fairchild Engine and Airplane Corporation. 583,172, Dec. 1; Serial No. 641,546, published July 14, 1953.
Device consisting of a pole on the end of which is a clamp and/or a suction cup used to replace electric light bulbs and fluorescent tubes in out of reach places. Gets-A-Lite Company. 583,234, Dec. 1; Serial No. 626,070.
Engine pistons, piston pins, and engine cylinder sleeves. Sealed Power Corporation. 306,126, renewed Sept. 5, 1953. O. G. Dec. 1.
Internal combustion engines. Nordberg Manufacturing Company. 583,094, Dec. 1; Serial No. 631,757, published June 30, 1953.
Motor driven machines. Heckethorn Manufacturing & Supply Co. 413,785, May 15, 1945. Republished Dec. 1.
Punching machines as office appliances for perforating sheets. Wilson Jones Company. 307,645, renewed Oct. 31, 1953. O. G. Dec. 1.
Razors and razor blades. Enders Razor Company, Inc. 308,593, renewed Dec. 12, 1953. O. G. Dec. 1.
Saws. Henry Disston & Sons, Incorporated. 308,511, Dec. 5, 1933. Republished Dec. 1.
Saws. Henry Disston & Sons, Incorporated. 308,513, Dec. 5, 1933. Republished Dec. 1.
Tools, Metal grooving. Timber Engineering Company. 583,115, Dec. 1; Serial No. 635,006, published Sept. 8, 1953.
Tools, Single-hand cutting-off metal working. H. K. Porter, Inc. 583,046, Dec. 1; Serial No. 612,824, published June 30, 1953.
Work feeding and ejecting devices, Automatic. Heckethorn Manufacturing & Supply Co. 412,535, Mar. 13, 1945. Republished Dec. 1.
Wrenches and vises. Bonney Vise & Tool Works, Inc. 68,202, Mar. 17, 1908. Republished Dec. 1.

CLASS 26

Blast furnace charging controls for sequencing and coordinating charging apparatus for blast furnaces, etc. Freyn Engineering Company. 308,020, renewed Nov. 14, 1953. O. G. Dec. 1.
Gauging machines. Heckethorn Manufacturing & Supply Co. 414,184, May 29, 1945. Republished Dec. 1.
Machines, apparatus, and devices for testing all kinds of structures and materials, etc. Dr. Arnold Huggenberger. 304,710, renewed July 18, 1953. O. G. Dec. 1.

CLASS 27

Watches. Hampden Watch Company. 583,214, Dec. 1; Serial No. 645,647, published July 28, 1953.
Watches and clocks. Cyma Watch Co., Inc. 583,205, Dec. 1; Serial No. 644,544, published July 28, 1953.
Watches and parts of watches. Amida S. A. 583,207, Dec. 1; Serial No. 644,710, published July 28, 1953.

CLASS 28

Beads, pearl jewelry, and pearls. Thomas & Co., Inc. 583,210, Dec. 1; Serial No. 644,883, published July 28, 1953.
Bracelets and watch bracelets and watch straps. Gemex Company. 583,201, Dec. 1; Serial No. 644,169, published July 28, 1953.
Jewelry. Foster Metal Products Incorporated. 583,151, Dec. 1; Serial No. 639,031, published July 28, 1953.
Rings, Finger. Blanchard & Company, Inc. 583,194, Dec. 1; Serial No. 643,205, published July 28, 1953.
Rings, Finger. U. S. Diamond Ring Corp. 583,093, Dec. 1; Serial No. 631,703, published Dec. 23, 1952.
Sterling silver hollowware. The Ellmore Silver Co., Inc. 583,200, Dec. 1; Serial No. 644,021, published July 28, 1953.
Wrist watch bands. Jacques Kreisler Manufacturing Corporation. 583,047, Dec. 1; Serial No. 615,391, published July 28, 1953.

CLASS 29

Brushes, Hair, nail brushes, and tooth brushes. Gibson-Thomsen Co., Inc. 583,166, Dec. 1; Serial No. 641,041, published Sept. 1, 1953.
Dust cloths. Roscoe Dust Cloth Service, Inc. 583,164, Dec. 1; Serial No. 640,868, published Sept. 1, 1953.
Mops, Fountain. Alwin Brush and Supply Company. 583,235, Dec. 1; Serial No. 628,381.

CLASS 32

Tables and chairs, Kitchen and dinette. Douglas Furniture Corporation. 583,112, Dec. 1; Serial No. 634,394, published Aug. 25, 1953.
Wall and floor cabinets, Metal. Electroweld Mfg. Co., Inc. 583,090, Dec. 1; Serial No. 630,590, published Aug. 25, 1953.

CLASS 34

Air conditioning units. O. C. Palmer. 330,466, Dec. 3, 1935. Republished Dec. 1.
Heating apparatus. Palmer Manufacturing Corporation. 431,691, July 29, 1947. Republished Dec. 1.

CLASS 35

Belting, Leather. E. F. Houghton & Co. 308,473, Dec. 5, 1933. Republished Dec. 1.
Tire covers; brake lining; gaskets; etc. The Firestone Tire & Rubber Company. 306,334, renewed Sept. 12, 1953. O. G. Dec. 1.

CLASS 36

Pianos and grand pianos. C. Bechstein Pianofortefabrik Aktiengesellschaft. 583,233, Dec. 1; Serial No. 624,810.

CLASS 37

Kraft container board. Weyerhaeuser Timber Company. 583,156, Dec. 1; Serial No. 640,090, published June 30, 1953.
Paper, All kinds of fine writing. Woronoco Paper Company. 59,010, Dec. 25, 1906. Republished Dec. 1.
Paper, Book, text, and cover, and mailing envelopes. Strathmore Paper Company. 270,000, Apr. 22, 1930. Republished Dec. 1.
Paper, Condenser, and condenser tissue. Papierfabrik Schoeller & Hoesch G. m. b. H. 583,045, Dec. 1; Serial No. 611,615, published Aug. 4, 1953.
Paper, Cover. Strathmore Paper Company. 106,380, Oct. 19, 1915. Republished Dec. 1.
Paper napkins, paper towels, and toilet tissue. Crown Zellerbach Corporation. 583,029, Dec. 1; Serial No. 542,012, published Apr. 22, 1952.
Paper, Writing, book paper, and paper to be used for covers of pamphlets, etc. Mittineague Paper Company. 65,496, Oct. 8, 1907. Republished Dec. 1.
Paper, Writing, drawing, and book, paper for covers of pamphlets, etc. Mittineague Paper Company. 57,916, Dec. 4, 1906. Republished Dec. 1.
Papeteries, bristol board, paper and cards, etc. Strathmore Paper Company. 271,428, June 3, 1930. Republished Dec. 1.

CLASS 38

Feature picture section of a periodical. Parade Publication, Inc. 583,186, Dec. 1; Serial No. 642,767, published Aug. 25, 1953.
Greeting cards. Munson Masterpieces, Inc. 583,185, Dec. 1; Serial No. 642,765, published Aug. 25, 1953.
Magazine, Quarterly. American Hospital Association. 583,096, Dec. 1; Serial No. 632,064, published Aug. 25, 1953.
Magazines. The Dealers' Digest Publishing Company, Inc. 583,148, Dec. 1; Serial No. 638,571, published Aug. 25, 1953.
Publication, Employee. The Progressive Farmer Company. 583,138, Dec. 1; Serial No. 637,838, published Aug. 25, 1953.
Publications of cartoons. A. F. and S. Miller. 583,041, Dec. 1; Serial No. 608,616, published Aug. 25, 1953.
Section or column appearing in a newspaper or periodical. United Feature Syndicate, Inc. 309,623, renewed Jan. 23, 1954. O. G. Dec. 1.

CLASS 39

Clothing. Standard Rayon Underwear Co. 583,154, Dec. 1; Serial No. 639,670, published Sept. 1, 1953.
Coats, Ladies' and misses'. Barkin, Levin & Co. Inc. 583,127–8, Dec. 1; Serial Nos. 636,195–6, published Aug. 25, 1953.
Coats, suits, dresses, etc., Women's, misses', and children's. Lansburgh & Bro. 583,171, Dec. 1; Serial No. 641,310, published Aug. 25, 1953.
Coats, suits, jackets, and skirts, Ladies' and misses'. The House of Swansdown, Inc. 583,170, Dec. 1; Serial No. 641,301, published Aug. 4, 1952.
Cravats, four-in-hand ties, bow ties, etc. S. Goidl. 309,595, renewed Jan. 23, 1954. O. G. Dec. 1.
Dresses. The Gottfried Company. 583,195, Dec. 1; Serial No. 643,418, published Sept. 1, 1953.
Dresses and aprons, Ladies' house. Perfection Frocks, Inc. 583,206, Dec. 1; Serial No. 644,567, published Sept. 1, 1953.
Dresses and house coats, Ladies'. Perfection Frocks, Inc. 583,204, Dec. 1; Serial No. 644,500, published Sept. 1, 1953.
Dresses and housecoats, Women's and misses'. Basila Mfg. Co., Inc. 583,188, Dec. 1; Serial No. 642,797, published Sept. 1, 1953.
Dresses, Women's maternity. Malouf Company. 583,162, Dec. 1; Serial No. 640,573, published Sept. 1, 1953.
Dresses, Women's, misses' and girls'. Reliance Manufacturing Company. 583,187, Dec. 1; Serial No. 642,771, published Sept. 1, 1953.
Foundation garments. Kabo, Inc. 583,209, Dec. 1; Serial No. 644,762, published Sept. 1, 1953.
Girdles. International Latex Corporation. 583,208, Dec. 1; Serial No. 644,755, published Sept. 1, 1953.
Insoles. C. J. Thompson. 583,050, Dec. 1; Serial No. 616,256, published Aug. 11, 1953.
Shirts. M. Phillips & Son. 41,133, re-renewed Sept. 22, 1953. O. G. Dec. 1.
Shirts. M. Phillips & Son. 41,135, re-renewed Sept. 22, 1953. O. G. Dec. 1.
Shirts, Men's and boys' dress and sport. Bedford Shirt Corp. 583,065, Dec. 1; Serial No. 622,137, published Aug. 4, 1953.
Shoes. London Character Shoes Corporation. 583,190, Dec. 1; Serial No. 642,889, published Aug. 11, 1953.
Shoes. Portland Footwear Co. 583,036, Dec. 1; Serial No. 605,051, published May 22, 1951.
Shoes, Boys'. Supowitz Brothers. 583,149, Dec. 1; Serial No. 638,671, published Aug. 11, 1953.
Shoes, Rubber-soled canvas. The B. F. Goodrich Company. 583,097, Dec. 1; Serial No. 632,083, published Aug. 11, 1953.
Shoes, sandals, and playshoes, Ladies' and misses'. C. Wolfelt. 583,077, Dec. 1; Serial No. 628,080, published Aug. 11, 1953.
Shoes, sandals, and slippers, Men's and women's. John Flautt Shoe Company Inc. 583,150, Dec. 1; Serial No. 639,030, published Aug. 4, 1953.
Slippers, Platform. R. G. Barry Corporation. 583,073, Dec. 1; Serial No. 626,775, published Aug. 25, 1953.
Slips and half slips, Ladies'. Archdale Manufacturing Company, Inc. 583,088, Dec. 1; Serial No. 630,053, published Aug. 4, 1953.
Soles, Rubber, and for footwear. Mishawaka Rubber and Woolen Manufacturing Company. 583,031, Dec. 1; Serial No. 563,207, published Aug. 25, 1953.
Suits and coats, Ladies'. The Cohen, Friedlander & Martin Co. 166,598, Apr. 10, 1923. Republished Dec. 1.
Suits and overcoats, Men's and women's, women's dresses. Bachmann Uxbridge Worsted Corporation. 583,163, Dec. 1; Serial No. 640,778, published Aug. 11, 1953.
Undergarments, Women's. Holland-Hessol Co., Inc. 583,197, Dec. 1; Serial No. 643,587, published Sept. 1, 1953.

CLASS 40

Brush and comb sets. Sears, Roebuck and Co. 583,085, Dec. 1; Serial No. 629,326, published Sept. 1, 1953.
Closures and fasteners for wearing apparel, shoe rings, etc. Koh-I-Noor, Spojene Kovoprumysiove Zavody. 583,043, Dec. 1; Serial No. 610,564, published Aug. 18, 1953.
Hair curlers, Non-electrical. Cleo Beauty Products Company. 583,049, Dec. 1; Serial No. 615,804, published Sept. 1, 1953.

CLASS 42

Curtains and draperies, Window. J. London & Co. 583,055, Dec. 1; Serial No. 619,206, published Sept. 8, 1953.
Curtains, Window. Bartmann & Bixer, Inc. 583,217, Dec. 1; Serial No. 645,769, published Sept. 8, 1953.
Curtains, Window, cafe curtains, and Dutch curtains. De Jong Inc. 583,219, Dec. 1; Serial No. 646,055, published Sept. 8, 1953.

Elastic webbing, Narrow. United Elastic Corporation. 583,108, Dec. 1; Serial No. 633,803, published Sept. 8, 1953.
Fabrics. Barbet Mills, Inc. 583,130, Dec. 1; Serial No. 636,351, published Sept. 1, 1953.
Fabrics. Burlington Mills Corporation. 583,213, Dec. 1; Serial No. 645,534, published Sept. 8, 1953.
Fabrics, etc., Balloon, airplane, sailcloth, umbrella, lace and gauze. Dr. Alexander Wacker. 583,123, Dec. 1; Serial No. 635,570, published July 14, 1953.
Fabrics, Textile. Comptoir de l'Industrie Cotonniere, Etablissements, Boussac Société à Responsabilité Limitée. 583,137, Dec. 1; Serial No. 637,817, published Sept. 1, 1953.
Fabrics, Textile. Dan River Mills, Incorporated. 583,212, Dec. 1; Serial No. 645,359, published Sept. 8, 1953.
Fabrics, Textile. Deering, Milliken & Co., Inc. 583,220, Dec. 1; Serial No. 646,114, published Sept. 8, 1953.
Piece goods. National Tricot Company. 583,215, Dec. 1; Serial No. 645,657, published Sept. 8, 1953.
Piece goods. Wamsutta Mills. 583,216, Dec. 1; Serial No. 645,685, published Sept. 8, 1953.
Piece goods, Cotton. S. H. Kress and Company. 583,218, Dec. 1; Serial No. 646,034, published Sept. 8, 1953.
Piece goods, Woolen and worsted. G. Garnett & Sons, Limited. 305,806, renewed Aug. 22, 1953. O. G. Dec. 1.
Rugs and carpets, Textile. Waite Carpet Company. 583,158, Dec. 1; Serial No. 640,182, published Sept. 8, 1953.
Rugs and carpets, Textile. Waite Carpet Company. 583,196, Dec. 1; Serial No. 643,521, published Sept. 8, 1953.
Textile ribbons. National Tinsel Manufacturing Company. 583,167, Dec. 1; Serial No. 641,078, published Aug. 4, 1953.

CLASS 43

Yarns. Glanzstoff-Courtaulds G. m. b. H. 583,125, Dec. 1; Serial No. 635,962, published Aug. 18, 1953.
Yarns and filaments, Synthetic. Kurashiki Rayon Company, Limited. 583,099, Dec. 1; Serial No. 632,652, published Aug. 18, 1953.
Yarns, threads, cords, etc. Dollfus-Mieg & Cie. Societe Anonyme. 94,720, re-renewed Dec. 30, 1953. O. G. Dec. 1.

CLASS 44

Dental plaster for making casts and models, etc. The S. S. White Dental Manufacturing Company. 306,667, renewed Sept. 26 1953. O. G. Dec. 1.
Orthopedic composition. Davis & Geck, Inc. 583,100, Dec. 1; Serial No. 632,774, published Aug. 25, 1953.

CLASS 45

Beverages and syrups, etc., Nonalcoholic, noncereal and maltless. Orange-Crush Company. 304,477, July 11, 1933. Republished Dec. 1.
Beverages, Lemon flavored carbonated non-alcoholic noncereal maltless. Seminole Flavor Company. 583,052, Dec. 1; Serial No. 617,069, published Sept. 1, 1953.
Root beer syrup for making carbonated beverages, etc. Lyons-Magnus, Inc. 583,038, Dec. 1; Serial No. 607,086, published Aug. 18, 1953.
Soft drinks, Fruit flavored maltless, and concentrates. Wilrick, Inc. 583,175, Dec. 1; Serial No. 642,249, published Sept. 1, 1953.

CLASS 46

Bacon and ham. The E. Kahn's Sons Company. 583,048, Dec. 1; Serial No. 615,647, published June 2, 1953.
Bread. Capital Bakers, Inc. 583,229, Dec. 1; Serial No. 599,225.
Candy. Fine Products Corporation. 583,136, Dec. 1; Serial No. 637,768, published June 9, 1953.
Candy. Price Candy Company. 583,075, Dec. 1; Serial No. 627,701, published July 7, 1953.
Candy. Rand McNally & Company. 583,139, Dec. 1; Serial No. 637,839, published Sept. 1, 1953.
Candy substitute, Sugarless. The Chicago Dietetic Supply House, Inc. 583,211, Dec. 1; Serial No. 645,111, published Aug. 25, 1953.
Canned chiles, pickles, and canned fruits. Clemente Jacques y Cia, S. A. 583,146, Dec. 1; Serial No. 638,193, published July 28, 1953.
Canned clam chowder and canned clams. G. N. Burcham. 583,203, Dec. 1; Serial No. 644,387, published July 14, 1953.
Canned dog food and canned cat food. Hi-Life Packing Company. 583,202, Dec. 1; Serial No. 644,303, published July 14, 1953.
Canned fruits and canned berries. M. G. Gehlar. 583,116, Dec. 1; Serial No. 635,031, published June 23, 1953.
Canned fruits, canned vegetables, and canned juices. Richmond-Chase Company. 583,066, Dec. 1; Serial No. 622,312, published July 7, 1953.
Canned ham. Atalanta Trading Corporation. 583,118, Dec. 1; Serial No. 635,388, published July 14, 1953.
Canned ham. Atalanta Trading Corporation. 583,119, Dec. 1; Serial No. 635,390, published July 14, 1953.
Canned ham. Atalanta Trading Corporation. 583,120, Dec. 1; Serial No. 635,393, published June 2, 1953.
Canned ham. Atalanta Trading Corporation. 583,121–2, Dec. 1; Serial Nos. 635,394–5, published July 14, 1953.
Canned shrimp, canned raviolis, and canned oysters. Dunbar-Dukate Company, Inc. 241,350, Apr. 24, 1928. Republished Dec. 1.
Canned sweet peas, canned June peas. Waterloo Canning Association. 583,248, Dec. 1; Serial No. 643,988.
Cantaloupes, Fresh, fresh vegetables. McDaniel & Sons. 306,910, renewed Oct. 3, 1953. O. G. Dec. 1.
Chocolate pecans and caramel candy. Brecht Candy Company. 583,098, Dec. 1; Serial No. 632,463, published June 23, 1953.
Coffee. John H. Wilkins Company. 300,478, Jan. 24, 1933. Republished Dec. 1.
Coffee, tea, fresh eggs, etc. Piggly Wiggly Corporation. 583,054, Dec. 1; Serial No. 617,729, published July 28, 1953.
Confection, Frozen. I. C. Parker. 583,241, Dec. 1; Serial No. 632,130.
Cookies. L. B. De Hymel. 583,103, Dec. 1; Serial No. 633,491, published July 7, 1953.
Eggs, Fresh shell. Washington Co-Operative Farmers Association. 583,057, Dec. 1; Serial No. 619,487, published June 2, 1953.
Feed and dog food. Marshall Mill & Elevator Company. 583,143, Dec. 1; Serial No. 638,005, published June 9, 1953.
Feed, Bird. Petpak Products Company. 583,189, Dec. 1; Serial No. 642,837, published Sept. 8, 1953.
Feeds, Chicken and live stock. G. W. Vunck. 583,072, Dec. 1; Serial No. 626,431, published June 23, 1953.
Flour, particularly pastry flour. General Mills, Inc. 306,257, renewed Sept. 12, 1953. O. G. Dec. 1.
Flour, Wheat. C. B. Stout. 583,033, Dec. 1; Serial No. 586,608, published June 23, 1953.
Food compound, Concentrated. Mutual Products Co. 583,095, Dec. 1; Serial No. 631,994, published June 2, 1953.
Food, Dog. E. F. Solomon. 583,030, Dec. 1; Serial No. 543,664, published June 2, 1953.
Fresh produce. Smith-Douglass Company, Inc. 583,145, Dec. 1; Serial No. 638,122, published June 2, 1953.
Fruits, Fresh citrus. Consolidated Citrus Growers. 583,117, Dec. 1; Serial No. 635,287, published June 2, 1953.
Fruits, Fresh citrus. Polk County Citrus Sub-Exchange. 583,173, Dec. 1; Serial No. 641,740, published June 2, 1953.
Ice cream. Worthmor Ice Cream Co. 583,144, Dec. 1; Serial No. 638,029, published July 14, 1953.
Ice cream and sherbet. Chism Ice Cream Co., Inc. 583,168, Dec. 1; Serial No. 641,125, published July 28, 1953.
Jellies, fruit preserves, peanut butter, etc. Nathan Rosenblum & Co. 440,293, Aug. 24, 1948. Republished Dec. 1.
Lamb puppy food, Strained, strained liver puppy food, strained beef puppy food. M. Loring. 583,238, Dec. 1; Serial No. 631,165.
Lemon juice base for use in cooking and baking, Imitation. J-A Corporation. 583,230, Dec. 1; Serial No. 621,559.
Lentils, dried peas and dried beans. Michigan Bean Company. 583,051, Dec. 1; Serial No. 617,047, published July 28, 1953.
Mayonnaise, fruit preserves and jelly. T. J. Aycock, Jr. 583,034, Dec. 1; Serial No. 591,448, published June 9, 1953.
Organic mineral food or food supplement. H. H. Barr. 306,319, renewed Sept. 12, 1953. O. G. Dec. 1.
Peppers, Sweet, cucumber salad. Motheg's Food Products, Inc. 583,086, Dec. 1; Serial No. 629,810, published Aug. 25, 1953.
Potato chips. The Mann Company of Washington. 583,032, Dec. 1; Serial No. 573,885, published Feb. 20, 1951.
Rice. M. D. Green. 583,040, Dec. 1; Serial No. 607,546, published July 28, 1953.
Rice. Rice Growers Association of California. 583,129, Dec. 1; Serial No. 636,308, published July 7, 1953.
Sausage. The E. Kahn's Sons Company. 583,039, Dec. 1; Serial No. 607,172, published July 28, 1953.
Vegetables, Fresh, and melons. Comer Produce Company. 583,192, Dec. 1; Serial No. 642,948, published July 28, 1953.
Vegetables, Frozen. Little America Frozen Foods, Inc. 583,064, Dec. 1; Serial No. 621,474, published July 28, 1953.

CLASS 47

Wines. Compania Mata Union de Bodegas Andaluzas S. A. 305,196, renewed Aug. 8, 1953. O. G. Dec. 1.
Wines. Wilen Brothers, Inc. 583,058, Dec. 1; Serial No. 620,638, published Sept. 1, 1953.
Wines. Wine Growers Guild. 583,044, Dec. 1; Serial No. 610,881, published Aug. 11, 1953.

CLASS 48

Beer. Bavarian Brewing Company. 583,028, Dec. 1; Serial No. 519,719, published Sept. 1, 1953.
Beer. G. Sedlmayr. 583,140, Dec. 1; Serial No. 637,846, published Sept. 1, 1953.
Beer. G. Helleman Brewing Co. 63,492, June 25, 1907. Corrected. O. G. Dec. 1.
Beer. Jacob Hornung Brewing Co. 583,062, Dec. 1; Serial No. 621,207, published Sept. 1, 1953.

CLASS 49

Gin. Bohemian Distributing Co. Ltd. 321,912, Feb. 19, 1935. Republished Dec. 1.
Whisky. P. F. Latimer. 308,783, renewed Dec. 19, 1953. O. G. Dec. 1.
Whisky. John Walker & Sons, Limited. 307,393, renewed Oct. 24, 1953. O. G. Dec. 1.
Whisky, Scotch. J. & G. Stewart Limited. 583,102, Dec. 1; Serial No. 633,337, published Sept. 1, 1953.

CLASS 50

Linings and cushions for rugs and carpets. Charles Lachman Co., Inc. 583,042, Dec. 1; Serial No. 609,485, published June 9, 1953.

CLASS 51

Bath crystals, bath oil, and personal deodorant. Flomar Products Company. 583,076, Dec. 1; Serial No. 627,936, published Aug. 4, 1953.
Beauty preparation. The Erno Laszlo Company. 583,080–1, Dec. 1; Serial Nos. 628,492–3, published Aug. 4, 1953.
Beauty preparations. The Erno Laszlo Company. 583,079, Dec. 1; Serial No. 628,490, published Aug. 4, 1953.
Beauty preparations. The Erno Laszlo Company. 583,082, Dec. 1; Serial No. 628,499, published Aug. 4, 1953.
Cosmetic cream. Elizabeth Arden, Inc. 309,323, renewed Jan. 9, 1954. O. G. Dec. 1.
Cosmetics. S. M. Spector. 583,177, Dec. 1; Serial No. 642,314, published Aug. 4, 1953.
Deodorant, shaving lotion, and after shave stick. Swiss Pine Importing Co., Inc. 583,184, Dec. 1; Serial No. 642,578, published Aug. 4, 1953.
Face powder, lipstick, rouge, etc. Samuel Bonat & Bros. 299,633, renewed Dec. 13, 1952. O. G. Dec. 1.
Hair tinting rinses. E. N. Baum. 359,820, Aug. 30, 1938. Republished Dec. 1.
Perfume and cologne. Les Parfums de Dana, Inc. 583,110, Dec. 1; Serial No. 634,146, published Aug. 11, 1953.
Perfume and cologne. Les Parfums de Dana, Inc. 583,111, Dec. 1; Serial No. 634,147, published Aug. 4, 1953.
Rouge, face, and toilet powders. M. Monin. 95,551, re-renewed Feb. 24, 1954. O. G. Dec. 1.

CLASS 52

Cleaner and descaler, Metal. The Pennsylvania Salt Manufacturing Company. 583,070, Dec. 1; Serial No. 625,028, published Sept. 8, 1953.
Cleaning compound. Economics Laboratory, Inc. 583,227, Dec. 1; Serial No. 538,382.
Cleaning compounds. Wade, Wenger & Associates, Inc. 583,083, Dec. 1; Serial No. 628,798, published Sept. 8, 1953.
Compounded synthetic detergent. H. E. Little. 583,060, Dec. 1; Serial No. 620,895, published Aug. 25, 1953.
Soap. Charles Antell, Inc. 583,105, Dec. 1; Serial No. 633,705, published Sept. 8, 1953.
Soap, Toilet. Iowa Soap Company. 308,577, renewed Dec. 12, 1953. O. G. Dec. 1.

CLASS 100

Consulting engineering services rendered in the field of accident prevention. R. E. Benshoof. 583,223, Dec. 1; Serial No. 628,139, published Sept. 1, 1953.

CLASS 102

General insurance brokerage services. D. K. MacDonald & Company, Inc. 583,225, Dec. 1; Serial No. 634,477, published July 14, 1953.

CLASS 103

Dry cleaning of textile articles. N. Root. 583,221, Dec. 1; Serial No. 613,144, published Sept. 1, 1953.
Service, maintenance, and repair of internal combustion engines, etc. The Euclid Road Machinery Co. 583,222, Dec. 1; Serial No. 624,402, published Sept. 1, 1953.

CLASS 106

Custom molding of articles from moldable plastic material. Chicago Molded Products Corporation. 583,224, Dec. 1; Serial No. 633,696, published Sept. 1, 1953.
Treating rayon and acetate suiting fabrics. R. W. Bates Piece Dye Works, Inc. 583,226, Dec. 1; Serial No. 642,339, published Sept. 1, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Barber, Merlin E., Decatur, Ill. Compression by-pass and wrench device. Re. 23,748, Dec. 1.

Brunk, Leslie L., assignor to Renberles Products Co., Detroit, Mich. Distributor plate. Re. 23,749, Dec. 1.

Burkhardt, George R., Chicago, Ill. Railway rail. Re. 23,745, Dec. 1.

Dick, John R.: *See*—
Killinger, Arden H., and Dick.

Fort Dodge Laboratories, Inc., assignee: *See*—
Killinger, Arden H., and Dick.

Killinger, Arden H., and J. R. Dick, assignors to Fort Dodge Laboratories, Inc., Fort Dodge, Iowa. Vaccine and manufacturing the same. Re. 23,746, Dec. 1.

Kirsten, Hugo R., Brooklyn, N. Y. Lock buckle. Re. 23,747, Dec. 1.

Renberles Products Co., assignee: *See*—
Brunk, Leslie L.

LIST OF DESIGN PATENTEES

Aberman, Sheldon J., Miami Beach, Fla. Handbag. 170,958, Dec. 1.

Aberman, Sheldon J., Miami Beach, Fla. Handbag. 170,959, Dec. 1.

Arvin Industries, Inc., assignee: *See*—
Wagner, Franz.

Barth, Robert M., Pelham Manor, and H. G. Bergstrom, New Rochelle, assignors to The F R Corporation, New York, N. Y. Photographic enlarger or similar article. 170,960, Dec. 1.

Bergstrom, Harold G.: *See*—
Barth, Robert M., and Bergstrom.

Blish, Matthew B., Oak Park, Ill. Key holder or similar article. 170,961, Dec. 1.

Bloch, Jack, assignor to Foster Grant Co. Inc., Leominster, Mass. Front for sunglass frames or the like. 170,962, Dec. 1.

Chernow, Michael, New York, N. Y. Earring or similar article. 170,963, Dec. 1.

Clark, James T., Fort Morgan, Colo. Spark plug gapping tool. 170,964, Dec. 1.

Claus, Earl W., Kirkwood, assignor to Shampaine Company, St. Louis, Mo. Physician's utility cabinet. 170,965, Dec. 1.

Claus, Earl W., Kirkwood, assignor to Shampaine Company, St. Louis, Mo. Physician's instrument cabinet. 170,966, Dec. 1.

Claus, Earl W., Kirkwood, assignor to Shampaine Company, St. Louis, Mo. Physician's instrument cabinet. 170,967, Dec. 1.

Claus, Earl W., Kirkwood, assignor to Shampaine Company, St. Louis, Mo. Physician's instrument cabinet. 170,968, Dec. 1.

Clough, Carroll C., Seattle, Wash. Cement transport trailer. 170,969, Dec. 1.

Coro, Inc., assignee: *See*—
Katz, Adolph.

D'Arbeloff, Vladimir A., Riverside, Conn. Belt. 170,970, Dec. 1.

Del Mas, Christy M., assignor to M. P. Grace, New York, N. Y. Closure for toothpaste tubes or the like. 170,971, Dec. 1.

Elmco Corporation, The, assignee: *See*—
Schwartz, Daniel M.

F R Corporation, The, assignee: *See*—
Barth, Robert M., and Bergstrom.

Formica Company, The, assignee: *See*—
Stevens, Clifford B.

Foster Grant Co. Inc., assignee: *See*—
Bloch, Jack.

Fox, Herman H., assignee: *See*—
Mayer Robert.

Gaylord, James K., assignor to Gaylord Products, Incorporated, Chicago, Ill. Wheel trim hubcap. 170,972, Dec. 1.

Gaylord Products, Incorporated, assignee: *See*—
Gaylord, James K.

General Flexware Corp., assignee: *See*—
Rioux, Eugene O.

Goldman, Neal, New York, N. Y., assignor to The International Silver Co., Meriden, Conn. Cutlery case or similar article. 170,973, Dec. 1.

Gorham, Marie L., Santa Barbara, Calif. Combination dispenser and disposal box. 170,974, Dec. 1.

Grace, Michael P., assignee: *See*—
Del Mas, Christy M.

Grasso, James V., assignor to Inland Manufacturing Company, Omaha, Nebr. Radiator flow test machine. 170,975, Dec. 1.

Grasso, James V., assignor to Inland Manufacturing Company, Omaha, Nebr. Flow test machine for radiators. 170,976, Dec. 1.

Hajos, Joseph L., Bronx, N. Y., and K. Speck, Palisades Park, assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Watch band or similar article. 170,977, Dec. 1.

Hajos, Joseph L., Bronx, N. Y., and K. Speck, Palisades Park, assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Watch band or similar article. 170,978, Dec. 1.

Hardy, William H., River Edge, N. J. Handbag. 170,979, Dec. 1.

Hardy, William H., River Edge, N. J. Handbag. 170,980, Dec. 1.

Inland Manufacturing Company, assignee: *See*—
Grasso, James V.

International Silver Co., The, assignee: *See*—
Goldman, Neal.

Kane, David, San Antonio, Tex. Pair of binoculars. 170,981, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,982, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,983, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,984, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,985, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,986, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,987, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,988, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,989, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,990, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,991, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a necklace or the like. 170,992, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,993, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,994, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,995, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,996, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,997, Dec. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 170,998, Dec. 1.

Kreisler, Jacques, Manufacturing Corporation, assignee: *See*—
Hajos, Joseph L., and Speck.

La Forte, Michael J., Park Ridge, assignor to Vaughan Mfg. Co., Chicago, Ill. Bar tool. 170,999, Dec. 1.

Levine, Louis, New York, N. Y. Combined food server and tongs therefor. 171,000, Dec. 1.

Mayer, Robert, assignor to H. H. Fox, New York, N. Y. Combined drinking cup, toothbrush, and toothpaste holder. 171,001, Dec. 1.

Molla, Charles P., New Hyde Park, N. Y. Chair. 171,002, Dec. 1.

Molla, Charles P., New Hyde Park, N. Y. Chair. 171,003, Dec. 1.
Motorola, Inc., assignee: *See*—
Reinecke, Jean O.
Nolin, Paul G., Cohoes, N. Y. Combined wrist watch case and a watch band. 171,004, Dec. 1.
Nolin, Paul G., Cohoes, N. Y. Combined wrist watch case and watch band. 171,005, Dec. 1.
Nolin, Paul G., Cohoes, N. Y. Combined watch case and watch band. 171,006, Dec. 1.
Peabody, John A., Sr., Auburn, Wash. Trundle toy. 171,007, Dec. 1.
Peterson, James A., Yorkville, Ill. Bottle holder. 171,008, Dec. 1.
Reinecke, Jean O., Oak Park, assignor to Motorola, Inc., Chicago, Ill. Portable radio. 171,009, Dec. 1.
Reo Motors, Inc., assignee: *See*—
Rosenberg, Paul H.
Rioux, Eugene O., assignor to General Flexware Corp., New York, N. Y. Bottle or similar article. 171,010, Dec. 1.
Rosenberg, Paul H., assignor to Reo Motors, Inc., Lansing, Mich. Coaster wagon wheel. 171,011, Dec. 1.
Sametz, Louis, Westport, Conn. Skirt portion for a shuttlecock or similar article. 171,012, Dec. 1.
Schwartz, Daniel M., assignor to The Elinco Corporation, Salt Lake City, Utah. Motor-transmission unit. 171,013, Dec. 1.
Shampaine Company, assignee: *See*—
Claus, Earl W.
Slaton, Leo R., assignor to Swiss Harmony Inc., Chicago, Ill. Dispenser for cigarettes and the like. 171,014, Dec. 1.
Speck, Kurt: *See*—
Hajos, Joseph L., and Speck.
Stevens, Clifford B., Milwaukee, Wis., assignor to The Formica Company. Sheet of decorative material or the like. 171,015, Dec. 1.
Stiller, Arnold, Elwood, near Melbourne, Victoria, Australia. Lamp. 171,016, Dec. 1.
Swiss Harmony Inc., assignee: *See*—
Slaton, Leo R.
Vaughan Mfg. Co., assignee: *See*—
La Forte, Michael J.
Wagner, Franz, Evanston, Ill., assignor to Arvin Industries, Inc., Columbus, Ind. Table. 171,017, Dec. 1.
Zoffer, Robert H., New York, N. Y. Infant's bathtub. 171,018, Dec. 1.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A. S. P. Chemical Company Limited, assignee: *See*—
Walsh, Conrad L., Hawes, and Foulger.
Abbott, William G., Jr., Milford, N. H. Centrifuge. 2,661,150, Dec. 1.
Abrams, Maurice, Newark, N. J. Time controlled demothlizing device. 2,660,828, Dec. 1.
Ackermann, Karl, Mannheim, and L. Schlecht, Ludwigshafen (Rhine), assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Germany. Porous electrode plates and making such articles. 2,661,387, Dec. 1.
Adcock, Herbert V., Zanesville, Ohio, assignor to McGraw Electric Company, Milwaukee, Wis. Electrical coil. 2,661,446, Dec. 1.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Schwab, Arthur W., Evans, and Cooney.
Ajero, Fortunato S., Chicago, Ill., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y. Seeder and planter apparatus. 2,661,124, Dec. 1.
Aktiebolaget Färe Armaturfabrik, assignee: *See*—
Salomonsson, Sven G.
Aladdin Industries, Incorporated, assignee: *See*—
Engh, Walter B.
Allavena, Riccardo, Milan, Italy. Dismountable packaging box. 2,661,110, Dec. 1.
Alldredge, Marshall H., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Idler arm. 2,660,907, Dec. 1.
Allen, John H., Baltimore, assignor to The Glenn L. Martin Company, Middle River, Md. Up and down lock mechanism for retractable landing gear for aircraft. 2,661,171, Dec. 1.
Allen, William L., Searcy, Ark. Shock absorber testing and indicating apparatus. 2,660,879, Dec. 1.
Allinquant, Fernand S., Paris, France. Resilient shock-absorbing suspension device. 2,661,207, Dec. 1.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Reichert, Harold E.
Allmänna Svenska Elektriska Aktiebolaget, assignee: *See*—
Bergknut, Gunnar P., and Klessling.
Allred, Albert R.: *See*—
Allred, William R., J. C., and A. R.
Allred, John C.: *See*—
Allred, William R., J. C., and A. R.
Allred, William R., J. C., and A. R., Madera, Calif. Hot beverage unit for motor vehicles. 2,661,015, Dec. 1.
Alstadt, Benjamin, and H. Sappey, New York, N. Y. Infant feeding means. 2,661,001, Dec. 1.
Altgelt, Herman E., assignor to Deere & Company, Moline, Ill. Beet topper. 2,660,853, Dec. 1.
American Brake Shoe Company, assigne: *See*—
Wilson, Rosser L.
American Can Company, assignee: *See*—
Livacich, John T.
Livacich, John T., and De Gear.
Reid, George C., and Jacobs.
Woolford, Custis S., and Socke.
American Cyanamid Company, assignee: *See*—
Salzman, Charles F., Jr.
American Fixture and Manufacturing Co., assignee: *See*—
Wolna, Benjamin A., and Richards.
American Smelting and Refining Company, assignee: *See*—
Lebedeff, Yurii E., and Klein.
Anderson, David G., Jamestown, N. Y. Hook guard. 2,660,871, Dec. 1.
Anderson, George, Walla Walla, Wash. Punchboard chance counting punch means. 2,661,156, Dec. 1.
Anderson, James H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Blower blade fastening device. 2,661,147, Dec. 1.
Appleton, Henry B., and P. F. Klebl, assignors to L. B. Holliday & Company, Limited, Deighton, Huddersfield, England. Improving the brightness of textile materials and product. 2,661,305, Dec. 1.
Armour and Company, assignee: *See*—
Sifferd, Robert H.
Armstrong Rubber Company, The, assignee: *See*—
Walsh, James A.
Arneson, Edwin L., Morris, assignor to Morris Paper Mills, Chicago, Ill. Article carrier. 2,661,140, Dec. 1.
Arnold, George B.: *See*—
Skelton, William E., Hess, Arnold, and Mahan.
Artisan Novelty Company, assignee: *See*—
Black, Howard M.
Ashford, Leonard F., Philadelphia, Pa. Article handling apparatus. 2,661,100, Dec. 1.
Ashkenas, Irving L., Los Angeles, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Aircraft control stick force linkage. 2,661,169, Dec. 1.
Atkinson, Joseph, London, England. Forming blade roots. 2,660,779, Dec. 1.
Atkinson, Peter D.: *See*—
Hemingway, Arthur V., and Atkinson.
Aurora Research Industries, Inc., assignee: *See*—
McDonald, Dan.
Automatic Electric Laboratories, Inc., assignee: *See*—
Molnar, Imre.
Avco Manufacturing Corporation, assignee: *See*—
Ajero, Fortunato S.
Aversten, Karl J., Lidingo, assignor to Svenska Aktiebolaget Gasaccumulator, Lidingo, near Stockholm, Sweden. Transportable welding apparatus. 2,661,428, Dec. 1.
Avery-Hardoll Limited, assignee: *See*—
Fraser, John.
Azorlosa, Julian L., assignor to Hercules Powder Company, Wilmington, Del. Coating paper and product resulting therefrom. 2,661,308, Dec. 1.
Azorlosa, Julian L., assignor to Hercules Powder Company, Wilmington, Del. Coated paper and producing same. 2,661,309, Dec. 1.
Baas, Theodore J., Westbrook, Minn. Device for setting carburetor floats. 2,660,801, Dec. 1.
Babcock & Wilcox Company, The, assignee: *See*—
Brister, Paul M.
Bables, John K., Los Angeles, Calif. Vehicle wheel containing shock absorbing springs. 2,661,043, Dec. 1.
Bachmann Uxbridge Worsted Co., Inc., assignee: *See*—
Robinson, Robert D., and Jacques.
Badische Anilin- & Soda-Fabrik Aktiengesellschaft, assignee: *See*—
Ackermann, Karl, and Schlecht.
Badmaieff, Alexis, Los Angeles, Calif. Automatic film selecting method and system. 2,661,164, Dec. 1.
Baily, Edgar W., Purley, assignor to The Paterson Engineering Company, Limited, Kingsway, England. Means for adding solid materials to liquid. 2,661,244, Dec. 1.
Baker, Chester H.: *See*—
Seaton, Harold E., and Baker.
Baker & Co., Inc., assignee: *See*—
Lincoln, Arnold J., and Courtwright.
Baker, Cornelius M.: *See*—
Dyne, James H., and Baker.
Balch, Theodore H., Salem, assignor to Sel-Set Company, West Salem, Oreg. Switch actuator. 2,661,402, Dec. 1.
Balch, Theodore H., Salem, and R. F. Van De Mark, assignors to Sel-Set Company, West Salem, Oreg. Remote control of sawmill setworks by electromechanical means. 2,661,036, Dec. 1.
Balicki, Marian: *See*—
Osti, Aldo P., and Balicki.
Ball, Thomas M., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Carburetor. 2,661,196, Dec. 1.
Balsiger, Harold E., assignor to Landis Tool Company, Waynesboro, Pa. Precision feed adjustment. 2,660,842, Dec. 1.
Bank of Commerce and Trusts, executor: *See*—
Peple, Gustave A., Jr.
Barbaras, Glen D., Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Aqueous asbestos dispersion and producing same. 2,661,287, Dec. 1.
Barbaras, Glen D., Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Forming asbestos products from polyvalent ion dispersed asbestos. 2,661,288, Dec. 1.
Barber Harry J., assignor to May & Baker Limited, Dagenham, England. Hexamethylene-1:6-bis-trimethylammonium bi artrate. 2,661,370, Dec. 1.
Barlow, Benjamin W., Wembley, and A. E. Barnes, Greenford, assignors to D. Napier & Son Limited, London, England. Connecting rod end bearing assembly. 2,661,253, Dec. 1.
Barnard, Paul J., Rockford, Ill. Rubber golf tee with hollow base. 2,661,213, Dec. 1.
Barnes, Alfred E.: *See*—
Barlow, Benjamin W., and Barnes.
Barnett, Louis H., and H. Brin, assignors to Loma Plastics Inc., Fort Worth, Tex. Breadbox. 2,661,114, Dec. 1.
Barnhart, Vern A., Athens, Ohio. Hollow masonry building unit. 2,660,878, Dec. 1.

Barr, Roy E., Childress, Tex. Means for forming molds. 2,660,768, Dec. 1.

Barret, William M., assignor to Engineering Research Corporation, Shreveport, La. Transmitting and receiving apparatus and method for electromagnetic prospecting. 2,661,466, Dec. 1.

Bauer, Frederick, Wausau, Wis. Barber's comb. 2,661,007, Dec. 1.

Bauer, Hugo: *See*—
Mullan, Daniel, and Bauer.

Bauer, Klaus: *See*—
Hiltmann, Rudolf, and Bauer.

Baughman, Charles R., Flatt, Ill., assignor to International Harvester Company. Caster wheel lock. 2,660,940, Dec. 1.

Baum, Velma H., Lancaster, Pa. Waterproof laminated mattress pad. 2,660,735, Dec. 1.

Bausch & Lomb Optical Company, assignee: *See*—
Benford, James R.
Stegeman, Raymond F. E.
Turner, Arthur F.

Beach, Arthur W., Chicago, Ill. Padlock for use with hasps. 2,660,872, Dec. 1.

Beane, Ratio R., assignee: *See*—
Johnson, John M.

Beck, Howard G., assignor to The General Tire and Rubber Company, Akron, Ohio. Apparatus for assembling an elastic tubular rubber insert under radial compression between an outer rigid tube and an inner rigid core. 2,660,780, Dec. 1.

Beckberger, La Vern H., East Chicago, Ind., and R. C. Woerner, Houston, Tex., assignors to Sinclair Refining Company, New York, N. Y. Catalytic reforming process. 2,661,320, Dec. 1.

Beckberger, La Vern H., East Chicago, Ind., and R. C. Woerner, Houston, Tex., assignors to Sinclair Refining Company, New York, N. Y. Process. 2,661,383, Dec. 1.

Beckers, Albert E., East Orange, assignor to National Union Radio Corporation, Orange, N. J. Dark trace cathode-ray tube. 2,661,437, Dec. 1.

Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Mechanical color filter device for use in sequential television systems. 2,661,391, Dec. 1.

Bell, David A., Birmingham, assignor to British Telecommunications Research Limited, Taplow, England. Mechanical scanning device. 2,661,393, Dec. 1.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Hillsinger, Harry A., Jr.
Mueller, George E.
Walsh, Edward J.

Bendix Aviation Corporation, assignee: *See*—
Digby, James J.

Benford, James R., Irondequoit Township, Monroe County, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Phase contrast apparatus for metallographic microscopes. 2,660,923, Dec. 1.

Bennett, Foster C., assignor to The Dow Chemical Company, Midland, Mich. Die casting. 2,660,769, Dec. 1.

Bennett, Jeanne H., Chicago, Ill. Artificial waterproof hair ornament. 2,660,826, Dec. 1.

Bennett, Maurice D., and F. T. Zizzi, assignors to The Yale & Towne Manufacturing Company, Stamford, Conn. Combination lock. 2,660,873, Dec. 1.

Bennighof, Ralph R., Ashland, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Housing closure. 2,661,118, Dec. 1.

Benson, Ernest H., Kansas City, Mo. High-pressure container with adapter for discharge apertures. 2,661,113, Dec. 1.

Bent, Arthur J., Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company. Fluid pressure control apparatus for free piston machines. 2,661,020, Dec. 1.

Berens, Gregory E., and C. Colbert, Dayton, Ohio. Magnetic recording. 2,661,397, Dec. 1.

Berger, Harold, Bronx, N. Y. Automatic fluid level signal for automobiles. 2,661,411, Dec. 1.

Bergknut, Gunnar P., and C. J. E. Klessling, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Three-phase commutator motor with speed regulation by brush displacement. 2,661,435, Dec. 1.

Bergstrom, Albert L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Cone rib finishing machine. 2,660,840, Dec. 1.

Biddinger, Guy R.: *See*—
Darrow, Merritt I., Biddinger, and Patterson.

Bidinger, Franz L., Kenosha, Wis. Record playing device. 2,661,217, Dec. 1.

Biefeld, Lawrence P., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Flotation equipment. 2,660,736, Dec. 1.

Bielkowicz, Piotr, London, England, assignor to Z. M. Ciolkosz, Swarthmore, Pa. Fastening device. 2,660,775, Dec. 1.

Bills, Max E., Gary, Ind., assignor to United States Steel Corporation. Apparatus for connecting metal coating rolls with a driving mechanism. 2,660,979, Dec. 1.

Birmingham, John N., Nutley, N. J., assignor to Celanese Corporation of America, New York, N. Y. Advancing reel. 2,660,808, Dec. 1.

Bishop, William H., Birmingham, England. Sliding roof for vehicles. 2,661,234, Dec. 1.

Black, Howard M., Los Angeles, assignor to Artisan Novelty Company, Gardena, Calif. Treadmill for walking toys. 2,660,811, Dec. 1.

Black, Sivalls & Bryson, Inc., assignee: *See*—
Coffman, Robert S., and Simms.

Blackburn, Charles I., Hudson, and K. H. Percy, assignors to J. B. Hudak, Twinsburg, Ohio. Keyhole illuminator. 2,661,417, Dec. 1.

Blakeslee, Charles R., Hollydale, Calif. Harpoon gun. 2,660,993, Dec. 1.

Blanken, Maurice C., Staten Island, N. Y. Motor vehicle seat structure. 2,661,047, Dec. 1.

Bloomer Bros. Company, assignee: *See*—
Inman, William H.

Bloxham, Ralph H., near Theodore, Ala. Block ice-cream slicer. 2,660,962, Dec. 1.

Boast, Warren B., Ames, Iowa, and J. D. Ryder, Champaign, Ill., assignors to Iowa State College Research Foundation, Inc., Ames, Iowa. Wattmeter-varmeter. 2,661,457, Dec. 1.

Boeing Airplane Company, assignee: *See*—
Walker, Robert E.

Bombarger, Glen E., Milwaukee, Wis. Collapsible fish box. 2,661,116, Dec. 1.

Bond, Donald C., Northbrook, assignor to The Pure Oil Company, Chicago, Ill. Increasing permeability of sands in oil, gas, and injection wells by forming solids in the strata. 2,661,066, Dec. 1.

Bonmartini, Giovanni, Rome, Italy, assignor to "E S T" Etablissements Sciences Techniques, Vaduz, Principality of Liechtenstein. Endless track composed of rubber bonded to flexible metal bands. 2,661,249, Dec. 1.

Bonmartini, Giovanni, Rome, Italy, assignor to "E S T" Etablissement Sciences Techniques, Vaduz, Liechtenstein. Pneumatic endless track for vehicles and the like. 2,661,250, Dec. 1.

Bonmartini, Giovanni, Rome, Italy, assignor to "E S T" Etablissement Sciences Techniques, Vaduz, Liechtenstein. Track device for vehicles and the like. 2,661,251, Dec. 1.

Borberg, Willy, North White Plains, N. Y. assignor to General Precision Laboratory Incorporated. Motion-picture projector, including shutter structure for preheating film. 2,660,917, Dec. 1.

Borg-Warner Corporation, assignee: *See*—
Lauck, John A.
Wasielewski, Eugene W.

Borgeaud, Gaston, and J. Waldvogel, assignors to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland. Twin-bolster cradle on bogies for railway rolling stock. 2,660,960, Dec. 1.

Borgerd, William F.: *See*—
Tipton, Phillip R., and Borgerd.

Borgerd, William F., Evansville, Ind., assignor to International Harvester Company. Outside mounted air conditioning unit. 2,660,867, Dec. 1.

Bosch, Carl, Arlington, assignor to Chatham Electronics Corporation, Newark, N. J. Measuring instrument with electrostatic return torque. 2,661,456, Dec. 1.

Boss, Friedhelm: *See*—
Keinath, Johannes, Kuhn, Boss, and Leitz.

Bowes, Leslie H., assignor to Morton Salt Company, Rittman, Ohio. Check weigher. 2,661,201, Dec. 1.

Bowman, Wesley E.: *See*—
Lockwood, David W., and Bowman.

Brace, George A., Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio. Flexible hose. 2,661,025, Dec. 1.

Brace, George A., Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio. Propelling handle and filter bag assembly for vacuum cleaners. 2,661,077, Dec. 1.

Brashear, Joseph M., Chicago, Ill., assignor to Inland Steel Company. Furnace end structure. 2,661,198, Dec. 1.

Breeden, James R., Madisonville, Ky. Apparatus for widening roadways. 2,660,937, Dec. 1.

Bréjoux, Roger L.: *See*—
Delamarre, Emile J., and Bréjoux.

Briggs, George L., Oneida, assignor to Briggs Research & Development, Inc., White Plains, N. Y. Device for enhancing the vaporization of a fuel component of a flowing fuel-air mixture. 2,661,269, Dec. 1.

Briggs Research & Development, Inc., assignee: *See*—
Briggs, George L.

Brigham, Ward F.: *See*—
Young, Andrew P., and Brigham.

Brin, Harris: *See*—
Barnett, Louis H., and Brin.

Brister, Paul M., Madison, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y. Fluid mixing and separating apparatus. 2,661,075, Dec. 1.

British Cast Iron Research Association, The, assignee: *See*—
Morrogh, Henton.

British Oxygen Company Limited, The, assignee: *See*—
Webster, Thomas J.

British Telecommunications Research Limited, assignee: *See*—
Bell, David A.

Britten, Edwin F., III, Short Hills, N. J. Grass trimmer and edger. 2,660,847, Dec. 1.

Broady, Elza E.: *See*—
Hennike, Anthony J., Morris, and Broady.

Brooks, Lewis C., assignor of one-third to I. M. Jones, Milwaukee, Wis. Consumer type container. 2,661,139, Dec. 1.

Brown, Caleb C., Jr., executor: *See*—
Sacrey, Elmer P.

Bryans, Harry C., Three Rivers, Quebec, assignor to Canadian International Paper Company, Montreal, Quebec, Canada. Roll crimping machine. 2,660,846, Dec. 1.

Buckbee, John A., Wellesley, assignor to Raytheon Manufacturing Company, Newton, Mass. Informational storage device. 2,661,442, Dec. 1.

Buckman Laboratories, Inc., assignee: *See*—
Dean, Charles W.

Buffalo Electro-Chemical Company, Inc., assignee: *See*—
Greenspan, Frank P.
McEwen, Robert L., Sheldon, and Schroeder.

Burckel, Christian E., Yonkers, N. Y. Ruling and striping device. 2,660,951, Dec. 1.

Burden, Oscar J., Alliance, Ohio. Apparatus for abrading bisque ware. 2,660,835, Dec. 1.

Burghoff, Louis R., Forestville, assignor to The E. Ingraham Company, Bristol, Conn. Case for timepieces and the like. 2,660,857, Dec. 1.

Burke, John C.: *See*—
Jurist, Alfred E., Burke, and Gaunt.

Burton, Charles G., San Diego, Calif. Projection screen. 2,660,927, Dec. 1.

Busch, Lee S.: *See*—
Swazy, Earl P., Freyer, and Busch.

Bushong, Harry F., assignor to The Studebaker Corporation, South Bend, Ind. Armrest for automobile doors. 2,661,052, Dec. 1.

Butler, John M., Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Lubricating composition. 2,661,335, Dec. 1.

C. D. Patents Limited, assignee: *See*—
Norman, William S.

Caldwell, Carlyle G., Forest Hills, and O. B. Wurzburg, Babylon, assignors to National Starch Products Inc., New York, N. Y. Polysaccharide derivatives of substituted dicarboxylic acids. 2,661,349, Dec. 1.

Caldwell, Leslie M., Rockford, Ill. Sling. 2,661,231, Dec. 1.

California Institute Research Foundation, assignee: *See*—
MacGlashan, William F., Jr.

Calingaert, George, Geneva, assignor to Ethyl Corporation, New York, N. Y. 1,4-dibromo-2,2,3,3-tetrachlorobutane. 2,661,379, Dec. 1.

Callahan, Howard E.: *See*—
Fasold, George A., and Callahan.

Callan, Raymond C., assignor to McLaughlin & Slugg, Milwaukee, Wis. Alternating light flasher for bicycles. 2,661,406, Dec. 1.

Campbell, Earl A., Owosso, Mich. Rocket ship amusement apparatus. 2,661,211, Dec. 1.

Canadian International Paper Company, assignee: *See*—
Bryans, Harry C.

Capblanch, Julian, Barcelona, Spain. Apparatus for constructing posts in the ground. 2,660,862, Dec. 1.

Capell, Robert G., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Compositions comprising bentonite-organic amine compounds in asphalts, tars, or pitches. 2,661,301, Dec. 1.

Carcereny, Juan J., San Vicens dels Horts, Spain. Combined hinge and latch for doors. 2,660,752, Dec. 1.

Carelock, Claude L., assignor of one-half to C. L. Carelock, Jr., Douglas, Ga. Fender attachment for tractor mounted cultivating units. 2,660,941, Dec. 1.

Carelock, Claude L., Jr., assignee: *See*—
Carelock, Claude L.

Carey, Philip, Manufacturing Company, The, assignee: *See*—
Fasold, George A., and Callahan.

Carlson, Boyd N., El Monte, Calif. Door latch. 2,660,765, Dec. 1.

Carlson, George W., Mountain Home, assignor to Robotyper Corporation, Hendersonville, N. C. Unit for translating punched card data. 2,661,154, Dec. 1.

Carroll, Bruce J.: *See*—
Devine, William J., and Carroll.

Cary, Rex H. J.: *See*—
Johnson, William A., and Cary.

Case, J. I., Company, assignee: *See*—
Russell, Stanley D.

Casey, Robert T., Bristol, Conn., assignor, by mesne assignments, to General Electric Company. Electric circuit breaker. 2,661,414, Dec. 1.

Caterpillar Tractor Co., assignee: *See*—
Wagner, Harold H.

Celanese Corporation of America, assignee: *See*—
Birmingham, John N.

Chadwick, Earl L., Houston, Tex. Lawn trimmer. 2,660,854, Dec. 1.

Chamberlain, John, Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Combined flameholder and turning vane. 2,660,839, Dec. 1.

Chamberlin, James A., Toronto, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Means for controlling aircraft in flight. 2,661,170, Dec. 1.

Chapman Dehydrator Co., Inc., assignee: *See*—
Trigwell, William G.

Chapman Forest Utilization, Inc., assignee: *See*—
Chapman, Ralph.

Chapman, Ralph, assignor to Chapman Forest Utilization, Inc., Corvallis, Oreg. Apparatus for forming fiber mats, including deckle boxes with white water return. 2,660,935, Dec. 1.

Chase Bag Company, The, assignee: *See*—
Voss, Edward E.

Chatham Electronics Corporation, assignee: *See*—
Bosch, Carl.

Chesser, Cecil E., Hebron, assignor to Newark Stove Company, Newark, Ohio. Stove and ash discharge means therefor. 2,660,997, Dec. 1.

Chicago Cardboard Company, assignee: *See*—
Drueck, Fred, Jr.

Chicago Telephone Supply Corporation, assignee: *See*—
Daily, Arthur M., and Veatch.

Chrysler Corporation, assignee: *See*—
Ball, Thomas M.
Koskinen, Olavi M.

Cincinnati Butchers' Supply Company, The, assignee: *See*—
Zaenkert, Frederick A.

Cincinnati Milling Machine Co., The, assignee: *See*—
Ernst, Hans.

Ciolkosz, Zbyslaw M., assignee: *See*—
Bielkowicz, Piotr.

Clark, Francis R., Orange, N. J., and C. J. West, Jr., Columbus, Ohio, assignors to 225 Enterprises Inc., Orange, N. J. Machine for preparing fuses. 2,660,845, Dec. 1.

Clark, Morris E., Winslow, Ariz. Airplane wing construction with passage from upper surface to trailing edge. 2,661,167, Dec. 1.

Clausen, Howard F.: *See*—
Walz, Claude W., and Clausen.

Clayton Manufacturing Company, assignee: *See*—
Griswold, Donald G.

Clement, Ernest C., Oak Park, Ill., assignor, by mesne assignments, to United States Automatic Box Machinery Company, Inc., Boston, Mass. Counting and dispensing machine. 2,661,133, Dec. 1.

Cleveland Trust Company, The, executor: *See*—
Heintz, James C.

Clevite Corporation, assignee: *See*—
Jaffe, Hans.
Mumper, James E.

Cobb, Milton L., Kansas City, Mo. Scissors with removable blade sections. 2,660,788, Dec. 1.

Cockrell, Jesse S., Norfolk, Va. Motor vehicle washing pellet reclaiming apparatus. 2,660,744, Dec. 1.

Coffman, Robert S., and H. N. Simms, assignors to Black, Sivalls & Bryson, Inc., Kansas City, Mo. Safety pressure device. 2,661,121, Dec. 1.

Cohen, David M., New York, assignor to G. B. Cohen, Long Beach, N. Y. Umbrella construction. 2,661,011, Dec. 1.

Cohen, George B., assignee: *See*—
Cohen, David M.

Colbert, Charles: *See*—
Berens, Gregory E., and Colbert.

Coleman Company, Inc., The, assignee: *See*—
Hyatt, Edwin C., Lyon, and Swanson.

Columbia Pictures Corporation, assignee: *See*—
Rackett, Gerald F.

Comer, Ann P., Easton, Pa., and R. G. D. Moore, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Diresorcyl sulfoxide and preparing the same. 2,661,376, Dec. 1.

Commercial Controls Corporation, assignee: *See*—
Lambert, Harry L.

Compo Shoe Machinery Corporation, assignee: *See*—
Dodge, Milton L. and A. A.

Conmar Products Corporation, assignee: *See*—
Schenermann, Otto G.

Conner, Joshua C., Jr., assignor to Hercules Powder Company, Wilmington, Del. Production of phenols and acyclic aldehydes. 2,661,375, Dec. 1.

Consolidated Brass Company, assignee: *See*—
Leffler, Earl H.

Container Corporation of America, assignee: *See*—
Hendrickson, Jacob W., Jr.

Cooke, Conrad H.: *See*—
Gordon, Samuel A., Espy, Cooke, and Gertel.

Cooney, Patricia M.: *See*—
Schwab, Arthur W., Evans, and Cooney.

Cooper, Henry G., U. S. Navy. Wheel driving and steering mechanism. 2,661,069, Dec. 1.

Cooper, Nelson D.: *See*—
Kemner, Harry C., and Cooper.

Cooper, Victor J., Writtle, and J. E. A. Nixon, Colchester, assignors to Marconi's Wireless Telegraph Company Limited, London, England. Stabilized thermionic amplifier. 2,661,398, Dec. 1.

Corey, Flournoy, Cedar Rapids, Iowa. Auxiliary spring for automobile leaf springs. 2,661,205, Dec. 1.

Coulson, Bevis P., Jr., Schenectady, N. Y. Flexible ski. 2,661,219, Dec. 1.

Courtaulds Limited, assignee: *See*—
Paul, Harry and Watts.

Courtright, George D.: *See*—
Lincoln, Arnold J., and Courtright.

Covert, Claude J., Glen Rock, N. J., and W. H. Genich, assignors to Racine Confectioners' Machinery Co., Racine, Wis. Machine for continuous, high-production manufacture of candy suckers. 2,660,963, Dec. 1.

Cox, Oscar C., Fort Worth, Tex., assignor to Sears, Roebuck and Co., Chicago, Ill. Garment container and hanger. 2,660,819, Dec. 1.

Crane & Breed Casket Company, The, assignee: *See*—
Slaughter, Bernard J., Jr.

Crenshaw, Orville F., assignee: *See*—
Morgan, Carl E.

Criddle, Edward S., Columbia, Tenn. Removing rust from metal surfaces. 2,661,314, Dec. 1.

Crosby, George A., Park Ridge, and A. I. Ericsson, assignors to Signode Steel Strapping Company, Chicago, Ill. Package binding tool. 2,661,030, Dec. 1.

Crux, Rose, New York, N. Y. Separable shield for rosette making machines. 2,660,777, Dec. 1.

Curry, Robert S., Jr., Baldwin, and P. Halpert, Hempstead, N. Y. assignors to The Sperry Corporation. Servomotor and control system therefor. 2,661,452, Dec. 1.

Curtiss, Frank R., New Haven, Conn. Stapling device. 2,660,725, Dec. 1.

Curtiss-Wright Corporation, assignee: *See*—
Young, Andrew P., and Brigham.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. N-alkyl-9-xanthene-carboxamides, basically substituted derivatives and salts thereof. 2,661,351, Dec. 1.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. N,N-disubstituted 9-xanthenecarboxamides. 2,661,353, Dec. 1.

Cutler-Hammer, Inc., assignee: *See*—
Jochem, Theodore B., and Mekelburg.

Dabo Ltd., assignee: *See*—
Neidhart, Martin, and Koller.

Dailey, Alex, Durham, N. C. Conduit pulling winch. 2,661,187, Dec. 1.

Daily, Arthur M., and J. G. Veatch, Jr., assignors to Chicago Telephone Supply Corporation, Elkhart, Ind. Variable resistor and actuator therefor. 2,661,415, Dec. 1.

Dain, William D., assignor to Econaway Manufacturing Company, Bellevue, Mich. Cutting and splicing apparatus. 2,661,046, Dec. 1.

Daley, Bernard A., Scott Township, Vanderburgh County, Ind., assignor to Servel, Inc., New York, N. Y. Iron-phosphorus brazing compact. 2,661,282, Dec. 1.

Dalin, David, Stenkullen, Ronninge, Sweden. Apparatus for the destructive distillation of oil shale. 2,661,327, Dec. 1.

Daniel, David M., Berkeley, assignor to United Engineering Company, San Francisco, Calif. Roll shifting means for resaw devices. 2,661,033, Dec. 1.

Darrow, Merritt L., Chicago, G. R. Biddinger, Bellwood, and W. J. Patterson, La Grange, assignors to Swift & Company, Chicago, Ill. Removing poultry gizzard linings. 2,660,756, Dec. 1.

Davenport, Edward J., Elkins Park, Pa., assignor to National Union Radio Corporation, Orange, N. J. Cathode-ray tube test device. 2,661,445, Dec. 1.

Davis, Donald K., Winona, Minn., and R. K. Rauh, assignors to Interstate Drop Forge Company, Milwaukee, Wis. Peripheral cutter for multilayer cables. 2,660,783, Dec. 1.

Davis, Francis W., Belmont, Mass. Wheel assembly for suitcases or the like. 2,661,220, Dec. 1.

Davis, Frank G., and M. M. Kennedy, Baltimore, Md. Vegetable slicing and dicing apparatus. 2,661,039, Dec. 1.

Davis, Frank G., Baltimore, Md. Portable rivet remover and setter. 2,661,112, Dec. 1.

Davis, Loren A., assignee: *See*—
Morgan, Carl E.

Davis, Ralph P., Squantum, assignor to Walworth Company, Boston, Mass. Casting apparatus. 2,660,770, Dec. 1.

Davis, Raymond C., and J. T. Marvin, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Making grommets. 2,660,759, Dec. 1.

Dawson, Harry: *See*—
Walsh, John, and Dawson.

Day Company, The, assignee: *See*—
Osgood, Arthur B., and Swanson.

Daystrom Incorporated, assignee: *See*—
Falconer, Robert W.

Dayton Rubber Company, The, assignee: *See*—
Huber, Walter E.
Rockoff, Joseph.

Dazzi, Joachim, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparing adducts. 2,661,359, Dec. 1.

Dazzi, Joachim, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. 2-(2-ethylhexyloxy) ethyl N-butyl phthalate and preparing same. 2,661,367, Dec. 1.

Dean, Charles W., assignor to Buckman Laboratories, Inc., Memphis, Tenn. Slime measuring unit. 2,660,884, Dec. 1.

Deere & Company, assignee: *See*—
Altgelt, Herman E.
Paradise, Louis A.
Walz, Claude W., and Clausen.

Deere Manufacturing Co., assignee: *See*—
Ross, James S.

De Gear, Edward W.: *See*—
Livacich, John T., and De Gear.

De Gonzalez, Carmen A., Caracas, Venezuela. Shoe polishing apparatus. 2,660,749, Dec. 1.

Delamarre, Emile J., Neuilly-sur-Seine, and R. L. Bréjoux, Paris, France. Apparatus for the stabilization of ivory. 2,660,723, Dec. 1.

Delaney, John E., Rhinebeck, assignor to Standard Gage Company, Inc., Poughkeepsie, N. Y. Dial indicator gauge. 2,660,798, Dec. 1.

Del Mar, Bruce E., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Rate of pressure change regulating instrument. 2,660,942, Dec. 1.

De Long, Herbert K., assignor to The Dow Chemical Company, Midland, Mich. Treating electroplated magnesium castings. 2,661,329, Dec. 1.

Deremer, Floyd E., Detroit, assignor to Oldberg Manufacturing Company, Grand Haven, Mich. Silencer or muffler. 2,661,073, Dec. 1.

Detroit Hardware Manufacturing Company, assignee: *See*—
Jewett, Deane N., and R. S.

Detroit Hoist and Machine Company, assignee: *See*—
Western, James A.

Devine, William J., North Plainfield, and B. J. Carroll, Plainfield, N. J. Varicose vein stripper with flexible guide leader. 2,661,003, Dec. 1.

De Vlieg, Charles B., Farmington, H. R. De Vlieg, Grosse Pointe Woods, and C. R. De Vlieg, Birmingham, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Machine for forming predetermined irregular surfaces. 2,660,930, Dec. 1.

De Vlieg, Charles B., Farmington, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Apparatus for milling complex surfaces. 2,660,931, Dec. 1.

De Vlieg, Charles R.: *See*—
De Vlieg, Charles B., H. R., and C. R.

De Vlieg, Howard R.: *See*—
De Vlieg, Charles B., H. R., and C. R.

Dickey, Frank H., Berkeley, assignor to Shell Development Company, Emeryville, Calif. Peresters of peroxycarboxylic acids. 2,661,363, Dec. 1.

Digby, James J., Elmira, assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Engine starter drive. 2,660,891, Dec. 1.

Dings Magnetic Separator Co., assignee: *See*—
Injeski, Stanley G.

Dinken, Jack M., New York, N. Y. Buffet counter and bar. 2,661,258, Dec. 1.

Dion, Gerald J.: *See*—
Dion, Walter G., and G. J.

Dion, Walter G., and G. J., Buffalo, N. Y. Sound and heating apparatus for drive-in theaters. 2,660,943, Dec. 1.

Divíšek, Vladislav, assignor to Prototypa narodni podnik, Brno, Czechoslovakia. Shuttle feeler with weft cutter for replenishment looms. 2,661,027, Dec. 1.

Dodge, Allen A.: *See*—
Dodge, Milton L., and A. A.

Dodge, Milton L., and A. A., Newburyport, assignors to Compo Shoe Machinery Corporation, Boston, Mass. Shoe forming and pressing machine. 2,660,741, Dec. 1.

Dorman, Leonard M., Meadville, Pa., assignor to Talon, Inc. Stop for slide fasteners. 2,660,773, Dec. 1.

Doss, Jerome E., Stuart, Fla. Fuse protected electrical outlet. 2,661,413, Dec. 1.

Doughty, Robert T., assignor to General Motors Corporation, Detroit, Mich. Internal-combustion engine ventilating system. 2,660,987, Dec. 1.

Douglas Aircraft Company, Inc., assignee: *See*—
Del Mar, Bruce E.

Dow Chemical Company, The, assignee: *See*—
Bennett, Foster C.
De Long, Herbert K.

Dowling, Basil B., Skokie, Ill., assignor to International Minerals & Chemical Corporation. Purification of tyrosine. 2,661,371, Dec. 1.

Dowling, John J.: *See*—
Dumble, Paul E. and W. J., and Dowling.

Dreyfus, Jean A., Geneva, Switzerland. Electromechanical relay. 2,661,412, Dec. 1.

Drueck, Fred, Jr., Chicago, Ill., assignor to Chicago Cardboard Company. Folding display rack. 2,661,176, Dec. 1.

Duarry-Serra, Juan, Barcelona, Spain. Rubberizing hollow articles of fibrous material. 2,661,306, Dec. 1.

Dubin, Serrol, and J. Goldberg, Cleveland, Ohio. Tire display. 2,660,823, Dec. 1.

Duesel, Bernard F.: *See*—
Feinstone, Wolffe H., and Duesel.

Dumble, Paul E., Elmsford, W. J. Dumble, New York, and J. J. Dowling, Bellerose, assignors to James McCutcheon & Co., New York, N. Y. Lounge bed with shiftable back. 2,660,734, Dec. 1.

Dumble, William J.: *See*—
Dumble, Paul E. and W. J., and Dowling.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Dyne, James H., and Baker.
Schmidt, Fred W., Jr.
Smith, Harry R.
Talamini, Arthur J., Jr., and Palmer.

Dunnegan, Ted, Jr., and H. M. Ogle, Schenectady, N. Y., assignor to General Electric Company. Strip pickling apparatus and saturable reactor control therefor. 2,661,009, Dec. 1.

Dunning, Ethel S., St. Paul, Minn. Scarf fastener. 2,660,731, Dec. 1.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Barbaras, Glen D.
Ernsberger, Maurice L., and Hill.
Fuller, Mack F., and Van Fossen.
Howard, Edward G., Jr.
Johnson, Charles R., and Schmidt.
Maloney, Norvin G.
Richardson, Graham M.
Searle, Norman E.

Durant, Wilbur G., Pasadena, assignor, by mesne assignments, to Transicold Corporation, Los Angeles, Calif. Refrigeration and air conditioning equipment. 2,660,865, Dec. 1.

Dyne, James H., Packanack Lake, and C. M. Baker, assignors to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Cathode-ray tube coating apparatus. 2,660,978, Dec. 1.

"E S T" Etablissement Sciences Techniques, assignee: *See*—
Bonmartini, Giovanni.

EVG Entwicklungs- und Verwertungsgesellschaft m. b. H., assignee: *See*—
Eisenburger, Kuno.

Ebaloy, Incorporated, assignee: *See*—
Wilcox, Raymond J., and Vihtelic.

Econaway Manufacturing Company, assignee: *See*—
Dain, William D.

Edholm, Harald, Solsidan, Saltsjobaden, Sweden. Container for storing oil and like fluids. 2,661,062, Dec. 1.

Edwin, Emil, Oslo, Norway. Producing pig iron. 2,661,278, Dec. 1.

Ehlke, Glenn H., Chicago, Ill. Loose-leaf binder. 2,661,004, Dec. 1.

Ehrenreich, A. & Cie., assignee: *See*—
Latzen, Josef.

Ehrhardt, Earl V., Altadena, Calif. Holder for fabric, namely diapers. 2,660,772, Dec. 1.

Eisenburger, Kuno, Wels, assignor to EVG Entwicklungs- und Verwertungs gesellschaft m. b. H., Graz, Styria, Austria. Welding head for simultaneously effecting a series of spot welds according to the double spot method. 2,661,416, Dec. 1.

Elsner, Harold, Prangins, Switzerland. Removable anti-skid device for vehicle wheels provided with resilient tires. 2,661,042, Dec. 1.

Electric & Musical Industrial Limited, assignee: *See*—
Lubszynski, Hans G., and Webley.
Sommer, Alfred.

Elias, Peter, Cambridge, Mass. Computing device. 2,661,152, Dec. 1.

Elwert, Otto: *See*—
Schnürle, Adolf, Kopf, Elwert, and Hörz.

Emhart Manufacturing Company, assignee: *See*—
Merrill, Donald G.
Rowe, George E.

Engh, Walter B., Alexandria, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill. Burner and chimney for incandescent mantle lamp. 2,661,418, Dec. 1.

Engineering Research Corporation, assignee: *See*—
Barret, William M.

Englander, Imre A., assignor to Schwitzer-Cummins Company, Indianapolis, Ind. Thermostatically controlled fan. 2,661,148, Dec. 1.

Ericsson, Arvid I.: *See*—
Crosby, George A., and Ericsson.

Ernsberger, Maurice L., and J. W. Hill, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of organic phosphorus compounds, and in particular, of dialkyl phosphites. 2,661,364, Dec. 1.

Ernst, Hans, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Hydraulic feed system. 2,660,985, Dec. 1.

Escure, Marcel M., Bagneux, France. Lathe attachment for progressively cutting a thread. 2,660,737, Dec. 1.

Eskin, Samuel G., Greensburg, Pa., and R. C. Main, Boston, Mass., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa. Diaphragm valve control. 2,661,013, Dec. 1.

Espy, Melvin P.: *See*—
Gordon, Samuel A., Espy, Cooke, and Gertel.

Estes, Margaret A., Victorville, Calif. Animated attachment for record players. 2,660,829, Dec. 1.

Etablissements Merlin & Gerin, assignee: *See*—
Latour, André.

Ethyl Corporation, assignee: *See*—
Calingaert, George.
Grandjean, William B.

Evans, Cyril D.: *See*—
Schwab, Arthur W., Evans, and Cooney.

Evans, James E., Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Process and apparatus for reacting gaseous media in the presence of hot contact material. 2,661,322, Dec. 1.

Evans, John R., Fort Wayne, Ind. Spare tire and wheel carrier. 2,661,130, Dec. 1.

Evans, Leon M., Houston, Tex., assignor to The Texas Company, New York, N. Y. Recording viscosimeter. 2,660,885, Dec. 1.

Ex-Cell-O Corporation, The, assignee: *See*—
Monroe, Charles Z.

Fairbanks, Morse & Co., assignee: *See*—
Tinker, Walter H., and Weber.
Weber, Henry C.

Falconer, Robert W., Lancaster, N. Y., assignor to Daystrom Incorporated, Elizabeth, N. J. Tube delivery apparatus. 2,661,099, Dec. 1.

Falkenberg, Douglass R., Lakewood, Ohio. Cushioning bumper. 2,660,751, Dec. 1.

Falkner, Carl G.: *See*—
Goodbar, Mayo A., Placke, and Falkner.

Fansteel Metallurgical Corporation, assignee: *See*—
Hall, James H.

Farquhar, A. B., Company, assignee: *See*—
Tirrell, George E.

Fasold, George A., Mount Healthy, and H. E. Callahan, Silverton, assignors to The Philip Carey Manufacturing Company, Cincinnati, Ohio. Coating roofing material. 2,661,303, Dec. 1.

Fay, Joseph W. and R. J., Villa Park, assignors to Schulze and Burch Biscuit Company, Chicago, Ill. Stacking and conveying apparatus. 2,661,103, Dec. 1.

Fay, Rudolph J.: *See*—
Fay, Joseph W. and R. J.

Fedders-Quigan Corporation, assignee: *See*—
Osterkorn, Charles L.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Warner, Arthur J., and Gobat.

Feinstone, Wolffe H., Indianapolis, Ind., and B. F. Duesel, assignors to Nepara Chemical Co. Inc., Yonkers, N. Y. 7-substituted dialkyl xanthines and preparing same. 2,661,352, Dec. 1.

Felter, Robert E. L., Baltimore, Md. Removable headrest for vehicles. 2,661,050, Dec. 1.

Ferrill, Thomas M., Jr., Garden City, N. Y. Vehicle signaling. 2,661,070, Dec. 1.

Ferris, Robert G., assignor to Starline Inc., Harvard, Ill. Swivel hanger for cow stall stanchions and the like. 2,661,178, Dec. 1.

Finch, Charles, assignee: *See*—
Luczko, Thomas R.

Finch, Nick, assignee: *See*—
Luczko, Thomas R.

Finkel Umbrella Frame Company, Inc., The, assignee: *See*—
Militano, Vincent.

Fletcher Aviation Corporation, assignee: *See*—
Fletcher, Wendell S.

Fletcher, Orion F., Denver, Colo. Tire pressure gauge. 2,660,890, Dec. 1.

Fletcher, Wendell S., South Pasadena, assignor to Fletcher Aviation Corporation, Pasadena, Calif. Knockdown fuel tank. 2,661,115, Dec. 1.

Flowers, Leonard J.: *See*—
Weinthal, Stanley E. and S. A., and L. J. Flowers.

Flowers, Stanley A.: *See*—
Weinthal, Stanley E. and S. A., and L. J. Flowers.

Fogle, Frank D., Ottawa, Kans. Rock crusher having contained rock screening and cooperating grate means. 2,661,158, Dec. 1.

Folkers, Kern E., Winchester, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Composition containing colloidal methyl ether of methylol melamine and other thermoplastic resins and applying to cellulose textiles. 2,661,262, Dec. 1.

Folkers, Kern E., Winchester, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Improving the resistance to shrinking and felting of fabrics. 2,661,313, Dec. 1.

Folkins, Hillis O., Skokie, and E. Miller and H. Hennig, Evanston, Ill., assignors, by mesne assignments, to Food Machinery and Chemical Corporation, New York, N. Y. Production of carbon disulfide. 2,661,267, Dec. 1.

Food Machinery and Chemical Corporation, assignee: *See*—
Folkins, Hillis O., Miller and Hennig.
MacFayden, Kenneth W., and Jaffa.

Fornaro, Frank: *See*—
Morse, Earl P., and Fornaro.

Forschner, Conrad J., New York, N. Y. Coffee maker. 2,660,948, Dec. 1.

Forschner, Conrad J., New York, N. Y. Beverage brewing machine. 2,660,947, Dec. 1.

Forton, Harvey P., San Lorenzo, Calif. Ash tray. 2,661,006, Dec. 1.

Foster, Newton C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Applying a completely polymerizable thermosetting resinous composition to an electrical member. 2,661,307, Dec. 1.

Foulger, Frank: *See*—
Walsh, Conrad L., Hawes, and Foulger.

Fowler, Alexander, assignor to Hercules Electric & Mfg. Co., Inc., Brooklyn, N. Y. Feeding of magnetic sheet material. 2,661,208, Dec. 1.

Fox, Homer M., Bartlesville, Okla., assignor to Phillips Petroleum Company. Viscosity compensating variable-area fuel nozzle. 2,661,243, Dec. 1.

Framhein, Herbert J., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Close coupled truck. 2,661,183, Dec. 1.

Francis, Leo H., and N. E. Rodgers, Appleton, Wis., assignors to Western Condensing Company, San Francisco, Calif. Whey products and manufacture. 2,661,295, Dec. 1.

Fraser, John, assignor to Avery-Hardoll Limited, Tolworth, Surbiton, England. Apparatus for dispensing liquids. 2,661,135, Dec. 1.

Frei, Frederick, Los Angeles, Calif. Detecting the source and analyzing the flow of water intrusions in oil wells. 2,660,887, Dec. 1.

French, Charles W., Alhambra, Calif., assignor to The Studebaker Corporation, South Bend, Ind. Vent door control mechanism. 2,660,944, Dec. 1.

French, Oliver S., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Idler arm. 2,660,906, Dec. 1.

French, Oliver S., Detroit, and D. P. Marquis, Ferndale, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Idler arm. 2,660,908, Dec. 1.

Freyer, Richard H. : *See*—
Swazy, Earl F., Freyer, and Busch.

Friden, James E., Whiting, and W. A. Shire, Munster, Ind., assignors to Standard Oil Company, Chicago, Ill. Hydrogen fluoride treating system. 2,661,266, Dec. 1.

Frisby Corporation, assignee : *See*—
Frisby, Frank D.

Frisby, Frank D., assignor to Frisby Corporation, St. Louis, Mo. Retaining ring. 2,660,913, Dec. 1.

Frolich, Per K. : *See*—
Sparks, William J., Gleason, and Frolich.

Fuel Research Corporation, assignee : *See*—
Stillman, Albert L.

Fuller, Mack F., Woodbury, N. J., and P. Van Fossen, Chicago, Ill., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Carbomethoxybenazazide and preparation. 2,661,355, Dec. 1.

Gaber, Martin, Chicago, Ill. Letter pad. 2,661,224, Dec. 1.

Gamrath, Harry R., and R. E. Hatton, assignors to Monsanto Chemical Company, St. Louis, Mo. Alkanediol phosphoryl monochlorides. 2,661,365, Dec. 1.

Gamrath, Harry R., and R. E. Hatton, assignors to Monsanto Chemical Company, St. Louis, Mo. Alkanediol mono-aryl ortho-phosphates. 2,661,366, Dec. 1.

Gandelot, Howard K., Grosse Pointe, assignor to General Motors Corporation, Detroit, Mich. Switch. 2,661,400, Dec. 1.

Gandrud, Ebenhard S., Owatonna, Minn. Detachable mounting for rate control slide in fertilizer spreaders. 2,661,125, Dec. 1.

Garing, Wilbur M., Torrington, Wyo. Inside ring engraving attachment. 2,660,933, Dec. 1.

Garrett, Burton R., Astoria, N. Y. Sorting machine. 2,661,090, Dec. 1.

Gaskill, Leo B., Pomona, Calif. Air circulator for orchards and field crops. 2,661,068, Dec. 1.

Gaulke, John E., Milwaukee, Wis. Illuminated stereoscope. 2,660,921, Dec. 1.

Gaumer, Rolland V., assignor to Industrial Devices of America, Inc., Zanesville, Ohio. Windshield wiper tensioning attachment. 2,660,748, Dec. 1.

Gaunt, William E. : *See*—
Jurist, Alfred E., Burke, and Gaunt.

Gazeley, William E., R. W. Meysner, and F. P. Graul, Schenectady, N. Y. Surgical splint. 2,661,000, Dec. 1.

Geiger, George M., assignor to H-P-M Development Corporation, Mount Gilead, Ohio. Pilot operated valve. 2,661,017, Dec. 1.

Gelpi, Maurice J., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Molded insulator. 2,661,390, Dec. 1.

General Aniline & Film Corporation, assignee : *See*—
Comer, Ann P., and Moore.
Slifkin, Sam C.

General Electric Company, assignee : *See*—
Casey, Robert T.
Dunnegan, Ted., Jr., and Ogle.
Kilbourne, Charles E.
Matthews, John W.
Nisbet, James D.
Page, Richard S.
Welsh, Charles E., and Holdstock.
Woodruff, Thomas E.

General Industries Company, The, assignee : *See*—
Hartman, Herbert L.

General Motors Corporation, assignee : *See*—
Davis, Raymond C., and Marvin.
Doughty, Robert T.
Gandelot, Howard K.
Jones, James E.
Martin, Thomas B.
McClelland, Clarence P.
Needham, Robert L.
Van Degrift, Thomas C.
Wyczalek, Floyd A.
Zmuda, Andrew W., and Mitzelfeld.

General Precision Laboratory Incorporated, assignee : *See*—
Borberg, Willy.

General Tire and Rubber Company, The, assignee : *See*—
Beck, Howard G.

Genich, William H. : *See*—
Covert, Claude J., and Genich.

Geophysical Research Corporation, assignee : *See*—
Wolf, Alfred.

Gerber, Dale C., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner with cord reel. 2,661,074, Dec. 1.

Gerhardt, Charles C., Douglaston, N. Y. Label wiping machine. 2,661,109, Dec. 1.

Gerhart, Carlton M., Jr., assignor to York Corporation, York, Pa. Residential air conditioning system. 2,660,863, Dec. 1.

Gerlach, Karl, Moers, Germany. Metallic prop. 2,661,180, Dec. 1.

Gerner, Theodore C., Oklahoma City, Okla. Repairing bell housing assemblies. 2,660,778, Dec. 1.

Gertel, Maurice G. : *See*—
Gordon, Samuel A., Espy, Cooke, and Gertel.

Giese, Walter E., West Salem, Ill. Race horse starting device. 2,660,980, Dec. 1.

Gilbert, A. C., Company, The, assignee : *See*—
Haury, William R.

Gille, Willis H., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electronic control apparatus. 2,661,449, Dec. 1.

Gillerstrom, Hilmer A., Arcadia, Calif., assignor to Independent Pneumatic Tool Co., Aurora, Ill. Centralizer. 2,661,189, Dec. 1.

Girard, Joseph E., Lewiston, Idaho. Implement handle securing key. 2,661,252, Dec. 1.

Gleason, Anthony H. : *See*—
Sparks, William J., Gleason, and Frolich.

Globe Industries, Inc., The, assignee : *See*—
Wasserman, Lee S.

Gobat, André R. : *See*—
Warner, Arthur J., and Gobat.

Goertz, Raymond C., Hempstead, N. Y., and H. L. Hull, York, Pa., assignors to The Sperry Corporation. Computing gun sight. 2,660,794, Dec. 1.

Goins, Perry L., Salem, Va. Machine for making hammer handles. 2,661,038, Dec. 1.

Goldberg, Joseph : *See*—
Dubin, Serrol, and Goldberg.

Goldstein, Irwin E., Philadelphia, Pa., assignor to Radio Corporation of America. Diplexer arrangement. 2,661,424, Dec. 1.

Goodbar, Mayo A., E. H. Placke, and C. G. Falkner, assignors to The National Cash Register Company, Dayton, Ohio. Totalizer engaging means. 2,661,151, Dec. 1.

Gordon, Carroll G., Pasadena, Calif., assignor to North American Aviation, Inc. Aircraft flap mechanism. 2,661,166, Dec. 1.

Gordon, Prince H., North Merrick, N. Y. Flight instrument. 2,660,977, Dec. 1.

Gordon, Samuel A., Baltimore, M. P. Espy, and C. H. Cooke, Baltimore County, Md., and M. G. Gertel, Boston, Mass., assignors to The Glenn L. Martin Company, Middle River, Md. Shock absorbing drag strut for aircraft landing gears. 2,661,203, Dec. 1.

Gorschalki, Max, Altadena, Calif. Nonferrous alloy. 2,661,285, Dec. 1.

Graef, John N., West Bend, Wis. Razor. 2,660,782, Dec. 1.

Grandjean, William B., Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y. Manufacture of tetraethyllead. 2,661,361, Dec. 1.

Graul, Fritz P. : *See*—
Gazeley, William E., Meysner, and Graul.

Green, Clarence J., assignor to Norton Company, Worcester, Mass. Grinding machine for shaping surfaces. 2,660,836, Dec. 1.

Green, Clarence J., assignor to Norton Company, Worcester, Mass. Cam grinding machine. 2,660,838, Dec. 1.

Greene, Arnold O., Austin, Minn. Measuring scoop with ejection mechanism. 2,660,784, Dec. 1.

Greene, Percy E., Denville, N. J., assignor to Leventhal Patents, Inc., New York, N. Y. Automatic wind and rewind system for strip materials. 2,661,163, Dec. 1.

Greenspan, Frank P., Buffalo, assignor to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y. Making mercuric acetate. 2,661,360, Dec. 1.

Gregoire, Jean A., Paris, France. Suspension of vehicles. 2,661,204, Dec. 1.

Gregoire, Jean A., Paris, France. Suspension device for vehicles. 2,661,206, Dec. 1.

Griswold, Donald G., El Monte, assignor to Clayton Manufacturing Company, Alhambra, Calif. Fluid pressure-operated valve. 2,661,023, Dec. 1.

Gropen, Edward M. : *See*—
Spiess, Newton E., Jr., and Gropen.

Gross, Gertrude T., New York, N. Y. Handy iron. 2,660,818, Dec. 1.

Guardite Corporation, assignee : *See*—
Heineman, Arnold H.

Guarino, Joseph J., New York, N. Y. Barrel bung bit having a passage for permitting flow of liquid. 2,661,123, Dec. 1.

Guggino, Salvatore, New York, N. Y. Book for making garment belts. 2,661,223, Dec. 1.

Güldenring, Paul, Remscheid, Germany. Meat grinder. 2,661,040, Dec. 1.

Gulf Research & Development Company, assignee : *See*—
Capell, Robert G.

H-P-M Development Corporation, assignee : *See*—
Geiger, George M.

Haffner, Hugo C., Brooklyn, N. Y. Bottle case. 2,661,111, Dec. 1.

Hagan, Clarence R., Memphis, Tenn., assignor to International Harvester Company. Cotton picker spindle assembly mounting. 2,660,851, Dec. 1.

Hager, Arthur C., and T. D. Jones, Berkeley, Calif. Hydraulic brake control. 2,661,081, Dec. 1.

Hall, James H., Lake Bluff, Ill., assignor to Fansteel Metallurgical Corporation. Sealed rectifier. 2,661,447, Dec. 1.

Hall & McChesney, Inc., assignee : *See*—
McChesney, Donald S.

Haloid Company, The, assignee : *See*—
Mayo, Clyde R., and Wolfe.

Halpert, Percy : *See*—
Curry, Robert S., Jr., and Halpert.

Hammond, Edmund B., Jr. : *See*—
Hofschuh, Carl G., Hammond, and White.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Magnetron and circuit therefor. 2,661,426, Dec. 1.

Hardway, Edward V., Jr., Richmond, Va. Electrokinetic measuring instrument. 2,661,430, Dec. 1.

Hargus, William D., Brawley, Calif. Grading marker. 2,660 822, Dec. 1.

Harms, Gilbert A., Coffee Creek, Mont. Can-opening and pouring spout-forming device. 2,660,781, Dec. 1.

Harrison, John : *See*—
Page, George J., and Harrison.

Hartman, Herbert L., assignor to The General Industries Company, Elyria, Ohio. Selective plural speed frictional drive mechanism. 2,660,896, Dec. 1.

Harvey, Robert L., Princeton, N. J., assignor to Radio Corporation of America. Variable band width amplifier. 2,661,399, Dec. 1.

Hatton, Roger E. : *See*—
Gamrath, Harry R., and Hatton.

Haury, William R., Hamden, assignor to The A. C. Gilbert Company, New Haven, Conn. Dead-man circuit control unit for train transformers. 2,661,461, Dec. 1.

Hawes, William B. : *See*—
Walsh, Conrad L., Hawes, and Foulger.

Heiland Research Corporation, assignee : *See*—
McCammon, Robert F.

Heimann, Heinrich, New York, and I. Shur, Floral Park, assignors to Waldes Kohinoor, Inc., Long Island City, N. Y. Slide fastener. 2,660,774, Dec. 1.

Hein, Harold W., Chicago, Ill., assignor to International Harvester Company. Signaling device for vacuum milking machines. 2,660,976, Dec. 1.

Heineman, Arnold H., Chicago, Ill., assignor, by mesne assignments, to Guardite Corporation, Wilmington, Del. Antisurge control for refrigeration compressors. 2,661,145, Dec. 1.

Heintz, James C., deceased, Lakewood, Ohio ; The Cleveland Trust Company, executor. Siping tire and apparatus therefor. 2,660,767, Dec. 1.

Helin, Alphonse, Vitry-le-Francois, France. Spade, shovel, fork or the like tool. 2,661,186, Dec. 1.

Hemingway, Arthur V., Boreham Wood, and P. D. Atkinson, Radlett, England. Saturable core transformer system. 2,661,453, Dec. 1.

Henderson, Robert, Bovey Tracey, South Devon, assignor to Robert Building Inventions Limited, London, England. Joint between channel members. 2,661,083, Dec. 1.

Hendrickson, Jacob W., Jr., Mercer Island, Wash., assignor to Container Corporation of America, Chicago, Ill. Shipping container with carrying handle. 2,661,142, Dec. 1.

Henke, Hermann, Stein am Rhine, Switzerland. Ski boot. 2,660,812, Dec. 1.

Hennig, Harvey : *See*—
Folkins, Hillis O., Miller, and Hennig.

Hennike, Anthony J., G. Morris, and E. E. Broady, Phoenix, Ariz. Injection flask apparatus. 2,660,758, Dec. 1.

Hepp, Harold J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Isomerization process. 2,661,384, Dec. 1.

Herbold, Robert J., assignor to L. M. Hughes, Denver, Colo. Apparatus for aiding the landing of aircraft. 2,660,702, Dec. 1.

Hercules Electric & Mfg. Co., Inc., assignee : *See*—
Fowler, Alexander.

Hercules Powder Company, assignee : *See*—
Azorlosa, Julian L.
Conner, Joshua C., Jr.

Herzstark, Curt, assignee : *See*—
Mark, Franz.

Hess, Bryce M., Chicago, Ill. Drier for granular material. 2,660,810, Dec. 1.

Hess, Howard V. : *See*—
Skelton, William E., Hess, Arnold, and Mahan.

Hicks, William T., Glen Rock, and D. V. Waters, Lebanon, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic takeup mechanism. 2,661,161, Dec. 1.

Heiber, George E., assignor to Landis Machine Company, Waynesboro, Pa. Metal-working machine. 2,660,738, Dec. 1.

High, Donald A., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Purification process. 2,661,265, Dec. 1.

Hill, C. V., & Company, Inc., assignee : *See*—
Morris, Harry A.

Hill, Edgar A. G., Wembley, and N. K. Lovatt, St. Albans, assignors to Rollnick & Gordon Limited, Wembley, England. Motor pump unit and cooling means. 2,661,146, Dec. 1.

Hill, Julian W. : *See*—
Ernsberger, Maurice L., and Hill.

Hill, Oiva E., West Boylston, assignor to Norton Company, Worcester, Mass. Grinding machine. 2,660,837, Dec. 1.

Hilsinger, Harry A., Jr., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Friction device for operating knobs in adjustable apparatus. 2,660,904, Dec. 1.

Hiltmann, Rudolf, and K. Bauer, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Isothiuronium salt of penicillin. 2,661,350, Dec. 1.

Hilton, Albert F., Cincinnati, Ohio. Striking bag construction. 2,661,212, Dec. 1.

Hoener, Lavern G., East Chicago, Ind. Motor vehicle speed control. 2,661,071, Dec. 1.

Hofer, Laurence F., Portland, Oreg. Adjustable mounting for rearview mirrors. 2,661,177, Dec. 1.

Hoffmann-La Roche Inc., assignee : *See*—
Kimel, Walter, and Sax.

Holsington, Ralph S., Memphis, Tenn. Fiber tester. 2,660,889, Dec. 1.

Holder, Frederick D., Hickory, N. C. Golf bag holding stand. 2,661,175, Dec. 1.

Holdstock, Norman G. : *See*—
Welsh, Charles E., and Holdstock.

Holliday, L. B., & Company, Limited, assignee : *See*—
Appleton, Henry B., and Kiehl.

Hollingbery, William B., Whitley Bay, England, assignor to Houseman & Thompson Limited. Automatic blowdown valve. 2,661,014, Dec. 1.

Holschuh, Carl G., Glen Head, E. B. Hammond, Jr., and W. T. White, Brooklyn, N. Y., assignors to The Sperry Corporation. Stabilized tracking and fire control system. 2,660,793, Dec. 1.

Hoover Company, The, assignee : *See*—
Brace, George A.
Gerber, Dale C.
Kanta, George E.
Tamm, Emil S.
Vance, John E.
Wilson, Herbert W.

Horeczy, Joseph T. : *See*—
Wadley, Edward F., and Horeczy.

Horn, John C., Alexandria, and R. W. Wilson, assignors to Wald Industries, Inc., Huntingdon, Pa. Transport trailer. 2,661,108, Dec. 1.

Horsley, Caperton B., Westwood, and G. C. Seavey, Arlington, assignors to Sonic Research Corporation, Boston, Mass. Means for treating materials with intense alternating shear forces. 2,661,192, Dec. 1.

Hörz, Emil : *See*—
Schnürle, Adolf, Kopf, Elwert, and Hörz.

Houdaille-Hershey Corporation, assignee : *See*—
Sandberg, Ray A.

Houdry Process Corporation, assignee : *See*—
Evans, James E.

Houseman & Thompson Limited, assignee : *See*—
Hollingbery, William B.

Howard, Edward G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Photopolymerization process. 2,661,331, Dec. 1.

Howard, Virginia P., Alice, Tex. Folding picture frame. 2,660,825, Dec. 1.

Howell, Albert R., Los Angeles, and O. W. Tackett, San Gabriel, Calif. Pavement marker. 2,660,791, Dec. 1.

Huber, Walter E., Dayton, Ohio, assignor to The Dayton Rubber Company. Making V-type connector belts. 2,661,045, Dec. 1.

Hudak, John B., assignee : *See*—
Blackburn, Charles L., and Percy.

Hudson, Thomas B., Bartlesville, Okla., assignor to Phillips Petroleum Company. Manufacture of synthesis gas. 2,661,270, Dec. 1.

Huffman, Max N., Oklahoma City, Okla., assignor to G. D. Searle & Co., Chicago, Ill. Production of 16-keto-17-hydroxy steroids. 2,661,357, Dec. 1.

Huisman, Albert J., The Hague, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Automatic shutoff liquid dispensing nozzle. 2,661,136, Dec. 1.

Hull, Harvard L. : *See*—
Goertz, Raymond C., and Hull.

Hutt-Brenning, Vincent A., Durban, Natal, Union of South Africa. Manufacture of containers from fiberboard and like sheet material. 2,660,971, Dec. 1.

Hyatt, Edwin C., L. L. Lyon, Jr., and W. R. Swanson, assignors to The Coleman Company, Inc., Wichita, Kans. Apparatus for vaporization and combustion of hydrocarbon distillates. 2,661,054, Dec. 1.

Hyatt, Edwin C., L. L. Lyon, Jr., and W. R. Swanson, assignors to The Coleman Company, Inc., Wichita, Kans. Vaporization and combustion process for hydrocarbon distillates. 2,661,271, Dec. 1.

Hyde, A. R., & Sons Company, assignee : *See*—
Shapiro, Isadore.

Hydropress, Inc., assignee : *See*—
Kent, Francis J., and Reichl.

Hyman, Julius: *See*—
McKenna, Thomas G., Soloway, Lidov, and Hyman.
Illinois Tool Works, assignee: *See*—
Sklenar, Lester J.
Imhof, Herman A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in manufacture of shoes. 2,660,739, Dec. 1.
Independent Nail and Packing Company, Inc., The, assignee: *See*—
Thornton, Jens.
Independent Pneumatic Tool Co., assignee: *See*—
Gillerstrom, Hilmer A.
Industrial Devices of America, Inc., assignee: *See*—
Gaumer, Rolland V.
Industrie- en Handelmaatschapoij "De Vuurslag" C. V., assignee: *See*—
Neutelings, Theodoor R. and W.
Industrikemiska Aktiebolaget, assignee: *See*—
Ohlander, Kjell P. A.
Ingersoll-Rand Company, assignee: *See*—
Anderson, James H.
Ingraham, E., Company, The, assignee: *See*—
Burghoff, Louis R.
Injeski, Stanley G., assignor to Dings Magnetic Separator Co., Milwaukee, Wis. Endless belt magnetic separator. 2,661,092, Dec. 1.
Inland Steel Company, assignee: *See*—
Brashear, Joseph M.
Inman, William H., assignor to Bloomer Bros. Company, Newark, N. Y. Carton. 2,661,143, Dec. 1.
International Harvester Company, assignee: *See*—
Baughman, Charles R.
Borgerd, William F.
Hagen, Clarence R.
Hein, Harold W.
Kaupke, Lee H.
Peterson, Walter R.
Pool, Stuart D., and Van Buskirk.
Tipton, Phillip R., and Borgerd.
Wallenbrock, Ralph E., and Voda.
International Minerals & Chemical Corporation, assignee: *See*—
Dowling, Basil B.
International Paint Company, Inc., assignee: *See*—
Ward, Arthur.
Interstate Drop Forge Company, assignee: *See*—
Davis, Donald K., and Rauh.
Iowa State College Research Foundation, Inc., assignee: *See*—
Boast, Warren B., and Ryder.
Ipatieff, Vladimir N.: *See*—
Pines, Herman, and Ipatieff.
Isachsen, Ludvik, Larvik, Norway. Roller housing with line reeving arrangement. 2,661,185, Dec. 1.
Isachsen, Ludvik, Larvik, Norway. Vehicle for timber transport. 2,661,235, Dec. 1.
Jacobs, Samuel S.: *See*—
Reid, George C., and Jacobs.
Jacques, Raynaldo P.: *See*—
Robinson, Robert D.
Jaffa, Ned E.: *See*—
MacFadyen, Kenneth W., and Jaffa.
Jaffe, Hans, Cleveland Heights, assignor, by mesne assignments, to Clevite Corporation, Cleveland, Ohio. Piezoelectric device. 2,661,433, Dec. 1.
James, Richard E., and A. J. Lampert, Los Angeles, assignors to Rheem Manufacturing Company, Richmond, Calif. Downdraft diverter. 2,660,998, Dec. 1.
Jasco, Incorporated, assignee: *See*—
Sparks, William J., Gleason, and Frolich.
Jefferson, Harold: *See*—
Styrén, Knut O. I., and Jefferson.
Jefferson, Lorenz E., Baltimore, Md. Awning rope guide and pulley. 2,661,184, Dec. 1.
Jefferson, Robert L.: *See*—
Sprenger, John H., and Jefferson.
Jeffrey Manufacturing Company, The, assignee: *See*—
Mercier, Stanley M.
Jenkins, Russell L., Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo. Rendering cellulosic materials fire resistant with phosphorous oxychloride-anhydrous ammonia reaction products and products produced thereby. 2,661,311, Dec. 1.
Jentzen, George H., Hasbrouck Heights, N. J. Power-operated doll eye and lid mechanism. 2,660,830, Dec. 1.
Jewett, Deane N. and R. S., assignors to Detroit Hardware Manufacturing Company, Detroit, Mich. Closure lock. 2,660,875, Dec. 1.
Jewett, Richard S.: *See*—
Jewett, Deane N. and R. S.
Jochem, Theodore B., Wauwatosa, and H. L. Mekelburg, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Adjustable multiposition electrical controller. 2,661,401, Dec. 1.
Johnson Bronze Company, assignee: *See*—
Wright, Stephen W., and Love.
Johnson, Charles R., Glenn Mills, Pa., and E. H. Schmidt, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting initiator loading machine. 2,660,914, Dec. 1.
Johnson, John M., Shawnee, Kans., assignor of one-half to R. R. Beane, Kansas City, Mo. Battery terminal clamp. 2,661,463, Dec. 1.
Johnson, William A., Farnborough, and R. H. J. Cary, Great Malvern, England, assignors to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Slotted antenna system. 2,661,422, Dec. 1.
Jones, Ira M., assignee: *See*—
Brooks, Lewis C.
Jones, James E., assignor to General Motors Corporation, Detroit, Mich. Switch. 2,661,407, Dec. 1.
Jones, Loren F., Philadelphia, Pa., assignor to Radio Corporation of America. Position locating system. 2,661,467, Dec. 1.
Jones, Ted D.: *See*—
Hager, Arthur C., and Jones.
Jorenby, Carl O., Kennedy, N. Y. Combined feed receptacle and trough. 2,660,981, Dec. 1.
Jurist, Alfred E., Brooklyn, N. Y., and J. C. Burke, Milltown, and W. E. Gaunt, Dunellen, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md. Prolonged-effectiveness injectable therapeutic preparation. 2,661,315, Dec. 1.
Kanta, George E., Three Forks, Mont., assignor to The Hoover Company, North Canton, Ohio. Iron. 2,660,821, Dec. 1.
Katovsich, Thomas L., St. Joseph County, Ind. Mixer for use in jetting apparatus. 2,661,194, Dec. 1.
Katz, Greta, Beverly Hills, Calif. Brassière. 2,660,729, Dec. 1.
Kaupke, Lee H., Stockton, Calif., assignor to International Harvester Company. Tool-bar for crawler tractors. 2,660,938, Dec. 1.
Keinath, Johannes, M. Kuhn, and F. Boss, Onstmettingen, and L. Leitz, Wetzlar (Lahn), assignors to Ernst Leitz G. m. b. H., Wetzlar, Germany. Enlarging easel. 2,660,919, Dec. 1.
Keiper, Edwin H., assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Reversible hammermill with power-driven impactor surfaces. 2,661,160, Dec. 1.
Keith, John W., Beaumont, Tex., assignor to The Texas Company, New York, N. Y. Preparing dense compositions of asphalt and asbestos. 2,661,302, Dec. 1.
Keller, Siegfried, Effretikon, assignor to Machine Tool Works Oerlikon, Administration Company, Zurich-Oerlikon, Switzerland. Control system for automatic single-chamber compressed air brakes. 2,661,248, Dec. 1.
Kemper, Harry C., Goshen Township, Clermont County, and N. D. Cooper, Mariemont, assignors to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Automatic cycle machine tool. 2,660,932, Dec. 1.
Kennedy, Edward F., Chicago, Ill. Clothes-washing and extracting apparatus. 2,660,870, Dec. 1.
Kennedy, Marian M.: *See*—
Davis, Frank G., and Kennedy.
Kent, Francis J., and R. M. Reichl, Forest Hills, assignors to Hydropress, Inc., New York, N. Y. Hydraulic machine. 2,660,955, Dec. 1.
Kew, George R., assignor to Palmer-Bee Company, Detroit, Mich. Conveyer chain. 2,660,898, Dec. 1.
Keys, Carl F., Denver, Colo. Marking gauge. 2,660,802, Dec. 1.
Kiehl, Peter F.: *See*—
Appleton, Henry B., and Kiehl.
Kiessling, Carl J. E.: *See*—
Bergknut, Gunnar P., and Kiessling.
Kilbourne, Charles E., Schenectady, N. Y., assignor to General Electric Company. Dynamoelectric machine core ventilation. 2,661,434, Dec. 1.
Kimel, Walter, Highland Park, N. J., and N. W. Sax, Brooklyn, N. Y., assignors to Hoffmann-La Roche Inc., Nutley, N. J. Preparation of disubstituted propargyl acetoacetates and decarboxylation of same. 2,661,368, Dec. 1.
King Sales & Engineering Co., assignee: *See*—
McGilhon, Leonard.
Kingsbury, Chadwick B., Elizabethton, Tenn., assignor to North American Rayon Corporation, New York, N. Y. Balloon guard. 2,660,856, Dec. 1.
Kipp, Samuel M., Pasadena, Calif. Multiway piston valve with removable bushing and packing structure. 2,661,182, Dec. 1.
Kirkpatrick, Alton, Brighton, assignor to Stone & Webster Engineering Corporation, Boston, Mass. Condenser with subcooler and venting means. 2,661,190, Dec. 1.
Klein, William C.: *See*—
Lebedeff, Yurii E., and Klein.
Knowles, James H., Tulia, Tex. Cotton harvester. 2,660,849, Dec. 1.
Knox, Arthur L.: *See*—
Mills, Donald H., and Knox.
Knox, Donald G., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Plunger construction. 2,661,024, Dec. 1.
Koller, Emil: *See*—
Neidhart, Martin, and Koller.
Kopf, Johann: *See*—
Schnürle, Adolf, Kopf, Elwert, and Hörz.
Kopp, George, Rugby, England. Film type liquid fuel burner. 2,661,055, Dec. 1.
Koskinen, Olavi M., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Rotor wheel. 2,660,957, Dec. 1.

Koskinen, Olavi M., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Making fluid coupling rotor elements. 2,660,970, Dec. 1.
Koth, Ervin A., assignor to The Vilter Manufacturing Co., Milwaukee, Wis. Fluent material concentrator. 2,661,095, Dec. 1.
Kraft, Wheaton W., Scarsdale, assignor to The Lummus Company, New York, N. Y. Asphalt blowing. 2,661,323, Dec. 1.
Kuehne, Oscar C., San Antonio, Tex. Gas burner with multiple mixer and single combustion chamber. 2,661,056, Dec. 1.
Kuhm, Max, assignor to Karl Schmidt Gesellschaft mit beschraenkter Haftung, Neckarsulm, Wurttemberg, Germany. Light metal piston for combustion engines. 2,661,256, Dec. 1.
Kuhn, Manfred: *See*—
Keinath, Johannes, Kuhn, Boss, and Leitz.
Külz, Annemarie, administratrix: *See*—
Külz, Fritz, and Schöpf.
Külz, Fritz, deceased, Frankfurt am Main, Germany, by I. and A. Külz, Frankfurt am Main, W. Külz, Essen, Stoppenberg, and F. Lehmann, Frankfurt am Main, Germany, administrators of the estate of F. Külz, and C. Schöpf, Darmstadt, Germany. Certain amino alcohols and ketones. 2,661,373, Dec. 1.
Külz, Ida, administratrix: *See*—
Külz, Fritz, and Schöpf.
Külz, Walburga, administrator: *See*—
Külz, Fritz, and Schöpf.
Kunz, Karl J.: *See*—
Schöpf, Clemens, and Kunz.
Kurzbin, Karl R., San Jose, Calif., assignor, by mesne assignments, to R. W. Ryder. Spraying machine. 2,661,242, Dec. 1.
Laber, Ernest J., Irwin, Pa., assignor to Westinghouse Air Brake Company. Compression gasket having means for indicating when improperly positioned. 2,661,245, Dec. 1.
La Forge, Frederick B.: *See*—
Schechter, Milton S., and La Forge.
Lambert, Harry L., Rochester, N. Y., assignor to Commercial Controls Corporation. Trip means for rotary metered mailing machines. 2,660,950, Dec. 1.
Lampert, Albert J.: *See*—
James, Richard E., and Lampert.
Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Product for dispensing a liquid-coated sheet. 2,661,292, Dec. 1.
Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Producing a colored photographic image by means of exhaustion of developer. 2,661,293, Dec. 1.
Landau, Miles E., New York, N. Y. Protective case and filing unit. 2,660,965, Dec. 1.
Landis Machine Company, assignee: *See*—
Hieber, George E.
Landis Tool Company, assignee: *See*—
Balsiger, Harold E.
Lanning, Charles H., Woodstock, Ill. Coloring board. 2,660,983, Dec. 1.
Lanning, William C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Regeneration of a Fischer-Tropsch reduced iron catalyst. 2,661,338, Dec. 1.
Latour, André, assignor to Etablissements Merlin & Gerin, Grenoble, France. Fluid control device. 2,661,022, Dec. 1.
Latzen, Josef, assignor to A. Ehrenreich & Cie., Dusseldorf-Oberkassel, Germany. Resilient steering linkage connection. 2,660,901, Dec. 1.
Lauck, John A., Shaker Heights, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Pressure loaded gear pump. 2,660,958, Dec. 1.
Lauttainen, Uuno, Savonlinna, Finland. Flushing valve. 2,661,021, Dec. 1.
Laviste, Cornelius, Skonsberg, Sweden. Means for defibrating and grinding paper pulp or other fibrous material. 2,660,934, Dec. 1.
Lebedeff, Yurii E., Metuchen, and W. C. Klein, Menlo Park, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Removing tellurium from antimony. 2,661,280, Dec. 1.
Le Blond, R. K., Machine Tool Co., The, assignee: *See*—
Kemper, Harry C., and Cooper.
Lederer, Ernest A., Essex Fells, N. J., assignor to Radio Corporation of America. Getter material for electron discharge. 2,661,336, Dec. 1.
Lee, Robert E., Endicott, N. Y. Window frame. 2,660,764, Dec. 1.
Leffer, Frederick W., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of heavy hydrocarbonaceous materials in the presence of subdivided coke. 2,661,324, Dec. 1.
Leffler, Earl H., Dearborn, assignor to Consolidated Brass Company, Detroit, Mich. Relief valve of the poppet type. 2,661,016, Dec. 1.
Lehmann, Friedrich, administrator: *See*—
Külz, Fritz, and Schöpf.
Leitz, Ernst, G. m. b. H., assignee: *See*—
Keinath, Johannes, Kuhn, Boss, and Leitz.
Leitz, Ludwig: *See*—
Keinath, Johannes, Kuhn, Boss, and Leitz.
Lemmerman, C. W., Inc., assignee: *See*—
Lemmerman, Carl W.
Lemmerman, Carl W., West Hartford, assignor to C. W. Lemmerman, Inc., Hartford, Conn. Air-cooled exhaust muffler with sound absorbing panels. 2,661,072, Dec. 1.
Leonard, Gordon, Kansas City, Mo. Container. 2,661,138, Dec. 1.
Leslie, John F., Mishawaka, Ind. Buffing wheel. 2,660,841, Dec. 1.
Leventhal Patents, Inc., assignee: *See*—
Greene, Percy E.
Levesque, Henry R., Nashua, N. H., assignor to United Shoe Machinery Corporation, Flemington, N. J. Preparing binder wire for attachment to shoes. 2,661,031, Dec. 1.
Lichty, Lester C., New Haven, Conn., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Air-cooling gas turbine blade. 2,660,858, Dec. 1.
Lidov, Rex E.: *See*—
McKenna, Thomas G., Soloway, Lidov, and Hyman.
Lien, Arthur P., Highland, Ind., and D. A. McCaulay, assignors to Standard Oil Company, Chicago, Ill. Preparation of ethylxylenes. 2,661,382, Dec. 1.
Lies, Albert C., Minneola, Kans. Disk measuring device. 2,660,796, Dec. 1.
Lift-A-Line, Inc., assignee: *See*—
Rose, Lawrence S.
Lincoln, Arnold J., Florham Park, and G. D. Courtright, assignors to Baker & Co., Inc., Newark, N. J. Muffle type furnace. 2,661,385, Dec. 1.
Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Nuclear electrical generator. 2,661,431, Dec. 1.
Linton, Bert F., Visalia, Calif. Animal hold-down for cattle chutes. 2,660,982, Dec. 1.
Lipe-Rollway Corporation, assignee: *See*—
Spase, Charles B.
Lippis, Tony, Florence, Colo. Trench digging plow. 2,660,815, Dec. 1.
Little, Arthur D., Inc., assignee: *See*—
Sullivan, Frederick.
Livacich, John T., and E. W. De Gear, San Francisco, Calif., assignors to American Can Company, New York, N. Y. Closing machine with rectangular container squaring and debulging devices. 2,660,936, Dec. 1.
Livacich, John T., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Closing machine with oval container and cover positioning device. 2,660,968, Dec. 1.
Lockwood, David W., Evanston, and W. E. Bowman, Kenilworth, Ill. Safety passenger holding device for automotive vehicles. 2,661,221, Dec. 1.
Loma Plastics Inc., assignee: *See*—
Barnett, Louis H., and Brin.
Long, Spencer W., Inglewood, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Drilling hook assembly. 2,661,232, Dec. 1.
Lorens, Anton, Buffalo, N. Y. Reclining article of furniture. 2,661,048, Dec. 1.
Lorenzetti, Lorenzo, Sao Paulo, Brazil. Automatic electric water heater. 2,661,409, Dec. 1.
Lovatt, Norman K.: *See*—
Hill, Edgar A. G., and Lovatt.
Love, Phil P.: *See*—
Wright, Stephen W., and Love.
Loyd, Jack, assignor of one-half to A. S. Morningstar, Joplin, Mo. Offset cutting pliers. 2,660,786, Dec. 1.
Lubszynski, Hans G., Northwood, and R. S. Webley, assignors to Electric & Musical Industries Limited, Hayes, England. Color television. 2,661,392, Dec. 1.
Luczko, Joseph, assignee: *See*—
Luczko, Thomas R.
Luczko, Thomas R., assignor of sixteen per cent to J. Luczko, sixteen per cent to C. Finch, and sixteen per cent to N. Finch, Johnstown, Pa. Brake fluid safety indicator. 2,661,410, Dec. 1.
Ludeman, Oscar H., New York, N. Y. Motor having hydraulically operated valve. 2,660,986, Dec. 1.
Lummus Company, The, assignee: *See*—
Kraft, Wheaton W.
Schutte, August H.
Lummus, James L., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Water-in-oil emulsion drilling fluid. 2,661,334, Dec. 1.
Lundgren, Gösta T., Nynashamn, Sweden. Retort type sectional high-frequency furnace. 2,661,386, Dec. 1.
Lyon, Gilbert T., Van Dyke, Mich. Hose clamp fitting connection. 2,661,225, Dec. 1.
Lyon, Luther L., Jr.: *See*—
Hyatt, Edwin, Lyon, and Swanson.
Lyons, Ivor A., Los Angeles, Calif. Incinerator with raking arm. 2,660,966, Dec. 1.
MacDonald, George A., San Dimas, Calif. Angularly adjustable work-supported guide for portable power saws. 2,661,043, Dec. 1.
MacFadyen, Kenneth W., Avenel, and N. E. Jaffa, Roselle, N. J., assignors to Food Machinery and Chemical Corporation, Wilmington, Del. Production of hydrogen peroxide. 2,661,268, Dec. 1.
MacGlashan, William F., Jr., Alhambra, assignor to California Institute Research Foundation, Pasadena, Calif. Pressure regulator. 2,660,834, Dec. 1.
Machine Tool Works Oerlikon, Administration Company, assignee: *See*—
Keller, Siegfried.

MacLaren, Frederick H., Munster, and L. P. Schwartz, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Trough greases and preparing the same. 2,661,318, Dec. 1.

Magnavox Company, The, assignee: *See*—
Mills, Donald H., and Knox.

Mahan, Boyd L.: *See*—
Skelton, William E., Hess, Arnold, and Mahan.

Main, Robert C.: *See*—
Eskin, Samuel G., and Main.

Mallory-Sharon Titanium Corporation, assignee: *See*—
Swazy, Earl E., Freyer, and Busch.

Maloney, Norvin G., Newport, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for weight classification. 2,661,091, Dec. 1.

Malouf, Abraham M., Los Angeles, Calif. Keyhole cover for lock caps. 2,660,877, Dec. 1.

Malowan, John E., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Nitrogen and phosphorus containing product and producing same. 2,661,264, Dec. 1.

Malowan, John E., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Phosphorous oxychloride-anhydrous ammonia reaction products and water-soluble resin compositions for rendering cellulosic materials fire resistant. 2,661,342, Dec. 1.

Manley, Robert T.: *See*—
Menning, Ralph H., and Manley.

Marconi's Wireless Telegraph Company Limited, assignee: *See*—
Cooper, Victor J., and Nixon.

Mark, Franz, Perchtoldsdorf, near Vienna, assignor to C. Herzstark, Feldkirch, Vorarlberg, Austria. Accumulator-carriage and drive-shaft interlock for miniature-type calculating machines. 2,661,155, Dec. 1.

Marlow, Owen W., Rock Island, Ill. Rammer. 2,660,928, Dec. 1.

Marquis, Donald P.: *See*—
French, Oliver S., and Marquis.

Marquis, Donald P., Ferndale, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Idler arm. 2,660,905, Dec. 1.

Martin, Glenn L., Company, The, assignee: *See*—
Allen, John H.
Gordon, Samuel A., Espy, Cooke, and Gertel.

Martin, Thomas B., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Propeller pitch control. 2,661,067, Dec. 1.

Martini, Herbert A., assignor to J. L. Peacock, Chicago, Ill. Cosmetic composition containing lanolin in high concentration. 2,661,316, Dec. 1.

Marvin, John T.: *See*—
Davis, Raymond C., and Marvin.

Mathieson Chemical Corporation, assignee: *See*—
Jurist, Alfred E., Burke, and Gaunt.

Matthews, John W., Schenectady, N. Y., assignor to General Electric Company. Transient pressure detector. 2,661,460, Dec. 1.

Maxwell, Willard A., Portland, Oreg. Combination bulldozer and shovel arrangement. 2,660,816, Dec. 1.

May & Baker Limited, assignee: *See*—
Barber, Harry J.

Mayo, Clyde R., and B. J. Wolfe, assignors to The Haloid Company, Rochester, N. Y. Adhesive transfer and fixing apparatus. 2,661,289, Dec. 1.

McCammon, Robert F., assignor to Helland Research Corporation, Denver, Colo. Multispeed transmission. 2,660,899, Dec. 1.

McCaulay, David A.: *See*—
Lien, Arthur P., and McCaulay.

McChesney, Donald S., Solvay, assignor to Hall & McChesney, Inc., Syracuse, N. Y. Flat film viewer. 2,660,920, Dec. 1.

McClelland, Clarence P., Royal Oak, assignor to General Motors Corporation, Detroit, Mich. Windshield wiper drive apparatus. 2,660,894, Dec. 1.

McClure, Glenn T.: *See*—
Rush, John W., and McClure.

McCormick, Charles E., Dearborn, Mich. Trim fastening means for vehicle seats. 2,661,051, Dec. 1.

McCoy, Carl J., Orcutt, Calif. Perforation cleaning device. 2,661,065, Dec. 1.

McCutcheon, James, & Co., assignee: *See*—
Dumble, Paul E. and W. J., and Dowling.

McDonald, Dan, assignor to Aurora Research Industries, Inc., Aurora, Ill. Dry cleaning apparatus. 2,660,869, Dec. 1.

McEwen, Robert L., Williamsville, F. R. Sheldon, Buffalo, and W. F. Schroeder, North Tonawanda, assignors to Buffalo Electro-Chemical Company, Tonawanda, N. Y. Superbleaching chemical pulp. 2,661,261, Dec. 1.

McGalliard, David C., Short Hills, N. J. Sheet distributor. 2,661,209, Dec. 1.

McGihon, Leonard, San Leandro, assignor to King Sales & Engineering Co., San Francisco, Calif. Compound woodworking tool with variable drive. 2,661,037, Dec. 1.

McGihon, Leonard, San Leandro, assignor to King Sales & Engineering Co., San Francisco, Calif. Filling and closing machine. 2,661,134, Dec. 1.

McGraw Electric Co., assignee: *See*—
Stoelting, Herman O.

McGraw Electric Company, assignee: *See*—
Adcock, Herbert V.

McKenna, Thomas G., S. B. Soloway, R. E. Lidov, and J. Hyman, Denver, Colo., assignors, by mesne assignments, to Shell Development Company, Emeryville, Calif. Halogen exchange. 2,661,377, Dec. 1.

McKenna, Thomas G., S. B. Soloway, R. E. Lidov, and J. Hyman, Denver, Colo., assignors, by mesne assignments, to Shell Development Company, Emeryville, Calif. Halogen exchange. 2,661,378, Dec. 1.

McLaughlin & Slugg, assignee: *See*—
Callan, Raymond C.

Meade, Reginald E., Appleton, Wis., assignor to Western Condensing Company, San Francisco, Calif. Drying lacteal fluids. 2,661,294, Dec. 1.

Mechanical Handling Systems, Inc., assignee: *See*—
Mullen, Edward.

Mechanite Metal Corporation, assignee: *See*—
Smalley, Oliver.

Mekelburg, Harold L.: *See*—
Jochem, Theodore B., and Mekelburg.

Meltzer, Jack, Los Angeles, Calif. Making force-lasted shoes with counter-stiffened quarters and full-length stitched-in sock linings. 2,660,742, Dec. 1.

Meltzer, Jack, Los Angeles, Calif. Making rigidified slip-lasted shoes. 2,660,743, Dec. 1.

Menning, Ralph H., Kansas City, Mo., and R. T. Manley, Kansas City, Kans., assignors to The Vendo Company, Kansas City, Mo. Vending machine having tiltable bottle cradle for moving bottles to vending position. 2,661,107, Dec. 1.

Mercier, Stanley M., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Elevator casing and close fitting adjustable feed chute. 2,661,088, Dec. 1.

Mercier, Stanley M., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Bucket elevator housing. 2,661,089, Dec. 1.

Merkantila Ingenïörsbyrån Pehr Husberg Aktiebolag, assignee: *See*—
Schein, Harry L.

Merrill, Donald G., West Hartford, assignor to Emhart Manufacturing Company, Hartford, Conn. Apparatus for annealing glassware. 2,660,832, Dec. 1.

Meysner, Richard W.: *See*—
Gazeley, William E., Meysner, and Graul.

Middlemark, Marvin P., Woodside, N. Y. Multidirectional antenna with included reflector. 2,661,423, Dec. 1.

Milborn, Hans: *See*—
Van Bemmel, Pieter M., and Milborn.

Militano, Vincent, Levittown, assignor to The Finkel Umbrella Frame Company, Inc., New York, N. Y. Tiltable umbrella. 2,661,012, Dec. 1.

Miller, Elmer: *See*—
Folkins, Hillis O., Miller, and Hennig.

Miller, John H., La Grange, Mo. Flexible mold for forming statues with spaced legs. 2,660,776, Dec. 1.

Miller, Joseph F. G., Plandome, N. Y. Closure plug for a tubular casing. 2,661,120, Dec. 1.

Mills, Donald H., and A. L. Knox, assignors to The Magnavox Company, Fort Wayne, Ind. Phonograph record changer. 2,661,216, Dec. 1.

Milmore, Oswald H., Berkeley, assignor to Shell Development Company, Emeryville, Calif. Pneumatic speed sensing unit. 2,660,886, Dec. 1.

Minglone, Carl, Detroit, Mich. Reel timer. 2,660,707, Dec. 1.

Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, The, assignee: *See*—
Johnson, William A., and Cary.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Gille, Willis H.
Wannamaker, William H., Jr., and Mouzon.

Minneapolis-Moline Company, assignee: *See*—
Swenson, William E.

Mirus, Ferdinand: *See*—
Zobel, Theodor W., and Mirus.

Mitchell Camera Corporation, assignee: *See*—
Mitchell, George A.

Mitchell, George A., Pasadena, assignor to Mitchell Camera Corporation, Glendale, Calif. Cam-actuated intermittent movement. 2,660,918, Dec. 1.

Mittelmann Electronics Corporation, assignee: *See*—
Mittelmann, Eugene.

Mittlemann, Eugene, assignor to Mittlemann Electronics Corporation, Chicago, Ill. Impedance matching generator. 2,661,425, Dec. 1.

Mitzelfeld, Thomas H.: *See*—
Zmuda, Andrew W., and Mitzelfeld.

Mohaupt, Henry H., Washington, D. C. Underwater firing mechanism. 2,660,952, Dec. 1.

Moler, Charles C., assignor to Overhead Door Corporation, Hartford City, Ind. Counterbalance for vertically sliding doors. 2,660,753, Dec. 1.

Moler, Charles C., assignor to Overhead Door Corporation, Hartford City, Ind. Reversible motor and control mechanism therefor. 2,661,450, Dec. 1.

Molnar, Imre, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Arrival and departure transportation indicator system. 2,661,465, Dec. 1.

Monroe, Charles Z., assignor to The Ex-Cell-O Corporation, Detroit, Mich. Wire feed for stapling machines. 2,661,032, Dec. 1.

Monsanto Chemical Company, assignee: *See*—
Butler, John M.
Dazzi, Joachim.
Folkers, Kern E.
Gamrath, Harry R., and Hatton.
High, Donald A.
Jenkins, Russell L.
Malowan, John E.
Mowry, David T., and Schlesinger.
Nason, Howard K., and Nielsen.
Nielsen, Morris L.
Schlesinger, Arthur H.
Schlesinger, Arthur H., and Mowry.
Shand, Lloyd D.
Slocombe, Robert J., and Wesp.
Wesp, George L., and Slocombe.

Moore, James C., assignor to The Oak Rubber Company, Ravenna, Ohio. Plaster molding rubber articles. 2,660,760, Dec. 1.

Moore, John F.: *See*—
Rety, Stephen P., and Moore.

Moore, Ralph G. D.: *See*—
Comer, Ann P., and Moore.

Morgan, Carl E., Grants Pass, Oreg., assignor of twenty-five percent to O. F. Crenshaw, and twenty-five percent to L. A. Davis, Dunsmuir, Calif. Car tow mechanism. 2,661,106, Dec. 1.

Morgan, Ralph E., assignor to The Timken Roller Bearing Company, Canton, Ohio. Removable oil pan assembly. 2,661,255, Dec. 1.

Morningstar, Alvie S., assignee: *See*—
Loyd, Jack.

Morris, Gordon: *See*—
Hennike, Anthony J., Morris, and Broady.

Morris, Harry A., assignor to C. V. Hill & Company, Inc., Trenton, N. J. Refrigerated display case. 2,660,864, Dec. 1.

Morris, Merchant C., Indianapolis, Ind. Flower shipping case. 2,661,144, Dec. 1.

Morris Paper Mills, assignee: *See*—
Arneson, Edwin L.

Morrison, Willard L., Lake Forest, assignor to Union Stock Yards & Transit Company, Chicago, Ill. Apparatus for composting animal manure. 2,660,809, Dec. 1.

Morrogh, Henton Alvechurch, assignor to The British Cast Iron Research Association, Birmingham, England. Production of cast iron. 2,661,281, Dec. 1.

Morse, Earl P., Wollaston, and F. Fornaro, North Quincy, Mass. Pivoted sheet metal flanging hand tool. 2,660,909, Dec. 1.

Mortensen, Everett N., assignor to Swift & Company, Chicago, Ill. Sewage treatment. 2,661,332, Dec. 1.

Mortka, John, Brooklyn, N. Y. Wing mounting for helicopter-airplane. 2,661,168, Dec. 1.

Morton Salt Company, assignee: *See*—
Bowes, Leslie H.

Moser, Frank T., Easton, Pa. Nozzle for making packaged sundaes. 2,660,964, Dec. 1.

Mouzon, James C.: *See*—
Wannamaker, William H., Jr., and Mouzon.

Mowry, David T.: *See*—
Schlesinger, Arthur H., and Mowry.

Mowry, David T., and A. H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Herbicidal composition. 2,661,275, Dec. 1.

Mowry, David T., and A. H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Herbicides. 2,661,277, Dec. 1.

Mueller Co., assignee: *See*—
Tinker, Earl E.

Mueller, George E., Columbus, Ohio, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-frequency amplifier. 2,661,441, Dec. 1.

Mullan, Daniel, Hillside, and H. Bauer, Newark, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Machine for turning fluorescent lamps and other elongated devices end for end. 2,661,101, Dec. 1.

Mullen, Edward, assignor to Mechanical Handling Systems, Inc., Detroit, Mich. Automatically adjusting power-operated tire and rim assembling apparatus. 2,661,053, Dec. 1.

Mundy, Michael L., North Bend, Nebr. Level indicating device for house trailers. 2,660,804, Dec. 1.

Mumper, James E., assignor, by mesne assignments, to Clevite Corporation, Cleveland, Ohio. Piezoelectric device. 2,661,432, Dec. 1.

Munch, Carsten J., Bronx, N. Y. Burglary and fire alarm. 2,661,394, Dec. 1.

Murphy, William H., Chicago, Ill. Pivot for chair arms or the like. 2,661,227, Dec. 1.

Murray, Leo M.: *See*—
Parker, Allen J., and Murray.

Napier, D., & Son Limited, assignee: *See*—
Barlow, Benjamin W., and Barnes.

Nash-Kelvinator Corporation, assignee: *See*—
Reindl, Francis H.

Nason, Howard K., and M. L. Nielsen, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Fire-resistant resinous product and producing same. 2,661,341, Dec. 1.

National Broach and Machine Company, assignee: *See*—
Praeg, Walter S.

National Cash Register Company, The, assignee: *See*—
Goodbar, Mayo A., Placke, and Falkner.
Werner, Frank R.

National Dairy Research Laboratories, Inc., assignee: *See*—
Spiess, Newton E., Jr., and Gropen.

National Research Development Corporation, assignee: *See*—
Philpot, John S.

National Starch Products Inc., assignee: *See*—
Caldwell, Carlyle G., and Wurzburg.

National Steel Corporation, assignee: *See*—
Smith, Edwin J.

National Supply Company, The, assignee: *See*—
Knox, Donald G.
Long, Spencer W.

National Union Radio Corporation, assignee: *See*—
Bekcers, Albert E.
Davenport, Edward J.

Naumann, Kurt F., Stony Creek Mills, assignor to Rosedale Knitting Company, Reading, Pa. Stocking. 2,660,868, Dec. 1.

Needham, Robert L., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Motor cradle. 2,661,172, Dec. 1.

Neidhart, Martin, Zug, and E. Koller, Winterthur, assignors to Dabo Ltd., Zug, Switzerland. Infinitely-variable change-speed gear. 2,660,897, Dec. 1.

Nepara Chemical Co. Inc., assignee: *See*—
Feinstone, Wolffe H., and Duesel.

Neugass, Edwin A., White Plains, N. Y. Instrument panel. 2,660,824, Dec. 1.

Neutelings, Theodoor R. and W., Bergen op Zoom, assignors to Industrie- en Handelmaatschappij "De Vuursiag" C. V., Roosendaal, Netherlands. Baking oven. 2,660,961, Dec. 1.

Neutelings, Willem: *See*—
Neutelings, Theodoor R. and W.

Newark Stove Company, assignee: *See*—
Chesser, Cecil E.

Nicholls, Kenneth H.: *See*—
Rose, Alfred G., and Nicholls.

Nielsen, Morris L.: *See*—
Nason, Howard K., and Nielsen.

Nielsen, Morris L., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Phosphorous oxychloride and ammonia reaction products in flame retarding compositions applied to cellulosic materials. 2,661,263, Dec. 1.

Nielsen, Morris L., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Cation exchange material having high mechanical strength. 2,661,337, Dec. 1.

Nisbet, James D., Schenectady, N. Y., assignor to General Electric Company. Precipitation hardenable iron base alloy. 2,661,284, Dec. 1.

Nixon, John E. A.: *See*—
Cooper, Victor J., and Nixon.

Noecker, Marshall V., Detroit, Mich. Sliding screen assembly. 2,661,059, Dec. 1.

Nordling, Selma, Alhambra, Calif. Child's play suit. 2,660,730, Dec. 1.

Nordstrom, Harry E., assignor of one-half to S. Zandlo, Minneapolis, Minn. Depth sounder. 2,660,795, Dec. 1.

Norman Products Company, assignee: *See*—
Reichelderfer, Charles A.

Norman, William S., Chester, assignor to C. D. Patents Limited, London, England. Apparatus for treating gases with liquids. 2,661,197, Dec. 1.

North American Aviation, Inc., assignee: *See*—
Gordon, Carroll G.
Rodgers, George H., Jr.

North American Rayon Corporation, assignee: *See*—
Kingsbury, Chadwick B.

Northern Pump Company, assignee: *See*—
Wilson, Richard C.

Northrop Aircraft, Inc., assignee: *See*—
Ashkenas, Irving L.

Norton Company, assignee: *See*—
Green, Clarence J.
Hill, Olva E.

Oak Rubber Company, The, assignee: *See*—
Moore, James C.

Ogle, Hugh M.: *See*—
Dunnegan, Ted, Jr., and Ogle.

Ohlander, Kjell P. A., assignor to Industrikemiska Aktiebolaget, Stockholm, Sweden. Device in heat exchanger. 2,661,200, Dec. 1.

Oldberg Manufacturing Company, assignee: *See*—
Deremer, Floyd E.

Orkin, Bernard, Philadelphia, Pa., assignor to Socony-Vacuum Oil Company, Incorporated. Oxidative dehydrogenation of cyclic hydrocarbons. 2,661,380, Dec. 1.

Osgood, Arthur B., and A. E. Swanson, assignor to The Day Company, Minneapolis, Minn. Air cleaner construction. 2,661,079, Dec. 1.

Osterkorn, Charles L., Flushing Heights, assignor to Fedders-Quigan Corporation, Buffalo, N. Y. Damper control means for air conditioning units. 2,660,945, Dec. 1.

Osti, Aldo P., and M. Balicki, Brooklyn, N. Y. Impregnated metal and producing same. 2,661,238, Dec. 1.

Otis, Stanley J., Madison, Wis. Electrical system for cyclic controls. 2,661,060, Dec. 1.

Ott, Charles W., Maywood, Ill. Device for visual training. 2,661,444, Dec. 1.

Overhead Door Corporation, assignee: *See*—
Moler, Charles C.

Owens, Cecil R., Long Beach, Calif. Method and means of pulling pipe from a well. 2,661,063, Dec. 1.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Bielfeld, Lawrence P.

Owens, Freeman H., New York, N. Y. Driving and locking means for apparatus having removable magazine. 2,661,162, Dec. 1.

Page, George J., and J. Harrison, assignors to The Spra-Con Company, Chicago, Ill. Apparatus for and method of painting. 2,661,310, Dec. 1.

Page, Richard S., Stretford, Manchester, England, assignor to General Electric Company. Focusing aid for electron microscopes. 2,661,427, Dec. 1.

Palmer-Bee Company, assignee: *See*—
Kew, George R.

Palmer, Richard C.: *See*—
Talamini, Arthur J., Jr., and Palmer.

Panoramic Laboratories, assignee: *See*—
Tongue, Ben H.

Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Multirow cotton harvester. 2,660,852, Dec. 1.

Parker, Allen J., and L. M. Murray, West Palm Beach, Fla. Seam ripping device. 2,660,787, Dec. 1.

Paterson Engineering Company, Limited, The, assignee: *See*—
Baily, Edgar W.

Paterson, John L., assignor to Willis Oil Tool Company, Long Beach, Calif. Rod rotator for deep well pumps. 2,660,893, Dec. 1.

Patterson, William J.: *See*—
Darrow, Merritt I., Biddinger, and Patterson.

Patton, Winifred M., Chicago, Ill. Key lever and type bar mounting for typewriting machines. 2,661,087, Dec. 1.

Paul, Harry, and J. T. Watts, Coventry, assignors to Courtaulds Limited, London, England. Making pigmented spinning solution. 2,661,299, Dec. 1.

Paul, Nicholas, Brooklyn, N. Y. Can stacking display device. 2,661,097, Dec. 1.

Peacock, Jesse L., assignee: *See*—
Martini, Herbert A.

Pennsylvania Crusher Company, assignee: *See*—
Keiper, Edwin H.

People of the United States, Dedicated to the free use of the, assignee: *See*—
Schechter, Milton S., and La Forge.

Pepie, Gustave A., Jr., deceased, Richmond, Va., by Bank of Commerce and Trusts, executor, Richmond, Va. Damper. 2,660,946, Dec. 1.

Percy, Kenneth H.: *See*—
Blackburn, Charles L., and Percy.

Perfection Stove Company, assignee: *See*—
Resek, Marc.

Pero, Josephine, executrix, assignee: *See*—
Pero, Peter J.

Pero, Peter J., deceased, Jersey City, N. J.: J. and P. P. Pero, executors, assignors to J. Pero, Jersey City, N. J. Fish lure. 2,660,827, Dec. 1.

Pero, Peter P., executor: *See*—
Pero, Peter J.

Peters, Donald C., Paola, Kans. Chaffer attachment. 2,661,005, Dec. 1.

Peters, Leo, Evanston, Ill. Recrystallizing or restabilizing oriented amorphous rubber hydrochloride film. 2,660,761, Dec. 1.

Peterson, Walter R., Hinsdale, Ill., assignor to International Harvester Company. Milk measuring and material feeding device. 2,661,122, Dec. 1.

Petrie & McNaught-Limited, assignee: *See*—
Walsh, John, and Dawson.

Petro-Chem Process Company Incorporated, assignee: *See*—
Wasp, Edward J., and Wallis.

Petterson, John C., Altadena, Calif. Door construction. 2,660,766, Dec. 1.

Philco Corporation, assignee: *See*—
Whitesel, Harry A.

Phillips Petroleum Company, assignee: *See*—
Fox, Homer M.
Hepp, Harold J.
Hudson, Thomas B.
Lanning, William C.
Wiley, Bruce F.

Philpot, John S., Didcot, assignor, by mesne assignments, to National Research Development Corporation, London, England. Interference microscope. 2,660,922, Dec. 1.

Pines, Herman, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Dehydrogenation of a cycloolefinic hydrocarbon containing a geminal carbon atom. 2,661,381, Dec. 1.

Placke, Everett H.: *See*—
Goodbar, Mayo A., Placke, and Falkner.

Poltz, Herbert A.: *See*—
Schiermeier, Kanpel F., and Poltz.

Polakowski, Marian, Chicago, Ill. Instrument for drawing conic sections. 2,660,790, Dec. 1.

Polaroid Corporation, assignee: *See*—
Land, Edwin H.

Pool, Stuart D., Moline, and E. M. Van Buskirk, East Moline, Ill., assignors to International Harvester Company. Retractable furrow opener. 2,660,939, Dec. 1.

Portlance, Napoleon J., Minneapolis, Minn. Simulated motor. 2,660,973, Dec. 1.

Powell, Winfred T., Rochester, N. Y., assignor to Stromberg-Carlson Company. Line finder with differential test relay. 2,661,396, Dec. 1.

Powers & Company, assignee: *See*—
Powers, Frank M., T. C., and D. W.

Powers, David W.: *See*—
Powers, Frank M., T. C. and D. W.

Powers, Frank M., River Forest, Ill., and T. C. and D. W. Powers, Philadelphia, Pa., assignors to Powers & Company. Tent. 2,661,010, Dec. 1.

Powers, Thomas C.: *See*—
Powers, Frank T., T. C. and D. W.

Praeg, Walter S., assignor to National Broach and Machine Company, Detroit, Mich. Shaving gears. 2,660,929, Dec. 1.

Prater Pulverizer Company, assignee: *See*—
Thomas, George F.

Precision Diamond Products Ltd., assignee: *See*—
Teather, Harry G.

Prescott, Norton U., Bath, N. Y. Musical instrument body. 2,660,912, Dec. 1.

Presswell, Richard W., Kensington, London, assignor to Telegraph Construction & Maintenance Company Limited, London, England. Electric cable. 2,661,389, Dec. 1.

Prototypa narodni podnik, assignee: *See*—
Diviśek, Vladislav.

Purdy, Hessel L., Braman, Okla. Loader and elevator attachment for vehicles. 2,661,105, Dec. 1.

Pure Oil Company, The, assignee: *See*—
Bond, Donald C.

Queitzsch, Karl E., York, Pa. Operating handle for rotary tools. 2,660,911, Dec. 1.

Racine Confectioners' Machinery Co., assignee: *See*—
Covert, Claude J., and Genich.

Rackett, Gerald F., Sherman Oaks, assignor to Columbia Pictures Corporation, Los Angeles, Calif. Stripping multilayer negatives. 2,661,290, Dec. 1.

Radde, Erich M. H., New York, N. Y. Dicyclohexyl ethane compounds and making same. 2,661,369, Dec. 1.

Radio Corporation of America, assignee: *See*—
Bedford, Alda V.
Goldstein, Irwin E.
Hansell, Clarence W.
Harvey, Robert L.
Jones, Loren F.
Lederer, Ernest A.
Linder, Ernest G.
Vance, Arthur W.
Van Ormer, David D.

Rauh, Rudolph K.: *See*—
Davis, Donald K., and Rauh.

Raytheon Manufacturing Company, assignee: *See*—
Buckbee, John A.

Reichelderfer, Charles A., assignor to Norman Products Company, Columbus, Ohio. Apparatus for the selective burning of different type gaseous fuels embodying a common burner element. 2,661,157, Dec. 1.

Reichert, Harold E., New Berlin, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Combined manual and speed responsive gas turbine control system. 2,661,429, Dec. 1.

Reichl Reymond M.: *See*—
Kent, Francis J., and Reichl.

Reid, George C., and S. S. Jacobs, Brooklyn, assignors to American Can Company, New York, N. Y. Container. 2,661,137, Dec. 1.

Reindl, Francis H., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Manifold. 2,660,988, Dec. 1.

Resek, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Gas burner head and secondary air baffle. 2,661,037, Dec. 1.

Rety, Stephen P., and J. F. Moore, London, England. Packaging machine. 2,660,843, Dec. 1.

Rheem Manufacturing Company, assignee: *See*—
James, Richard E., and Lampert.

Richards, Archer W.: *See*—
Woina, Benjamin A., and Richards.

Richards, Ithiel C., Los Angeles, Calif. Dispensing receptacle to be mounted to the neck of a container holding a liquid to be dispensed. 2,661,127, Dec. 1.

Richardson, Graham M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Textile finishing composition and treating textile materials therewith. 2,661,312, Dec. 1.

Rieke, Irvin H., assignor to Rieke Metal Products Corporation, Auburn, Ind. Tamper and seal proof flexible pouring spout. 2,661,128, Dec. 1.

Rieke Metal Products Corporation, assignee: *See*—
Rieke, Irvin H.

Rippon, Francis F. C., New York, N. Y. Container for movably storing articles. 2,661,259, Dec. 1.

Ritchey, James J., Columbus, Ohio. Orthopedic device. 2,660,814, Dec. 1.

Robert Building Inventions Limited, assignee: *See*—
Henderson, Robert.

Robertshaw-Fulton Controls Company, assignee: *See*—
Eskin, Samuel G., and Main.

Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,660,740, Dec. 1.

Robinson, Robert D., Uxbridge, Mass., and R. P. Jacques, Woonsocket, R. I., assignors to Bachmann Uxbridge Worsted Co., Inc., Uxbridge, Mass. Method and apparatus for applying liquids to fibers. 2,660,763, Dec. 1.

Robotyper Corporation, assignee: *See*—
Carlson, George W.

Roccato, Emilio, Como, Italy. Resilient anchoring assembly for dental prosthesis. 2,660,789, Dec. 1.

Rockoff, Joseph, Dayton, Ohio, assignor to The Dayton Rubber Company. Oil well packer. 2,661,064, Dec. 1.

Rodgers, George H., Jr., Inglewood, Calif., assignor to North American Aviation, Inc. Transfer resistor and making. 2,661,448, Dec. 1.

Rodgers, Nelson E.: *See*—
Francis, Leo H., and Rodgers.

Roe, A. V., Canada Limited, assignee: *See*—
Chamberlin, James A.

Rohm & Haas Company, assignee: *See*—
Schmidle, Claude J.

Rolinick & Gordon Limited, assignee: *See*—
Hill, Edgar A. G., and Lovatt.

Romberg, Joseph W., and R. N. Traxler, Port Neches, Tex., assignors to The Texas Company, New York, N. Y. Asphalt cutbacks. 2,661,300, Dec. 1.

Roosa, Vernon D., West Hartford, Conn. Automatic timing means for fuel pumps. 2,660,992, Dec. 1.

Rose, Alfred G., Gainsborough, and K. H. Nicholls, Bromley, England. Racing game apparatus. 2,661,214, Dec. 1.

Rose, Lawrence S., assignor to Lift-A-Line, Inc., Lorain, Ohio. Adjustable clothesline support. 2,661,179, Dec. 1.

Rosedale Knitting Company, assignee: *See*—
Naumann, Kurt F.

Rosenberg, Stig E., Brockton, Mass. Making dipped latex garment. 2,660,762, Dec. 1.

Roshko, Frank O., New Orleans, La. Crayfish picking machine. 2,660,754, Dec. 1.

Ross, James S., Waterloo, assignor to Deere Manufacturing Co., Dubuque, Iowa. Power train for vehicle power take-off shaft and auxiliary unit. 2,660,892, Dec. 1.

Rothstein, Jerome, Belmar, N. J. Level. 2,660,805. Dec. 1.

Rowe, George E., Wethersfield, Conn., assignor to Emhart Manufacturing Company. Glassware takeout apparatus. 2,660,831, Dec. 1.

Roy, Rene, Plessisville, Quebec, Canada. Spare tire carrier. 2,661,131, Dec. 1.

Rubber-Stichting, assignee: *See*—
Van Veersen, Gerardus J.

Rush, John W., Wilkinsburg, and G. T. McClure, McKeesport, Pa., assignors to Westinghouse Air Brake Company. Brake control apparatus. 2,661,247, Dec. 1.

Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Baler. 2,660,949, Dec. 1.

Rust, John D., Pine Bluff, Ark. Cotton harvester with retriever mechanism. 2,660,848, Dec. 1.

Rust, John D., Pine Bluff, Ark. Spindle moistener. 2,660,850, Dec. 1.

Ryals, John T., Unionville, Mo. Vertically-adjustable tree-felling tractor mounted saw. 2,661,035, Dec. 1.

Ryder, John D.: *See*—
Boast, Warren B., and Ryder.

Ryder, Robert W., assignee: *See*—
Kurzbin, Karl R.

Sacrey, Elmer P., deceased, Syracuse, N. Y., assignor to C. C. Brown, Jr., executor. Templet and supporting frame for locating hinge butt recesses in doors and doorframes. 2,660,803, Dec. 1.

Salmonson, Sven, Stockholm, Sweden. Paper roll holder. 2,661,165, Dec. 1.

Salomonsson, Sven G., assignor to Aktiebolaget Färe Armaturfabrik, Sibbhult, Sweden. Washing-up machine. 2,661,240, Dec. 1.

Salzman, Charles F., Jr., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Multiple range recorder. 2,661,260, Dec. 1.

Sandberg, Ray A., Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Heat exchanger. 2,661,191, Dec. 1.

Sands, Walter, Minneapolis, Minn. Golf bag and stand. 2,661,174, Dec. 1.

Sappey, Harold: *See*—
Alstadt, Benjamin, and Sappey.

Saraga, Wolja, Petts Wood, Orpington, assignor to Telephone Manufacturing Company, Limited, London, England. Phase splitting network. 2,661,458, Dec. 1.

Savage, Harry K., Downey, Calif. Method and apparatus for extracting volatile constituents from carbonaceous materials. 2,661,325, Dec. 1.

Sawyer, Alton L., Morristown, N. J. Refining vessel draw-off system. 2,661,093, Dec. 1.

Sax, Norbert W.: *See*—
Kimel, Walter, and Sax.

Saywell Associates, assignee: *See*—
Saywell, Lawrence G.

Saywell, Lawrence G., San Mateo, assignor to Saywell Associates, South San Francisco, Calif. Sealing assembly. 2,661,226, Dec. 1.

Schechter, Milton S., Washington, D. C., and F. B. La Forge, North Arlington, Va., dedicated to the free use of the People of the United States. Synthesis of 4-hydroxy-2-cyclopenten-1-ones. 2,661,374, Dec. 1.

Schein, Harry L., assignor to Merkantila Ingenlörsbyrån Pehr Husberg Aktiebolag, Stockholm, Sweden. Purification of water. 2,661,333, Dec. 1.

Schenkelberger, Frank J.: *See*—
Snyder, Jacob R., and Schenkelberger.

Schenley Industries, Inc., assignee: *See*—
Hiltmann, Rudolf, and Bauer.

Scheuermann, Otto G., Westfield, assignor to Conmar Products Corporation, Newark, N. J. Length control for slide fastener machines. 2,661,044, Dec. 1.

Schicht, Heinrich, Huckeswagen, assignor to W. Ferd. Klingelnberg Sohne, Remlscheid-Berghausen, Germany. Tooth face grinder. 2,660,839, Dec. 1.

Schiermeier, Knapel F., and H. A. Poltz, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif. Rust inhibiting composition. 2,661,296, Dec. 1.

Schlecht, Leo: *See*—
Ackermann, Karl, and Schlecht.

Schlesinger, Arthur H.: *See*—
Mowry, David T., and Schlesinger.

Schlesinger, Arthur H., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Herbicidal compositions. 2,661,273, Dec. 1.

Schlesinger, Arthur H., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Herbicidal compositions. 2,661,274, Dec. 1.

Schlesinger, Arthur H., and D. T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Herbicides. 2,661,276, Dec. 1.

Schmidle, Claude J., Moorestown, N. J., assignor to Rohm & Haas Company, Philadelphia, Pa. Preparation of benzoins and furoins. 2,661,354, Dec. 1.

Schmidt, Edgar H.: *See*—
Johnson, Charles R., and Schmidt.

Schmidt, Fred W., Jr., Cedar Grove, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Band pass filter circuit. 2,661,459, Dec. 1.

Schmidt, Karl, Gesellschaft mit Beschraenkter Haftung, assignee: *See*—
Kuhm, Max.

Schmitt, Page M., Bethesda, Md., assignor to Taub Engineering Company, Washington, D. C. Variable speed and direction power unit. 2,660,861, Dec. 1.

Schnürle, Adolf, deceased, J. Kopf, O. Elwert, and E. Hörz, Stuttgart, Germany; said Kopf, said Elwert, and said Hörz assignors to said Schnürle; G. Schnürle, sole heir of said A. Schnürle. Two-stroke engine with scavenging air blower. 2,660,989, Dec. 1.

Schnürle, Gertrud, heir: *See*—
Schnürle, Adolf, Kopf, Elwert, and Hörz.

Schonrock, Edwin A., San Angelo, Tex. Winch and spring suspension construction for dump trailers. 2,661,236, Dec. 1.

Schöpf, Clemens: *See*—
Külz, Fritz, and Schöpf.

Schöpf, Clemens, and K. J. Kunz, Darmstadt, assignors to Troponwerke Dinklage & Co., Koln-Mulheim, Germany. Pharmacologically valuable stereoisomers of certain amino alcohols and their salts. 2,661,372, Dec. 1.

Schroeder, Arthur C., Skaneateles, N. Y. Carton handling apparatus. 2,660,844, Dec. 1.

Schroeder, Willard F.: *See*—
McEwen, Robert L., Sheldon, and Schroeder.

Schulthess, Ernest, South Orange, N. J. Oil hose. 2,661,026, Dec. 1.

Schulze and Burch Biscuit Company, assignee: *See*—
Fay, Joseph W. and R. J.

Schutte, August H., Hastings on Hudson, assignor to The Lummus Company, New York, N. Y. Hydrocarbon conversion process and regeneration of fouled contact material utilizing flue gas and steam as the gas lift. 2,661,321, Dec. 1.

Schwab, Arthur W., C. D. Evans, and P. M. Cooney, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Stabilization of glyceride oils. 2,661,358, Dec. 1.

Schwartz, Lyle P.: *See*—
MacLaren, Frederick H., and Schwartz.

Schweizerische Lokomotive- und Maschinenfabrik, assignee: *See*—
Borgeaud, Gaston, and Waldvogel.

Schwitzer-Cummins Company, assignee: *See*—
Englander, Imre A.

Searle, G. D., & Co., assignee: *See*—
Cusic, John W.
Huffman, Max N.

Searle, Norman E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. 1-cyclohexyl-3, 3-dialkylureas and their use as herbicides. 2,661,272, Dec. 1.

Sears, Roebuck and Co., assignee: *See*—
Cox, Oscar C.

Seaton, Harold E., and C. H. Baker, Shelby, Ohio. Golf ball holder. 2,661,129, Dec. 1.

Seavey, Gordon C.: *See*—
Horsley, Caperton B., and Seavey.

Sebel, Harry, London, England. Combination chair and desk. 2,661,049, Dec. 1.

Sego, Harold C., Kansas City, Mo. Grain bed for vehicles. 2,661,104, Dec. 1.

Sellers, Albert E. G., Radnor, Pa. Ratchet wrench. 2,660,910, Dec. 1.

Sel-Set Company, assignee: *See*—
Balch, Theodore H.
Balch, Theodore H., and Van De Mark.

Servel, Inc., assignee: *See*—
Daley, Bernard A.

Sexton, Everett P., East McKeesport, Pa., assignor to Westinghouse Air Brake Company. Fluid pressure brake apparatus. 2,661,246, Dec. 1.

Shabeck, John C. L., Jr., Waltham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Electrical switch. 2,661,408, Dec. 1.

Shain, David L., Harrisburg, Ill. Outdoors coin depository. 2,661,149, Dec. 1.

Shaler, Saul, Jackson Heights, N. Y. Wood scraper. 2,660,785, Dec. 1.

Shand, Lloyd D., Stoneham, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Compositions and methods of coating glass and coated glass articles. 2,661,438, Dec. 1.

Shanley, Connor B., Kirkwood, Mo. Composition for use in sand molding. 2,661,298, Dec. 1.

Shapiro, Isadore, Chicago, Ill., assignor, by mesne assignments, to A. R. Hyde & Sons Company. Track shoe. 2,660,813, Dec. 1.

Sheldon, Fred R.: *See*—
McEwen, Robert L., Sheldon, and Schroeder.

Shell Development Company, assignee: *See*—
Dickey, Frank H.
Hulsman, Albert J.
McKenna, Thomas G., Soloway, Lidov, and Hyman.
Milmore, Oswald H.
Schlermeier, Knapel F., and Poitz.
Stewart, William B.
Van Bemmel, Pieter M., and Milborn.

Shire, William A.: *See*—
Friden, James E., and Shire.

Shire, William A., Jr., Munster, Ind., assignor to Standard Oil Company, Chicago, Ill. Hydrogen fluoride purification. 2,661,319, Dec. 1.

Shur, Ira: *See*—
Helmann, Heinrich, and Shur.

Sidel, Kennith S., St. Louis, Mo. Vehicle door construction forming bed. 2,661,233, Dec. 1.

Siegel, Melvin, East Paterson, N. J. Weft stop motion for narrow fabric looms. 2,661,028, Dec. 1.

Sifferd, Robert H., Joliet, assignor, by mesne assignments, to Armour and Company, Chicago, Ill. Separation of bile acids. 2,661,356, Dec. 1.

Signode Steel Strapping Company, assignee: *See*—
Crosby, George A., and Ericsson.

Silver, Marshall, Huntington Woods, Mich. Fluid stirring device. 2,661,193, Dec. 1.

Silverman, Julia E., New York, N. Y. Protective orthopedic garment. 2,661,002, Dec. 1.

Simms, Howard N.: *See*—
Coffman, Robert S., and Simms.

Sinclair Refining Company, assignee: *See*—
Beckberger, La Vern H., and Woerner.

Skelton, William E., and H. V. Hess, Beacon, G. B. Arnold, Glenham, and B. L. Mahan, Beacon, assignors to The Texas Company, New York, N. Y. Separation of wax constituents and the like from oil. 2,661,317, Dec. 1.

Sklenar, Lester J., assignor to Illinois Tool Works, Chicago, Ill. Key member to prevent accidental release of a fluorescent tube from its socket. 2,661,462, Dec. 1.

Slaughter, Bernard J., Jr., assignor to The Crane & Breed Casket Company, Cincinnati, Ohio. Sealing gasket. 2,661,229, Dec. 1.

Slifkin, Sam C., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Antidiffusion diazotypes having tetrazo diphenyls as the light sensitive agent. 2,661,291, Dec. 1.

Slocombe, Robert J.: *See*—
Wesp, George L., and Slocombe.

Slocombe, Robert J., Dayton, and G. L. Wesp, Englewood, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Stabilized acrylonitrile polymers. 2,661,343, Dec. 1.

Slocombe, Robert J., Dayton, and G. L. Wesp, Englewood, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Stabilized acrylonitrile polymers. 2,661,344, Dec. 1.

Slocombe, Robert J., Dayton, and G. L. Wesp, Englewood, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Stabilized acrylonitrile polymers. 2,661,345, Dec. 1.

Smalley, Oliver, Larchmont, N. Y., assignor to Meehanite Metal Corporation. Lithium treated cast iron. 2,661,283, Dec. 1.

Smith, Edwin J., Weirton, W. Va., assignor to National Steel Corporation. Flow-brightening tinplate 2,661,328, Dec. 1.

Smith, Frank M.: *See*—
Smith, Leland H., and F. M.

Smith, Harry R., Glen Ridge, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Television keystone balance control circuit. 2,661,443, Dec. 1.

Smith, Leland H., and F. M. Smith, Grenville, N. Y. Method and apparatus for producing textured films. 2,660,757, Dec. 1.

Smoot, Van, Houston, Tex. Bit lifter and stabber. 2,661,188, Dec 1.

Snow, Herbert R.: *See*—
Snow, Raymond M., and H. R.

Snow, Raymond M. and H. R., Fresno, Calif. Offset boring head. 2,661,218, Dec. 1.

Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Drum valve assembly. 2,661,018, Dec. 1.

Snyder, Jacob R., and F. J. Schenkelberger, assignors to Thompson Products, Inc., Cleveland, Ohio. Automatic venting drum cap and valve assembly. 2,661,019, Dec. 1.

Socke, John E.: *See*—
Woolford, Custis S., and Socke.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Lichty, Lester C.
Orkin, Bernard.

Soloway, Samuel B.: *See*—
McKenna, Thomas G., Soloway, Lidov, and Hyman.

Sommer, Alfred, Iver, assignor to Electric & Musical Industries Limited, Hayes, England. Manufacturing mosaic screens for use in television transmitting tubes. 2,661,304, Dec. 1.

Sonic Research Corporation, assignee: *See*—
Horsley, Caperton B., and Seavey.

Spain, Roy C., Salem, Va., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Side bar cylinder lock. 2,660,876, Dec. 1.

Sparks, William J., A. H. Gleason, and P. K. Frolich, Westfield, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Blends of resinous styrene-conjugated diene copolymers and rubbery materials. 2,661,339, Dec. 1.

Spase, Charles B., Nedrow, assignor to Lipe-Rollway Corporation, Syracuse, N. Y. Friction clutch with lever fulcrum ring assembly. 2,661,086, Dec. 1.

Spencer, Alvin C., Corona Del Mar, Calif. Dispensing container having a slidable bottom forming a follower. 2,661,126, Dec. 1.

Sperry Corporation, The, assignee: *See*—
Curry, Robert S., Jr., and Halpert.
Goertz, Raymond C., and Hull.
Holschuh, Carl G., Hammond, and White.

Spiess, Newton E., Jr., Oakdale, Islip, and E. M. Gropen, East Northport, assignors to National Dairy Research Laboratories, Inc., Oakdale, Islip, N. Y. Container and closure therefor. 2,661,119, Dec. 1.

Spra-Con Company, The, assignee: *See*—
Page, George J., and Harrison.

Sprenger, John H., and R. L. Jefferson, San Antonio, Tex. Folding patrol stop flag. 2,660,975, Dec. 1.

Standard Gage Company, Inc., assignee: *See*—
Delaney, John E.

Standard Oil Company, assignee: *See*—
Friden, James E., and Shire.
Lien, Arthur P., and McCaulay.
MacLaren, Frederick H., and Schwartz.
Shire, William A., Jr.

Standard Oil Development Company, assignee: *See*—
Wadley, Edward F., and Horeczy.

Stanolind Oil and Gas Company, assignee: *See*—
Lummus, James L.

Starline Inc., assignee: *See*—
Ferris, Robert G.

Steffan, Joseph J., deceased, St. Louis, Mo., J. A. Steffan and D. H. Williams, executors. Doorframe. 2,661,084, Dec. 1.

Steffan, Julius A., executor: *See*—
Steffan, Joseph.

Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle with vertically adjustable lenses. 2,660,924, Dec. 1.

Stevens, Fred H., Houston, Tex. Card shuffler. 2,661,215, Dec. 1.

Stewart, William B., Scarsdale, N. Y., assignor to Shell Development Company, San Francisco, Calif. Variable volume separator for liquids. 2,661,094, Dec. 1.

Stickler, Charles W., Jr., Reading, Pa. Automatic safety car stop. 2,660,959, Dec. 1.

Stillman, Albert L., Plainfield, N. J., assignor to Fuel Research Corporation, New York, N. Y. Manufacturing briquettes. 2,661,326, Dec. 1.

Stock, Arthur J., Cleveland, Ohio. Air lock coal scale. 2,661,181, Dec. 1.

Stoelting, Herman O., assignor to McGraw Electric Co., Milwaukee, Wis. Lightning arrester. 2,661,439, Dec. 1.

Stone & Webster Engineering Corporation, assignee: *See*—
Kirkpatrick, Alton.

Stone, William, Jr., Cambridge, Mass. Movable postenucleated implant. 2,660,732, Dec. 1.

Strauss, Theodore O., New York, N. Y. Lathe attachment. 2,660,799, Dec. 1.

Stromberg-Carlson Company, assignee: *See*—
Powell, Winfred T.

Studebaker Corporation, The, assignee: *See*—
Bushong, Harry F.
French, Charles W.

Stuivenberg, Cornelis H., Haarlem, Netherlands. Checking device for perforator and perforator tapes. 2,660,888, Dec. 1.

Styrén, Knut O. I., Malarhojden and H. Jeffersson, assignors to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden. Variable resistance signaling system. 2,661,395, Dec. 1.

Sullivan, Frederick, Wilmington, assignor to Arthur D. Little, Inc., Cambridge, Mass. Electropolishing sterling silver. 2,661,330, Dec. 1.

Svenska Aktiebolaget Gasaccumulator, assignee: *See*—
Aversten, Karl J.

Swain, Kathleen R., assignee: *See*—
Swain, Lloyd S.

Swain, Lloyd S., assignor to K. R. Swain, Martinsville, Va. Hack saw guard. 2,660,974, Dec. 1.

Swanson, Arden E.: *See*—
Osgood, Arthur B., and Swanson.

Swanson, Willis R.: *See*—
Hyatt, Edwin C., Lyon, and Swanson.

Swartz, John W., Dearborn, Mich. Drinking fountain attachment for faucets. 2,661,237, Dec. 1.

Swazy, Earl F., R. H. Freyer, and L. S. Busch, assignors, by mesne assignments, to Mallory-Sharon Titanium Corporation, Indianapolis, Ind. Titanium base alloys containing silicon. 2,661,286, Dec. 1.

Swearingen, George H., Louisville, Ky. Tobacco drier. 2,660,995, Dec. 1.

Swenson, William E., St. Paul, assignor to Minneapolis-Moline Company, Hopkins, Minn. Transmission. 2,660,900, Dec. 1.

Swift & Company, assignee: *See*—
Darrow, Merritt L., Biddinger, and Patterson.
Mortenson, Everett N.

Tackett, Oscar W.: *See*—
Howell, Albert R., and Tackett.

Talamini, Arthur J., Jr., Caldwell Township, Essex County, and R. C. Palmer, Nutley, assignors to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Sweep generator protection circuit. 2,661,421, Dec. 1.

Talley, Maurice L., Arlington, Va. Plural filter support and actuating mechanism. 2,660,926, Dec. 1.

Talon, Inc., assignee: *See*—
Dorman, Leonard M.

Tamm, Emil S., Plainfield, N. J., assignor to The Hoover Company, North Canton, Ohio. Instantly reversing motor 2,661,451, Dec. 1.

Taub, Alex, assignor to Taub Engineering Company, Washington, D. C. Variable speed and direction power unit. 2,660,860, Dec. 1.

Taub Engineering Company, assignee: *See*—
Schmitt, Page M.
Taub, Alex.

Teather, Harry G., assignor to Precision Diamond Products Ltd., London, England. Abrasive wheel dressing tool. 2,660,994, Dec. 1.

Telefonaktiebolaget L M Ericsson, assignee: *See*—
Styrén, Knut O. I., and Jefferson.

Telegraph Construction & Maintenance Company Limited, assignee: *See*—
Presswell, Richard W.

Helephone Manufacturing Company Limited, assignee: *See*—
Saraga, Wolja.

Texas Company, The, assignee: *See*—
Evans, Leon M.
Keith, John W.
Romberg, Joseph W., and Traxler.
Skelton, William E., Hess, Arnold, and Mahan.

Thomas, George F., assignor to Prater Pulverizer Company, Chicago, Ill. Multiple screen pulverizer. 2,661,159, Dec. 1.

Thomas, Yepple, Fresno, Calif. Spring mounted leveler for ground pulverizers. 2,660,817, Dec. 1.

Thompson, Glenn A., Pittsburgh, Pa. Portable hammering machine. 2,660,724, Dec. 1.

Thompson Products, Inc., assignee: *See*—
Alldredge, Marshall H.
De Vileg, Charles B.
De Vileg, Charles B., H. R., and C. R.
French, Oliver S.
French, Oliver S., and Marquis.
Marquis, Donald P.
Snyder, Jacob R.
Snyder, Jacob R., and Schenkelberger.

Thornton, Jens, Quincy, assignor to The Independent Nail and Packing Company, Inc., Bridgewater, Mass. Nail feeding and driving implement. 2,660,727, Dec. 1.

Thorton, King N., West Palm Beach, Fla. Spinal column aligning table. 2,660,999, Dec. 1.

Thorton, Mathew H., St. Paul, Minn. Glare-shielding device. 2,660,728, Dec. 1.

Tickner, Alvin J., Washington, D. C. Flux measuring system. 2,661,455, Dec. 1.

Timken Roller Bearing Company, The, assignee: *See*—
Bergstrom, Albert L.
Morgan, Ralph E.

Tinker, Earl E., assignor to Mueller Co., Decatur, Ill. Strainer. 2,661,096, Dec. 1.

Tinker, Walter H., and H. C. Weber, St. Louis, Mo., assignors to Fairbanks, Morse & Co., Chicago, Ill. Fluid pump assembly. 2,660,953, Dec. 1.

Tipton, Phillip R., Chandler, and W. F. Borgerd, Evansville, Ind., assignors to International Harvester Company. Window mounted air conditioner. 2,660,866, Dec. 1.

Tirrell, George E., Greenfield, Mass., assignor to A. B. Farquhar Company, York, Pa. Mist blower. 2,661,239, Dec. 1.

Tongue, Ben H., Westfield, N. J., assignor, by mesne assignments, to M. Wallace, doing business as Panoramic Laboratories, East Port Chester, Conn. Wide band spectrum analyzer. 2,661,419, Dec. 1.

Transicold Corporation, assignee: *See*—
Durant, Wilbur G.

Traxler, Ralph N.: *See*—
Romberg, Joseph W., and Traxler.

Trigwell, William G., Capitola, assignor to Chapman Dehydrator Co., Inc., Modesto, Calif. Tray stacking machine. 2,661,102, Dec. 1.

Troponwerke Dinklage & Co., assignee: *See*—
Schöpf, Clemens, and Kunz.

Turner, Arthur F., Brighton, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Light reflector which transmits infrared rays. 2,660,925, Dec. 1.

225 Enterprises Inc., assignee: *See*—
Clark, Francis R., and West.

Union Stock Yards & Transit Company, assignee: *See*—
Morrison, Willard L.

United Aircraft Corporation, assignee: *See*—
Chamberlain, John.

United-Carr Fastener Corporation, assignee: *See*—
Shabeck, John C. L., Jr.

United Engineering Company, assignee: *See*—
Daniel, David M.

United Shoe Machinery Corporation, assignee: *See*—
Imhof, Herman A.
Levesque, Henry R.
Robinson, Charles A.

United States Automatic Box Machinery Company, Inc., assignee: *See*—
Clement, Ernest C.

U. S. Slicing Machine Company, Inc., assignee: *See*—
Van Duyn, Adrianus.

United States Steel Corporation, assignee: *See*—
Bills, Max E.

Universal Oil Products Company, assignee: *See*—
Leffer, Frederick W.
Pines, Herman, and Ipatieff.

Van Bemmel, Pieter M., and H. Milborn, Delft, Netherlands, assignors to Shell Development Company, Emeryville, Calif. Method and apparatus for atomizing liquids. 2,661,195, Dec. 1.

Van Buskirk, Ernest M.: *See*—
Pool, Stuart D., and Van Buskirk.

Vance, Arthur W., Cranbury, N. J., assignor to Radio Corporation of America. Computing device. 2,661,153, Dec. 1.

Vance, John E., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,661,078, Dec. 1.

Van Degrift, Thomas C., assignor to General Motors Corporation, Detroit, Mich. Creep testing of high-temperature alloys. 2,660,881, Dec. 1.

Van De Mark, Ray F.: *See*—
Balch, Theodore H., and Van De Mark.

Van Duyn, Adrianus, Hillegersberg, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Inc., La Porte, Ind. Over and underweight scale. 2,661,202, Dec. 1.

Van Fossen, Paul: *See*—
Fuller, Mack F., and Van Fossen.

Van Ormer, David D., Lancaster, Pa., assignor to Radio Corporation of America. Ion trap gun. 2,661,436, Dec. 1.

Van Veersen, Gerardus J., The Hague, assignor to Rubber-Stichting, Delft, Netherlands. Manufacture of cyclized rubber. 2,661,340, Dec. 1.

Vaughn, Sidney P., San Diego, Calif. Sponge cleaning device. 2,660,747, Dec. 1.

Veatch, Joseph G., Jr.: *See*—
Daily, Arthur M., and Veatch.

Vendo Company, The, assignee: *See*—
Menning, Ralph H., and Manley.

Veneziano, Joseph B., Brooklyn, N. Y. Device for washing oil tanks with water and the like devices. 2,661,241, Dec. 1.

Vihtelic, Frank G.: *See*—
Wilcox, Raymond J., and Vihtelic.

Vilter Manufacturing Co., The, assignee: *See*—
Koth, Ervin A.

Vivian, Arthur C., London, England. Apparatus for use in determining the ultimate tensile strength of steel under impact conditions. 2,660,880, Dec. 1.

Voda, John J.: *See*—
Wallenbrock, Ralph E., and Voda.

Voight, George A., Shiocton, Wis. Hay bale depositing device. 2,660,855, Dec. 1.

W. Ferd. Klingelnberg Sohne, assignee: *See*—
Schicht, Heinrich.

Wadley, Edward F., Baytown, and J. T. Horeczy, Cedar Bayou, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Removal of oxygenated organic compounds from hydrocarbons. 2,661,362, Dec. 1.

Wagner, Harold H., assignor to Caterpillar Tractor Co., Peoria, Ill. Dual control mechanism. 2,660,902, Dec. 1.

Wald Industries, Inc., assignee: *See*—
Horn, John C., and Wilson.

Walden Kohinoor, Inc., assignee: *See*—
Helmann, Heinrich, and Shur.

Waldvogel, Jakob: *See*—
Borgeaud, Gaston, and Waldvogel.

Wales-Strippit Corporation, assignee: *See*—
Zumwalt, Robert F.

Walker, Brooks, Piedmont, Calif. Venetian blind parts. 2,661,058, Dec. 1.

Walker, Robert E., assignor to Boeing Airplane Company, Seattle, Wash. Air-moisture separator. 2,661,076, Dec. 1.

Wallace, Marcel, assignee: *See*—
Tongue, Ben H.

Wallen, Russell J., Minneapolis, Minn. Adjustable doorstop. 2,660,750, Dec. 1.

Wallenbrock, Ralph E., and J. J. Voda, Evansville, Ind., assignors to International Harvester Company. Breaker strip construction. 2,661,117, Dec. 1.

Wallis, John S.: *See*—
Wasp, Edward J., and Wallis.

Walser, Henry J., White Plains, N. Y. Mounting for timing units. 2,661,173, Dec. 1.

Walsh, Conrad L., W. B. Hawes, and F. Fouiger, assignors to A. S. P. Chemical Company Limited, Bulstrode, Gerrards Cross, England. Soil stabilization. 2,661,297, Dec. 1.

Walsh, Edward J., Tenafly, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Making a fine wire mesh. 2,661,029, Dec. 1.

Walsh, James A., assignor to The Armstrong Rubber Company, West Haven, Conn. Tread construction for tire casings. 2,661,041, Dec. 1.

Walsh, John, and H. Dawson, Rochdale, assignors to Petrie & McNaught Limited, Rochdale, Lancashire, England. Drying machine for grass and other crops. 2,660,807, Dec. 1.

Walters Manufacturing Company, assignee: *See*—
Weinthal, Stanley E., and S. A. and L. J. Flowers.

Walworth Company, assignee: *See*—
Davis, Ralph P.

Walz, Claude W., Rock Island, and H. F. Clausen, assignors to Deere & Company, Moline, Ill. Frame construction for planters. 2,660,967, Dec. 1.

Wannamaker, William H., Jr., Flourtown, and J. C. Mouzon, Wyndmoor, Pa., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,661,454, Dec. 1.

Wannop, Henry W., Skytop, Pa. Wall hook. 2,661,098, Dec. 1.

Ward, Arthur, assignor to International Paint Company, Inc., New York, N. Y. Power-driven cleaning brush. 2,660,746, Dec. 1.

Warner, Arthur J., Glen Ridge, and A. R. Gobat, North Caldwell, assignors to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Primary cells. 2,661,388, Dec. 1.

Wasielewski, Eugene W., South Euclid, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Supercharger driving control. 2,660,991, Dec. 1.

Wasp, Edward J., Brooklyn, and J. S. Wallis, assignors to Petro-Chem Process Company Incorporated, New York, N. Y. Fluid heater. 2,660,996, Dec. 1.

Wasserman, Lee S., assignor to The Globe Industries, Inc., Dayton, Ohio. Circuit maker and breaker. 2,661,404, Dec. 1.

Waterous Company, assignee: *See*—
Waterous, Fred A.

Waterous, Fred A., assignor to Waterous Company, St. Paul, Minn. Priming arrangement for centrifugal pumps. 2,660,956, Dec. 1.

Waters, Daniel V.: *See*—
Hicks, William T., and Waters.

Waters, Daniel V., Lebanon, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Indexing mechanism. 2,660,895, Dec. 1.

Watson, Raymond H., Greenfield, Ohio. Stay in gear. 2,660,903, Dec. 1.

Watts, John T.: *See*—
Paul, Harry, and Watts.

Weber, Henry C.: *See*—
Tinker, Walter H., and Weber.

Weber, Henry C., St. Louis, Mo., assignor to Fairbanks, Morse & Co., Chicago, Ill. Air volume control for water supply systems. 2,660,954, Dec. 1.

Weber, John C., Jr., assignor to West Virgina Glass Specialty Company, Weston, W. Va. Device for supporting glassware in burning-off operations. 2,660,833, Dec. 1.

Webley, Reginald S.: *See*—
Lubszynski, Hans G., and Webley.

Webster, Thomas J., assignor to The British Oxygen Company Limited, London, England. Apparatus for determination of the temperature of deposition of electrically nonconducting solids from gases. 2,660,882, Dec. 1.

Weingart, Ben, Los Angeles, Calif. Means for positioning and holding fasteners in explosively actuated fastener driving tools. 2,660,726, Dec. 1.

Weinthal, Stanley E., Pittsburgh, and S. A. and L. J. Flowers, assignors to Walters Manufacturing Company, Oakmont, Pa. Cabinet door hinge. 2,661,085, Dec. 1.

Welsh, Charles E., and N. G. Holdstock, Schenectady, N. Y., assignors to General Electric Company. Preparing polysiloxane resins. 2,661,348, Dec. 1.

Werner, Frank R., assignor to The National Cash Register Company, Dayton, Ohio. Web feeding mechanism for cash registers and the like. 2,661,061, Dec. 1.

Wesp, George L.: *See*—
Slocombe, Robert J., and Wesp.

Wesp, George L., Englewood, and R. J. Slocombe, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Stabilized acrylonitrile polymers. 2,661,346, Dec. 1.

Wesp, George L., Englewood, and R. J. Slocombe, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Stabilized acrylonitrile polymers. 2,661,347, Dec. 1.

West, Carl J., Jr.: *See*—
Clark, Francis R., and West.

West, Edward E., Richmond, Va., assignor to The Chase Bag Company, New York, N. Y. Bag filling machine with rotatable bag carrier having expandable and contractable bag engaging fingers. 2,661,132, Dec. 1.

West, Edward E., Richmond, Va. Knot tying mechanism. 2,661,230, Dec. 1.

West Virginia Glass Specialty Company, assignee: *See*—
Weber, John C., Jr.

Western Condensing Company, assignee: *See*—
Francis, Leo H., and Rodgers.
Meade, Reginald E.

Western Electric Company, Incorporated, assignee: *See*—
Hicks, William T., and Waters.
Waters, Daniel V.

Western, James A., assignor to Detroit Hoist and Machine Company, Detroit, Mich. Safety down limit switch for cable hoists. 2,661,405, Dec. 1.

Westinghouse Air Brake Company, assignee: *See*—
Bent, Arthur J.
Laber, Ernest J.
Rush, John W., and McClure.
Sexton, Everett P.

Westinghouse Electric Corporation, assignee: *See*—
Bennighof, Ralph R.
Foster, Newton C.
Gelpi, Maurice J.
Mulban, Daniel, and Bauer.

White, Walter T.: *See*—
Holschuh, Carl G., Hammond, and White.

Whitesel, Harry A., Abington, assignor to Philco Corporation, Philadelphia, Pa. Clothes drying system. 2,660,806, Dec. 1.

Wilcox, Raymond J., Grosse Pointe Farms, and F. G. Vihtelic, Dearborn, Mich., assignors, by mesne assignments, to Ebaloy, Incorporated, Chicago, Ill. Treatment of steel. 2,661,279, Dec. 1.

Wiley, Bruce F., Bartlesville, Okla., assignor to Phillips Petroleum Company. Borehole hydraulic measuring apparatus. 2,660,800, Dec. 1.

Williams, Dolores H., executrix: *See*—
Steffan, Joseph J.

Williams, Warren J., Richmond Hill, N. Y. Folding berth and seating unit. 2,660,733, Dec. 1.

Willis Oil Tool Company, assignee: *See*—
Paterson, John L.

Wilson, Herbert W., assignor to The Hoover Company, North Canton, Ohio. Rest for electric irons. 2,660,820, Dec. 1.

Wilson, Richard C., Minneapolis, assignor to Northern Pump Company, Fridley, Minn. Pivotal construction. 2,661,228, Dec. 1.

Wilson, Rosser L., Mahwah, N. J., assignor to American Brake Shoe Company, New York, N. Y. Control apparatus. 2,661,403, Dec. 1.

Wilson, Rufus W.: *See*—
Horn, John C., and Wilson.

Wiseman, Albert C., Crooksville, Ohio. Bracket with trotline ring. 2,660,972, Dec. 1.

Woerner, Rudolph C.: *See*—
Beckberger, La Vern H., and Woerner.

Woina, Benjamin A., Salem, and A. W. Richards, Chagrin Falls, Ohio, assignors to American Fixture and Manufacturing Co., St. Louis, Mo. Lock mechanism for extension slide tables. 2,661,257, Dec. 1.

Wolf, Alfred, Tulsa, Okla., assignor to Geophysical Research Corporation, New York, N. Y. Method and apparatus for recording dip of geological strata. 2,661,464, Dec. 1.

Wolfe, Bernard J.: *See*—
Mayo, Clyde R., and Wolfe.

Wolfe, Thomas, Pasadena, Calif. Steering wheel mounted holder. 2,661,222, Dec. 1.

Woodruff, Thomas E., Redondo Beach, Calif., assignor to General Electric Company. Linear sawtooth generator. 2,661,420, Dec. 1.

Woolford, Custis S., South Orange, N. J., and J. E. Socke, Pelham Manor, assignors to American Can Company, New York, N. Y. Magnetic can body supporting structure. 2,660,969, Dec. 1.

Wright, Stephen W., and P. P. Love, Alperton, Wembley, England, assignors to Johnson Bronze Company, New Castle, Pa. Journal bearing. 2,661,254, Dec. 1.

Wurzburg, Otto B.: *See*—
Caldwell, Carlyle G., and Wurzburg.

Wyczalek, Floyd A., Flint, assignor to General Motors Corporation, Detroit, Mich. Device for determining borderline detonation. 2,660,883, Dec. 1.

Xenakis, James, Long Branch, N. J. Conveyer table. 2,661,080, Dec. 1.

Yale & Towne Manufacturing Company, The, assignee: *See*—
Bennett, Maurice D., and Zizzi.
Framhein, Herbert J.
Spain, Roy C.

Yeats, Robert S., San Diego, Calif. Film reel for motion-picture projectors. 2,661,210, Dec. 1.

York Corporation, assignee: *See*—
Gerhart, Carlton M., Jr.

Young, Andrew P., Roseland, and W. E. Brigham, Packanack Lake, N. J., assignors to Curtiss-Wright Corporation. Burner for liquid fuel. 2,661,199, Dec. 1.

Yusko, Stanley, Danville, Va. Oscillating toothbrush. 2,660,745, Dec. 1.

Zachary, Alexis, New York, N. Y. Hair treating device. 2,661,008, Dec. 1.

Zaenkert, Frederick A., Greenhills, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Stuffer valve. 2,660,755, Dec. 1.

Zandlo, Stephen, assignee: *See*—
Nordstrom, Harry E.

Zarlengo, Dominic A., Denver, Colo. Corsage support. 2,660,771, Dec. 1.

Ziegler, Tobias F., Chicago, Ill. Multipart retractable structure. 2,661,082, Dec. 1.

Zinn, Julius A., Jr., Chicago, Ill. Laminated carton. 2,661,141, Dec. 1.

Ziomek, Frank, Brooklyn, N. Y. Safety lock for automobile doors. 2,660,874, Dec. 1.

Zizzi, Frank T.: *See*—
Bennett, Maurice D., and Zizzi.

Zmuda, Andrew W., and T. H. Mitzelfeld, assignors to General Motors Corporation, Detroit, Mich. Valve rotating device. 2,660,990, Dec. 1.

Zobel, Theodor W., Braunschweig, Germany. Interference-Schlieren apparatus. 2,660,915, Dec. 1.

Zobel, Theodor W., Braunschweig, and F. Mirus, Weiner, Germany. Test equipment for measuring the flatness and plane parallelism of glass surfaces of any desired size and thickness by light wave interference. 2,660,916, Dec. 1.

Zumwalt, Robert F., Kenmore, assignor to Wales-Strippit Corporation, North Tonawanda, N. Y. Machine tool with liquid spring actuated ram. 2,660,984, Dec. 1.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Buckle, Lock. H. R. Kirsten. Re. 23,747, Dec. 1.
By-pass and wrench device, Compression. M. E. Barber. Re. 23,748, Dec. 1.
Distributor plate. L. L. Brunk. Re. 23,749, Dec. 1.
Railway rail. G. R. Burkhardt. Re. 23,745, Dec. 1.
Vaccine and manufacturing the same. A. H. Killinger and J. R. Dick. Re. 23,746, Dec. 1.

LIST OF DESIGN INVENTIONS

Bathtub, Infant's. R. H. Zoffer. 171,018, Dec. 1.
Belt. V. A. D'Arbeloff. 170,970, Dec. 1.
Binoculars, Pair of. D. Kane. 170,981, Dec. 1.
Bottle or similar article. E. O. Rioux. 171,010, Dec. 1.
Bracelet or the like. A. Katz. 170,991, Dec. 1.
Bracelet or the like. A. Katz. 170,993, Dec. 1.
Bracelet or the like. A. Katz. 170,995, Dec. 1.
Bracelet or the like. A. Katz. 170,997, Dec. 1.
Cabinet, Physician's instrument. E. W. Claus. 170,966–8, Dec. 1.
Cabinet, Physician's utility. E. W. Claus. 170,965, Dec. 1.
Case or similar article, Cutlery. N. Goldman. 170,973, Dec. 1.
Chain for a bracelet or the like, Link. A. Katz. 170,988, Dec. 1.
Chain for a bracelet or the like, Link. A. Katz. 170,990, Dec. 1.
Chain for a necklace or the like, Link. A. Katz. 170,992, Dec. 1.
Chair. C. P. Molla. 171,002–3, Dec. 1.
Closure for toothpaste tubes or the like. C. M. Del Mas. 170,971, Dec. 1.
Cup, toothbrush, and toothpaste holder, Combined drinking. R. Mayer. 171,001, Dec. 1.
Dispenser and disposal box, Combination. M. L. Gorham. 170,974, Dec. 1.
Dispenser for cigarettes and the like. L. R. Slaton. 171,014, Dec. 1.
Earring or similar article. M. Chernow. 170,963, Dec. 1.
Flow test machine for radiators. J. V. Grasso. 170,976, Dec. 1.
Food server and tongs therefor, Combined. L. Levine. 171,000, Dec. 1.
Front for sunglass frames or the like. J. Bloch. 170,962, Dec. 1.
Handbag. S. J. Aberman. 170,958–9, Dec. 1.
Handbag. W. H. Hardy. 170,979–80, Dec. 1.
Holder, Bottle. J. A. Peterson. 171,008, Dec. 1.
Holder or similar article, Key. M. R. Blish. 170,961, Dec. 1.
Hubcap, Wheel trim. J. K. Gaylord. 170,972, Dec. 1.
Lamp. A. Striller. 171,016, Dec. 1.
Motor-transmission unit. D. M. Schwartz. 171,013, Dec. 1.
Necklace or the like. A. Katz. 170,982–7, Dec. 1.
Necklace or the like. A. Katz. 170,989, Dec. 1.
Necklace or the like. A. Katz. 170,994, Dec. 1.
Necklace or the like. A. Katz. 170,996, Dec. 1.
Necklace or the like. A. Katz. 170,998, Dec. 1.
Photographic enlarger or similar article. R. M. Barth and H. G. Bergstrom. 170,960, Dec. 1.
Radiator flow test machine. J. V. Grasso. 170,975, Dec. 1.
Radio, Portable. J. O. Reinecke. 171,009, Dec. 1.
Sheet of decorative material or the like. C. B. Stevens. 171,015, Dec. 1.
Skirt portion for a shuttlecock or similar article. L. Sametz. 171,012, Dec. 1.
Table. F. Wagner. 171,017, Dec. 1.
Tool, Bar. M. J. La Forte. 170,999, Dec. 1.
Tool, Spark plug gapping. J. T. Clark. 170,964, Dec. 1.
Toy, Trundle. J. A. Peabody, Sr. 171,007, Dec. 1.
Trailer, Cement transport. C. C. Clough. 170,969, Dec. 1.
Watch band or similar article. J. L. Hajos and K. Speck. 170,977–8, Dec. 1.
Watch case and a watch band, Combined wrist. P. G. Nolin. 171,004–5, Dec. 1.
Watch case and watch band, Combined. P. G. Nolin. 171,006, Dec. 1.
Wheel, Coaster wagon. P. H. Rosenberg. 171,011. Dec. 1.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive wheel dressing tool. H. G. Teather. 2,660,994, Dec. 1.
Accumulator-carriage and drive-shaft interlock for miniature-type calculating machines. F. Mark. 2,661,155, Dec. 1.
Adding solid materials to liquid, Means for. E. W. Baily. 2,661,244, Dec. 1.
Adducts, Preparing. J. Dazzi. 2,661,359, Dec. 1.
Adhesive transfer and fixing apparatus. C. R. Mayo and B. J. Wolfe. 2,661,289, Dec. 1.
Adjustable clothesline support. L. S. Rose. 2,661,179, Dec. 1.
Advancing reel. J. N. Birmingham. 2,660,808, Dec. 1.
Air circulator for orchards and field crops. L. B. Gaskill. 2,661,068, Dec. 1.
Air cleaner construction. A. B. Osgood and A. E. Swanson. 2,661,079, Dec. 1.
Air conditioner, Window mounted. P. R. Tipton and W. F. Borgerd. 2,660,866 Dec. 1
Air conditioning system, Residential. C. M. Gerhart, Jr. 2,660,863, Dec. 1.
Air conditioning unit, Outside mounted. W. F. Borgerd. 2,660,867, Dec. 1.
Aircraft control stick force linkage. I. L. Ashkenas. 2,661,169, Dec. 1.
Aircraft flap mechanism. C. G. Gordon. 2,661,166, Dec. 1.
Air-moisture separator. R. E. Walker. 2,661,076, Dec. 1.
Airplane wing construction with passage from upper surface to trailing edge. M. E. Clark. 2,661,167, Dec. 1.
Air volume control for water supply systems. H. C. Weber. 2,660,954, Dec. 1.
Alarm, Burglary and fire. C. J. Munch. 2,661,394, Dec. 1.
Alkanediol mono-aryl ortho-phosphates. H. R. Gamrath and R. E. Hatton. 2,661,366, Dec. 1.
Alkanediol phosphoryl monochlorides. H. R. Gamrath and R. E. Hatton. 2,661,365, Dec. 1.
Alloy: *See*—
  Nonferrous alloy.
  Precipitation hardenable iron base alloy.
Amplifier, High-frequency. G. E. Mueller. 2,661,441, Dec. 1
Amplifier, Stabilized thermionic. V. J. Cooper and J. E. A. Nixon. 2,661,398, Dec. 1.
Amplifier, Variable band width. R. L. Harvey. 2,661,399, Dec. 1.
Amusement apparatus, Rocket ship. E. A. Campbell. 2,661,211, Dec. 1.
Anchoring assembly for dental prosthesis, Resilient. E. Roccato. 2,660,789, Dec. 1.
Animated attachment for record players. M. A. Estes. 2,660,829, Dec. 1.
Antenna system, Slotted. W. A. Johnson and R. H. J. Cary. 2,661,422, Dec. 1.
Antenna with included reflector, Multidirectional. M. P. Middlemark. 2,661,423, Dec. 1.
Antidiffusion diazotypes having terrazo diphenyls as the light sensitive agent. S. C. Slifkin. 2,661,291, Dec. 1.
Antiskid device for vehicle wheels provided with resilient tires, Removable. H. Elsner. 2,661,042, Dec. 1.
Antisurge control for refrigeration compressors. A. H. Heineman. 2,661,145, Dec. 1.
Apparatus for abrading bisque ware. O. J. Burden. 2,660,835, Dec. 1.
Apparatus for aiding the landing of aircraft. R. J. Herbold. 2,660,792, Dec. 1.
Apparatus for and method of painting. G. J. Page and J. Harrison. 2,661,310, Dec. 1.
Apparatus for annealing glassware. D. G. Merrill. 2,660,832, Dec. 1.
Apparatus for assembling an elastic tubular rubber insert under radial compression between an outer rigid tube and an inner rigid core. H. G. Beck. 2,660,780, Dec. 1.
Apparatus for composting animal manure. W. L. Morrison. 2,660,809, Dec. 1.
Apparatus for connecting metal coating rolls with a driving mechanism. M. E. Bills. 2,660,979, Dec. 1.
Apparatus for constructing posts in the ground. J. Capblanch. 2,660,862, Dec. 1.
Apparatus for determination of the temperature of deposition of electrically nonconducting solids from gases. T. J. Webster. 2,660,882, Dec. 1.
Apparatus for dispensing liquids. J. Fraser. 2,661,135, Dec. 1.
Apparatus for forming fiber mats, including deckle boxes with white water return. R. Chapman. 2,660,935, Dec. 1.
Apparatus for milling complex surfaces. C. B. De Vlieg. 2,660,931, Dec. 1.
Apparatus for the destructive distillation of oil shale. D. Dalin. 2,661,327, Dec. 1.
Apparatus for the selective burning of different type gaseous fuels embodying a common burner element. C. A. Reichelderfer. 2,661,157, Dec. 1.
Apparatus for the stabilization of ivory. E. J. Delamarre and R. L. Bréjoux. 2,660,723, Dec. 1.
Apparatus for treating gases with liquids. W. S. Norman. 2,661,197, Dec. 1.
Apparatus for use in determining the ultimate tensile strength of steel under impact conditions. A. C. Vivian. 2,660,880, Dec. 1.
Appartaus for vaporization and combustion of hydrocarbon distillates. E. C. Hyatt, L. L. Lyon, Jr., and W. R. Swanson. 2,661,054, Dec. 1.
Apparatus for weight classification. N. G. Maloney. 2,661,091, Dec. 1.
Apparatus for widening roadways. J. R. Breeden. 2,660,937, Dec. 1.
Applying a completely polymerizable thermosetting resinous composition to an electrical member. N. C. Foster. 2,661,307, Dec. 1.
Applying liquids to fibers, Methods and apparatus for. R. D. Robinson and R. P. Jacques. 2,660,763, Dec. 1.
Aqueous asbestos dispersion and producing same. G. D. Barbaras. 2,661,287, Dec. 1.
Armrest for automobile doors. H. F. Bushong. 2,661,052, Dec. 1.
Arrival and departure transportation indicator system. I. Molnar. 2,661,465, Dec. 1.
Article carrier. E. L. Arneson. 2,661,140, Dec. 1.
Article handling apparatus. L. F. Ashford. 2,661,100, Dec. 1.
Article of furniture, Reclining. A. Lorenz. 2,661,048, Dec. 1.
Ash tray. H. P. Forton. 2,661,006, Dec. 1.
Asphalt blowing. W. W. Kraft. 2,661,323, Dec. 1.
Asphalt cutbacks. J. W. Romberg and R. N. Traxler. 2,661,300, Dec. 1.
Atomizing liquids, Method and apparatus for. P. M. van Benmel and H. Milborn. 2,661,195, Dec. 1.
Automatic blow-down valve. W. B. Hollingbery. 2,661,014, Dec. 1.
Automatic cycle machine tool. H. C. Kemper and N. D. Cooper. 2,660,932, Dec. 1.
Automatic electric water heater. L. Lorenzetti. 2,661,409, Dec. 1.
Automatic takeup mechanism. W. T. Hicks and D. V. Waters. 2,661,161, Dec. 1.
Awning rope guide and pulley. L. E. Jefferson. 2,661,184, Dec. 1.
Bag filling machine with rotatable bag carrier having expandable and contractable bag engaging fingers. E. E. West. 2,661,132, Dec. 1.
Baler. S. D. Russell. 2,660,949, Dec. 1.
Balloon guard. C. B. Kingsbury. 2,660,856, Dec. 1.
Band pass filter circuit. F. W. Schmidt, Jr. 2,661,459, Dec. 1.
Barrel bung bit having a passage for permitting flow of liquid. J. J. Guarino. 2,661,123, Dec. 1.
Battery terminal clamp. J. M. Johnson. 2,661,463, Dec. 1.
Bearing: *See*—
  Journal bearing.
Bearing assembly, Connecting rod end. B. W. Barlow and A. E. Barnes. 2,661,253, Dec. 1.
Bed with shiftable back, Lounge. P. E. and W. J. Dumble, and J. J. Dowling. 2,660,734, Dec. 1.
Beet topper. H. E. Altgelt. 2,660,853, Dec. 1.
Benzoins and furoins, Preparation of. C. J. Schmidle. 2,661,354, Dec. 1.
Berth and seating unit, Folding. W. J. Williams. 2,660,733, Dec. 1.
Beverage unit for motor vehicles, Hot. W. R., J. C., and A. R. Allred. 2,661,015, Dec. 1.
Binder wire for attachment to shoes, Preparing. H. R. Levesque. 2,661,031, Dec. 1.
Bit lifter and stabber. V. Smoot. 2,661,188, Dec. 1.
Blends of resinous styrene-conjugated diene copolymers and rubbery materials. W. J. Sparks, A. H. Gleason, and P. K. Frolich. 2,661,339, Dec. 1.
Blower blade fastening device. J. H. Anderson. 2,661,147, Dec. 1.

Board: *See*—
Coloring board.
Book for making garment belts. S. Guggino. 2,661,223, Dec. 1.
Boot, Ski. H. Henke. 2,660,812, Dec. 1.
Boring head, Offset. R. M. and H. R. Snow. 2,661,218, Dec. 1.
Bottle case. H. C. Haffner. 2,661,111, Dec. 1.
Box: *See*—
Collapsible fish box.
Dismountable packaging box.
Bracket with trot-line ring. A. C. Wiseman. 2,660,972, Dec. 1.
Brake apparatus, Fluid pressure. E. P. Sexton. 2,661,246, Dec. 1.
Brake control apparatus. J. W. Rush and G. T. McClure. 2,661,247, Dec. 1.
Brake control, Hydraulic. A. C. Hager and T. D. Jones. 2,661,081, Dec. 1.
Brake fluid safety indicator. T. R. Luczko. 2,661,410, Dec. 1.
Brassière. G. Katz. 2,660,729, Dec. 1.
Breadbox. L. H. Barnett and H. Brin. 2,661,114, Dec. 1.
Breaker strip construction. R. E. Wallenbrock and J. J. Coda. 2,661,117, Dec. 1.
Brewing machine, Beverage. C. J. Forschner. 2,660,947, Dec. 1.
Briquettes, Manufacturing. A. L. Stillman. 2,661,326, Dec. 1.
Brush, Power-driven cleaning. A. Ward. 2,660,746, Dec. 1.
Buffing wheel. J. F. Leslie. 2,660,841, Dec. 1.
Building unit, Hollow masonry. V. A. Barnhart. 2,660,878, Dec. 1.
Bulldozer and shovel arrangement, Combination. W. A. Maxwell. 2,660,816, Dec. 1.
Bumper, Cushioning. D. R. Falkenberg. 2,660,751, Dec. 1.
Burner: *See*—
Film type liquid fuel burner.
Burner and chimney for incandescent mantle lamp. W. B. Engh. 2,661,418, Dec. 1.
Burner for liquid fuel. A. P. Young and W. E. Brigham. 2,661,199, Dec. 1.
Burner head and secondary air baffle, Gas. M. Resek. 2,661,057, Dec. 1.
Burner with multiple mixer and single combustion chamber, Gas. O. C. Kuehne. 2,661,056, Dec. 1.
Cable: *See*—
Electric cable.
Cam-actuated intermittent movement. G. A. Mitchell. 2,660,918, Dec. 1.
Can-opening and pouring spout-forming device. G. A. Harms. 2,660,781, Dec. 1.
Car stop, Automatic safety. C. W. Stickler, Jr. 2,660,959, Dec. 1.
Carbomethoxybenazazide and preparation. M. F. Fuller and P. Van Fossen. 2,661,355, Dec. 1.
Carbon disulfide, Production of. H. O. Folkins, E. Miller, and H. Hennig. 2,661,267, Dec. 1.
Carburetor. T. M. Ball. 2,661,196, Dec. 1
Carrier: *See*—
Article carrier.
Spare tire carrier.
Spare tire and wheel carrier.
Carton. W. H. Inman. 2,661,143, Dec. 1.
Carton handling apparatus. A. C. Schroeder. 2,660,844, Dec. 1.
Carton, Laminated. J. A. Zinn, Jr. 2,661,141, Dec. 1.
Case: *See*—
Bottle case.
Refrigerated display case.
Flower shipping case.
Case and filing unit, Protective. M. E. Landau. 2,660,965, Dec. 1.
Case for timepieces and the like. L. R. Burghoff. 2,660,857, Dec. 1.
Cast iron, Production of. H. Morrogh. 2,661,281, Dec. 1.
Caster wheel lock. C. R. Baughman. 2,660,940, Dec. 1.
Casting apparatus. R. P. Davis. 2,660,770, Dec. 1.
Catalytic reforming process. L. H. Beckberger and R. C. Woerner. 2,661,320, Dec. 1.
Cation exchange material having high mechanical strength. M. L. Nielsen. 2,661,337, Dec. 1.
Centralizer. H. A. Gillerstrom. 2,661,189, Dec. 1.
Centrifuge. W. G. Abbott, Jr. 2,661,150, Dec. 1.
Certain amino alcohols and ketones. F. Külz and C. Schöpf. 2,661,373, Dec. 1.
Chaffer attachment. D. C. Peters. 2,661,005, Dec. 1.
Chain: *See*—
Conveyer chain.
Chair and desk, Combination. H. Sebel. 2,661,049, Dec. 1.
Checking device for perforator and perforator tapes. C. H. Stuivenberg. 2,660,888, Dec. 1.
Circuit: *See*—
Band pass filter circuit.
Television keystone balance control circuit.
Sweep generator protection circuit.
Circuit breaker, Electric. R. T. Casey. 2,661,414, Dec. 1.
Circuit control unit for train transformers, Dead-man. W. R. Haury. 2,661,461, Dec. 1.
Circuit maker and breaker. L. S. Wasserman. 2,661,404, Dec. 1.
Clamp: *See*—
Battery terminal clamp.
Cleaner: *See*—
Suction cleaner.
Cleaning device, Perforation. C. J. McCoy. 2,661,065, Dec. 1.
Cleaning device, Sponge. S. P. Vaughn. 2,660,747, Dec. 1.
Closing machine with oval container and cover positioning device. J. T. Livacich. 2,660,968, Dec. 1.
Closing machine with rectangular container squaring and debulging devices. J. T. Livacich and E. W. De Gear. 2,660,936, Dec. 1.
Closure lock. D. N. and R. S. Jewett. 2,660,875, Dec. 1.
Closure plug for a tubular casing. J. F. G. Miller. 2,661,120, Dec. 1.
Clothes-washing and extracting apparatus. E. F. Kennedy. 2,660,870, Dec. 1.
Clutch with lever fulcrum ring assembly, Friction. C. B. Spase. 2,661,086, Dec. 1.
Coating apparatus, Cathode-ray tube. J. H. Dyne and C. M. Baker. 2,660,978, Dec. 1.
Coating paper and product resulting therefrom. J. L. Azoriosa. 2,661,308, Dec. 1.
Coating roofing material. G. A. Fasold and H. E. Callahan. 2,661,303, Dec. 1.
Coffee maker. C. J. Forschner. 2,660,948, Dec. 1.
Collapsible fish box. G. E. Bombarger. 2,661,116, Dec. 1.
Color television. H. G. Lubszynski and R. S. Webley. 2,661,392, Dec. 1.
Coloring board. C. H. Lanning. 2,660,983, Dec. 1.
Comb, Barber's. F. Bauer. 2,661,007, Dec. 1.
Combination lock. M. D. Bennett and F. T. Zizzi. 2,660,873, Dec. 1.
Composition containing colloidal methyl ether of methylol melamine and other thermoplastic resins and applying to cellulose textiles. K. E. Folkers. 2,661,262, Dec. 1.
Composition for use in sand molding. C. B. Shanley. 2,661,298, Dec. 1.
Compositions and methods of coating glass and coated glass articles. L. D. Shand. 2,661,438, Dec. 1.
Compositions comprising bentonite-organic amine compounds in asphalts, tars, or pitches. R. G. Capell. 2,661,301, Dec. 1.
Computing device. P. Elias. 2,661,152, Dec. 1.
Computing device. A. W. Vance. 2,661,153, Dec. 1.
Condenser with subcooler and venting means. A. Kirkpatrick. 2,661,190, Dec. 1.
Cone rib finishing machine. A. L. Bergstrom. 2,660,840, Dec. 1.
Consumer type container. L. C. Brooks. 2,661,139, Dec. 1.
Container: *See*—
Consumer type container.
Container. G. Leonard. 2,661,138, Dec. 1.
Container. G. C. Reid and S. S. Jacobs. 2,661,137, Dec. 1.
Container and closure therefor. N. E. Spiess, Jr., and E. M. Gropen. 2,661,119, Dec. 1.
Container and hanger, Garment. O. C. Cox. 2,660,819, Dec. 1.
Container for movably storing articles. F. F. C. Rippon. 2,661,259, Dec. 1.
Container for storing oil and like fluids. H. Edholm. 2,661,062, Dec. 1.
Container having a slidable bottom forming a follower, Dispensing. A. C. Spencer. 2,661,126, Dec. 1.
Container with adapter for discharge apertures, High-pressure. E. H. Benson. 2,661,113, Dec. 1.
Container with carrying handle, Shipping. J. W. Hendrickson, Jr. 2,661,142, Dec. 1.
Containers from fiberboard and like sheet material, Manufacture of. V. A. Hutt-Brenning. 2,660,971, Dec. 1.
Control apparatus. W. H. Wannamaker, Jr., and J. C. Mouzon. 2,661,454, Dec. 1.
Control apparatus. R. L. Wilson. 2,661,403, Dec. 1.
Control mechanism, Dual. H. H. Wagner. 2,660,902, Dec. 1.
Control system for automatic single-chamber compressed air brakes. S. Keller. 2,661,248, Dec. 1.
Controlling aircraft in flight, Means for. J. A. Chamberlin. 2,661,170, Dec. 1.
Conversion of heavy hydrocarbonaceous materials in the presence of subdivided coke. F. W. Leffer. 2,661,324, Dec. 1.
Conveyer chain. G. R. Kew. 2,660,898, Dec. 1.
Conveyer table. J. Xenakis. 2,661,080, Dec. 1.
Corsage support. D. A. Zarlengo. 2,660,771, Dec. 1.
Cosmetic composition containing lanolin in high concentration. H. A. Martini. 2,661,316, Dec. 1.
Cotton picker spindle assembly mounting. C. R. Hagen. 2,660,851, Dec. 1.
Counter and bar, Buffet. J. M. Dinken. 2,661,258, Dec. 1.
Counterbalance for vertically sliding doors. C. C. Moler. 2,660,753, Dec. 1.
Counting and dispensing machine. E. C. Clement. 2,661,133, Dec. 1.
Cradle on bogies for railway rolling stock, Twin-bolster. G. Borgeaud and J. Waldvogel. 2,660,960, Dec. 1.
Crayfish picking machine. F. O. Roshko. 2,660,754, Dec. 1.
Creep testing of high-temperature alloys. T. C. Van Degrift. 2,660,881, Dec. 1.
Crimping machine, Roll. H. C. Bryans. 2,660,846, Dec. 1.

Cutter for multilayer cables, Peripheral. D. K. Davis and R. K. Rauh. 2,660,783, Dec. 1.
Cutting and splicing apparatus. W. D. Dain. 2,661,046, Dec. 1.
Cyclized rubber, Manufacture of. G. J. van Veersen. 2,661,340, Dec. 1.
Damper. G. A. Pepie, Jr. 2,660,946, Dec. 1.
Damper control means for air conditioning units. C. L. Osterkorn. 2,660,945, Dec. 1.
Dark trace cathode-ray tube. A. E. Beckers. 2,661,437, Dec. 1.
Defibrating and grinding paper pulp or other fibrous material, Means for. C. Laviste. 2,660,934, Dec. 1.
Dehydrogenation of a cycloolefinic hydrocarbon containing a geminal carbon atom. H. Pines and V. N. Ipatieff. 2,661,381, Dec. 1.
Demothizing device, Time controlled. M. Abrams. 2,660,828, Dec. 1.
Dense compositions of asphalt and asbestos, Preparing. J. W. Keith. 2,661,302, Dec. 1.
Depository, Outdoors coin. D. L. Shain. 2,661,149, Dec. 1.
Depth sounder. H. E. Nordstrom. 2,660,795, Dec. 1.
Detecting the source and analyzing the flow of water intrusions in oil wells. F. Frei. 2,660,887, Dec. 1.
Device for determining borderline detonation. F. A. Wyczalek. 2,660,883, Dec. 1.
Device for enhancing the vaporization of a fuel component of a flowing fuel-air mixture. G. L. Briggs. 2,661,269, Dec. 1.
Device for setting carburetor floats. T. J. Baas. 2,660,801, Dec. 1.
Device for supporting glassware in burning-off operations. J. C. Weber, Jr. 2,660,833, Dec. 1.
Device for visual training. C. W. Ott. 2,661,444, Dec. 1.
Device for washing oil tanks with water and the like devices. J. B. Veneziano. 2,661,241, Dec. 1.
Device in heat exchanger. K. P. A. Ohlander. 2,661,200, Dec. 1.
Dial indicator gauge. J. E. Delaney. 2,660,798, Dec. 1.
Dicyclohexyl ethane compounds and making same. E. M. H. Radde. 2,661,369, Dec. 1.
Die casting. F. C. Bennett. 2,660,769, Dec. 1.
Diplexer arrangement. I. E. Goldstein. 2,661,424, Dec. 1.
Diresorcyl sulfoxide and preparing the same. A. P. Comer and R. G. D. Moore. 2,661,376, Dec. 1.
Dismountable packaging box. R. Allavena. 2,661,110, Dec. 1.
Display device, Can stacking. N. Paul. 2,661,097, Dec. 1.
Disubstituted propargyl acetoacetates and decarboxylation of same, Preparation of. W. Kimel and N. W. Sax. 2,661,368, Dec. 1.
Doll eye and lid mechanism, Power-operated. G. H. Jentzen. 2,660,830, Dec. 1.
Door construction. J. C. Petterson. 2,660,766, Dec. 1.
Door construction forming bed portion, Vehicle. K. S. Sidel. 2,661,233, Dec. 1.
Door control mechanism, Vent. C. W. French. 2,660,944, Dec. 1.
Doorframe. J. J. Steffan. 2,661,084, Dec. 1.
Door latch. B. N. Carlson. 2,660,765, Dec. 1.
Doorstop, Adjustable. R. J. Wallen. 2,660,750, Dec. 1.
Downdraft diverter. R. E. James and A. J. Lampert. 2,660,998, Dec. 1.
Drier: *See*—
Tobacco drier.
Drier for granular material. B. M. Hess. 2,660,810, Dec. 1.
Drive mechanism, Selective plural speed frictional. H. L. Hartman. 2,660,896, Dec. 1.
Driving and locking means for apparatus having removable magazine. F. H. Owens. 2,661,162, Dec. 1.
Drum cap and valve assembly, Automatic venting. J. R. Snyder and F. J. Schenkelberger. 2,661,019, Dec. 1.
Dry cleaning apparatus. D. McDonald. 2,660,869, Dec. 1.
Drying lacteal fluids. R. E. Meade. 2,661,294, Dec. 1.
Drying machine for grass and other crops. J. Walsh and H. Dawson. 2,660,807, Dec. 1.
Drying system, Clothes. H. A. Whitesel. 2,660,806, Dec. 1.
Dynamoelectric machine core ventilation. C. E. Kilbourne. 2,661,434, Dec. 1.
Easel, Enlarging. J. Keinath, M. Kuhn, F. Boss, and L. Leitz. 2,660,919, Dec. 1.
Electric cable. R. W. Presswell. 2,661,389, Dec. 1.
Electrical coil. H. V. Adcock. 2,661,446, Dec. 1.
Electrical controller, Adjustable multiposition. T. B. Jochem and H. L. Mekelburg. 2,661,401, Dec. 1.
Electrical outlet, Fuse protected. J. E. Doss. 2,661,413, Dec. 1.
Electrical switch. J. C. L. Shabeck, Jr. 2,661,408, Dec. 1.
Electrical system for cyclic controls. S. J. Otis. 2,661,060, Dec. 1.
Electromechanical relay. J. A. Dreyfus. 2,661,412, Dec. 1.
Electronic control apparatus. W. H. Gille. 2,661,449, Dec. 1.
Electropolishing sterling silver. F. Sullivan. 2,661,330, Dec. 1.
Elevator casing and close fitting adjustable feed chute. S. M. Mercier. 2,661,088, Dec. 1.
Elevator housing, Bucket. S. M. Mercier. 2,661,089, Dec. 1.
Endless belt magnetic separator. S. G. Injeski. 2,661,092, Dec. 1.
Engine starter drive. J. J. Digby. 2,660,891, Dec. 1.
Engine with scavenging air blower, Two-stroke. A. Schnürle, J. Kopf, O. Elwert, and E. Hörz. 2,660,989, Dec. 1.
Engraving attachment, Inside ring. W. M. Garing. 2,660,933, Dec. 1.
Ethylxylenes, Preparation of. A. P. Lien and D. A. McCaulay. 2,661,382, Dec. 1.
Extracting volatile constituents from carbonaceous materials, Method and apparatus for. H. K. Savage. 2,661,325, Dec. 1.
Fan, Thermostatically controlled. I. A. Englander. 2,661,148, Dec. 1.
Fastener: *See*—
Scarf fastener.
Slide fastener.
Fastening device. P. Bielkowicz. 2,660,775, Dec. 1.
Feeding means, Infant. B. Alstadt and H. Sappey. 2,661,001, Dec. 1.
Feeding of magnetic sheet material. A. Fowler. 2,661,208, Dec. 1.
Fender attachment for tractor mounted cultivating units. C. L. Carelock. 2,660,941, Dec. 1.
Fiber tester. R. S. Hoisington. 2,660,889, Dec. 1.
Filling and closing machine. L. McGibon. 2,661,134, Dec. 1.
Film selecting method and system, Automatic. A. Badmaieff. 2,661,164, Dec. 1.
Film type liquid fuel burner. G. Kopp. 2,661,055, Dec. 1.
Film viewer, Flat. D. S. McChesney. 2,660,920, Dec. 1.
Filter device for use in sequential television systems, Mechanical color. A. V. Bedford. 2,661,391, Dec. 1.
Filter support and actuating mechanism, Plural. M. I. Talley. 2,660,926, Dec. 1.
Fire-resistant resinous product and producing same. H. K. Nason and M. L. Nielsen. 2,661,341, Dec. 1.
Firing mechanism, Underwater. H. H. Mohaupt. 2,660,952, Dec. 1.
Fish lure. P. J. Pero. 2,660,827, Dec. 1.
Flameholder and turning vane, Combined. J. Chamberlain. 2,660,859, Dec. 1.
Flight instrument. P. H. Gordon. 2,660,977, Dec. 1.
Flotation equipment. L. P. Biefeld. 2,660,736, Dec. 1.
Flow-brightening tinplate. E. J. Smith. 2,661,328, Dec. 1.
Flower shipping case. M. U. Morris. 2,661,144, Dec. 1.
Fluent material concentrator. E. A. Koth. 2,661,095, Dec. 1.
Fluid control device. A. Latour. 2,661,022, Dec. 1.
Fluid coupling rotor elements, Making. O. M. Koskinen. 2,660,970, Dec. 1.
Fluid heater. E. J. Wasp and J. S. Wallis. 2,660,996, Dec. 1.
Fluid mixing and separating apparatus. P. M. Brister. 2,661,075, Dec. 1.
Fluid pressure control apparatus for free piston machines. A. J. Bent. 2,661,020, Dec. 1.
Fluid pressure-operated valve. D. G. Griswold. 2,661,023, Dec. 1.
Flushing valve. U. Lautlainen. 2,661,021, Dec. 1.
Focusing aid for electron microscopes. R. S. Page. 2,661,427, Dec. 1.
Folding display rack. F. Drueck, Jr. 2,661,176, Dec. 1.
Folding picture frame. V. P. Howard. 2,660,825, Dec. 1.
Forming asbestos products from polyvalent ion dispersed asbestos. G. D. Barbarras. 2,661,288, Dec. 1.
Forming blade roots. J. Atkinson. 2,660,779, Dec. 1.
Forming molds, Means for. R. E. Barr. 2,660,768, Dec. 1.
Fountain attachment for faucets, Drinking. J. W. Swartz. 2,661,237, Dec. 1.
Frame: *See*—
Folding picture frame.
Window frame.
Frame construction for planters. C. W. Walz and H. F. Clausen. 2,660,967, Dec. 1.
Friction device for operating knobs in adjustable apparatus. H. A. Hilsinger, Jr. 2,660,904, Dec. 1.
Furnace: *See*—
Muffle type furnace.
Retort type sectional high-frequency furnace.
Furnace end structure. J. M. Brashear. 2,661,198, Dec. 1.
Game apparatus, Racing. A. G. Rose. 2,661,214, Dec. 1.
Gas turbine blade, Air-cooling. L. C. Lichty. 2,660,858, Dec. 1.
Gasket having means for indicating when improperly positioned, Compression. E. J. Laber. 2,661,245, Dec. 1.
Gasket, Sealing. B. J. Slaughter, Jr. 2,661,229, Dec. 1.
Gauge: *See*—
Dial indicator gauge.
Tire pressure gauge.
Marking gauge.
Gear: *See*—
Infinitely-variable change-speed gear.
Stay in gear.
Generator: *See*—
Impedance matching generator.
Nuclear electrical generator.
Linear sawtooth generator.
Getter material for electron discharge devices. E. A. Lederer. 2,661,336, Dec. 1.
Glare-shielding device. M. H. Thornton. 2,660,728, Dec. 1.
Glassware takeout apparatus. G. E. Rowe. 2,660,831, Dec. 1.
Golf bag and stand. W. Sands. 2,661,174, Dec. 1.
Golf bag holding stand. F. D. Holder. 2,661,175, Dec. 1.

Golf ball holder. H. E. Seaton and C. H. Baker. 2,661,129, Dec. 1.
Golf tee with hollow base, Rubber. P. J. Barnard. 2,661,213, Dec. 1.
Grain bed for vehicles. H. C. Sego. 2,661,104, Dec. 1.
Greases and preparing the same, Trough. F. H. MacLaren and L. P. Schwartz. 2,661,318, Dec. 1.
Grinder, Meat. P. Güldenring. 2,661,040, Dec. 1.
Grinder, Tooth face. H. Schicht. 2,660,839, Dec. 1.
Grinding machine. O. E. Hill. 2,660,837, Dec. 1.
Grinding machine, Cam. C. J. Green. 2,660,838, Dec. 1.
Grinding machine for shaping surfaces. C. J. Green. 2,660,836, Dec. 1.
Grommets, Making. R. C. Davis and J. T. Marvin. 2,660,759, Dec. 1.
Gun sight, Computing. R. C. Goertz and H. L. Hull. 2,660,794, Dec. 1.
Hair treating device. A. Zachary. 2,661,008, Dec. 1.
Halogen exchange. T. G. McKenna, S. B. Soloway, R. E. Lidov, and J. Hyman. 2,661,377–8, Dec. 1.
Hammering machine, Portable. G. A. Thompson. 2,660,724, Dec. 1.
Hammermill with power-driven impactor surfaces, Reversible. E. H. Keiper. 2,661,160, Dec. 1.
Handle and filter bag assembly for vacuum cleaners, Propelling. G. A. Brace. 2,661,077, Dec. 1.
Handle for rotary tools, Operating. K. E. Queitzsch. 2,660,911, Dec. 1.
Handy iron. G. T. Gross. 2,660,818, Dec. 1.
Hanger for cow stall stanchions and the like, Swivel. R. G. Ferris. 2,661,178, Dec. 1.
Harpoon gun. C. R. Blakeslee. 2,660,993, Dec. 1.
Harvester, Cotton. J. H. Knowles. 2,660,849, Dec. 1.
Harvester, Multirow cotton. L. A. Paradise. 2,660,852, Dec. 1.
Harvester with retriever mechanism, Cotton. J. D. Rust. 2,660,848, Dec. 1.
Hay bale depositing device. G. A. Voight. 2,660,855, Dec. 1.
Headrest for vehicles, Removable. R. E. L. Felter. 2,661,050, Dec 1.
Heat exchanger. R. A. Sandberg. 2,661,191, Dec. 1.
Heater: *See*—
Automatic electric water heater. Fluid heater.
Herbicidal composition. D. T. Mowry and A. H. Schlesinger. 2,661,275, Dec. 1.
Herbicidal compositions. A. H. Schlesinger. 2,661,273–4, Dec. 1.
Herbicides. D. T. Mowry and A. H. Schlesinger. 2,661,277, Dec 1.
Herbicides. A. H. Schlesinger and D. T. Mowry. 2,661,276, Dec. 1.
Hexamethylene-1:6-bis-trimethyl-ammonium bitartrate. H. J. Barber. 2,661,370, Dec. 1.
Hinge and latch for doors, Combined. J. J. Carcereny. 2,660,752, Dec. 1.
Hinge, Cabinet door. S. E. Weinthal, S. A. and L. J. Flowers. 2,661,085, Dec. 1.
Hold-down for cattle chutes, Animal. B. F. Linton. 2,660,982, Dec. 1.
Holder: *See*—
Golf ball holder. Steering wheel mounted holder.
Paper roll holder.
Holder for fabric, namely, diapers. E. V. Ehrhardt. 2,660,772, Dec 1.
Hook: *See*—
Wall hook.
Hook assembly, Drilling. S. W. Long. 2,661,232, Dec. 1.
Hook guard. D. G. Anderson. 2,660,871, Dec. 1.
Hose clamp fitting connection. G. T. Lyon. 2,661,225, Dec. 1.
Hose, Flexible. G. A. Brace. 2,661,025, Dec. 1.
Hose, Oil. E. Schulthess. 2,661,026, Dec. 1.
Housing closure. R. R. Bennighof. 2,661,118, Dec. 1.
Hydraulic feed system. H. Ernst. 2,660,985, Dec. 1.
Hydraulic machine. F. J. Kent and R. M. Reichl 2,660,955, Dec. 1.
Hydrocarbon conversion process and regeneration of fouled contact material utilizing flue gas and steam as the gas lift. A. H. Schutte. 2,661,321, Dec. 1.
Hydrogen fluoride purification. W. A. Shire, Jr. 2,661,319, Dec. 1.
Hydrogen fluoride treating system. J. E. Friden and W. A. Shire. 2,661,266, Dec. 1.
Hydrogen peroxide, Production of. K. W. MacFadyen and N. E. Jaffa. 2,661,268, Dec. 1.
Idler arm. M. H. Alldredge. 2,660,907, Dec. 1.
Idler arm. O. S. French. 2,660,906, Dec. 1.
Idler arm. O. S. French and D. P. Marquis. 2,660,908, Dec. 1.
Idler arm. D. P. Marquis. 2,660,905, Dec. 1.
Impedance matching generator. E. Mittelmann 2,661,425, Dec. 1.
Improving the brightness of textile materials and product. H. B. Appleton and P. F. Kiehl. 2,661,305, Dec. 1.
Improving the resistance to shrinking and felting of fabrics. K. E. Folkers. 2,661,313, Dec. 1.
Incinerator with raking arm. I. A. Lyons. 2,660,966, Dec. 1.
Increasing permeability of sands in oil, gas, and injection wells by forming solids in the strata. D. C. Bond. 2,661,066, Dec. 1.
Indexing mechanism. D. V. Waters. 2,660,895, Dec. 1.
Indicator: *See*—
Brake fluid safety indicator.
Infinitely-variable change-speed gear. M. Neidhart and E. Koller. 2,660,897, Dec. 1.
Informational storage device. J. A. Buckbee. 2,661,442, Dec. 1.
Injection flask apparatus. A. J. Hennike, G. Morris, and E. E. Broady. 2,660,758, Dec. 1.
Instantly reversing motor. E. S. Tamm. 2,661,451, Dec. 1.
Instrument for drawing conic sections. M. Polakowski. 2,660,790, Dec. 1.
Instrument panel. E. A. Neugass. 2,660,824, Dec. 1.
Insulator, Molded. M. J. Gelpi. 2,661,390, Dec. 1.
Interference-Schlieren apparatus. T. W. Zobel. 2,660,915, Dec. 1.
Ion trap gun. D. D. Van Ormer. 2,661,436, Dec. 1.
Iron: *See*—
Handy iron. Lithium treated cast iron.
Iron. G. E. Kanta. 2,660,821, Dec. 1.
Iron-phosphorus brazing compact. B. A. Daley. 2,661,282, Dec. 1.
Isomerization process. H. J. Hepp. 2,661,384, Dec. 1.
Isothiuronium salt of penicillin. R. Hiltmann and K. Bauer. 2,661,350, Dec. 1.
Joint between channel members. R. Henderson. 2,661,083, Dec. 1.
Journal bearing. S. W. Wright and P. P. Love. 2,661,254, Dec. 1.
Keyhole cover for lock caps. A. M. Malouf. 2,660,877, Dec. 1.
Keyhole illuminator. C. I. Blackburn and K. H. Percy. 2,661,417, Dec. 1.
Key, Implement handle securing. J. E. Girard. 2,661,252, Dec. 1.
Key lever and type bar mounting for typewriting machines. W. M. Patton. 2,661,087, Dec. 1.
Key member to prevent accidental release of a fluorescent tube from its socket. L. J. Sklenar. 2,661,462, Dec. 1.
Knockdown fuel tank. W. S. Fletcher. 2,661,115, Dec. 1.
Knot tying mechanism. E. E. West. 2,661,230, Dec. 1.
Lasting machine. C. A. Robinson. 2,660,740, Dec. 1.
Latch: *See*—
Door latch.
Lathe attachment. T. O. Strauss. 2,660,799, Dec. 1.
Lathe attachment for progressively cutting a thread. M. M. Escure. 2,660,737, Dec. 1.
Lawn trimmer. E. L. Chadwick. 2,660,854, Dec. 1.
Length control for slide fastener machines. O. G. Scheuermann. 2,661,044, Dec. 1.
Letter pad. M. Gaber. 2,661,224, Dec. 1.
Level. J. Rothstein. 2,660,805, Dec. 1.
Level indicating device for house trailers. M. L. Mundy. 2,660,804, Dec. 1.
Leveler for ground pulverizers, Spring mounted. Y. Thomas. 2,660,817, Dec. 1.
Light flasher for bicycles, Alternating. R. C. Callan. 2,661,406, Dec. 1.
Light reflector which transmits infrared rays. A. F. Turner. 2,660,925, Dec. 1.
Lightning arrester. H. O. Stoelting. 2,661,439, Dec. 1.
Line finder with differential test relay. W. T. Powell. 2,661,396, Dec. 1.
Linear sawtooth generator. T. E. Woodruff. 2,661,420, Dec. 1.
Lithium treated cast iron. O. Smalley. 2,661,283, Dec. 1.
Loader and elevator attachment for vehicles. H. L. Purdy. 2,661,105, Dec. 1.
Loading machine, Blasting initiator. C. R. Johnson and E. H. Schmidt. 2,660,914, Dec. 1.
Lock: *See*—
Caster wheel lock. Combination lock.
Closure lock. Side bar cylinder lock.
Lock for automobile doors, Safety. F. Zlomek. 2,660,874, Dec. 1.
Lock mechanism for extension slide tables. B. A. Woina and A. W. Richards. 2,661,257, Dec. 1.
Lock mechanism for retractable landing gear for aircraft, Up and down. J. H. Allen. 2,661,171, Dec. 1.
Loose-leaf binder. G. H. Ehlke. 2,661,004, Dec. 1.
Lubricating composition. J. M. Butler. 2,661,335, Dec. 1.
Machine for continuous, high-production manufacture of candy suckers. C. J. Covert and W. H. Genich. 2,660,963, Dec. 1.
Machine for forming predetermined irregular surfaces. C. B., H. R., and C. R. De Vlieg. 2,660,930, Dec. 1.
Machine for making hammer handles. P. L. Geins. 2,661,038, Dec. 1.
Machine for preparing fuses. F. R. Clark and C. J. West, Jr. 2,660,845, Dec. 1.
Machine for turning fluorescent lamps and other elongated devices end for end. D. Mullan and H. Bauer. 2,661,101, Dec. 1.
Machine for use in manufacture of shoes. H. A. Imhof. 2,660,739, Dec. 1.
Magnetic can body supporting structure. C. S. Woolford and J. E. Socke. 2,660,969, Dec. 1.
Magnetic recording. G. E. Berens and C. Colbert. 2,661,397, Dec. 1.
Magnetron and circuit therefor. C. W. Hansell. 2,661,426, Dec. 1.

Making dipped latex garment. S. E. Rosenberg. 2,660,762, Dec. 1.
Manifold. F. H. Reindl. 2,660,988, Dec. 1.
Marker, Grading. W. D. Hargus. 2,660,822, Dec. 1.
Marking gauge. C. R. Keys. 2,660,802, Dec. 1.
Measuring apparatus, Borehole hydraulic. R. F. Wiley. 2,660,800, Dec. 1.
Measuring device, Disk. A. C. Lies. 2,660,796, Dec. 1.
Measuring instrument, Electrokinetic. E. V. Hardway, Jr. 2,661,430, Dec. 1.
Measuring instrument with electrostatic return torque. C. Bosch. 2,661,456, Dec. 1.
Measuring system, Flux. A. J. Tickner. 2,661,455, Dec. 1.
Measuring unit, Slime. C. W. Dean. 2,660,884, Dec. 1.
Mechanical scanning device. D. A. Bell. 2,661,393, Dec. 1.
Mercuric acetate, Making. F. P. Greenspan. 2,661,360, Dec. 1.
Metal and producing same, Impregnated. A. P. Ostl and M. Balicki. 2,661,238, Dec. 1.
Metal-working machine. G. E. Hieber. 2,660,738, Dec. 1.
Microscope, Interference. J. S. Philpot. 2,660,922, Dec. 1.
Milk measuring and material feeding device. W. R. Peterson. 2,661,122, Dec. 1.
Mist blower. G. E. Tirrell. 2,661,239, Dec. 1.
Mixer for use in jetting apparatus. T. L. Katovsich. 2,661,194, Dec. 1.
Moistener, Spindle. J. D. Rust. 2,660,850, Dec. 1.
Mold for forming statues with spaced legs, Flexible. J. H. Miller. 2,660,776, Dec. 1.
Mosaic screens for use in television transmitting tubes, Manufacturing. A. Sommer. 2,661,304, Dec. 1.
Motor: *See*—
Instantly reversing motor. Simulated motor.
Motor and control mechanism therefor, Reversible. C. C. Moler. 2,661,450, Dec. 1.
Motor cradle. R. L. Needham. 2,661,172, Dec. 1.
Motor having hydraulically operated valve. O. H. Ludeman. 2,660,986, Dec. 1.
Motor with speed regulation by brush displacement, Three-phase commutator. G. P. Bergknut and C. J. E. Klessling. 2,661,435, Dec. 1.
Mounting: *See*—
Cotton picker spindle assembly mounting.
Mounting for late control slide in fertilizer spreaders, Detachable. E. S. Gandrud. 2,661,125, Dec. 1.
Mounting for rearview mirrors, Adjustable. L. F. Hofer. 2,661,177, Dec. 1.
Mounting for timing units. H. J. Walser. 2,661,173, Dec. 1.
Muffle-type furnace. A. J. Lincoln and G. D. Courtright. 2,661,385, Dec. 1.
Muffler with sound absorbing panels, Air-cooled exhaust. C. W. Lemmermen. 2,661,072, Dec. 1.
Multipart retractable structure. T. F. Ziegler. 2,661,082, Dec. 1.
Musical instrument body. N. U. Prescott. 2,660,912, Dec. 1.
N-alkyl-9-xanthene-carboxamides, basically substituted derivatives and salts thereof. J. W. Cusic. 2,661,351, Dec. 1.
N,N-disubstituted 9-xanthenecarboxamides. J. W. Cusic. 2,661,353, Dec. 1.
Nail feeding and driving implement. J. Thornton. 2,660,727, Dec. 1.
Nitrogen and phosphorus containing product and producing same. J. E. Malowan. 2,661,264, Dec. 1.
Nonferrous alloy. M. Gorschalki. 2,661,285, Dec. 1.
Nozzle, Automatic shutoff liquid dispensing. A. J. Huisman. 2,661,136, Dec. 1.
Nozzle for making packaged sundaes. F. T. Moser. 2,660,964, Dec. 1.
Nozzle, Viscosity compensating variable-area fuel. H. M. Fox. 2,661,243, Dec. 1.
Nuclear electrical generator. E. G. Linder. 2,661,431, Dec. 1.
Oil pan assembly, Removable. R. E. Morgan. 2,661,255, Dec. 1.
Oil well packer. J. Rockoff. 2,661,064, Dec. 1.
1-cyclohexyl-3, 3-dialkylureas and their use as herbicides. N. E. Searle. 2,661,272, Dec. 1.
1,4-dibromo-2,2,3,3-tetrachlorobutane. G. Calingaert. 2,661,379, Dec. 1.
Opener, Retractable furrow. S. D. Pool and E. M. Van Buskirk. 2,660,939, Dec. 1.
Organic phosphorus compounds, and in particular, of dialkyl phosphites, Preparation of. M. L. Ernsberger and J. W. Hill. 2,661,364, Dec. 1.
Ornament, Artificial waterproof hair. J. H. Bennett. 2,660,826, Dec. 1.
Orthopedic device. J. J. Ritchey. 2,660,814, Dec. 1.
Orthopedic garment, Protective. J. E. Silverman. 2,661,002, Dec. 1.
Oven, Baking. T. R. and W. Neutelings. 2,660,961, Dec. 1.
Oxidative dehydrogenation of cyclic hydrocarbons. B. Orkin. 2,661,380, Dec. 1.
Package binding tool. G. A. Crosby and A. I. Ericsson. 2,661,030, Dec. 1.
Packaging machine. S. P. Rety and J. F. Moore. 2,660,843, Dec. 1.
Pad: *See*—
Letter pad.
Waterproof laminated mattress pad.
Padlock for use with hasps. A. W. Beach. 2,660,872, Dec. 1.
Paper and producing same, Coated. J. L. Azorlosa. 2,661,309, Dec. 1.
Paper roll holder. S. Salmonson. 2,661,165, Dec. 1.
Passenger holding device for automotive vehicles, Safety. D. W. Lockwood. 2,661,221, Dec. 1.
Pavement marker. A. R. Howell and O. W. Tackett. 2,660,791, Dec. 1.
Peresters of peroxycarboxylic acids. F. H. Dickey. 2,661,363, Dec. 1.
Pharmacologically valuable stereoisomers of certain amino alcohols and their salts. C. Schöpf and K. J. Kunz. 2,661,372, Dec. 1.
Phase contrast apparatus for metallographic microscopes. J. R. Benford. 2,660,923, Dec. 1.
Phase splitting network. W. Saraga. 2,661,458, Dec. 1.
Phenols and acyclic aldehydes, Production of. J. C. Conner, Jr. 2,661,375, Dec. 1.
Phosphorous oxychloride and ammonia reaction products in flame retarding compositions applied to cellulosic materials. M. L. Nielsen. 2,661,263, Dec. 1.
Phosphorous oxychloride-anhydrous ammonia reaction products and water-soluble resin compositions for rendering cellulosic materials fire resistant. J. E. Malowan. 2,661,342, Dec. 1.
Photopolymerization process. E. G. Howard, Jr. 2,661,331, Dec. 1.
Piezoelectric device. H. Jaffe. 2,661,433, Dec. 1.
Piezoelectric device. J. E. Mumper. 2,661,432, Dec. 1.
Pig iron, Producing. E. Edwin. 2,661,278, Dec. 1.
Pigmented spinning solution, Making. H. Paul and J. T. Watts. 2,661,299, Dec. 1.
Pilot operated valve. G. M. Geiger. 2,661,017, Dec. 1.
Piston for combustion engines, Light metal. M. Kuhm. 2,661,256, Dec. 1.
Pivot for chair arms or the like. W. H. Murphy. 2,661,227, Dec. 1.
Pivotal construction. R. C. Wilson. 2,661,228, Dec. 1.
Pivoted sheet metal flanging hand tool. E. P. Morse and P. Fornaro. 2,660,909, Dec. 1.
Plaster molding rubber articles. J. C. Moore. 2,660,760, Dec. 1.
Play suit, Child's. S. Nordling. 2,660,730, Dec. 1.
Pliers, Offset cutting. J. Loyd. 2,660,786, Dec. 1.
Plow, Trench digging. T. Lippis. 2,660,815, Dec. 1.
Plunger construction. D. G. Knox. 2,661,024, Dec. 1.
Polishing apparatus, Shoe. C. A. de Gonzalez. 2,660,749, Dec. 1.
Polysaccharide derivatives of substituted dicarboxylic acids. C. G. Caldwell and O. B. Wurzburg. 2,661,349, Dec. 1.
Polysiloxane resins, Preparing. C. E. Welsh and N. G. Holdstock. 2,661,348, Dec. 1.
Porous electrode plates and making such articles. K. Ackermann and L. Schlecht. 2,661,387, Dec. 1.
Position locating system. L. F. Jones. 2,661,467, Dec. 1.
Positioning and holding fasteners in explosively actuated fastener driving tools, Means for. B. Weingart. 2,660,726, Dec. 1.
Post-enucleated implant, Movable. W. Stone, Jr. 2,660,732, Dec. 1.
Power train for vehicle power take-off shaft and auxiliary unit. J. S. Ross. 2,660,892, Dec. 1.
Precipitation hardenable iron base alloy. J. D. Nisbet. 2,661,284, Dec. 1.
Precision feed adjustment. H. E. Balsiger. 2,660,842, Dec. 1.
Pressure loaded gear pump. J. A. Lauck. 2,660,958, Dec. 1.
Pressure regulator. W. F. MacGlashan, Jr. 2,660,834, Dec. 1.
Primary cells. A. J. Warner and A. R. Gobat. 2,661,388, Dec. 1.
Priming arrangement for centrifugal pumps. F. A. Waterous. 2,660,956, Dec. 1.
Process. L. H. Beckberger and R. C. Woerner. 2,661,383, Dec. 1.
Producing a colored photographic image by means of exhaustion of developer. E. H. Land. 2,661,293, Dec. 1.
Producing textured films, Method and apparatus for. L. H. and F. M. Smith. 2,660,757, Dec. 1.
Product for dispensing a liquid-coated sheet. E. H. Land. 2,661,292, Dec. 1.
Projection screen. C. G. Burton. 2,660,927, Dec. 1.
Projector, including shutter structure for preheating film, Motion-picture. W. Borberg. 2,660,917, Dec. 1.
Prop, Metallic. K. Gerlach. 2,661,180, Dec. 1.
Propeller pitch control. T. B. Martin. 2,661,067, Dec. 1.
Pulling pipe from a well, Method and means of. C. R. Owens. 2,661,063, Dec. 1.
Pulverizer, Multiple screen. G. F. Thomas. 2,661,159, Dec. 1.
Pump: *See*—
Pressure loaded gear pump.
Pump assembly, Fluid. W. H. Tinker and H. C. Weber. 2,660,953, Dec. 1.
Pump unit and cooling means, Motor. E. A. G. Hill and N. K. Lovatt. 2,661,146, Dec. 1.

Punchboard chance counting punch means. G. Anderson. 2,661,153, Dec. 1.
Purification of tyrosine. B. B. Dowling. 2,661,371, Dec. 1.
Purification of water. H. L. Schein. 2,661,333, Dec. 1.
Purification process. D. A. High. 2,661,265, Dec. 1.
Rack: *See*—
Folding display rack.
Rammer. O. W. Marlow. 2,660,928, Dec. 1.
Ratchet wrench. A. E. G. Sellers. 2,660,910, Dec. 1.
Rate of pressure change regulating instrument. B. E. Del Mar. 2,660,942, Dec. 1.
Razor. J. N. Graef. 2,660,782, Dec. 1.
Reacting gaseous media in the presence of hot contact material, Process and apparatus for. J. E. Evans. 2,661,322, Dec. 1.
Receptacle and trough, Combined feed. C. O. Jorenby. 2,660,981, Dec. 1.
Receptacle to be mounted to the neck of a container holding a liquid to be dispensed, Dispensing. I. C. Richards. 2,661,127, Dec. 1.
Record changer, Phonograph. D. H. Mills and A. L. Knox. 2,661,216, Dec. 1.
Record playing device. F. L. Bidinger. 2,661,217, Dec. 1.
Recorder, Multiple range. C. F. Salzman, Jr. 2,661,260, Dec. 1.
Recording dip of geological strata, Method and apparatus for. A. Wolf. 2,661,464, Dec. 1.
Recrystallizing or restabilizing oriented amorphous rubber hydrochloride film. L. Peters. 2,660,761, Dec. 1.
Reel: *See*—
Advancing reel.
Reel for motion-picture projectors, Film. R. S. Yeats. 2,661,210, Dec. 1.
Refining vessel draw-off system. A. L. Sawyer. 2,661,093, Dec. 1.
Refrigerated display case. H. A. Morris. 2,660,864, Dec. 1.
Refrigeration and air conditioning equipment. W. G. Durant. 2,660,865, Dec. 1.
Regeneration of a Fischer-Tropsch reduced iron catalyst. W. C. Lanning. 2,661,338, Dec. 1.
Regulator: *See*—
Pressure regulator.
Remote control of sawmill setworks by electromechanical means. T. H. Balch and R. F. Van De Mark. 2,661,036, Dec. 1.
Removal of oxygenated organic compounds from hydrocarbons. E. F. Wadley and J. T. Horeczy. 2,661,362, Dec. 1.
Removing poultry gizzard linings. M. I. Darrow, G. R. Biddinger, and W. J. Patterson. 2,660,756, Dec. 1.
Removing rust from metal surfaces. E. S. Criddle. 2,661,314, Dec. 1.
Removing tellurium from antimony. Y. E. Lebedeff and W. C. Klein. 2,661,280, Dec. 1.
Rendering cellulosic materials fire resistant with phosphorous oxychloride-anhydrous ammonia reaction products and products produced thereby. R. L. Jenkins. 2,661,311, Dec. 1.
Repairing bell housing assemblies. T. C. Gerner. 2,660,778, Dec. 1.
Rest for electric irons. H. W. Wilson. 2,660,820, Dec. 1.
Retaining ring. F. D. Frisby. 2,660,913, Dec. 1.
Retort type sectional high-frequency furnace. G. T. Lundgren. 2,661,386, Dec. 1.
Ring: *See*—
Retaining ring.
Rivet remover and setter, Portable. F. G. Davis. 2,661,112, Dec. 1.
Rock crusher having contained rock screening and cooperating grate means. F. D. Fogle. 2,661,158, Dec. 1.
Rod rotator for deep well pumps. J. L. Paterson. 2,660,893, Dec. 1.
Roll shifting means for resaw devices. D. M. Daniel. 2,661,033, Dec. 1.
Roller housing with line reeving arrangement. L. Isachsen. 2,661,185, Dec. 1.
Roof for vehicles, Sliding. W. H. Bishop. 2,661,234, Dec. 1.
Rotor wheel. O. M. Koskinen. 2,660,957, Dec. 1.
Rubberizing hollow articles of fibrous material. J. Duarry-Serra. 2,661,306, Dec. 1.
Ruling and striping device. C. E. Burckel. 2,660,951, Dec. 1.
Rust inhibiting composition. K. F. Schiermeier and H. A. Poitz. 2,661,296, Dec. 1.
Safety pressure device. R. S. Coffman and H. N. Simms. 2,661,121, Dec. 1.
Saturable core transformer system. A. V. Hemingway and P. D. Atkinson. 2,661,453, Dec. 1.
Saw guard, Hack. L. S. Swain. 2,660,974, Dec. 1.
Saw, Vertically-adjustable tree-felling tractor mounted. J. T. Ryals. 2,661,035, Dec. 1.
Scale, Air lock coal. A. J. Stock. 2,661,181, Dec. 1.
Scale, Over and underweight. A. van Dyn. 2,661,202, Dec. 1.
Scarf fastener. E. S. Dunning. 2,660,731, Dec. 1.
Scissors with removable blade sections. M. L. Cobb. 2,660,788, Dec. 1.
Scoop with ejection mechanism, Measuring. A. O. Greene. 2,660,784, Dec. 1.
Scraper, Wood. S. Shaler. 2,660,785, Dec. 1.
Screen: *See*—
Projection screen.
Screen assembly, Sliding. M. V. Noecker. 2,661,059, Dec. 1.
Sealed rectifier. J. H. Hall. 2,661,447, Dec. 1.
Sealing assembly. L. G. Saywell. 2,661,226, Dec. 1.
Seam ripping device. A. J. Parker and L. M. Murray. 2,660,787, Dec. 1.
Seat structure, Motor vehicle. M. C. Blanken. 2,661,047, Dec. 1.
Seeder and planter apparatus. F. S. Ajero. 2,661,124, Dec. 1.
Separation of bile acids. R. H. Sifferd. 2,661,356, Dec. 1.
Separation of wax constituents and the like from oil. W. E. Skelton, H. V. Hess, G. B. Arnold, and B. L. Mahan. 2,661,317, Dec. 1.
Separator: *See*—
Air-moisture separator.
Endless belt magnetic separator.
Separator for liquids, Variable volume. W. B. Stewart. 2,661,094, Dec. 1.
Servomotor and control system therefor. R. S. Curry, Jr., and P. Halpert. 2,661,452, Dec. 1.
7-substituted dialkylxanthines and process of preparing same. W. H. Feinstone and B. F. Duesel. 2,661,352, Dec. 1.
Sewage treatment. E. N. Mortenson. 2,661,332, Dec. 1.
Shaving gears. W. S. Praeg. 2,660,929, Dec. 1.
Sheet distributor. D. C. McGalliard. 2,661,209, Dec. 1.
Shield for rosette making machine, Separable. R. Cruz. 2,660,777, Dec. 1.
Shock absorber testing and indicating apparatus. W. L. Allen. 2,660,879, Dec. 1.
Shock absorbing drag strut for aircraft landing gears. S. A. Gordon, M. P. Espy, C. H. Cooke, and M. G. Gertel. 2,661,203, Dec. 1.
Shock-absorbing suspension device, Resilient. F. S. Allinquant. 2,661,207, Dec. 1.
Shoe forming and pressing machine. M. L. and A. A. Dodge. 2,660,741, Dec. 1.
Shoe, Track. I. Shapiro. 2,660,813, Dec. 1.
Shoes, Making rigidified slip-lasted. J. Meltzer. 2,660,743, Dec. 1.
Shoes with counter-stiffened quarters and full-length stitched-in sock linings, Making force-lasted. J. Meltzer. 2,660,742, Dec. 1.
Shuffler, Card. F. H. Stevens. 2,661,215, Dec. 1.
Shuttle feeler with weft cutter for replenishment looms. V. Divišek. 2,661,027, Dec. 1.
Side bar cylinder lock. R. C. Spain. 2,660,876, Dec. 1.
Signal for automobiles, Automatic fluid level. H. Berger. 2,661,411, Dec. 1.
Signaling device for vacuum milking machines. H. W. Hein. 2,660,976, Dec. 1.
Signaling system, Variable resistance. K. O. I. Styrén and H. Jefferson. 2,661,395, Dec. 1.
Silencer or muffler. F. E. Deremer. 2,661,073, Dec. 1.
Simulated motor. N. J. Portlance. 2,660,973, Dec. 1.
16-keto-17-hydroxy steroids, Production of. M. N. Huffman. 2,661,357, Dec. 1.
Ski, Flexible. B. P. Coulson, Jr. 2,661,219, Dec. 1.
Slicer, Block ice-cream. R. H. Bloxham. 2,660,962, Dec. 1.
Slicing and dicing apparatus, Vegetable. F. G. Davis and M. M. Kennedy. 2,661,039, Dec. 1.
Slide fastener. H. Heimann and I. Shur. 2,660,774, Dec. 1.
Sling. L. M. Caldwell. 2,661,231, Dec. 1.
Soil stabilization. C. L. Walsh, W. B. Hawes, and F. Foulger. 2,661,297, Dec. 1.
Sorting machine. B. R. Garrett. 2,661,090, Dec. 1.
Sound and heating apparatus for drive-in theaters. W. G. and G. J. Dion. 2,660,943, Dec. 1.
Spade, shovel, fork or the like tool. A. Helin. 2,661,186, Dec. 1.
Spare tire and wheel carrier. J. R. Evans. 2,661,130, Dec. 1.
Spare tire carrier. R. Roy. 2,661,131, Dec. 1.
Spectacle with vertically adjustable lenses. R. F. E. Stegeman. 2,660,924, Dec. 1.
Speed and direction power unit, Variable. P. M. Schmitt. 2,660,861, Dec. 1.
Speed and direction power unit, Variable. A. Taub. 2,660,860, Dec. 1.
Speed sensing unit, Pneumatic. O. H. Milmore. 2,660,886, Dec. 1.
Spinal column aligning table. K. N. Thornton. 2,660,999, Dec. 1.
Spout, Tamper and seal proof flexible pouring. I. H. Rieke. 2,661,128, Dec. 1.
Spraying machine. K. R. Kurzbin. 2,661,242, Dec. 1.
Spring for automobile leaf springs, Auxiliary. F. Corey. 2,661,205, Dec. 1.
Stabilization of glyceride oils. A. W. Schwab, C. D. Evans, and P. M. Cooney. 2,661,358, Dec. 1.
Stabilized acrylonitrile polymers. R. J. Slocombe and G. L. Wesp. 2,661,343–5, Dec. 1.
Stabilized acrylonitrile polymers. G. L. Wesp and R. J. Slocombe. 2,661,346–7, Dec. 1.
Stacking and conveying apparatus. J. W. and R. J. Fay. 2,661,103, Dec. 1.
Stacking machine, Tray. W. G. Trigwell. 2,661,102, Dec. 1.
Stand: *See*—
Gold bag holding stand.
Stapling device. F. R. Curtiss. 2,660,725, Dec. 1.
Starting device, Race horse. W. E. Giese. 2,660,980, Dec. 1.

Stay in gear. R. H. Watson. 2,660,903, Dec. 1.
Steering linkage connection, Resilient. J. Latzen. 2,660,901, Dec. 1.
Steering wheel mounted holder. T. Wolfe. 2,661,222, Dec. 1.
Stereoscope, Illuminated. J. E. Gaulke. 2,660,921, Dec. 1.
Stirring device, Fluid. M. Silver. 2,661,193, Dec. 1.
Stocking. K. F. Naumann. 2,660,868. Dec. 1.
Stop flag, Folding patrol. J. H. Sprenger and R. L. Jefferson. 2,660,975, Dec. 1.
Stop for slide fasteners. L. M. Dorman. 2,660,773, Dec. 1.
Stove and ash discharge means therefor. C. E. Chesser. 2,660,997, Dec. 1.
Strainer. E. E. Tinker. 2,661,096, Dec. 1.
Striking bag construction. A. F. Hilton. 2,661,212, Dec. 1.
Strip pickling apparatus and saturable reactor control therefor. T. Dunnegan, Jr., and H. M. Ogle. 2,661,009, Dec. 1.
Stripping multilayer negatives. G. F. Rackett. 2,661,290, Dec. 1.
Stuffer valve. F. A. Zaenkert. 2,660,755, Dec. 1.
Suction cleaner. J. E. Vance. 2,661,078, Dec. 1.
Suction cleaner with cord reel. D. C. Gerber. 2,661,074, Dec. 1.
Superbleaching chemical pulp. R. L. McEwen, F. R. Sheldon, and W. F. Schroeder. 2,661,261, Dec. 1.
Supercharger driving control. E. W. Wasielewski. 2,660,991, Dec. 1.
Support: *See*—
Adjustable clothes-line Corsage support.
support.
Surgical splint. W. E. Gazeley, R. W. Meysner, and F. P. Graul. 2,661,000, Dec. 1.
Suspension device for vehicles. J. A. Gregoire. 2,661,206, Dec. 1.
Suspension of vehicles. J. A. Gregoire. 2,661,204, Dec. 1.
Sweep generator protection circuit. A. J. Talamini, Jr., and R. C. Palmer. 2,661,421, Dec. 1.
Switch: *See*—
Electrical switch.
Switch. H. K. Gandelot. 2,661,400, Dec. 1
Switch. J. E. Jones. 2,661,407, Dec. 1.
Switch actuator. T. H. Balch. 2,661,402, Dec. 1.
Switch for cable hoists, Safety down limit. J. A. Western. 2,661,405, Dec. 1.
Synthesis gas, Manufacture of. T. B. Hudson. 2,661,270, Dec. 1.
Synthesis of 4-hydroxy-2-cyclopenten-1-ones. M. S. Schechter and F. B. La Forge. 2,661,374, Dec. 1.
Table: *See*—
Conveyer table.
Spinal column aligning table.
Tank: *See*—
Knockdown fuel tank.
Television keystone balance control circuit. H. R. Smith. 2,661,443, Dec. 1.
Templet and supporting frame for locating hinge butt recesses in doors and doorframes. E. P. Sacrey. 2,660,803, Dec. 1.
Tent. F. M., T. C., and D. W. Powers. 2,661,010, Dec. 1.
Test equipment for measuring the flatness and plane parallelism of glass surfaces of any desired size and thickness by light wave interference. T. W. Zobel and F. Mirus. 2,660,916, Dec. 1.
Tetraethyllead, Manufacture of. W. B. Grandjean. 2,661,361, Dec. 1.
Textile finishing composition and treating textile materials therewith. G. M. Richardson. 2,661,312, Dec. 1.
Therapeutic preparation, Prolonged-effectiveness injectable. A. E. Jurist, J. C. Burke, and W. E. Gaunt. 2,661,315, Dec. 1.
Timer, Reel. C. Mingione. 2,660,797, Dec. 1.
Timing means for fuel pumps, Automatic. V. D. Roosa. 2,660,992, Dec. 1.
Tire and apparatus therefor, Siping. J. C. Heintz. 2,660,767, Dec. 1.
Tire and rim assembling apparatus, Automatically adjusting power-operated. E. Mullen. 2,661,053, Dec. 1.
Tire display. S. Dubin and J. Goldberg. 2,660,823, Dec. 1.
Tire pressure gauge. O. F. Fletcher. 2,660,890, Dec. 1.
Titanium base alloys containing silicon. E. F. Swazy, R. H. Frey, and L. S. Busch. 2,661,286, Dec. 1.
Tobacco drier. G. H. Swearingen. 2,660,995, Dec. 1.
Tool: *See*—
Abrasive wheel dressing tool.
Automatic cycle machine tool.
Package binding tool.
Pivoted sheet metal flanging hand tool.
Tool-bar for crawler tractors. L. H. Kaupke. 2,660,938, Dec. 1.
Tool with liquid spring actuated ram, Machine. R. F. Zumwalt. 2,660,984, Dec. 1.
Tool with variable drive, Compound woodworking. L. McGihon. 2,661,037, Dec. 1.
Toothbrush, Oscillating. S. Yusko. 2,660,745, Dec. 1.
Totalizer engaging means. M. A. Goodbar, E. H. Placke, and C. G. Falkner. 2,661,151, Dec. 1.
Tow mechanism, Car. C. E. Morgan. 2,661,106, Dec. 1.
Track composed of rubber bonded to flexible metal bands, Endless. G. Bonmartini. 2,661,249, Dec. 1.
Track device for vehicles and the like. G. Bonmartini. 2,661,251, Dec. 1.
Track for vehicles and the like, Pneumatic endless. G. Bonmartini. 2,661,250, Dec. 1.
Tracking and fire control system, Stabilized. C. G. Holschuh, E. B. Hammond, Jr., and W. T. White. 2,660,793, Dec. 1.
Trailer, Transport. J. C. Horn and R. W. Wilson. 2,661,108, Dec. 1.
Transfer resistor and making. G. H. Rodgers, Jr. 2,661,448, Dec. 1.
Transient pressure detector. J. W. Matthews. 2,661,460, Dec. 1.
Transmission. W. E. Swenson. 2,660,900, Dec. 1.
Transmission, Multispeed. R. F. McCammon. 2,660,899, Dec. 1.
Transmitting and receiving apparatus and method for electromagnetic prospecting. W. M. Barret. 2,661,466, Dec. 1.
Tread construction for tire casings. J. A. Walsh. 2,661,041, Dec. 1.
Treadmill for walking toys. H. M. Black. 2,660,811, Dec. 1.
Treating electroplated magnesium castings. H. K. De Long. 2,661,329, Dec. 1.
Treating materials with intense alternating shear forces, Means for. C. B. Horsley and G. C. Seavey. 2,661,192, Dec. 1.
Treatment of steel. R. J. Wilcox and F. G. Vihtelic. 2,661,279, Dec. 1.
Trim fastening means for vehicle seats. C. E. McCormick. 2,661,051, Dec. 1.
Trimmer and edger, Grass. E. F. Britten, III. 2,660,847, Dec. 1.
Trip means for rotary metered mailing machines. H. L. Lambert. 2,660,950, Dec. 1.
Truck, Close coupled. H. J. Frambein. 2,661,183, Dec. 1.
Tube: *See*—
Dark trace cathode-ray tube.
Tube delivery apparatus. R. W. Falconer. 2,661,099, Dec. 1.
Tube test device, Cathode-ray. E. J. Davenport. 2,661,445, Dec. 1.
Turbine control system, Combined manual and speed responsive gas. H. E. Reichert. 2,661,429, Dec. 1.
2-(2-ethylhexyloxy) ethyl N-butyl phthalate and preparing same. J. Dazzi. 2,661,367, Dec. 1.
Umbrella construction. D. M. Cohen. 2,661,011, Dec. 1.
Umbrella, Tiltable. V. Militano. 2,661,012, Dec. 1.
Unit for translating punched card data. G. W. Carlson. 2,661,154, Dec. 1.
V-type connector belts, Making. W. E. Huber. 2,661,045, Dec. 1.
Valve: *See*—
Automatic blow-down valve.
Fluid pressure-operated valve.
Flushing valve.
Pilot operated valve.
Stuffer valve.
Valve assembly, Drum. J. R. Snyder. 2,661,018, Dec. 1.
Valve control, Diaphragm. S. G. Eskin and R. C. Main. 2,661,013, Dec. 1.
Valve of the poppet type, Relief. E. H. Leffler. 2,661,016, Dec. 1.
Valve rotating device. A. W. Zmuda and T. H. Mitzelfeld. 2,660,990, Dec. 1.
Valve with removable bushing and packing structure, Multiway piston. S. M. Kipp. 2,661,182, Dec. 1.
Vaporization and combustion process for hydrocarbon distillates. E. C. Hvatt, L. L. Lyon, Jr., and W. R. Swanson. 2,661,271, Dec. 1.
Variable resistor and actuator therefor. A. M. Daily and J. G. Veatch, Jr. 2,661,415, Dec. 1.
Varicose vein stripper with flexible guide leader. W. J. Devine and B. J. Carroll. 2,661,003, Dec. 1.
Vehicle for timber transport. L. Isachsen. 2,661,235, Dec. 1.
Vehicle signaling. T. M. Ferrill, Jr. 2,661,070, Dec. 1.
Vehicle speed control, Motor. L. G. Hoener. 2,661,071, Dec. 1.
Vehicle washing pellet reclaiming apparatus, Motor. J. S. Cockrell. 2,660,744, Dec. 1.
Vending machine having tiltable bottle cradle for moving bottles to vending position. R. H. Menning and R. T. Manley. 2,661,107, Dec. 1.
Venetian blind parts. B. Walker. 2,661,058, Dec. 1.
Ventilating system, Internal-combustion engine. R. T. Doughty. 2,660,987, Dec. 1.
Viscosimeter, Recording. L. M. Evans. 2,660,885, Dec. 1.
Wall hook. H. W. Wannop. 2,661,098, Dec. 1.
Washing-up machine. S. G. Salomonsson. 2,661,240, Dec. 1.
Water-in-oil emulsion drilling fluid. J. L. Lummus. 2,661,334, Dec. 1.
Waterproof laminated mattress pad. V. H. Baum. 2,660,735, Dec. 1.
Wattmeter-varmeter. W. B. Boast and J. D. Ryder. 2,661,457, Dec. 1.
Web feeding mechanism for cash registers and the like. F. R. Werner. 2,661,061, Dec. 1.
Weft stop motion for narrow fabric looms. M. Siegel. 2,661,028, Dec. 1.
Weigher, Check. L. H. Bowes. 2,661,201, Dec. 1.

Welding apparatus, Transportable. K. J. Aversten. 2,661,428, Dec. 1.

Welding head for simultaneously effecting a series of spot welds according to the double spot method. K. Eisenburger. 2,661,416, Dec. 1.

Wheel: *See*—
Buffing wheel.
Rotor wheel.

Wheel assembly for suitcases or the like. F. W. Davis. 2,661,220, Dec. 1.

Wheel containing shock absorbing springs, Vehicle. J. K. Babies. 2,661,043, Dec. 1.

Wheel driving and steering mechanism. H. G. Cooper. 2,661,069, Dec. 1.

Whey products and manufacture. L. H. Francis and N. E. Rodgers. 2,661,295, Dec. 1.

Wide band spectrum analyzer. B. H. Tongue. 2,661,419, Dec. 1.

Winch and spring suspension construction for dump trailers. E. A. Schomröck. 2,661,236, Dec. 1.

Winch, Conduit pulling. A. Dailey. 2,661,187, Dec. 1.

Wind and rewind system for strip materials, Automatic. P. E. Greene. 2,661,163, Dec. 1.

Window frame. R. E. Lee. 2,660,764, Dec. 1.

Windshield wiper drive apparatus. C. P. McClelland. 2,660,894, Dec. 1.

Windshield wiper tensioning attachment. R. V. Gaumer. 2,660,748, Dec. 1.

Wing mounting for helicopter-airplane. J. Mortka. 2,661,168, Dec. 1.

Wiping machine, Label. C. C. Gerhardt. 2,661,109, Dec. 1.

Wire feed for stapling machines. C. Z. Monroe. 2,661,032, Dec. 1.

Wire mesh, Making a fine. E. J. Walsh. 2,661,029, Dec. 1.

Work-supported guide for portable power saws, Angularly adjustable. G. A. MacDonald. 2,661,034, Dec. 1.

Wrench: *See*—
Ratchet wrench.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 1, 1953

NOTE.—First number—class, second number—subclass, third number—patent number.

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CLASSIFICATION OF DESIGNS

D 3—10: Des. 170,970
D 4— 3: Des. 171,001
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D92— 1: Des. 171,015

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REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,637,591. Main Line Terminal Means for Logging Gears. Patented May 5, 1953. Assembly for attaching a series of choker cables to the main haul-in line of a conventional logging unit for dragging logs along the ground to a central point so distributes the weight that heavy logs can be handled without any one piece of equipment being burdensome in use. A special fitting for attaching each choker cable to the main line has a main portion in which the end of a choker cable is anchored and an angular portion forming an obtuse angle with the main portion. A restricted slot in the angular portion communicates with an enlarged opening in the main portion so that a ferrule on the outer end of the main line may be passed through the opening, and the cable loosely inserted in the slot. Any required number of chokers, each equipped with one of the fittings, may be threaded on the main line. As the main line is reeled in, the angular portion of the fitting on the remotest choker will abut the ferrule on the main line. Thereafter, the angular portions of all the fittings will successively engage in abutting relationship. (Owners) Albert A. Rue and Olger Harry Sandberg. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Group 24—11—21. Reg. No. 52,120.

Pat. 2,441,960. Manufacture of Electric Circuit Components. Patented May 25, 1948. Reg. No. 52,121.

Pat. 2,587,568. Manufacture of Electric Circuit Components. Patented Feb. 26, 1952. Reg. No. 52,122.

These two patents relate to the field of printed circuitry and have an identical disclosure. They disclose a process specifically designed for automatic and quantity production of electronics and ease of subminiaturization. They point the way to eliminating the complexity of the maintenance and repair of electrical equipment. Electrical equipment produced by this process may range from simple wiring networks to hearing aids, and radio and television receivers.

The process commences with the printing of the circuit lay-out of any desired electrical unit upon the metallic surface of a composite panel made up of a sheet of insulation which has been provided with a conductive covering. Foil is generally utilized as a conductive covering because of its very excellent electrical characteristics. Printing may be accomplished by utilizing any of the techniques of the graphic arts, ranging from letter press printing to the silk screen and photo chemical techniques. The circuit pattern is laid out on the foil in a medium resistant to chemical attack, and thereafter the unprinted portions of the foil are generally removed in an etching bath or by electrolysis to produce an operative electric circuit. The process includes certain plating techniques. (Owner) Technograph Printed Electronics Incorporated, 185 Valley St., Tarrytown, N. Y. Group 36—19.

Pat. 2,644,333. Liquid Meter. Patented July 7, 1953. Meter for measuring crude petroleum or similar liquids, even in irregular flow and with varying viscosity, comprises a shell which defines a gas-liquid separator space, a pair of metering chambers having a shiftable inlet means, and separate outlet means for each chamber. The inlet means includes a siphon, the lower end of which is provided with a pivot elbow terminating in a spout which pivots to discharge liquid alternately into the chambers. Each outlet means includes a movable buoyant open-top float member and means whereby, when the liquid has exceeded a predetermined level, the float receives a buoyancy-overbalancing quantity of liquid and sinks to discharge the contents of the chamber. By means connecting each outlet with the inlet means, liquid is directed into one chamber as the float in the other chamber submerges and the chamber is emptying. Oscillation of a walking beam on the pivot elbow shaft operates a suitable counter. (Owner) Ray Duus, 4508 Cedros Ave., Sherman Oaks, Calif. Group 35—65. Reg. No. 52,123.

Pat. 2,502,825. Pipe Cutter. Patented Apr. 4, 1950. Adjustable pipe cutter for plumbers and the like includes a series of cold chisels movably contained within a flexible holder, preferably in the form of a series of links secured together by pins. Each chisel has a notch in its opposite sides to receive the pins and slidably secure the chisel to the chain between the links. A resilient fastener at the end of the chain has a spring pivoted to the end pin and carries a manually operated U-shape lever having a fork that fits over the pivot pin and swivels thereon to draw the ends of the chain together for securing the cutter around a pipe to be cut. After the cutter is clamped around a pipe, each chisel is struck with a hammer until the pipe is severed. Cutter may be removed by releasing the lever. (Owner) Robert C. Coburn, 55 Vine St., Hartford, Conn. Group 33—52. Reg. No. 52,124.

The Shawinigan Water and Power Company offers for license on reasonable terms the following two patents. Inquiries should be directed to Patent Department, The Shawinigan Water and Power Company, P. O. Box 6072, Montreal, Quebec, Canada.

Pat. 2,537,229. Production of Acid-Soluble Titania Slags. Patented Jan. 9, 1951. A slag high in titania of ready solubility in sulfuric acid is produced from a titaniferous iron ore or a concentrate. Groups 28—12; 32—95. Reg. No. 52,125.

Pat. 2,611,852. Electric Boiler. Patented Sept. 23, 1952. Improved operation of electric boilers of the electrode type in which the load is regulated by changing the water level is obtained by spouting water under each electrode. The permissible range of load is also greatly increased. Groups 33—65; 36—21. Reg. No. 52,126.

Shawinigan Chemicals Limited offers for license on reasonable terms the following five patents in addition to twenty-six others previously listed on the Register. Inquiries should be directed to Shawinigan Chemicals Limited, Patent Department, P. O. Box 6072, Montreal, Quebec, Canada.

Schedule A—Equipment or Mechanical Process

Pat. 2,548,212. Process of Briquetting and Product Thereof. Patented Apr. 10, 1951. Powdered inorganic material (e. g., lime, zinc oxide, or mixtures of these, with coke) are briquetted at elevated temperatures to give strong briquets. Group 29—91. Reg. No. 52,127.

Schedule D—Chemical Processes

Pat. 2,443,913. Sulfonated Crotonaldehyde-Rosin Reaction Product and Process for Making Same. Patented June 22, 1948. The reaction product of aqueous crotonaldehyde and sulphur dioxide is reacted with rosin or rosin oil to give products useful as syntans or as surface-active agents. Group 28—89. Reg. No. 52,128.

Pat. 2,552,934. Process of Chlorinating Acetaldehyde. Patented May 15, 1951. Detailed conditions are set forth to give enhanced yield of chloral. Group 28—89. Reg. No. 52,129.

Pat. 2,606,864. Process of Refining Chloral. Patented Aug. 12, 1952. Chloral of high purity and excellent stability is obtained by a selected sequence of steps, including azeotropic distillation, from crude chloral prepared by chlorination of acetaldehyde. Group 28—89. Reg. No. 52,130.

Schedule E—Resins

Pat. 2,326,539. Powdered Resin Manufacture. Patented Aug. 10, 1943. Thermoplastic resins, containing at least some hydroxyl groups and otherwise difficult to grind powders, are reacted with boric acid to yield a brittle reaction product, which is easily ground to any desired fineness. The boric acid is then removed by simple means to give the original resin. Group 28—83. Reg. No. 52,131.

Pat. 2,511,860. Frequency Modulation System. Patented June 20, 1950. This invention relates to signaling systems employing phase or frequency modulation of a carrier wave in accordance with a signal which may represent sound or light or any other phenomenon that it is desired to transmit electrically. The invention employs compact apparatus, most of the elements of which may be contained within a single electric discharge tube, for producing such a phase or frequency modulated signal. The apparatus is particularly adapted to operate at ultra-high frequencies; that is, where the carrier wave is of the order 10^{10} cycles per second. In accomplishing the desired modulation, the sinusoidal standing wave pattern of electric field intensity which is set up in an oscillating cavity resonator is utilized. (Owner) George H. Lee, 145 Orchard Lane, Oak Ridge, Tenn. Group 36—19. Reg. No. 52,132.

Pat. 2,642,225. Fertility Computing Device. Patented June 16, 1953. Device for calculating the rhythm numbers and corresponding calendar dates for menstrual cycles. A box-like device with windows has a time tape extending between a pair of spaced rollers having indicia thereon designating consecutive days of the year. Associated with the time tape are two independently movable fertility-indicating tapes bearing an index for defining a particular day of the time tape. Directions for use are printed on the device. (Owner) George H. Lee, 145 Orchard Lane, Oak Ridge, Tenn. Group 39—11. Reg. No. 52,133.

General Electric Company offers the 29 patents listed below for non-exclusive licensing upon reasonable terms to domestic manufacturers. Applications for license may be addressed to the Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

The following 7 patents relate to welding and brazing systems and methods, and a titanium brazing electrode. Group 36—19.

Pat. 2,568,464. Electric Welding System. Patented Sept. 18, 1951. Reg. No. 52,134.

Pat. 2,574,374. Half Cycling Protective and Indicating Systems. Patented Nov. 6, 1951. Reg. No. 52,135.

Pat. 2,577,163. Resistance Welding and Resistance Weld Testing. Patented Dec. 4, 1951. Reg. No. 52,136.

Pat. 2,607,893. Electric Control Circuits. Patented Aug. 19, 1952. Reg. No. 52,137.

Pat. 2,612,579. Coordination Control Circuit. Patented Sept. 30, 1952. Reg. No. 52,138.

Pat. 2,629,803. Titanium Electrode. Patented Feb. 24, 1953. Reg. No. 52,139.

Pat. 2,629,922. Method of Brazing Resistor Terminals. Patented Mar. 3, 1953. Reg. No. 52,140.

The following 3 patents relate to dynamoelectric machines. Group 36—19.

Pat. 2,272,749. Dynamoelectric Machine. Patented Feb. 10, 1942. Reg. No. 52,141.

Pat. 2,288,408. Alternating Current Commutator Machine. Patented June 30, 1942. Reg. No. 52,142.

Pat. 2,371,962. Dynamoelectric Machine. Patented Mar. 20, 1945. Reg. No. 52,143.

The following 3 patents relate to circuit breakers and protective arrangements. Group 36—19.

Pat. 2,096,614. Protective Arrangement for Electric Systems. Patented Oct. 19, 1937. Reg. No. 52,144.

Pat. 2,629,796. Thermal Trip Mechanism for Circuit Breakers. Patented Feb. 24, 1953. Reg. No. 52,145.

Pat. 2,630,508. Circuit Interrupter. Patented Mar. 3, 1953. Reg. No. 52,146.

The following 3 patents relate to electrical measuring and testing devices. Group 36—13.

Pat. 2,623,385. Torque Measuring Device. Patented Dec. 30, 1952. Reg. No. 52,147.

Pat. 2,629,843. Automatic Electrical Measuring Device. Patented Feb. 24, 1953. Reg. No. 52,148.

Pat. 2,630,472. Method and Apparatus for Inspecting Cavities. Patented Mar. 3, 1953. Reg. No. 52,149.

The following 3 patents relate to: A weft straightener for a moving strip of woven material; an electronic calculator; and a marking and indicating arrangement, which includes a radioactive isotope as the marking means, for marking the boundary between two bodies of oil of different grades flowing in sequence through a single pipe line, and for indicating the rate of flow.

Pat. 2,623,262. Weft Straightener. Patented Dec. 30, 1952. Groups 35—32; 36—19. Reg. No. 52,150.

Pat. 2,630,969. Decimal Counting and Indicating System. Patented Mar. 10, 1953. Groups 35—71; 36—19. Reg. No. 52,151.

Pat. 2,631,242. Demarcation of Fluids in Pipe Lines. Patented Mar. 10, 1953. Groups 29—11; 36—19. Reg. No. 52,152.

The following 2 patents relate to gas turbine power plants. Group 37—22.

Pat. 2,610,786. Axial Flow Compressor. Patented Sept. 16, 1952. Reg. No. 52,153.

Pat. 2,623,610. Air Inlet Screen for Gas Turbines. Patented Dec. 30, 1952. Reg. No. 52,154.

The following 2 patents relate to: A steam turbine valve gear; and an hydraulically operated cable reeling system for mine cars.

Pat. 2,613,542. Valve Gear for Steam Turbines and the Like. Patented Oct. 14, 1952. Group 35—11. Reg. No. 52,155.

Pat. 2,626,112. Cable Reeling System. Patented Jan. 20, 1953. Group 35—33. Reg. No. 52,156.

The following 6 patents relate to: Frequency changer and stabilizer which may be used as a speed-controlling means for electric motors; a reactor particularly adaptable for use with push-pull magnetic amplifier circuits; core structure for fluorescent lamp ballasts; ultra-high frequency resonator; regulating means for electric power transmission lines; and an electron discharge device.

Pat. 2,586,498. Electronic Frequency Changer and Stabilizing Control Means Therefor. Patented Feb. 19, 1952. Group 36—19. Reg. No. 52,157.

Pat. 2,617,090. Saturable Reactor Apparatus. Patented Nov. 4, 1952. Group 36—19. Reg. No. 52,158.

Pat. 2,630,478. Laminated Magnetic Core for Fluorescent Ballast Systems. Patented Mar. 3, 1953. Group 36—19—51. Reg. No. 52,159.

Pat. 2,630,487. Apparatus for Insulatingly Terminating Concentric Conductor Resonators. Patented Mar. 3, 1953. Group 36—19. Reg. No. 52,160.

Pat. 2,631,263. Quick Response Regulating System. Patented Mar. 10, 1953. Group 36—19. Reg. No. 52,161.

Pat. 2,632,866. Velocity Modulation Electron Discharge Device. Patented Mar. 24, 1953. Group 36—19. Reg. No. 52,162.

United States Government Owned Application

The following application for Letters Patent, which has been assigned to the U. S. Government, is offered for licensing. Terms and conditions of licenses may be obtained from the Assistant Chief of Naval Research for Patents, Navy Department, Washington 25, D. C.

Application Serial No. 305,718. Permanent Magnet and Process for Making Same. Process for producing a permanent magnet from manganese bismuthide by utilizing the non-magnetic impurity, bismuth, present in a melt thereof. A finely pulverized powder of manganese bismuthide containing unreacted bismuth is classified by sieving through a screen of the order of 325 mesh. The powder is compacted at a temperature above 273° C. and less than 340° C. under a pressure of the order of 3,000 p. s. i. The compaction is carried out in an orienting magnetic field of 10,000 to 12,000 oerstads to provide alignment of the particles. The unreacted bismuth which is molten above 273° C. provides a fluid medium to facilitate alignment of the particles. While under compaction, the compact is "shaken" to break up particle clusters and to facilitate particle alignment. The resulting compact is then magnetized. Group 36—19. Reg. No. 52,163.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 1, 1953

[VOL. 677. No. 1]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 625,758. Henry B. Rehder, doing business as Will Rehder, Florist, Wilmington, N. C. Filed Feb. 29, 1952.

Green Regents

The word "Green" is disclaimed apart from the mark as shown in the drawing.

For Cut Flowers.

Claims use since May 1949.

Ser. No. 635,531. Green Thumb Products, Toledo, Ohio. Filed Sept. 20, 1952.

GREEN THUMB

Applicant claims ownership of Registration No. 407,413.

For Nursery Products—Namely, All Types of Shrubs, Trees, Plants, Blooming Plants, and Berry Plants, and Products of the Nursery—Namely, Cut Flowers, Seeds, and Bulbs; Charcoal; Cork; Mosses for Decorative Effects, for Plant Packaging and Preserving, for Mixing With Soils, and for Soil Dressings; Soil and Mixtures of Soils for General and Special Plant Propagating and Growing.

Claims use since May 3, 1943.

Ser. No. 635,532. Green Thumb Products, Toledo, Ohio. Filed Sept. 20, 1952.



The drawing is lined to indicate green color but the indicated color is not essential to the mark. Applicant claims ownership of Registration No. 407,413.

For Nursery Products—Namely, All Types of Shrubs, Trees, Plants, Blooming Plants, and Berry Plants, and Products of the Nursery—Namely, Cut Flowers, Seeds, and Bulbs; Charcoal; Cork; Mosses for Decorative Effects, for Plant Packaging and Preserving, for Mixing With Soils, and for Soil Dressings; Soil and Mixtures of Soils for General and Special Plant Propagating and Growing.

Claims use since May 3, 1943.

Ser. No. 636,410. Chromium Mining & Smelting Corporation, Limited, Sault Ste. Marie, Ontario, Canada. Filed Oct. 9, 1952.

ORE-OX

The word "Ore" is disclaimed apart from the mark as shown in the drawing.

For Agglomerated Masses Including Iron Ore and/or Blast Furnace Flue Dust in the Form of Briquettes Suitable for Charging to Metallurgical Furnaces Such as Open-Hearth Furnaces and Blast Furnaces.

Claims use since July 25, 1952.

Ser. No. 637,116. Davis Coal and Coke, Inc., Baltimore, Md. Filed Oct. 24, 1952. (Sec. 2f.)

DAVIS-PENDLETON

Applicant claims ownership of Registration No. 194,591.

For Coal.

Claims use since Oct. 31, 1930.

Ser. No. 637,117. Davis Coal and Coke, Inc., Baltimore, Md. Filed Oct. 24, 1952. (Sec. 2f.)

DAVIS-PIEDMONT

Applicant claims ownership of Registration No. 194,591.

For Coal.

Claims use since 1900.

Ser. No. 644,845. Island Creek Coal Sales Company, Huntington, W. Va. Filed Apr. 7, 1953.



The exclusive use of the words "A Product of Island Creek" is disclaimed apart from the mark as shown in the drawing.

For Coal.

Claims use since Mar. 4, 1953.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 625,303. Staats Oil Company, Malvern, Pa. Filed Feb. 20, 1952. (Sec. 2f.)

STAATS

For Liquified Petroleum.
Claims use since on or about September 1929.

Ser. No. 629,731. Irvington Varnish & Insulator Company, Irvington, N. J., assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn., a corporation of Delaware. Filed May 15, 1952.

CARDOSOL

For Solvents and Resinous Organic Reaction Products in the Liquid, Semi-Solid, and Solid States for Use as Intermediates and Resinous Compositions.
Claims use since May 1938.

Ser. No. 631,011. Lurgi Gesellschaft für Warmetechnik m. b. H., Frankfurt, Germany. Filed June 10, 1952.

Rectisol

Priority under Sec. 44(d). German application filed Dec. 15, 1951, Registration No. 617,304, dated Feb. 28, 1952.
For Agents and Solvents of the Nature of Hydrocarbons, Acetals, Ketones, Aldehydes, Ethers, Aliphatic and Alicyclic Monovalent and Polyvalent Alcohols, Monovalent and Polyvalent Aromatic Alcohols, Esters, Aliphatic Nitrates, Amines, Amino Alcohols, Nitriles, Heterocyclic Nitrogen Bases, Their Mixtures With Each Other and/or With Water for Industrial Chemical Uses.

Ser. No. 631,789. The Chemstrand Corporation, Decatur, Ala. Filed June 26, 1952.

CHEMSTRAND

Applicant claims ownership of Registration No. 554,615.
For Synthetic Fiber-Forming Polymers.
Claims use since June 19, 1952.

Ser. No. 632,048. Refined Products Corporation, Lyndhurst, N. J. Filed July 1, 1952.

PERMA KLEER

For Organic Sequestering Agent Used as a Water Softener in Textile Treatment and Soap Solutions.
Claims use since August 1948.

Ser. No. 637,753. Caled Products Company, Inc., Cottage City, Brentwood, Md. Filed Nov. 7, 1952.



Applicant claims ownership of Registrations Nos. 293,077, 372,376, and others.
For Spot Dyers To Restore Color to Fabrics; Waterproofing Product for Fabrics; Sizing Compound Soluble in Dry Cleaning Solvents for Revitalizing Fabrics; Compositions for Destroying Odors and for Neutralizing Offensive Odors; Composition for Refinishing Leathers.
Claims use since Apr. 8, 1931.

Ser. No. 638,808. Palco Chemical Corp., Charlestown, Boston, Mass. Filed Dec. 1, 1952.

Palco

For Sprayable, Liquid Chemical Preparation for Renovating and Restoring the Color of Suede Shoes, Bags, Belts, and Gloves.
Claims use since May 26, 1952.

Ser. No. 639,079. The River Plate Corporation, New York, N. Y. Filed Dec. 5, 1952.

RIVOTAN

Applicant claims ownership of Registration No. 396,690.
For Blend of Tanning Extracts.
Claims use since Aug. 12, 1952.

Ser. No. 639,401. Woodall Industries Incorporated, Detroit, Mich. Filed Dec. 12, 1952.

FORMADALL

For Thermosetting Resin Compound.
Claims use since April 1950.

Ser. No. 640,657. R. T. Vanderbilt Company, Inc., New York, N. Y. Filed Jan. 12, 1953.

Vanfabs

For Water Repellant Finish to Fabrics.
Claims use since Dec. 23, 1952.

Ser. No. 641,550. General Dyestuff Corporation, New York, N. Y. Filed Jan. 30, 1953.

LEOTAN

For Vinyl Ether Copolymers Used To Impart Permanent Body and Fullness in the Tanning and Conditioning of Leather.
Claims use since Mar. 27, 1952.

Ser. No. 641,732. Johns-Manville Corporation, New York, N. Y. Filed Feb. 4, 1953.

CELKATE

For Synthetic Magnesium Silicates.
Claims use since Dec. 4, 1952.

Ser. No. 641,841. International Salt Company, Scranton, Pa. Filed Feb. 6, 1953.

INHIBIUM

For Ingredient of a Chemical Preparation Consisting of Complex Polyphosphate of Closely Controlled Composition and Other Materials of Specific Quantities Which Acts as a Corrosion Inhibitor.
Claims use since May 15, 1952.

Ser. No. 642,012. Ciba Limited, Basel, Switzerland. Filed Feb. 10, 1953.

COPRANTEX

Applicant claims ownership of Swiss Registration No. 132,536, dated Feb. 24, 1950; and United States Registrations Nos. 367,603 and 521,017.
For Coal Tar Colors; Chemical Products for Use as Textile Auxiliary Agents.

Ser. No. 643,129. R. T. Vanderbilt Company, Inc., New York, N. Y. Filed Mar. 4, 1953.

Vansil

For Silicate Material Used as a Pigment in Paint, Paper, and Rubber Products.
Claims use since Feb. 1, 1953.

Ser. No. 643,312. Foster Grant Co., Inc., Leominster, Mass. Filed Mar. 9, 1953.

FOSTARENE

For Molding Powders and Compounds of Plastic Material.
Claims use since on or about Feb. 19, 1953.

Ser. No. 645,105. Joseph L. Campbell, Aubrey H. Osmond, and Gordon C. Hutchinson, Butler, Pa. Filed Apr. 13, 1953.

WASHOIL

For Particular Liquid Composition for the Treatment of Fabrics, To Prevent Bacteria Growth; To Prevent Dissemination of Dust and Lint, and To Prevent or Eliminate Static Electricity.
Claims use since Mar. 18, 1953.

Ser. No. 645,686. G. H. Wood and Company Limited, Etobicoke and Toronto, Ontario, Canada. Filed Apr. 21, 1953.

'XTEND

For Finish and Rinse for Textile Fibres.
Claims use since Mar. 28, 1953.

Ser. No. 645,938. Virginia-Carolina Chemical Corporation, Richmond, Va. Filed Apr. 24, 1953.

V-C CEL

The drawing is lined for red. Applicant claims ownership of Registrations Nos. 348,486 and 348,487.
For Water Softener.
Claims use since Aug. 7, 1952.

Ser. No. 647,443. The Quaker Oats Company, Chicago, Ill. Filed May 21, 1953.

QO

Applicant claims ownership of Registration No. 511,914.
For Furan Chemicals and Derivatives Thereof for General Use in the Industrial Arts.
Claims use since Mar. 6, 1947.

Ser. No. 647,657. Reliance Chemicals Corporation, Houston, Tex. Filed May 25, 1953.

Bionetic

For Preserved Micro-Organisms and Their Enzyme Systems for Use in Aerobic and Anaerobic Treatment of Sewage and Industrial Wastes.
Claims use since August 1952.

Ser. No. 647,668. Ultra Chemical Works Inc., Paterson, N. J. Filed May 25, 1953.

ULTRA Chemical WORKS

The words "Chemical Works" are disclaimed apart from the mark as shown on the drawing.

For Wetting Agents for Use in the Paper Industry; Foaming Agents; Cationic Finishes for Textiles; Emulsifying Agents; Resin Finishes for Textiles; Boil-Off Compounds for Silk and Rayon; Dulling Agents for Synthetic Textile Fibres; and Plasticizers.

Claims use since Nov. 1, 1948.

Ser. No. 647,852. Larvacide Products, Inc., New York, N. Y. Filed May 28, 1953.

BROMEX

For Soil Fumigants.

Claims use since on or about Mar. 23, 1953.

Ser. No. 647,853. Larvacide Products, Inc., New York, N. Y. Filed May 28, 1953.

LP

For Insecticides, Fungicides, Pesticides, and Soil Fumigants.

Claims use since on or about Mar. 31, 1953.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 639,070. National Fireworks Ordnance Corporation, West Hanover, Mass. Filed Dec. 5, 1952.

MOX

For Metallized High Explosives.

Claims use since July 22, 1951.

CLASS 10

FERTILIZERS

Ser. No. 639,998. International Minerals & Chemical Corporation, Chicago, Ill. Filed Dec. 24, 1952.

AC'CENT

For Fertilizers.

Claims use since Nov. 17, 1952.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 581,434. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed July 1, 1949.

SCOTCH-TOP

The word "Brand" is disclaimed apart from the mark as shown. No registration rights are sought in the word "Top," apart from the mark as shown. The accompanying drawing is lined to indicate the colors red and green. Those squares in the drawing lined to indicate black are actually a screen printing of green over red but give the appearance of black. The superimposed diagonal lines bisecting the green and screen printed squares are yellow in color. The superimposed diagonal lines bisecting the red and screen printed squares are green in color.

For Hard, Tough, Sprayable, Hydraulic Setting Plastic Surfacing Material for Interior and/or Exterior Walls of Buildings.

Claims use since at least as early as August 1948.

Ser. No. 622,466. Shoals American Steel Company, Inc., Sheffield and Muscle Shoals, Ala. Filed Dec. 13, 1951.

ASC

For Ornamental Iron Products—Namely, Stairs and Railings.

Claims use since Jan. 5, 1951.

Ser. No. 629,005. The Flintkote Company, New York, N. Y. Filed May 1, 1952.

FLINTEX

Applicant claims ownership of Registrations Nos. 36,828, 73,612, and others.

For Mastic Floor Surfacing Composition.

Claims use since December 1945.

Ser. No. 633,519. Union Allumettiere Société Anonyme, Brussels, Belgium. Filed Aug. 5, 1952.

UNALIT

Applicant claims ownership of Belgian Registration No. 54,185, dated May 28, 1951.

For Wood Fibre Hardboards.

Ser. No. 636,182. The H. I. Thompson Company, Los Angeles, Calif. Filed Oct. 4, 1952.

THOMPSOglas

Applicant disclaims the term "Glas" except when used in combination with "Thompso."

For Vibration Damping Materials of Batted Fiber Glass.

Claims use since July 11, 1952.

Ser. No. 636,636. Hayman Window Company, Denver, Colo. Filed Oct. 15, 1952.

Ventair

For Window Sashes and Frames.

Claims use since February 1946.

Ser. No. 640,930. Walter Gerlinger, Inc., Milwaukee, Wis. Filed Jan. 19, 1953.

B-G

For Preparation of Silica and Fire Clay Which Forms a Heat Resistant Lining in a Foundry Cupola.

Claims use since Jan. 10, 1950.

Ser. No. 644,665. Davidson Plywood and Lumber Co., Los Angeles, Calif. Filed Apr. 3, 1953.

PARQ-WALL

The applicant hereby disclaims the word "Wall" apart from the mark as shown. Applicant claims ownership of Registration No. 540,356.

For Prefabricated Plywood Wall and Ceiling Panels.

Claims use since on or about Mar. 1, 1952.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 627,269. Mullins Manufacturing Corporation, Salem and Warren, Ohio. Filed Mar. 29, 1952. (Sec. 2f.)

Youngstown Kitchens

Applicant claims ownership of Registrations Nos. 431,399, 436,317, and others.

For Stamped, Pressed, or Drawn Steel Sinks and Combined Dishwasher Sinks; and Stamped, Pressed, or Drawn Steel Sinks and Combined Dishwasher Sinks Having a Porcelain Enamel Coating Thereon.

Claims use since Nov. 26, 1945.

Ser. No. 634,490. Schacht Rubber Mfg. Co., Huntington, Ind. Filed Aug. 26, 1952.

VIVID COLORS OF DISTINCTION

No claim is herein made to the words "Colors of Distinction" apart from the mark as shown.

For Household and Plumbing Goods of Colored Rubber, to wit, Suction Sink Stoppers, Anti-Splashers for Spigots, Bath Spray Sets, Massage Shampoo Spray Sets, and Toilet Tank Balls.

Claims use since on or about Aug. 1, 1952.

Ser. No. 638,781. Snudhook Corporation, Dearborn, Mich. Filed Nov. 29, 1952.

SNUDHOOK

For Clamp Type Traction Bars or Lugs for Mounting on Vehicle Wheels.

Claims use since Oct. 29, 1952.

Ser. No. 641,074. Samuel Moore & Company, Mantua, Ohio. Filed Jan. 21, 1953.

POLY-COR

For Plastic and/or Metal Tubing Composed of a Single Tube or a Plurality of Tubes Encased or Housed in a Plastic Sheath for Transmission of Fluid.

Claims use since Aug. 15, 1952.

Ser. No. 641,075. Samuel Moore & Company, Mantua, Ohio. Filed Jan. 21, 1953.

METL-COR

For Plastic and/or Metal Tubing Composed of a Single Tube or a Plurality of Tubes Encased or Housed in a Plastic Sheath for Transmission of Fluid.

Claims use since Aug. 15, 1952.

Ser. No. 643,839. Hitachi Limited, Tokyo and Chiyoda-Ku, Tokyo, Japan. Filed Mar. 18, 1953.



Applicant claims ownership of Japanese Registration No. 52,523, dated May 14, 1912.

For Pipes, Parts of Pipes and Valves of Cast Iron, Wrought Iron, Malleable Iron, Brass, Bronze, Copper, Nickel, and Steel—Namely, Fabricated Pipe, Couplings, Unions, Nipples, Bushings, Sockets, Plugs, Flanges, Caps, Reducers, Railing Fittings, Elbows, T's, Crosses, Y Branches, Bends, Nuts, Extensions, Pipe Fittings for Connecting or Supporting Pipes, Plates, Hooks, Loops, Pipe Hangers, Valve Service Boxes, Handles, Valve Operating Hand Wheels, Brackets, Nozzles, Rings, Clamps, Saddles, Casing Heads, Well Points, Angle Valves, Globe Valves, Check Valves, Cross Valves, Gate Valves, Radiator Valves, Safety Valves, Y Valves, Reducing Valves, Regulating Valves, Foot Valves, Tank Valves, Blow-Off Valves, Hose Valves, Throttle Valves, Rock Drill Valves, Plug Cocks, Lubricated Plug Valves, and Back Pressure Valves.

Ser. No. 645,508. The Perolin Company, Inc., Dover, Del., and New York, N. Y. Filed Apr. 17, 1953.

FEED-O-MATIC

The word "Feed" is disclaimed apart from the mark.

For Apparatus Embodying Chemical Container, Pipe Connections, and Valves for Automatically Adding to Fluid Handling and Heat Transfer Systems Controlled Amounts of Materials for Cleansing, Conditioning, and Preserving Such Systems.

Claims use since July 10, 1939.

Ser. No. 645,842. Superior Tube Company, Norristown, Pa. Filed Apr. 23, 1953.

HYPOFLEX

For Metal Tubing.

Claims use since Feb. 25, 1953.

CLASS 15

OILS AND GREASES

Ser. No. 642,902. Quaker Chemical Products Corporation, Conshohocken, Pa. Filed Feb. 27, 1953.

QUAFORGE

For Lubricants for Use in Forging Operations and on Dies and Parts Being Forged.

Claims use since Feb. 5, 1953.

Ser. No. 642,903. Quaker Chemical Products Corporation, Conshohocken, Pa. Filed Feb. 27, 1953.

QUAKOTE

For Lubricants for Drawing, Stamping, Forming, and Rolling of Ferrous and Non-Ferrous Metals.

Claims use since Feb. 5, 1953.

Ser. No. 642,905. Quaker Chemical Products Corporation, Conshohocken, Pa. Filed Feb. 27, 1953.

QWERL

For Lubricants for Rolling and Forming of Ferrous and Non-Ferrous Metals.

Claims use since Feb. 5, 1953.

Ser. No. 644,136. Oil-Mate Corporation, Seattle, Wash. Filed Mar. 24, 1953.



Exclusive right to use or to register the word "Oil," other than as a part of the mark as a whole, is hereby disclaimed.

For Synthetic Hydrocarbon Lubricant Used as Additive to Lubricating Oils.

Claims use since Feb. 23, 1953.

Ser. No. 645,274. Vitene Manufacturing Company, Inc., New York, N. Y. Filed Apr. 14, 1953.

VYTRON

For Fluid Which Is a Coolant and Lubricant Soluble in Water and Is Applied as a Steam Onto Cutting and Grinding Tools During Their Operation.

Claims use since Apr. 22, 1952.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 648,456. Williams-Hayward Varnish Company, Summit, Ill. Filed June 8, 1953. (Sec. 2f.)

STANZWEAR

Applicant claims ownership of Registration No. 161,388.

For Ready Mixed Varnishes, Paints, and Enamels.

Claims use since Jan. 15, 1920.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 629,228. S. Heagan Bayles, New York, N. Y. Filed May 6, 1952.

Chloro-well

For Tablets for the Relief of Pain Due to Simple Headache or Minor Neuralgia Containing Chlorophyll.

Claims use since Mar. 13, 1952.

Ser. No. 629,316. Old 97 Manufacturing Company, also doing business as Old 97 Company, Tampa, Fla. Filed May 7, 1952.

97

Applicant claims ownership of Registration No. 357,751.

For Medicinal Preparation for Athlete's Foot and Ringworm.

Claims use since Jan. 1, 1951.

Ser. No. 630,510. Osco Chemical Company, Atlanta, Ga. Filed May 29, 1952.

FUNGASARC

For Composition Useful for the Control of Mange, Fungus, and Skin Conditions of Obscure External Origin.

Claims use since Aug. 8, 1950.

Ser. No. 631,677. Nion Corporation, Los Angeles, Calif. Filed June 24, 1952.

AQUASTRONE

For Sterile Suspension of Estrogenic Substances (Principally Estrone) From Natural Equine Sources for Parenteral Use.

Claims use since September 1946.

Ser. No. 633,758. Exema Products Company, also doing business as Exema-Lick Products Co., Bluefield, Va. Filed Aug. 12, 1952.

EXEMA-LICK



"Exema" is disclaimed apart from the mark as shown on the drawing.

For Medicated Ointment for the Treatment of Eczema.

Claims use since June 1, 1952.

Ser. No. 637,577. Eaton Laboratories Inc., Norwich, N. Y. Filed Nov. 4, 1952.

Furoxone

Applicant claims ownership of Registrations Nos. 403,279, 441,715, and others.

For Antibacterial Preparations.

Claims use since Oct. 8, 1952.

Ser. No. 642,811. Charles E. Frosst & Co., Montreal, Quebec, Canada. Filed Feb. 26, 1953.

ISOTAG

Priority under Sec. 44(d). Canadian application filed Aug. 29, 1952. Registration No. N. S. 43,107, dated Aug. 29, 1952.

For Radio-Active Pharmaceutical and Biological Substances for Diagnostic and/or Therapeutic Use.

Ser. No. 643,957. Dr. Hess & Clark, Inc., Ashland, Ohio. Filed Mar. 20, 1953.

PAN-A-MIN

Applicant claims ownership of Registration No. 266,208.

For Vitamin and Mineral Supplement for Poultry.

Claims use since Aug. 5, 1929.

Ser. No. 645,015. The Stuart Company, Pasadena, Calif. Filed Apr. 9, 1953.

Stuart
Theron

No claim is made herein to the word "Stuart" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 517,742, 565,522, and others.

For Vitamin Preparation.

Claims use since Mar. 18, 1953.

Ser. No. 648,119. Mathieson Chemical Corporation, New York, N. Y. Filed June 2, 1953.

HICOSITON

For Lipotropic Agent.

Claims use since Apr. 5, 1953.

Ser. No. 648,120. Mathieson Chemical Corporation, New York, N. Y. Filed June 2, 1953.

VERDIVITON

For Nutritive Stimulant.

Claims use since Mar. 23, 1953.

Ser. No. 648,457. The M. A. Wright Co., Brooklyn, N. Y. Filed June 8, 1953.

TREVS

For Tablets for Alleviating Distress of Travel Sickness.

Claims use since December 1952.

Ser. No. 648,613. Mathieson Chemical Corporation, New York, N. Y. Filed June 11, 1953.

NABLAN

For Antispasmodic Preparation.

Claims use since May 21, 1953.

Ser. No. 648,976. Abbott Laboratories, North Chicago, Ill. Filed June 18, 1953.

QUELICIN

For Medicinal Preparation for Parenteral Use as a Muscle Relaxant.

Claims use since Apr. 10, 1953.

Ser. No. 649,022. Schieffelin & Co., New York, N. Y. Filed June 18, 1953.

OLD HOUSE

For Tonic Stomachic.
Claims use since on or about May 25, 1934.

CLASS 19
VEHICLES

Ser. No. 605,274. The Trucktor Corporation, Newark, N. J. Filed Oct. 21, 1950.

TRUCKTOR

For Non-Driving Axles for Increasing the Load-Carrying Capacity of Trucks and Trailers.
Claims use since Nov. 19, 1929.

Ser. No. 611,484. Nymanbolagen Aktiebolag, Uppsala, Sweden. Filed Mar. 17, 1951.

Hermes

Applicant claims ownership of Swedish Registration No. 23,449, dated July 13, 1920.
For Bicycles and Structural Parts Thereof—Namely, Frames, Forks, Hubs, Spokes, and Nipples, Crank Parts, Stems, Handlebars, Grips, Pedals, Luggage Carriers, Mudguards, Chain Guards, Lamp Brackets, Brakes, Stands, Saddles, and Seat Pillars.

Ser. No. 611,485. Nymanbolagen Aktiebolag, Uppsala, Sweden. Filed Mar. 17, 1951.

SKANDIA

Applicant claims ownership of Swedish Registration No. 43,849, dated Aug. 6, 1934.
For Bicycles and Structural Parts Thereof—Namely, Frames, Forks, Hubs, Spokes, and Nipples, Crank Parts, Stems, Handlebars, Grips, Pedals, Luggage Carriers, Mudguards, Chain Guards, Lamp Brackets, Brakes, Stands, Saddles, and Seat Pillars.

Ser. No. 622,540. D. P. Harris Hardware & Manufacturing Co., Inc., New York, N. Y. Filed Dec. 15, 1951.

FLIGHT-WEIGHT

For Bicycles.
Claims use since Dec. 10, 1951.

Ser. No. 636,911. Horex-Columbus-Werk K.-G. Fritz Kleemann, Bad Homburg, Germany. Filed Sept. 5, 1952.



For Motorcycles.
Claims use since June 14, 1923, and use in commerce between foreign nations and the United States since Sept. 25, 1925.

Ser. No. 642,039. Medical Coaches Incorporated, New York, N. Y. Filed Feb. 10, 1953.

HEALTH-ON-WHEELS

For Self-Propelled or Truck-Semi-Trailer Combination Vans Which May Be Equipped With Surgical, Medical, and/or Dental Facilities.
Claims use since Mar. 26, 1952.

Ser. No. 647,357. Forest E. Johnson, doing business as Forest E. Johnson Boat Works, Miami, Fla. Filed May 20, 1953.

PROWLER

For Power Boats and Cruisers.
Claims use since 1940.

Ser. No. 648,686. Northwest Plastics, Inc., St. Paul, Minn. Filed June 12, 1953.

Nor-Craft

No registration rights are sought in the word "Craft" apart from the mark as a whole.
For Boats—Namely, Rowboats.
Claims use since at least as early as Apr. 6, 1953.

Ser. No. 650,776. The Calnevar Company, Los Angeles, Calif. Filed July 24, 1953.



For Wheel Discs.
Claims use since May 7, 1953.

CLASS 21
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 606,235. Ohmite Manufacturing Company, Chicago, Ill. Filed Nov. 10, 1950.

RITEOHM

For Electrical Circuit Control Elements—Namely, Resistors.
Claims use since late November 1937.

Ser. No. 623,922. Swivelier Company, Inc., New York, N. Y. Filed Jan. 22, 1952.

VOGUE-LITES

The word "Lites" is disclaimed, apart from its use in connection with the mark as shown in the drawing.
For Electrical Ceiling, Wall, and Floor Lamps, Each Having a Colored Reflector and an Arm, the Arm and Reflector Being Joined by a Swivel Unit Whereby the Reflector May Be Angularly Adjusted With Respect to Its Normal Axis, and Parts Thereof.
Claims use since Dec. 1, 1951.

Ser. No. 628,136. Richard H. Wann, Detroit, Mich. Filed Mar. 4, 1952.

HOSPIX
BEDSIDE TELEVISION

Applicant disclaims the words "Bedside Television" apart from the mark as shown on the drawing.
For Rental Television Receiving Sets.
Claims use since Jan. 11, 1952.

Ser. No. 628,371. Texlite, Incorporated, Dallas, Tex. Filed Apr. 19, 1952.

TEXLITE

For Electrically Lighted and Electrically Activated Signs of All Types, Including Signs Illuminated by Incandescent, Fluorescent, and/or Neon Lamps.
Claims use since on or about Dec. 1, 1930.

Ser. No. 631,923. The Etna Machine Company, Toledo, Ohio, assignor to Abbey Etna Company, Toledo, Ohio, a corporation of Ohio. Filed June 28, 1952.

ETNA

For Electrically Operated Tube Forming and Welding Machines Using Resistance Welding for the Seam Weldings.
Claims use since August 1901.

Ser. No. 636,683. Capcon, Inc., New York, N. Y. Filed Oct. 16, 1952.

CAPCON

For Electrical Condensers and Capacitors, and Electronic Filters Used With Radio and Television Circuits.
Claims use since January 1951.

Ser. No. 637,359. The Bristol Company, Waterbury, Conn. Filed Oct. 30, 1952.

SYNCROVERTER

For Electric Switches.
Claims use since June 16, 1950.

Ser. No. 637,656. The Hallicrafters Co., Chicago, Ill. Filed Nov. 5, 1952.

World-Wide

For Radio Receivers.
Claims use since Oct. 10, 1952.

Ser. No. 638,072. Electro-Voice, Incorporated, Buchanan, Mich. Filed Nov. 14, 1952.

CDP

For Loudspeaker.
Claims use since Aug. 28, 1952.

Ser. No. 639,400. Transistor Products, Inc., Boston, Mass. Filed Dec. 12, 1952.



For Transistors.
Claims use since Oct. 27, 1952.

Ser. No. 640,761. Servotrol Co., Chicago, Ill. Filed Jan. 14, 1953.

SERVOTROL

For Potentiometers, Each Consisting of a Resistance Element and an Adjustable Contact Movable Thereover.
Claims use since Oct. 29, 1952.

Ser. No. 643,469. Davidson Bros. Inc., Detroit, Mich. Filed Mar. 11, 1953.

Manor Crest

For Television Sets.
Claims use since Nov. 8, 1952.

Ser. No. 643,960. JFD Manufacturing Co. Inc., Brooklyn, N. Y. Filed Mar. 20, 1953.

JFD

For Television Antennae.
Claims use since Mar. 31, 1933.

Ser. No. 646,162. Phelps Dodge Copper Products Corporation, Dover, Del., and New York, N. Y. Filed Apr. 29, 1953.

THERMALEZE

For Magnet Wire, Bare and Insulated.
Claims use since on or about Apr. 15, 1950.

Ser. No. 646,421. R. J. Pagliuso, doing business as Pagliuso Engineering Company, Glendale, Calif. Filed May 4, 1953.

PAGCO

For Electrical Connectors.
Claims use since Jan. 19, 1953.

Ser. No. 646,793. Murex Limited, Rainham, Essex, England. Filed May 11, 1953.

SINCOMAX

Applicant claims ownership of British Registration No. 707,978, dated June 10, 1952.
For Magnets.

Ser. No. 647,055. Waverly Products, Inc., Kansas City, Mo. Filed May 14, 1953.

Magic Hostess

For Electrical Cooking Apparatus—Namely, an Infrared Boiler and Rotisserie.
Claims use since Sept. 5, 1951.

Ser. No. 648,151. Wes-Win Mfg. Co., Inc., El Monte, Calif. Filed June 2, 1953.

WES★WIN

For Electrical Fittings—Namely, Unions, Couplings, Nipples, Elbows, Ground Bushings, Fixture Studs, and Fixture Hangers.
Claims use since Feb. 2, 1953.

Ser. No. 648,225. Zenith Radio Corporation, Chicago, Ill. Filed June 3, 1953.

COBRA-MATIC

Applicant claims ownership of Registrations Nos. 537,853 and 537,854.
For Electrically Operated Talking Machines and Parts Thereof—Particularly Electrically Operated Record Playing and Record Changing Mechanisms for Talking Machines.
Claims use since June 1950.

Ser. No. 648,274. The Ace Co., Ocala, Fla. Filed June 5, 1953.

Alaco

For Electric Vacuum Cleaners.
Claims use since June 11, 1952.

Ser. No. 648,355. Belknap Hardware and Manufacturing Company, Louisville, Ky. Filed June 8, 1953.

BLUE GRASS

For Flashlight Batteries and Flashlights.
Claims use since 1933.

Ser. No. 648,392. Gould-National Batteries, Inc., St. Paul, Minn. Filed June 8, 1953.

MR. BIG

For Storage Batteries.
Claims use since Sept. 20, 1952.

Ser. No. 648,393. Gould-National Batteries, Inc., St. Paul, Minn. Filed June 8, 1953.

POLY-RED

For Storage Batteries.
Claims use since Feb. 25, 1952.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 614,968. Spread Eagle Manufacturing Company, Pella, Iowa. Filed June 8, 1951.

SPREAD EAGLE

For Fish Hooks.
Claims use since May 26, 1950.

Ser. No. 623,434. Supplee-Biddle-Steltz Company, Philadelphia, Pa. Filed Jan. 10, 1952.

BILLY RUTH TOYS

The portraits are those of the children of the president of the applicant. The word "Toys" is disclaimed.
For Children's Vehicles—Namely, Velocipedes, Bicycles, and Coaster Wagons; and Toy Sets—Namely, Paint and Coloring Sets and Sewing Kits.
Claims use since Dec. 3, 1951.

Ser. No. 624,233. David C. Haines, Salt Lake City, Utah. Filed Jan. 29, 1952.

CRAFT

The term "Craft" is disclaimed apart from the mark as shown.
For Educational Toy, Comprising Materials and Apparatus for Demonstrating the Structural Properties of Concrete as a Building Material.
Claims use since Dec. 1, 1951.

Ser. No. 625,684. Nicholas J. Medvedeff, Hanover, Mass. Filed Feb. 28, 1952.

MONOCOPTER

For Model Aircraft and Particularly for That Type of Model Aircraft Known as a Convertaplane.
Claims use since Dec. 3, 1951.

Ser. No. 634,717. Paule R. Villetorte, Setauket, N. Y. Filed Aug. 30, 1952.

RING-HI

The word "Ring" is disclaimed apart from the mark as shown.
For Ring Projecting Apparatus—Namely, a Toy Featuring Sticks Held in Criss-Cross Fashion by at Least Two Players With a Ring Placed Over the Sticks and Placed in Flight by Rapid Separation of the Sticks.
Claims use since Aug. 28, 1952.

Ser. No. 637,435. Ferne Haggen Glasgow, San Francisco, Calif. Filed Oct. 31, 1952.

A Pic-um Stic-um PICTURE STORY HG

The drawing is lined to indicate the color red. Applicant disclaims exclusive rights to the words "Picture Story" except when used as a part of the mark as shown.
For Children's Games in the Form of Package Containing Printed Stories and Pictures for Illustrating Same.
Claims use since Oct. 20, 1952.

Ser. No. 643,550. Jack Johnstone, doing business under the firm name and style of JJ Manufacturing Company, Los Angeles, Calif. Filed Mar. 12, 1953.

Fastrike

For Fish Hooks.
Claims use since Jan. 2, 1950.

Ser. No. 648,375. Julius R. Davidson, doing business as Kādā Manufacturing Company, Houston, Tex. Filed June 8, 1953.

KĀDĀ

For Fishing Tackle Boxes, and Parts Thereof.
Claims use since Aug. 15, 1952.

Ser. No. 650,060. Mari-Kay Creations, Elmhurst, Ill. Filed July 9, 1953.

Mari-Kay Creations

Applicant disclaims the term "Creations" apart from the mark as shown.
For Dolls and Doll Clothes.
Claims use since June 1, 1953.

Ser. No. 651,382. B. M. C. Manufacturing Corp., Binghamton, N. Y. Filed Aug. 5, 1953.

BMC

For Juvenile Wheeled Vehicles—Namely, Toy Automobiles, Toy Tractors, Tricycles and Bicycles, and Parts Thereof, for the Conveyance of Children.
Claims use since July 23, 1953.

Ser. No. 652,109. Dynaland Products, Inc., St. George, Utah. Filed Aug. 21, 1953.

DYNALAND

For Boxed Handicraft Sets Containing Packages of Differently Colored Sand and Equipment for Preparing and Extruding Respective Slurries of Sand in the Building of Three-Dimensional Objects.
Claims use since Dec. 1, 1952.

Ser. No. 652,371. Alabe Crafts, Inc., Cincinnati, Ohio. Filed Aug. 27, 1953.

SWAMI 'SPIRIT' SLATE

For Fortune Telling Game.
Claims use since Aug. 17, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 618,116. Herb J. Hawthorne, Inc., Houston, Tex. Filed Aug. 27, 1951.

BLUE DEMON

For Drilling Bits.
Claims use since Jan. 15, 1950.

Ser. No. 621,085. Nordberg Manufacturing Company, Milwaukee, Wis. Filed Nov. 9, 1951. (Sec. 2f.) CONCURRENT USE with Symons Brothers Company (user) for the area comprising the United States, except for the area made up of California, Washington, Oregon, Idaho, Arizona, Utah, and Nevada.

SYMONS

For Screening and Separating Equipment—Namely, Vibrating and Gyrating Screens and Grizzlies for Dry and Wet Sizing of Coal, Stone, Ores, Sand, and Gravel.
Claims use since June 2, 1931.

Ser. No. 646,964. Underwood Corporation, New York, N. Y. Filed May 13, 1953.

CORRESPONDENT

For Typewriters and Parts Thereof.
Claims use since at least as early as Mar. 5, 1953.

Ser. No. 647,765. The DoAll Company, Des Plaines, Ill. Filed May 27, 1953.

Demon

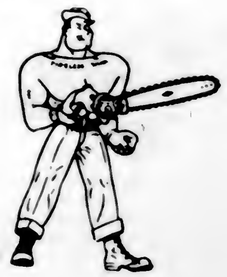
For Band Saw Blades in Bulk Length and Hack Saw Blades.
Claims use since Mar. 2, 1953.

Ser. No. 647,805. H. P. Preis Engraving Machine Co., Hillside, N. J. Filed May 27, 1953.

PANTO

For Engraving Machines and Markers and Parts Thereof.
Claims use since Mar. 13, 1952.

Ser. No. 648,063. Titan Chain Saws, Inc., Seattle, Wash. Filed June 1, 1953.



The representation of the chain saw is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 431,564 and 329,990.
For Chain Saws.
Claims use since September 1947.

Ser. No. 648,106. Jabsco Pump Company, Burbank, Calif. Filed June 2, 1953.

JABSCO PUMPS

The words "Cam-Flexed," "Neoprene Impeller," and "Pumps" are disclaimed apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 422,191.
For Self Priming Pumps.
Claims use since Jan. 12, 1953.

Ser. No. 648,422. Outboard, Marine & Manufacturing Company, Waukegan, Ill. Filed June 8, 1953.

EXCALIBUR

For Outboard Motors.
Claims use since Mar. 31, 1953.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 630,864. Katharine Rose Kraft Ritter, Paris, France. Filed Apr. 29, 1952.

RINIDI

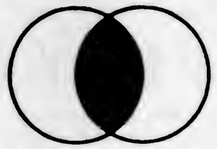
Priority under Sec. 44(d). French Registration No. 415,478, dated Oct. 31, 1951.
For Rulers, Rulers Used for Calculations, Calculating Charts for Computing Conversion of Currencies.

Ser. No. 631,567. Polaroid Corporation, Cambridge, Mass. Filed June 21, 1952.

POLAROID

Applicant claims ownership of Registrations Nos. 337,404, 388,047, and others.
For Apparatus for Treating Photographic Materials—Namely, Camera Backs and Processing Boxes for Radiac Detecting Elements (Dosimeters); Holders for Photographic Materials—Namely, Holders for Radiac Detecting Elements (Dosimeters); Photographic Copying Apparatus—Namely, Apparatus Consisting of Electric Timer, Focus Indicator, Illumination Elements, and Platform Camera Mount, for Reproducing Documents and Like Materials; Photographic Lighting Equipment and Parts Thereof—Namely, Photographic Flash Guns; Photographic Filters and Lenses and Mounts Therefor; Photosensitive Elements and Film Units Containing Said Elements—Namely, X-Ray Film and Radiac Detecting Elements (Dosimeters); Television Corrector Plates; and Plastic Prisms.
Claims use since November 1935.

Ser. No. 631,572. Polaroid Corporation, Cambridge, Mass. Filed June 21, 1952.



Applicant claims ownership of Registrations Nos. 343,337, 398,918, and others.
For Apparatus for Treating Photographic Materials—Namely, Camera Backs and Processing Boxes for Radiac Detecting Elements (Dosimeters); Holders for Photographic materials—Namely, Holders for Radiac Detecting Elements (Dosimeters); Photographic Copying Apparatus—Namely, Apparatus, Consisting of Electric Timer, Focus Indicator, Illumination Elements, and Platform Camera Mount, for Reproducing Documents and Like Materials; Photographic Lighting Equipment and Parts Thereof—Namely, Photographic Flash Guns; Photographic Filters and Lenses and Mounts Therefor; Photosensitive Elements and Film Units Containing Said Elements—Namely, X-Ray Film and Radiac Detecting Elements (Dosimeters); Television Corrector Plates; and Plastic Prisms.
Claims use since October 1936.

Ser. No. 634,768. United States Safety Service Co., Kansas City, Mo. Filed Sept. 12, 1952. (Sec. 2f.)

SAF-I-FLEX

Applicant disclaims the term "Flex" apart from the mark as shown. Applicant claims ownership of Registration No. 557,604.
For Goggles.
Claims use since Sept. 8, 1952, as to the mark shown; and since at least as early as 1942 as to the mark "Saf-I."

Ser. No. 637,446. International Mutoscope Corporation, Long Island City, N. Y. Filed Oct. 31, 1952.

MUTOFILM

For Photographic Film in Strip Form.
Claims use since Feb. 4, 1952.

Ser. No. 645,276. Weil & Huebener, Washington, D. C. Filed Apr. 14, 1953.

LUX *Pac-Kaway*

No claim is made to the word "Pac-Kaway" apart from the mark shown in the drawing.
For Microscopes.
Claims use since Jan. 31, 1953.

Ser. No. 645,940. Airequipt Manufacturing Co., Inc., New Rochelle, N. Y. Filed Apr. 27, 1953.

Airequipt

For Photographic Equipment and Accessories—Namely, Enlarging Easels, Contact Printers, Automatic Slide Changers for Slide Projectors, Photographic Slide Viewers, Slide Filing and Storage Containers, and Carrying Cases for Storage and Transportation of These Products.
Claims use since Feb. 19, 1943.

Ser. No. 646,082. Strandberg Engineering Laboratories, Greensboro, N. C. Filed Apr. 28, 1953.

The Moisture Monitor

The word "Moisture" is disclaimed apart from the mark as shown.
For Electronic Instrument for Testing the Moisture Content of Textiles and the Like.
Claims use since May 13, 1952.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 642,758. Alexander Kower, doing business as Alexander Kower Co., Chicago, Ill. Filed Feb. 25, 1953.

BENDEX

For Watches.
Claims use since Dec. 19, 1952.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 631,080. The Wardens and Commonalty of the Mystery of Goldsmiths of the City of London, London, England. Filed June 11, 1952. CERTIFICATION MARK.



Applicant claims ownership of British Registration No. 401,935, dated Mar. 16, 1920.
For Gold and Silver Wares Manufactured in the United Kingdom and Sent to the Office of Us, the Applicants, To Be Assayed and Hall-Marked.
Claims use since about 1300; and in its present form since 1821; and in commerce between Great Britain and the United States since 1821.

Ser. No. 634,084. Hallmark Ring Corporation, Chicago, Ill. Filed Aug. 18, 1952.

STAR OF GLORY

For Ladies' and Men's Diamond Rings, Wedding Stone Rings, Stone Rings, and Diamonds.
Claims use since May 1951.

Ser. No. 645,205. Trabert and Hoeffer, Inc., New York, N. Y. Filed Apr. 13, 1953.

MY WORLD

For Costume Jewelry—Namely, Charms for Bracelets and the Like.
Claims use since Dec. 23, 1952.

Ser. No. 645,957. Courtly Jewels, Inc., New York, N. Y. Filed Apr. 27, 1953.

RIVOLI Jewels

The word "Jewels" is disclaimed apart from the mark as shown.
For Necklaces, Bracelets, Earrings, Brooches, and Pin Clips.
Claims use since Dec. 23, 1952.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 624,915. The Bauer Bros. Company, Springfield, Ohio. Filed Jan. 15, 1952. (Sec. 2f.)

Bauer

For Nut Coolers.
Claims use since on or about Jan. 1, 1934.

Ser. No. 632,977. Bruner Corporation, Milwaukee, Wis. Filed July 24, 1952.

Dial-o-Matic

The word "Dial" is disclaimed apart from the mark as shown.
For Softeners of the Ion Exchange Type and Combination Water Softener and Iron Remover Units (of the Ion Exchange Type).
Claims use since Apr. 3, 1951.

CLASS 33

GLASSWARE

Ser. No. 598,542. Permahead Glass Corporation, New York and Brooklyn, N. Y. Filed June 3, 1950.

PERMAHEAD

The representation of the goods is disclaimed.
For Drinking Glasses.
Claims use since on or about Oct. 1, 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 624,288. New Era Fox, Inc., Pontiac, Mich. Filed Jan. 30, 1952.

ECONOHEAT

For Heat Conserving Attachment for Connection With Exhaust Flue of Furnaces and Heaters.
Claims use since June 1, 1950.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 613,801. Bell & Gossett Company, Morton Grove, Ill. Filed May 12, 1951.

REMITE

For Machinery Packing—Namely, a Ceramic Seating Ring Characterized by Extreme Hardness and Having a Seal Face for Sealing Coaction With Another Part of a Sealing Assembly Surrounding and Coacting With a Rotatable Shaft.
Claims use since Mar. 26, 1951.

Ser. No. 633,599. Southern Belting Company, Atlanta, Ga. Filed Aug. 7, 1952.

SOUTHERN BELTING CO. FIRST PUROK QUALITY ATLANTA, GEORGIA

Applicant disclaims the words "Southern Belting Co.," "First Quality," and "Atlanta, Georgia" except in association with the mark as shown.
For Leather Belting for Textile Machinery.
Claims use since July 17, 1952.

Ser. No. 642,813. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed Feb. 26, 1953. (Sec. 2f.)

GRIPTOP

For Conveyor Belts.
Claims use since January 1936.

Ser. No. 646,068. Gordy Tire Company, Atlanta, Ga. Filed Apr. 28, 1953.



The drawing is lined for green and yellow. No claim is made to the representation of an automobile tire or to the word "Tread" or the name "Gordy" apart from the mark as shown.
For Recapped Automobile Tires.
Claims use since on or about Jan. 1, 1953.

Ser. No. 647,479. The Dayton Rubber Company, Dayton, Ohio. Filed May 22, 1953.

Commuter

For Rubber Vehicle Tires and Tubes.
Claims use since May 19, 1953.

Ser. No. 648,391. Goodall Rubber Company, Trenton, N. J. Filed June 8, 1953.

"SKY-KLEET"

For Conveyor Belts.
Claims use since Sept. 10, 1952.

Ser. No. 649,391. Seiberling Rubber Company, Barberton, Ohio. Filed June 25, 1953.

COMMUTER

For Pneumatic Rubber Tires.
Claims use since Apr. 23, 1953.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 642,418. Prof. Romeo Orsi S. R. L., Milan, Italy. Filed Feb. 18, 1953. (Sec. 2f.)

ORSI

For Musical Instruments—Namely, Saxaphones, Trumpets, Cornets, Alto, Baritone, and Bass Horns, French Horns, English Horns, Sousaphones, Trombones, Piccolos, Flutes, Clarinets, Oboes, and Bassoons.
Claims use since in the year 1825; and first used in commerce between foreign nations and the United States in 1910.

Ser. No. 644,862. Martha Neumark, Bayside, N. Y. Filed Apr. 7, 1953.

KEYSONIC

For Portable Piano-Type Instruments With Hammer-Actuated Sound Mechanisms.
Claims use since Feb. 2, 1953.

Ser. No. 645,835. Myles J. Rosenthal, doing business as Baroque Record, New York, N. Y. Filed Apr. 23, 1953.

Baroque

For Grooved Phonograph Records.
Claims use since Jan. 2, 1953.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 639,290. Scalamandré Silks, Inc., Long Island City, N. Y. Filed Dec. 10, 1952.

LANARA

For Textile Fabrics in the Piece Made Wholly of Wool and in Substantial Part of Wool Combined With Synthetic Fibers.
Claims use since Sept. 10, 1951.

Ser. No. 641,816. Waite Carpet Company, Oshkosh, Wis. Filed Feb. 5, 1953. (Sec. 2f.)

Waite

The mark comprises the word "Waite." Applicant claims ownership of Registrations Nos. 204,524, 211,062, and others.
For Textile Rugs and Carpets.
Claims use since Aug. 1, 1909.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 629,271. Chirurgie Union, Genossenschaft der Chirurgie-Mechaniker, E. G. m. b. H., Tuttlingen/Wurttemberg, Germany, now by change of name Medicon Chirurgiemechaniker-genossenschaft eingetragene Genossenschaft mit beschränkter Haftpflicht. Filed Dec. 22, 1951.

MEDICON

Applicant claims ownership of German Registration No. 604,460, dated Jan. 25, 1951.

For Medical and Dental Instruments and Equipment—Namely, Retractors, Scissors, Curettes, Adenotomes, Knives, Saws, Forceps, Trocars, Bonedrills, Plaster Shears, Bronchoscopes, Esophagoscopes, Laryngoscopes, Electroscopes, Needle Holders, Chisels, Gouges, Needles, Trephines, Wound Clips, Biopsy Forceps, Towel Forceps, Dissecting Forceps, Dressing Forceps, Artery Forceps, Bougies, Dilators, Probes, Hooks, Scoops, Head Lamps, Masks, Mouth Mirrors, Mallets, Mouth Gags, Clamps, Snares, Specula, Otoscopes, Pelvimeters, Raspatories, Rongeurs, Scalpels, Extracting Forceps, Pliers, Root Elevators, Gum Scissors, Crown Scissors, Scissors for Dental Surgery, Gum Lancets, Explorers, Scalers, Excavators, Spatula.

Ser. No. 635,218. County Surgical Co., Inc., Brooklyn, N. Y. Filed Sept. 13, 1952.

Ballistograph

For Medical and Surgical Appliance for Measuring the Momentum of the Blood Thrust Out From the Heart at Each Beat; for Testing Cardiac Function; and Measuring of Circulatory Events in the Body.

Claims use since on or about Oct. 15, 1951.

Ser. No. 636,994. Miljam Plastic Instrument Manufacturing Co., Inc., Washington, D. C., now by change of name Mil-Jam Instrument Corporation. Filed Oct. 22, 1952.

ARTRINGE

The representation of a syringe is disclaimed, apart from the mark as shown.

For Hypodermic Syringes.

Claims use since Aug. 11, 1952.

Ser. No. 637,465. Stephenson Corporation, Red Bank, N. J. Filed Oct. 31, 1952.

MINUTEMAN

For Resuscitators.

Claims use since July 1, 1952.

Ser. No. 640,786. Cuxson, Gerrard & Company Limited, Worcestershire and Oldbury, Worcestershire, England. Filed Jan. 15, 1953.

CARNATION

For Corn, Callous, and Similar Plasters.

Claims use since July 4, 1923, in Great Britain; and since July 11, 1952, in commerce between Great Britain and the United States.

Ser. No. 642,568. Reliance Dental Mfg. Co., Chicago, Ill. Filed Feb. 20, 1953.

Dura Kore

The word "Kore" is disclaimed apart from the mark as shown.

For Dental Product—Namely, a Cementitious Material, Comprising a Powder and Liquid To Be Combined to Form a Product for Use as a Posterior Filling Material and as a Base Under Acrylic Fillings and Anterior Teeth.

Claims use since on or about Jan. 19, 1953.

Ser. No. 642,787. Viking Manufacturing Co., Inc., Stratford, Conn. Filed Feb. 25, 1953.

VIKING

For Infra-Red Heat Lamps for Therapeutic Use.

Claims use since Dec. 24, 1952.

Ser. No. 642,874. Dental Manufacturing Paschwitz & Company, Berlin and Berlin-Lichterfelde, Germany. Filed Feb. 27, 1953.

Imperator

Applicant claims ownership of German Registration No. 617,463, dated Dec. 11, 1950.

For Dental Apparatus—Namely, Grinding, Drilling, Milling, and Polishing Apparatus.

Ser. No. 648,434. Schueler & Co., New York, N. Y. Filed June 8, 1953.

CHIRON

For Surgical Scissors, Intestinal Forceps, Tissue Forceps, Tooth Extraction Forceps, Dental Mirrors, Surgical Mirrors, Artery Forceps, Surgical and Dental Knives, Probes, Needles and Needle Holders, Dilators, Dental Amalgam Instruments, Surgical and Dental Chisels, Bone Operation Instruments, Surgical and Dental Scrapers, Spatula.

Claims use since Mar. 6, 1953.

Ser. No. 648,555. E. A. Myers & Sons, Inc., Mount Lebanon, Pittsburgh, Pa. Filed June 10, 1953.

RADIOGEAR

Applicant claims ownership of Registration No. 300,563.

For Electrically Operable Hearing Aids for Aiding the Hearing of Persons With Impaired Hearing.

Claims use since Apr. 1, 1930, as a whole; and since July 29, 1926, for the word "Radiogear."

Ser. No. 648,904. Air Reduction Company, Incorporated, New York, N. Y. Filed June 17, 1953.

K-S

For Disposable Therapy and Aviation Masks.

Claims use since July 1951.

Ser. No. 648,959. Octavio Pando y Ruiz, Havana, Cuba. Filed June 17, 1953.

PANDO

Applicant claims ownership of Cuban Registration No. 84,778, dated Feb. 27, 1952.

For Wax for Dental Purposes.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 582,806. Thomas J. Webb Company, Chicago, Ill. Filed Aug. 1, 1949. (Sec. 2f.)

Webb's

Applicant claims ownership of Registrations Nos. 44,411, 183,955, and 212,566.

For Coffee.

Claims use since May 1923.

Ser. No. 582,807. Thomas J. Webb Company, Chicago, Ill. Filed Aug. 1, 1949. (Sec. 2f.)

by Webb

Applicant claims ownership of Registrations Nos. 44,411, 183,955, and 212,566.

For Coffee and Tea.

Claims use since May 1940.

Ser. No. 588,941. Davis Bros. Fisheries Co., Inc., Gloucester, Mass. Filed Dec. 7, 1949.

FRIDAY DOGS

For Prepared Fish in the Form of Sausages.

Claims use since on or about Nov. 4, 1949.

Ser. No. 604,458. Joseph Vaccarino, doing business as Sole D'Italia Wholesale Grocery, Baltimore, Md. Filed Oct. 4, 1950.

SOLE D'ITALIA

No claim is made to the word "Italia" apart from the mark as shown. The translation of the notation "Sole D'Italia" is "Sun of Italy." Applicant claims ownership of Registration No. 386,928.

For Canned Foods—Namely, Tomato Paste, Tomatoes Plain, Tomatoes With Puree, Ripe Olives, Chick Peas, Tuna Fish in Pure Olive Oil, Tomato Puree, Tomato Paste With Basil Leaf, Concentrated Tomato Paste With Basil Leaf.

Claims use since July 1946.

Ser. No. 615,096. Edward C. Palmer, St. Louis, Mo. Filed Apr. 28, 1951. (Sec. 2f.)

CARDINAL
BRAND



SPECIALLY PREPARED
WILD BIRD FOOD

The drawing is lined for the color red.

For Wild Bird Food—Namely, a Select Mixture of Nourishing Seeds, Grains, and Nut Meats.

Claims use since Jan. 2, 1940.

Ser. No. 616,373. Fearn Foods Inc., Franklin Park, Ill. Filed July 12, 1951. (Sec. 2f as to "Fearn's.")

Fearn's

Applicant claims ownership of Registrations Nos. 513,011 and 553,321.

For Canned Soups and Soup Bases in Paste Form and Canned Soup Concentrates; Food Seasoning for Meats, Fish, Soups, Gravies, Sauces, Salads, Etc., in Powder, Liquid, and Paste Forms; Chop Suey Sauce; and Food Flavorings in Powder, Liquid, and Paste Forms.

Claims use since Mar. 21, 1951, in the form shown; and since August 1934 as to "Fearn's."

Ser. No. 616,850. First National Pickle Products, Brooklyn, N. Y. Filed July 24, 1951.



The drawing is lined for red. However, no claim is made to color. Applicant disclaims exclusive use of the head of cabbage except as illustrated in connection with the mark.

For Visible Container Packaged Fresh Sauerkraut.

Claims use since Oct. 26, 1949.

Ser. No. 618,243. Red Bird Farms, Littleton, Colo. Filed Aug. 30, 1951.



Applicant disclaims the words "Fresh Fryers" and the words "Red Bird" apart from the mark as shown in the drawing.

For Dressed Poultry.

Claims use since on or about Aug. 22, 1951.

Ser. No. 618,842. Cherrin Bros. Company, Detroit, Mich. Filed Sept. 15, 1951. (Sec. 2f.)



The word "Sweet" is disclaimed apart from the mark as shown.

For Candy.

Claims use since Jan. 2, 1944.

Ser. No. 619,223. Paolo Alonge, Inc., New York, N. Y. Filed Sept. 26, 1951.



The English translation of the word "Campagnola" is "Country Girl," and the picture of the woman shown in the drawing is fanciful. The representation of tomatoes shown in the drawing is disclaimed apart from the mark as a whole.

For Canned Tomato Products—Namely, Tomato Paste, Tomato Puree, and Peeled Tomatoes Italian Style.

Claims use since in the year 1922.

Ser. No. 623,194. Joseph K. C. Kim, Honolulu, Oahu, Territory of Hawaii. Filed Jan. 4, 1952.



The words "Kim" and "Chee" are Korean and translated into English mean, respectively, "Pickled" and "Vegetable." No claim is made to the words "Kim Chee" apart from the mark in its entirety.

For Canned Pickled Cabbages and Turnips

Claims use since June 1, 1938.

Ser. No. 627,953. Libby, McNeill & Libby, Chicago, Ill. Filed Apr. 11, 1952.

Headliner

Applicant claims ownership of Registration No. 296,676.

For Livestock Feed Consisting of Dried Citrus Pulp.

Claims use since Apr. 1, 1950.

Ser. No. 628,551. Orringer Pickle Company, New Bern, N. C. Filed Apr. 23, 1952.

CAROLINA MAID



The picture of the lady used in connection with the words "Carolina Maid" is purely fanciful.

For Relishes and Pickles—Namely, Hot Barbecue Relish, Dill Pickles, Kosher Style Dill Pickles, Sweet Pickles, Sweet Relish, Sweet Mixed Pickles, Sweet Ghergins, Sour Pickles, Sweet Pickle Chips, Sweet Pickle Splits, Sweet Pepper Relish; and Sweet Pickled Onions.

Claims use since 1929.

Ser. No. 629,296. Fernest Joseph Le Blanc, doing business as Tasty-Tempt Seafood Products Co., Delcambre, La. Filed May 7, 1952.

Tasty-Tempt

No claim is made to the exclusive right to use the word "Tasty" apart from the mark as shown in the drawing.

For Frozen Fresh and Barbecued Shrimp and Frozen Fresh Dressed and Barbecued Crabs.

Claims use since Mar. 15, 1940.

Ser. No. 632,410. Armstrong Creamery Co., Wichita, Kans. Filed July 11, 1952.

CLOVER GOLD

For Ice Cream.

Claims use since on or about May 15, 1934.

Ser. No. 632,858. Treesweet Products Co., Santa Ana, Calif. Filed July 21, 1952. (Sec. 2f.)

TreeSweet

Applicant claims ownership of Registrations Nos. 310,977, 333,526, and others.

For Canned Frozen Citrus Fruit Concentrates.

Claims use since July 27, 1933.

Ser. No. 635,173. C and C Produce, Inc., Wilder, Idaho. Filed Sept. 12, 1952.



For Fresh Deciduous Fruits and Fresh Vegetables.

Claims use since Aug. 8, 1952.

Ser. No. 635,502. Weston Biscuit Company, Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Filed Sept. 19, 1952.

protecto-tray

The word "Tray" is disclaimed apart from the mark shown.

For Cakes, Cookies, and Crackers.

Claims use since Aug. 5, 1952.

Ser. No. 638,509. Plankinton Packing Co., Milwaukee, Wis., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois. Filed Dec. 3, 1952. (Sec. 2f as to "Plankinton's.")

Plankinton's

GLOBE

Applicant claims ownership of Registration No. 111,968.

For Meat Products—Namely, Sausage, Including, Braunschweiger Liver Sausage, Yachtswurst, Bologna, Liver Sausage, Summer Sausage, Bratwurst, Thuringer, Pork Sausage, Wieners, Salami, Leona, Minced Luncheon Specialty, Cooked Specialty, and Polish Sausage, Smoked Beef Tongue, Jellied Pot Roasted Beef, Jellied Cooked Tongue, Head Cheese, Veal Roll, Carcasses and Portions of Carcasses of Beef, Veal, and Lamb, Dried Beef, Lard, Canadian Style Bacon, Smoked Pork Shoulder Picnic, Bacon, Canned Ham, Smoked Ham, and Cooked Meat Loaf.

Claims use since about 1894.

Ser. No. 639,697. Golden Citrus Juices, Inc., Fullerton, Calif. Filed Dec. 18, 1952.

TUBA CADO

For Fresh Frozen Avocado Spread.

Claims use since Feb. 26, 1952.

Ser. No. 640,262. Delmar Products Company, Cincinnati, Ohio. Filed Jan. 2, 1953.

SUNNYBROOK

For Oleomargarine.

Claims use since Oct. 10, 1952.

Ser. No. 640,515. Norman W. Hill, doing business as M. J. Laughery Company, Pittsburgh, Pa. Filed Jan. 8, 1953.



For Tea, Coffee, Vinegar, Mustard, Catsup, Mayonnaise, Salad Dressings, Sauces for Meat, Pickle Relishes, Spices, Pickles, Olives, Table Salt, Cheese, Peanut Butter, Jellies, Food Flavor Extracts and Syrups for Food Purposes, Chopped Nuts, Shelled Whole Nuts (Salted and Unsalted), Food Colorings, Cornstarch for Food Purposes, Cake Mixes, Dried Prepared Pudding Mixes, Canned Fruits, Canned Vegetables Other Than Tomatoes, Dehydrated Vegetables, Canned Fish, Canned Soups, Canned Soup Concentrates, Spaghetti Sauce Without Meat, Spaghetti Sauce With Meat, and Canned Pork and Beans.

Claims use since January 1942.

Ser. No. 641,209. Safeway Stores, Incorporated, Oakland, Calif. Filed Jan. 23, 1953.

Scotch Treat

For Frozen Berries and Frozen Vegetables.
Claims use since May 13, 1952.

Ser. No. 641,808. Strohmeyer & Arpe Company, New York, N. Y. Filed Feb. 5, 1953.

MARIE ELISABETH

Applicant claims ownership of Registration No. 69,365.
For Filet of Anchovies, Anchovy Paste, Bonita, Crabmeat, Lobster, Filet of Mackerel, Olives, Olive Oil, Onions, Peppers, Pickles, Tomatoes, and Tuna, All Canned or Bottled.
Claims use since Jan. 12, 1953.

Ser. No. 644,038. Alex Jackson, doing business under the firm name and style of Lakewood Poultry Farm, Duluth, Minn. Filed Mar. 23, 1953.

LAKEWOOD

For Fresh Eggs and Frozen Chickens.
Claims use since November 1926.

Ser. No. 645,688. Allied Mills, Inc., Chicago, Ill. Filed Apr. 22, 1953.

T.C."JR"

For Pig and Hog Feed.
Claims use since Mar. 16, 1953.

Ser. No. 645,790. Food Fair Stores, Inc., Philadelphia, Pa. Filed Apr. 23, 1953.

Country Fair

Applicant claims ownership of Registration No. 539,192.
For Cheese.
Claims use since July 3, 1952.

Ser. No. 647,320. Southern States Cooperative, Incorporated, Richmond, Va. Filed May 19, 1953.

DARI-FLO

For Stock Feed for Cattle.
Claims use since May 11, 1953.

Ser. No. 647,650. Pacific Reefer Fisheries, Tacoma, Wash. Filed May 25, 1953.

Sunny Time

For Canned Fish.
Claims use since Apr. 29, 1953.

Ser. No. 647,762. Virgie A. Claeys, doing business as J. C. Claeys Candy Company, South Bend, Ind. Filed May 27, 1953.

CRAZY BAR
IT'S HALF NUTS

The words "Bar" and "It's Half Nuts" are disclaimed apart from the mark as shown.
For Candy Bars.
Claims use since Apr. 1, 1953.

Ser. No. 648,336. Steffen Dairy Foods Company, Inc., Wichita, Kans. Filed June 5, 1953.

TRIM

Applicant claims ownership of Registrations Nos. 550,505 and 568,268.
For Low Fat Content Fluid Milk.
Claims use since Feb. 2, 1953.

Ser. No. 648,367. Central Soya Company, Inc., Fort Wayne, Ind. Filed June 8, 1953.

Dee - Tee

For Meal Used in the Feeding of Livestock and Poultry.
Claims use since Feb. 9, 1951.

Ser. No. 648,779. Norda Essential Oil & Chemical Company, Inc., New York, N. Y. Filed June 15, 1953.

Cavira

For Concentrated Orange, Lemon, and Lime Juices.
Claims use since Mar. 10, 1953.

Ser. No. 649,865. The House of Bauer, doing business as Bauer's, Lincoln, Nebr. Filed July 6, 1953.

PECAN-HOBOES

The word "Pecan" is disclaimed apart from the mark shown in the drawing.
For Candy.
Claims use since May 1, 1953.

Ser. No. 650,284. Stanislaus Food Products Company, Modesto, Calif. Filed July 14, 1953.

SUZY BEL
BRAND
"RINGS TRUE"



No claim is made to the word "Brand" apart from the mark as shown. Applicant claims ownership of Registration No. 424,144.
For Canned Fruits, Canned Vegetables, Canned Fruit Cocktail, and Canned Tomato Paste.
Claims use since Apr. 17, 1945.

Ser. No. 650,770. Bedford Products, Inc., Dunkirk, N. Y. Filed July 24, 1953. (Sec. 2f.)

BEDFORD

Applicant claims ownership of Registration No. 378,677.
For Fruit Jellies, Fruit Preserves, Tomato Preserves, and Chili Sauce.
Claims use since March 1933.

Ser. No. 650,826. New England Provision Co., Inc., Boston, Mass. Filed July 24, 1953.



For Frankfurts.
Claims use since July 21, 1953.

Ser. No. 651,466. Piggly Wiggly Corporation, Jacksonville, Fla. Filed Aug. 6, 1953.

RIO OLEO

No claim is made to the word "Oleo" apart from the mark in its entirety. Applicant claims ownership of Registration No. 374,660.
For Oleomargarine.
Claims use since June 20, 1938.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 582,385. Paristyle Novelty Co. Inc., New York, N. Y., now by change of name Paristyle Beauty Salons, Inc. Filed Mar. 21, 1949.

PAR☆NO☆CO

For Permanent Waving Lotions, Solutions, and Tonics.
Claims use since on or about May 1, 1926.

Ser. No. 597,710. J. Strickland and Co., Memphis, Tenn. Filed May 18, 1950.

HAIR DRESSING

The words "Hair Dressing" are disclaimed apart from the mark shown.
For Hair Dressing.
Claims use since Apr. 25, 1950.

Ser. No. 613,307. Rilling Company, New York, N. Y., now by change of name The Rilling-Dermetics Company. Filed Apr. 28, 1951.

ENCORE

For Cold Wave Solutions.
Claims use since Apr. 5, 1951.

Ser. No. 634,792. The Lander Co. Inc., doing business as House of Lundborg, New York, N. Y. Filed Sept. 3, 1952.

LANOLIN LIFE CURL

The words "Lanolin" and "Curl" are disclaimed apart from the mark as shown.
For Liquid Hair Waving Preparations.
Claims use since Aug. 19, 1952.

Ser. No. 635,149. Olly Saenger, Inc., New York, N. Y. Filed Sept. 11, 1952.

Mask of Spring

The word "Mask" is disclaimed apart from the mark as shown.
For Cosmetic Facial Packs.
Claims use since Nov. 29, 1951.

Ser. No. 643,335. The Andrew Jergens Company, Cincinnati, Ohio. Filed Mar. 9, 1953.

tune

For Face Cream.
Claims use since Feb. 12, 1953.

Ser. No. 643,792. Rolley, Inc., doing business under the name and style of Rolley, San Francisco, Calif. Filed Mar. 17, 1953.

Sea AND Sky

For Suntan Cream.
Claims use since Feb. 16, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 631,538. Bropard Company, Rome, N. Y. Filed June 21, 1952.

idiot's delight

For Solid Material in a Glass Jar, Used for the Cleaning of Stainless-Steel Copper Pots and Pans.
Claims use since Aug. 1, 1951.

Ser. No. 635,415. Industrial Soap Company, St. Louis, Mo. Filed Sept. 18, 1952.

DUGENT

For Cleaning Composition Such as Detergents, Soaps, Etc., for General Household Cleaning Purposes.
Claims use since July 2, 1947.

Ser. No. 636,800. The Procter & Gamble Company, Cincinnati, Ohio. Filed Oct. 17, 1952.

Zest

Applicant claims ownership of Registrations Nos. 269,325, 514,204, and 533,129.
For Modified Synthetic Detergent in Bar Form Made Especially for Bath and Complexion Use.
Claims use since July 15, 1952.

Ser. No. 642,620. Chemical Electronic Engineering, Inc., Matawan, N. J. Filed Feb. 24, 1953.

HUSH!

For Preparation To Clean and Lubricate Television Tuners.
Claims use since June 1, 1952.

Ser. No. 645,318. The Andrew Jergens Company, Cincinnati, Ohio. Filed Apr. 15, 1953. (Sec. 2f as to "Woodbury.")



WOODBURY

Applicant claims ownership of Registrations Nos. 68,594, 101,612, and others.
For Bar Soap.
Claims use since August 1952 on the mark as shown; and since Jan. 1, 1891, as to "Woodbury."

Ser. No. 646,985. Botany Mills, Inc., Passaic, N. J. Filed May 14, 1953.

BOTANAIRE

Applicant claims ownership of Registrations Nos. 339,982, 376,810, and others.
For Shampoo.
Claims use since May 1, 1953.

Ser. No. 647,068. French and Gilbert, Incorporated, Winchester, Ky. Filed May 15, 1953. (Sec. 2f.)

"ABSORBS GRIME SAVES TIME"

Applicant claims ownership of Registration No. 514,323.
For Soap.
Claims use since Dec. 29, 1947.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 529,321. Vacuum Concrete, Inc., Philadelphia, Pa. Filed July 23, 1947. (Classified in Class 103.) (Sec. 2f.)
See this serial number in Class 103 for goods and mark.
Claims use since March 1936.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 529,321. Vacuum Concrete, Inc., Philadelphia, Pa. Filed July 23, 1947. (Sec. 2f.)

VACUUM CONCRETE

For Consulting and Supervisory Services Related to the Forming and Finishing of Concrete Bodies and Structures; Rental of Concrete Molding, Finishing, and Handling Equipment, and Training Services to Concrete Contractors and Operators in the Use of Said Equipment.
Claims use since March 1936.

Ser. No. 596,396. Crutcher-Rolfs-Cummings, Inc., Houston, Tex. Filed Apr. 27, 1950.

CRC

For Maintenance and Repair of Machines and Equipment Used in Bending, Beveling, Welding, Aligning, Cleaning, Prime Painting and Coating of Pipe, Applying Layers of Coating and Wrapping Material to Pipe To Prevent Corrosion; and for the Rental of Such Machines and Equipment.
Claims use since Nov. 15, 1933.

Ser. No. 646,986. Brisk Waterproofing Co., Inc., New York, N. Y., and elsewhere in the United States. Filed May 14, 1953.



For Renovation of Masonry Structures.
Claims use since Feb. 16, 1953.

Ser. No. 646,987. Brisk Waterproofing Co., Inc., New York, N. Y., and elsewhere in the United States. Filed May 14, 1953.



The words "Time Tested" are disclaimed apart from the mark as shown.
For Renovation of Masonry Structures.
Claims use since Feb. 16, 1953.

Ser. No. 647,048. P. Schlampp & Son, Incorporated, Minneapolis, Minn. Filed May 14, 1953.

Furrierize

For Cleaning of Fur or Fur Lined Wearing Apparel.
Claims use since May 1, 1938.

Ser. No. 647,598. Carol Art, Inc., New York, N. Y. Filed May 25, 1953.

Keepsake Process

The word "Process" is disclaimed when used apart from the mark.
For Cleaning of Wedding Gowns.
Claims use since Oct. 1, 1946.

CLASS 104

COMMUNICATION

Ser. No. 639,796. WJW, Inc., Cleveland, Ohio. Filed Dec. 19, 1952.

Woman's Page With Jane Stevens

"Jane Stevens" is the name of a fictitious individual.
For Radio Program Broadcasting Services.
Claims use since Sept. 15, 1947.

CLASS 106

MATERIAL TREATMENT

Ser. No. 645,683. United Merchants and Manufacturers, Inc., New York, N. Y. Filed Apr. 21, 1953.

FORTSET

Applicant claims ownership of Registrations Nos. 345,553, 505,467, and others.
For Finishing of Textile Fabrics or the Like, for Shrinkage Control and Dimensional Stability.
Claims use since on or about Mar. 30, 1953.

Ser. No. 648,215. United Merchants and Manufacturers, Inc., New York, N. Y. Filed June 3, 1953.

FORT DURA

Applicant claims ownership of Registrations Nos. 345,553, 505,467, and others.
For Finishing of Fabrics Made of or Containing Synthetic Fibers To Impart Crease Resistance Thereto.
Claims use since on or about Oct. 23, 1947.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 529,321. Vacuum Concrete, Inc., Philadelphia, Pa. Filed July 23, 1947. (Classified in Class 103.) (Sec. 2f.)
See this serial number in Class 103 for goods and mark.
Claims use since March 1936.

Ser. No. 636,818. Tasco Motion Picture Productions, Inc., Atlanta, Ga. Filed Oct. 17, 1952.

TASCO

For Producing Motion Pictures for Others.
Claims use since August 1946.

TRADE-MARK REGISTRATIONS GRANTED
ACT OF 1946, PRINCIPAL REGISTER

583,028. Beer of Legal Alcoholic Content. Bavarian Brewing Company, Inc., Covington, Ky.
Original filed, act of 1905, Mar. 28, 1947; amended to application under act of 1946, Principal Register, May 1, 1952, Serial No. 519,719. Published Sept. 1, 1953. Class 48.

583,029. Paper Napkins, Paper Towels, and Toilet Tissue. Crown Zellerbach Corporation, also doing business as National Paper Products Co. and Nata Products Company, San Francisco, Calif.
Filed Nov. 22, 1947, Serial No. 542,012. Published Apr. 22, 1952. Class 37.

583,030. Dog Food Consisting of Frozen Fresh Horse Meat, Cubed or Chopped. Edward F. Solomon, trading under the name Pride & Co., Philadelphia, Pa.
Filed Dec. 6, 1947, Serial No. 543,664. Published June 2, 1953. Class 46.

583,031. Rubber Soles and for Footwear Made of Rubber and of Combinations of Rubber and Fabric and of Rubber and Leather—Namely, Boots, Etc. Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind.
Filed Aug. 11, 1948, Serial No. 563,207. Published Aug. 25, 1953. Class 39.

583,032. Potato Chips. The Mann Company of Washington, Washington, D. C., now by merger Mann Potato Chip Company of Pennsylvania, a corporation of Delaware.
Filed Feb. 15, 1949, Serial No. 573,885. Published Feb. 20, 1951. Class 46.

583,033. Wheat Flour. Charles Banks Stout, doing business under the trade name of Dixie-Portland Flour Mills, Memphis, Tenn.
Filed Oct. 20, 1949, Serial No. 586,608. Published June 23, 1953. Class 46.

583,034. Mayonnaise, Fruit Preserves, and Jelly. Thomas J. Aycock, Jr., doing business under the name and style of Vita Foods, Jacksonville, Fla.
Filed Jan. 26, 1950, Serial No. 591,448. Published June 9, 1953. Class 46.

583,035. Liquid Phenolic Casting Resin. Rezolin, Inc., Los Angeles, Calif.
Filed Oct. 2, 1950, Serial No. 604,327. Published Aug. 25, 1953. Class 6.

583,036. Shoes for Women and Girls. Portland Footwear Co., Portland, Maine, assignor, by mesne assignments, to Textron, Incorporated, Providence, R. I., a corporation of Rhode Island.
Filed Oct. 17, 1950, Serial No. 605,051. Published May 22, 1951. Class 39.

583,037. Paint Products for Interior and Exterior Use—Namely, House Paint, Exterior Paste Paint, Barn Paint, Etc. De Soto Paint & Varnish Co., Memphis, Tenn.
Filed Oct. 31, 1950, Serial No. 605,644. Published Sept. 1, 1953. Class 16.

583,038. Root Beer Syrup for Making Carbonated Beverages and Bottled Root Beer. Lyons-Magnus, Inc., San Francisco, Calif.
Filed Nov. 29, 1950, Serial No. 607,086. Published Aug. 18, 1953. Class 45.

583,039. Sausage. The E. Kahn's Sons Company, Cincinnati, Ohio.
Filed Dec. 1, 1950, Serial No. 607,172. Published July 28, 1953. Class 46.

583,040. Rice. Monroe D. Green, trading as M. D. Green Rice Milling Co., San Francisco, Calif.
Filed Dec. 11, 1950, Serial No. 607,546. Published July 28, 1953. Class 46.

583,041. Publications of Cartoons Issued From Time to Time. Anne F. and Stewart Miller, Miami, Fla.
Filed Jan. 10, 1951, Serial No. 608,616. Published Aug. 25, 1953. Class 38.

583,042. Linings and Cushions for Rugs and Carpets. Charles Lachman Co., Inc., Phoenixville, Pa.
Filed Feb. 1, 1951, Serial No. 609,485. Published June 9, 1953. Class 50.

583,043. Closures and Fasteners Made From Non-Precious Metals for Wearing Apparel—Namely, Buttons, Snap Fasteners, Etc. Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also named Koh-I-Noor, United Metalware Factories, National Corporation, Prague, Czechoslovakia.
Filed Feb. 27, 1951, Serial No. 610,564. Published Aug. 18, 1953. Class 40.

583,044. Wines. Wine Growers Guild, Lodi, Calif.
Filed Mar. 5, 1951, Serial No. 610,881. Published Aug. 11, 1953. Class 47.

583,045. Condenser Paper and Condenser Tissue. Papierfabrik Schoeller & Hoesch G. m. b. H., Gernsbach, Germany.
Priority under Sec. 44(d). German Registration No. 615,357, filed Aug. 30, 1950.
Filed Feb. 21, 1951, Serial No. 611,615. Published Aug. 4, 1953. Class 37.

583,046. Single-Hand Cutting-Off Metal Working Tools—Namely, Rod, Bolt, Wire, and Sheet Cutters. H. K. Porter, Inc., Somerville, Mass.
Filed Apr. 18, 1951, Serial No. 612,824. Published June 30, 1953. Class 23.

583,047. Wrist Watch Bands. Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Filed June 19, 1951, Serial No. 615,391. Published July 28, 1953. Class 28.

583,048. Bacon and Ham. The E. Kahn's Sons Company, Cincinnati, Ohio.
Filed June 25, 1951, Serial No. 615,647. Published June 2, 1953. Class 46.

583,049. Non-Electrical Hair Curlers. Cleo Beauty Products Company, Boston, Mass., assignee of James A. Swenson, William E. Burns, and Richard H. Stead.
Filed June 27, 1951, Serial No. 615,804. Published Sept. 1, 1953. Class 40.

583,050. Insoles. Clifford J. Thompson, Davenport, Fla.
Filed July 9, 1951, Serial No. 616,256. Published Aug. 11, 1953. Class 39.

583,051. Lentils, Dried Peas, and Dried Beans. Michigan Bean Company, Saginaw, Mich.
Filed July 27, 1951, Serial No. 617,047. Published July 28, 1953. Class 46.

583,052. Lemon Flavored Carbonated Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks, and Flavoring Therefor. Seminole Flavor Company, Chattanooga, Tenn.
Filed July 24, 1951, Serial No. 617,069. Published Sept. 1, 1953. Class 45.

583,053. Apparatus or Machines Operated Hydraulically or by Other Power for Lifting Heavy Objects. R. H. Corbett & Co. Limited, Burgess Hill, England.
Filed July 30, 1951, Serial No. 617,108. Published June 30, 1953. Class 23.

583,054. Coffee, Tea, Fresh Eggs, Dried Beans, Etc. Piggly Wiggly Corporation, Jacksonville, Fla.
Filed Aug. 15, 1951, Serial No. 617,729. Published July 28, 1953. Class 46.

583,055. Window Curtains and Draperies. J. London & Co., Philadelphia, Pa.
Filed Sept. 25, 1951, Serial No. 619,206. Published Sept. 8, 1953. Class 42.

583,056. Ampules, Tablets, and Drops for Oral Use in the Treatment of Heart Disease, Etc. Alexis Moussalli, Paris (Seine), France.
Filed Sept. 25, 1951, Serial No. 619,208. Published July 28, 1953. Class 18.

583,057. Fresh Shell Eggs. Washington Co-Operative Farmers Association, Seattle, Wash.
Filed Sept. 18, 1951, Serial No. 619,487. Published June 2, 1953. Class 46.

583,058. Wines—Namely, Barberone, Blackberry, Burgundy, Cherry, Chianti, Concord Grape, Muscatel, Port, White Port, Sauterne, Sherry, Pale Dry Sherry, White Tokay, and Zinfandel. Wilen Brothers, Inc., Philadelphia, Pa.
Filed Oct. 29, 1951, Serial No. 620,638. Published Sept. 1, 1953. Class 47.

583,059. Valves Used in Hydraulic Control Systems—Namely, Automatically Operating Hydrostatic Distributing Valves. The Denison Engineering Company, Columbus, Ohio.
Filed Nov. 3, 1951, Serial No. 620,839. Published Aug. 25, 1953. Class 13

583,060. Compounded Synthetic Detergent Used To Wash Automobiles. Harold E. Little, Roanoke, Va.
Filed Nov. 5, 1951, Serial No. 620,895. Published Aug. 25, 1953. Class 52.

583,061. Flat Wall Paint. Wesco Waterpaints, Inc., Berkeley, Calif.
Filed Nov. 9, 1951, Serial No. 621,095. Published Sept. 1, 1953. Class 16.

583,062. Beer. Jacob Hornung Brewing Co., Philadelphia, Pa.
Filed Nov. 14, 1951, Serial No. 621,207. Published Sept. 1, 1953. Class 48.

583,063. Protective and Preservative Sealer and Finisher Coating Preparation for Paneling, Floors, and Furniture. Lazy Susan Products, Venice, Fla.
Filed Nov. 16, 1951, Serial No. 621,321. Published Sept. 1, 1953. Class 16.

583,064. Frozen Vegetables—Namely, Brussels Sprouts, Etc. Little America Frozen Foods, Inc., Pittsburgh, Pa.
Filed Nov. 20, 1951, Serial No. 621,474. Published July 28, 1953. Class 46.

583,065. Men's and Boys' Dress and Sport Shirts. Bedford Shirt Corp., New York, N. Y.
Filed Dec. 6, 1951, Serial No. 622,137. Published Aug. 4, 1953. Class 39.

583,066. Canned Fruits—Namely, Apricots, Cherries, Peaches, Pears, and Fruit Cocktail; Etc. Richmond-Chase Company, San Jose, Calif.
Filed Dec. 10, 1951, Serial No. 622,312. Published July 7, 1953. Class 46.

583,067. Calcium Pantothenate Containing Products for the Fortification of Foods and Feeds. Nopco Chemical Company, Harrison, N. J.
Filed Jan. 16, 1952, Serial No. 623,672. Published July 28, 1953. Class 18.

583,068. Ferrochrome. Union Carbide and Carbon Corporation, New York, N. Y.
Filed Jan. 29, 1952, Serial No. 624,251. Published Sept. 1, 1953. Class 14.

583,069. Following Articles of Iron, Steel, or Other Metals: Ornamental Railings, Etc. William J. Kiser, doing business as Vulcancraft Fabricating Company, Birmingham, Ala.
Filed Jan. 30, 1952, Serial No. 624,276. Published Aug. 11, 1953. Class 12.

583,070. Metal Cleaner and Descaler. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Feb. 15, 1952, Serial No. 625,028. Published Sept. 8, 1953. Class 52.

583,071. Toilet Seats and Covers. Sanitary Seat Manufacturing Corporation, Venice, Calif.
Filed Mar. 13, 1952, Serial No. 626,423. Published Aug. 25, 1953. Class 13.

583,072. Chicken and Live Stock Feeds. George W. Vunck, doing business as O. B. Vunck & Son, Voorheesville, N. Y.
Filed Mar. 13, 1952, Serial No. 626,431. Published June 23, 1953. Class 46.

583,073. Platform Slippers Having Soles of Cellular Rubber for Men and Women. R. G. Barry Corporation, Columbus, Ohio.
Filed Mar. 21, 1952, Serial No. 626,775. Published Aug. 25, 1953. Class 39.

583,074. Undercoating and Sound-Deadening Material for Automobiles and Trucks. Nox-Rust Chemical Corporation, Chicago, Ill.
Filed Mar. 27, 1952, Serial No. 627,145. Published Aug. 11, 1953. Class 12.

583,075. Candy. Price Candy Company, Kansas City, Mo.
Filed Apr. 7, 1952, Serial No. 627,701. Published July 7, 1953. Class 46.

583,076. Bath Crystals, Bath Oil, and Personal Deodorant. Flomar Products Company, Milwaukee, Wis.
Filed Apr. 11, 1952, Serial No. 627,936. Published Aug. 4, 1953. Class 51.

583,077. Ladies' and Misses' Shoes, Sandals, and Playshoes, Made of Raffia. Curt Wolfelt, doing business as Curt Wolfelt Studios, New York, N. Y.
Filed Apr. 11, 1952, Serial No. 628,080. Published Aug. 11, 1953. Class 39.

583,078. Pans for Cooking and Preparing Food. Mal M. Goodman, doing business as Malco Company. Los Angeles, Calif.
Filed Apr. 15, 1952, Serial No. 628,105. Published Aug. 25, 1953. Class 13.

583,079. Beauty Preparations, i. e., Cleansing Oils, and Surface Creams. The Erno Laszlo Company, New York, N. Y.
Filed Apr. 22, 1952, Serial No. 628,490. Published Aug. 4, 1953. Class 51.

583,080. Beauty Preparation, i. e., a Make-up Base. The Erno Laszlo Company, New York, N. Y.
Filed Apr. 22, 1952, Serial No. 628,492. Published Aug. 4, 1953. Class 51.

583,081. Beauty Preparation, i. e., a Face Powder. The Erno Laszlo Company, New York, N. Y.
Filed Apr. 22, 1952, Serial No. 628,493. Published Aug. 4, 1953. Class 51.

583,082. Beauty Preparations, i. e., Cleansing Oils, Surface Creams, Lotions, Make-up Bases, Face Powders, and Smoothing Oils. The Erno Laszlo Company, New York, N. Y.
Filed Apr. 22, 1952, Serial No. 628,499. Published Aug. 4, 1953. Class 51.

583,083. Cleaning Compounds for Household Textile Furnishings. Wade, Wenger & Associates, Inc., Chicago, Ill.
Filed Apr. 26, 1952, Serial No. 628,798. Published Sept. 8, 1953. Class 52.

583,084. Concrete Construction Forms and Parts for the Forms. Universal Form Clamp Co., Chicago, Ill.
Filed Apr. 28, 1952, Serial No. 628,833. Published Sept. 1, 1953. Class 12.

583,085. Brush and Comb Sets. Sears, Roebuck and Co., Chicago, Ill.
Filed May 7, 1952, Serial No. 629,326. Published Sept. 1, 1953. Class 40.

583,086. Sweet Peppers, Cucumber Salad (the Said Goods Being Packaged in Glass Jars). Mother's Food Products, Inc., Newark, N. J.
Filed May 16, 1952, Serial No. 629,810. Published Aug. 25, 1953. Class 46.

583,087. Ferro-Alloys — Namely, Ferro-Silicon, All Grades: Ferro-Chrome; Etc. Ohio Ferro-Alloys Corporation, Canton, Ohio.
Filed May 16, 1952, Serial No. 629,812. Published Sept. 8, 1953. Class 14.

583,088. Ladies' Slips and Half Slips. Archdale Manufacturing Company, Inc., High Point, N. C.
Filed May 22, 1952, Serial No. 630,053. Published Aug. 4, 1953. Class 39.

583,089. Ingredients Comprising a Silica Aggregate and a Sodium Silicate Solution and Used for Making a Silicate Cement. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa.
Filed May 23, 1952, Serial No. 630,112. Published Aug. 11, 1953. Class 12.

583,090. Metal Wall and Floor Cabinets—Namely, Kitchen Cabinets, Wardrobes, and Utility Cabinets. Electroweld Mfg. Co., Inc., Chicago, Ill.
Filed June 2, 1952, Serial No. 630,590. Published Aug. 25, 1953. Class 32.

583,091. Ready Mixed Paints. Benjamin Moore & Co., New York, N. Y.
Filed June 10, 1952, Serial No. 631,017. Published Sept. 1, 1953. Class 16.

583,092. Enamels. Benjamin Moore & Co., New York, N. Y.
Filed June 18, 1952, Serial No. 631,365. Published Sept. 1, 1953. Class 16.

583,093. Finger Rings. U. S. Diamond Ring Corp., New York, N. Y.
Filed June 24, 1952, Serial No. 631,703. Published Dec. 23, 1952. Class 28.

583,094. Internal Combustion Engines. Nordberg Manufacturing Company, Milwaukee, Wis.
Filed June 25, 1952, Serial No. 631,757. Published June 30, 1953. Class 23.

583,095. Concentrated Food Compound for Livestock and Poultry Containing as Principal Ingredients Wheat Red Dog, Oat Flour, Soy Flour, Powdered Buttermilk, Powdered Skim Milk, Blood Meal, Corn Starch, and Sugar. Mutual Products Co., Minneapolis, Minn.
Filed June 30, 1952, Serial No. 631,994. Published June 2, 1953. Class 46.

583,096. Quarterly Magazine. American Hospital Association, Chicago, Ill.
Filed July 2, 1952, Serial No. 632,064. Published Aug. 25, 1953. Class 38.

583,097. Rubber-Soled Canvas Shoes for the Use of Men, Women, and Children. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio.
Filed July 2, 1952, Serial No. 632,083. Published Aug. 11, 1953. Class 39.

583,098. Chocolate Pecans and Caramel Candy. Brecht Candy Company, Denver, Colo.
Filed July 12, 1952, Serial No. 632,463. Published June 23, 1953. Class 46.

583,099. Synthetic Yarns and Filaments, Especially Spun Yarns and Filaments Made of Polyvinyl Alcohol. Kurashiki Rayon Company Limited, Kurashiki, Japan.
Filed July 3, 1952, Serial No. 632,652. Published Aug. 18, 1953. Class 43.

583,100. Orthopedic Composition—Namely, a Melamine-Formaldehyde Resin Composition for Use in the Preparation of a Modified Plaster of Paris Cast. Davis & Geck, Inc., Brooklyn, N. Y.
Filed July 19, 1952, Serial No. 632,774. Published Aug. 25, 1953. Class 44.

583,101. Metal Reel-Like Containers for Holding and Dispensing Steel Strapping. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed July 23, 1952, Serial No. 632,962. Published Sept. 8, 1953. Class 2.

583,102. Scotch Whisky. J. & G. Stewart Limited, Edinburgh, Scotland.
Filed July 31, 1952, Serial No. 633,337. Published Sept. 1, 1953. Class 49.

583,103. Cookies. Leo B. De Hymel, Pasadena, Calif.
Filed Aug. 5, 1952, Serial No. 633,491. Published July 7, 1953. Class 46.

583,104. Polishing Preparations for Boots, Shoes, and Leather Goods. The Kiwi Polish Company Proprietary Limited, Richmond, near Melbourne, Australia.
Filed Aug. 6, 1952, Serial No. 633,542. Published Aug. 25, 1953. Class 4.

583,105. Soap. Charles Antell, Inc., Baltimore, Md.
Filed Aug. 11, 1952, Serial No. 633,705. Published Sept. 8, 1953. Class 52.

583,106. Metal Cookware—Namely, Metal Pots, Pans, Roasters, Trays, Inserts, and Covers. Saladmaster Sales, Inc., Dallas, Tex.
Filed Aug. 11, 1952, Serial No. 633,737. Published Aug. 25, 1953. Class 13.

583,107. Metal Cookware—Namely, Metal Pots, Pans, Roasters, Trays, Inserts, and Covers. Saladmaster Sales, Inc., Dallas, Tex.
Filed Aug. 11, 1952, Serial No. 633,738. Published Aug. 25, 1953. Class 13.

583,108. Narrow Elastic Webbing Made With Either Cotton, Rayon, or Silk. United Elastic Corporation, Easthampton, Mass.
Filed Aug. 12, 1952, Serial No. 633,803. Published Sept. 8, 1953. Class 42.

583,109. Flexible and Inflexible Abrasives. Behr-Manning Corporation, Troy, N. Y.
Filed Aug. 19, 1952, Serial No. 634,134. Published Sept. 8, 1953. Class 4.

583,110. Perfume and Cologne. Les Parfums de Dana, Inc., New York, N. Y.
Filed Aug. 19, 1952, Serial No. 634,146. Published Aug. 11, 1953. Class 51.

583,111. Perfume and Cologne. Les Parfums de Dana, Inc., New York, N. Y.
Filed Aug. 19, 1952, Serial No. 634,147. Published Aug. 4, 1953. Class 51.

583,112. Kitchen and Dinette Tables and Chairs. Douglas Furniture Corporation, Chicago, Ill.
Filed Aug. 25, 1952, Serial No. 634,394. Published Aug. 25, 1953. Class 32.

583,113. Plant Leaves From Which the Pulp Has Been Removed To Expose the Nervation Structure of the Leaves, Which Structure Is Dyed and Dried, and Used for Decorative Purposes. Raymond Elmer Ramont, doing business under the firm name of Floral Art Studios, Yucaipa, Calif.
Filed Aug. 26, 1952, Serial No. 634,489. Published Aug. 25, 1953. Class 1.

583,114. Shopping Bags Made of Imitation Leather. Herman H. Kleiss, Chicago, Ill.
Filed Sept. 3, 1952, Serial No. 634,789. Published Sept. 1, 1953. Class 2.

583,115. Metal Grooving Tools for the Application of Timber Connectors and Kits Comprising Such Tools and Timber Connectors. Timber Engineering Company, Washington, D. C.
Filed Sept. 8, 1952, Serial No. 635,006. Published Sept. 8, 1953. Class 23.

583,116. Canned Fruits and Canned Berries. Mark G. Gehlar, doing business as Oregon Fruit Products Co., Salem, Oreg.
Filed Sept. 9, 1952, Serial No. 635,031. Published June 23, 1953. Class 46.

583,117. Fresh Citrus Fruits. Consolidated Citrus Growers, Mesa, Ariz.
Filed Sept. 16, 1952, Serial No. 635,287. Published June 2, 1953. Class 46.

583,118. Canned Ham. Atalanta Trading Corporation, New York, N. Y.
Filed Sept. 18, 1952, Serial No. 635,388. Published July 14, 1953. Class 46.

583,119. Canned Ham. Atalanta Trading Corporation, New York, N. Y.
Filed Sept. 18, 1952, Serial No. 635,390. Published July 14, 1953. Class 46.

583,120. Canned Ham. Atalanta Trading Corporation, New York, N. Y.
Filed Sept. 18, 1952, Serial No. 635,393. Published June 2, 1953. Class 46.

583,121. Canned Ham. Atalanta Trading Corporation, New York, N. Y.
Filed Sept. 18, 1952, Serial No. 635,394. Published July 14, 1953. Class 46.

583,122. Canned Ham. Atalanta Trading Corporation, New York, N. Y.
Filed Sept. 18, 1952, Serial No. 635,395. Published July 14, 1953. Class 46.

583,123. Balloon, Airplane, Sailcloth, Umbrella, Lace, and Gauze Fabrics; Textile Carpets and Rugs; Window and Shower Curtains; and Textile Ribbons. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie, G. m. b. H.
Filed June 13, 1952, Serial No. 635,570. Published July 14, 1953. Class 42.

583,124. Paperboard Shipping Cases. O. B. Andrews Company, Chattanooga, Tenn.
Filed Sept. 24, 1952, Serial No. 635,671. Published Sept. 1, 1953. Class 2.

583,125. Yarns. Glanzstoff-Courtaulds G. m. b. H., Koln-Merheim, Germany.
Filed Sept. 30, 1952, Serial No. 635,962. Published Aug. 18, 1953. Class 43.

583,126. Cooking Utensils of Aluminum Alloy—To Wit, Fry Pans and Covers Therefor, Etc. Advance Aluminum Castings Corp., Chicago, Ill.
Filed Oct. 1, 1952, Serial No. 635,990. Published Aug. 25, 1953. Class 13.

583,127. Ladies' and Misses' Coats. Barkin, Levin & Co. Inc., New York, N. Y.
Filed Oct. 6, 1952, Serial No. 636,195. Published Aug. 25, 1953. Class 39.

583,128. Ladies' and Misses' Coats. Barkin, Levin & Co. Inc., New York, N. Y.
Filed Oct. 6, 1952, Serial No. 636,196. Published Aug. 25, 1953. Class 39.

583,129. Rice. Rice Growers Association of California, Sacramento, Calif.
Filed Oct. 7, 1952, Serial No. 636,308. Published July 7, 1953. Class 46.

583,130. Fabrics in the Piece Consisting of Cotton, Rayon, Wool, or Combinations Thereof. Barbet Mills, Inc., Gastonia, N. C.
Filed Oct. 13, 1952, Serial No. 636,551. Published Sept. 1, 1953. Class 42.

583,131. Glued Laminated Lumber. Ed Fountain Lumber Co., Los Angeles, Calif.
Filed Oct. 22, 1952, Serial No. 636,974. Published Aug. 11, 1953. Class 12.

583,132. Algin. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation.
Filed Nov. 4, 1952, Serial No. 637,590. Published Sept. 8, 1953. Class 6.

583,133. Algin. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation.
Filed Nov. 4, 1952, Serial No. 637,591. Published Sept. 8, 1953. Class 6.

583,134. Lanolin, Beeswax, Candelilla Wax, Carnauba Wax, Esparto Wax, Molding Wax, Ouricury Wax, and Palm Wax. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation.
Filed Nov. 4, 1952, Serial No. 637,592. Published Sept. 8, 1953. Class 6.

583,135. Lanolin, Beeswax, Candelilla Wax, Carnauba Wax, Esparto Wax, Molding Wax, Ouricury Wax, and Palm Wax. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation.
Filed Nov. 4, 1952, Serial No. 637,593. Published Sept. 8, 1953. Class 6.

583,136. Candy. Fine Products Corporation, Augusta, Ga.
Filed Nov. 7, 1952, Serial No. 637,768. Published June 9, 1953. Class 46.

583,137. Textile Fabrics Made of Wool, Silk, Cotton, Rayon, Linen, and Nylon Fibers. Comptoir de l'Industrie Cotonniere, Etablissements Boussac Société à Responsabilité Limitée, Paris, France.
Filed Nov. 8, 1952, Serial No. 637,817. Published Sept. 1, 1953. Class 42.

583,138. Employee Publication. The Progressive Farmer Company, Birmingham, Ala.
Filed Nov. 8, 1952, Serial No. 637,838. Published Aug. 25, 1953. Class 38.

583,139. Candy. Rand McNally & Company, Chicago, Ill.
Filed Nov. 8, 1952, Serial No. 637,839. Published Sept. 1, 1953. Class 46.

583,140. Beer. Gabriel Sedlmayr, Spaten-Franziskaner-Bräu A. G. München, Munich, Germany.
Filed July 26, 1951, Serial No. 637,846. Published Sept. 1, 1953. Class 48.

583,141. Water Closet Tank Ball Valve and Valve Seating Guide. Chicago Specialty Manufacturing Co., Chicago, Ill.
Filed Nov. 12, 1952, Serial No. 637,913. Published Aug. 25, 1953. Class 13.

583,142. Soap Especially Formulated for Wire-Drawing. Armour and Company, Chicago, Ill.
Filed Nov. 12, 1952, Serial No. 637,972. Published Aug. 4, 1953. Class 15.

583,143. Feed for Livestock and Poultry, and Dog Food in Dry Form Sold in Bags. Marshall Mill & Elevator Company, Marshall, Tex.
Filed Nov. 13, 1952, Serial No. 638,005. Published June 9, 1953. Class 46.

583,144. Ice Cream. Worthmor Ice Cream Co., Lake Worth, Fla.
Filed Nov. 13, 1952, Serial No. 638,029. Published July 14, 1953. Class 46.

583,145. Fresh Produce—Namely, Strawberries, Cabbage, Potatoes, Etc. Smith-Douglass Company, Inc., trading as Growers Supply Co., Norfolk, Va.
Filed Nov. 14, 1952, Serial No. 638,122. Published June 2, 1953. Class 46.

583,146. Canned Chiles, Pickles, and Canned Fruits—Namely, Guayabas, Mangoes, Pineapples, Quinces, Guavas, and Papaw. Clemente Jacques y Cia, S. A., Mexico City, Mexico.
Filed Nov. 17, 1952, Serial No. 638,193. Published July 28, 1953. Class 46.

583,147. Gasoline and Lubricating Oils. Shell Oil Company, New York, N. Y.
Filed Nov. 19, 1952, Serial No. 638,319. Published Aug. 4, 1953. Class 15.

583,148. Magazines. The Dealers' Digest Publishing Company, Inc., New York, N. Y.
Filed Nov. 25, 1952, Serial No. 638,571. Published Aug. 25, 1953. Class 38.

583,149. Boys' Shoes Made of Leather. Supowitz Brothers, Pittsburgh, Pa.
Filed Nov. 26, 1952, Serial No. 638,671. Published Aug. 11, 1953. Class 39.

583,150. Men's and Women's Shoes, Sandals, and Slippers. John Flautt Shoe Company Inc., Lynn, Mass.
Filed Dec. 5, 1952, Serial No. 639,030. Published Aug. 4, 1953. Class 39.

583,151. Jewelry—Namely, Expansion Bracelets, Identification Bracelets, Watch Attachments, Watch Idents, and Lockets. Foster Metal Products Incorporated, Attleboro, Mass.
Filed Dec. 5, 1952, Serial No. 639,031. Published July 28, 1953. Class 28.

583,152. Electric Wire Harnesses. Essex Wire Corporation, Detroit, Mich.
Filed Dec. 11, 1952, Serial No. 639,323. Published June 30, 1953. Class 21.

583,153. Paint Oil. Benjamin Moore & Co., New York, N. Y.
Filed Dec. 16, 1952, Serial No. 639,586. Published Sept. 1, 1953. Class 16.

583,154. Clothing — Namely, Underwear for Women. Standard Rayon Underwear Co., New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,670. Published Sept. 1, 1953. Class 39.

583,155. Coin-Controlled Amusement Device in the Nature of a Simulated Aircraft With Motor Means Controlled by Occupant for Producing Motion Effects. Bally Manufacturing Company, Chicago, Ill.
Filed Dec. 27, 1952, Serial No. 640,063. Published July 7, 1953. Class 22.

583,156. Kraft Container Board. Weyerhaeuser Timber Company, Tacoma, Wash.
Filed Dec. 27, 1952, Serial No. 640,090. Published June 30, 1953. Class 37.

583,157. Moulding Compounds Comprising Synthetic Rubber-Like Materials Particularly Useful for Moulding High Vacuum Gaskets. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Dec. 29, 1952, Serial No. 640,112. Published Sept. 1, 1953. Class 1.

583,158. Textile Rugs and Carpets. Waite Carpet Company, Oshkosh, Wis.
Filed Dec. 30, 1952, Serial No. 640,182. Published Sept. 8, 1953. Class 42.

583,159. Pipe Hanger Assemblies, Fittings, Concrete Inserts, Pipe Hanging Bases and Housings, Clips, Clamps, Rings, Anchoring and Fastening Devices, and Metal Forms for Mounting and Supporting Pipes. The Modern Hanger Corporation, Cleveland, Ohio.
Filed Jan. 2, 1953, Serial No. 640,296. Published Aug. 25, 1953. Class 13.

583,160. Felt Base, Linoleum, Composition, and Plastic Floor Coverings and Rugs, Not Woven. Bonafide Mills, Inc., Winthrop, Maine, and New York, N. Y.
Filed Jan. 7, 1953, Serial No. 640,430. Published Aug. 25, 1953. Class 20.

583,161. Wall Paints, Floor Paints, House Paints, Roof Paints, Enamels, Varnishes, and Stains. Progress Paint Mfg. Co., Inc., Louisville, Ky.
Filed Jan. 8, 1953, Serial No. 640,527. Published Sept. 1, 1953. Class 16.

583,162. Women's Maternity Dresses. Malouf Company, Dallas, Tex.
Filed Jan. 9, 1953, Serial No. 640,573. Published Sept. 1, 1953. Class 39.

583,163. Men's and Women's Suits and Overcoats, Women's Dresses, All Made of Natural Fibers, Synthetic Fibers, and Combinations of Natural and Synthetic Fibers. Bachmann Uxbridge Worsted Corporation, Uxbridge, Mass.
Filed Jan. 15, 1953, Serial No. 640,778. Published Aug. 11, 1953. Class 39.

583,164. Dust Cloths. Roscoe Dust Cloth Service, Inc., Chicago, Ill.
Filed Jan. 16, 1953, Serial No. 640,868. Published Sept. 1, 1953. Class 29.

583,165. Lacquer Primer-Sealer. E. I. du Pont de Nemours and Company, Wilmington, Del.
Original filed, act of 1946, Supplemental Register, Jan. 21, 1953; amended to application, Principal Register, June 12, 1953, Serial No. 641,027. Published Sept. 1, 1953. Class 16.

583,166. Hair Brushes, Nail Brushes, and Tooth Brushes. Gibson-Thomsen Co., Inc., New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,041. Published Sept. 1, 1953. Class 29.

583,167. Textile Ribbons. National Tinsel Manufacturing Company, Manitowoc, Wis.
Filed Jan. 21, 1953, Serial No. 641,078. Published Aug. 4, 1953. Class 42.

583,168. Ice Cream and Sherbet. Chism Ice Cream Co., Inc., doing business as Chism Ice Cream Co., Reno, Nev.
Filed Jan. 22, 1953, Serial No. 641,125. Published July 28, 1953. Class 46.

583,169. Pine Oil Disinfectant, Isopropyl Alcohol Compound, and Mint Oil Disinfectant. National Paper & Specialty Co., Inc., doing business as Napasco Chemical Co., Thibodaux, La.
Filed Jan. 23, 1953, Serial No. 641,201. Published Sept. 8, 1953. Class 6.

583,170. Ladies' and Misses' Coats, Suits, Jackets, and Skirts. The House of Swansdown, Inc., New York, N. Y.
Filed Jan. 26, 1953, Serial No. 641,301. Published Aug. 4, 1953. Class 39.

583,171. Women's, Misses', and Children's Coats, Suits, Dresses, Blouses, and Negligees, and Men's and Boys' Coats, Suits, Jackets, and Sweaters. Lansburgh & Bro., Washington, D. C., assignor to City Stores Company, a corporation of Delaware.
Filed Jan. 26, 1953, Serial No. 641,310. Published Aug. 25, 1953. Class 39.

583,172. Bimetallic Articles — Namely, Internal Combustion Engines, Pump Cylinders, Journal Bearings, Pistons, and Gears. Fairchild Engine and Airplane Corporation, Farmingdale, N. Y.
Filed Jan. 30, 1953, Serial No. 641,546. Published July 14, 1953. Class 23.

583,173. Fresh Citrus Fruits. Polk County Citrus Sub-Exchange, Bartow, Fla.
Filed Feb. 4, 1953, Serial No. 641,740. Published June 2, 1953. Class 46.

583,174. Leather. Eagle-Ottawa Leather Company, Grand Haven, Mich.
Filed Feb. 13, 1953, Serial No. 642,207. Published Aug. 25, 1953. Class 1.

583,175. Fruit Flavored Maltless Soft Drinks and Concentrates for Making Same. Wilrick, Inc., New York, N. Y.
Filed Feb. 13, 1953, Serial No. 642,249. Published Sept. 1, 1953. Class 45.

583,176. Live Poultry—Namely, Baby Chicks. Paul T. Leonard, doing business as Leonard's Hatchery & Breeding Farm, Osage, Iowa.
Filed Feb. 16, 1953, Serial No. 642,289. Published Aug. 25, 1953. Class 1.

583,177. Cosmetics—Namely, Sunburn Creams and Sunburn Lotions. Sheldon Marvin Spector, doing business under the name and style of Sun Laboratories, Miami, Fla.
Filed Feb. 16, 1953, Serial No. 642,314. Published Aug. 4, 1953. Class 51.

583,178. Leather. Fred Rueping Leather Company, Fond du Lac, Wis.
Filed Feb. 17, 1953, Serial No. 642,371. Published Aug. 25, 1953. Class 1.

583,179. Rigid Polyvinyl Chloride Sheets. Seiberling Rubber Company, Barberton, Ohio.
Filed Feb. 17, 1953, Serial No. 642,375. Published Aug. 25, 1953. Class 1.

583,180. Jewel Cases Made of Decorative Fabric Covered Metal. Farrington Manufacturing Company, Jamaica Plain, Mass.
Filed Feb. 18, 1953, Serial No. 642,397. Published Sept. 1, 1953. Class 2.

583,181. Jewel Cases Made of Decorative Fabric Covered Metal. Farrington Manufacturing Company, Jamaica Plain, Mass.
Filed Feb. 18, 1953, Serial No. 642,398. Published Sept. 1, 1953. Class 2.

583,182. Jewel Cases Made of Decorative Fabric Covered Metal. Farrington Manufacturing Company, Jamaica Plain, Mass.
Filed Feb. 18, 1953, Serial No. 642,402. Published Sept. 1, 1953. Class 2.

583,183. Jewel Cases Made of Decorative Fabric Covered Metal. Farrington Manufacturing Company, Jamaica Plain, Mass.
Filed Feb. 18, 1953, Serial No. 642,403. Published Sept. 1, 1953. Class 2.

583,184. Deodorant, Shaving Lotion, and After Shave Stick. Swiss Pine Importing Co., Inc., New York, N. Y.
Filed Feb. 20, 1953, Serial No. 642,578. Published Aug. 4, 1953. Class 51.

583,185. Greeting Cards. Munson Masterpieces, Inc., Babylon, N. Y.
Filed Feb. 25, 1953, Serial No. 642,765. Published Aug. 25, 1953. Class 38.

583,186. Feature Picture Section of a Periodical. Parade Publication, Inc., New York, N. Y.
Filed Feb. 25, 1953, Serial No. 642,767. Published Aug. 25, 1953. Class 38.

583,187. Women's, Misses', and Girls' Dresses. Reliance Manufacturing Company, Chicago, Ill.
Filed Feb. 25, 1953, Serial No. 642,771. Published Sept. 1, 1953. Class 39.

583,188. Women's and Misses' Dresses and Housecoats. Basila Mfg. Co., Inc., Mobile, Ala.
Filed Feb. 26, 1953, Serial No. 642,797. Published Sept. 1, 1953. Class 39.

583,189. Bird Feed. Petpak Products Company, Milwaukee, Wis.
Filed Feb. 26, 1953, Serial No. 642,837. Published Sept. 8, 1953. Class 46.

583,190. Shoes Made of Leather, Fabric, or Rubber, or Combination of Such Materials, for Men, Women, and Children. London Character Shoes Corporation, New York, N. Y.
Filed Feb. 27, 1953, Serial No. 642,889. Published Aug. 11, 1953. Class 39.

583,191. Medicinal Preparation for the Treatment of Metabolic Disturbances. The Upjohn Company, Kalamazoo, Mich.
Filed Feb. 27, 1953, Serial No. 642,912. Published Aug. 18, 1953. Class 18.

583,192. Fresh Vegetables and Melons. Comer Produce Company, Phoenix, Ariz.
Filed Mar. 2, 1953, Serial No. 642,948. Published July 28, 1953. Class 46.

583,193. Amorphous Silica. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed Mar. 4, 1953, Serial No. 643,089. Published Aug. 25, 1953. Class 1.

583,194. Finger Rings. Blancard & Company, Inc., New York, N. Y.
Filed Mar. 6, 1953, Serial No. 643,205. Published July 28, 1953. Class 28.

583,195. Dresses for Women and Misses. The Gottfried Company, Cleveland, Ohio.
Filed Mar. 10, 1953, Serial No. 643,418. Published Sept. 1, 1953. Class 39.

583,196. Textile Rugs and Carpets. Waite Carpet Company, Oshkosh, Wis.
Filed Mar. 11, 1953, Serial No. 643,521. Published Sept. 8, 1953. Class 42.

583,197. Women's Undergarments—Namely, Slips. Holland-Hessol Co., Inc., New York, N. Y.
Filed Mar. 13, 1953, Serial No. 643,587. Published Sept. 1, 1953. Class 39.

583,198. Tire Chains. The Cleveland Chain & Mfg. Co., Cleveland, Ohio.
Filed Mar. 17, 1953, Serial No. 643,755. Published Sept. 1, 1953. Class 13.

583,199. Door Catches, Door Hinges, and Rolling Door Hangers. Washington Steel Products, Inc., Tacoma, Wash.
Filed Mar. 17, 1953, Serial No. 643,802. Published Sept. 1, 1953. Class 13.

583,200. Sterling Silver Hollowware. The Ellmore Silver Co., Inc., Meriden, Conn.
Filed Mar. 23, 1953, Serial No. 644,021. Published July 28, 1953. Class 28.

583,201. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Mar. 25, 1953, Serial No. 644,169. Published July 28, 1953. Class 28.

583,202. Canned Dog Food and Canned Cat Food. Hi-Life Packing Company, Chicago, Ill.
Filed Mar. 27, 1953, Serial No. 644,303. Published July 14, 1953. Class 46.

583,203. Canned Clam Chowder and Canned Clams. Gouley N. Burcham, doing business as Inspectors Sea Food Co., Los Angeles, Calif.
Filed Mar. 30, 1953, Serial No. 644,387. Published July 14, 1953. Class 46.

583,204. Ladies' Dresses and House Coats. Perfection Frocks, Inc., New York, N. Y.
Filed Mar. 31, 1953, Serial No. 644,500. Published Sept. 1, 1953. Class 39.

583,205. Watches and Clocks. Cyma Watch Co., Inc., New York, N. Y.
Filed Apr. 1, 1953, Serial No. 644,544. Published July 28, 1953. Class 27.

583,206. Ladies' House Dresses and Aprons. Perfection Frocks, Inc., New York, N. Y.
Filed Apr. 1, 1953, Serial No. 644,567. Published Sept. 1, 1953. Class 39.

583,207. Watches and Parts of Watches. Amida S. A., Grenchen, Switzerland.
Filed Apr. 6, 1953, Serial No. 644,710. Published July 28, 1953. Class 27.

583,208. Girdles. International Latex Corporation, Dover, Del.
Filed Apr. 6, 1953, Serial No. 644,755. Published Sept. 1, 1953. Class 39.

583,209. Foundation Garments. Kabo, Inc., Chicago, Ill.
Filed Apr. 6, 1953, Serial No. 644,762. Published Sept. 1, 1953. Class 39.

583,210. Beads, Pearl Jewelry, and Pearls. Thomas & Co., Inc., Seattle, Wash.
Filed Apr. 7, 1953, Serial No. 644,883. Published July 28, 1953. Class 28.

583,211. Sugarless Candy Substitute for Restricted Dietary Use. The Chicago Dietetic Supply House, Inc., Chicago, Ill.
Filed Apr. 13, 1953, Serial No. 645,111. Published Aug. 25, 1953. Class 46.

583,212. Textile Fabrics in the Piece of Cotton and Synthetic Fibers. Dan River Mills, Incorporated, Danville, Va.
Filed Apr. 15, 1953, Serial No. 645,359. Published Sept. 8, 1953. Class 42.

583,213. Fabrics in the Piece of Synthetic Fibers. Burlington Mills, Corporation, Greensboro, N. C.
Filed Apr. 20, 1953, Serial No. 645,534. Published Sept. 8, 1953. Class 42.

583,214. Watches. Hampden Watch Company, Chicago, Ill.
Filed Apr. 21, 1953, Serial No. 645,647. Published July 28, 1953. Class 27.

583,215. Piece Goods of Rayon, Nylon, Silk, Cotton, Wool, and Combinations Thereof. National Tricot Company, Hawthorne, N. J.
Filed Apr. 21, 1953, Serial No. 645,657. Published Sept. 8, 1953. Class 42.

583,216. Piece Goods of a Blend of Worsted and Acrylic Fiber. Wamsutta Mills, New Bedford, Mass.
Filed Apr. 21, 1953, Serial No. 645,685. Published Sept. 8, 1953. Class 42.

583,217. Window Curtains. Bartmann & Bixer, Inc., New York, N. Y.
Filed Apr. 23, 1953, Serial No. 645,769. Published Sept. 8, 1953. Class 42.

583,218. Cotton Piece Goods. S. H. Kress and Company, New York, N. Y.
Filed Apr. 23, 1953, Serial No. 646,034. Published Sept. 8, 1953. Class 42.

583,219. Window Curtains, Cafe Curtains, and Dutch Curtains. De Jong Inc., Long Island City, N. Y.
Filed Apr. 28, 1953, Serial No. 646,055. Published Sept. 8, 1953. Class 42.

583,220. Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers, and Combinations Thereof. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Apr. 29, 1953, Serial No. 646,114. Published Sept. 8, 1953. Class 42.

Service Marks

583,221. Dry Cleaning of Textile Articles. Nathan Root, doing business as Root & Company, Grand Rapids, Mich.
Filed Apr. 25, 1951, Serial No. 613,144. Published Sept. 1, 1953. Class 103.

583,222. Service, Maintenance, and Repair of Internal Combustion Engines, Transmissions, Etc. The Euclid Road Machinery Co., Euclid, Ohio.
Filed Feb. 1, 1952, Serial No. 624,402. Published Sept. 1, 1953. Class 103.

583,223. Consulting Engineering Services Rendered in the Field of Accident Prevention, Etc. Robert E. Benshoof, doing business as Accident Control Associates, Burbank, Calif.
Original filed, act of 1946, Supplemental Register, Apr. 16, 1952; amended to application, Principal Register, Nov. 10, 1952, Serial No. 628,139. Published Sept. 1, 1953. Class 100.

583,224. Custom Molding of Articles From Moldable Plastic Material. Chicago Molded Products Corporation, Chicago, Ill.
Filed Aug. 8, 1952, Serial No. 633,696. Published Sept. 1, 1953. Class 106.

583,225. General Insurance Brokerage Services. D. K. MacDonald & Company, Inc., Seattle, Wash.
Filed Aug. 26, 1952, Serial No. 634,477. Published July 14, 1953. Class 102.

583,226. Treating Rayon and Acetate Suiting Fabrics of Manufacturers To Render Them Crease Resistant. R. W. Bates Piece Dye Works, Inc., Garnerville, N. Y.
Filed Feb. 17, 1953, Serial No. 642,339. Published Sept. 1, 1953. Class 106.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

583,227. (Class 52. Detergents and Soaps.) Economics Laboratory, Inc., St. Paul, Minn. Original filed, act of 1946, Principal Register, Oct. 20, 1947; amended to application, Supplemental Register, July 25, 1949, Serial No. 538,382.

"A LITTLE OO DOES A LOT"

For Cleaning Compound Having Water Softening Properties for General Use, a Cleaning Compound for Wall Washing, Paint Cleaning, and General Use, a Cleaning Compound for Windows, Mirrors, Brass Fixtures, Painted and Varnished Woodwork, Dishes, Enamelware, Kitchen Utensils, Glassware, Silverware, and for a Washing and Cleaning Compound Used Alone and in Addition to Soap for the Cleaning of Clothes.
Claims use since Sept. 1, 1924.

583,228. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Benham Manufacturing Corporation, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Nov. 2, 1949; amended to application, Supplemental Register, Oct. 1, 1953, Serial No. 587,175.

SPIN-A-BROIL

For Broilers.
Claims use since Apr. 22, 1949.

583,229. (Class 46. Foods and Ingredients of Foods.) Capital Bakers, Inc., Harrisburg, Pa. Filed June 16, 1950, Serial No. 599,225.



No claim is made to any of the wording appearing on the drawing except the words "Pennsylvania Dutch."
For Bread.
Claims use since Oct. 12, 1948.

583,230. (Class 46. Foods and Ingredients of Foods.) J-A Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 23, 1951; amended to application, Supplemental Register, July 22, 1953, Serial No. 621,559.

lemon quick

For Imitation Lemon Juice Base for Use in Cooking and Baking.
Claims use since June 1950.

583,231. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Elmer A. Riley, Monrovia, Calif. Original filed, act of 1946, Principal Register, Jan. 3, 1952; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 623,156.

Riley BROOM HOLDER

For Broom Holding Brackets for Mounting on a Supporting Surface.
Claims use since Dec. 20, 1951.

583,232. (Class 21. Electrical Apparatus, Machines, and Supplies.) J F D Manufacturing Co., Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Jan. 22, 1952; amended to application, Supplemental Register, Sept. 21, 1953, Serial No. 623,894.

"Quik-Rig"

For Television Antenna.
Claims use since Sept. 1, 1951.

583,233. (Class 36. Musical Instruments and Supplies.) C. Bechstein Pianofortefabrik Aktiengesellschaft, Berlin, Germany. Original filed, act of 1946, Principal Register, Feb. 12, 1952; amended to application, Supplemental Register, Sept. 18, 1953, Serial No. 624,810.

C. BECHSTEIN

Applicant claims ownership of German Registration No 22,869, dated Mar. 16, 1897; and United States Registration No. 296,863.
For Pianos and Grand Pianos.
Claims use since October 1945 and first used in commerce between foreign nations and the United States on Dec. 10, 1951.

583,234. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Gets-A-Lite Company, Chicago, Ill., assignee of Adjustable Steel Post Corp., doing business under the name Gets-A-Lite Company. Original filed, act of 1946, Principal Register, Mar. 7, 1952; amended to application, Supplemental Register, Dec. 13, 1952, Serial No. 626,070.

GETS-A-LITE

For Device Consisting of a Pole on the End of Which is a Clamp and/or a Suction Cup Used To Replace Electric Light Bulbs and Fluorescent Tubes in Out of Reach Places.
Claims use since Sept. 14, 1951.

583,235. (Class 29. Brooms, Brushes, and Dusters.) Alwin Brush and Supply Company, Milwaukee, Wis. Filed Apr. 21, 1952, Serial No. 628,381.

Wash-Rite

For Fountain Mops.
Claims use since Mar. 1, 1950.

583,236. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Farmland Irrigation Company, Inc., Fresno, Calif. Original filed, act of 1946, Principal Register, Apr. 28, 1952; amended to application, Supplemental Register, Sept. 29, 1953, Serial No. 628,814.

WHEEL-TRAC

Applicant claims ownership of Registrations Nos. 572,162 and 508,676.
For Equipment for Portable Irrigation Systems—Namely, Pipe Couplers for Sprinkler Irrigation Piping, Which Couplers Are Mounted on Dollies and Sleds for Supporting a Mobile Sprinkler Irrigation System.
Claims use since June 11, 1951.

583,237. (Class 18. Medicines and Pharmaceutical Preparations.) Jacqueline Cochran, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 17, 1952; amended to application, Supplemental Register, Aug. 14, 1953, Serial No. 629,841.

LIPSAVER

For Lip Pomade for the Treatment and Prevention of Chapped Lips.
Claims use since May 6, 1952.

583,238. (Class 46. Foods and Ingredients of Foods.) Murray Loring, doing business trading as Dr. Loring's Products Company, Williamsburg, Va. Original filed, act of 1946, Principal Register, June 13, 1952; amended to application, Supplemental Register, Sept. 18, 1953, Serial No. 631,165.

Dr. Loring's



For Strained Lamb Puppy Food, Strained Liver Puppy Food, Strained Beef Puppy Food.
Claims use since Mar. 15, 1952.

583,239. (Class 6. Chemicals and Chemical Compositions.) Powr-Pak, Inc., Bridgeport, Conn. Original filed, act of 1946, Principal Register, July 1, 1952; amended to application, Supplemental Register, Sept. 18, 1953, Serial No. 632,045.



For Aerosol Bomb or Dispenser Containing a Chemical Composition Which When Sprayed Produces Snow-Like Particles for Use Decoratively.
Claims use since Apr. 1, 1952.

583,240. (Class 6. Chemicals and Chemical Compositions.) Powr-Pak, Inc., Bridgeport, Conn. Original filed, act of 1946, Principal Register, July 1, 1952; amended to application, Supplemental Register, Sept. 18, 1953, Serial No. 632,046.



For Aerosol Bomb or Dispenser Containing a Chemical Composition Which When Sprayed Produces Snow-Like Particles for Use Decoratively.
Claims use since Apr. 1, 1952.

583,241. (Class 46. Foods and Ingredients of Foods.) I. C. Parker, Fort Worth, Tex. Original filed, act of 1946, Principal Register, July 3, 1952; amended to application, Supplemental Register, May 20, 1953, Serial No. 632,130.



For Frozen Confection on a Cone.
Claims use since May 15, 1952.

583,242. (Class 6. Chemicals and Chemical Compositions.) Jack Cameron, doing business as De-Stroy Laboratories, Terre Haute, Ind. Original filed, act of 1946, Principal Register, July 11, 1952; amended to application, Supplemental Register, May 29, 1953, Serial No. 632,415.

DE-STROY

For Rat and Mice Poison Bait.
Claims use since February 1951.

583,243. (Class 6. Chemicals and Chemical Compositions.) A. W. Chesterton Company, doing business under the name Chesterton Mechanical Packings, Everett, Mass. Original filed, act of 1946, Principal Register, Sept. 20, 1952; amended to application, Supplemental Register, Sept. 14, 1953, Serial No. 635,520.

Spragrip

For Liquid Belt Dressing.
Claims use since Aug. 15, 1952.

583,244. (Class 19. Vehicles.) Supersite Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 30, 1952; amended to application, Supplemental Register, Oct. 1, 1953, Serial No. 635,978.

PROTEKT-A-DOR

For Bumpers for Automobile Doors.
Claims use since Sept. 10, 1952.

583,245. (Class 18. Medicines and Pharmaceutical Preparations.) Medical Drug Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 10, 1952; amended to application, Supplemental Register, Sept. 18, 1953, Serial No. 639,280.

NUROBLOC

For Pharmaceutical Products—Namely, a Composition Containing Quinine Urea Hydrochloride, Sodium Iodide, and Benzyl Alcohol, Designed To Be Injected To Relieve Painful Conditions Such as Neuritis, Lumbago, Sacroiliac Syndrome, Sacroiliac Synchondrosis, Myositis, Rheumatic Pain, Torticollis, and Locked Shoulder, Etc.
Claims use since May 1928.

583,246. (Class 19. Vehicles.) Mark Laudahl, Dallas, Oreg. Original filed, act of 1946, Principal Register, Dec. 15, 1952; amended to application, Supplemental Register, Sept. 18, 1953, Serial No. 639,477.

LAUDAHL

For Trailer Couplings and Brake-Actuating Trailer Couplings.
Claims use since Jan. 3, 1951.

583,247. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Yara Engineering Corporation, Elizabeth, N. J. Original filed, act of 1946, Principal Register, Dec. 23, 1952; amended to application, Supplemental Register, May 13, 1953, Serial No. 639,971.

INNER-TITE

For Pipes and Pipe Fittings—Namely, Pipe Unions, Pipe Couplings, Valves To Be Used in Controlling Fluids, Adapters, Pipe and Bell Clamps, Split Sleeves, Pipe Saddles, Wall Seals, Saddle Clamps, Expansion and Insulating Joints, Caps, Plugs, and Reducers, and Drip Pots.
Claims use since 1932.

583,248. (Class 46. Foods and Ingredients of Foods.) Waterloo Canning Association, Waterloo, Wis. Original filed, act of 1946, Principal Register, Mar. 20, 1953; amended to application, Supplemental Register, June 25, 1953, Serial No. 643,988.

RICH n RARE

For Canned Sweet Peas, Canned June Peas.
Claims use since May 5, 1943.

583,249. (Class 6. Chemicals and Chemical Compositions.) W. H. Barber Company, Minneapolis, Minn. Filed Apr. 23, 1953, Serial No. 645,768.

KRITTER SPRAY

Applicant claims ownership of Registration No. 312,033.
For Petroleum Products—Namely, Dairy or Animal Spray.
Claims use since Aug. 1, 1932.

TRADE-MARK REGISTRATIONS RENEWED

41,133. "CONQUEROR" AND DESIGN. Registered Sept. 22, 1903. M. Phillips & Son. Re-renewed Sept. 22, 1953, to Phillips-Jones Corporation, New York, N. Y., a corporation of New York. Shirts. Class 39.

41,135. "PICKWICK" AND DESIGN. Registered Sept. 22, 1903. M. Phillips & Son. Re-renewed Sept. 22, 1953, to Phillips-Jones Corporation, New York, N. Y., a corporation of New York. Shirts. Class 39.

41,487. VALDA. Registered Nov. 17, 1903. Henry Canonne, Paris, France. Re-renewed Nov. 17, 1953, to Pastival, Inc., New York, N. Y., a corporation of New York. Pastils for the Treatment of Maladies of the Respiratory Organs. Class 18.

42,131. MANZAN. Registered Feb. 23, 1904. Pineule Medicine Co. Re-renewed Feb. 23, 1954, to E. C. De Witt & Co. Inc., Chicago, Ill., a corporation of New York. A Preparation for Alleviating Mild Rectal Irritations Associated With Piles, Also Irritations Caused by Cuts, Burns, and Bruises. Class 18.

93,599. "DR. PETTIT'S" ETC. AND DESIGN. Registered Sept. 30, 1913. Howard Bros. Chemical Co., Buffalo, N. Y., a corporation of New York. Re-renewed Sept. 30, 1953. Eye-Water. Class 18.

94,720. REPRESENTATION OF RECTANGULAR DESIGN. Registered Dec. 30, 1913. Dollfus-Mieg & Cie. Societe Anonyme, Mulhausen, Germany. Re-renewed Dec. 30, 1953, to Dollfus-Mieg & Cie. Societe Anonyme, Mulhouse (Haut-Rhin), France, a corporation organized under the laws of the Republic of France. Yarns, Threads, Cords, Braids, and Laces Made of Cotton, Wool, Silk, Linen, Jute, and Ramie. Class 43.

95,087. ROSE-O-CUBA. Registered Feb. 3, 1914. Fleck Cigar Co., Ltd. Re-renewed Feb. 3, 1954, to Yocum Bros., Inc., Reading, Pa., a corporation of Pennsylvania. Cigars. Class 17.

95,088. "ROSE-O-CUBA" AND DESIGN. Registered Feb. 3, 1914. Fleck Cigar Co., Ltd. Re-renewed Feb. 3, 1954, to Yocum Bros., Inc., Reading, Pa., a corporation of Pennsylvania. Cigars. Class 17.

95,169. STANOLIND. Registered Feb. 3, 1914. Standard Oil Company, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Re-renewed Feb. 3, 1954. Gas-Engine Tractor-Oil. Class 15.

95,551. "LA DORINE" AND DESIGN. Registered Feb. 24, 1914. Maurice Monin, Paris, France. Re-renewed Feb. 24, 1954, to Dorin, Inc., New York, N. Y., a corporation of New York. Rouge, Face, and Toilet Powders. Class 51.

296,555. "TRINER'S" ETC. AND DESIGN. Registered Aug. 9, 1932. Joseph Triner Corporation, Chicago, Ill., a corporation of Illinois. Renewed Aug. 9, 1952. General Tonic Having a Wine Base. Class 18.

299,633. DIO DANK. Registered Dec. 13, 1932. Samuel Bonat & Bro., New York, N. Y. Renewed Dec. 13, 1952, to Samuel Bonat & Bro. Inc., Paterson, N. J., a corporation of New York. Face Powder, Lipstick, Rouge, Eye Shadow, Hair Dye, Lemon Cream, Almond Cream, Strawberry Cream, Etc. Class 51.

300,920. NUSSCO. Registered Feb. 14, 1933. Nachod & United States Signal Co., Inc., Louisville, Ky., a corporation of Kentucky. Renewed Feb. 14, 1953. Electric Block Signal Light Systems for Railways, Electric Light Signal Systems for Street Traffic, Etc. Class 21.

304,694. "EL PAXO" AND DESIGN. Registered July 18, 1933. Paxton and Gallagher Co., Omaha, Nebr. Renewed July 18, 1953, to H. Fendrich, Incorporated, Evansville, Ind., a corporation of Indiana. Cigars. Class 17.

304,710. "TENSO" AND DESIGN. Registered July 18, 1933. Dr. Arnold Huggenberger, doing business as Physik Instrumente Huggenberger, Zurich, Switzerland. Renewed July 18, 1953. Machines, Apparatus, and Devices for Testing All Kinds of Structures and Materials for Producing, Etc. Class 26.

305,196. "UNION DE BODEGAS" ETC. AND DESIGN. Registered Aug. 8, 1933. Compania Mata Union de Bodegas Andaluzas S. A., Malaga, Spain, a corporation organized under the laws of Spain. Renewed Aug. 8, 1953. Wines. Class 47.

305,806. CONCORD. Registered Aug. 22, 1933. G. Garnett & Sons, Limited, Apperley Bridge, near Bradford, England. Renewed Aug. 22, 1953, to G. Garnett & Sons, Limited, Bradford, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Woolen and Worsted Piece Goods. Class 42.

306,046. "FRANKI" AND DESIGN. Registered Sept. 5, 1933. Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme, Liege, Belgium, a corporation organized under the laws of Belgium. Renewed Sept. 5, 1953. Foundation Piles and Sheet Piles Molded in the Ground, Piles, Sheet Piles and Construction Elements Prepared in Advance, Etc. Class 12.

306,126. SEALED POWER. Registered Sept. 5, 1933. Sealed Power Corporation, Muskegon, Mich., a corporation of Michigan. Renewed Sept. 5, 1953. Engine Pistons, Piston Pins, and Engine Cylinder Sleeves. Class 23.

306,180. FLEXOGLOSS. Registered Sept. 12, 1933. Agfa Ansco Corporation, Binghamton, N. Y. Renewed Sept. 12, 1953, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware. Solution for Treating Photographic Prints. Class 6.

306,257. PYEQUICK. Registered Sept. 12, 1933. General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Renewed Sept. 12, 1953. Flour Particularly Pastry Flour. Class 46.

306,305. DIRECT APPLICATOR. Registered Sept. 12, 1933. The Geo. H. Nowland Company, Cincinnati, Ohio, a corporation of Ohio. Renewed Sept. 12, 1953. Antiseptic and Tincture of Iodine. Class 18.

306,319. "SEA-TONE TABLETS" ETC. AND DESIGN. Registered Sept. 12, 1933. Hymen H. Barr, Los Angeles, Calif. Renewed Sept. 12, 1953, to H. H. Barsky, Palm Springs, Calif. Organic Mineral Food or Food Supplement in Tablet Form Intended for Human Consumption, Etc. Class 46.

306,334. Firestone. Registered Sept. 12, 1933. The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Renewed Sept. 12, 1953. Tire Covers; Brake Lining; Gaskets; Etc. Class 35.

306,448. BLUE STREAK. Registered Sept. 19, 1933. Standard Motor Products, Inc., New York, N. Y. Renewed Sept. 19, 1953, to Standard Motor Products, Inc., Long Island City, N. Y., a corporation of New York. Parts for Ignition Systems of Internal Combustion Engines—Namely, Induction Coils. Class 21.

306,667. ALBASTONE. Registered Sept. 26, 1933. The S. S. White Dental Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 26, 1953. Dental Plaster for Making Casts and Models, Etc. Class 44.

306,755. WIGLERS. Registered Sept. 26, 1933. Albert I. Wigler, Newark, N. J. Renewed Sept. 26, 1953. Soap, Shaving Cream, Belt Dressings, Dry Cleaner, Razor Strop Abrasive, Etc. Class 4.

306,910. OLD FORT YUMA. Registered Oct. 3, 1933. McDaniel & Sons, Yuma, Ariz. Renewed Oct. 3, 1953, to McDaniel & Sons, Inc., Somerton, Ariz., a corporation of Arizona. Fresh Cantaloupes, Fresh Vegetables. Class 46.

307,083. "EMPIRE" ETC. AND DESIGN. Registered Oct. 17, 1933. Empire Bottling Works, Newark, N. J., a corporation of New Jersey. Renewed Oct. 17, 1953. Bluing, Ammonia, and Javelle Water. Class 6.

307,210. VINDEX. Registered Oct. 17, 1933. Coast 2 Coast Oil Company, Cleveland, Ohio. Renewed Oct. 17, 1953, to The Pennzoil Company, Oil City, Pa., a corporation of Pennsylvania. Lubricating Oils. Class 15.

307,393. "JOHNNIE WALKER" ETC. AND DESIGN. Registered Oct. 24, 1933. John Walker & Sons Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Oct. 24, 1953. Whisky. Class 49.

307,645. HUMMER. Registered Oct. 31, 1933. Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts. Renewed Oct. 31, 1953. Punching Machines as Office Appliances for Perforating Sheets. Class 23.

308,020. "FREYN DESIGN" AND DESIGN. Registered Nov. 14, 1933. Freyn Engineering Company, Chicago, Ill. Renewed Nov. 14, 1953, to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware. Blast Furnace Charging Controls for Sequencing and Coordinating Charging Apparatus for Blast Furnaces, Etc. Class 26.

308,577. PROTEX. Registered Dec. 12, 1933. Iowa Soap Company, Burlington, Iowa. Renewed Dec. 12, 1953, to Manhattan Soap Company, Inc., New York, N. Y., a corporation of New York. Toilet Soap. Class 32.

308,593. REPRESENTATION OF GREYHOUND, AND DESIGN LINED FOR BLACK AND YELLOW. Registered Dec. 12, 1933. Enders Razor Company, Inc., New York, N. Y. Renewed Dec. 12, 1953, to Durham-Enders Razor Corporation, Mystic, Conn., a corporation of New York. Razors and Razor Blades. Class 23.

308,783. "PLUS-FOUR" ETC. AND DESIGN. Registered Dec. 19, 1933. Philip Forsyth Latimer, doing business as Peter Forsyth & Company. Renewed Dec. 19, 1953, to Peter Forsyth & Company (Distillers) Limited, Glasgow, Scotland, a company organized under the laws of Great Britain and Northern Ireland. Whisky. Class 49.

308,860. "HEP-IRON" ETC. AND DESIGN. Registered Dec. 26, 1933. Morris Rosomoff, doing business as Rossmar Laboratories. Renewed Dec. 26, 1953, to Rossmar Laboratories, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Tonic and Hematinic. Class 18.

309,323. ARDENA SOOTHING CREAM. Registered Jan. 9, 1934. Elizabeth Arden, Inc. Renewed Jan. 9, 1954, to Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Cosmetic Cream for Eruptions of the Skin. Class 51.

309,595. "MARATHON CRAVATS" ETC. AND DESIGN. Registered Jan. 23, 1934. Saul Goldl, doing business as Goldl Neckwear Mfg. Co., Dallas, Tex. Renewed Jan. 23, 1954. Cravats, Four-in-Hand Ties, Bow Ties, Neck Ties. Class 39.

309,623. NEW YORK INSIDE OUT. Registered Jan. 23, 1934. United Feature Syndicate, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 23, 1954. Section or Column Appearing in a Newspaper or Periodical. Class 38.

309,980. TEXINE. Registered Feb. 6, 1934. Texas Chemical Company. Renewed Feb. 6, 1954, to Consolidated Chemical Industries Inc., Houston, Tex., a corporation of Delaware. Chemical Compound—Namely, an Inhibitor for Muriatic Acid. Class 6.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

63,492. "OLD STYLE LAGER" AND DRAWING. Registered June 25, 1907. G. Heileman Brewing Co., La Crosse, Wis. Beer. Class 48. Corrected as follows:



92,070. TRAGASOL. Registered June 17, 1913. The Gum Tragasol Supply Company Limited, Hooton, England. Mucilaginous Products of Vegetable Origin for Sizing, Dressing and Finishing Fabrics and Materials. Class 1. Corrected as follows: In the renewal certificate, line 2, address of registrant, for "Hooten, England" read *Hooton, England*.

92,071. TRAGASOL. Registered June 17, 1913. The Gum Tragasol Supply Company Limited, Hooton, England. Leather Dressings and Polishes. Class 4. Corrected as follows: In the renewal certificate, line 2, address of registrant, for "Hooten, England" read *Hooton, England*.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 53,070. Registered May 22, 1906. The E. H. Wright Company, Ltd., Kansas City, Mo. Republished by registrant.



For Preparations for Smoking Meats, Particularly a Liquid Smoke Distilled From Wood.
Claims use since about Jan. 1, 1896.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Reg. No. 364,134. Registered Jan. 17, 1939. Nathan Rosenblum & Co., Sharon, Pa. Republished by Golden Dawn Foods, Sharon, Pa., a partnership.

Golden Dawn

For Matches.
Claims use since Aug. 4, 1938.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 68,202. Registered Mar. 17, 1908. Bonney Vise & Tool Works, Inc., Philadelphia, Pa. Republished by Bonney Forge & Tool Works, Allentown, Pa., a corporation of Pennsylvania.

BONNEY

For Wrenches and Vises.
Claims use since 1876.

Reg. No. 308,511. Registered Dec. 5, 1933. Henry Disston & Sons, Incorporated, Tacony, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant, present address Philadelphia, Pa.

KEYSTONE K6 Challenger

For Saws.
Claims use since May 31, 1933.

Reg. No. 308,513. Registered Dec. 5, 1933. Henry Disston & Sons, Incorporated, Tacony, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant, present address Philadelphia, Pa.

K-1 KEYSTONE LEADER

For Saws.
Claims use since May 31, 1933.

Reg. No. 412,535. Registered Mar. 13, 1945. Heckethorn Manufacturing & Supply Co., Littleton, Colo., a corporation of Colorado. Republished by registrant.

HECOMATIC

For Automatic Work Feeding and Ejecting Devices for Placing Work Pieces Into Centerless Grinding Machines.
Claims use since Apr. 1, 1939.

Reg. No. 413,785. Registered May 15, 1945. Heckethorn Manufacturing & Supply Co., Littleton, Colo., a corporation of Colorado. Republished by registrant.

· HECO ·

For Motor Driven Machines for Placing in Position, Closing, and Welding the Extremities of Tubing To Form Tubular Containers and Ejecting the Finished Product.
Claims use since Apr. 1, 1939.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 414,184. Registered May 29, 1945. Heckethorn Manufacturing & Supply Co., Littleton, Colo., a corporation of Colorado. Republished by registrant.

·HECO·

For Gauging Machines for Gauging the Perfection, Size, and Length of External and Internal Threads.
Claims use since Apr. 1, 1939.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 330,466. Registered Dec. 3, 1935. Oscar C. Palmer, Phoenix, Ariz. Republished by Palmer Manufacturing Corporation, Phoenix, Ariz., a corporation of Arizona.

SNO-BREZE

For Air Conditioning Units.
Claims use since May 1, 1934.

Reg. No. 431,691. Registered July 29, 1947. Palmer Manufacturing Corporation, Phoenix, Ariz., a corporation of Arizona. Republished by registrant.

Palmaire

For Heating Apparatus, Specifically Gas Fired Furnaces.
Claims use since Sept. 1, 1945.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 308,473. Registered Dec. 5, 1933. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

OKAY TRED

For Leather Belting.
Claims use since May 6, 1933.

CLASS 37

PAPER AND STATIONERY

Reg. No. 57,916. Registered Dec. 4, 1906. Mittineague Paper Company, West Springfield, Mass. Republished by Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts.

RHODODENDRON

For Writing, Drawing, and Book Paper, Paper for Covers of Pamphlets and Catalogues, and Cardboard.
Claims use since on or about January 1900.

Reg. No. 59,010. Registered Dec. 25, 1906. Woronoco Paper Company, Woronoco, Mass. Republished by Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts.

Woronoco

For All Kinds of Fine Writing Paper.
Claims use since Jan. 21, 1879.

Reg. No. 65,496. Registered Oct. 8, 1907. Mittineague Paper Company, West Springfield, Mass. Republished by Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts.

Carillon

For Writing Paper, Book Paper, and Paper To Be Used for Covers of Pamphlets and Catalogues.
Claims use since on or about the month of December 1906.

Reg. No. 106,380. Registered Oct. 19, 1915. Strathmore Paper Company, West Springfield, Mass. Republished by Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts.

Aladdin

For Cover Paper, That Is, Paper Used for Covers for Catalogues, Pamphlets, and the Like.
Claims use since on or about Dec. 1, 1914.

Reg. No. 270,000. Registered Apr. 22, 1930. Strathmore Paper Company, Mittineague, Mass., a corporation of Massachusetts. Republished by registrant, present address West Springfield, Mass.

Beau Brilliant

The word "Brilliant" is disclaimed apart from the mark as shown.
For Book, Text, and Cover Paper and Mailing Envelopes.
Claims use since Oct. 29, 1929.

Reg. No. 271,428. Registered June 3, 1930. Strathmore Paper Company, Mittineague, Mass., a corporation of Massachusetts. Republished by registrant, present address West Springfield, Mass.

ENVOY

For Papeteries, Bristol Board, Paper and Cards for Wedding, Announcement, and Greeting Purposes, and Mailing Envelopes.
Claims use since Apr. 29, 1929.

CLASS 39

CLOTHING

Reg. No. 166,598. Registered Apr. 10, 1923. The Cohen, Friedlander & Martin Co., Toledo, Ohio. Republished by Rothmoor Corporation, Chicago, Ill., a corporation of Delaware.



For Ladies' Suits and Coats.
Claims use since 1896.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 304,477. Registered July 11, 1933. Orange-Crush Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

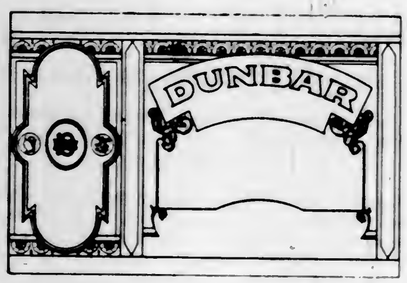
OCCO

For Nonalcoholic, Noncereal, and Maltless Beverages and Syrups, Compounds and Concentrates for Making the Same.
Claims use since Feb. 11, 1933.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 241,350. Registered Apr. 24, 1928. Dunbar-Dukate Company, Inc., New Orleans, La. Republished by McPhillips Packing Corporation, Bayou La Batre, Ala., a corporation of Alabama.



No claim is made to the lines surrounding the mark apart from the mark as shown.
For Canned Shrimp, Canned Raviolis, and Canned Oysters.
Claims use since 1878.

Reg. No. 300,478. Registered Jan. 24, 1933. John H. Wilkins Company, Washington, D. C., a corporation of Delaware. Republished by registrant.

just wonderful!

For Coffee.
Claims use since Aug. 1, 1921.

Reg. No. 440,293. Registered Aug. 24, 1948. Nathan Rosenblum & Co., also doing business as Golden Dawn Foods, Sharon, Pa., assignor to Golden Dawn Foods Wholesale Grocery Company. Republished by Golden Dawn Foods, Sharon, Pa., a partnership.

Golden Dawn

For Jellies, Fruit Preserves, Peanut Butter, Pickles, Mustard, Catsup, Chili Sauce, Canned Soups, Canned Salmon, Canned Citrus Juices, and Vinegar.
Claims use since August 1935.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 321,912. Registered Feb. 19, 1935. Bohemian Distributing Co. Ltd., Los Angeles, Calif. Republished by Bohemian Distributing Company, Los Angeles, Calif., a corporation of California.

Courier

For Gin.
Claims use since on or about Oct. 1, 1934.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 359,820. Registered Aug. 30, 1938. Ellen Noreen Baum, Denver, Colo. Republished by Noreen, Inc., Denver, Colo., a corporation of Colorado.

Noreen
SUPER COLOR RINSE

The words "Color Rinse" are disclaimed apart from the word "Noreen."
For Hair Tinting Rinses.
Claims use since Apr. 1, 1938.

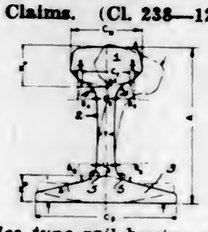
REISSUES

DECEMBER 1, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

23,745
RAILWAY RAIL
George R. Burkhardt, Chicago, Ill.
Original No. 2,577,601, dated December 4, 1951, Serial No. 568,309, December 15, 1944. Application for reissue January 10, 1952, Serial No. 265,870

9 Claims. (Cl. 238—125)



8. A Vignoles type rail having a head section, a base section, a web section, head-web fillets and base-web fillets, the sides of said web section being of a substantially flat concave curvature, the point of minimum width of said web lying between the point of tangency of the head-web and base-web fillets with the web and being along a horizontal line passing through the center of curvature of the arcs of greatest radii of the web on opposite sides of the vertical center line of the cross section of the rail, the width of the web at the juncture with the head-web and base-web fillets being not less than said minimum width, the radius (of each) of said head-web fillets being not more than 1.6 and not less than 0.8 times the width of the web at its juncture with the head-web fillets, the depth of the base section at the point of tangency of the base-web fillets therewith being not less than 0.8 or more than 1.6 times the radius of the base-web fillets, and said head section at its thickest point having a depth of not more than 4 and not less than 2.0 times the width of the web at the juncture of web and head-web fillets, the maximum width of said head being not more than 4 times and not less than 2.5 times the width of the web at the juncture of the web and head-web fillets, the width of the web at the juncture with the base-web fillets being not less than said minimum width, the radii of the base-web fillets being not more than 0.8 and not less than 0.5 times the width of the web at the juncture with said base-web fillets.

23,746
VACCINE AND PROCESS FOR MANUFACTURING THE SAME
Arden H. Killinger and John R. Dick, Fort Dodge, Iowa, assignors to Fort Dodge Laboratories, Inc., Fort Dodge, Iowa, a corporation of Delaware
No Drawing. Original No. 2,594,180, dated April 22, 1952, Serial No. 89,796, April 26, 1949. Application for reissue August 23, 1952, Serial No. 306,075

13 Claims. (Cl. 167—80)

5. In a process of preparing a vaccine for immunizing swine against hog cholera wherein a virulent strain of hog cholera virus is attenuated, said attenuation being obtained solely by serial rabbit transfers, with attenuation of the virulence taking place after about 13 to 15 rabbit transfers, the improvement comprising propagating hog cholera attenuated virus through swine and securing a hog product containing attenuated virus in concentrated form, by injection of the virus attenuated by rabbit transfers into a hog and, when a temperature rise above normal is obtained, harvesting hog substance containing the virus in relatively high concentration, said hog substance being selected from the group consisting of hog blood, hog spleen and hog testicle, treating said hog substance to remove undesired fractions of the group consisting of fibrin and unduly large particles incapable of passing through a fine screen, discarding said undesired hog fractions and finally isolating a hog cholera vaccine substance of hog origin containing attenuated hog cholera virus in relatively high concentration.

23,747
LOCK BUCKLE
Hugo R. Kirsten, Brooklyn, N. Y.
Original No. 2,618,826, dated November 25, 1952, Serial No. 192,040, October 25, 1950. Application for reissue August 7, 1953, Serial No. 373,079

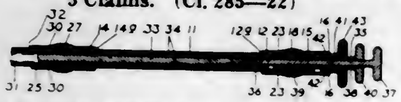
6 Claims. (Cl. 24—167)



6. The combination of a frame having a pivotally mounted tongue, said tongue having two jaw forming projections at the free end thereof, a cylinder having a closure at one end thereof and an opening in the cylindrical wall thereof, a cylindrical barrel having a cylindrical wall rotatably and sidably mounted in said cylinder, said barrel having an abutment at one end and two diametrically opposed openings in its cylindrical wall with guide shoulders formed by axially inwardly extending depressions in the troughs of the barrel openings, a pin secured to the wall of the cylinder and extending diametrically through said barrel openings, a spring tensed between the closure at one end of said cylinder and the abutment of said barrel normally to urge the barrel toward the other end of said cylinder and said guide shoulders into engagement with said pin, said barrel having an opening in its cylindrical wall defined by an axially extending first shoulder

and an axially extending second shoulder, said first shoulder exposed at the opening in said cylinder when said pin rests in one deperession in each of said barrel openings and the barrel is in locked position, said second shoulder exposed at the opening in the wall of said cylinder when said pin rests in the other depression of each of said barrel openings and said barrel is in unlocked position to receive said tongue to enable pressure on said tongue to rotate said barrel into locking engagement with the jaw of said tongue, there being a key opening formed in said other end of said cylinder, said barrel having axially extending edges at its other end with clearances therebetween, the key opening being in alinement with said clearances and enabling the bit of a key to extend into said cylinder to engage the axially extending edges to rotate said barrel either into locked or unlocked position.

23,748
COMPRESSION BY-PASS AND WRENCH DEVICE
Merlin E. Barber, Decatur, Ill.
Original No. 2,543,954, dated March 6, 1951, Serial No. 64,780, December 11, 1948. Application for reissue February 28, 1952, Serial No. 273,938
5 Claims. (Cl. 285—22)



7. A by-pass assembly of a major transverse dimension less than the inner diameter of a service pipe for insertion completely thereinto to completely isolate the walls of an extended section thereof comprising: an open-ended imperforate tubular body of extended length having a substantially unrestricted central flow passage therethrough; means defining an exterior annular abutment surface integral with said body adjacent each end thereof; an annularly radially-expansible gasket ring seated against each said abutment surface and normally of an outer diameter slightly less than the inner diameter of the service pipe; an annular compression member threadedly engaged with each end of said body in opposition to the corresponding said abutment surface and with the corresponding said gasket ring therebetween, at least one said compression member extending beyond its corresponding end of said body and both said members having a substantially unrestricted central flow passage therethrough aligned with said body passage; radially-extending rigid means on said body exposed to said body passage and accessible from therewithin for interengagement by complementary means on a wrench device removably inserted in the assembly from one end thereof to maintain said body against rotation; rigid means on said one compression member extending radially into and accessible from within its said passage for interengagement by complementary means on the inserted wrench device to rotate said one compression member by manipulation of the wrench device to compress the corresponding gasket ring and radially expand the latter into peripheral sealing engagement with the inner surface of the service pipe; and rigid means on the other of said compression members for interengagement by complementary means on the inserted wrench device to rotate said other member by manipulation of the wrench device to compress the corresponding gasket ring and radially expand the latter into peripheral sealing engagement with the inner surface of the service pipe.

23,749
DISTRIBUTOR PLATE
Leslie L. Brunk, Detroit, Mich., assignor to Renberles Products Co., Detroit, Mich., a corporation of Michigan
Original No. 2,617,899, dated November 11, 1952, Serial No. 124,008, October 28, 1949. Application for reissue May 28, 1953, Serial No. 358,222
12 Claims. (Cl. 200—31)



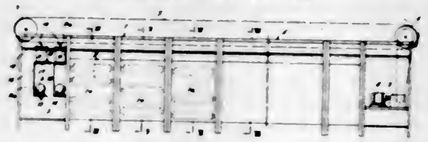
7. A rotor mechanism for attachment to a distributor housing in which is rotatably mounted a cam shaft, a supporting member, means attaching said supporting member to said distributor housing, a ball bearing comprising an inner rotary raceway and an outer stationary raceway, each having a groove and ball bearings in the grooves of said raceways, a distributor plate, said supporting member having horizontal portions and at least one substantially vertical circular portion, said stationary raceway being located within said vertical portion and supported on one of said horizontal portions of said supporting member, said distributor plate having means rigidly attaching the same to said rotary raceway, said plate having an outer portion overlying both raceways of the ball bearing and the upper of said horizontal portions of said supporting member, said ball bearing being concentrically mounted with relation to said cam shaft when said supporting member is attached to said housing.

PATENTS

GRANTED DECEMBER 1, 1953

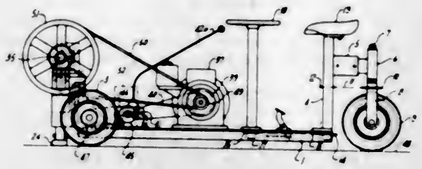
GENERAL AND MECHANICAL

2,660,723
APPARATUS FOR THE STABILIZATION OF IVORY
Emile Jules Delamarre, Neuilly-sur-Seine, and Roger Louis Bréjoux, Paris, France
Application April 6, 1951, Serial No. 219,726
Claims priority, application France March 6, 1951
1 Claim. (Cl. 34—56)



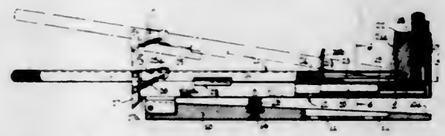
An apparatus for the stabilization of ivory in pieces of any shape comprising an active tunnel, infra-red rays emitting elements mounted in said active tunnel, a heat-insulated tunnel placed directly behind said active tunnel and means for displacing the pieces to be treated through the interior of said tunnels, said means for displacing comprising an endless conveyor moving along said tunnels and, for each of said pieces, a supported traveller adapted to be displaced by said endless conveyor, a beam pivotally mounted on said traveller, a support suspended on one arm of said beam, said support having a small number of distinct points of contact for supporting said piece, and a counterweight mounted on the other arm of said beam, the value of said counterweight being such that said beam automatically tilts for discharging said piece as soon as the reduction of weight of said piece is slightly greater than that corresponding to the desired percentage of reduction of the moisture of the ivory.

2,660,724
PORTABLE HAMMERING MACHINE
Glenn A. Thompson, Pittsburgh, Pa.
Application July 20, 1950, Serial No. 174,901
2 Claims. (Cl. 1—1)



1. A hammering machine for renailing nails on boardwalks comprising a mobile chassis having a wheeled axle adjacent one end and having an outboard steering wheel supporting the other end, a seat mounted adjacent said steering wheel at the extreme end of the chassis having a bracket for mounting the steering wheel thereon, a hammer mounted above the wheeled axle and extending beyond the end frame of the chassis opposite the seating end thereof, a counterweight mounted on said chassis on the side opposite the hammer to counteract the hammer blows, a prime mover and transmission, a drive mechanism connecting the wheeled axle with said prime mover and a drive mechanism for actuating the hammer, said first-named drive mechanism including a variable speed transmission for varying the speeds of the axle to regulate the number of blows of the hammer to the rate of travel of the chassis.

2,660,725
STAPLING DEVICE
Frank R. Curtiss, New Haven, Conn.
Application January 21, 1953, Serial No. 332,232
8 Claims. (Cl. 1—3)



1. In a stapling device having an arm provided with a rear opening staple magazine to receive and hold a supply of staples therein and a staple driving means adjacent the forward end, and a staple pusher positioned in said magazine and urged forwardly therein to feed staples to said staple driving means; the improvement wherein a rearwardly extending member is pivotally carried by the arm and is movable about said pivot to and from a position overlying the arm; means on the pusher for moving the pusher to retracted position; means on the member for engaging and releasably holding the pusher in retracted position for movement with said member and out of the magazine; and means releasably holding the member in position overlying the arm, said means being released to permit movement of the member and retracted pusher about the pivot away from the arm to expose the rear staple receiving opening in the magazine to readily receive staples therein.

2,660,726
MEANS FOR POSITIONING AND HOLDING FASTENERS IN EXPLOSIVELY ACTUATED FASTENER DRIVING TOOLS
Ben Weingart, Los Angeles, Calif.
Application June 7, 1951, Serial No. 230,386
7 Claims. (Cl. 1—44.5)

1. A gun type fastener applicator including, a barrel adapted to receive the fastener and having an enlarged opening therein concentric with the bore of said barrel, a firing means adapted to ignite a fastener driving charge, and a fastener holding means including, a magnet substantially filling said opening in the barrel

with a pole of said magnet holding the fastener in an unactuated position in the barrel, and a



mounting of non-magnetic material surrounding and supporting the magnet in said opening.

2,660,727
NAIL FEEDING AND DRIVING IMPLEMENT
Jens Thornton, Quincy, Mass., assignor to The Independent Nail and Packing Company, Inc., Bridgewater, Mass., a corporation of Massachusetts
Application December 31, 1949, Serial No. 136,193
12 Claims. (Cl. 1—46)



1. A nail driving implement comprising a body structure having a straight guideway, a sleeve fitted for free endwise movement in said guideway whereby said structure is adapted to be advanced and retracted on said sleeve, a driver rod fitted for free endwise movement in said sleeve and engageable by said structure to be retracted therewith, the sleeve having a nail guiding passage in its lower end, and the driver rod having an extension pin movable through said guiding passage for expelling nails therefrom, the sleeve having a detent element arranged to engage under a shoulder on the driver rod when the body structure is retracted and to yieldingly maintain the driver rod in its retracted position when the body structure is subsequently advanced on the sleeve.

2,660,728
GLARE-SHIELDING DEVICE
Mathew H. Thornton, St. Paul, Minn.
Application December 13, 1951, Serial No. 261,525
13 Claims. (Cl. 2—14)



13. A glare-shielding device having in combination, a member of semi-transparent sheet material having an area equal to a substantial portion of an ordinary spectacle lens and having a straight edge at one side, a member spaced a short distance from said member in a direction substantially perpendicular to the plane of said member and having a straight edge, means for positioning said straight edges to bring said edges into a position to give a sharp dividing line between what is seen in the wearer's unobstructed vision and through said member, and means for supporting said member and first mentioned means in front of the eye of the wearer with said straight edges at the side thereof corresponding to the side of the road being driven on by said wearer.

2,660,729
BRASSIÈRE
Greta Katz, Beverly Hills, Calif.
Application March 21, 1949, Serial No. 82,620
2 Claims. (Cl. 2—42)



1. A brassière comprising a pair of spaced cups, each cup including a base and a point, said cups having opposing contiguous reinforced edges spaced from each other, a band, one end of said band connected to each of the opposing contiguous edges of said cups between the base of the cup and the point, the upper edge of said band adjacent the base of said cups being positioned beneath the base of said cup, said band being otherwise disconnected from said brassière at said cups, the edge of said band adjacent said cup being concave to fit under the breasts when the brassière is worn, and means for securing said band and the brassière about the wearer.

2,660,730
CHILD'S PLAY SUIT
Selma Nordling, Alhambra, Calif.
Application June 21, 1952, Serial No. 294,890
5 Claims. (Cl. 2—75)

1. A garment for a child, said garment comprising a skirt and a bib rising from the waistline thereof, snap fastener elements at the upper edge of the bib, the skirt having at the waistline thereof a hem, the hem being cut at the front and rear of the garment to form right and left hem portions, tapes slidably extending through

the hem portions of the skirt, the tapes being upwardly extendible from the rear ends of the hem in parallel alinement and adapted to extend over the shoulders of the child, and snap fastener elements at the ends of the tapes for engage-



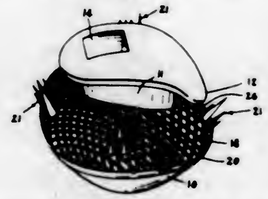
ment with the elements of the bib, the other ends of the tapes extending from the front of the hem for manual operation to draw the tapes through the hem fittingly to adjust the garment to the shape of the child's body.

2,660,731
SCARF FASTENER
Ethel Shelton Dunning, St. Paul, Minn.
Application February 6, 1950, Serial No. 142,688
5 Claims. (Cl. 2—323)



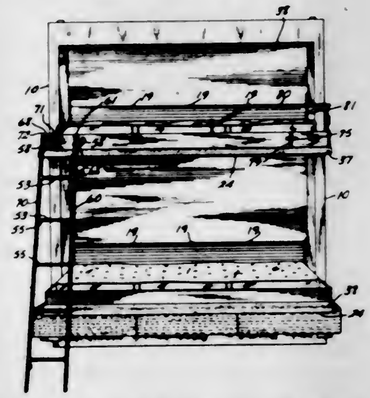
1. A scarf fastener including an elongated strip of flat flexible material, a second strip of flexible material secured to the first strip intermediate the ends thereof to overlie one of the ends of the first strip, separable fastener portions on both of the overlying strip ends, said fastener portions being directed in opposite directions, and cooperable fastener portions in longitudinally spaced relation on the first mentioned strip and spaced from said separable fastener portions, said cooperable portions being directed in the same direction.

2,660,732
MOVABLE POST-ENUCLEATED IMPLANT
William Stone, Jr., Cambridge, Mass.
Application September 29, 1949, Serial No. 118,610
9 Claims. (Cl. 3—13)



1. An implant for use in replacement of an eye of an individual, said implant comprising an implant portion shaped for insertion within the eye socket, and pointed connection means fixedly carried by said implant portion and having integral attachment portions for piercing the motive muscular structure of the eye being replaced and for attaching said structure to said implant.

2,660,733
FOLDING BERTH AND SEATING UNIT
Warren J. Williams, Richmond Hill, N. Y.
Application March 24, 1950, Serial No. 151,558
4 Claims. (Cl. 5—9)

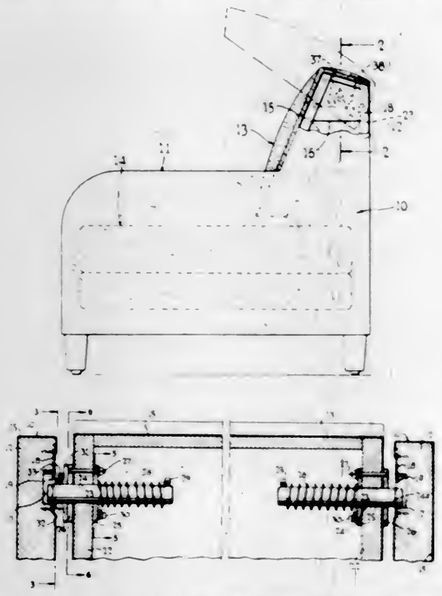


1. In a berth installation disposed adjacent a bulkhead, in combination, a pair of stanchions secured to the bulkhead at the spaced distance of the berth, at least one berth disposed between the bulkheads, axially-aligned trunnions for pivotally mounting the berth, a stationary disc disposed on one of said trunnions at one of said stanchions, a lever pivotally mounted at one end wall of the berth having a distal lug engaging the periphery of the disc, said disc periphery having a plurality of notches, spring means for normally urging said lever towards the disc to engage its said lug in said notches, one of said notches being angularly disposed on the disc to lock the berth in closed position, and another of said notches being disposed 90° from said first notch to lock the berth in open sleeping position, manual means for withdrawing said lever lug, said berth adapted to be turned more than 90° from its closed position to an inclined slanted make-up position, said stationary disc having a peripheral notch to lock said berth in said slanted make-up position, a coil tensile spring disposed at said trunnion, one end of the spring being secured to said trunnion to turn with the berth, the other end of the spring being secured to said stanchion.

2,660,734
LOUNGE BED WITH SHIFTABLE BACK
Paul E. Dumble, Elmsford, William J. Dumble, New York, and John J. Dowling, Bellerose, N. Y., assignors to James McCutcheon & Co., New York, N. Y., a corporation of New York
Application October 23, 1948, Serial No. 56,202
4 Claims. (Cl. 5—59)

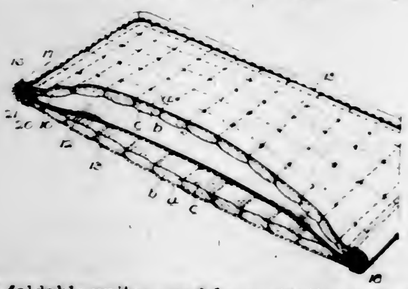
1. In a lounge bed having main frame ends high at the rear, a lounge back having frame ends, aligned pivot pins loosely movable angularly and longitudinally in openings in the upper parts of the frame ends of said lounge back when down, helical springs on said pivot pins with their inner ends attached thereto and their outer ends attached to the corresponding frame

ends of said lounge back to urge said lounge back upwardly, means for connecting the outer ends of said pivot pins to said main frame ends and preventing rotational and longitudinal movement therebetween, and means for holding said lounge back lowered for use or raised com-



prising at one end of said lounge bed a first plate secured on the outer face of the corresponding frame end of the lounge back and a second plate fixed on the corresponding pivot pin and pressed against the first plate by the corresponding spring, said plates having interengaging pin and recess detent means at their adjacent faces.

2,660,735
WATERPROOF LAMINATED MATTRESS PAD
Velma H. Baum, Lancaster, Pa.
Application November 5, 1951, Serial No. 254,872
1 Claim. (Cl. 5—354)



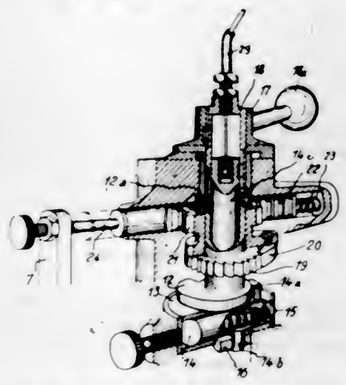
A foldable unitary pad for protecting an underlying surface comprising a plurality of superimposed layers of outer and inner sheet means, the outer layer means being air spaced and centrally free of connection with the said inner means, said inner means being waterproof and air tight, and securing means around and embracing the peripheral adjacent superimposed edges of said superimposed layers of the several outer and inner sheet means holding the same in position, said outer layer means each comprising a padded unit formed of an inner sheet of cheese cloth, a middle layer of padding and an outer sheet of cloth and crossed rows of stitching therethrough, thereby forming a plurality of cushion areas between the rows of stitching, said peripheral edge of said inner layer means being overlapped and embraced by the said outer sheet of cloth of one of said outer layers and being further embraced by said securing means.

2,660,736
FLOTATION EQUIPMENT
Lawrence P. Biefeld, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application July 19, 1945, Serial No. 605,953
8 Claims. (Cl. 9—17)



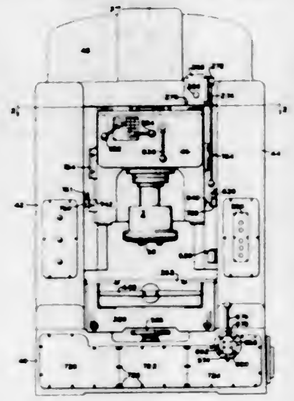
7. Life preserving equipment comprising a casing having a plurality of compartments therein, each of said compartments containing a porous mass of glass fibers replete with voids throughout the mass, a binding agent distributed through the mass and binding the fibers together at their junctures and holding the fibers in the relation to preserve the voids in the mass, and a water-repellent agent coating the surfaces of the fibers throughout the mass and preventing entry of water into the voids of the mass.

2,660,737
LATHE ATTACHMENT FOR PROGRESSIVELY CUTTING A THREAD
Marcel Marius Escure, Bagneux, France
Application May 4, 1948, Serial No. 24,938
Claims priority, application France May 14, 1947
10 Claims. (Cl. 10—101)



1. An attachment for a lathe having a bed, a work-spindle and a feed rod, for converting said lathe into an automatic screw-cutting lathe comprising a tool-carrying system including a first carriage adapted to reciprocate over the bed in a direction perpendicular to the work spindle, a second tool-holder carriage adapted to slide over the first carriage in a direction parallel to said work spindle, rotary means connectible with the feed rod of the lathe and controlling the reciprocating movement of the carriages, yielding means urging the carriages back into their starting positions, a stop adapted to be shifted by the second carriage at each progression of the latter, a stop for the movement of the first carriage and a mechanism interconnecting operatively the two stops to shift the second stop by an amount defined by the progression of the first stop.

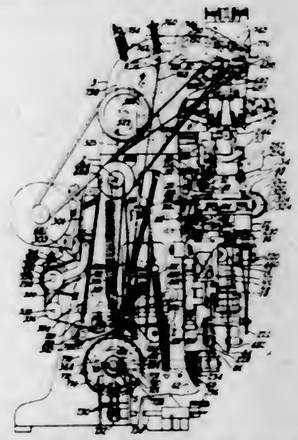
2,660,738
METAL-WORKING MACHINE
George E. Hieber, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania
Application October 15, 1947, Serial No. 779,926
11 Claims. (Cl. 10—129)



1. In a metal working machine, a vertically reciprocating spindle carrying a work fashioning tool, a horizontally reciprocable carriage a work holding chuck mounted on said carriage for movement therewith from a work receiving position to a position in axial alignment with said spindle, hydraulically actuated means operatively connected with said carriage for moving the chuck to and from the latter position, said chuck including a movable section hydraulically actuated means connected to said chuck section and operable to open and close said chuck, a manually operable fluid supply control means individual to each of said hydraulically actuated means, means rotatably driving said spindle, a lead screw rigidly connected to said spindle means releasably connectible with the lead screw thread to axially move the same and said spindle in one direction and advance the tool to the work, actuating means operatively connected to said last named means, and means hydraulically interconnected with each of said control means responsive to the operation of said actuating means to connect said releasably means with the lead screw, to establish a hydraulic interlock between said individual control means and retain said work holding chuck in fixed closed position and in aligned relation with the spindle during advancing movement of the tool.

2,660,739
MACHINE FOR USE IN MANUFACTURE OF SHOES
Herman A. Imhof, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 30, 1950, Serial No. 182,230
35 Claims. (Cl. 12—10.3)

3. A machine for use in the manufacture of shoes, having a main frame, devices for operating on a shoe provided with a pair of abutments acting to guide simultaneous operations progressively along the shoe at opposite sides of a center line running between the marginal portions of a shoe bottom, a pattern cam shaft in the main frame, a jack frame on the main frame, shoe supporting means on the jack frame including an arcuately guided pitch carriage rotatable about an axis passing through the points of engagement of the abutments on the shoe bottom to impart a lengthwise pitch to the shoe, and a feed carriage mounted on the pitch carriage for straight line movement lengthwise of the shoe, and size adjustable mechanism driven by the pattern cam shaft for actuating the feed carriage, in combination with separate mechanism driven by the pattern cam shaft for actuating the pitch carriage as the operation progresses in properly coordinated relation to the feed carriage regardless of the adjustment of the feed mechanism and an irreversible drive in the pitch mechanism to prevent reaction on the pattern cam shaft through the pitch mechanism as a result of engagement between the abutments and the shoe bottom.

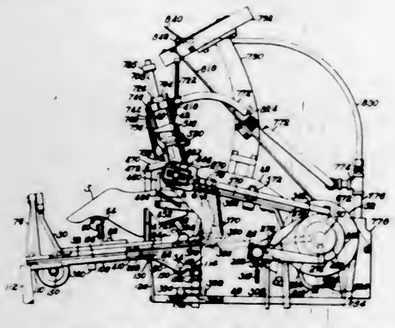


32. A shoe side lasting machine having a main frame, a shoe supporting jack on the frame, two sets of lasting devices for operating simultaneously along opposite sides of a shoe carried by the jack and provided with a ribbed insole, and shoe engaging abutments, supports upon which said devices are mounted movable toward and from each other and yielding means for spreading said supports to press the abutments against the inside of the insole rib as the shoe bottom varies in width along its length, in combination with mechanism for varying the movements of the supports for the lasting devices toward and from each other including a cam actuated lever, connections for actuating the yielding means, electrical contacts on the connections rendered operative when an abutment is disengaged from the rib on the insole and means for stopping the operation of the lasting devices when the contacts are actuated.

33. A machine for use in the manufacture of shoes having a main frame, a shoe supporting jack mounted for movement in the frame, two sets of devices arranged at opposite sides of a shoe supported upon the jack, mechanism for actuating said devices to operate progressively along both sides of the shoe, supports upon which said devices are mounted for independent turning movement about axes substantially perpendicular to the shoe bottom, a pattern cam

shaft and connections controlled by the pattern cam shaft to change the relative positions of said devices and jack during the operation on a shoe, in combination with two cams rotatable with the pattern cam shaft and mounted in side-by-side relation, three cam rolls actuated by the cams, and means for shifting the cams relatively to the cam rolls to cause one of the cams to act in one relation to the connections during operation on a right shoe and in another relation during operation on a left shoe, one of the cam rolls acting with either cam during operation on a right or a left shoe.

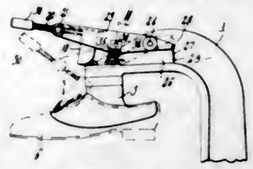
2,660,740
LASTING MACHINE
Charles A. Robinson, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 12, 1950, Serial No. 189,811
49 Claims. (Cl. 12—12.1)



3. A lasting machine having lasting devices arranged to operate on the opposite sides of a shoe, successively, in different locations as the shoe is fed along, relatively to said devices, a movable shoe support, feed mechanism for moving the support, intermittently, to feed the shoe and present different portions thereof, successively, to the action of said devices, power means for operating said devices and said feed mechanism, a rack bar associated with the shoe support and arranged to cooperate with the power means for discontinuing the movements of the support and the operation of said lasting devices, when the lasting operation has proceeded to a predetermined point along the bottom of a shoe mounted on said support, and means for adjusting said rack bar, relatively to said support, to accommodate shoes of different sizes and styles.

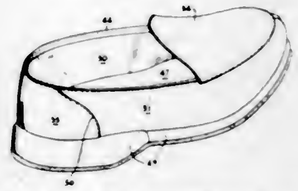
2,660,741
SHOE FORMING AND PRESSING MACHINE
Milton L. Dodge and Allen A. Dodge, Newburyport, Mass., assignors to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware
Application November 14, 1949, Serial No. 127,144
11 Claims. (Cl. 12—51)

1. The combination with a rigid inside form over which a shoe having a tongue and an eyelet stay may be placed, means engageable with the outside of the shoe for pressing the shoe upper against said inside form, of an element adapted to be interposed between the tongue of the shoe and said eyelet stay for the pressing operation to thereby prevent the eyelet stay from marking the tongue and means supporting said element for motion between operative interposed position and a retracted inoperative position where it offers no obstruction to the re-



moval and proper positioning of a shoe with respect to said form.

2,660,742
METHOD OF MAKING FORCE-LASTED SHOES WITH COUNTER-STIFFENED QUARTERS AND FULL-LENGTH STITCHED-IN SOCK LININGS
Jack Meltzer, Los Angeles, Calif.
Application October 24, 1951, Serial No. 252,905
1 Claim. (Cl. 12—142)



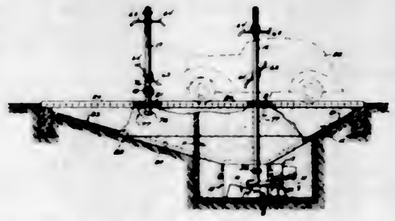
Those steps in the manufacture of a shoe or slipper having a full-length stitched-in sock lining, a platform sole and wrapper and a counter-stiffened quarter, which comprise: stitching a sock lining along its entire periphery to the lower edge of an upper providing a platform wrapper on said upper, stitching a counter-covering element to the upper but only along its bottom and top edges and along one side so as to form a pocket which is open along the unattached side, inserting a relatively stiff unflanged pre-molded counter sideways into said pocket, then stitching the unattached side of the counter-covering element to the upper to seal said counter within said pocket, and then force lasting the assembly and completing the sole structure of the shoe.

2,660,743
METHOD OF MAKING RIGIDIFIED SLIP-LASTED SHOES
Jack Meltzer, Los Angeles, Calif.
Application March 19, 1952, Serial No. 277,477
3 Claims. (Cl. 12—142)



1. In the process of making a slip-lasted shoe rigidified in at least one of its sharply curved end regions, the steps which consist in stitching a full-length sock lining to an upper throughout the full extent of the upper's lower edge, separately stitching the lower edge of a rigid counter of appropriate relatively sharp curvature to the lower margin of a counter cover and to the top edge of a platform wrapper, applying the counter to the exterior of the upper, securing the counter cover to the upper only along margins other than said lower margin so that the lower edge of the counter is left free of direct attachment to the lower edge of the upper, then force lasting the assembly and while it is on said last applying a platform and covering its edge with said platform wrapper.

2,660,744
MOTOR VEHICLE WASHING PELLET RECLAIMING APPARATUS
Jesse S. Cockrell, Norfolk, Va.
Application November 22, 1949, Serial No. 128,807
2 Claims. (Cl. 15—3)



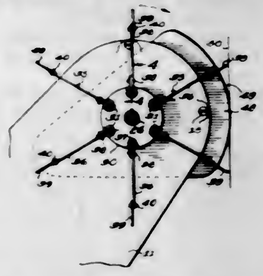
1. In an auto laundry, the combination which comprises a pair of spaced tracks positioned to receive wheels of a motor vehicle, a sump positioned below the tracks and having downwardly and inwardly sloping lower surfaces, a tank positioned to receive water and the like from the sloping lower surfaces of the sump by gravity, a coarse screen positioned across the upper end of the tank, a fine mesh screen having an upwardly extended conical-shaped section with an opening in the upper part thereof extended across the tank at a point midway between the upper and lower ends thereof and spaced from the coarse screen, an elbow connecting the opening in the upwardly extended conical-shaped section of the fine mesh screen to a venturi positioned outside of the tank, a relief connection extended from said elbow to a point outside of the tank, a valve on the end of said relief connection, positioned outside of the tank, spring actuated valve sections positioned in the opening in the upwardly extended section of the fine mesh screen, a pump positioned to draw water from the tank and discharge the water into the venturi, an inverted U-shaped yoke having spaced spray nozzle bases therein positioned over the tracks and positioned to connect to the venturi, an inverted U-shaped tube also having nozzle base elements therein spaced from the yoke and also positioned to spray water on the vehicles on the tracks, and a plurality of spray nozzle heads with arms extending outwardly from said spray nozzle bases journaled in the spray nozzle bases of the yoke.

2,660,745
OSCILLATING TOOTHBRUSH
Stanley Yusko, Danville, Va.
Application September 19, 1952, Serial No. 310,384
3 Claims. (Cl. 15—22)



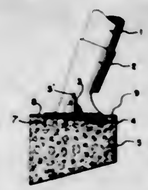
1. An oscillating toothbrush comprising an elongated brush head having a series of bristle tufts arranged longitudinally on one side thereof, a shank rigidly secured to said brush head, a tubular handle slidably receiving said shank, said shank being formed with a substantially helical slot extending therethrough, a transverse member secured in said handle and engaging slidably in said slot, a knob rotatably secured in the end of said handle, spring means in said handle biasing said shank away from said knob, and respective, opposing longitudinally extending abutment elements on said shank and knob, the knob being rotatable to bring said abutment elements at times into longitudinal alignment to prevent longitudinal movement of the shank in said handle.

2,660,746
POWER-DRIVEN CLEANING BRUSH
Arthur Ward, New York, N. Y., assignor to International Paint Company, Inc., New York, N. Y., a corporation of New York
Application July 2, 1948, Serial No. 36,755
6 Claims. (Cl. 15—141)



1. A rotary brush for cleaning ships' bottoms and the like comprising a rotary unit having shaft means for rotatably mounting same, spaced supporting members carried by said rotary unit and having their axes equidistantly spaced from the axis of rotation of said shaft means, and a plurality of cleaning units carried by each supporting member, each cleaning unit comprising a hard surface-engaging element spaced outwardly of the associated supporting member wholly independent of adjacent elements, and a flexible element connecting such surface-engaging element to the associated supporting member, said surface-engaging and flexible elements being relatively narrow measured in a direction lengthwise of said supporting members, said flexible elements being formed of strips of soft flexible elastic material and having a flexibility such that they are readily bendable under the influence of radially inwardly applied forces, whereby such surface-engaging elements are caused to follow normal rotational paths of movement by centrifugal force and are readily deflectable radially inwardly of such paths upon striking a surface to be cleaned.

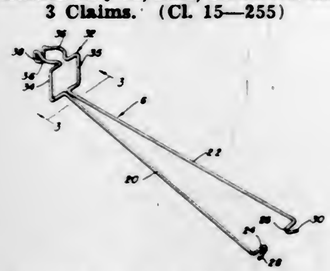
2,660,747
SPONGE CLEANING DEVICE
Sidney P. Vaughn, San Diego, Calif.
Application March 25, 1950, Serial No. 151,880
10 Claims. (Cl. 15—244)



9. A cleaning device, comprising an absorbent and compressible sponge cleaning element hav-

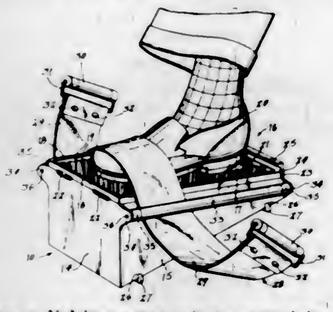
ing an attaching face, said attaching face having permanent grooves cut therein and extending longitudinally of the attaching face, said grooves being spaced inwardly from the edges of the sponge cleaning element for providing marginal edge faces, a plate provided near its longitudinal edges with downwardly extending continuous flanges extending throughout the major portion of the length of the attaching face and inserted within said grooves, said plate being secured to the attaching face by an adhesive, a flexible sheet extending over said plate and secured to the marginal edge faces by an adhesive, and handle attaching means secured to said plate.

2,660,748
WINDSHIELD WIPER TENSIONING ATTACHMENT
Rolland V. Gaumer, Zanesville, Ohio, assignor to Industrial Devices of America, Inc., Zanesville, Ohio, a corporation of Ohio
Application July 11, 1951, Serial No. 236,213
3 Claims. (Cl. 15—255)



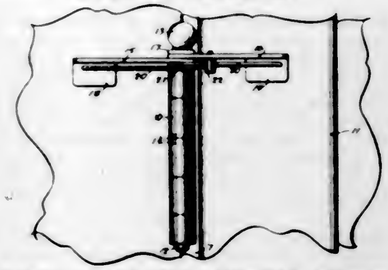
1. For annexation to a windshield wiper arm and coacting assembly, a tensioning attachment comprising a pair of duplicate normally spaced diverging resilient limbs terminating at corresponding tension exerting ends in oppositely directed attaching and retaining hooks, the opposite converging ends of said limbs having right angularly disposed two-part clamp means, said clamp means being provided with lateral spring means and said spring means having a lateral detent in spaced parallelism relative to said clamp means.

2,660,749
SHOE POLISHING APPARATUS
Carmen Agreda de Gonzalez, Caracas, Venezuela
Application August 16, 1951, Serial No. 242,093
1 Claim. (Cl. 15—266)



A shoe polishing apparatus comprising a one-piece molded box body having an open top defined by walls having top edges inclined toward one end of said body, a one-piece molded cover for said box body closing the open top and supported in an inclined position by the inclined top edges of the walls of said box body to have a shoe to be polished rested thereon, an integral shoe support on said cover at a location to be engaged by the heel of a shoe positioned centrally on said cover, and rollers supported along the sides of said box body at an inclination parallel to the inclination of said cover, said support for said rollers comprising pairs of brackets extended laterally from the sides of said box body, end aligned trunnions formed on the inner faces of each pair of said brackets and between which said rollers are positioned, and rods extended through end aligned holes formed in said rollers, said trunnions and said brackets rotatively supporting said rollers.

2,660,750
ADJUSTABLE DOORSTOP
Russell J. Wallen, Minneapolis, Minn.
Application February 27, 1952, Serial No. 273,617
4 Claims. (Cl. 16—49)



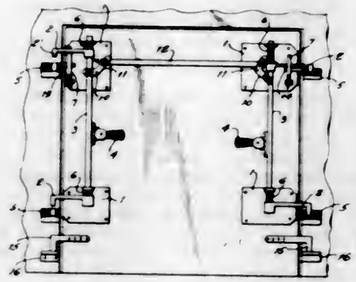
1. A stop of the class described, including a pair of wings having overlapping portions provided with aligned holes through which the pintle of a hinge attaching a door to a support may be inserted, said wings being constructed and arranged the one to engage the support as a base of resistance and the other wing being held for movement with the door, and stop means for limiting the movement of the last noted wing by the opening of the door to stop said door in a predetermined open position, said stop means being adjustable to vary the stopped open position of the door.

2,660,751
CUSHIONING BUMPER
Douglass R. Falkenberg, Lakewood, Ohio
Application March 3, 1950, Serial No. 147,369
4 Claims. (Cl. 16—122)



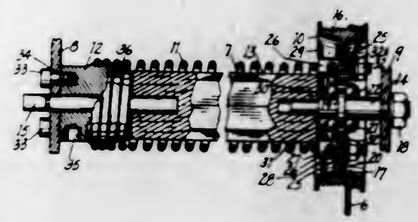
1. In a pull-weight for a drapery and other like cord-operated mechanism formed for swinging suspension and having a heavyweight bulbous body, the improvement comprising a lightweight relatively thin resilient shell enclosing said body, the lower portion of said shell being divided into an inner skirt portion and an outer flexible skirt portion spaced from said inner skirt portion, said inner skirt portion embracing and fitting over the lower end of the body and said outer flexible skirt portion serving as a bumper for the pull-weight.

2,660,752
COMBINED HINGE AND LATCH FOR DOORS
Juan Juncadella Carcereny, San Vicens dels Horts, Spain
Application August 27, 1949, Serial No. 112,728
Claims priority, application Spain August 27, 1948
1 Claim. (Cl. 16—147)



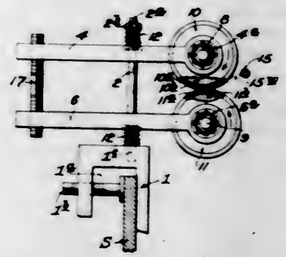
A combined hinge and latch arrangement for a door and a door frame including two units adapted to be mounted on opposite vertical edges of the door, each unit comprising in combination, a vertical actuating rod adapted to be mounted on the door near one vertical edge slidable between a raised position and a lowered position; two spaced hinge means rigidly secured at one end thereof to said actuating rod and adapted to project with the other end thereof beyond one vertical edge of the door, and having on said other end a downwardly extending pin; two spaced hinge sleeves adapted to be secured to the door frame aligned with said pins so that in said lowered position of said actuating rod said pins are inserted into the respective hinge sleeves, and in said raised position of the actuating rod said pins are disengaged from said hinge sleeves; spring means urging said actuating rods downwardly to said lower position thereof, two manually operated means, each manually operated means engaging one of said actuating rods for raising the same against the action of said spring means to said raised position thereof; cross bar means pivotally engaging with one end thereof one of said actuating rods and with the other end thereof the other of said actuating rods and forcing each actuating rod to said lower position thereof when the other actuating rod is raised by said manually operated means to said raised position thereof; catch means adapted to be pivotally mounted on the door tiltable between an engaging position engaging one of said hinge means in said raised position of said actuating rod for holding the same in said raised position, and a releasing position releasing said hinge means permitting return of the respective actuating rod to the lower position thereof; leaf spring means urging said catch means into engaging position; releasing means engaging said catch means for tilting the same into said releasing position thereof when said pins are aligned with said hinge sleeves; two supporting means having a horizontal supporting surface each adapted to be mounted on the door frame adjacent to one vertical edge of the door; and two supporting members adapted to be mounted on the door projecting over the vertical edges of the same, each supporting member located above one of said supporting means and abutting on the horizontal surface thereof so as to support the door for pivoting movement when said pins and said hinge sleeves are aligned.

2,660,753
COUNTERBALANCE FOR VERTICALLY SLIDING DOORS
Charles C. Moler, Hartford City, Ind., assignor to Overhead Door Corporation, Hartford City, Ind.
Application March 8, 1951, Serial No. 214,575
7 Claims. (Cl. 16—198)



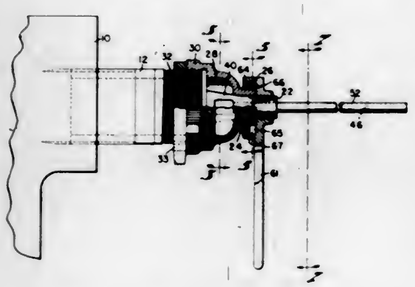
6. Counterbalance structure for a vertically movable door having a supporting cable attached thereto comprising, a pair of brackets fixedly supported above said door, pins projecting inwardly from said brackets, a spring supporting core supported between and aligning the inner ends of said pins, an anchor block rotatably adjustably mounted on one of said pins, a drum rotatably mounted on the other of said pins and adapted to be connected to said cable to wind up the same, a coil spring sleeved around said core and having one end connected to said block, and means connected to the other end of said spring for drivingly connecting said drum to said spring.

2,660,754
CRAYFISH PICKING MACHINE
Frank O. Roshko, New Orleans, La.
Application August 20, 1951, Serial No. 242,736
4 Claims. (Cl. 17—2)



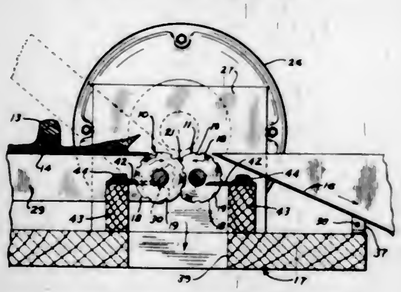
1. A crayfish picking machine for separating the meat from the hulls thereof comprising, a frame having an upper and a lower roller-mounting member; upper and lower parallel horizontally disposed rollers mounted one substantially vertically above the other on said members; adjustable tensioning means between said mounting members yieldably urging said members and associated rollers together to form a crotch between said rollers; drive means operatively connected with both rollers for positively rotating said rollers in opposite directions at a uniform rate; and water jet spraying means in front of the crotch substantially parallel with the lower forward peripheral portion of the upper roller and having jet openings directed toward the peripheral portion of said upper roller between said spraying means and said crotch.

2,660,755
STUFFER VALVE
Frederick A. Zaenkert, Greenhills, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application March 4, 1952, Serial No. 274,700
8 Claims. (Cl. 17—41)



1. A stuffer valve comprising a body portion having an inlet port and an axially aligned conical valve seat including a lateral port in open communication with the inlet port, a valve stem including a conical plug having a large and a small end and having a first port extending radially thereof and a second port disposed axially thereof and extending forwardly of and through that end of the plug remote from its larger end and in open communication with its first port, and means engaging the stem beyond the smaller end of the conical plug and journaled on said body portion for rotating said stem for moving its said first port into and out of communication with the lateral port of the valve seat.

2,660,756
METHOD OF REMOVING POULTRY GIZZARD LININGS
Merritt I. Darrow, Chicago, Guy R. Biddinger, Bellwood, and William J. Patterson, La Grange, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
Original application December 12, 1949, Serial No. 132,638, now Patent No. 2,620,510, dated December 9, 1952. Divided and this application March 13, 1952, Serial No. 276,384
3 Claims. (Cl. 17—45)



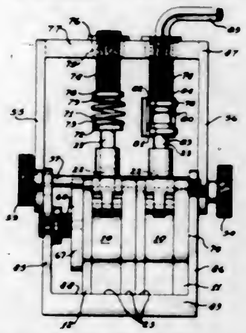
2. The method of removing the lining from opened poultry gizzards including the steps of pinching the lining at spaced, linearly placed points therealong to grasp the lining, and separating said lining from the gizzard while stretching the lining intermediate said points in a direction generally normal to the line of said linearly placed points to corrugate the lining.

2,660,757
METHOD AND APPARATUS FOR PRODUCING TEXTURED FILMS
Leland H. Smith and Frank M. Smith, Grenville, N. Y.
Application November 2, 1950, Serial No. 193,639
10 Claims. (Cl. 18—19)



2. Apparatus for providing continuous smooth, homogeneous, plastic film with a three-dimensional, two-sided, textured finish comprising: an endless, foraminous member having a textured surface; means for advancing said member with a film of plastic in contact therewith; vacuum means to draw said film into conformity with the texture of said surface; means to heat the film to the temperature of plasticity while thus conformed; means to cool the film while still thus conformed and means to separate the film from said member.

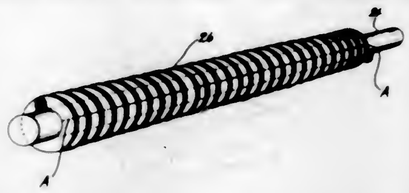
2,660,758
INJECTION FLASK APPARATUS
Anthony J. Hennike, Gordon Morris, and Elza E. Broady, Phoenix, Ariz.
Application June 14, 1952, Serial No. 293,602
2 Claims. (Cl. 18—33)



1. An injection flask structure including a base plate, an injection flask supported on said base plate, an injection plunger in top of said flask above said base plate, upright standards each side of base plate, clamp means operable in a direction parallel to said base plate for clamping the sides of said injection flask, tie bar means interconnecting the upper ends of said standards directly above said flask, and a yoke member pivotally mounted on the upper ends of said upright standards including pressure screw means, and resilient spring means interconnected between said pressure screw means and the top of said injection plunger.

2,660,759
METHOD OF MAKING GROMMETS
Raymond C. Davis and John T. Marvin, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 9, 1949, Serial No. 98,036
1 Claim. (Cl. 18—47.5)

In a method of making a resilient, rubber-like grommet, the steps of: extruding vulcanizable, rubber-like material into the desired cross sectional shape, winding the extruded material upon a mandrel of the desired diameter so that each adjacent turn of the extruded material is in contact with the next turn thereof, curing the extruded stock upon the mandrel for vulcanizing the same into a resilient tubular structure and simultaneously superficially bonding together

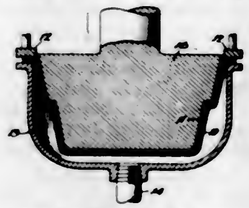


adjacent contacting turns of said helix, slitting the cylindrical structure longitudinally of the mandrel, removing the stock from the mandrel in a split tubular form, and finally peeling off a single grommet from the tube adjacent the contacting portion of the next adjacent grommet by breaking said superficial bond.

2,660,760
METHOD OF PLASTER MOLDING RUBBER ARTICLES
James C. Moore, Ravenna, Ohio, assignor to The Oak Rubber Company, Ravenna, Ohio, a corporation of Ohio
No Drawing. Application June 12, 1951, Serial No. 231,257
4 Claims. (Cl. 18—47.5)

1. The method of forming in a plaster mold an article of rubber or the like having an irregular surface, which comprises making a plaster of Paris and water mixture containing a coloring material which permeates the mixture, forming a mold of said mixture comprising finely divided constituent powder loosely adhering to its surface, preparing a liquid rubber mixture containing a coloring material contrasting with the color of the plaster mold, drying said rubber mixture to coagulate it in a layer adjacent the internal walls of the mold, curing the coagulated rubber and removing from the more exposed surfaces of the article the adhering powder, whereby an article of two contrasting colors is produced.

2,660,761
METHOD FOR RECRYSTALLIZING OR RESTABILIZING ORIENTED AMORPHOUS RUBBER HYDROCHLORIDE FILM
Leo Peters, Evanston, Ill.
Application January 16, 1951, Serial No. 206,305
9 Claims. (Cl. 18—56)



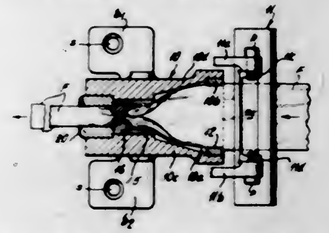
1. In a process for forming a permanent recess in a rubber hydrochloride film, the steps of stretching the film while in an amorphous state to provide a recess, and bringing into contact with the stretched film a heat conductor maintained at a temperature of about 140 to 160° F. for setting the film in said stretched condition.

2,660,762
METHOD OF MAKING DIPPED LATEX GARMENT
Stig E. Rosenberg, Brockton, Mass.
Application October 6, 1951, Serial No. 250,078
5 Claims. (Cl. 18—58.7)



1. The method of making a latex garment, which comprises immersing in prepared latex a flat-sided form suspended by supporting means projecting from the edge of the form, whereby an envelope of latex is deposited on the entire surface of the form, slitting said envelope at a portion of its periphery opposite to said supporting means, stripping the envelope from the form and making reentrant curved cuts in the margin of the envelope where the envelope was slit and where said supporting means was located, said cuts resulting in the formation of required openings in the garment.

2,660,763
METHOD AND APPARATUS FOR APPLYING LIQUIDS TO FIBERS
Robert D. Robinson, Uxbridge, Mass., and Raynaldo P. Jacques, Woonsocket, R. I., assignors to Bachmann Uxbridge Worsted Co., Inc., Uxbridge, Mass., a corporation of Massachusetts
Application October 20, 1949, Serial No. 122,398
7 Claims. (Cl. 19—66)

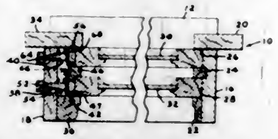


1. Apparatus for applying liquids to fibrous webs and the like comprising a chamber having an inlet slot and an extended outlet passage, means extending into the chamber for discharging a spray of liquid on a web of fibers moving through said chamber, and a member removably mounted in said outlet passage and defining an outlet port having its greater dimension in a plane substantially at right angles to the plane of said entrance slot.

2,660,764
WINDOW FRAME
Robert E. Lee, Endicott, N. Y.
Application April 17, 1952, Serial No. 282,835
2 Claims. (Cl. 20—12)

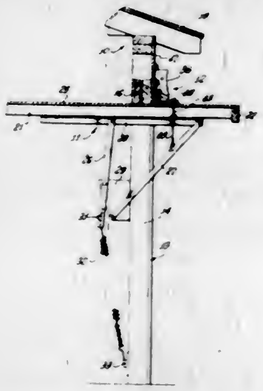
1. A window including a frame having a pair of spaced vertical stiles, spaced stops carried by the stiles, a parting strip carried by one of the stiles to form separate sash receiving channels on one side of the frame, shoes carried by the other stile to move between the stops carried thereby, a flange carried by one of the shoes and

projecting perpendicularly therefrom to form a parting strip which cooperates with the stops on the second stile in defining sash receiving channels, sashes mounted in the channels to move vertically in the frame, and means disposed between the shoes and the second stile for urging



the shoes against the sashes under adjustable yielding pressure, said means comprising cone shaped coil springs, flat head screws within said springs and extending through the shoes, the adjacent stile and the stops on the side of the stiles remote from the shoes.

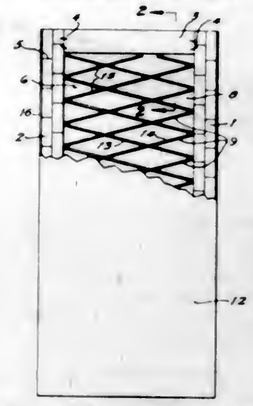
2,660,765
DOOR LATCH
Boyd N. Carlson, El Monte, Calif.
Application January 13, 1950, Serial No. 138,313
11 Claims. (Cl. 20—16)



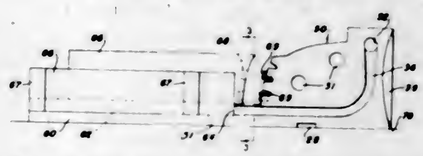
1. In an overhead swinging door construction, a frame forming a doorway, a door formed with an aperture and pivotally mounted in said doorway for pivotal movement between vertical closed and horizontal raised positions, a pivoted latch mounted on said frame above said doorway, a hook fixed to the forward face of said door at a position to move into overlying engagement with and to be supported by said latch with said door in its raised position, and release means carried by said door to pivot said latch to release said hook and including a cord hanging downwardly through the aperture in said door with said door in its raised position.

2,660,766
DOOR CONSTRUCTION
John C. Petterson, Altadena, Calif.
Application May 23, 1949, Serial No. 94,780
2 Claims. (Cl. 20—35)

1. A hollow core flush door of the type having two opposite sides of plywood panels, a frame formed of parallel stiles connected by a top rail and a bottom rail, with a multicellular construction between the panels inside of the frame; in which the multicellular construction forms a lattice-truss core and is composed of identical ribs each a straight strip of uniform width and thickness with one notch in one edge and a similar laterally spaced notch in the opposite edge, the width of each notch being sufficiently great in proportion to the thickness of the strip to permit each of the strips when assembled as a truss to make a chosen angle with horizontal down to as little as fifteen degrees, thus forming horizontally positioned lozenge-shaped quadrilateral cells about four times as wide as high, the notch intersections providing free access of air to all of the cells, thus avoiding the necessity for perforations in the strips between the intersections, while presenting all edges of the strips in planes corresponding to the inside surfaces of the two panels.



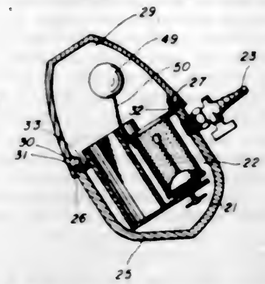
2,660,767
SIPING TIRE AND APPARATUS THEREFOR
James C. Heintz, Lakewood, Ohio; The Cleveland Trust Company, executor of the said James C. Heintz, deceased
Application September 21, 1951, Serial No. 247,727
4 Claims. (Cl. 22—9)



1. Equipment for siping the tread-forming element of a tire mold, which includes a base member with a horizontal surface thereon, guide members fastened to the base member and a sliding member therebetween whereby the sliding member may be slid back and forth horizontally over the horizontal surface, one end of the sliding member being adapted to be slid to a position beyond the edge of the base member, said edge of the base member being an arc with its center off the base member in the direction in which the sliding member is slid to bring its end beyond the edge of the base member as aforesaid, and a sipe-shaped slit extending horizontally into said end of the sliding member adapted to hold a sipe.

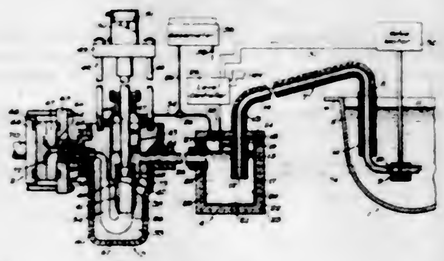
2,660,768
MEANS FOR FORMING MOLDS
Roy E. Barr, Childress, Tex.
Application December 2, 1949, Serial No. 130,721
7 Claims. (Cl. 22—35)

2. A molding device for forming a mold of an article including, a housing formed of a pair of sections joined in pressure tight relation, a partition between the sections, a plurality of receptacles carried by the partition for receiving the



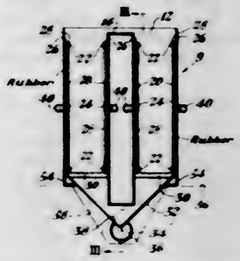
ingredients of a molding composition, and means for securing a molding flask to the partition in open communication with said receptacles.

2,660,769
DIE CASTING
Foster C. Bennett, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application December 18, 1950, Serial No. 201,360
1 Claim. (Cl. 22—70)



In a die casting apparatus for making a succession of castings by delivering shots of molten metal to casting dies, the combination of a one piece elongated body member having its long axis vertically disposed, said body member having wholly therein and enclosed thereby a vertically disposed well having a volume at least sufficient to hold a charge of molten metal for a casting; a shot cylinder vertically disposed in and enclosed by the body member; a gooseneck in the body member having its lower end in communication with the bottom of the shot cylinder and its upper end in communication with the dies, said upper end being above the top of the shot cylinder; a piston operable in the shot cylinder to displace molten metal through the gooseneck into the dies, said upper end of the shot cylinder projecting through the bottom of the well a distance at least as great as the length of the piston and having a port in the side of the cylinder forming a passageway between the bottom of the well and the inside of the shot cylinder when the piston is retracted; a molten metal reservoir adjacent to the body member, said reservoir having its working level above the top of the shot cylinder; conduit means connecting the well with the reservoir adapted to supply molten metal to the well at the same level as that in the reservoir; a melting pot for melting and holding a supply of molten metal to be cast, said melting pot having its working level above that of the reservoir; a pipe means adapted to convey molten metal from the melting pot to the reservoir; a valve in the pipe means within the melting pot; and level detecting means responsive to the level of molten metal in the reservoir, said level detecting means being adapted to operate the said valve to release molten metal from the melting pot through the said pipe means to maintain molten metal in the reservoir at a level to fill the well to a depth above the top of the shot cylinder.

2,660,770
CASTING APPARATUS
Ralph P. Davis, Squantum, Mass., assignor to Walworth Company, Boston, Mass., a corporation of Massachusetts
Application September 6, 1950, Serial No. 183,363
10 Claims. (Cl. 22—90)



1. Casting apparatus for a shell-type mold, comprising a casing having an area adapted to contain the mold, said casing having a depth defined by opposite side walls adapted to be spaced from the mold, a pair of flexible liners extending across said opposite walls and forming therewith a pair of closed chambers within said casing, granular material contained between said spaced mold and opposite side walls, and means for admitting fluid under pressure to said chambers to distend said liners relative to said opposite walls, said liners being thereby cooperable with said granular material and adapted to compress the mold sufficiently to withstand the static pressure of casting material during the casting operation.

2,660,771
CORSAGE SUPPORT
Dominic A. Zarlengo, Denver, Colo.
Application August 28, 1950, Serial No. 181,780
1 Claim. (Cl. 24—5)



A corsage support for strapless evening gowns comprising: an elongated, resilient, rod-like shank portion; a relatively large, substantially closed loop formed on the lower portion of said

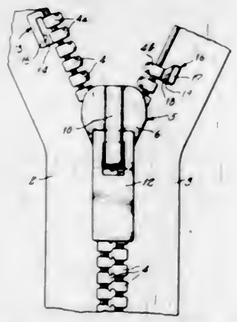
shank portion and adapted to encircle the breast of a wearer, the plane of said loop being arcuately curved to conform to the chest curvature of the wearer, said shank portion extending upwardly from said loop and being rearwardly inclined from the plane of said loop; two adjacent, relatively smaller loops formed on the upper extremity of said shank portion, said loops lying substantially flat together to form resilient clamping jaws; and a hooked extremity on one of said smaller loops encircling said shank portion and acting to maintain said smaller loops together so that the stem of a corsage may be wedged therebetween.

2,660,772
HOLDER FOR FABRIC, NAMELY DIAPERS
Earl V. Ehrhardt, Altadena, Calif.
Application April 9, 1949, Serial No. 86,435
7 Claims. (Cl. 24—85)



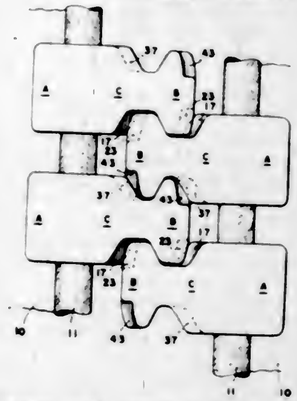
1. A holder comprising a unitary wire guarded device having a supporting portion, a pin angularly extending from one end of said supporting portion, the other end of said supporting portion having a coil spring remote from said pin and a guard extending from said spring to said pin, said guard having portions spaced inwardly and outwardly respectively from the point of said pin when said guard is unflexed by said spring, said spring supporting said guard for movement of said guard along said pin in opposite directions beyond the point of said pin to expose the point of said pin when said guard is flexed in either direction along said pin, and a holder fixed to said supporting portion.

2,660,773
STOP FOR SLIDE FASTENERS
Leonard M. Dorman, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application March 7, 1951, Serial No. 214,298
7 Claims. (Cl. 24—205.11)



1. In a slide fastener of the class described, including a pair of stringers having a series of spaced-apart interlocking fastener elements arranged along the opposed edges thereof, and a slider for engaging and disengaging the fastener elements having spaced-apart wing portions connected by a neck portion and marginal flanges so as to define an interior diverging channel, a stop member normally adapted to prevent movement of the slider along the fastener elements in a closing direction, said stop comprising an abutment member carried by one of said stringers having wedging means arranged on the inner side thereof engageable with the outside surface of the flanges adjacent the converging portion of said slider, said wedging means being spaced from the outer ends of said fastener elements a distance slightly greater than the thickness of said flanges, and cooperable with said converging portion for preventing unintentional closing movement of said slider, said wedging means adapted to be forced between said flanges at said converging portion when the abutment member is positioned adjacent said converging portion so as to spread slightly the wings of said slider when the slider is subjected to an excessive pulling force in the closing direction so that the slider is permitted to pass to a position therebeyond whereby the fastener elements may be disengaged by subjecting the stringers to a tearing action.

2,660,774
SLIDE FASTENER
Heinrich Heimann, New York, and Ira Shur, Floral Park, N. Y., assignors to Waldes Kohinoor, Inc., Long Island City, N. Y., a corporation of New York
Application March 20, 1951, Serial No. 216,598
3 Claims. (Cl. 24—205.13)



1. A plastic slide fastener comprising rows of oppositely disposed and individually reversible fastener elements having substantially rectangular block formation and being affixed at their one ends to their carrying tapes, the other coupling ends of said elements being provided in their opposite side faces with substantially U-shaped recesses extending the full depth thereof and which result in said coupling ends having the form of a T whose cross arms have length and thickness corresponding to the depth and width of said elements, the side face recesses of the elements each having a corresponding side wall stepped to provide a horizontal surface disposed in the plane of the tapes, the stepping of the side wall of one side-face recess of an element being opposite to that of the side wall of the other side-face recess, whereby one horizontal surface faces towards the front face of the element and the other towards the element rear face, and the coupling ends being each provided at their end-face corners with recesses defined in part by horizontal surfaces disposed in the plane of the tapes, said corner recesses being oppositely disposed both to one another so that one opens towards the front face and the other towards the rear face of the element, and to the direction in which the horizontal surface of the side-face recess on the same side of the element faces, the construction and arrangement being such that the coupling ends of the elements of one row thereof having interfitting engagement in the side-face recesses of two adjacent elements of the opposite row throughout the depth of said recesses, and the horizontal surfaces of the corner recesses of each coupling end are adapted to abut the oppositely facing horizontal recess surfaces of the two adjacent oppositely disposed elements.

2,660,775
FASTENING DEVICE
Piotr Bielkowicz, London, England, assignor to Zbyslaw M. Ciolkosz, Swarthmore, Pa.
Application August 30, 1949, Serial No. 113,219
4 Claims. (Cl. 24—221)



3. A fastening device for securing two parts together comprising a stud mounted in an opening in one of said parts to be secured together, having freedom of axial and rotary motion therewith and having a head portion adapted to bear thereagainst, retaining means secured to the other of said parts to be secured together, and opposed resilient elements adapted to be retained by said retaining means, said resilient elements comprising a pair of arcuately formed spring abutments disposed with the end portions of the arcuate formations spaced apart from each other and longitudinally rigidly positioned by said retaining means, and with the center portions of the arcuate formations curved toward each other and rising away from said parts to be secured together, and said stud having a shank portion having recesses for engagement with said resilient elements.

2,660,776
FLEXIBLE MOLD FOR FORMING STATUES WITH SPACED LEGS
John H. Miller, La Grange, Mo.
Application December 1, 1950, Serial No. 198,631
4 Claims. (Cl. 25—118)



1. In a flexible mold structure, a hollow mold formed of resilient material adapted to form a statue with legs in spaced relation, the leg portions of said mold being open to receive molding liquid when the mold is inverted, said mold having separate wall portions extending between the legs of said mold and releasably held together, said walls between the legs of said mold being separable after the forming of the statue to enlarge said end of the mold to permit the removal of the statue therethrough.

2,660,777
SEPARABLE SHIELD FOR ROSETTE MAKING MACHINES
Rose Cruz, New York, N. Y.
Application March 31, 1952, Serial No. 279,637
2 Claims. (Cl. 28—15)



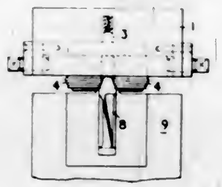
1. In a rosette forming machine provided with a plurality of spaced retractable radial pin members, a separable shield member adapted to cover the underside of said spaced radial pin members when said pin members are extended and a plurality of threads are disposed upon said pin members; said shield member being provided with a plurality of spaced radial grooves upon the undersurface thereof and a hole in the center thereof.

2,660,778
METHOD FOR REPAIRING BELL HOUSING ASSEMBLIES
Theodore C. Gerner, Oklahoma City, Okla.
Application September 18, 1950, Serial No. 185,477
2 Claims. (Cl. 29—148)



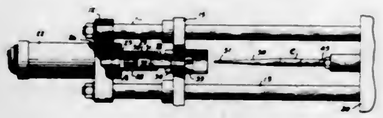
1. The method of renewing the swivelling spherical bearing engagement between the concave bearing surface in the rear outlet end of an automobile transmission case and the complementary convex bearing surface of its bell housing, wherein the concave bearing surface in the rear outlet end has become worn, which comprises; removing the bell housing, inserting a member between the worn concave bearing surface of the rear outlet end and the convex bearing surface of the bell housing, said member having an outer convex bearing surface substantially corresponding to the worn concave surface to engage the latter, said member also having a new rigid non-yielding concave spherical bearing surface to engage the bell housing and of a radius of curvature corresponding to the desired or unworn concave bearing surface of the rear outlet end, seating the convex bell housing surface in the concave bearing surface of said member and securing together the bell housing, the member and the rear outlet end into assembled relation, the convex and concave bearing surfaces of said member being axially displaced from each other, whereby the said member will displace the bell housing rearwardly and axially from the rear outlet end and displace the sliding engagement of the bell housing upon the propeller shaft housing axially and rearwardly thereof to provide a new bearing surface for said sliding engagement.

2,660,779
METHOD OF FORMING BLADE ROOTS
Joseph Atkinson, London, England
Application January 13, 1949, Serial No. 70,723
Claims priority, application Great Britain January 15, 1948
3 Claims. (Cl. 29—156.8)



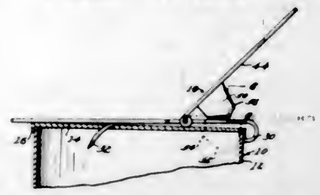
1. A method of forming root portions of a plurality of blades for turbines and similarly bladed fluid-flow machines, comprising rigidly securing said plurality of blades with respect to one another with root ends aligned for movement in a direction normal to the length of the blades, moving said plurality of blades between a plurality of pairs of spaced similar contour-forming rollers located at spaced stations along the line of movement of said blade roots, said pairs of rollers having smaller spacing between successive pairs, whereby the plurality of blade roots are progressively reduced to contour as they pass between successive decreased spaces between said rollers.

2,660,780
APPARATUS FOR ASSEMBLING AN ELASTIC TUBULAR RUBBER INSERT UNDER RADIAL COMPRESSION BETWEEN AN OUTER RIGID TUBE AND AN INNER RIGID CORE
Howard G. Beck, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application November 26, 1948, Serial No. 62,002
9 Claims. (Cl. 29—235)



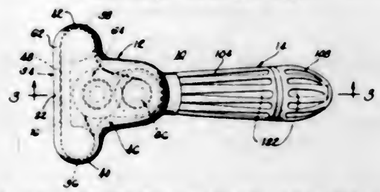
1. Apparatus for assembling an elastic tubular rubber insert within an outer rigid tube and around an inner rigid core comprising a support, an open ended funnel shaped guide carried by said support, means for clamping an insert receiving tube to the small end of said funnel in axial alinement therewith, a plunger on the side of said support toward which the large end of said funnel faces for forcing an insert through the funnel and into said tube, said plunger being axially alined with said funnel and movable axially into and out of insert engaging position, a second plunger axially alined with the first and on the opposite side of said support, said second plunger being movable toward said tube to force a core into an insert within the tube, means for reciprocating said first plunger, means controlled by said first plunger during its movement away from said insert for reciprocating the second plunger, and means for limiting the axial movement of the insert in the tube toward said first plunger.

2,660,781
CAN-OPENING AND POURING SPOUT-FORMING DEVICE
Gilbert A. Harms, Coffee Creek, Mont.
Application August 18, 1950, Serial No. 180,288
1 Claim. (Cl. 30—6.1)



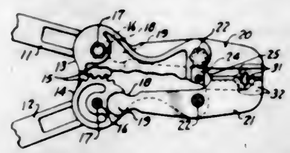
In a can top punch device, a first member arranged to be engaged across the can top, said first member having a stationary depending punch intermediate its ends for punching a vent hole in a central part of the can top as said first member is pressed downwardly on the can top, said first member having one end formed with downturned hook means arranged to be hooked around the rim of the can top as said first member is applied to the can top and said punch is pressed through the can top, said one end of said first member being formed with a longitudinal slot extending through said hook means from a point adjacent to and spaced from said one end of said first member, and a second member hinged on a transverse axis to said first member at a point intermediate said punch and said hook means, said second member being arranged to be swung downwardly in the direction of said hook means from an upwardly inclined inoperative position relative to said first member to a depressed operative position upon said first member, said second member having a depending cutter arranged to pass downwardly through said slot as said second member is swung downwardly from inoperative position for cutting a slot in the can top and forming a closure therefor, said cutter having an edge sufficiently remote from the hinge axis of said second member positioned to engage the can rim and bulge the can rim at an end of the slot formed in the can top to deform the can rim and form a pouring spout.

2,660,782
RAZOR
John N. Graef, West Bend, Wis.
Application June 1, 1949, Serial No. 96,424
9 Claims. (Cl. 30—40)



1. A razor including a shaving head having a chamber, a ribbon type blade in said chamber and movable past a shaving portion where it is exposed for use, said head including a handle receiving aperture having an internally threaded portion, blade moving means in said chamber including a downwardly facing crown gear open to said aperture, and a handle having an externally threaded portion adapted to be secured to the threaded portion of said aperture and including manually rotatable bevel gear adapted to mesh with said crown gear when the handle is secured to said head.

2,660,783
PERIPHERAL CUTTER FOR MULTILAYER CABLES
Donald K. Davis, Winona, Minn., and Rudolph K. Rauh, Milwaukee, Wis., assignors to Interstate Drop Forge Company, Milwaukee, Wis., a corporation of Wisconsin
Application April 22, 1953, Serial No. 350,394
4 Claims. (Cl. 30—91)



1. A peripheral cutter for a cable having a central bore of one metal and an exterior layer composed of strands of a different metal, said cutter having two opposed pairs of oppositely and angularly directed shearing edges, said edges when open defining a generally rectilinear opening having an open corner through which a cable to be peripherally cut can be inserted, each pair of said edges being arranged to define a V-notch, the apexes of said notches being cut away and forming recesses, said recesses being co-incidental when said pairs of edges are closed together.

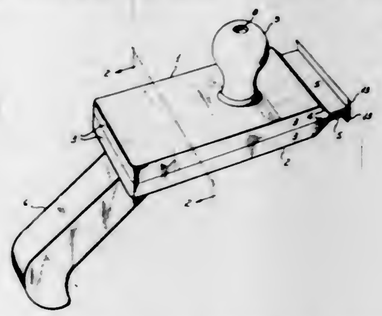
2,660,784
MEASURING SCOOP WITH EJECTION MECHANISM
Arnold O. Greene, Austin, Minn.
Application March 1, 1952, Serial No. 274,443
5 Claims. (Cl. 30—115)



1. An ingredient measuring scoop assembly comprising a pair of elongated lever elements, one forming a handle and having an open topped measuring element with upstanding side walls of outwardly progressively increasing depth defining a generally wedge shaped measuring chamber, the other lever having an ejection element fixed thereto and shiftably mounted into and out of said measuring chamber with the outer periphery thereof closely associated with the inner side wall surface of said chamber, said two levers being hingedly interconnected to overlap one over the other and one of said levers having means cooperatively associated therewith permitting the ejection element to be forcibly projected upwardly out of said measuring chamber.

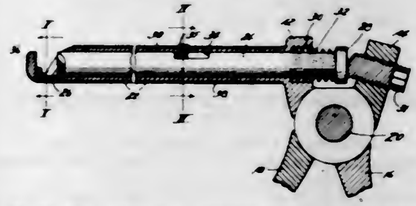
2,660,785
WOOD SCRAPER
Saul Shaler, Jackson Heights, N. Y.
Application February 17, 1949, Serial No. 76,988
4 Claims. (Cl. 30—172)

4. A wood scraper comprising: a pair of sheet metal sections having, along their lateral edges and across their rear ends, marginal walls arranged in edge abutting relation to form a hollow body, the forward ends of the sections being provided with inclined converging walls terminating in parallel spaced apart clamping jaws, a cutter of I-beam cross section having a web and two sharp edged cutting flanges at each of the opposite sides of said web, said cutter being positioned with said web between said jaws with two of said cutting flanges within the interior of the hollow body and the other two of said cutting



flanges externally of the hollow body and with the forward ends of the jaws abutting the external cutting flanges and the interior cutting flanges engaging the inclined converging walls of said sections.

2,660,786
OFFSET CUTTING PLIERS
Jack Loyd, Joplin, Mo., assignor of one-half to Alvie S. Morningstar, Joplin, Mo.
Application May 1, 1950, Serial No. 159,280
1 Claim. (Cl. 30—182)



A wire cutting tool comprising pliers having a pair of relatively movable pivoted jaws, one of said jaws having a transversely extending tubular member fixed thereto and provided at its outer end portion with an anvil of less diameter than the diameter of said tubular member and concentric therewith, a plunger extending through said tubular member to a point between said jaws and provided at its inner end with a head and at its outer end with a chisel cutting edge, a spring positioned on said plunger to normally urge said cutting edge away from said anvil, a notch formed in said tubular member adjacent said anvil to receive a wire between said anvil and said cutting edge, an adjustment screw mounted in the other of said jaws adapted to contact the head of said plunger whereby when said pliers are manually operated said cutting edge will be forced toward said anvil whereby the wire positioned therebetween will be severed.

2,660,787
SEAM RIPPING DEVICE
Allen J. Parker and Leo M. Murray, West Palm Beach, Fla.
Application April 19, 1951, Serial No. 221,888
1 Claim. (Cl. 30—265)

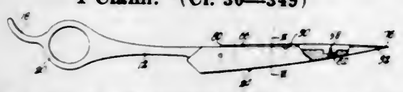
A seam ripping tool embodying a head portion formed with flat parallel and spaced apart walls connected at one edge, the forward edge formed open and notched intermediate its length,

a pair of bevelled rotary cutter wheels supported in the head in overlapping relation with their joint cutting edges exposed through the notch, a guide device for overriding engagement with the cross threads of the seam, consisting of a U-shaped flexible spring wire anchored between the walls of the head, with one leg of the wire extending through the open edge of the head and bent to form a rounded guide finger with its terminal end anchored in the head, the opposite leg of the wire extended through the open edge of the head and bent to form a rounded flexible guide finger that



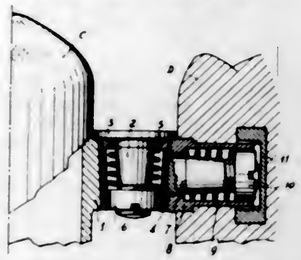
normally flexibly contacts the first named finger, the fingers at their line of contact being in a direct line of cutting action of the rotary cutters, the cutters and fingers being in the same vertical plane for shifting movement along the seam to be ripped, the fingers adapted to traverse the seam by overriding and underriding simultaneously the threads of the seam and maintaining an advanced flexible contact with the threads throughout the ripping of the seam, the fingers guiding the rotary cutter wheels in an accurate path of cutting action to the threads.

2,660,788
SCISSORS WITH REMOVABLE BLADE SECTIONS
Milton L. Cobb, Kansas City, Mo.
Application August 10, 1950, Serial No. 178,635
1 Claim. (Cl. 30—349)



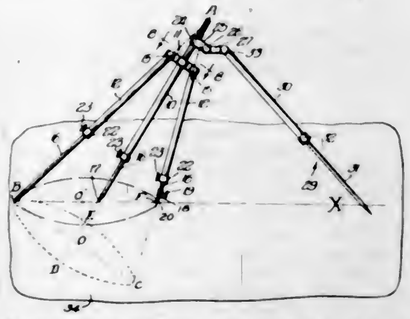
In a cutting instrument, an elongated shank having a transversely concave innermost face and a transversely convex outermost face, said faces converging as one longitudinal edge of the shank is approached, there being a longitudinal groove in said one edge of the shank, said groove being substantially rectangular shaped in cross-section and presenting a bottom wall and a pair of opposed side walls sloping toward said convex face at an angle to the transverse axis of the shank, said bottom wall being provided with a number of polygonal recesses, the shank having an opening therein for each recess extending from the latter to the opposite longitudinal edge of the shank, said openings being disposed on said transverse axis of the shank whereby the same are at an angle relative to said side walls; an elongated cutting blade complemental with said groove and seated tightly therein; a lug on the innermost longitudinal edge of said blade for each recess respectively, the lugs being complemental with the recesses and being seated tightly therein, each lug having a laterally elongated notch aligned with a corresponding opening and provided with threads in the sides thereof, the opposite longitudinal edge of the blade being transversely bevelled, presenting a longitudinal cutting edge adjacent the concave face of the shank and spaced therefrom; and a screw for each lug within each of said openings and notches for drawing the blade into the groove, whereby to position the cutting edge of the blade in conformity with the transverse curvature of said concave face.

2,660,789
RESILIENT ANCHORING ASSEMBLY FOR DENTAL PROSTHESIS
Emilio Roccato, Como, Italy
Application March 29, 1951, Serial No. 218,103
6 Claims. (Cl. 32—5)



1. Dental prothesis with assembly for resilient anchorage on an abutment tooth, comprising a dental prothesis, a member adapted to engage said abutment tooth, a first stud having one end connected to said member and having another free end, a first sleeve housing said first stud and being secured to said prothesis, a first helical spring arranged between said first stud and said first sleeve and holding said first stud and first sleeve in resiliently movable relationship, said member forming a protective crown of said abutment tooth and having two protruding jaws, a male member inserted between said jaws, forming a second sleeve and being rigidly connected with said first stud, a second stud housed by said second sleeve, and a second spring arranged between said second sleeve and said second stud and holding said second sleeve and second stud in resiliently movable relationship, said second stud protruding upward from said second sleeve and having an end forming an expanded head.

2,660,790
INSTRUMENT FOR DRAWING CONIC SECTIONS
Marian Polakowski, Chicago, Ill.
Application July 30, 1951, Serial No. 239,215
2 Claims. (Cl. 33—27)



1. A drafting instrument for drawing conic sections comprising a pair of generating arms, an axial arm disposed between said generating arms, said generating arms and said axial arm being upon the same plane, tensioned rods telescopically carried by said arms, a scribing fixture carried by the rod upon one of said generating arms, a cross bar, the ends of said generating arms being pivoted to said cross bar, the end of said axial arm being rigidly connected with said cross bar at a point median of the points at which the ends of said generating arms are pivoted, the enclosed angles between said generating arms and said axial arm being capable of adjustment by shifting said generating arms upon their pivots to or away from said axial arm, means for locking said generating arms in their angular adjusted position with relation to said axial arm, said axial arm and said generating arms being capable of angular shifting with relation to the medium upon which a conic section is to be drawn, means for supporting the arms in their angularly shifted position relative to the said medium, means for imparting a rotary shifting movement to the generating arm carrying said scribing fixture along a surface corresponding to the side of a cone, and tensioning means for actuating said scribing fixture along a curve which corresponds to the section of a given cone.

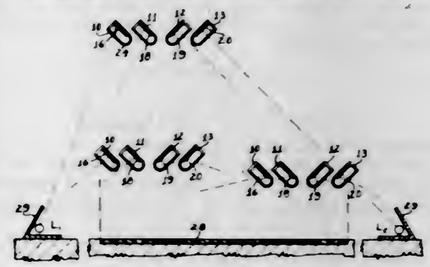
2,660,791
PAVEMENT MARKER
Albert R. Howell, Los Angeles, and Oscar W. Tackett, San Gabriel, Calif.
Application April 16, 1951, Serial No. 221,223
12 Claims. (Cl. 33—41)



1. A marking device of the character described including, a flat horizontally disposed frame having a straight elongate tubular body and a straight base transverse of the body connected to the inner end thereof, a handle on the frame and projecting up therefrom, supporting wheels carried by and located beneath the base and spaced apart lengthwise of the base, a single supporting wheel carried by and located beneath the outer end portion of the frame, guide rollers in the plane of the frame at the ends of the base, an extensible rod slidably engaged in the body from the outer end thereof and projecting outwardly therefrom, means releasably setting the rod in adjusted relationship with respect to the frame, and a marker holder on the rod at the outer extremity thereof and adapted to carry a depending marking element.

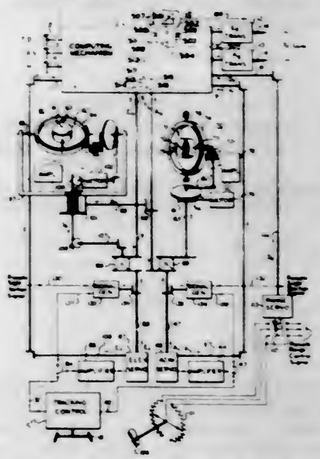
2,660,792
APPARATUS FOR AIDING THE LANDING OF AIRCRAFT
Robert J. Herbold, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
Application August 9, 1951, Serial No. 241,130
1 Claim. (Cl. 33—46)

An apparatus for aiding the landing of aircraft on a runway comprising two horizontal lines of light sources spaced widely from and located on opposite sides of the runway in parallel with the vertical plane of the runway center line and extending throughout the effective distance of aircraft approach, two electronic sets on the craft comprising two pairs of photo-cells, the pairs facing oppositely towards the light lines and mounted in a fixed angular arrangement so that each pair views only one light line when the craft is over the runway, related cells of the pairs having similar light sensitive elements and light shields arranged to provide a progressively varied area of element activation as the directive angle of a light ray from its associated light line changes relative thereto, the photo-cells of each pair being electrically opposed in a separate balanced circuit so as to minimize the effects of ambient light and variations in light intensity, two separate



amplifiers, one being governed by the relative conductivity of the cells of one pair and the other being similarly governed by the cells of the other pair so that each amplifier output is directly related to the cell activation produced in its associated set by the viewed light line, and a single electrical apparatus including a circuit interconnected with the two amplifiers arranged in parallel and controlled by the added output of the amplifiers which is responsive to a variation in the craft altitude irrespective of the lateral position of the craft relative to the runway center line when both lines of light are observed simultaneously by the two pairs of photo-cells.

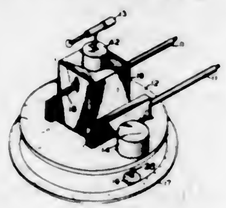
2,660,793
STABILIZED TRACKING AND FIRE CONTROL SYSTEM
Carl G. Holschuh, Glen Head, and Edmund B. Hammond, Jr., and Walter T. White, Brooklyn, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application May 22, 1942, Serial No. 444,152
24 Claims. (Cl. 33—49)



1. Fire control apparatus for aircraft comprising a sighting device mounted on said aircraft.

means for tracking said sighting device with a target comprising means for actuating said device at a rate corresponding to the angular velocity of said target and means for further actuating said device in accordance with the relative changes in attitude of said craft, whereby actuation by said first actuating means necessary to maintain said sighting device in track with said target is unaffected by changes in attitude of said craft, means coupled to said sighting device for setting target position data into a computing mechanism adapted to determine correct gun aiming angles when set in accordance with the target position data and target rate data, and means responsive to said first actuating means for setting in rate data to said computing mechanism.

2,660,794
COMPUTING GUN SIGHT
Raymond C. Goertz, Hempstead, N. Y., and Harvard L. Hull, York, Pa., assignors to The Sperry Corporation, a corporation of Delaware
Application September 12, 1942, Serial No. 458,118
3 Claims. (Cl. 33—49)



1. A computing gun sight comprising a sighting device mounted on and adapted to be moved with a gun, means for producing a control voltage corresponding to a desired angular velocity of said gun, means responsive to said voltage, and including a speed generator adapted to produce a speed voltage proportional to the angular velocity of said gun, for driving said gun and sighting device at said desired angular velocity, and means for offsetting the orientation of said sighting device from that of said gun in a direction opposite to the motion of said gun and in proportion to said angular velocity, comprising means for displacing said sighting device relative to said gun in proportion to said speed voltage, whereby said sighting device lags said gun by the prediction lead angle.

2,660,795
DEPTH SOUNDER
Harry E. Nordstrom, Minneapolis, Minn., assignor of one-half to Stephen Zandlo, Minneapolis, Minn.
Application June 30, 1951, Serial No. 234,617
1 Claim. (Cl. 33—126.5)



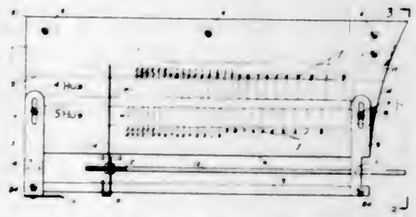
A depth finder comprising a weight of material heavier than water having a rectilinear slot in and across an edge portion thereof open at an outer side and opposite ends of the rectilinear slot to be contiguous with bounding surfaces at an end and opposite sides of said weight, and a flat element of readily puncturable material having a first edge portion thereof situated in and across said rectilinear slot to be accessible at said end and opposite side bounding surfaces of said weight with which the outer side and opposite ends of the rectilinear slot are contiguous and graspingly secured within and to said weight and a second edge portion thereof disposed exteriorly of said weight, said weight having a transverse opening for attachably receiving a fishing line thus to render the depth finder also capable of functioning as a sinker.

2,660,796
DISK MEASURING DEVICE
Albert C. Lies, Minneola, Kans.
Application November 24, 1950, Serial No. 197,382
4 Claims. (Cl. 33—143)



1. A disk measuring device, comprising a graduated beam, a fulcrum pin provided on one end portion of said beam to abut a point on a periphery of a disk to be measured, a cursor slidable on said beam toward and away from said fulcrum pin and provided with indicator means registrable with graduations on the beam, a gauging roller rotatably mounted on said cursor and provided with an annular groove for receiving a peripheral portion of the stated disk diametrically opposite to said fulcrum pin, and a tapered disk guide provided on said cursor adjacent said roller and having a relatively thick portion thereof in substantial alignment with said groove.

2,660,797
REEL TIMER
Carl Mingione, Detroit, Mich.
Application June 30, 1950, Serial No. 171,461
1 Claim. (Cl. 33—169)



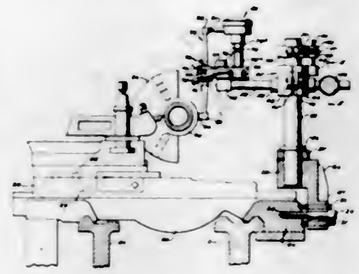
A reel timer adapted for synchronizing the picture reel film within a supporting reel drum with the light arc-carbon units of a picture projector machine, and used therewith, comprising a rectangular base plate formed of dual transparent sections rigidly clamped together and formed with suitable mounting brackets at one end thereof for attaching to a reel drum, a slide bar fixedly mounted along one base plate side wall, parallel therewith, an indicator frame with needle, slidably mounted on said slide bar, an adjustable film detector rod rigidly mounted on said indicator frame and projected beyond the base plate section end for a predetermined length and engageable with the reel film surface, and time indicator scales mounted between the dual transparent base plate sections positioned parallel with the slide bar, said indicator scales being graduated to indicate "time durations" of the contacted moving picture reel film.

2,660,798
DIAL INDICATOR GAUGE
John E. Delaney, Rhinebeck, N. Y., assignor to Standard Gage Company, Inc., Poughkeepsie, N. Y., a corporation of New York
Application January 9, 1951, Serial No. 205,139
5 Claims. (Cl. 33—172)



4. In a gage, an indicator, a scale lying in the path of movement of and movable by said indicator in one direction, an auxiliary indicator lying in the path of movement of and movable by said indicator in the opposite direction to that in which said scale is moved by said main indicator, said auxiliary indicator cooperating with said scale to thereby indicate on the scale the difference between a maximum and minimum indication.

2,660,799
LATHE ATTACHMENT
Theodore O. Strauss, New York, N. Y.
Application June 16, 1947, Serial No. 754,978
3 Claims. (Cl. 33—172)



1. An attachment for lathes including a saddle adapted to travel on the ways of the lathe, a vertical socket member carried by the saddle, a pedestal mounted in said socket member, a bracket on said pedestal and adjustable longitudinally thereof, means for locking the bracket in adjusted position, a horizontal arm supported by the bracket and adjustable longitudinally relative thereto, means for locking said arm in adjusted position, a gauge supported by one end of said arm and having a push-pin positioned above and faced in the same direction as said arm end, a two armed lever pivotally supported by said arm end on a horizontal axis in a vertical plane which is perpendicular to the arm axis, the arrangement being such that one end of said lever is engageable with said push-pin to operate the gauge when the other end of the lever contacts the work, a collar on said pedestal, and a screw threaded in the collar and adjustable to lock the collar to the pedestal in a selected angular relation thereto, there being a tapered tongue and groove coupling between the collar and the top of the socket member, said coupling normally holding the pedestal against turning but being disengageable by abnormal turning force.

2,660,800
BOREHOLE HYDRAULIC MEASURING APPARATUS
Bruce F. Wiley, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 4, 1950, Serial No. 136,733
12 Claims. (Cl. 33—178)

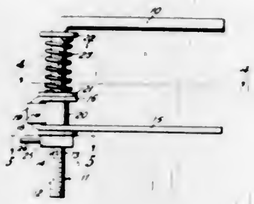


8. A hydraulic bore hole measuring system comprising a chamber, a first hydraulic fluid filled cylinder situated in said chamber, a first piston adapted to reciprocate in said first cylinder responsive to changes in fluid volume in said first cylinder, a second hydraulic fluid filled cylinder having a second piston adapted to reciprocate in said second cylinder responsive to changes in volume in its actuating fluid, the relative cross-sectional areas of and total fluid volumes communicating with said first and second cylinders being such that said first and second pistons are moved like amounts by equal temperature changes in the fluids communicating with said cylinders, means for indicating the position of said first piston with respect to said second piston, expansible means situated externally of said chamber and connected to said first cylinder, and means for varying the volume of said expansible means responsive to changes in size of the bore hole being measured.

2,660,801
DEVICE FOR SETTING CARBURETOR FLOATS
Theodore J. Baas, Westbrook, Minn.
Application August 9, 1950, Serial No. 178,442
1 Claim. (Cl. 33—180)

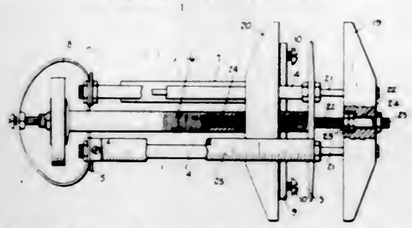
A device of the character described comprising a vertical body member having indicia thereon, an integrally formed horizontally extending handle at the upper end of said body, a clamp member vertically slidable and revolubly mounted on said body, a follower threadably mounted upon the lower portion of the body below said clamp member, an arm formed integrally with said clamp member and extending in spaced parallel relation to said handle, a compression spring sur-

rounding the upper portion of said body and urging said clamp member against said follower,



and a nut threadably mounted on said body below said clamp.

2,660,802
MARKING GAUGE
Carl R. Keys, Denver, Colo.
Application August 2, 1951, Serial No. 239,900
9 Claims. (Cl. 33—191)



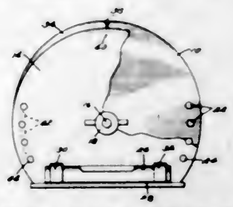
1. A marking device for I-beams and similar structural shapes having a web and a flange, a center line indicator, center line indicator setting means, a slidable marking jaw on each side of the center line indicator, threaded members having opposite threads carrying the jaws and adapted to simultaneously move said jaws toward or away from each other, an adjusting wheel of a non-slip material on one of said threaded members, whereby said wheel may be run over any flat surface prior to placing the marking device in marking position for rapid adjustment of the slidable marking jaws.

2,660,803
TEMPLET AND SUPPORTING FRAME FOR LOCATING HINGE BUTT RECESSES IN DOORS AND DOORFRAMES
Elmer P. Sacrey, Syracuse, N. Y.; Caleb Candee Brown, Jr., executor of said Elmer P. Sacrey, deceased
Application January 23, 1952, Serial No. 267,839
3 Claims. (Cl. 33—197)



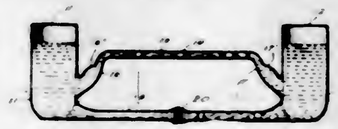
1. A templet and supporting frame for locating hinge butt recesses to be routed out in work, as doors and door frames, comprising a supporting frame having a tubular body and means extending laterally therefrom for attachment to the work; adjustable extensions telescoping into opposite ends of the body; the templet having a lengthwise slot intermediate its ends for exposing the surface to be recessed; gauge means on the templet to locate the templet on the work to be recessed including like end gauges at opposite ends of the templet and extending and adjustable lengthwise beyond said ends, one end gauge being located to hook over the top edge of the door when the templet is applied to the door and the other end gauge being located to abut against the horizontal top rail of the door frame when the supporting frame is inverted end for end and applied to the door frame and the templet is also inverted relative to the supporting frame end for end; means on the templet and the supporting frame to temporarily secure them to the door and door frame alternately, the templet being shiftable relative to the work and supporting frame into position to locate the hinge butt recesses; coacting parts on the templet, body of the supporting frame and extensions to locate the templet in its shifted positions comprising fixed pins projecting radially from the body and each extension and a lug projecting laterally from one side of the templet and having a slot for selectively receiving one of the pins; scales on the extensions and the templet for indicating the selected adjusted positions thereof; releasable locking means on the supporting frame coacting with the extensions to positively lock the extensions in their selected adjusted positions; and releasable locking means on the templet and coacting with the end gauges to positively lock the end gauges in their adjusted positions.

2,660,804
LEVEL INDICATING DEVICE FOR HOUSE TRAILERS
Michael L. Mundy, North Bend, Nebr.
Application January 26, 1952, Serial No. 268,441
1 Claim. (Cl. 33—207)



A level indicator for use on a trailer hitch comprising a circular vertically positioned base plate having a flat portion on the lower side and having a notch in the upper edge, a circular graduated plate also having a flat portion on the lower side positioned against the face of the base plate and having graduations thereon positioned to register with the notch of the base plate, said notch of the base plate being positioned in a plane perpendicular to said flat side and extended through the center of said plates, a stud having a thumb nut thereon mounted in the base plate and extended through the center of said graduated plate pivotally mounting the graduated plate on the base plate, said stud positioned whereby the flat portion of the graduated plate coincides with the flat portion of the base plate with a certain graduation of the graduated plate in registering relation with the notch of the base plate and wherein the upper edge of the graduated plate is spaced from the upper edge of the base plate, said graduated plate having a horizontally disposed shelf extended from the flat portion of the lower side, a level mounted on said shelf, said plates having rows of spaced openings therethrough and said openings being positioned in circles concentric with the center of the stud, a pin extended through said openings for retaining the plates in adjusted positions, and a clamp extended from said base plate.

2,660,805
LEVEL
Jerome Rothstein, Belmar, N. J.
Application September 19, 1950, Serial No. 185,631
2 Claims. (Cl. 33—209)
(Granted under Title 35, U. S. Code (1952), sec. 266)



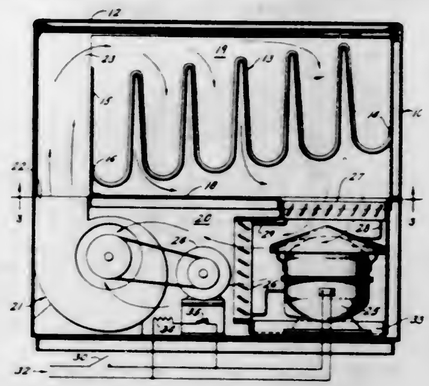
2. A unitary hand-manipulated portable level comprising a pair of spaced upstanding containers of relatively large cross sectional area and free from connection with a base or supporting surface, an elongated small bore capillary tube extending generally horizontally between the containers and connected with the sides of the containers a substantial distance below their tops, said capillary tube having an indicating scale thereon for coaction with a movable bubble disposed within the capillary tube and completely filling the cross sectional area thereof, the bubble serving to completely separate two masses of a liquid held by the capillary tube and containers on opposite sides of the bubble, the liquid serving to propel the bubble through the capillary tube when the level is tilted from the horizontal, a substantially horizontal by-pass tube connecting the lower ends of the containers below the capillary tube, and a stopcock connected in the by-pass tube.

ERRATUM

For Class 34—56 see:
Patent No. 2,660,723

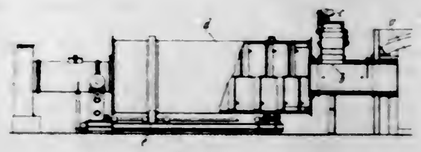
2,660,806
CLOTHES DRYING SYSTEM
Harry A. Whitesel, Abington, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application July 18, 1950, Serial No. 174,485
3 Claims. (Cl. 34—77)

1. In apparatus for air drying fabric articles, a cabinet, partition means dividing the interior of said cabinet into a pair of separate compartments, a foraminous support member upon the upper surface of which fabric articles are draped during drying, said support member extending through one of said compartments and spanning the distance between the walls thereof to subdivide the latter into an upper chamber and a lower chamber, the foraminous nature of said support member providing restricted communication between said chambers, means including ductwork providing communication between the other of said compartments and said upper chamber, means providing a passage in said partition through which the said other compartment is in communication with said lower chamber, air heating means within said other compartment, and means for causing a forced circulatory flow of air from said other compartment through said ductwork and into said upper



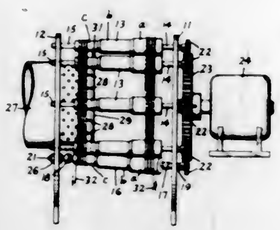
chamber, the air thence passing through the fabric articles and the support member and thereafter flowing from said lower chamber through said passage and into said other compartment.

2,660,807
DRYING MACHINE FOR GRASS AND OTHER CROPS
John Walsh and Harry Dawson, Rochdale, England, assignors to Petrie & McNaught Limited, Rochdale, Lancashire, England, a British company
Application December 1, 1950, Serial No. 198,546
4 Claims. (Cl. 34—136)



1. A drying machine comprising a drum having an inlet and an outlet, means to rotate the drum, means to feed hot gas and material to be dried into the inlet of the drum with sufficient velocity to carry the material through the drum, means defining a helical baffle within the drum extending from substantially the inlet to the outlet with each convolution of the baffle extending from the center to the inner periphery of the drum, the baffle being rotatable with the drum whereby the hot gas and material flows in a helical path throughout the length of the drum, the pitch of the helical baffle gradually increasing from the inlet to the outlet of the drum whereby the velocity of the hot gas gradually decreases during movement of the material through the drum from the inlet to the outlet, and further means defining flat surfaces within said drum in at least one plane parallel to the length of the drum serving to receive the material falling from the hot gas passing through the drum thereby lifting and tumbling such material during rotation of the drum to augment drying of the material.

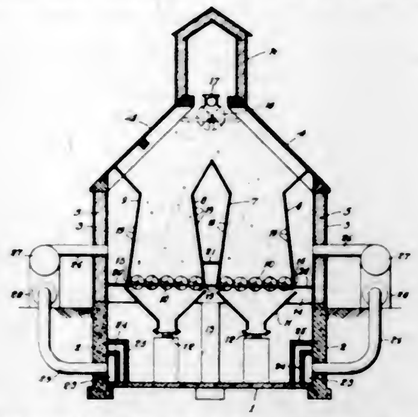
2,660,808
ADVANCING REEL
John N. Birmingham, Nutley, N. J., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
Application March 10, 1951, Serial No. 214,929
2 Claims. (Cl. 34—153)



1. In an advancing reel for treating yarn, a pair of stationary frame members, a plurality of rollers arranged around the periphery of a circle and with their axes parallel to one another rotatably journalled in said frame members, at least one roller whose axis is skewed with respect to the axes of said parallel rollers rotatably journalled between said frame members to cause the yarn to move along the advancing reel in the form of a helix from the feed end of the advancing reel to the discharge end of the advancing reel, the axis of the skewed roller adjacent the feed end of the advancing reel being positioned on the circle passing through the axes of the parallel rollers and the axis of the skewed roller adjacent the discharge end of the advancing reel being positioned internally of the circle passing through the axes of the parallel rollers, pinions operatively connected to all the rollers adjacent the feed end of the advancing reel, a driving gear meshed with all said pinions for rotating said rollers, and a conduit having holes in the walls thereof extending through the frame member adjacent the discharge end of the advancing reel into a position centrally of the rollers for directing a gaseous medium to flow radially outwardly through the turns of yarn, said conduit having a flange extending radially outwardly therefrom for deflecting the gaseous medium away from the turns of yarn adjacent the feed end of the advancing reel.

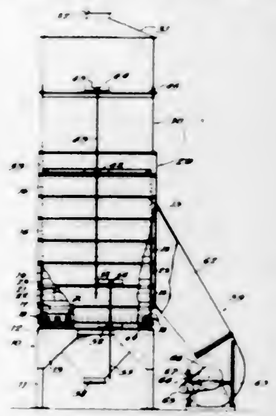
2,660,809
APPARATUS FOR COMPOSTING ANIMAL MANURE
Willard L. Morrison, Lake Forest, Ill., assignor to Union Stock Yards & Transit Company, Chicago, Ill., a corporation of Illinois
Application June 23, 1951, Serial No. 233,138
3 Claims. (Cl. 34—169)

1. Means for composting animal manure and the like comprising a cell having a movable grate-like air pervious floor, and perforate walls extending upwardly above the floor and generally uniformly inwardly inclined, a feed hopper above the cell having its discharge mouth coextensive with the upper cross sectional area of the cell, its cross sectional area increasing upwardly, and exposed to ambient air pressure, a pressure plenum chamber in communication with the cell through the floor thereof, a suction plenum chamber in communication with the cell through the perforate walls, means for compressing air, a discharge conduit leading from the discharge side of said means to the pressure chamber, a



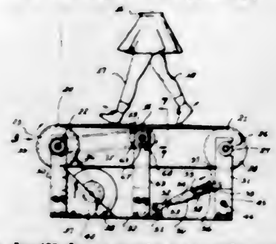
suction conduit leading from the suction side of the pressure means to the suction chamber.

2,660,810
DRIER FOR GRANULAR MATERIAL
Bryce M. Hess, Chicago, Ill.
Application March 27, 1951, Serial No. 217,767
11 Claims. (Cl. 34—170)



1. A drier for granular material comprising, a drying chamber, feeding means at the top of said chamber, a plurality of spaced imperforate, open bottom inlet ducts for introducing hot gases to said chamber, a plurality of imperforate, open bottom outlet ducts interspersed among said inlet ducts and spaced therefrom, said outlet ducts having open ends through which said gases may leave the chamber, and all said ducts having tops constructed to distribute grain more or less uniformly to both sides of the duct, a lowermost series of outlet ducts having imperforate tops and shielded side openings through which hot gases may enter said ducts, and open ends through which hot gases may leave said ducts, dump gate means substantially in contact with the lower margins of said lowermost series of ducts and close to the shielded side openings therein, a heating chamber in communication with said inlet ducts only, said chamber having heating means, and a blower to circulate hot gases from said heating chamber through the drying chamber.

2,660,811
TREADMILL FOR WALKING TOYS
Howard M. Black, Los Angeles, Calif., assignor to Artisan Novelty Company, Gardena, Calif., a corporation of California
Application October 2, 1950, Serial No. 187,885
3 Claims. (Cl. 35—49)



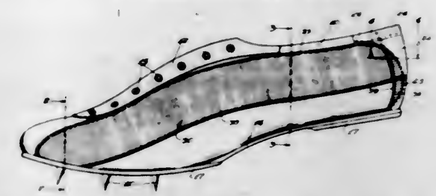
1. A treadmill for causing simulated walking of a toy having pivotal legs which comprises: a rectangular framework having a base member and laterally spaced end uprights, one pair of said spaced uprights being pivotally mounted on said base member; a standard to hold a toy in an erect position above the center of said framework and facing one end thereof; horizontal rollers rotatably mounted on said end uprights and extending laterally across said framework; endless belt means mounted on said rollers to move beneath the legs of said toy; drive means including a motor adjustably mounted on said base member and connected to one of said rollers to move said belt means; cam means mounted on said framework and engaging said belt means to vertically reciprocate laterally spaced portions of said belt means in alternate time phase to thereby alternately engage and disengage said belt means and said legs; means connecting said cam means with said roller drive means; and adjustable spring braces mounted on said framework and yieldably urging said pivoted uprights outwardly to maintain a predetermined tension on said belt means.

2,660,812
SKI BOOT
Hermann Henke, Stein am Rhine, Switzerland
Application February 8, 1952, Serial No. 270,550
4 Claims. (Cl. 36—1.5)



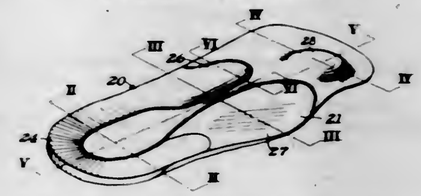
1. A ski boot comprising an upper, a gaiter joining said upper and being movable relatively thereto, two eyelets anchored below the ankle portion on the sides of the boot, respectively, two tape-shaped pulling members secured to the lower rim of the gaiter on the sides thereof respectively, each member being passed downward through the adjacent eyelet and from there upward, at least one of said members extending across the instep portion of the boot, and means to connect the free ends of said members adjustably and detachably to each other, so that at the same time the instep of the foot and said gaiter can be pulled down towards the sole and the heel portion of the boot.

2,660,813
TRACK SHOE
Isadore Shapiro, Chicago, Ill., assignor, by mesne assignments, to A. R. Hyde & Sons Company, a corporation of Massachusetts
Application February 10, 1951, Serial No. 210,313
1 Claim. (Cl. 36—2.5)



A running shoe comprising a sole, calks carried by the ball portion of the sole, the heel portion of said sole being free of antislipping means, a low-cut upper of soft leather, and longitudinal stretch-preventing means comprising a substantially non-stretchable tape extending longitudinally on each side of the upper from the toe to the heel thereof and stitched along its side margins to the outside of the upper, the forward ends of said tape being turned under with the margin of the upper and secured between the outsole and the upper, said tape being of a width approximately half the height of the sides of the upper and spaced from the top and bottom margins along the greater length thereof, whereby to provide a continuous toe-to-heel flat band anchored adjacent the toe to opposite sides of the shoe and extending around the heel for eliminating excessive stretching of the upper and insuring a continuous snug fit throughout a major area of the shoe.

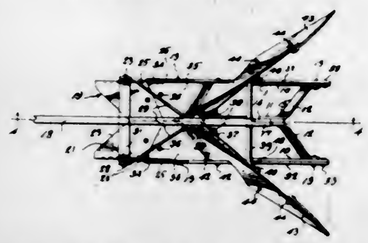
2,660,814
ORTHOPEDIC DEVICE
James J. Ritchey, Columbus, Ohio
Application November 3, 1951, Serial No. 254,688
3 Claims. (Cl. 36—71)



1. An orthopedic device to be worn in a shoe comprising a body conforming in outline to the heel and ball sections of a shoe insole and having a rounded projection at the inner side between the heel and ball portions; a substantially oval padded portion on said body, one side of such padded portion coinciding with said rounded projection, said padded portion being disposed at the inner side of the longitudinal axis of said body to lie under the navicular, the first and second cuneiform and the rear ends of the first and second metatarsal bones of the wearer's foot, said padded portion being thickest at its center and tapering toward both sides and ends; a second oval shaped padded portion extending transversely of said body beyond the forward end of the first padded portion, said second padded portion being disposed at the inner side of the longitudinal axis of the body to lie under the forward portions of the first, second and third metatarsal bones of the wearer's foot; said second padded portion being convex on its upper surface;

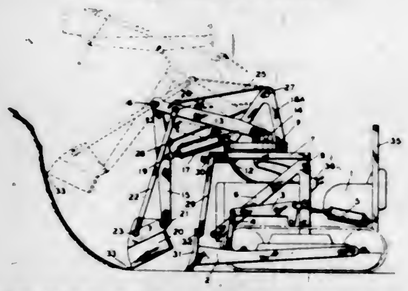
and a third padded portion on the opposite side of the longitudinal axis of said body from the first padded portion, said third padded portion tapering from its center toward both sides and being disposed to lie under the cuboid, the third cuneiform and the rear portions of the third and fourth metatarsal bones of the wearer's foot.

2,660,815
TRENCH DIGGING PLOW
Tony Lippis, Florence, Colo.
Application April 28, 1950, Serial No. 158,659
1 Claim. (Cl. 37—98)



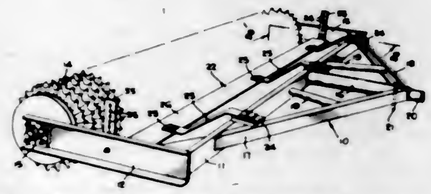
An apparatus of the character described comprising a frame, an elongated side cutter affixed to each side of the frame, a plowshare extending forwardly from the lower end of the frame, mold boards extending upwardly and outwardly from said plowshare between and over said side cutters, and a vertically extending blade affixed to each side of said plowshare forwardly and in spaced relation to the forward edge of each of the side cutters, each of said cutters having an upwardly and rearwardly curved blade formed in the upper portion of its forward edge and a downwardly and rearwardly curved blade adjoining said first-mentioned blade in the lower portion of its forward edge, and an extension for each of the mold boards removably connected to said mold boards and, said plowshare having a V-shaped indentation in its cutting edge.

2,660,816
COMBINATION BULLDOZER AND SHOVEL ARRANGEMENT
Willard A. Maxwell, Portland, Oreg.
Application February 17, 1949, Serial No. 76,929
5 Claims. (Cl. 37—117.5)



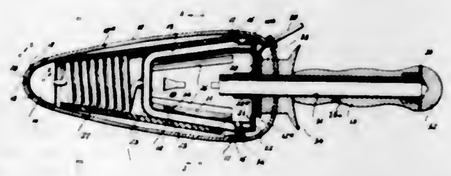
1. An earth moving apparatus comprising a tractor, arms pivoted at the sides of the tractor, a transversely extending ground engaging member rigidly connected to the forward ends of the arms across the front of the tractor and said member adapted to be raised from or lowered to ground engaging position, a frame supported on and over the tractor, a platform pivoted at the back of the frame and having supports at the front removably connectable to the transversely extending ground engaging member to support the front end of the platform when the transversely extending ground engaging member is lowered into ground engaging position, a turntable rotatable on the platform and having means to rotate the same, a shovel assembly including an inner boom pivoted on the turntable, an outer boom pivoted to the outer end of the inner boom, means connecting the outer boom and turntable to raise and lower the outer boom, means connecting the booms to raise and lower the inner boom with the outer boom, a dump shovel pivoted to the outer end of the outer boom, and means connecting the inner boom and shovel outwardly of its pivot to raise and lower the shovel with the booms.

2,660,817
SPRING MOUNTED LEVELER FOR GROUND PULVERIZERS
Yeppie Thomas, Fresno, Calif.
Application May 1, 1951, Serial No. 223,898
4 Claims. (Cl. 37—179)



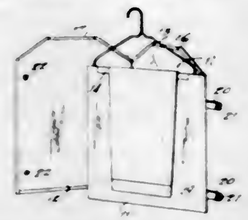
1. In an agricultural implement having a frame, the improvement comprising: a ground-contacting leveler, leaf springs connecting the leveler to the frame and acting resiliently to impose a downward force on said leveler, a deflector fixed at each end of the leveler and mounted at an angle thereto to deflect earth inwardly away from the ends of the leveler as the frame moves forward over the ground surface, each deflector cooperating with the leveler to define a pocket isolated from contact with earth, and stop elements adjustably mounted on the frame each having a portion extending into one of said pockets to limit downward movement of the leveler under influence of said leaf springs.

2,660,818
HANDY IRON
Gertrude T. Gross, New York, N. Y.
Application December 21, 1948, Serial No. 66,407
6 Claims. (Cl. 38—69)



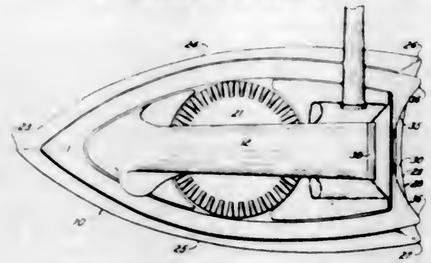
1. An ironer comprising a hollow elongate casing having a curved outer ironing surface, a liquid reservoir within the casing and spaced therefrom, electrical heating means in the space between the liquid reservoir and the casing, a vapor pressure chamber within one end of the casing, valve means adapted to admit vapor generated within the liquid reservoir into the vapor pressure chamber, the casing having ports leading from the vapor pressure chamber to the outer surface of the casing, and a hollow handle at the end of the casing remote from the end in which the vapor pressure chamber is located, said hollow handle leading to the liquid reservoir and providing means through which liquid may be introduced into the liquid reservoir.

2,660,819
GARMENT CONTAINER AND HANGER
Oscar C. Cox, Fort Worth, Tex., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application August 15, 1950, Serial No. 179,525
1 Claim. (Cl. 38—71)



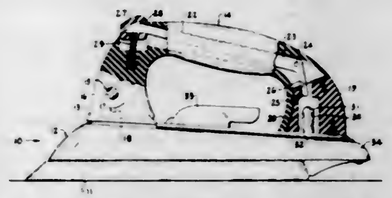
A press and hanger device for trousers, the combination comprising, an innermost panel having a clothes hanger secured to its uppermost edge, an intermediate panel and an outermost panel hingedly connected along their adjacent longitudinal edges, the said intermediate panel being hingedly connected along its opposite longitudinal edge to said innermost panel, the said outermost and intermediate panels having angular upper edges conformable to said hanger, and means for securing said panels in laminated arrangement.

2,660,820
REST FOR ELECTRIC IRONS
Herbert W. Wilson, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 3, 1949, Serial No. 96,921
4 Claims. (Cl. 38—79)



1. An electric iron comprising a body having a sole plate, a handle attached to said body and having an iron rest, said sole plate having opposed side walls terminating in an end wall, said end wall having a portion concaved toward said body and forming with the adjacent ends of each of said side walls a pointed end, means on said body disposed above said sole plate and having an end concaved toward said body and lying within the limits of said end wall to expose said concaved portion of said sole plate when viewed from above, said means terminating at its opposite ends in iron rest means cooperating with said handle rest to support said iron when the latter is upended into iron rest position, said iron rest means being offset inwardly of said body with respect to said pointed ends whereby said rest means do not interfere with the operator's line of vision when ironing with said pointed ends and said concaved end wall.

2,660,821
IRON
George E. Kanta, Three Forks, Mont., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application November 15, 1946, Serial No. 709,993
5 Claims. (Cl. 38—79)



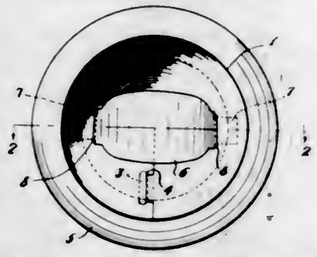
1. A sad iron comprising a sole plate, a housing thereabove, a collapsible rest for supporting said sole plate out of contact with an ironing surface including an operating handle mounted on said housing and pivoted thereto forwardly of the grip portion of said handle, means for limiting the pivotal movement of said handle between a normal operative position and an extended position further removed from said housing, latching means for latching the rear, free end of said handle in said normal operative position when using or transporting said iron and for releasing said latch to permit pivotal movement of said handle to said extended position in which the free end of said handle cooperates with a portion of said housing to provide a rest for the iron to support the sole plate out of contact with an ironing surface.

2,660,822
GRADING MARKER
William D. Hargus, Brawley, Calif.
Application October 7, 1950, Serial No. 188,940
1 Claim. (Cl. 40—2)



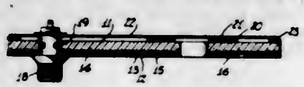
Apparatus for indicating necessary localized fill with reference to a grade line, comprising a stake having a ground-penetrating tip portion and an upwardly extending portion, a tubular marker positioned over the lower part of the upwardly extending portion of said stake, said marker having a lower end comprising a ground-engaging member and a pigmented band completely encircling the marker and extending upwardly from said lower end of the marker and having a critically determined width for indicating the vertical distance of the grade line from the ground level when said ground engaging member is in contact with the surface to be graded and whereby the upper edge of the band will be located on the grade line.

2,660,823
TIRE DISPLAY
Serrol Dubin and Joseph Goldberg, Cleveland, Ohio
Application October 20, 1951, Serial No. 252,386
3 Claims. (Cl. 40—125)



1. A display comprising a conical member having a continuous periphery and having a pair of diametrically opposed slots therein spaced radially inwardly from the periphery thereof, said member being adapted to engage one side of an annular member and protrude into the open center thereof, and a flexible narrow elongate strip the end portions of which are of reduced width and extend through said diametrically opposed slots and protrude from such slots for securing the strip to said member and for engaging the opposite side of an annular member to secure the display thereto.

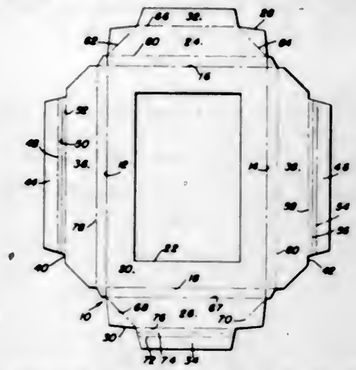
2,660,824
INSTRUMENT PANEL
Edwin A. Neugass, White Plains, N. Y.
Application November 9, 1951, Serial No. 255,787
11 Claims. (Cl. 40—130)



1. A panel comprising a body of transparent material with a next adjacent layer of translucent material superimposed on the front face thereof, and an outer layer of opaque material superimposed over said translucent layer, said outer layer having openings therethrough uncovering the underlying portions of said translucent layer and defining indicia, means for admitting light to said transparent body to transilluminate the translucent layer at the openings in the opaque layer, and a light concentrating coating covering the portions of the rear surface of said transparent body registering with the openings in said opaque outer layer remote from said light admitting means so that the transillumination at said openings is of substantially uniform intensity.

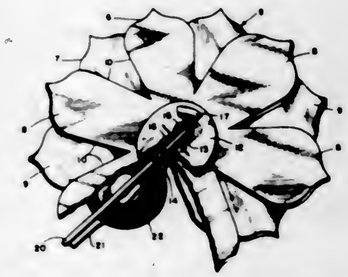
2,660,825
FOLDING PICTURE FRAME
Virginia P. Howard, Alice, Tex.
Application November 2, 1951, Serial No. 254,490
8 Claims. (Cl. 40—155)

1. A folding picture frame comprising a blank of material including a substantially rectangular body portion, a pair of side tongues hinged to the side edges of said body portion, a pair of end tongues hinged to the end edges of said body portion, said body portion having a central rectangular opening therein, said end and side tongues being folded inwardly over the front face of said body portion, each of said tongues having an extension extending through the opening and behind the body portion, and channels formed in the extensions of the side tongues and one of



the extensions of the end tongues engaged against the rear face of the body portion adapted to receive a picture therein.

2,660,826
ARTIFICIAL WATERPROOF HAIR ORNAMENT
Jeanne H. Bennett, Chicago, Ill.
Application January 17, 1952, Serial No. 266,981
4 Claims. (Cl. 41—13)

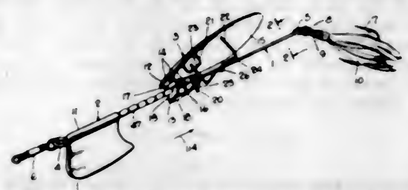


1. Ornamental means for camouflaging pin curls during drying and setting, comprising a plurality of layers made of flexible waterproof material and each having petal formations superimposed in staggered formation, a central fastening disc attached to the central portions of the said layers, a pair of grommets disposed in parallel axial relationship securing the said plurality of layers and the said central fastening disc, and a disc having its peripheral portion cemented to the said central fastening disc maintaining the central portion thereof free from the said grommets.

2,660,827
FISH LURE
Peter J. Pero, Jersey City, N. J.; Josephine Pero and Peter P. Pero, executors of said Peter J. Pero, deceased, assignors to Josephine Pero, Jersey City, N. J.
Application April 27, 1951, Serial No. 223,364
11 Claims. (Cl. 43—42.19)

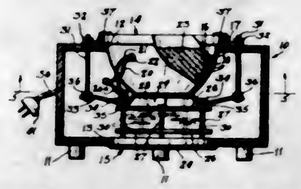
9. A fish lure to be connected intermediate a hook member and a line, such lure having a spindle, a first blade rotatably and pivotally mounted on said spindle, a brake mounted on said spindle to counteract the tendency of the spindle

to rotate with said first blade, and a device for changing the direction of rotation of said first blade relative to said spindle for clockwise and counterclockwise movement of said first blade relative to said spindle said device including a first abutment on said spindle and a second abut-



ment on said blade, the abutment on said spindle disposed in the path of movement of the abutment on said blade when said blade rotates about said spindle, and cam means intermediate said blade and spindle cooperating with said abutments to change the pitch of said blade.

2,660,828
TIME CONTROLLED DEMOTHIZING DEVICE
Maurice Abrams, Newark, N. J.
Application January 6, 1951, Serial No. 204,763
3 Claims. (Cl. 43—129)



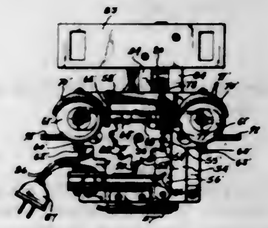
1. A demothing device comprising a plastic box supported on short legs and having a circular opening in the top and another in the bottom, a heating pot removably mounted in the top opening and including inner and outer shells and a heating coil therebetween, a manually presettable timing device mounted in the bottom opening and including a pair of frame plates located within the box and corner bolts securing together and spacing apart said plates, a strap secured to the topmost plate by diagonally opposite ones of said bolts, said strap having an upwardly arched center portion atop which said outer shell sits spaced from the timing device, bolts secured to the ends of said strap and extending through the top of the box, means associated with said bolts for securing the heating pot removably in place, and electric circuit means for said coil controlled by said timing device.

2,660,829
ANIMATED ATTACHMENT FOR RECORD PLAYERS
Margaret A. Estes, Victorville, Calif.
Application May 6, 1952, Serial No. 286,323
2 Claims. (Cl. 46—118)



1. An animated device for a phonograph having a turntable for supporting and rotating a phonograph record, comprising a table-like support providing a platform superposed in vertically spaced relation to the turntable, a rockable object on said platform, said platform having an opening therein, an arm pivotally mounted at one end on said support, a wheel journalled at the other end of said arm, said arm being vertically swingable to permit said wheel to ride on a record on the turntable, a crank on said wheel, and a link received in the opening in said platform and connecting said crank and said rockable object.

2,660,830
POWER-OPERATED DOLL EYE AND LID MECHANISM
George H. Jentzen, Hasbrouck Heights, N. J.
Application September 25, 1950, Serial No. 186,571
1 Claim. (Cl. 46—135)

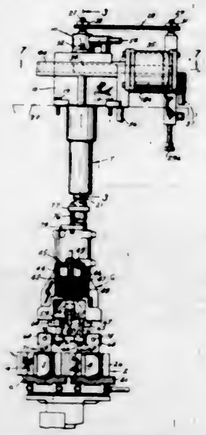


An eyeball and eyelid device for a doll or the like which comprises a pair of simulated eyeballs pivoted on their vertical axis, a drive shaft, an electric motor to rotate said shaft slowly, a cam fixed on said shaft and having a plurality of humps extending different distances from the center of the cam, a follower lever rocked different amounts by said cam, a universal bar connected to said lever and also to said eyeballs to roll the latter different amounts, a lateral spindle located between the eyeballs, a crescent shaped eyelid secured to either end of the spindle and normally covering the upper part of the eyeball, spring means for maintaining the eyelids in normal position, an electromagnet having an armature, an arm on said spindle, a link connecting the arm with the armature to blink the eyelids when the magnet is energized, and means controlled by said motor driven shaft to effect periodic energizations of said magnet for different periods of time, including a circuit for the magnet, a pair of normally open contacts in the circuit and a plurality of pins projecting laterally from the humps of the cam to close the contacts for different time periods.

2,660,831
GLASSWARE TAKEOUT APPARATUS
George E. Rowe, Wethersfield, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Application February 1, 1950, Serial No. 141,662
10 Claims. (Cl. 49—14)

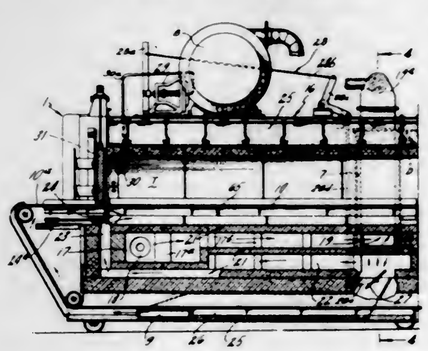
8. In a glassware forming machine having a blow mold including a bottom plate, means for gripping a glassware article supported on said bottom plate, means for laterally transferring said gripping means first in a horizontal direction only and for holding the gripped article elevated above a dead plate cooling station, means for removing a like article from said dead plate station, and means operable independently of said

lateral transfer means for lowering said elevated article and opening said gripping means to de-



posit said article after said removing means have cleared the dead plate station.

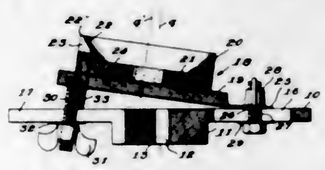
2,660,832
APPARATUS FOR ANNEALING GLASSWARE
Donald G. Merrill, West Hartford, Conn., assignor to Emhart Manufacturing Company, Hartford, Conn., a corporation of Delaware
Application April 6, 1951, Serial No. 219,685
6 Claims. (Cl. 49—47)



1. In a glassware annealing tunnel lehr having a conditioning section, a slow cooling section and a forced cooling section which provide zones of the tunnel through which ware is transported on an endless belt conveyor, a source of heat in said conditioning section, means for withdrawing atmosphere from the rear end of the slow cooling zone of said tunnel and directing the withdrawn atmosphere to the conditioning section of the lehr, means for dividing said withdrawn atmosphere and discharging a portion of the withdrawn atmosphere into the conditioning zone of the tunnel and another portion out of the lehr, means for regulating the portion of withdrawn atmosphere discharged into the conditioning zone of the tunnel relative to the portion discharged from the lehr, and thermostatic means responsive to lehr temperature for automatically adjusting said regulating means.

5. In a glassware annealing tunnel lehr having a forced cooling tunnel section, a blower for introducing cooling air into said section, a deflector for directing the flow of cooling air into the tunnel, means for adjusting said deflector to induce forward and reverse longitudinal drift of atmosphere in said tunnel, a discharge passageway for venting atmosphere from the cooling section, said discharge passageway being closed by said deflector in its extreme forward drift-inducing position, and said discharge passageway including a scoop for receiving and directing cooling air from the deflector in its extreme reverse drift-inducing position out through said discharge passageway.

2,660,833
DEVICE FOR SUPPORTING GLASSWARE IN BURNING-OFF OPERATIONS
John C. Weber, Jr., Weston, W. Va., assignor to West Virginia Glass Specialty Company, Weston, W. Va., a corporation of West Virginia
Application January 2, 1952, Serial No. 264,517
5 Claims. (Cl. 49—50)

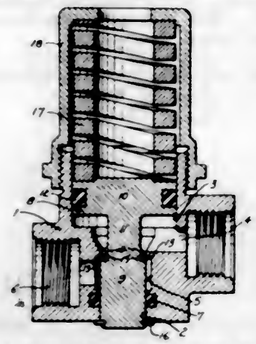


1. In a device of the kind described, a vertically disposed rotatable shaft, a horizontally disposed disk plate secured centrally thereof to said shaft, a pair of diametrically aligned slots in said disk plate at opposite sides of the axis thereof, a glassware retaining member including a circular base and an upstanding rim disposed radially inwardly of the margin thereof, a pair of bolts carried by said circular base one of said bolts extending through one of said slots and the other thereof extending through the other slot, providing for adjustment of said circular base diametrically of said disk plate, nuts on said bolts for locking said circular base in diametrically adjusted position, and a screw bolt threaded through said circular base at each side of one of said slots and having their free ends engaged with said disk plate for effecting angular adjustment of the said circular base.

2,660,834
PRESSURE REGULATOR
William F. MacGlashan, Jr., Alhambra, Calif., assignor to California Institute Research Foundation, Pasadena, Calif., a corporation of California
Application February 11, 1949, Serial No. 75,797
7 Claims. (Cl. 50—35)

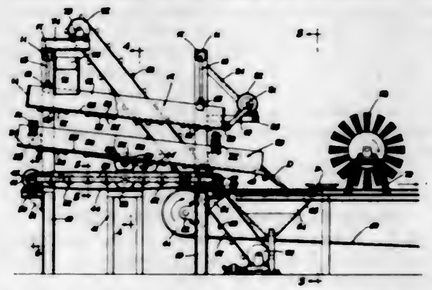
6. A valve structure, comprising: a valve body having a coaxial major and minor chamber, a throat separating said chambers and forming a valve seat shoulder facing into said minor chamber; a valve plunger controlling flow from said minor chamber to said major chamber including a cylindrical portion movable in said minor chamber, a neck portion of reduced diameter movable through said throat, a head of major diameter movable in said major chamber, and a valve ring groove immediately adjacent said neck; an O-ring fitted in said groove and protruding radially from said plunger for engagement with said valve

seat shoulder when said valve is closed, said neck portion and said throat walls forming the bound-



aries of the flow passage between said minor and major chambers when said valve is open.

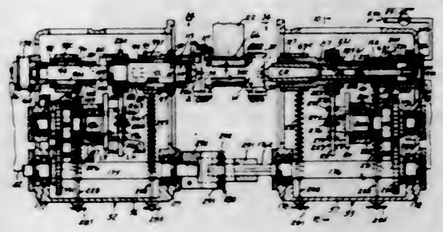
2,660,835
APPARATUS FOR ABRADING BISQUE WARE
Oscar J. Burden, Alliance, Ohio
Application December 17, 1951, Serial No. 262,065
5 Claims. (Cl. 51—7)



2. Apparatus for cleaning bisque ware continuously including a shaker tray having a perforate bottom and an open discharge end, means for distributing grog continuously over said tray bottom, means for vibrating said tray to abrade ware thereon and advance it gradually toward said discharge end, a perforate belt conveyer for receiving material discharged from said shaker tray, a second belt conveyer under said perforate tray for receiving grog dropping through said tray, means for selectively vibrating said second conveyer to abrade ware carried thereon, means for collecting grog from both conveyers, and means for returning said collected grog to said distributing means.

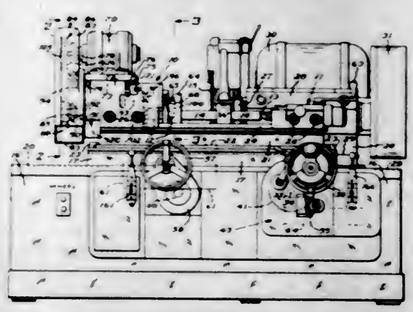
2,660,836
GRINDING MACHINE FOR SHAPING SURFACES
Clarence J. Green, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application December 13, 1951, Serial No. 261,493
43 Claims. (Cl. 51—91)

19. In an apparatus for shaping surfaces, in combination, a peripherally operative grinding wheel having a shaped grinding face to provide in the horizontal plane through its axis a correspondingly defined horizontal grinding line of contact across its face for action on a work-piece, means for supporting and rotating a work-piece and providing an axis of rotation for the work-piece with said axis at substantially the height of said horizontal plane and extending in a direction generally parallel to said defined grinding line whereby to traverse successive longitudinal peripheral portions of the work-piece relative to the grinding wheel, said work-supporting and rotating means being movable for universally tilting the axis of rotation of the work-piece relative to said grinding wheel in that the said means has two axially spaced universally movable sup-



ports therefor each of which has means movably supporting it for movement in all directions in a plane transverse to said grinding line, and two control means operating respectively upon said axially spaced universally movable supports for determining the directions and amounts of movement of each relative to the other and each in substantially a plane transverse to said grinding line and thereby determining tilt of the axis of rotation of the work-piece relative to both the horizontal and the vertical.

2,660,837
GRINDING MACHINE
Olva E. Hill, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application December 11, 1951, Serial No. 261,030
17 Claims. (Cl. 51—95)



1. In a grinding machine, in combination, a grinding wheel, means for rotatively supporting a work-piece to be ground and driving means therefor comprising motive means having a driving connection with said rotatable work-supporting means that includes two pulleys and a connecting drive belt, one of said pulleys having spring-biased coacting belt engaging members which are relatively movable in axial direction for changing the effective pitch diameter thereof whereby to change the ratio of drive between said two pulleys and thereby change the speed of drive of said work-supporting means, means movably mounting one of said pulleys for movement in a direction to change the distance between it and the other of said two pulleys and

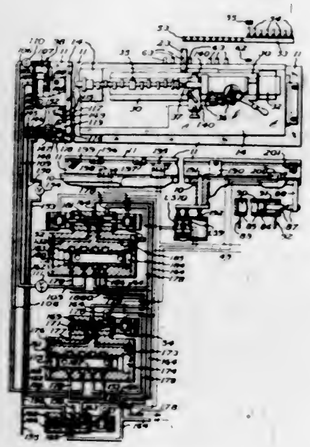
thereby effect change in the ratio of drive therebetween, means for effecting relative feeding movement between said grinding wheel and said rotatable work-supporting means during grinding action of the grinding wheel on the rotating work-piece and for effecting relative retracting movement between said grinding wheel and the work-supporting means, and reversible motor means operating at relatively low speed in one direction of drive and operating at relatively high speed in opposite direction of drive and having operating connections with said pulley mounting means to move it to change the aforesaid ratio of drive, with means for controlling the direction of drive of said motor means to effect low-speed movement of said pulley mounting means during relative feeding movement between said grinding wheel and said work-supporting means to move said pulley mounting means and thereby change the speed of drive of said work-supporting means and to effect high-speed movement thereof for resetting the machine for the next cut by the grinding wheel.

2,660,838

CAM GRINDING MACHINE

Clarence J. Green, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application November 17, 1950, Serial No. 196,263
13 Claims. (Cl. 51—101)



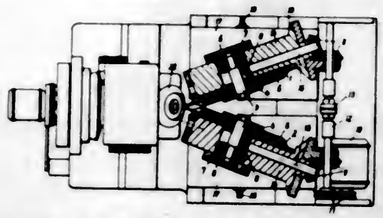
1. In a cam grinding machine having a base, a transversely movable wheel head, a rotatable grinding wheel thereon, means to feed said head transversely, a longitudinally movable table, a swivel table thereon, a rotatable camshaft support thereon, means including a motor for intermittently indexing the table longitudinally successively to position a plurality of spaced cams to be ground in operative relation to the grinding wheel, means including an independent motor to swivel said swivel table in either direction, adjustable stops to limit the swivelling movement of the table in either direction, and means actuated by and in timed relation with the longitudinal table movement to control the swivelling means so as to alternately swivel said table in opposite directions after each pair of cams has been grounds to facilitate grinding a predetermined taper in opposite directions on alternate pairs of cams to be ground.

2,660,839

TOOTH FACE GRINDER

Heinrich Schicht, Huckeswagen, Germany, assignor to W. Ferd. Klingelnberg Sohne, Remscheid-Berghausen, Germany

Application April 11, 1951, Serial No. 220,377
Claims priority, application Switzerland April 20, 1950
6 Claims. (Cl. 51—124)



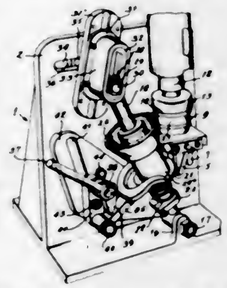
3. A gear machining apparatus comprising a work carrier, a pair of rotating tools disposed in operative association with said carrier, said tools being inclined relative to each other to form a first angle corresponding to the angle defined by the tooth face lines of the work piece to be machined, and support members for said tools, the longitudinal axes of said support members being inclined relative to each other at an angle equal to said first angle whereby said tools are adapted to cut spur gears, each of said support members being rotatable about its longitudinal axis whereby said tools are inclined at a second angle equal to the longitudinal taper of the gear teeth to be machined, said first angle remaining constant, whereby said tools are adapted to form bevel gears.

2,660,840

CONE RIB FINISHING MACHINE

Albert L. Bergstrom, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio

Application March 16, 1950, Serial No. 149,996
9 Claims. (Cl. 51—131)



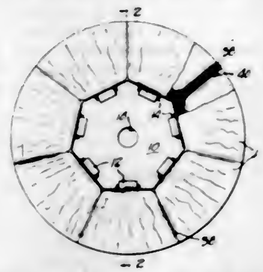
1. A honing machine comprising a frame, a rotatable arbor adjustably mounted on said frame for holding a tapered tubular work piece provided with a radial flange, one face of which is to be machined, an extensible spindle, means on said frame for pivotally supporting one end of said spindle on said frame, a honing stone rotatably mounted on said spindle for machining said face on said work piece, a member adjustably mounted on said frame for supporting the free end of said spindle, a spring on said spindle for moving said honing stone into engagement with said flange face; and manually operable cam means adjustably mounted on said frame for disengaging said stone from said flange face against the action of the spring.

2,660,841

BUFFING WHEEL

John F. Leslie, Mishawaka, Ind.

Original application October 26, 1949, Serial No. 123,738, now Patent No. 2,607,171, dated August 19, 1952. Divided and this application January 21, 1952, Serial No. 267,356
5 Claims. (Cl. 51—193)



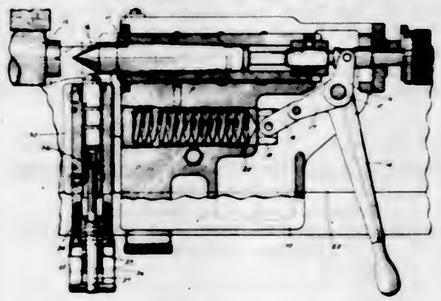
2. A buffing member adapted for detachable connection with a rigid center mount, comprising a fabric unit formed of a plurality of superimposed layers of cloth, an attachment member secured to the central portion of said unit, said unit being folded to skirt form, and a fabric insert secured within said skirt and cooperating therewith to render said skirt unit of substantially uniform thickness throughout.

2,660,842

PRECISION FEED ADJUSTMENT

Harold E. Balsiger, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.

Application June 7, 1950, Serial No. 166,559
5 Claims. (Cl. 51—236)



1. In a machine tool carriage, means for rotatably supporting one end of a workpiece during a machining operation including a footstock, a spindle in said footstock having a center member for engaging one end of said work piece, means mounted on said carriage independently of said footstock for engaging and supporting said center against deflection due to said machining operation and precision means for adjusting said supporting means to effect a fine precision feed of said work piece against said cutting tool.

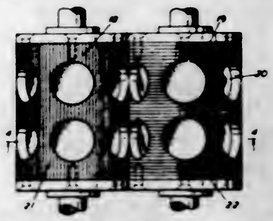
2,660,843

PACKAGING MACHINE

Stephen Paul Rety and John Frederick Moore, London, England

Application March 28, 1952, Serial No. 279,079
3 Claims. (Cl. 53—86)

1. In a packaging machine of the type set forth, a pair of peripherally-abutting heated cylindrical rollers to receive therebetween superposed layers of packaging material, one of said rollers having spaced peripheral pockets to accommodate tablets to be packaged, a plurality of unbroken equally-spaced parallel ridges and furrows arranged on the cylindrical surface of one of



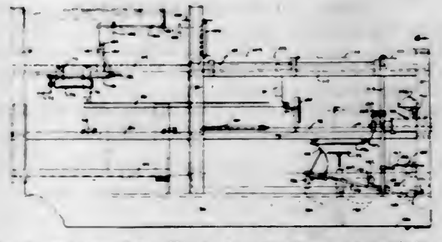
said rollers longitudinally and parallel to the axis of rotation of said roller, and a plurality of unbroken parallel equally-spaced ridges and furrows arranged circumferentially on the cylindrical surface of the other of said rollers, said ridges constituting the only abutting areas of the rollers.

2,660,844

CARTON HANDLING APPARATUS

Arthur C. Schroeder, Skaneateles, N. Y.

Application June 24, 1948, Serial No. 35,017
17 Claims. (Cl. 53—91)



1. A carton handling apparatus comprising a frame, means for supporting a supply of flat collapsed cartons with the top and bottom end flaps extending vertically, means operable to advance said cartons successively from said supply to a carton filling station, adhesive applying means operable to apply adhesive to selected ones of said top and bottom flaps during such advancement of the collapsed cartons, expanding means cooperable with said advancing means to expand the cartons at said filling station to tubular form, folding means operable at said filling station to fold the bottom flaps upwardly to nearly closed position, and means positioned at said filling station and operable to fold top flaps on opposite sides of the expanded carton outwardly to a horizontal open position.

2,660,845

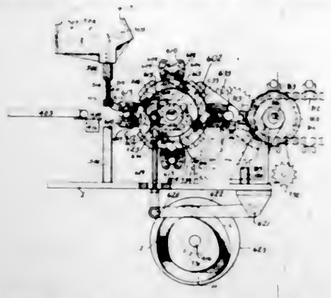
MACHINE FOR PREPARING FUSEES

Francis R. Clark, Orange, N. J., and Carl J. West, Jr., Columbus, Ohio, assignors to 225 Enterprises Inc., Orange, N. J., a corporation of Ohio

Application August 23, 1949, Serial No. 111,802
13 Claims. (Cl. 53—112)

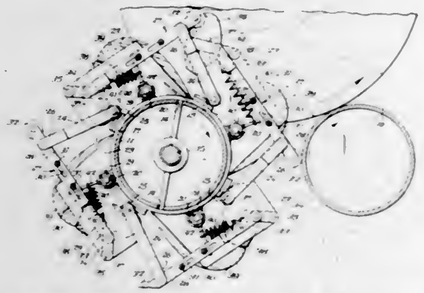
1. A wrapping device for cylindrical objects comprising a turret; a plurality of rolling devices mounted on said turret, each rolling device comprising a driven roller and a plurality of holding rollers, said holding rollers being mounted for relative movement to open and closed positions; means for imparting intermittent rotary motion to said turret to index each rolling device for a dwell successively at a loading station and a dis-

charge station; means for moving said holding rollers of each rolling device to open position to receive a cylindrical object and wrapper at the loading station; means for depositing a cylindrical object and an end of a wrapper in each rolling



device during a dwell at the loading station; means for moving said holding rollers of each rolling device during the dwell at the loading station to closed position; means to drive said driven roller and thereby wind said wrapper around said cylindrical object as the turret moves from the loading station toward said discharge station;

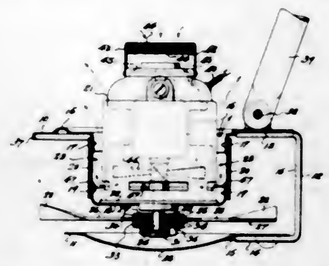
2,660,846
ROLL CRIMPING MACHINE
Harry Christopher Bryans, Three Rivers, Quebec, Canada, assignor to Canadian International Paper Company, Montreal, Quebec, Canada, a corporation of Quebec
Application March 10, 1952, Serial No. 275,820
5 Claims. (Cl. 53—150)



1. In a machine for crimping the projecting ends of a wrapper over the ends of a roll of paper covered thereby wherein is provided a pair of carrier rolls for supporting a wrapped roll of paper, means for positively driving said carrier rolls in the same direction, a pair of collars slidably mounted on one of said carrier rolls and means for positively adjusting the spacing between said collars; the combination of a plurality of two-part crimper elements connected to each of said collars, one part of each crimper element being relatively movable with respect to the other, and means for imparting cyclic movement to each such movable part during each revolution of the associated carrier roll.

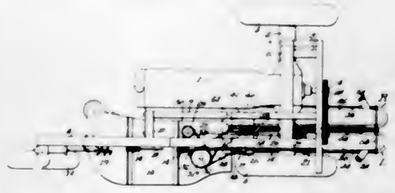
2,660,847
GRASS TRIMMER AND EDGER
Edwin F. Britten III, Short Hills, N. J.
Application June 24, 1950, Serial No. 170,131
2 Claims. (Cl. 56—25.4)

1. In a grass trimmer and edger, a U-shaped carriage frame comprising a top plate and a bottom skid plate, said top plate having an upwardly open well portion dependent therefrom with its bottom end spaced above said skid plate, said well portion having impervious side and bottom walls, an electric motor having a casing affixed to the bottom of said well portion with the upper end thereof projecting outwardly above the open end of said well portion, the motor armature shaft projecting through the bottom of said well portion, a rotary cutting blade fixed on said armature shaft intermediate the bottom of said well portion and the carriage frame skid plate, the motor casing being smaller in diameter than the internal diameter of said well portion,



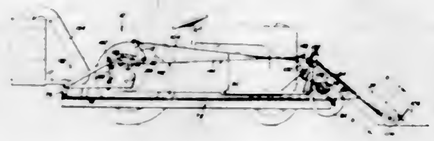
whereby to provide an annular air conducting passage intermediate the motor casing and the side walls of said well portion to open out from the top of said well portion, said motor casing having an air intake means in its upper end and air outlet means leading from its lower interior into said air conducting passage, and an air impeller fan fixed on the motor armature shaft to be driven thereby within the lower interior of the motor casing, said fan being adapted to draw air into the motor casing through its air intake to ventilate the motor and to discharge air from said air conducting passage in an annular stream surrounding the top end of the motor and its air intake, and thus to deflect dust, solid particles, grass and the like away from the latter.

2,660,848
COTTON HARVESTER WITH RETRIEVER MECHANISM
John D. Rust, Pine Bluff, Ark.
Application April 25, 1950, Serial No. 158,037
13 Claims. (Cl. 56—30)



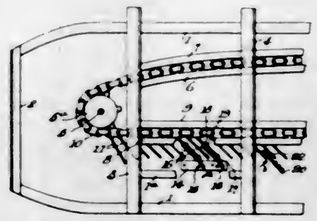
1. In a cotton picking machine wherein a traveling picker unit includes a housing having a plant passageway for passage of the cotton plants therethrough and wherein means are provided within the housing for picking cotton from the plants, the improvement which comprises a cotton retrieving apparatus to retrieve cotton dropping from the plants subsequent to the action of the picking means, said retrieving apparatus including a pair of right-hand and left-hand retrieving units one at each side of the path of travel of the plants leaving the plant passageway, each of said units including a trough, an endless traveling belt having cotton-catching teeth to gather cotton in the trough, means at one place to crowd the cotton toward the belt, and means to remove the cotton from the belt at another place, said crowding means comprising a rotatable roller for cooperating with the toothed belt to form a restricted passage between the roller and the toothed belt, said passage extending the full height of the toothed portion of the belt.

2,660,849
COTTON HARVESTER
James H. Knowles, Tulia, Tex.
Application August 25, 1950, Serial No. 181,438
4 Claims. (Cl. 56—33)



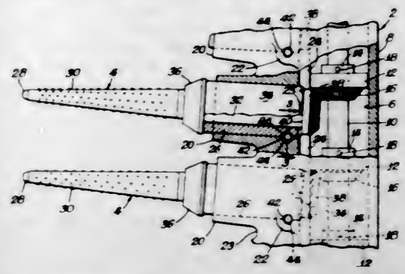
1. A cotton harvesting machine comprising a pair of cases, each having a laterally arranged cotton boll entrance opening therein, means holding said cases spaced from and substantially parallel to each other to thereby provide a cotton plant passage between the cases, said entrance openings facing each other, a cutting auger carried by each case and disposed in each opening, a stationary cutting bar carried by each case in its opening and cooperating with said augers to shear the cotton bolls from the stems of the cotton plants, and means carried by said cases for rotating said augers selectively in opposite directions to shear the bolls from their stems and flip the loose cotton from the plants.

2,660,850
SPINDLE MOISTENER
John D. Rust, Pine Bluff, Ark.
Application April 25, 1950, Serial No. 158,039
4 Claims. (Cl. 56—41)



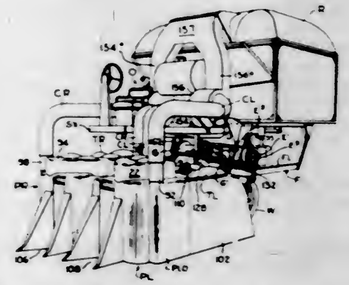
1. A spindle moistener for a cotton picking unit comprising a frame having an endless spindle carrying conveyor, means on said frame for delivering liquid to the spindles on said conveyor, a plurality of resilient wiper members detachably mounted on said frame and positioned in the path of said spindles and disposed substantially in the vertical plane of said spindles when said members and spindles are in engagement, said wiper members engaging said spindles prior to the spindles engaging the cotton, said wiper members upon being flexed by said spindles flipping the excess liquid therefrom in the form of a mist through which said spindles pass.

2,660,851
COTTON PICKER SPINDLE ASSEMBLY MOUNTING
Clarence R. Hagen, Memphis, Tenn., assignor to International Harvester Company, a corporation of New Jersey
Application April 3, 1951, Serial No. 218,935
4 Claims. (Cl. 56—41)



1. In a cotton harvester, a picker mechanism including a support with an opening therethrough, a picker spindle assembly having a bearing portion, said bearing portion being fitted into said opening, said bearing portion having a tangential peripheral slot, said support having an aperture in alignment with said slot, and a resilient pin of C-shaped cross section within the slot and said aperture.

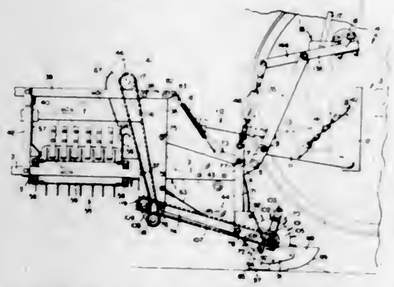
2,660,852
MULTIROW COTTON HARVESTER
Louis A. Paradise, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 1, 1949, Serial No. 119,143
15 Claims. (Cl. 56—47)



1. A cotton-picking machine for operation in a field in which cotton is planted in conventional parallel rows spaced uniformly apart, comprising: a longitudinal mobile frame having a transverse axle and right- and left-hand carrying wheels respectively at opposite ends of the axle to carry the machine forwardly over the field with the longitudinal centerline of the frame centered between a pair of adjacent, right- and left-hand rows, said right- and left-hand wheels being coaxially spaced apart so as to run just to the right and just to the left respectively of said right- and left-hand rows, and the relationship between said wheels and axle being such as to define a forwardly opening accommodation space ahead of the axle and between the inner faces of the wheels; housing structure carried on the frame ahead of the wheels and axle and provided with parallel, fore-and-aft right- and left-hand plant-receiving throats at opposite sides of and

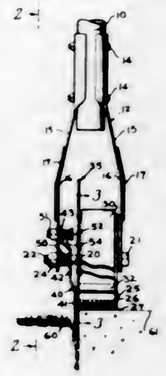
spaced equidistantly from the frame centerline so as to respectively receive plants in the right- and left-hand rows; said structure including relatively long and narrow, right- and left-hand inner compartments respectively between the frame centerline and the right- and left-hand throats; said structure further being of such transverse dimension as to extend laterally rightwardly and leftwardly from the frame centerline respectively ahead of the fronts of the right- and left-hand wheels to right- and left-hand outer sides substantially in longitudinal alinement respectively with the outer faces of said right- and left-hand wheels, whereby the transverse dimension between each throat and its respective outer side of said structure exceeds that between each throat and the frame centerline; said structure also having right- and left-hand outer compartments respectively between the throats and the outer sides of said structure, each outer compartment having a laterally outward extension ahead of the front of the respective wheel and accommodated by said excess transverse dimension; right- and left-hand, transversely alined outer picking elements located respectively in the outer compartments and operative to pick cotton simultaneously from the outer sides of plants received respectively in the right- and left-hand throats; right- and left-hand outer doffing means located respectively in the outward extensions of the outer compartments and ahead of the fronts of the wheels to remove cotton respectively from the outer picking elements; transversely alined right- and left-hand inner picking elements located respectively in the inner compartments and offset to the rear of the outer picking elements but ahead of the axle structure and operative to pick cotton simultaneously from the inner sides of plants received respectively in the right- and left-hand throats; said structure further extending rearwardly into the aforesaid accommodation space ahead of the axle to provide rearward extensions respectively of the inner compartments; and right- and left-hand inner doffing means located respectively in said rearward extensions in transverse alinement and confined to opposite sides of the frame centerline for removing cotton respectively from the inner picking elements.

2,660,853
BEET TOPPER
Herman E. Altgelt, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 7, 1949, Serial No. 120,114
9 Claims. (Cl. 56—121.45)



1. A beet topper comprising a frame, a vertically adjustable topping knife, a generally vertically adjustable finder wheel unit interconnected with said topping knife for varying the position of the latter, said finder wheel unit including one or more pronged top-engaging wheels, means for rotating the latter to engage the beet tops removed by said topping knife, conveyor means for receiving the tops from said finder wheel unit and including conveyor chains having top-engaging fingers the outer ends of which, at the lower forward part of said conveyor means, extend forwardly toward and pass relatively close to the prongs on the adjacent portions of the top-engaging wheels of the finder wheel unit so as to pick up beet tops from said finder wheel unit, and means rotatable about an axis parallel to the axis of said finder wheels for supporting the forward portions of said conveyor chains.

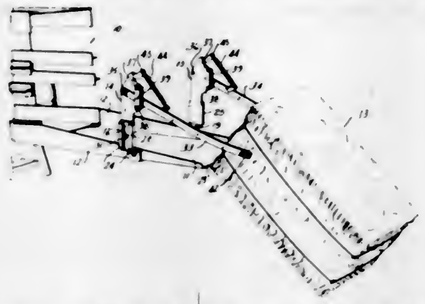
2,660,854
LAWN TRIMMER
Earl L. Chadwick, Houston, Tex.
Application November 5, 1951, Serial No. 254,883
6 Claims. (Cl. 56—256)



1. A lawn and garden tool for edging, trimming and shearing grass and the like comprising, a handle, a forked bracket attached thereto, an axle mounted on said forked bracket, a rotatable ground-engaging wheel on said axle. A shearing disc mounted on said axle for rotational movement with said wheel, a shear plate having an oversize opening therein for receiving said axle for the mounting of said shear plate on said axle, a shearing blade on said shear plate extending below said axle, shearing teeth at the periphery of said shearing disc, an arm on said shear plate extending above said axle, bolt means for holding said arm to prevent rotation of said shear plate with respect to said forked bracket, said shearing teeth rotating upon rotation of said wheel to provide a shearing action with said shearing blade on grass and the like, and a knee action spring assembly including a spring positioned on said axle between said shear plate and said forked bracket to urge said shear plate toward said shearing disc and a second spring on said bolt means to normally urge said arm against said forked bracket.

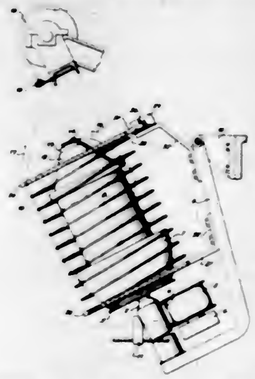
2,660,855
HAY BALE DEPOSITING DEVICE
George A. Voight, Shiocton, Wis.
Application December 1, 1949, Serial No. 130,458
10 Claims. (Cl. 56—473.5)

1. A hay bale depositing device mounted at the delivery end of the bale trough of a hay baler comprising the combination with the delivery trough of arms pivotally mounted at opposite sides of the trough and having free ends extending rearwardly beyond the delivery end of the trough, said free ends being convergent from their mountings toward each other and being resiliently yieldable away from said convergence



whereby said free ends are positioned to embrace a bale of hay traveling down the trough, said arms being downwardly swingable on their pivotal mountings to guide said hay bale downwardly beyond the delivery end of the trough.

2,660,856
BALLOON GUARD
Chadwick B. Kingsbury, Elizabethton, Tenn., assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware
Application September 29, 1949, Serial No. 118,646
13 Claims. (Cl. 57—108)



8. A balloon guard for twisting spindles comprising an enclosure of substantially the same shape as the balloon and formed by extending a springy coiled structure constituted of helically wound convolutions of resilient material, said guard being collapsible so as to occupy a minimum of space when not in use as an enclosure, means for locking said guard in extended condition, and means for locking said guard in collapsed condition when said first means is released.

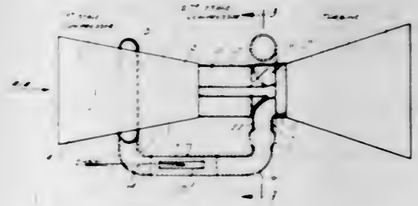
2,660,857
CASE FOR TIMEPIECES AND THE LIKE
Louis R. Burghoff, Forestville, Conn., assignor to The E. Ingraham Company, Bristol, Conn., a corporation of Connecticut
Application August 21, 1951, Serial No. 242,894
5 Claims. (Cl. 58—53)

1. A timepiece, comprising a case having outer back, side and front walls of slightly resilient material of which said front-wall is provided with a dial-aperture spaced inwardly from said side-wall, and a wall extension integral with said front-wall and surrounding said dial-aperture and being at the latter folded back into the case in spaced relation with said front-wall



to form in said case an endless flange extending from said dial aperture toward said side wall; a movement; and means solely mounting said movement in said case on said flange therein so that said movement is spaced from any of said outer walls.

2,660,858
AIR-COOLING GAS TURBINE BLADE
Lester C. Lichty, New Haven, Conn., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application May 3, 1948, Serial No. 24,721
6 Claims. (Cl. 60—39.19)

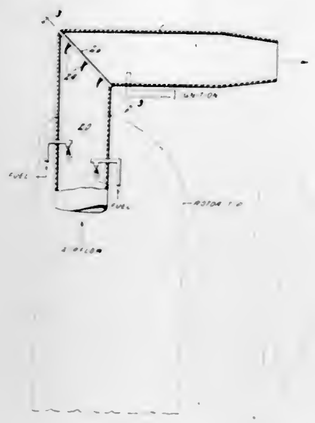


6. In a gas turbine system, a gas turbine including a rotor, radial peripheral blades on said rotor and a plurality of circumferentially spaced stationary nozzles adjacent said blades on the upstream side thereof, a combustor for supplying heated gases to selected stationary nozzles, a first compressor for supplying compressed air to said combustor, and means including a second compressor for supplying coolant under pressure to other selected stationary nozzles.

2,660,859
COMBINED FLAMEHOLDER AND TURNING VANE
John Chamberlain, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application June 18, 1952, Serial No. 294,144
4 Claims. (Cl. 60—39.72)

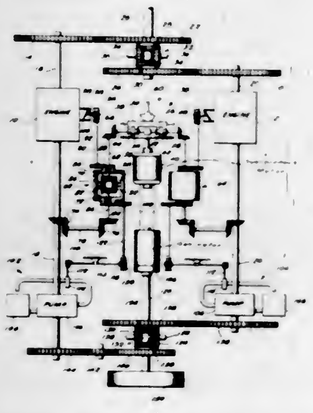
1. In a burner comprising a duct through which a gas flows, said duct including two duct portions having their axes disposed at an angle to each other, a duct section forming a joint between said two duct portions, and at least one combined turning vane and flameholder in said section having its span running substantially transversely the axis of gas flow, said vane having upper and lower surfaces which diverge concontinuously in a downstream direction and

means for injecting fuel upstream of said duct section and mechanism adjacent said section for



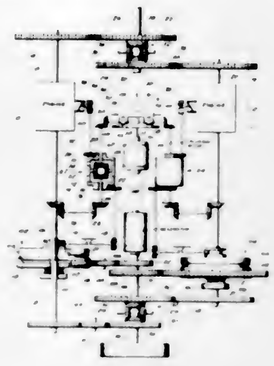
igniting the gas fuel mixture whereby combustion takes place downstream of said section.

2,660,860
VARIABLE SPEED AND DIRECTION POWER UNIT
Alex Taub, Washington, D. C., assignor to Taub Engineering Company, Washington, D. C., a corporation of Delaware
Application May 15, 1950, Serial No. 162,062
5 Claims. (Cl. 60—97)



1. A variable speed and direction power drive comprising: a pair of power units; a differential gear unit having opposite gears and an orbital gear with said opposite gears connected to said power units for drive thereby in opposite directions and for power takeoff from said orbital gear; compensator means associated with said power units for changing their speed equally and oppositely from a predetermined equal speed; and a pair of adjustable torque absorbers each driven by one of said power units and both connected to said speed compensator for adjustment thereby to vary the resistance to each power unit in accordance with its speed.

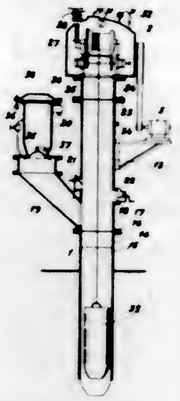
2,660,861
VARIABLE SPEED AND DIRECTION POWER UNIT
Page Marston Schmitt, Bethesda, Md., assignor to Taub Engineering Company, Washington, D. C., a corporation of Delaware
Application February 14, 1952, Serial No. 271,542
9 Claims. (Cl. 60—97)



1. A variable speed and direction power drive comprising: a pair of power units: a differential gear unit having opposite gears and an orbital gear with said opposite gears connected to said power units for drive thereby in opposite directions and for power takeoff from said orbital gear; compensator means associated with said power units for selectively changing their speed equally and oppositely from a predetermined equal speed; a pair of adjustable torque absorbers each driven by one of said power units and both connected to said compensator means for varying the torque absorption of each absorber in accordance with the output of the driving power unit, each said absorber having a rotatable reaction member; and gear means for regeneratively adding at least a part of the reaction torque of each said absorber to the output torque of said orbital gear.

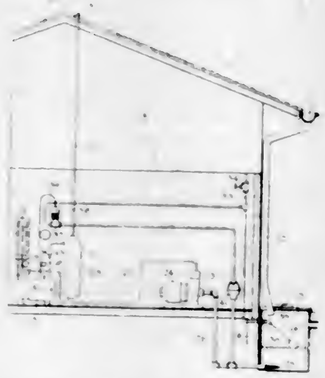
2,660,862
APPARATUS FOR CONSTRUCTING POSTS IN THE GROUND
Julian Capblanch, Barcelona, Spain
Application September 10, 1949, Serial No. 115,072
Claims priority, application Spain September 25, 1948
8 Claims. (Cl. 61—63)

1. An apparatus for constructing posts of concrete in a well in water-containing ground, comprising in combination, a hollow tube placed vertically in the ground; an extension connected to the upper end of said tube; a concrete delivering device connected to said extension; a motor-driven drum arranged at the upper end of the extension; a device suspended from said drum for pressing the concrete into said tube; a chamber arranged at the upper end of said extension and containing said drum; said chamber, said extension, said tube and said concrete-delivering device; and means for maintaining under air pressure said chamber, said extension and said tube, while the concrete is dryly pressed into said tube by said device suspended from said drum, the concrete passing through the lowest portion of said tube being allowed to fall to the bottom of the



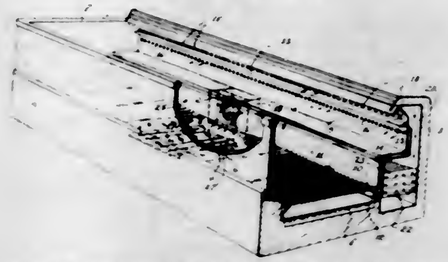
well so that the concrete expands and penetrates at least partly into the ground.

2,660,863
RESIDENTIAL AIR CONDITIONING SYSTEM
Carlton Mason Gerhart, Jr., York, Pa., assignor to York Corporation, York, Pa., a corporation of Delaware
Application January 16, 1953, Serial No. 331,614
6 Claims. (Cl. 62—6)



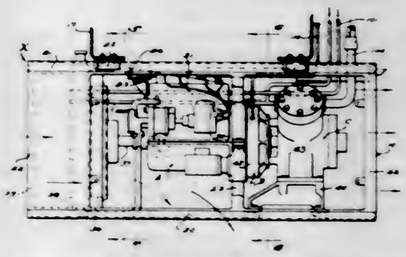
1. The combination of a house having a roof which is inclined sufficiently to cause water to flow across it from a higher to a lower portion; water collecting means for receiving water which flows from said lower portion; a refrigerative conditioning plant for the interior of said house, said plant having a high side including a condenser of the water cooled type; water distributing means for discharging water to the higher portion of the roof; a motor driven pump; connections whereby said pump passes water derived from said collecting means first in cooling relation with said condenser and then through said distributing means to the roof; means responsive to depletion of the water supply in said collecting means for delivering make-up water; and means responsive to excess pressure in said high side for delivering make-up water directly to said pump.

2,660,864
REFRIGERATED DISPLAY CASE
Harry A. Morris, Trenton, N. J., assignor to C. V. Hill & Company, Inc., Trenton, N. J., a corporation of New Jersey
Application August 15, 1951, Serial No. 241,956
7 Claims. (Cl. 62—89.5)



1. A refrigerated display case having a display space closed about its sides and at the bottom but being open at the top for access to the customers, said display case being provided with an air circulating duct having inlet openings communicating with said display space near the top of the case, said case having refrigerating means in heat exchanging relation with air circulated through said duct, a fan operable to circulate air downward through said duct and serving to discharge said air from the duct into the bottom of the display case, said case having a secondary air circulating passage communicating with the lower portion of said case and having discharge openings located at a point above the normal level of articles in said display space but well below the top of said case.

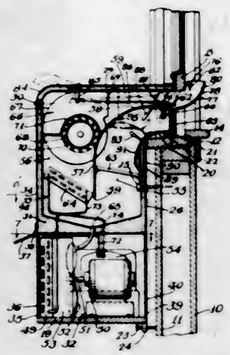
2,660,865
REFRIGERATION AND AIR CONDITIONING EQUIPMENT
Wilbur G. Durant, Pasadena, Calif., assignor, by mesne assignments, to Transicold Corporation, Los Angeles, Calif., a corporation of California
Application March 6, 1950, Serial No. 147,778
8 Claims. (Cl. 62—117.1)



1. Refrigerating apparatus of the character described including, a prime mover including a housing and a rotating element projecting from the housing, a refrigerant handling unit, a refrigerant compressor supplying refrigerant to the said unit and operated by the prime mover, an electric generator operated by the prime mover and in synchronism with the compressor and including a case attached to the housing of the prime mover and a rotor attached to said element, said housing and said case being located at adjacent ends of the prime mover and compressor, respectively, and enclosing said generator, an air circulator, and an electric motor driving the circulator and operated by current

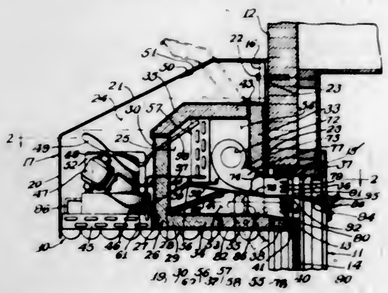
from said generator, the prime mover, generator and compressor being arranged as a compact unit and in axial alinement, with the generator positioned between and operatively coupling the prime mover and compressor.

2,660,866
WINDOW MOUNTED AIR CONDITIONER
Phillip R. Tipton, Chandler, and William F. Borgerd, Evansville, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application May 5, 1951, Serial No. 224,781
9 Claims. (Cl. 62—129)



1. The combination of an air conditioning unit comprising a cabinet positioned outside a building adjacent a window which opens into a room; said cabinet provided with a duct which projects into said window and terminates adjacent a sash so that the sash can be opened and closed; means for drawing room air through said duct into said cabinet, cooling the air therein and returning it to the room through said openings; and a splitter bar which directs warm air from the lower portion of the room into the duct and cold air from the duct into the upper portion of the room.

2,660,867
OUTSIDE MOUNTED AIR CONDITIONING UNIT
William F. Borgerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application May 5, 1951, Serial No. 224,782
8 Claims. (Cl. 62—129)



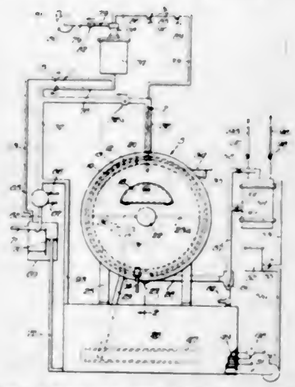
1. The combination of an air conditioning unit comprising a casing positioned outside a room above a window; a duct which projects into said window and terminates adjacent a sash so that the sash can be opened and closed; means for drawing room air through said duct into said casing, cooling the air and returning it to the room through said duct; and a splitter bar positioned in front of said duct in order to direct warm air from the lower portion of the room into the duct and cold air from the duct into the upper portion of the room.

2,660,868
STOCKING
Kurt F. Naumann, Stony Creek Mills, Pa., assignor to Rosedale Knitting Company, Reading, Pa., a corporation of Pennsylvania
Application July 28, 1950, Serial No. 176,313
1 Claim. (Cl. 66—179)



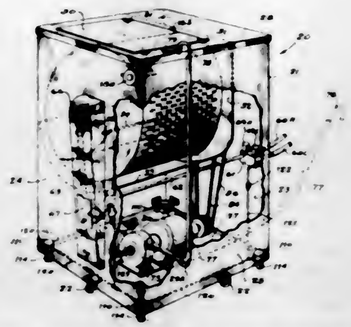
As a new article of manufacture, a full-fashioned stocking with a closure seam extending longitudinally of the back of the leg and foot bottom, produced mainly from non-absorbent yarn, and having, at opposite sides of the seam in the region of the ball portion of the foot, complemental panel areas of absorbent yarn which extend partway into the instep from the seam and which are knitted into selvage loops of the instep.

2,660,869
DRY CLEANING APPARATUS
Dan McDonald, Aurora, Ill., assignor to Aurora Research Industries, Inc., Aurora, Ill., a corporation of Illinois
Application October 23, 1951, Serial No. 252,628
11 Claims. (Cl. 68—18)



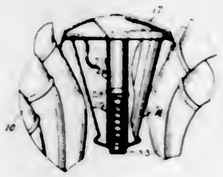
1. In dry cleaning apparatus, a storage tank for a chlorinated hydrocarbon of a character to form an azeotrope with water, means for maintaining the chlorinated hydrocarbon in said tank free of water, a treating vessel, a filter, and selective means for continuously circulating water-free solvent from said tank through said filter to either said tank or said vessel.

2,660,870
CLOTHES-WASHING AND EXTRACTING APPARATUS
Edward F. Kennedy, Chicago, Ill.
Application August 20, 1948, Serial No. 45,305
4 Claims. (Cl. 68—24)



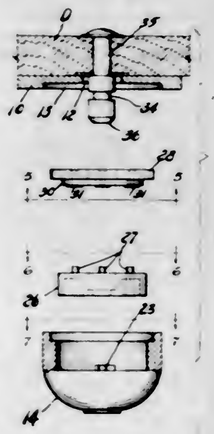
3. In a clothes washing machine of the tumbler type, a washing compartment adapted to contain water, a perforated drum rotatably supported in said compartment on a substantially horizontal axis, means for rotating said drum at a high extracting speed in a first direction, and means for rotating said drum in the other direction at a relatively low washing speed, and a baffle shiftably mounted in said drum and on a part thereof for movement by contact with water in the bottom of said drum to an active position extended substantially radially inwardly of said drum when the drum is moved in said second direction and to an inactive position adjacent to the inner face of the peripheral wall of the drum when the drum is rotated in said first direction.

2,660,871
HOOK GUARD
David G. Anderson, Jamestown, N. Y.
Application August 18, 1951, Serial No. 242,551
2 Claims. (Cl. 68—235)



1. A guard for enclosing the free ends of a plurality of hooks attached to a fabric article comprising a conical hollow body, the large end of said body providing an annular seat, a plate closing the large end of said body, said plate being mounted on said seat and permanently secured to said body, said plate having a series of apertures arranged about a common radius with respect to the plate's center for receiving the free ends of said hooks, a cap providing overlapping enclosure for the large end of said body and for portions of hooks located above said plate, an axially movable shaft mounted in and extending substantially the length of said body, one end of said shaft being joined to and serving to support said cap, and means yieldingly urging said shaft into a position to effect overlapping abutment of said cap with said body end.

2,660,872
PADLOCK FOR USE WITH HASPS
Arthur W. Beach, Chicago, Ill.
Application June 3, 1950, Serial No. 166,030
3 Claims. (Cl. 70—32)

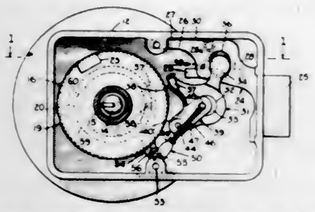


2. In a lock adapted to fit over and secure to a locking bolt having a groove therein, a housing having a closed end wall with an aperture therethrough, the opposite end of said housing being open, a key actuated cylinder revoluble in said aperture and extending into said housing, a disk member operatively associated with said cylinder to rotate therewith, a stationary plate forming a closure for the open end of the housing and having an opening therein through which said locking bolt may extend into said housing, arcuate segment members pivotally mounted on the inner face of the stationary plate and swingable into locking position in said groove in said bolt, and means on said disk member in operative engagement with said segment members to move them into and out of said groove when said key cylinder is actuated.

2,660,873
COMBINATION LOCK
Maurice D. Bennett and Frank T. Zixzi, Stamford, Conn., assignors to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application August 11, 1949, Serial No. 109,722
21 Claims. (Cl. 70—133)

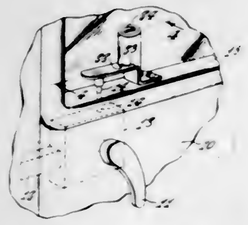
11. In a lock of the class described having a main fence and a series of tumblers mounted for sequential rotation in a predetermined axis by one of said tumblers termed the driver tumbler, said tumblers having gatings for the entry of said main fence, a feeler fence, means whereby said feeler fence enters said gatings upon alignment

thereof, and means whereby the movement of said feeler fence thereafter by said tumblers through



said gatings effects the movement of said main fence.

2,660,874
SAFETY LOCK FOR AUTOMOBILE DOORS
Frank Ziomek, Brooklyn, N. Y.
Application October 1, 1951, Serial No. 249,064
7 Claims. (Cl. 70—181)



1. In a vehicle door having a slide bolt lock for locking the bolt in extended position and including a window sill and a pin vertically slidably mounted in said sill engageable with said bolt for locking said bolt in extended position when said pin is depressed, the improvement consisting of an auxiliary lock for releasably locking said pin in depressed position comprising an upright member mounted on said sill adjacent said pin, said upright member having a lock barrel rotatably mounted thereon in verticle position above said sill, said barrel having a horizontal tongue secured to the lower end thereof, said tongue being adapted to be swung horizontally from a position directly above and in contact with the top of said pin when said pin is depressed, through an arc to a position wherein said tongue is clear of said pin, and a key insertible into said barrel for thus swinging the same.

2,660,875
CLOSURE LOCK
Deane N. Jewett and Richard S. Jewett, Detroit, Mich., assignors to Detroit Hardware Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application September 7, 1949, Serial No. 114,422
3 Claims. (Cl. 70—352)

1. A closure lock adapted to be actuated by a conventional key-operated cylinder lock cam, said lock comprising a lock case having front and rear surfaces and a bore extending therebetween, a lock bolt reciprocably mounted in said bore and having a transversely-disposed guideway therein, said case having an elongated open-ended slot in one of the side walls of said bore extending from an open end at one of said surfaces toward the other surface in a direction parallel to the direction of reciprocation of said bolt, a tumbler reciprocably mounted in said guideway and reciprocably engageable with said cam, said tumbler having a recess extending inwardly from one end thereof and a projection extending laterally from the other end thereof into said slot, and a spring disposed in said



recess and guideway for yieldingly urging said tumbler against said cam, said slot having an offset notch in one edge thereof configured to receive said lateral projection of said tumbler in one position of said bolt.

2,660,876
SIDE BAR CYLINDER LOCK
Roy C. Spain, Salem, Va., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application May 10, 1949, Serial No. 92,370
15 Claims. (Cl. 70—362)

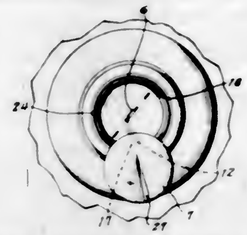


1. In a lock of the class described, a key plug, a series of tumblers movably mounted in said key plug, a cylinder having a bore in which said key plug is rotatably mounted, said key plug and cylinder having grooves that are aligned in one rotated position of said key plug relatively to said cylinder bore, outer and inner cylindrical pins lying in said grooves, said tumblers coacting with said inner pin in said key plug groove to hold at least one of said pins in a position partially in said cylinder groove and partially in said key plug groove, said tumblers having gatings adapted for alignment with said key plug groove so as to allow said one of said pins to move entirely out of said cylinder groove as the inner pin moves into said tumbler gatings whereby to release said key plug for rotation.

2,660,877
KEYHOLE COVER FOR LOCK CAPS
Abraham M. Malouf, Los Angeles, Calif.
Application July 30, 1951, Serial No. 239,327
1 Claim. (Cl. 70—455)

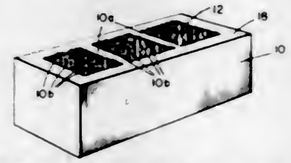
In cap construction for gasoline tanks, the said cap housing a central barrel lock and having an outwardly positioned keyhole opening, said cap

formed with an annular flange surrounding the top of the barrel lock, with the said flange formed with an inner annular inclined wall, a cover eccentrically mounted for rotation on said cap and provided with an inclined wall complementary to the annular inclined wall of the cap and a wedge-



shaped ledge on the annular flange of the cap, the said ledge being located 90° from the eccentric mounting for the cover, whereby rotation of the cover relative to the cap is permitted in one direction to uncover the keyhole opening and counter-movement of said cover from keyhole cover position is prevented by said ledge.

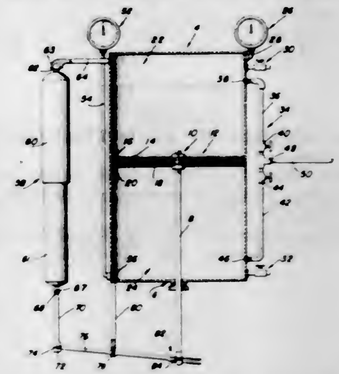
2,660,878
HOLLOW MASONRY BUILDING UNIT
Vern A. Barnhart, Athens, Ohio
Application September 11, 1946, Serial No. 696,283
7 Claims. (Cl. 72—41)



1. A hollow masonry building unit having at least one interior void which opens at opposite ends into opposite mortar bonding faces of the unit and is otherwise enclosed by walls whose interior surfaces have numerous scarifications disrupting them and rendering them rough and porous, said scarifications comprising alternate ridges and furrows lying side-by-side along said wall surfaces and extending substantially perpendicularly to and individually intersecting and opening into said opposite mortar bonding faces, so that the excess of mortar applied to said bonding faces and exuding therefrom in the laying of the units will tend to flow naturally into and along said furrows and cling to said rough wall surfaces, and excess liquid in said mortar will be absorbed through said porous wall surfaces into the body of the unit.

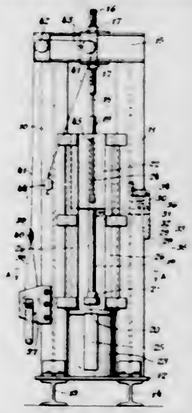
2,660,879
SHOCK ABSORBER TESTING AND INDICATING APPARATUS
William L. Allen, Searcy, Ark.
Application May 27, 1952, Serial No. 290,213
1 Claim. (Cl. 73—11)

An apparatus for testing the efficiency of operation of a vehicle shock absorber comprising a closed cylinder, a piston operable in said cylinder and dividing the latter into upper and lower chambers, a rod secured to said piston and operable through a stuffing box in the bottom of the cylinder and extending below said bottom, a motion transmitting lever, means pivotally supporting an intermediate portion of said lever from said cylinder, one end of said lever being operatively connected with said piston rod, a bracket secured to an upper portion of said cylinder and projecting at right angles from the cylinder and adapted to support one part of said shock absorber, a link pivoted to the other end of said lever and adapted to provide a pos-



itive operating connection with the other part of said shock absorber, a pressure indicating gage connected to said upper chamber, a second pressure indicating gage connected to the lower chamber, a bleeder valve connected to the upper chamber, a bleeder valve connected to the lower chamber, and means for delivering air under pressure to said chambers.

2,660,880
APPARATUS FOR USE IN DETERMINING THE ULTIMATE TENSILE STRENGTH OF STEEL UNDER IMPACT CONDITIONS
Arthur Cecil Vivian, London, England
Application December 10, 1949, Serial No. 132,227
5 Claims. (Cl. 73—12)



1. Apparatus for determining the ultimate tensile strength, effective ductility and reduction in area of steel and the like comprising a rigid frame having support means from which a test bar is adapted to depend, an anvil bar having an anvil at its lower end, said anvil bar being adapted to be connected to the lower end of said test bar, and an annular weight slidably mounted on said frame surrounding said anvil bar and slidable therealong and releasably supported on said frame at a predetermined distance from said

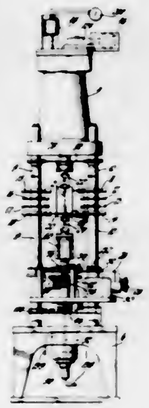
anvil, said weight being provided with a recess at its lower end shaped to correspond to the shape of said anvil, releasing means for said weight mounted on said frame whereby on release of said weight it slides down the anvil bar due to gravity so that the recess of the weight and the anvil form a tight fit, with the energy produced causing said test bar to stretch and fracture, and means mounted on said frame for measuring the residual energy of the weight and the anvil bar including the anvil after said test bar has been fractured.

2,660,881

CREEP TESTING OF HIGH-TEMPERATURE ALLOYS

Thomas C. Van Degrift, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 29, 1947, Serial No. 782,855
4 Claims. (Cl. 73—15.6)



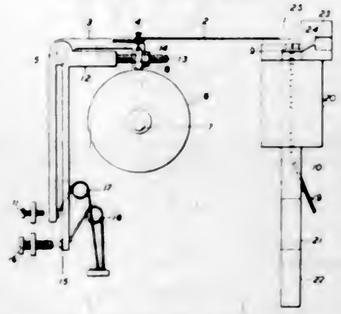
1. Apparatus for determining the effect of tensile and vibratory stresses on a material at a high temperature including: a pair of attaching members adapted to support a test piece, resilient means attached to one of said attaching members, means to apply a force to said resilient means to create a tensile stress in the test piece, electrical means responsive to movement of said one attaching member operable to move the other of said attaching members so that the tensile stress will be constant regardless of elongation strain of the test piece, means to apply a vibrating stress to the test piece and including rotating eccentric weights acting through a journal to transmit vibratory forces to the said one attaching member and including means to limit vibration of the other of said attaching members, means to apply heat to the test piece including a shield surrounding said test piece, and means to apply heat to the exterior of said shield to maintain the test piece at a constant temperature, means to measure the elongation stress of the test piece, and means permitting the determination of the tensile force applied to the test piece.

2,660,882

APPARATUS FOR DETERMINATION OF THE TEMPERATURE OF DEPOSITION OF ELECTRICALLY NONCONDUCTING SOLIDS FROM GASES

Thomas John Webster, London, England, assignor to The British Oxygen Company Limited, London, England

Application April 2, 1952, Serial No. 280,116
Claims priority, application Great Britain April 9, 1951
3 Claims. (Cl. 73—17)



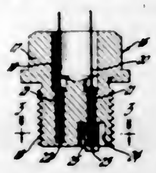
1. Apparatus for the determination of the temperature of deposition of an electrically nonconducting solid from a gas which comprises an electrical conductor arranged to form part of an electric circuit, an electrically conducting feeler also included in said electric circuit, means for making and breaking contact between the surface of said conductor and an end of said feeler at frequent intervals thereby making and breaking the circuit at frequent intervals at the surface of the conductor, means for passing a stream of the gas over the said surface, means for progressively reducing the temperature of said surface and means for indicating the temperature of said surface at which completion of the electrical circuit ceases to take place owing to the formation of a deposit of the electrically non-conducting solid on said surface.

2,660,883

DEVICE FOR DETERMINING BORDERLINE DETONATION

Floyd A. Wyczalek, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application November 19, 1949, Serial No. 128,347
2 Claims. (Cl. 73—35)



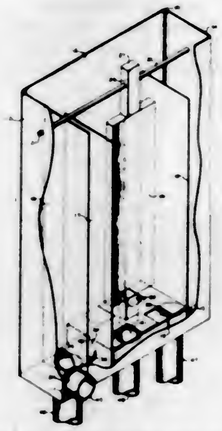
1. A temperature change responsive device comprising a metallic body adapted to be subjected to a medium having variations in temperature and having parts simultaneously subjected to the same temperatures in said medium but having different heating rates by said medium, and a pair of conductors formed of metal differing from the metal of said body, one of said conductors being electrically connected at one end to one of said parts and the other being electrically connected at one end to the other of said parts, the opposite ends of said conductors being adapted to be connected across electrical potential responsive means.

2,660,884

SLIME MEASURING UNIT

Charles W. Dean, Memphis, Tenn., assignor to Buckman Laboratories, Inc., Memphis, Tenn., a corporation of Tennessee

Application July 2, 1948, Serial No. 36,746
2 Claims. (Cl. 73—53)



1. A device for measuring the slime in a liquid comprising a vessel having an open top, said vessel having an inlet aperture adjacent its bottom for admitting liquid and a plurality of liquid discharge apertures in its bottom, a plurality of vertical partitions in said vessel forming compartments, one of said compartments constituting a liquid by-pass, a test panel disposed in another of said compartments, the remaining compartments communicating with said discharge apertures, means for conducting liquid from said inlet aperture to the lower end of said panel containing compartment whereby said liquid may flow upwardly therethrough, said inlet aperture also communicating with said by-pass compartment adjacent the lower end thereof whereby liquid may flow upwardly through said panel containing compartment being discharged into said remaining compartments for downward flow therethrough, any excess liquid flowing through said inlet aperture occasioned by an increase of head thereon flowing upwardly through said by-pass compartment and being discharged downwardly through one of said remaining compartments thus maintaining a substantially constant flow of liquid through said panel containing compartment whereby slime will be deposited on said test panel in substantially direct proportion to the slime in said liquid.

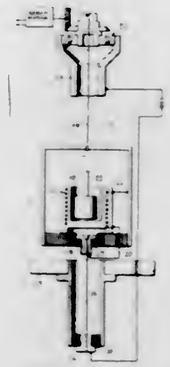
2,660,885

RECORDING VISCOSIMETER

Leon M. Evans, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application July 24, 1951, Serial No. 238,308
4 Claims. (Cl. 73—59)

1. In a viscosimeter of the type in which the force reaction to a member rotatably driven in the liquid undergoing test is measured to indicate the liquid viscosity, the combination comprising: a frame forming a support for the viscosimeter; a container for the liquid undergoing test; a rotor member supported for rotation within said container; a mechanical suspension for said container including a yoke member to which said container is rigidly attached, and a pair of torsionally resilient wires attached at one end of each to the top and bottom of said yoke member, the other ends of said wires being attached to



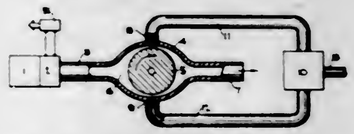
said frame to support the container and yoke assembly in torsionally resilient fashion in said frame; insulating means interposed between at least one of said wires and said frame; an electrical heating element mounted on said container in heat exchange relation thereto; means connecting the yoke ends of said wires to said electrical heater; and means affording connection to the outer ends of said wires to a source of electrical energy.

2,660,886

PNEUMATIC SPEED SENSING UNIT

Oswald H. Milmore, Berkeley, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application April 17, 1951, Serial No. 221,375
4 Claims. (Cl. 73—136)



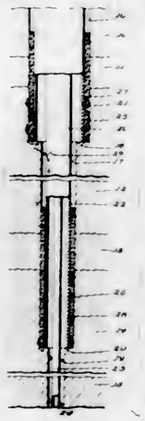
1. A method of obtaining an indication proportional to the product of rotational speed and a multiplier quantity, comprising the steps of rotating a body of circular cross-section at a speed proportional to that to be measured, measuring a condition independent of said speed to obtain a multiplier quantity, flowing a fluid at a controlled rate proportional to said multiplier quantity in a direction perpendicular to the axis of rotation of said body through a gap space around said body, thereby developing a pressure difference between two points in said gap, said points lying on opposite sides of said body substantially along a diametrical line passing through said body at right angles to the direction of fluid flow, said pressure difference being proportional to the product of the speed to be measured and of said multiplier quantity, and indicating said pressure difference.

2,660,887

METHOD FOR DETECTING THE SOURCE AND ANALYZING THE FLOW OF WATER INTRUSIONS IN OIL WELLS

Frederick Frei, Los Angeles, Calif.

Application September 1, 1950, Serial No. 182,770
19 Claims. (Cl. 73—155)



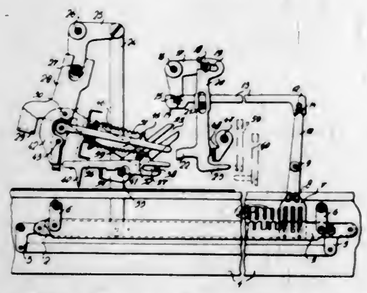
19. The method of determining the source of water in the bottom of a well bore wherein a water seal is established by cementing at at least one water bearing strata, consisting of associating with said cement seal an identifiable substance adapted to be washed into the bore hole in the event of leakage by said seal and subsequently analyzing the water in the well bore to determine the presence of said identifiable substance as an index of a leak in said seal.

2,660,888

CHECKING DEVICE FOR PERFORATOR AND PERFORATOR TAPES

Cornelis Hendricus Stuivenberg, Haarlem, Netherlands

Application August 6, 1947, Serial No. 766,762
In Germany February 14, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires February 14, 1965
11 Claims. (Cl. 73—156)



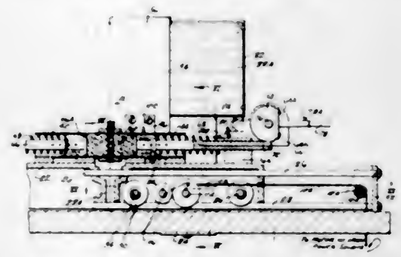
1. A device for sensing perforated records, which comprises in combination, supporting means for supporting a record to be sensed, sensing means normally spaced from said supporting means to allow insertion of a record to be sensed between said supporting means and said sensing means, said sensing means comprising a feeler pin adapted to enter a perforation in said record, a carrier arranged to move in a direction substantially transverse to the direction of movement of said pin when entering a perforation, said carrier supporting said pin, control means operatively associated with said carrier and operable to move said carrier in said transverse direction, means for actuating said control means in response to the initiation of a sensing operation, and abutment means associated with said carrier and operable in response to the entering of said pin into a perforation to prevent said control means from moving said carrier and thereby also said pin in a transverse direction.

2,660,889

FIBER TESTER

Ralph S. Hoisington, Memphis, Tenn.

Application January 2, 1952, Serial No. 264,449
13 Claims. (Cl. 73—159)



5. A fiber tester comprising an elongated base and parts carried thereby including a stationary tubular holder secured to said base and a movable tubular holder longitudinally shiftable along said base into end abutting relation with said stationary holder to cooperatively receive with said stationary holder an elongated test sample of loosely massed fibers for testing, compressing means respectively at opposite ends of said holders, means coupled to said stationary holder and means coupled to movable holders respectively, for moving said compressing means longitudinally and oppositely inward and longitudinally compressing said sample of fibers in said holders, means in immediate adjacency to the abutting ends of each respectively of said holders for resisting sample displacement with respect to its said holder, means for exerting sample rupturing pull on said movable holder away from said stationary holder against resistance of said sample, said pull means including an interposed portion incrementally increasing to said rupturing pull and thereafter incrementally decreasing as separation of the end portions of said sample is completed, and means including cooperating parts coupled respectively to said stationary and said movable holders for indicating the increasing amount of said pull to said rupture point and the decreasing amount of said pull therebeyond and the relative extension of said sample under said pull.

2,660,890

TIRE PRESSURE GAUGE

Orion F. Fletcher, Denver, Colo.

Application July 17, 1950, Serial No. 174,247
2 Claims. (Cl. 73—409)

1. A tire gage comprising, an elongated transparent member having a relatively long bore extending longitudinally thereof, means comprising a plug-like member of rubber having self sealing properties closing one end of the bore, the other end being of enlarged diameter forming a liquid chamber, an elongated tubular diaphragm extending into the liquid chamber, means forming a seal between the end of the tubular member and the open end of the diaphragm whereby a closed chamber is formed for the liquid which surrounds the tubular diaphram, whereby when the tubular diaphragm is expanded in response to internal pressure some of



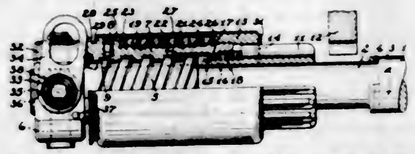
the surrounding liquid will be displaced and move into that part of the bore of smaller diameter compressing air therein and increasing the air pressure, whereby the distance that the liquid moves into that portion of the bore of smaller diameter will correspond to the pressure in the tubular diaphragm.

2,660,891

ENGINE STARTER DRIVE

James J. Digby, Elmira, N. Y., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware

Application March 5, 1951, Serial No. 213,943
6 Claims. (Cl. 74—7)



1. In an engine starter drive a power shaft, a screw shaft fixed thereon, a control nut threaded on the screw shaft, a pinion slidably journalled on the power shaft for movement into and out of mesh with a gear of the engine to be started; means connecting the control nut to the pinion including an overrunning clutch, a radial pin fixed to the screw shaft, an abutment member pivoted thereon for movement into and out of position for blocking the demeshing movement of the pinion, and centrifugally releasable means for holding the abutment member in blocking position.

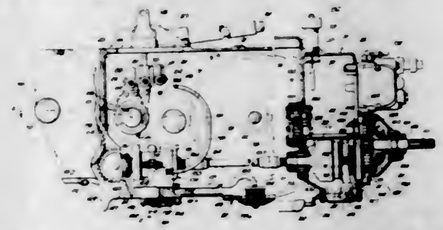
2,660,892

POWER TRAIN FOR VEHICLE POWER TAKE-OFF SHAFT AND AUXILIARY UNIT

James S. Ross, Waterloo, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa

Continuation of application Serial No. 43,736, August 11, 1948. This application March 1, 1952, Serial No. 274,360
15 Claims. (Cl. 74—15.63)

1. In a vehicle having a longitudinal body, an engine-driven member at a forward portion of the body, a change-speed transmission rearwardly of the engine-driven member, and clutch means selectively connectible and disconnectible between the engine-driven member and the change-speed transmission, the improvement comprising: a first power shaft part journaled in the body and directly connected to the engine-driven member independently of the change-speed transmission and extending longitudinally rearwardly from said engine-driven member and rearwardly beyond the change-speed transmission; a second power shaft part coaxial with and disposed rearwardly of the first power shaft part; clutch means selectively connectible and disconnectible between said power shaft parts; a power take-off shaft offset from and disposed rearwardly of the second power shaft part and extending rearwardly of the vehicle body; gear means interconnecting the sec-



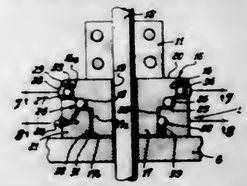
ond shaft part and the power take-off shaft, including a relatively small external gear fixed to the second power shaft part and a larger internal gear fixed to the power take-off shaft and in constant mesh with said smaller gear; first auxiliary driven means carried by the body and including a rotatable part; means drivingly interconnecting said auxiliary driven means and the power take-off shaft, including an external gear fixed to the rotatable part of the auxiliary driven means and in constant mesh with the internal gear on the power take-off shaft; second auxiliary driven means carried by the body including a lubricating pump adjacent the change-speed transmission and having means for supplying lubricant to the transmission; and driving means operatively interconnecting said pump and the first power shaft part.

2,660,893

ROD ROTATOR FOR DEEP WELL PUMPS

John L. Paterson, Long Beach, Calif., assignor to Willis Oil Tool Company, Long Beach, Calif., a limited partnership

Application November 1, 1948, Serial No. 57,787
19 Claims. (Cl. 74—21)



1. A pump rod rotator comprising: a body member adapted to support a string of pump rods; means for rotatably supporting said member by a reciprocating portion of a well pumping equipment; an operating member supported by said means for rotary movement independently of said body member and coaxial therewith; means for imparting oscillating movement to said

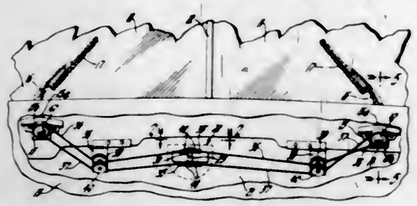
operating member; means coupling said members to move together in response to movement of said operating member in one direction whereby said operating member is effective to advance said body member; said last named means decoupling said members upon reverse movement of said operating member; and means restraining reverse movement of said body member.

2,660,894

WINDSHIELD WIPER DRIVE APPARATUS

Clarence P. McClelland, Royal Oak, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application November 17, 1950, Serial No. 196,268
10 Claims. (Cl. 74—95)



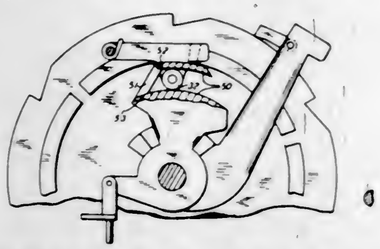
1. In windshield wiper drive apparatus having power means comprising drive means and an output shaft for operating the wiper and a pair of flexible cables extending between said drive means and shaft, means for tensioning said cables, including: a first tensioning member connected to one of said cables at one end thereof; a second tensioning member adjacent said first member and connected to the other of said cables at the adjacent end thereof, said members being rotatable relative to each other; spring means having opposite ends interconnecting said members for rotating at least one of said members relative to the other to tighen said cables; and readily releasable means for locking said members against relative rotation.

2,660,895

INDEXING MECHANISM

Daniel V. Waters, Lebanon, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application September 27, 1951, Serial No. 248,503
1 Claim. (Cl. 74—155)



An indexing mechanism for a unit mounted for rotation about an axis, the mechanism comprising a member mounted concentric with the axis with spaced notches in its peripheries and connected to the unit for rotary movement therewith, a latch, normally actuable to engage the member to secure it against movement, having a projection thereon, an oscillating cam having an outer surface to engage the projection and disengage the latch from the member, a groove having an outlet to serve as a by-pass for the projection during the return movement of the cam and a door for the outlet providing a part of the outer surface for the cam, normally closed and actuable into open position by the projection, and a pawl movable by the cam to enter an adjacent notch in the periphery of the member to move the member subsequent to the releasing of the latch.

2,660,896

SELECTIVE PLURAL SPEED FRICTIONAL DRIVE MECHANISM

Herbert L. Hartman, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio

Application July 23, 1949, Serial No. 106,365
20 Claims. (Cl. 74—199)



1. A plural speed frictional drive mechanism for phonograph turntables of the general type characterized by the provision of a final drive wheel adapted for peripheral frictional driving engagement with an annular element of a phonograph turntable, said mechanism comprising in combination with said wheel having a friction rim, and a journal upon which said wheel is adapted to rotate on an upwardly directed axis, an electric motor, a drive shaft rotatable responsive to energization of said motor, a plurality of pulley elements each disposed laterally of said shaft, said elements and said shaft being rotatable on axes which are parallel to the axis of said wheel, transmission belting to concurrently transmit rotary motion from said shaft to each of said elements, said shaft and said elements each having a wheel rim engageable pulley portion disposed at the common level of the rim of said wheel, said wheel engageable pulley portions being of substantially different diameters, and adjustment means for interchangeably relatively disposing any selected one of said wheel-engageable pulley portions in relative peripheral engagement with said friction rim, and spring means adapted to yieldably resiliently maintain said friction rim in frictional engagement with any said selected pulley portion.

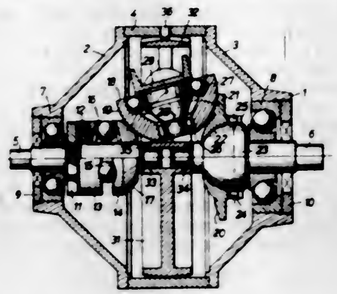
2,660,897

INFINITELY-VARIABLE CHANGE-SPEED GEAR

Martin Neidhart, Zug, and Emil Koller, Winterthur, Switzerland, assignors to Dabo Ltd., Zug, Switzerland

Application May 16, 1951, Serial No. 226,608
Claims priority, application Switzerland September 20, 1950
8 Claims. (Cl. 74—200)

1. A mechanical stepless gear comprising a casing, a driving shaft and a driven shaft mounted in said casing, a plurality of coacting frictional bodies, said bodies including at least one series of three rotary bodies uniformly spaced apart circumferentially of the casing and at least two central opposite bodies of which one coacts with the driving shaft and the other with the driven shaft, each rotary body having a spherical frictional face, each control body having at least one conical frictional face, a common frame supporting the axles of said rotary bodies for automatic centering of said spherical faces on said conical surfaces, means for adjusting the axles of all the said rotary bodies with respect to their points of contact with



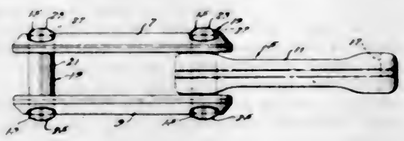
the said faces of the central bodies, in order to vary the gear ratio, bearing means adapted to permit either one of said central bodies or the entire series of said rotary bodies to oscillate, an axially operating self-acting locking mechanism associated with one of said central bodies, said rotary bodies through axle pins being mounted in a common frame which by means of all the rotary bodies is capable of self-alignment on the conical faces of the central bodies, and said frame having means for the common adjustment of all the rotary bodies with respect to the points of contact thereof with the conical frictional faces of the two central bodies.

2,660,898

CONVEYER CHAIN

George R. Kew, Detroit, Mich., assignor to Palmer-Bee Company, Detroit, Mich., a corporation of Michigan

Application May 27, 1950, Serial No. 164,660
3 Claims. (Cl. 74—257)



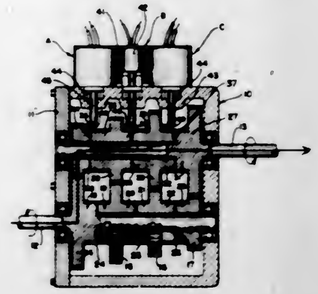
1. A joint pin for pivotally connecting one end of a pair of vertically spaced links with one end of a link disposed therebetween in a conveyor chain, including a shank adapted to extend through openings in said links, an elongated transversely extending head on each end of said shank and adapted to engage the pair of links to retain all of said links in an assembled relationship, at least one of said heads having a notch therein forming a lubricant channel connecting the periphery of the shank with the exterior of the head so that lubricant applied to the exterior of the head will flow through the notch onto the shank.

2,660,899

MULTISPEED TRANSMISSION

Robert F. McCammon, Denver, Colo., assignor to Heiland Research Corporation, Denver, Colo., a corporation of Colorado

Application July 30, 1951, Serial No. 239,273
10 Claims. (Cl. 74—337)



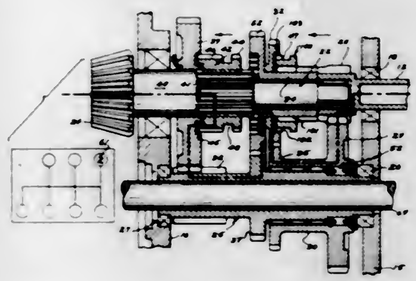
1. In a variable speed gearing arrangement, parallel drive and driven shafts, companion meshing gears on the drive and driven shafts having different ratios, means including overrunning clutches for connecting the gears on the driving shaft thereto, and means including friction clutches for connecting the gears on the driven shaft thereto, said friction clutches each being of the type capable of slipping when a load greater than a predetermined value is to be transmitted and each slipping at a different value.

2,660,900

TRANSMISSION

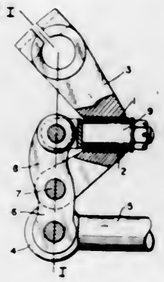
William E. Swenson, St. Paul, Minn., assignor to Minneapolis-Moline Company, Hopkins, Minn., a corporation of Minnesota

Application August 17, 1950, Serial No. 179,999
13 Claims. (Cl. 74—375)



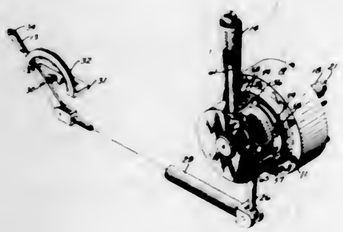
1. In a six forward speed transmission having driving and driven shafts and a countershaft and with change speed gears on the shafts, a first clutch member having means cooperating with clutch means on certain gears and shiftable to positions for selecting any one of three forward speeds, and a second clutch member also having means cooperating with clutch means on certain gears and shiftable from neutral to transmit torque to the driven shaft and select a high or low speed range for any speed selected by the first clutch member.

2,660,901
RESILIENT STEERING LINKAGE CONNECTION
Josef Latzen, Dusseldorf-Oberkassel, Germany, assignor to A. Ehrenreich & Cie., Dusseldorf-Oberkassel, Germany, a firm
Application August 15, 1950, Serial No. 179,539
2 Claims. (Cl. 74—470)



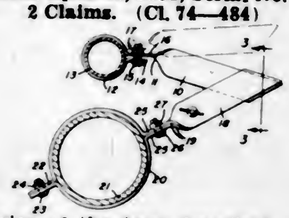
1. A steering mechanism for a motor vehicle which includes a steering lever and a steering rod, and buffer means arranged intermediate said steering lever and said steering rod comprising thrust absorbing telescoping members having a rubber sleeve disposed intermediate the opposing surfaces thereof, wherein the linkage between the steering rod joint and the steering lever is by way of a member in the form of a double armed lever having one arm pivotally connected to said steering rod joint, the other arm in yielding engagement with said steering lever by way of said rubber sleeve member, and wherein a portion intermediate said arms is connected to an end of said steering lever.

2,660,902
DUAL CONTROL MECHANISM
Harold H. Wagner, Peoria, Ill., assignor to Caterpillar Tractor Co., Peoria, Ill., a corporation of Illinois
Application April 14, 1951, Serial No. 221,108
4 Claims. (Cl. 74—480)



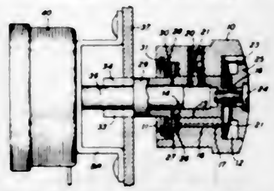
1. A dual control comprising a driven member, a first driving shaft, a second driving shaft extending through and supported for relative rocking movement in the first driving shaft, manually operable control means for each of the driving shafts, releasable locking means associated with the control means for said first driving shaft, latches engageable with the first driving shaft for transmitting torque from said shaft to the driven member, and means on said second driving shaft for disengaging the latches from said first driving shaft and transmitting torque from the second driving shaft to the driven member through said latches.

2,660,903
STAY IN GEAR
Raymond H. Watson, Greenfield, Ohio
Application April 10, 1951, Serial No. 220,308
2 Claims. (Cl. 74—484)



1. A device of the type described comprising in combination with a steering wheel column and a standard gear shift rod, a single elongated flat blade having its one end affixed to said rod and extending horizontally outwardly therefrom, a pair of elongated slightly spaced apart blades in parallel relation with each other, said blades having their one end disposed around and affixed on said column and extending horizontally therefrom, and the outer end of the said first blade adapted to be frictionally received between the outer ends of the said pair of blades when said gear shift lever is in the high gear position.

2,660,904
FRICTION DEVICE FOR OPERATING KNOBS IN ADJUSTABLE APPARATUS
Harry A. Hilsinger, Jr., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 22, 1951, Serial No. 262,986
4 Claims. (Cl. 74—504)



1. A control knob comprising in combination a panel, a body member having a central bore therein, said body member having inner and outer end recesses, a hub member having a central bore therein, said hub member having a flanged end portion journaled in the inner recess of said body member, a shaft rotatably mounted in said hub member extending through said panel and secured to said body member, means on said hub member in engagement with said panel for preventing the rotation of said hub member, brake means in the inner recess of said body member in frictional engagement with the flanged end of said hub member, for braking the rotation of said knob and said shaft, and means in the outer recess of said body member operatively connected to said brake means, for varying the friction thereof.

2,660,905
IDLER ARM
Donald P. Marquis, Ferndale, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 25, 1950, Serial No. 146,191
12 Claims. (Cl. 74—579)

2. In a steering linkage, a piece of metal bar stock formed into the general configuration of

a crank and comprising an idler arm, a resilient elastic bushing surrounding a relatively angularly displaceable portion of the idler arm near one end thereof, a relatively stationary bracket having a pair of ears curled snugly around the bushing to form a tubular retainer substantially



circular in cross-section and locking elements defined by the ears to retain the housing in tubular shape and to insure that the assembled relationship of the elements will produce only torsional movement in the bushing upon angular displacement of the idler arm relative to the bracket.

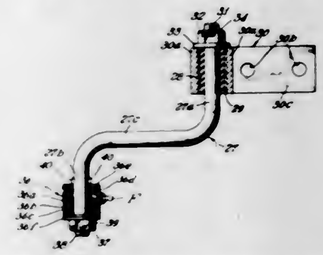
2,660,906
IDLER ARM
Oliver S. French, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 25, 1950, Serial No. 146,192
7 Claims. (Cl. 74—579)



1. An idler arm structure for a vehicular steering assembly comprising an idler arm, a plurality of resilient elastic bearings at spaced intervals along the length of a portion of the idler arm, a bracket plate, a plurality of ears in the bracket plate in spaced apart relationship to one another, the ears being shaped around the spaced bearings to surround the same in snug relationship therewith, whereby rotative displacement of the idler arm relative to the bracket plate will produce only torsional movement in the bearings.

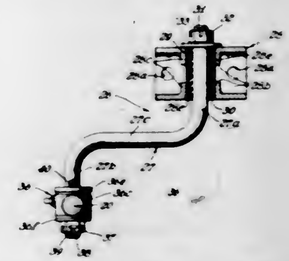
2,660,907
IDLER ARM
Marshall H. Alldredge, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 25, 1950, Serial No. 146,193
5 Claims. (Cl. 74—579)

2. In a vehicular steering linkage, a cross-link, a metal bearing on one end thereof, an idler arm having one end thereof journalled in the metal bearing, a rubber-like material on the other end of the idler arm, a bracket having an apertured flat portion for attachment to a vehicle frame and being bent back upon itself at one end to provide a curled eye portion surrounding the rubber-like material, fastening means con-



necting the bracket to the vehicle frame, and locking means between the bracket and the idler arm to preclude axial displacement therebetween, whereby angular displacement of the idler arm will produce only torsional movement in the rubber-like material.

2,660,908
IDLER ARM
Oliver S. French, Detroit, and Donald P. Marquis, Ferndale, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 25, 1950, Serial No. 146,194
14 Claims. (Cl. 74—579)

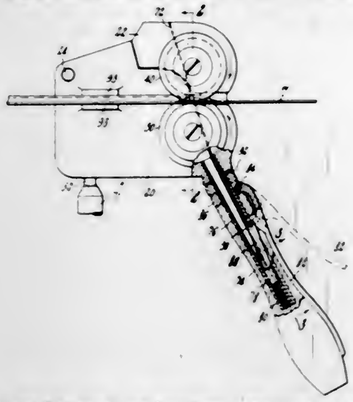


9. In a joint, a generally U-shaped bracket, each of the extending legs of the bracket having an extruding embossment projecting inwardly in coaxial alignment to define a bushing bore, a tubular element received by and bridging the embossments and a resilient elastic bearing liner on the inside bore of the tubular element.

2,660,909
PIVOTED SHEET METAL FLANGING HAND TOOL
Earl P. Morse, Wollaston, and Frank Fornaro, North Quincy, Mass.
Application January 5, 1950, Serial No. 136,876
2 Claims. (Cl. 81—15)

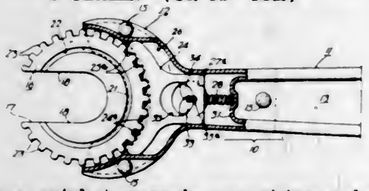
1. A portable tool for offsetting the margin of a sheet metal object, comprising a narrow casing with parallel front and rear walls, said casing having two parts pivotally joined together, a pair of parallel shafts each journalled in a respective part of the front wall and movable toward and from each other, rollers mounted on said shafts to rotate therewith, said rollers having complemental profiles, a supporting handle projecting from one of said frame parts in a direction parallel to said walls, means on said handle connected

to the other said part and manually operable to draw said rollers together, a power input shaft projecting from said frame in a direction parallel



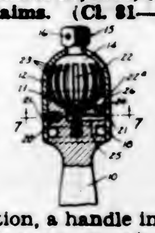
to said walls, and reduction gearing carried in said casing and operatively connecting the power input shaft to said roller shafts to revolve the latter at equal speeds in opposite directions.

2,660,910
RATCHET WRENCH
Albert E. G. Sellers, Radnor, Pa.
Application May 15, 1951, Serial No. 226,400
6 Claims. (Cl. 81—58.2)



1. In a ratchet wrench comprising a handle member including an elongated grip portion and a head portion, a rotatably mounted circular jaw member in said head portion having a radial slot therein and a series of teeth on the periphery of said jaw member extending thereabout from one side of said slot continuously to the opposite side thereof, a pair of toothed actuator members disposed in the head portion in overlapping relation centrally with respect to the longitudinal axis of the wrench and slidable selectively in parallel planes in a direction longitudinally of the wrench toward and away from said jaw member respectively into and out of engagement with the teeth thereof, one of said actuator members having its teeth arranged to rotate the jaw member in one direction and the other actuator member having its teeth arranged to rotate said jaw member in the other direction, said actuator members each having an opening therein with its center located along the longitudinal axis of the wrench and each of said members having an arcuate length greater than the width of said radial slot so that at least some of the teeth on each actuator member are engageable with the teeth of the jaw member in all rotary positions of the latter regardless of the circumferential position of said radial slot, spring means associated with each actuator member acting normally to urge the same into engagement with the teeth of said jaw member, a rotatable control member extending through the openings in said actuator members and actuatable between predetermined limit positions, and cam portions on said control member operable within the openings of said actuator members in one limit position of said control member to effect disengagement of one actuator member only from said jaw member and in the other limit position to effect disengagement of the other actuator member only from said jaw member.

2,660,911
OPERATING HANDLE FOR ROTARY TOOLS
Karl E. Queitzsch, York, Pa.
Application November 29, 1947, Serial No. 788,952
7 Claims. (Cl. 81—61)



5. In combination, a handle including a spherical socket having an arcuate slot therein, a sphere in said socket and including at one pole a tool-engaging tang projecting through said slot, said sphere further having a plurality of longitudinal grooves one of which has a central section traversing the other pole of the sphere and of greater depth than the end portions of said groove and of the remaining grooves, and a pawl element fixed with relation to the handle when engaged in the central portion of said groove and having ratchet engagement with said sphere when engaged with the ends of said groove or with remaining grooves.

2,660,912
MUSICAL INSTRUMENT BODY
Norton U. Prescott, Bath, N. Y.
Application February 1, 1950, Serial No. 141,720
2 Claims. (Cl. 84—291)



1. A device of the character described comprising a body having a top, a bottom and laminated sides interconnecting said top and bottom, said laminated sides including an outer layer of thin wood, an inner layer of thin wood, and an intermediate layer of contiguous blocks, said blocks extending between said top and bottom.

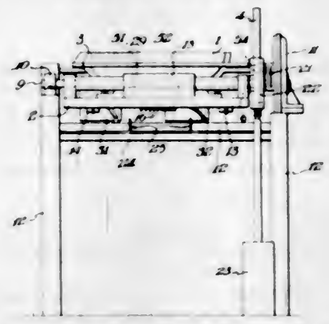
2,660,913
RETAINING RING
Frank D. Frisby, St. Louis, Mo., assignor to Frisby Corporation, St. Louis, Mo., a corporation of Missouri
Application March 17, 1950, Serial No. 150,300
5 Claims. (Cl. 85—8.8)

1. A retaining ring comprising two annular coils lying in adjacent intimate relation and connected by an offset portion, said ring having a heel section with guide means therein, said coils having means near the ends thereof which cooperate with said guide means upon insertion of



pliers tips through both of said means on each side of said offset portion, all of said means being within the inner and outer circumferential edges of said ring.

2,660,914
BLASTING INITIATOR LOADING MACHINE
Charles Russell Johnson, Glenn Mills, Pa., and Edgar H. Schmidt, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 7, 1952, Serial No. 286,532
5 Claims. (Cl. 86—1)



1. In an apparatus for loading explosive charges into initiator shells, the combination comprising a hopper, a flat base plate in the lower portion of said hopper, said base plate containing a plurality of apertures perpendicular to the surface thereof and of equal size, a nozzle-plate beneath said base plate, said nozzle-plate containing downwardly projecting nozzles and upwardly projecting mushroom-shaped sealing elements in axial alignment with said apertures in the base plate, said sealing members having a head of larger diameter than the diameter of said aperture, and openings in the base communicating with said nozzles, means for depositing explosive composition into each of said apertures, and means for vertically reciprocating said nozzle-plate.

2,660,915
INTERFERENCE-SCHLIEREN APPARATUS
Theodor W. Zobel, Braunschweig, Germany
Application July 25, 1950, Serial No. 175,844
3 Claims. (Cl. 88—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In an optical arrangement for the investigation of light density field of a test medium, first and second comparative test means for exploring the density fields, a single light source for both of said test means having a light aperture, means for collimating the light passing through the aperture into an enlarged collimated light beam, said first test means including a 30 per cent silvered flat mirror inclined across the collimated light beam for reflecting approximately 30 per cent of the light beam and passing therethrough about 70 per cent of the light beam, to form two diverging collimated partial light beams, a pair of flat opaque full mirrors, one inclined across each of the partial light beams to reflect the diverging light beams toward each other, to form two spaced rectangular light paths of substantially equal length, said 70 per cent partial light beam adapted to traverse a test medium, a recombining semi-transparent flat mirror inclined across the 30 per cent partial light beam at the intersecting axes of the two partial light beams, said semi-transparent mirror having a semi-transparent reflecting surface for reflecting substantially 50 per cent of the 70 per cent partial light beam passing the test medium and striking the recombining mirror in a coincident direction to 50 per cent of the 30 per cent partial light beam passing through the last mentioned semi-transparent reflecting surface to reunite the last mentioned two partial light beams to form a single light interference beam, a flat opaque mirror inclined across the interference light beam for reflecting the interference light beam laterally in a predetermined direction, said second com-

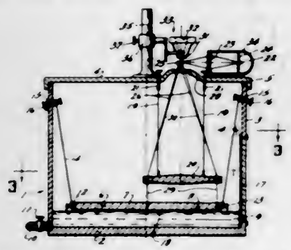


parative test means including a third mirror having a semi-transparent flat reflecting surface inclined across the path of the partial light beam traversing the test medium and located between the test medium and the semi-transparent recombining mirror for reflecting approximately 50 per cent of the partial light beam traversing the test medium in a lateral, almost but not quite, parallel direction diverging relative to the reflected portion of the interference beam to form a Schlieren beam, a flat opaque full mirror inclined across the path of the said laterally reflected Schlieren beam for reflecting the Schlieren light beam in almost but not quite parallel spaced side-by-side relation to the interference beam and in the same direction, single focusing means disposed in the path of both of the last mentioned reflected parallel light beams at equal optical distances from the test medium for converging the beams through two juxtaposed points in the focal plane of the single focusing means to form a pair of side-by-side interference and Schlieren images of identical size on the image plane of the single focusing means, and a Schlieren stop member positioned to engage the Schlieren light beam in said focal plane to form a darkened light field for the Schlieren image in said image plane.

2,660,916
TEST EQUIPMENT FOR MEASURING THE FLATNESS AND PLANE PARALLELISM OF GLASS SURFACES OF ANY DESIRED SIZE AND THICKNESS BY LIGHT WAVE INTERFERENCE
Theodor W. Zobel, Braunschweig, and Ferdinand Mirus, Weiner, Germany
Application July 25, 1950, Serial No. 175,846
3 Claims. (Cl. 88—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In an optical testing apparatus for large size reflecting surfaces of flat plates, a closed

cylindrical container having side walls, bottom and a rotatable cover, and adapted to contain a non-viscous liquid having a light reflecting surface; adjustable supporting means on the side walls for suspending a flat plate with a reflecting surface thereof to be compared, located in juxtaposed horizontal position parallel to and just above, or just below, the light reflecting surface of the non-viscous liquid when introduced into the container, a collimating lens suspended from the cover with its optical axis substantially, but not quite, perpendicular to the light reflecting surface of the liquid and located intermediate the center and periphery of the reflecting surface of the plate, a window in the top of the cover surrounding the axis of the collimating lens means, an inspection window in the side of the container, said collimating lens means being adjustable to dispose its focal point just above the window in the cover, a small reflector carried



by the cover and inclined across the focal point of the collimating lens means at substantially 45 degrees to its axis, having a small reflecting area only just sufficient to encompass the focal point, a monochromatic light source, lens means carried by the cover for projecting a converging monochromatic light beam onto the small reflector through the focal point to illuminate the collimating lens means, a vertical support carried by the cover, an image screen carried by the support above the window in the cover, substantially perpendicular to the axis of the collimating lens means, a lens mounted on the support in the reflected return path of the interference beam, reflected partially by the liquid and plate reflecting surfaces through the collimating lens means and converged through the focal point of the collimating lens means adjacent to the small reflector, said lens means which is carried by the support having an image plane coincident with the image screen.

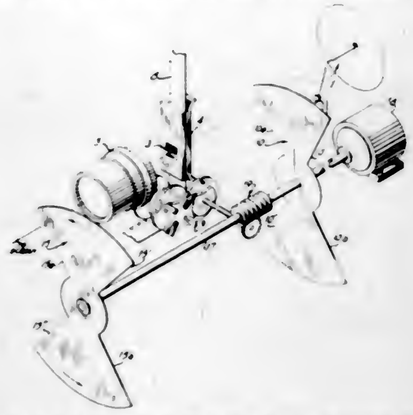
2,660,917

MOTION-PICTURE PROJECTOR, INCLUDING SHUTTER STRUCTURE FOR PREHEATING FILM

Willy Borberg, North White Plains, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York

Application March 2, 1951, Serial No. 213,563
2 Claims. (Cl. 88—18)

1. A motion picture projector comprising a film gate having a projection aperture, means for supporting and intermittently moving a film strip through said film gate for positioning successive film frames over said aperture, a light source, an optical system for projecting images of said film frames, a front shutter having at least two blades positioned between said optical system and the projected images, a rear shutter having the same number of blades as the front shutter positioned between said light source and said projection aperture, said shutters being fixed to a common shaft for simultaneous rotation therewith, the leading edges of the blades of both shutters being positioned in a common radial plane passing through the axis of rotation of said shaft, the blades of said rear shutter being narrower than the blades of the front shutter and



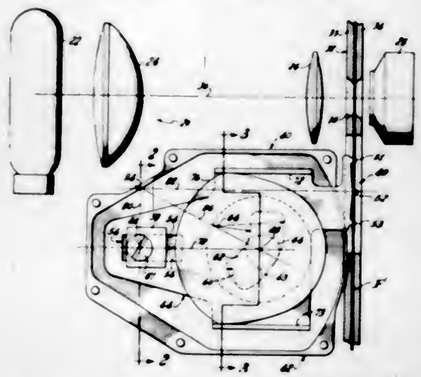
their width being such that said rear shutter substantially completely uncovers said aperture to permit the light from the light source to strike said film before said front shutter initiates projection whereby the whole of the individual film frames are preheated before projection is initiated.

2,660,918

CAM-ACTUATED INTERMITTENT MOVEMENT

George A. Mitchell, Pasadena, Calif., assignor to Mitchell Camera Corporation, Glendale, Calif., a corporation of Delaware

Application March 30, 1951, Serial No. 218,361
12 Claims. (Cl. 88—18.4)



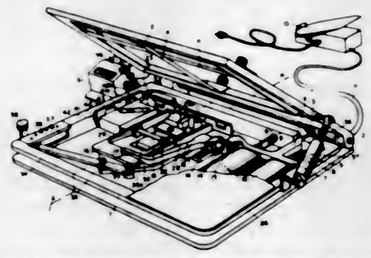
1. A kinetograph intermittent movement of the claw type including structure forming a film guideway, a claw arm slidingly pivoted with the length of the slide transverse of the film guideway, a claw assembly mounted on the claw arm with its axis laterally offset with respect to the length of the pivot slide, meshing means for moving the claw assembly longitudinal of the pivot slide into and out of engagement with a film in the guideway, the said meshing means including a meshing cam revoluble on an axis parallel to the pivot axis and spaced therefrom longitudinally of the pivot slide and a meshing cam follower on the claw arm, and pulldown means for swinging the claw arm about the pivot axis in a film advancing stroke during periods of film engagement, the meshing cam follower on the claw arm being oblique with respect to the pivot slide in such a direction that, at the mid-point of the film advancing stroke, the plane normal to the cam engaging portion of the meshing cam follower and the plane through the pivot axis normal to the length of the pivot slide intersect in a common axis that is spaced laterally with respect to the length of the pivot slide on the same side as the claw assembly, the said common axis lying substantially in the plane through the center of the claw assembly normal to the film guideway.

2,660,919

ENLARGING EASEL

Johannes Keinath, Manfred Kühn, and Friedheim Boss, Onstmettingen, and Ludwig Leitz, Wetzlar (Lahn), Germany, assignors to Ernst Leitz G. m. b. H., Wetzlar, Germany, a corporation of Germany

Application August 10, 1950, Serial No. 178,574
Claims priority, application Germany August 11, 1949
2 Claims. (Cl. 88—24)



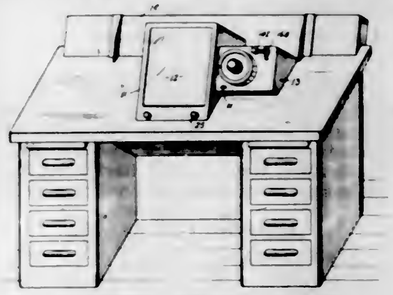
1. A photographic copying apparatus comprising a base, a fixed copy paper receiving platen therein spaced a distance above said base, a masking frame cover swingably pivoted at the rear side of said base to close by gravity upon said platen and paper thereon, an electromagnet including an anchor supported in the base below the platen, gearing means operatively connected to and between said electromagnetic anchor and the said cover to raise the latter into an open position when the electromagnet is energized, a mechanism positioned beneath the platen for clamping copy paper thereto when the cover is closed upon the platen and for ejecting the paper from the platen when the cover is raised comprising a vertically and laterally movable hook adapted to engage the paper, said hook extending from said mechanism beneath the platen through an opening therein to the surface of the platen, a two armed hook-supporting lever pivoted intermediate its ends beneath the platen, one arm of said lever forming a fork for pivotally supporting the said hook therein, the other arm of said two armed lever being free and extending forwardly beneath the platen, a spring acting upon said two armed lever to depress its said forked end and move the said hook vertically downward to clamp the paper to the platen, while said cover is being closed, an abutment supported independent of said forked end within the same in the path of vertical movement of the said hook to tip the latter laterally into a paper ejecting position when said cover is being raised, a right angled lever member pivoted to the said apparatus base, one arm of said member being adapted to contact and depress the said free end of the said two armed lever to move the latter upwardly against the said spring pressure to elevate the forked end thereof and the said hook into paper ejecting position, when said masking frame cover is being raised, said hook being tipped forwardly to eject the paper by hitting the said abutment as said hook is being elevated, the other arm of said right angled lever member being engaged by said electromagnet anchor to actuate said member as aforesaid, means for retarding the downward closing movement of said cover, a manually operated key to release said retarding means for quick closing of said cover and manually operated switch means to energize said electromagnet to attract the anchor to raise the said cover and simultaneously therewith actuate said right angled lever member to cause ejectment of the paper from the platen as aforsaid and to deenergize said electromagnet when said cover has reached its full open raised position.

2,660,920

FLAT FILM VIEWER

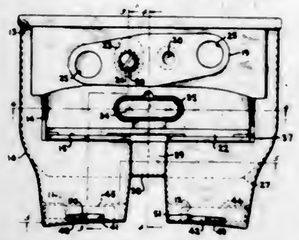
Donald S. McChesney, Solvay, N. Y., assignor to Hall & McChesney, Inc., Syracuse, N. Y., a corporation of New York

Application October 25, 1950, Serial No. 192,007
5 Claims. (Cl. 88—24)



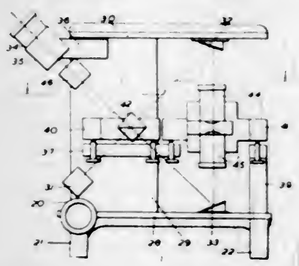
1. Apparatus for viewing an image on a flat film having a multiplicity of images thereon, comprising a viewing screen, a light source, an optical system, a frame for supporting a film in said optical system intermediate said screen and light source, said frame being mounted for movement in directions lengthwise and transversely of said film to position various ones of said images in registration with said optical system, a flexible band attached at its ends to opposite sides of said frame and having an intermediate portion engaging the periphery of a drum journalled for rotation, said flexible member and drum being cooperable upon rotation of the drum to move the film frame in a direction lengthwise of the film, a second flexible member attached at its ends to the opposing opposite sides of the frame and having an intermediate portion engaging the periphery of a second drum journalled coaxially with said first drum, said second drum and flexible member being cooperable to move the film frame in a direction transversely of the film, a pair of manually operable controls connected to said drums individually, a dial carried by one control, a transparent dial carried by the other control and overlying said first dial, and indicia carried by said dials and cooperable to indicate the selected image positioned in said optical system.

2,660,921
ILLUMINATED STEREOSCOPE
John E. Gaulke, Milwaukee, Wis.
Application July 21, 1951, Serial No. 237,949
5 Claims. (Cl. 88—29)



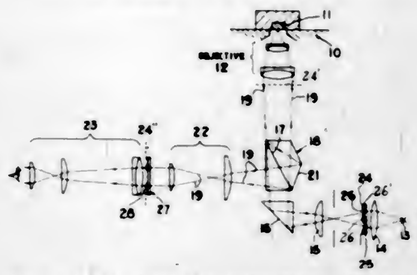
1. An illuminated portable picture display device comprising, a unitary main casing provided with spaced sight openings in one end thereof, an auxiliary casing slidably confined entirely within said main casing and having a picture receiving opening in the end adjacent to said sight openings, illuminating means housed entirely within said auxiliary casing remote from said sight openings, and means journalled on said auxiliary casing and pivotally coacting laterally of its journal axis with said main casing for moving said auxiliary casing toward and away from said sight openings entirely within the confines of said main casing.

2,660,922
INTERFERENCE MICROSCOPE
John St. Leger Philpot, Didcot, England, assignor, by mesne assignments, to National Research Development Corporation, London, England
Application May 31, 1949, Serial No. 96,192
Claims priority, application Great Britain June 7, 1948
5 Claims. (Cl. 88—39)



1. An interference microscope for the examination of objects through which light can pass, comprising, in combination, a collimator, a partially reflecting, partially transmitting reflector disposed in the path of a light beam from the collimator with its partially reflecting, partially transmitting surface set obliquely to this path, two reflecting devices disposed one in the path of each of the reflected and the transmitted part beams from the reflector at angles such that the part beams are redirected to travel in opposite directions along one and the same path between the reflecting devices, means for supporting an object in, and in a plane transverse to, the common path of the two part beams, two objective lenses disposed one on each side of the object plane and acting each as a condenser for light traveling in one direction and as an objective for light traveling in the other direction, and an eyepiece disposed in the path of a composite image-forming beam derived from the two beams passing away from the object plane along the common path of the two original part beams toward the reflector, the power and positioning of each of the objective lenses being such that the two images which are to interfere are formed as images of equal size lying in at least substantially the same plane at an appropriate distance along the light path to the eyepiece.

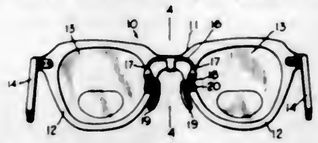
2,660,923
PHASE CONTRAST APPARATUS FOR METALLOGRAPHIC MICROSCOPES
James R. Benford, Irondequoit Township, Monroe County, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application October 6, 1949, Serial No. 119,973
2 Claims. (Cl. 88—39)



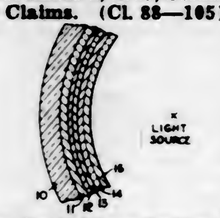
1. An optical system for microscopically examining a substantially specularly reflecting surface of an opaque specimen comprising an objective in optical alignment with the surface, a light source, a light transmitting reflector optically aligned with the light source and objective for directing light rays through the objective and onto the surface, a diaphragm disc between the light source and said reflector, said disc having a patterned light transmitting area which is illuminated by the source, lens means between the diaphragm disc and reflector, said lens means having its conjugate foci at the disc area and rear focal plane of the objective and imaging said area in said rear focal plane whereby the objective projects the image onto said surface which reflects it back through the objective to said focal plane, additional lens means optically aligned with said reflector and objective, said additional lens means constructed and arranged to project said image of the disc area to a plane in space, and a light phase altering plate positioned substantially in said last-named plane, said plate having a light phase altering portion which has substantially the same size and shape as and is coincident with the image of said area whereby objectives of different powers may be used selectively with the same phase altering plate.

2,660,924
SPECTACLE WITH VERTICALLY ADJUSTABLE LENSES
Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application February 17, 1950, Serial No. 144,819
6 Claims. (Cl. 88—49)

1. In a spectacle having a bridge connecting a pair of multifocal lenses and a vertically adjustable auxiliary bridge carrying nose pads, the combination of a pair of members on the respective sides of the auxiliary bridge and a pair of coacting members fixedly mounted at the respective nasal edges of the lenses, one of said pairs of members having vertically positioned arcuate tracks which are curved in a vertical direction, the other pair of members comprising a pair of pins which slidably engage the respective tracks, the sides of said auxiliary bridge being resilient whereby the pins are releasably held at the upper or lower ends of the tracks when the lenses are raised or lowered relative to the auxiliary bridge to selectively position reading portions of the lenses before the eyes.



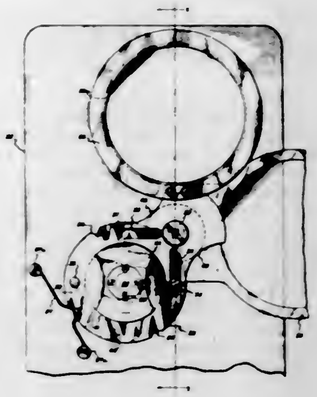
2,660,925
LIGHT REFLECTOR WHICH TRANSMITS INFRARED RAYS
Arthur F. Turner, Brighton, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application December 1, 1949, Serial No. 130,519
10 Claims. (Cl. 88—105)



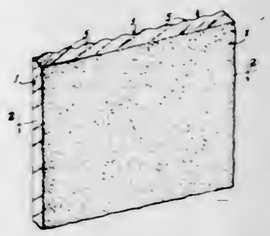
2. A reflector for light projectors comprising a semi-transparent reflecting layer of a material which transmits a substantial amount of infrared rays and reflects a substantial amount of white light so that visible rays from a light source may be reflected onto a film gate and the infrared rays from the source will be transmitted through the reflecting layer and thereby reduce the amount of heat at the film gate, said layer being characterized by a metallic reflection in the visible range of the spectrum, said layer being formed of a material selected from the group consisting of germanium, silicon, selenium and stibnite, and means on the layer for increasing the reflectivity of the layer for visible rays, said means comprising at least one pair of superposed films of material deposited on the surface of the layer which faces the light source, each of said films being formed of a different material having respectively different refractive indices, the lower index film of each pair having a refractive index lower than that of all films adjacent to it, the film in contact with the layer having a lower index than its adjacent film, each of said films having an optical thickness which is substantially of the order of ¼ wave length of light rays in the spectral region of about 500–600 millimicrons.

2,660,926
PLURAL FILTER SUPPORT AND ACTUATING MECHANISM
Maurice I. Talley, Arlington, Va.
Application April 13, 1950, Serial No. 155,771
10 Claims. (Cl. 88—113)
(Granted under Title 35, U. S. Code (1952), sec. 266)

7. In an optical element shifting mechanism, a base, a pair of optical elements mounted on said base for pivotal movement about a common axis into and out of an operative position, a Geneva star wheel driven member mounted on each of said elements, a Geneva drive member mounted for rotation on said base and including a plurality of pins secured on opposite sides thereof, said pins being angularly displaced from each other, said drive member being positioned to rotate in a plane passing between said driven members, said pins being angularly displaced from each other for sequentially and alternately engaging their respective driven members to individually pivot the optical elements into and out of the operative position, and means for rotating said Geneva drive member.



2,660,927
PROJECTION SCREEN
Charles G. Burton, San Diego, Calif.
Application December 12, 1949, Serial No. 132,515
2 Claims. (Cl. 88—28.9)



1. In a viewing screen, a sheet of transparent material having a front surface and a rear surface, said front surface being substantially flat, said front surface being slightly and uniformly roughened and having a thin coat of transparent material thereon to render the front surface transluscent said rear surface having parallel regularly spaced vertical ribs, each rib being continuous and of uniform cross-sectional shape from top to bottom of the screen, said ribs being shaped to form sinusoidal curves, said rear surface having a reflective coating, whereby substantially all light entering said screen is reflected forwardly and horizontally laterally of the screen and loss by reflection upwardly and downwardly is minimized.

2,660,928
RAMMER
Owen W. Marlow, Rock Island, Ill.
Application April 15, 1946, Serial No. 662,158
31 Claims. (Cl. 89—47)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A rammer for a gun having a tube-and-breech assembly arranged for recoil and counterrecoil, comprising a support fixed against recoil and counterrecoil, a rammer member carried by said support for reciprocation in the directions of recoil and counterrecoil, means including a release element mounted for angular movement about an axis lying along the path of reciprocation of said rammer member and forming a releasable connection between the tube-and-breech assembly and said rammer member by means of which the tube-and-breech assembly in recoil may drive said rammer member breechwardly, means for moving said release element angularly for releasing said connection to free the tube-and-breech assembly from said rammer member so that the former may return in counterrecoil without the latter, and means for subsequently moving said rammer member in the direction of counterrecoil.

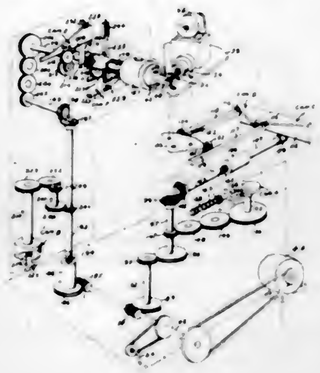
2,660,929
METHOD OF SHAVING GEARS
Walter S. Praeg, Detroit, Mich., assignor to National Broach and Machine Company, Detroit, Mich., a corporation of Michigan
Application January 13, 1949, Serial No. 70,678
4 Claims. (Cl. 90—1.6)



1. The method of finishing a gear of cylindrical form which comprises meshing it in tight mesh with a gear-like cutter of cylindrical form having teeth provided with cutting edges at the ends thereof, with the axes of said gear and cutter crossed to produce a substantial relative motion between the gear and cutter endwise of the teeth thereof, said cutter teeth being uniform from end to end, said cutter being additionally inclined with respect to said gear so as to introduce cutting clearance in back of the cutting edges, rotating said gear and cutter independently in accurately timed relation at cutting speeds, and effecting a slow relative traverse between the gear and cutter in a direction parallel to the axis of the gear to distribute the finishing cut of the cutter from end to end of the gear teeth.

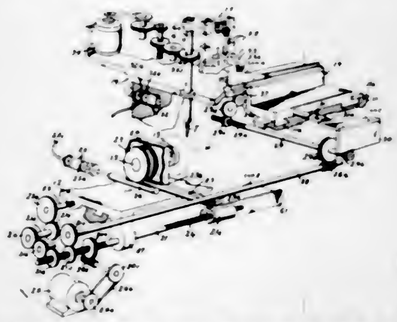
2,660,930
MACHINE FOR FORMING PREDETERMINED IRREGULAR SURFACES
Charles B. De Vlieg, Farmington, Howard R. De Vlieg, Grosse Pointe Woods, and Charles R. De Vlieg, Birmingham, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 15, 1947, Serial No. 748,282
13 Claims. (Cl. 90—13)

7. In a metal working machine, a cutter head, a cutter-carrying spindle rotatably carried by said head, a work fixture, and means connecting said cutter head and said work fixture including means for simultaneously effecting relative rectilinear movement in three transversely



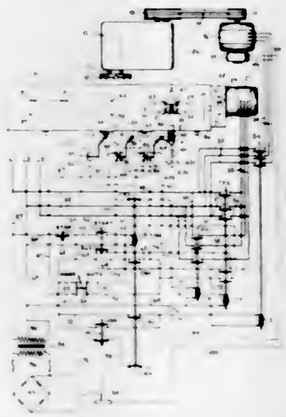
related directions and relative rotative movement about axes parallel to two of said directions with each of said movements being according to a predetermined function of every other movement.

2,660,931
APPARATUS FOR MILLING COMPLEX SURFACES
Charles B. De Vlieg, Farmington, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application September 19, 1947, Serial No. 775,109
5 Claims. (Cl. 90—13.9)



1. In a metal working machine, a base, a first carriage supported on said base for horizontal movement relative thereto, a work-supporting spindle rotatably carried by said carriage for movement about an axis parallel to the direction of movement thereof, a second carriage supported by said base for horizontal movement transverse to said horizontal movement of said first carriage, a third carriage supported by said second carriage for vertical movement relative thereto, a cutter-carrying spindle carried by said third carriage for rotation about a vertical axis, drive means on said base, a lead screw connected to said drive means for effecting said horizontal movement of said first carriage, cam means for effecting said rotative movement of said work spindle according to a predetermined function of said horizontal movement of said first carriage, second cam means actuated by said drive means for effecting said horizontal movement of said second carriage as a predetermined function of said movement of said first carriage, and third cam means actuated by said drive means for effecting said vertical movement of said third carriage as a predetermined function of said movement of said first carriage.

2,660,932
AUTOMATIC CYCLE MACHINE TOOL
Harry C. Kemper, Goshen Township, Clermont County, and Nelson D. Cooper, Mariemont, Ohio, assignors to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio, a corporation of Delaware
Application October 15, 1951, Serial No. 251,402
7 Claims. (Cl. 90—21)



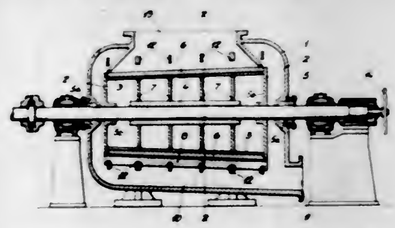
1. An automatic cycle control mechanism for a machine tool having, a main drive motor, a movable element, a mechanical feed drive for said movable element, means for driving said mechanical feed drive from said main drive motor, a clutch for connecting or disconnecting said main drive motor relative to said mechanical feed drive, a rapid traverse drive motor directly connected to said mechanical feed drive, a feed control lever manually operable to engage or disengage said clutch, means on said movable element for moving said feed control lever from an engaged position to disengaged position of said clutch, a source of power for operating both of said motors, a start push button, a first limit switch actuated by the movement of said feed control lever when in disengaged position of said clutch to cause said start push button to energize both said motors when pressed, a second limit switch actuated by the movement of said movable element to a predetermined forward position to cause said source of power to be disconnected from said rapid traverse drive motor, means in said first and second limit switches to maintain connection of said source of power to said main drive motor after said second limit switch has been operated to disconnect power from said rapid traverse drive motor, and means in said first limit switch operable by movement of said feed control lever to disconnected position of said mechanical clutch, after said second limit switch has been actuated to de-energize said rapid traverse drive motor, to de-energize said main drive motor and energize said rapid traverse drive motor in reverse movement to retract said movable element.

2,660,933
INSIDE RING ENGRAVING ATTACHMENT
Wilbur M. Garing, Torrington, Wyo.
Application November 1, 1950, Serial No. 193,497
4 Claims. (Cl. 90—61)



1. A ring engaging clamp, for use with the travelling blocks of a work holder of an engraving machine, comprising a pair of substantially L-shaped jaws that are mounted on the travelling blocks, V-shaped surfaces mounted on said jaws in vertical relation thereto, and V-shaped recesses formed in the inner faces of said V-shaped surfaces whereby a ring may be gripped by said jaws when positioned in said V-shaped recesses.

2,660,934
MEANS FOR DEFIBRATING AND GRINDING PAPER PULP OR OTHER FIBROUS MATERIAL
Cornelius Laviste, Skonsberg, Sweden
Application July 16, 1948, Serial No. 39,133
Claims priority, application Sweden July 18, 1947
3 Claims. (Cl. 92—26)



1. Apparatus for defibrating and grinding paper pulp or other fibrous material, comprising a container, an open-ended rotatable roller disposed within the container, said roller having a peripheral working face comprised of a plurality of longitudinally extending, spaced, defibrating and grinding knives arranged close to each other and having end and intermediate connecting members between the knives making the working face of the roller into a rigid slotted unit, said knives defining radial through-passages, interrupted by said connecting members between the knives, for the radially outward flow of pulp from the interior of the roller, means for rotating the roller, a plurality of longitudinally extending, spaced, stationary defibrating and grinding knives mounted within the container and spaced from the walls thereof, said stationary knives being arranged close to each other and having end and intermediate connecting members between the knives to form a stationary, rigid, hollow slotted body said slotted body defining with said container wall an annular outlet space about said hollow slotted body, said roller being arranged within the slotted body thus provided, the edges of the stationary knives facing the roller and being in cooperative relation with the knives forming the working face of the roller, said stationary knives defining radial through-passages, interrupted by said connecting members between the stationary knives, for the flow of pulp into said annular outlet space, a stationary

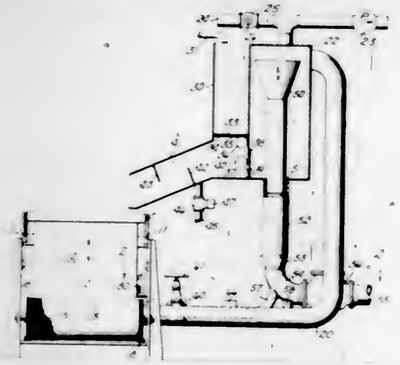
inlet conduit passing through an end wall of said container and terminating within the open-ended roller and positioned for gravity feed of pulp to the interior of the roller whereby, upon rotation of the roller, pulp supplied to the interior of the roller is moved by centrifugal force through said through-passages between the knives of the roller to the working face where it is treated and radially outwardly through the through-passages between the stationary knives into said annular outlet space, and an outlet opening in said container in communication with said annular space for discharge of treated pulp from said annular space.

2,660,935

APPARATUS FOR FORMING FIBER MATS, INCLUDING DECKLE BOXES WITH WHITE WATER RETURN

Ralph Chapman, Corvallis, Oreg., assignor to Chapman Forest Utilization, Inc., Corvallis, Oreg., a corporation of Oregon

Application December 20, 1948, Serial No. 66,176
4 Claims. (Cl. 92—54)



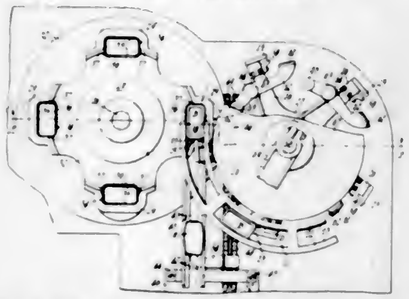
1. Apparatus for forming a fibre mat by withdrawing white water from a slurry of fibres, comprising a forming vat including an upwardly open, upper part into which a charge of slurry may be directed and a lower part through which white water may be drawn, a screen separating said upper and lower parts, an elevated, sealed, white water storage tank, first conduit means connecting the top of said tank to the lower part of said vat, said first conduit means extending horizontally from the lower part of said vat and then upwardly to said tank, means for creating a vacuum in said tank to withdraw white water from slurry deposited in the upper part of said vat through said screen, the lower part of said vat, and said first conduit means into said tank whereby to form a mat of fibres on said screen, overflow means including an overflow funnel in said tank, an outlet from said funnel, and an outwardly opening check valve in said outlet for sealing said overflow means when a vacuum is drawn in said tank, operable to divert a portion of the elevated white water from said tank, second conduit means leading from the bottom of said tank to the lower part of the vat whereby the remainder of the elevated white water may return to said lower part when the vacuum in said tank is broken, a vent valve communicating with said tank above said overflow funnel, and means responsive to the lowering of the liquid level in said vat to a point beneath said screen for opening said vent valve.

2,660,936

CLOSING MACHINE WITH RECTANGULAR CONTAINER SQUARING AND DEBULGING DEVICES

John T. Livacich and Edward W. De Gear, San Francisco, Calif., assignors to American Can Company, New York, N. Y., a corporation of New Jersey

Application July 20, 1949, Serial No. 105,756
5 Claims. (Cl. 93—55.1)



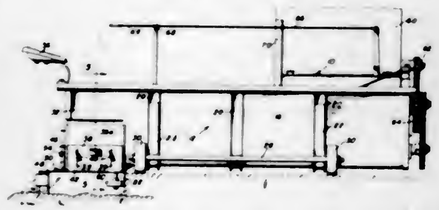
1. In a machine for attaching covers to rectangular can bodies, the combination of feeding devices for advancing a can body along a predetermined substantially straight path of travel, a movable centering ring disposed adjacent one side of said path of travel for holding a cover in spaced relation to an advanced can body for application thereto, a movable mold disposed between said centering ring and said feeding devices and located in axial alignment with said centering ring, actuating means for continuously moving said ring and said mold in unison along said path of travel for receiving said advanced can body in said mold, squaring means disposed on the opposite side of said path of travel and movable toward said mold, means operating in time with said actuating means for moving said squaring means into engagement with said body for shifting its sides relative to each other in said mold for squaring-up said body relative to said centering ring, and pusher means movable toward said mold for pushing said squared-up body through said centering ring for receiving the cover held in said ring.

2,660,937

APPARATUS FOR WIDENING ROADWAYS

James R. Breeden, Madisonville, Ky.

Application July 10, 1950, Serial No. 172,835
3 Claims. (Cl. 94—46)



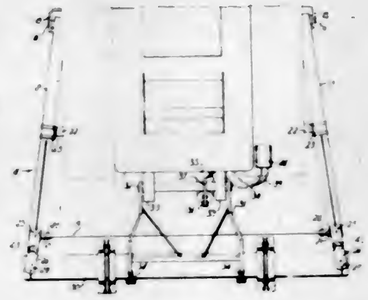
1. A concrete hauling and dispensing machine comprising an elongated horizontally disposed remixing trough, wheels supporting said trough and adapted to permit lateral movement of the trough over a paved roadway, said trough including an end portion adapted to overhang one side edge of a roadway, the said end portion of said trough having a dispensing opening therein, a pliable smoothing member adjustably secured to the said end portion of said trough and including a horizontal portion adapted to overlie a form paralleling the side edge of a roadway overhung by the said end portion, and means carried by said trough for engaging the side edge of a roadway to align the trough as the latter is moved over the roadway.

2,660,938

TOOL-BAR FOR CRAWLER TRACTORS

Lee H. Kaupke, Stockton, Calif., assignor to International Harvester Company, a corporation of New Jersey

Application June 23, 1949, Serial No. 100,777
6 Claims. (Cl. 97—47.16)



3. In an attaching structure for use in mounting earth-working tools upon a crawler type tractor, a pair of longitudinally extending draft arms on opposite sides of the tractor, the forward end of each said arm being pivotally connected to the side of the tractor between the front and rear thereof for vertical swinging movement about a transverse axis, a pair of vertically spaced parallel links pivotally connected to the rear end of each said arm and extending rearwardly therefrom, a transverse tool-carrying bar pivoted to the rear ends of said links for lateral swinging movement therewith relative to the draft arms, means accommodating vertical movement of said draft arms for confining the latter against lateral movement relative to the tractor, and optionally operable means for rendering the parallel links rigid with the draft arms comprising laterally spaced locking members adjacent the pivotal connections between said links and the tool bar, said locking members being adjustable to a locking position between the links and the tool bar to prevent relative pivoting therebetween.

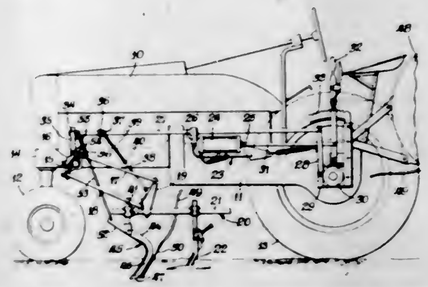
2,660,939

RETRACTABLE FURROW OPENER

Stuart D. Pool, Moline, and Ernest M. Van Buskirk, East Moline, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application October 15, 1951, Serial No. 251,362
6 Claims. (Cl. 97—47.42)

1. In a cultivator adapted to be mounted upon a traveling support, a tool carrier, lifting mechanism on the support connected to the tool carrier for vertically moving the latter between operating and transport positions relative to the support, an earth-penetrating tool mounted on the carrier for movement therewith comprising a longitudinally extending shank portion and a downwardly extending earth-engaging portion, means for mounting the tool on the carrier for rocking movement in a vertical plane relative to the carrier and the support, comprising a transverse pivot connected to said shank portion medially of its ends to provide a forwardly projecting lever portion, and a link connected at



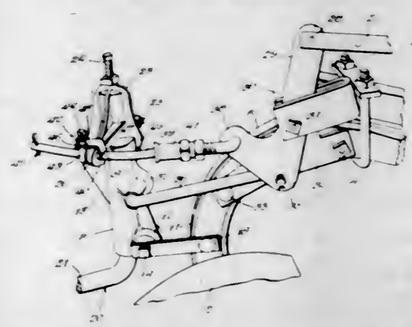
one end to the support and at the other end to said lever portion to cause rocking of the tool about said pivot upon lifting the carrier to transport position.

2,660,940

CASTER WHEEL LOCK

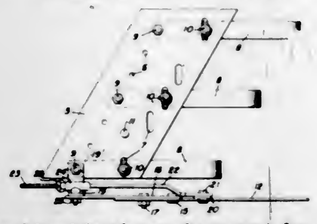
Charles R. Baughman, Piatt, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application December 6, 1949, Serial No. 131,420
2 Claims. (Cl. 97—127)



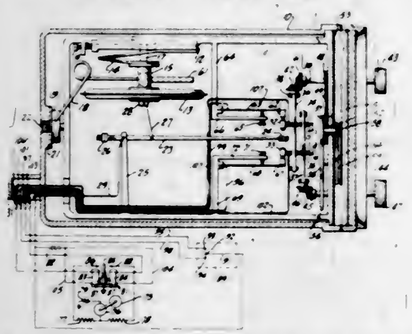
2. The combination with a rear furrow wheel for a plow or the like including a wheel-carrying axle mounted on the plow frame on a transverse axis for swinging movement relative to the plow frame and having a generally vertically extending spindle portion rotatable to permit castering of the wheel, of a connection between the plow frame and the axle for swinging the wheel in a generally vertical longitudinal plane to raise and lower the plow, and means optionally operable to accommodate rotation of the spindle portion and castering of the furrow wheel comprising a radially extending arm on the spindle portion of the axle having an aperture therein, a guide rod slidably receivable in said aperture and having one end pivotally connected to the plow frame, said rod being bent to accommodate movement of the arm in both directions during castering of the wheel, a collar adjustable to selected positions on the rod, an angled member carried by the collar having a bent portion engageable with said arm opposite the collar, means for securing the collar to the rod, and independently operable means for securing the angled member to the collar.

2,660,941
FENDER ATTACHMENT FOR TRACTOR MOUNTED CULTIVATING UNITS
Claude L. Carelock, Douglas, Ga., assignor of one-half to Claude L. Carelock, Jr., Douglas, Ga.
Application June 12, 1950, Serial No. 167,582
3 Claims. (Cl. 97—188)



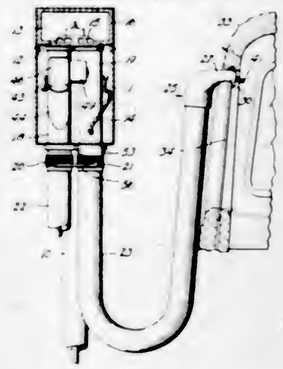
1. A combined fender and support for use with a cultivating unit including a horizontal supporting plate having spring cultivator teeth attached to the under side thereof, comprising an angle bracket having a horizontal arm adapted to be bolted to an end of the supporting plate and a vertical arm extending upwardly from said horizontal arm, a flat horizontally elongated and vertically disposed fender plate, a rearwardly and downwardly inclined drawbar pivoted at its forward end to the lower portion of said vertical arm and attached at its rear end to the forward portion of said fender plate, an arm fixed to and projecting upwardly from the intermediate portion of said fender plate, a rod pivoted at its rear end to the upper end of the last-named arm and having a threaded forward end portion, a sleeve swivelled to the upper end of the vertical arm of said bracket to turn about a transverse horizontal axis, the forward end portion of said rod freely extending forwardly through said sleeve, and a nut adjustably threaded on the forward end portion of said rod in front of said sleeve to adjustably limit lowering of the fender plate.

2,660,942
RATE OF PRESSURE CHANGE REGULATING INSTRUMENT
Bruce E. Del Mar, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Original application May 13, 1946, Serial No. 669,366. Divided and this application March 26, 1951, Serial No. 217,534
14 Claims. (Cl. 98—1.5)



1. A pressure regulating device for use in a system for regulating pressure within an aircraft cabin, comprising: a sealed housing; a pressure sensitive capsule mounted within said housing; conduit means leading from said cabin to the interior of said capsule whereby the capsule is subject internally to changes in cabin pressure; restricted communication means between said conduit means and the interior of said housing whereby said capsule is subject externally to housing pressure; a pair of spaced contacts; means for mounting said contacts for independent movement toward and away from each other; a contact engaging member; means movably mounting said last named member between said contacts for movement from positions intermediate said spaced contacts into engagement with one or the other of said contacts; means interconnecting said contact engaging member and said capsule whereby the former is moved as said capsule expands and contracts in response to changes in the pressures to which it is subjected; a second pair of contacts; and resilient means for mounting a contact of said second pair of contacts adjacent a contact of said first pair of contacts whereby each of said first pair of contacts can be independently moved into engagement with the adjacent contact of said second pair of contacts.

2,660,943
SOUND AND HEATING APPARATUS FOR DRIVE-IN THEATERS
Walter G. Dion and Gerald J. Dion, Buffalo, N. Y.
Application September 22, 1948, Serial No. 50,626
1 Claim. (Cl. 98—2)



Combined sound and heat transmitting apparatus for use in drive-in theaters and the like comprising a relatively fixed support, a flexible conduit extending from said support and having an inlet end at said support and an outlet portion for positioning adjacent to a vehicle, a speaker element at said inlet end for directing audible vibrations into said conduit whereby they emanate from said outlet portion, means at said support for moving heated air into said conduit beyond said inlet end and for circulating the same to said outlet portion, valve means disposed between the inlet end and the point where the heated air is introduced to the conduit for adjustably controlling the volume of sound delivered by said conduit, and manual means adjacent the outlet portion of said conduit for adjusting said valve means.

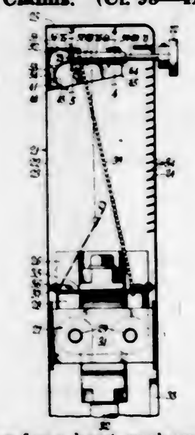
2,660,944
VENT DOOR CONTROL MECHANISM
Charles W. French, Alhambra, Calif., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application February 6, 1952, Serial No. 270,230
3 Claims. (Cl. 98—2)

1. A mechanism of the class described, comprising in combination, a support bracket, a cam

member carried by said bracket for rotational and rectilinear movement and having three triangular shaped lobes arranged with their apexual ends adjacent, two of such lobes being arranged in coplanar relation and the third lobe being disposed transversely intermediate the said two lobes, rod means connected axially with said cam selectively for actuating the same rectilinearly and rotatably, a pair of actuating arms pivotally mounted on said bracket and positioned in coplanar relation adjacent opposite sides of said cam, a contact roller rotatably mounted on each of said arms for engagement with the lobes of said cam, a pair of actuating linkages, one pivotally connected to the outer end of each of said arms and rectilinearly movable in response to the pivotal movement of said arms, and spring means biasing said arms toward one another and said cam, whereby operation of said rod means to position said two lobes in coplanar relation with said contact rollers followed by rectilinear movement of said cam in a selected direction serves simultaneously to actuate both of said linkages against the bias of said spring means and whereby alternate operation of said rod means to position said third lobe in engagement with one of said rollers followed by rectilinear movement of said rod in a selected direction, serves to actuate one of said linkages independently of the other.

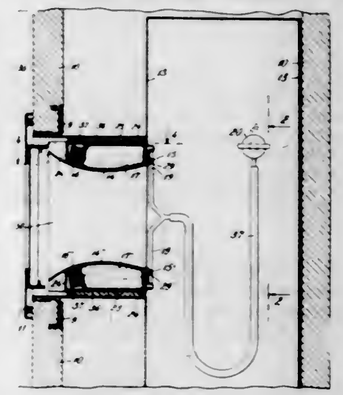


2,660,945
DAMPER CONTROL MEANS FOR AIR CONDITIONING UNITS
Charles L. Osterkorn, Flushing Heights, N. Y., assignor to Fedders-Quigan Corporation, Buffalo, N. Y.
Application March 2, 1950, Serial No. 147,213
6 Claims. (Cl. 98—41)



1. In a casing for a heat exchange apparatus, a pair of spaced walls, a supporting bracket secured to one of said walls and within the casing, said supporting bracket having lateral flanges adapted to abut said wall and a central forwardly offset portion between the flanges, a bearing bracket mounted on said supporting bracket, said bearing bracket having spaced interconnected side rails formed with shallow notches on the rear ends thereof, said notches being of such size as to fit snugly over the flanges of the supporting bracket, a centrally disposed depending tab piece connected to and between said side rails and adapted to enter between said one wall and said offset portion of the supporting bracket in bearing engagement therewith, whereby the bearing bracket may be tightly connected to the supporting bracket within said casing, bearing means formed on the bearing bracket, a shaft mounted in said bearing means, means engaging the shaft to restrain it from axial displacement, said shaft extending through the other of said walls for manual accessibility and operation, means on the bearing bracket engaging said shaft to resist free rotation thereof, and movable means within the casing and connected to the shaft for operation thereby.

2,660,946
DAMPER
Gustave A. Peple, Jr., deceased, late of Richmond, Va., by Bank of Commerce and Trusts, executor, Richmond, Va.
Continuation of application Serial No. 500,902, September 2, 1943. This application January 30, 1951, Serial No. 208,514
7 Claims. (Cl. 98—41)

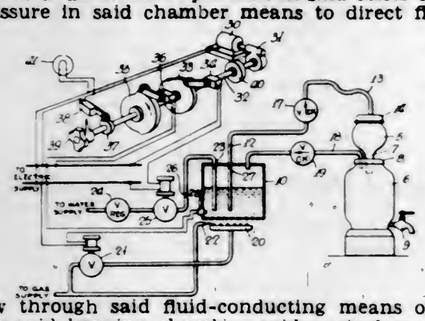


1. A damper comprising a duct, two damper blades mounted in said duct for rotation, respectively, about axes adjacent opposite walls of said duct from fully opened positions in which the blades lie along the duct walls to positions in which the blades converge angularly at least partially across the duct, a flexible fluid tight bag disposed between at least one of said blades and the adjacent duct wall, a frame of telescoping members disposed around said bag between said blade and said wall, means interconnecting the blades to move in unison and means for supplying fluid under pressure to said bag to move said blades to convergent positions.

2,660,947
BEVERAGE BREWING MACHINE
Conrad John Forschner, New York, N. Y.
Application May 27, 1948, Serial No. 29,555
5 Claims. (Cl. 99—282)

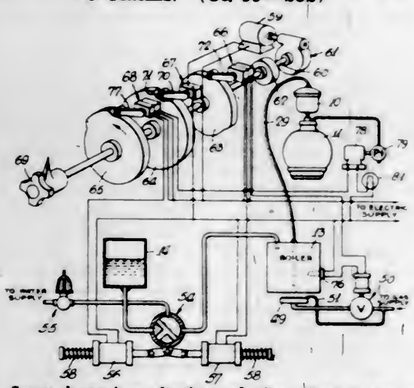
1. In a beverage-making device of the character indicated, chamber means including means generally internally vertically dividing said chamber means into an upper brewing chamber and into a lower brewed beverage chamber, said dividing means including means for supporting grounds or the like from which a beverage is to be brewed, a boiler spaced from said chamber means and having a hot-water delivery capacity

no greater than the capacity of said brewing chamber, heating means for said boiler and including a control element for said heating means, replacement-water supply means including a control valve connected to said vessel, and fluid-conducting means connecting said boiler to the upper part of said brewed-beverage chamber and to said brewing chamber, said fluid-conducting means including pressure-responsive fluid-flow control means having a first unidirectional response to an excess of pressure in said boiler over pressure in said chamber means to direct fluid



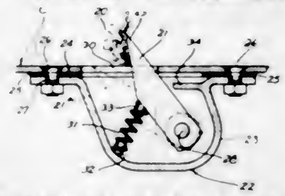
flow through said fluid-conducting means only into said brewing chamber, said control means having a second unidirectional response to an excess of pressure in said chamber means over pressure in said boiler to make possible flow through said fluid-conducting means only from said brewed-beverage chamber to said boiler, and automatic interlocking means interconnecting said control element and said control valve to assure substantially no supply of heat to said boiler as long as said control valve is in the position for admitting replacement water to said boiler.

2,660,948
COFFEE MAKER
Conrad J. Forschner, New York, N. Y.
Application October 16, 1947, Serial No. 780,187
5 Claims. (Cl. 99—282)



1. In a brewing device of the character indicated, a brewing chamber, a brewed-beverage chamber, a water heater separate from said chambers and including a vessel and heating means therefor, said heating means including a control element therefor, a discharge connection from said vessel to said brewing chamber, the discharge capacity of said vessel being no greater than the capacity of said brewing chamber, a replacement-water measuring tank including valve means with connections to said measuring tank and to said vessel and to replacement-water supply means; said valve means in a first relationship connecting said measuring tank to said vessel, said valve means in a second relationship connecting said measuring tank for the supply of replacement water thereto, and said valve means in a third relationship effectively cutting off both said connections; first solenoid-controlled actuating means in actuating relation with said valve means for actuating said valve means between said first and third relationships, second solenoid-controlled actuating means in actuating relation with said valve means for actuating said valve means between said second and third relationships, said first solenoid-controlled actuating means being electrically actuable from a first position to a second position and means for moving the same back to said first position, said second solenoid-controlled actuating means being similarly actuable from and to first and second positions thereof, said first solenoid-controlled actuating means in said first position thereof actuating said control element for admitting heat to said vessel and actuating said valve means to admit water from said measuring tank to said vessel, said first solenoid-controlled actuating means in said second position thereof actuating said control element for controlling the shut-off of heat to said heating means and actuating said valve means to shut off the water supply to said vessel; and electric-timer switch means connected to operate said first solenoid-controlled actuating means in a predetermined cyclical sequence and to operate said second solenoid-controlled actuating means in another sequence having the same cyclic period as said first sequence.

2,660,949
BALER
Stanley D. Russell, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a company of Wisconsin
Application November 16, 1946, Serial No. 710,368
5 Claims. (Cl. 100—187)

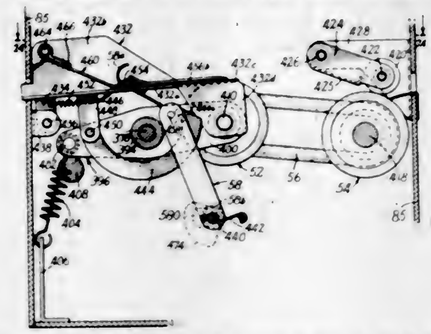


1. In a material retaining device for a baler, the combination of a bale case provided with an opening, a housing secured over the opening in substantially airtight relation thereto, a pivot within the housing and supported thereby, a dog supported on the pivot adjacent the opening, and means for yieldingly urging the dog into the bale case through the opening.

2,660,950
TRIP MEANS FOR ROTARY METERED MAILING MACHINES
Harry L. Lambert, Rochester, N. Y., assignor to Commercial Controls Corporation, a corporation of Delaware
Application March 7, 1947, Serial No. 732,982
14 Claims. (Cl. 101—235)

1. In a machine of the type described, in combination, means for printing upon each letter passing through said machine, means for actuating said printing means, trip means engaged by each letter passing through said machine for controlling the operation of said last mentioned means, a pair of feed rollers for ejecting letters from said machine, said trip means being in the form of a lever the upper end of which when

in tripped position is positioned beyond said printing means and adjacent said feed rollers and held there by each letter passing through the machine, means for driving said feed rollers, said



trip means controlling the operation of said driving means, said driving means continuing to drive said feed rollers as long as said trip means is in a depressed position whereby each letter regardless of its length is fed from said machine.

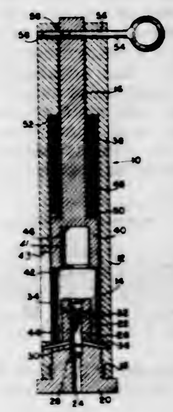
2,660,951
RULING AND STRIPING DEVICE
Christian E. Burckel, Yonkers, N. Y.
Application February 8, 1951, Serial No. 210,069
2 Claims. (Cl. 101—329)



1. A ruling device comprising in combination, an elongated housing having a lower wall and an end wall extending upwardly therefrom at an inner end thereof, longitudinal side walls extending upwardly from said lower wall and forwardly from said end wall and terminating inwardly of an outer end of said lower wall, a forward shaft extending upwardly from said lower wall adjacent the outer end thereof, a rear shaft spaced rearwardly of said forward shaft extending upwardly of said wall, a drive wheel rotatable on said forward shaft having a knurled stem extending upwardly therefrom, a driven wheel rotatable on said rear shaft having a knurled stem extending upwardly therefrom, said wheels having their peripheral surfaces in frictional engagement, a separate inking wheel engageable on the knurled stem of the driven wheel and rotatable therewith, and a separate ruling wheel engageable on the knurled stem of the drive wheel and rotatable therewith, said ruling wheel provided with ruling portions on the periphery thereof for ink receiving contact with the periphery of the inking wheel.

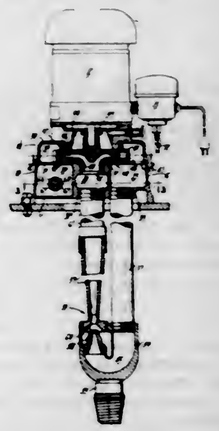
2,660,952
UNDERWATER FIRING MECHANISM
Henry H. Mohaupt, Washington, D. C.
Application December 14, 1944, Serial No. 568,169
7 Claims. (Cl. 102—16)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a firing mechanism, a hollow cylindrical body, a firing pin slideably mounted in a tubular plug having a reduced end and positioned near one end of the hollow body, a plunger in said hollow body adapted to slide longitudinally therein toward said firing pin, means for urging the plunger toward the firing pin, removable means for restraining the plunger, a cup shaped head on said plunger adapted to slide over the reduced end of the tubular plug, upon longitudinal movement thereof when said means for restraining the plunger is removed, without contacting said



firing pin and adapted to transmit its motion to the firing pin only when a liquid is trapped in the cup formed between said cup shaped head and the reduced end of said tubular plug slideably holding said firing pin.

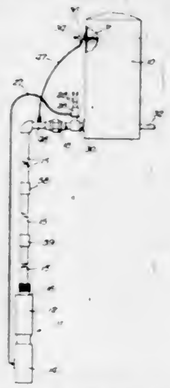
2,660,953
FLUID PUMP ASSEMBLY
Walter H. Tinker and Henry C. Weber, St. Louis, Mo., assignors to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application August 6, 1949, Serial No. 109,048
10 Claims. (Cl. 103—5)



1. A fluid pump assembly, comprising a pressure pump including a base casting formed to provide a suction chamber having a bottom and a side port, a main discharge chamber having a lateral port through which fluid is discharged, and auxiliary discharge chambers one having a bottom port and another having a side port, the bottom and side ports for said auxiliary chambers being adjacent the respective bottom and side ports of said suction chamber, said pressure pump further including an impeller discharge cham-

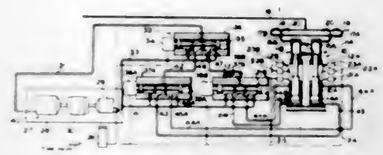
ber and an impeller arranged therein to receive fluid from said suction chamber and expel the fluid into the impeller discharge chamber, each of said auxiliary discharge chambers and said main discharge chamber being in fluid-receiving communication with said impeller discharge chamber, a tank to which said main discharge chamber is connected, a jet pump having a supply conduit and a return conduit for connection respectively into said adjacent side ports for an off-the-well mounting of said pressure pump and for connection into said adjacent bottom ports for an over-the-well mounting of said pressure pump, and plug means selectively and interchangeably fitting said side and bottom ports in said base casting.

2,660,954
AIR VOLUME CONTROL FOR WATER SUPPLY SYSTEMS
Henry C. Weber, St. Louis, Mo., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application December 12, 1950, Serial No. 200,468
6 Claims. (Cl. 103—7)



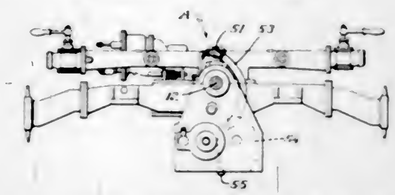
1. In a fluid pumping system, a fluid receiver, a pump for delivering fluid to the receiver, the pump including a conduit fitting at its discharge end, a delivery conduit connected to said fitting and extending to connection with said receiver, a check valve in the conduit relatively adjacent the receiver, provided for preventing return flow of fluid from the receiver through the conduit, suction operated air inlet means open to the portion of the conduit between said check valve and pump, means in said fitting forming a valve seat, stop means in said portion of the conduit at a point thereof relatively remote from said value seat, and a valve element free in said conduit portion for movement between said valve seat and stop means, said valve element normally engaging said stop means during pump delivery of fluid through the conduit, and operable by displacement from said stop means to said valve seat in response to cessation of pump delivery of fluid through the conduit, to close said conduit at said valve seat, the valve element during said displacement thereof to the valve seat, permitting flow of fluid from said conduit portion past said valve seat and through the pump, thereby to create suction in the conduit portion, and said air inlet means operating in response to the suction in the conduit portion, to admit air to the conduit portion for delivery to the receiver upon subsequent pump delivery of fluid through the conduit.

2,660,955
HYDRAULIC MACHINE
Francis J. Kent and Reymond M. Reichl, Forest Hills, N. Y., assignors to Hydropress, Inc., New York, N. Y., a corporation of Delaware
Application June 27, 1950, Serial No. 170,624
8 Claims. (Cl. 103—45)



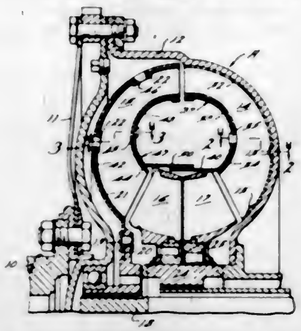
1. In a pressure changing apparatus, the combination comprising at least a pair of pressure intensifiers, at least a pair of cylinders, each of said cylinders being connected to one of said intensifiers, a reciprocable piston in each of said cylinders, means connecting the pressure stroke side of said cylinders with motivating pressure fluid means, flow control means controlling the flow of motivating fluid to said cylinders, piston stroke controlled means connected with said flow control means for the motivating pressure fluid means selectively controlling connection of said motivating pressure fluid means with said cylinders to alternately energize the same, and control means connecting one of said cylinders with a precompression source of fluid while the other piston is moving in its pressure stroke and before it has completed its stroke and has been reversed, so that a substantially constant pressure will be delivered by said intensifiers.

2,660,956
PRIMING ARRANGEMENT FOR CENTRIFUGAL PUMPS
Fred A. Waterous, St. Paul, Minn., assignor to Waterous Company, St. Paul, Minn., a corporation of Minnesota
Application June 3, 1949, Serial No. 96,990
8 Claims. (Cl. 103—107)



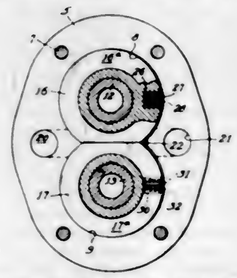
1. A centrifugal pump including a housing having an impeller chamber therein, an impeller in said chamber, a discharge manifold connected to said impeller chamber to receive fluid therefrom, a pair of by-passes connected to said impeller chamber and to said discharge manifold, a valve housing secured to said pump housing to enclose the ends of said by-passes, a source of partial vacuum connected to said valve housing to partially evacuate the same, and a flat spring valve secured between said pump housing and said valve housing and including a spring arm normally overlying the by-pass leading to the impeller chamber.

2,660,957
ROTOR WHEEL
Olavi M. Koskinen, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 16, 1949, Serial No. 81,790
2 Claims. (Cl. 103—115)



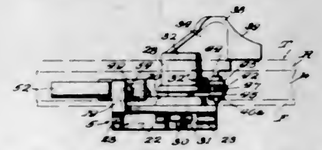
1. A bladed wheel comprising a semi-toroidally shaped, imperforate, supporting casing having a plurality of integrally formed studs pressed out of and projecting from the inner surface of the casing, a plurality of blade elements mounted on the inner surface of said casing, and a blade connecting torus ring concentrically arranged within said casing and mounted on said blade elements, each blade element being of substantially U-shaped cross sectional configuration and comprising a pair of spaced flanges and a connecting web, the flanges extending transversely to the web of each blade at opposite edges thereof and being curved about axes normal to the web, one flange of each blade element being formed to provide a torus ring receiving shoulder portion and including a projecting tab engageable with the torus ring, and the other flange of each blade element being so shaped that it conforms to and may be supported on the casing inner surface, said other flange having openings therethrough that receive and are connected to the casing studs, the said other flanges being of such size and shape as to extend circumferentially along said inner surface of the casing and engage the web of an adjacent blade element to accurately space the blade elements about the supporting casing member.

2,660,958
PRESSURE LOADED GEAR PUMP
John A. Lauck, Shaker Heights, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 11, 1950, Serial No. 178,925
5 Claims. (Cl. 103—126)



1. A pressure loaded type intermeshing gear pump including a housing having a pair of pumping chambers formed therein and an inlet port formed on one side of said housing and communicating with said pumping chambers and an outlet port formed on an opposite side of said housing and communicating with said chambers, intermeshing pumping gears disposed in said chambers and bushings associated with each of said pumping gears, at least one of said bushings being axially movable in response to application of discharge pressure to the rear surface thereof to engage the associated gear side face in sealing relation, and resilient means associated with said axially movable bushing for urging said bushing in a direction substantially normal to the axis of rotation of said pumping gears toward the inlet side of said pump during the assembly of said pump.

2,660,959
AUTOMATIC SAFETY CAR STOP
Charles W. Stickler, Jr., Reading, Pa.
Application March 24, 1950, Serial No. 151,686
3 Claims. (Cl. 104—252)

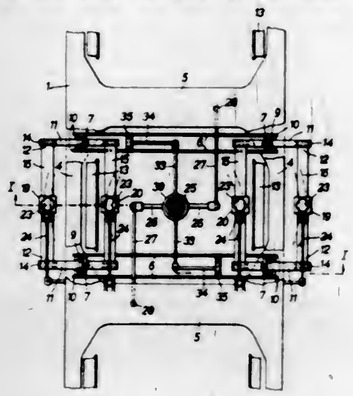


1. In an automatic car stop, a base plate having a seating surface provided with an undercut portion for receiving one of the flanges of a trackway rail, a clamping plate bolted to the base plate for engaging the other flange of said rail and clampingly securing said base plate to said rail, a vertical bearing member extending upwardly from said base plate on one side of said rail, a horizontally swinging arm having an inverted cup-shaped well portion readily detachably supported by said bearing member and having an enlarged end portion provided with a curved wheel engaging surface, said arm being provided with a vertical wall surface extending obliquely with respect to the tread surface of the rail so as to be engaged by the wheel of a car to move said arm in a direction away from said rail, a spring arm pivotally attached to said horizontally swinging arm and means on the base member for locking said spring arm in position such that the spring arm will normally urge the enlarged end of the horizontal swinging arm into a wheel engaging position above the tread surface of said rail.

2,660,960
TWIN-BOLSTER CRADLE ON BOGIES FOR RAILWAY ROLLING STOCK
Gaston Borgeaud and Jakob Waldvogel, Winterthur, Switzerland, assignors to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland
Application December 29, 1949, Serial No. 135,806
Claims priority, application Switzerland December 30, 1948
4 Claims. (Cl. 105—188)

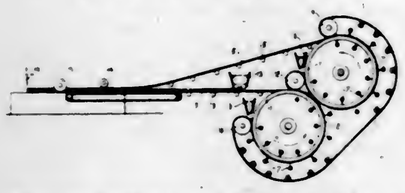
2. In a railway-vehicle bogie which is spring-supported on the axle boxes and from which the vehicle body is suspended on hangers by means of an intermediary cradle comprising a transversely oscillatable bolster both fore and aft of the bogie center wheels, in combination with a king pin fixed to the vehicle body, the improvement comprising a first two-arm lever disposed in the longitudinal direction of the bogie and swiveled at its center to the king pin and at its

ends to rods which in turn are swiveled to each bolster, and a second two-arm lever disposed at right angles to the first lever and swiveled at its center to the king pin and at its ends to the



bogie frame through intermediary rods; the second lever acting as guide for the first lever to hold the latter always substantially parallel to the longitudinal axis of the bogie.

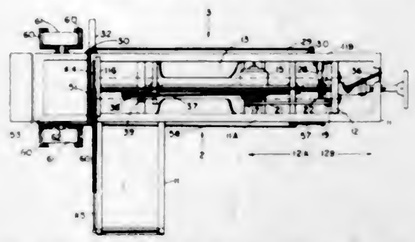
2,660,961
BAKING OVEN
Theodoor R. Neutelings and Willem Neutelings, Bergen op Zoom, Netherlands, assignors to Industrie- en Handelmaatschappij "De Vuurslag" C. V. Roosendaal, Netherlands, a company of the Netherlands
Application January 24, 1949, Serial No. 72,442
Claims priority, application Netherlands January 26, 1948
2 Claims. (Cl. 107—1)



1. An oven for baking wafer batter, for making sandwiches, in the form of continuous sheets, comprising two hollow rotating drums arranged in spaced relation and at different levels, a continuously moving endless band enveloping a portion of the outer circumferential surface of each drum, heating means disposed in each of said drums and means for feeding dough to the juncture between each drum and the band where the latter runs onto the drums.

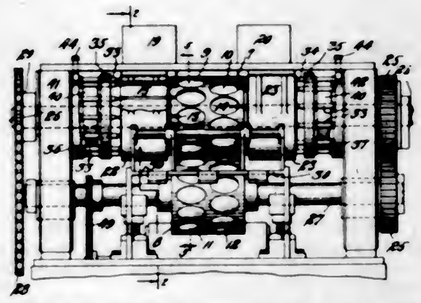
2,660,962
BLOCK ICE-CREAM SLICER
Ralph H. Bloxham, near Theodore, Ala.
Application May 23, 1951, Serial No. 227,919
2 Claims. (Cl. 107—1)

2. An automatic machine for cutting ice cream blocks into slices, said slices to be used with cookies to make ice cream sandwiches, said machine provided with a frame, a shaft mounted on said frame, an electric motor attached to the frame to supply power to the shaft, a reduction gear box, means connecting said motor to said gear box, driving means connecting said gear box to said shaft, means provided to control said shaft through the said driving means, cams and an eccentric attached to said shaft, a longitudinal ratchet operated by one of said cams, a pawl engaging said ratchet, said pawl attached to a pusher board mounted on the frame, said pusher board thereby moving the block of ice cream, a cutter blade controlled by said eccentric for cutting the ice cream blocks, a lifter tray controlled



by another of said cams for lifting the individual slices away from the ice cream block when cut by the cutters, a holder for said cookies attached to the frame, means controlled by a third of said cams for keeping the unused cookies at the top of said holder, and a box removably mounted on the top of said frame, said box provided with means whereby Dry Ice may be placed therein to keep the ice cream at a low temperature while being sliced.

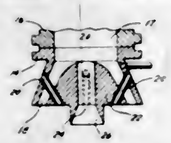
2,660,963
MACHINE FOR CONTINUOUS, HIGH-PRODUCTION MANUFACTURE OF CANDY SUCKERS
Claude J. Covert, Glen Rock, N. J., and William H. Genich, Racine, Wis., assignors to Racine Confectioners' Machinery Co., Racine, Wis., a corporation of Wisconsin
Application April 10, 1951, Serial No. 220,282
3 Claims. (Cl. 107—8)



1. A machine for continuous manufacture of candy suckers comprising companion molding rolls, one of said rolls having mold cavities in the opposite end portions of the same and stick entering grooves extending from the opposite ends of said roll into the individual mold cavities, said roll having end extensions at the outer ends of said stick entering grooves provided with open stick guide grooves in line with said stick entering grooves, stick hoppers over said end extensions and positioned to deliver sticks individually into the open guide grooves in the end extensions, feed plungers carried by said roll at the outer ends of said end extensions in line with said guide grooves and having heads at their outer ends, means for effecting rotation of the companion mold rolls and stationary cam means positioned for engagement by the heads on the outer ends of

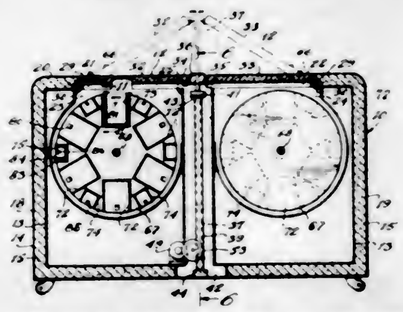
said plungers and including opposed cam tracks spaced to receive the heads of the plungers between them and correspondingly inclined to effect positive projection and retraction of the plungers in said guide grooves in the rotation of said rolls.

2,660,964
NOZZLE FOR MAKING PACKAGED SUNDAES
Frank T. Moser, Easton, Pa.
Application May 18, 1950, Serial No. 162,718
1 Claim. (Cl. 107—27)



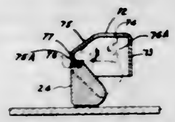
A filling nozzle comprising a central member and an annular member, said annular member being adapted for attachment to the discharge conduit of a filling machine and having a central axially extending inlet opening and a flaring concentric exit opening, attaching means for securing said central member to said annular member, said central member having a central axis opening extending therethrough the upper end of which intercepts the upper end of the opening through the annular member, and said attaching means comprising hollow pins extending from the lower surface of the central member to the outer surface of said annular member, whereby entrapped air during the filling operation may escape from within the annular stream of mix from the annular opening between the two principal members of the nozzle.

2,660,965
PROTECTIVE CASE AND FILING UNIT
Miles E. Landau, New York, N. Y.
Application November 1, 1949, Serial No. 124,857
2 Claims. (Cl. 109—58)



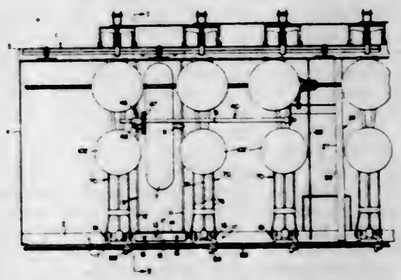
1. A fireproof protective case for housing rotary-type card filing units, said case being constructed with spaced inner and outer shells of sheet steel with an insulation filling between said shells, a rectangular opening in the top of the case to afford access to the filing units, a transversely extending central bar located medially of said top opening, a pair of insulated covers hinged to opposite sides of said bar and closing the top opening of said case when in horizontal position thereon, means affixed to and adjacent the ends of said central bar and depending therefrom between the filing units, and actuating means to engage said first named means for moving said central bar and the attached covers upwardly from closed horizontal relation to open vertical relation and thence downwardly between the filing units to an out-of-the-way position within the said case to afford unobstructed use of the filing units by two or more persons simultaneously while standing on opposite sides of the case and facing each other.

2,660,966
INCINERATOR WITH RAKING ARM
Ivor A. Lyons, Los Angeles, Calif.
Application May 6, 1950, Serial No. 160,466
11 Claims. (Cl. 110—8)



1. In an incinerator having a hearth, an upright shaft disposed above the hearth and means for rotating the shaft, the combination which comprises an outwardly extending arm fixed to the shaft above the hearth and rotatable about the hearth as the shaft is rotated, and at least one rabble hinged to the forward edge of the arm on an axis running in the general direction of the major axis of the arm, the rabble being mounted to swing backward and upward opposite to the direction of rotation of the arm and toward the arm upon the engagement of the rabble of an unusually heavy load on the hearth.

2,660,967
FRAME CONSTRUCTION FOR PLANTERS
Claude W. Walz, Rock Island, and Howard F. Clausen, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Original application January 24, 1946, Serial No. 643,016. Divided and this application March 25, 1950, Serial No. 151,842
3 Claims. (Cl. 111—52)



1. A planter comprising a frame including a transverse rear frame bar, a forward transverse frame bar, a plurality of generally downwardly and forwardly extending crossbars connected at their rear ends to the rear frame bar and at their forward ends to the forward transverse bar, a plurality of planting units connected with the forward transverse frame bar and extending generally rearwardly therefrom, each of said units including a seed can, a wheel frame connected between said transverse frame bars, said wheel frame including members having a forward generally horizontal section disposed generally in the horizontal plane of said forward transverse frame bar and an upwardly extending section, means connecting the latter section with the rear transverse bar, each of said forward wheel frame sections including laterally spaced portions, the lateral spacing of which is greater than the lat-

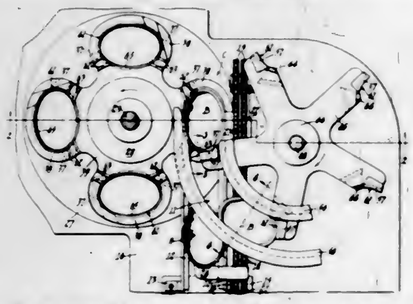
eral distance between adjacent seed cans, said portions being disposed below the level of and at least partially underneath the adjacent seed can, a ground wheel disposed in the space between adjacent seed cans, and means supportingly connecting said ground wheel with the associated wheel frame.

2,660,968

CLOSING MACHINE WITH OVAL CONTAINER AND COVER POSITIONING DEVICE

John T. Livacich, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application July 20, 1949, Serial No. 105,757
5 Claims. (Cl. 113—14)



1. In a machine for attaching covers to oval bodies, the combination of a continuously rotating turret, a cover centering ring on said turret and having an oval opening therein surrounded by a horizontal cover supporting ledge and a tapered throat extending upwardly and outwardly from said ledge for guiding a cover downwardly onto said ledge, said centering ring also having raised locating lugs adjacent the top of said tapered throat for locating said cover above said tapered throat, a mold on said turret in axial alignment with said oval opening in the centering ring and for receiving an oval body therein, continuously moving body feeding means adjacent said turret for feeding a body to said mold in a path substantially tangent with the path of the mold at the point of transfer, parallel tracks over said body feeding means for conducting a cover to said cover centering ring in a path substantially tangent with the path of the ring at the point of transfer, a cover feed finger continuously advancing said cover along said tracks to said centering ring and cooperating with said raised locating lugs to locate said cover above said tapered throat, and a body locating finger cooperating with said mold to align said body with said centering ring and the cover therein, a seaming head above said centering ring for uniting said cover and body in an end seam, and a lifter below and in axial alignment with said mold and centering ring for raising said body through said ring into loose assembly with said cover and into seaming position in said seaming head.

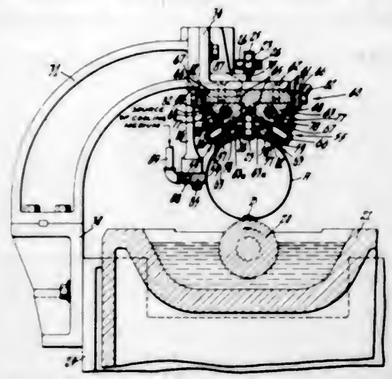
2,660,969

MAGNETIC CAN BODY SUPPORTING STRUCTURE

Custis S. Woolford, South Orange, N. J., and John E. Socke, Pelham Manor, N. Y., assignors to American Can Company, New York, N. Y., a corporation of New Jersey

Application March 23, 1951, Serial No. 217,224
4 Claims. (Cl. 113—60)

4. A magnetic support unit for a can body treating machine, comprising a pair of spaced longitudinal magnetizable pole pieces having longitudinal can body attracting pole faces, means for creating a magnetic field in and between said pole pieces for attracting a can body toward said faces, a nonmagnetic longitudinal track having a can body engaging track face disposed between and extending beyond said pole



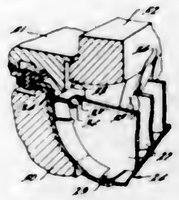
pieces, means for advancing said can body along said track, and adjusting means engageable with said track for moving said track relative to said pole pieces to provide an adjustable air gap between the attracting pole faces of said pole pieces and a can body engaged by said track so that a desired effective intensity of said magnetic field may be created and maintained.

2,660,970

METHOD OF MAKING FLUID COUPLING ROTOR ELEMENTS

Olavi M. Koskinen, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Original application January 23, 1948, Serial No. 3,996, now Patent No. 2,599,461, dated June 3, 1952. Divided and this application July 13, 1949, Serial No. 104,470
4 Claims. (Cl. 113—116)



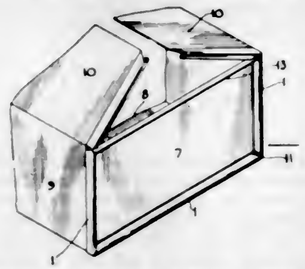
1. The method of making a fluid coupling rotor element comprising providing an annular vane carrier having a dished, cross sectional configuration within which a plurality of radially extending, circumferentially spaced vanes are mounted with each vane normal to said carrier inner surface and having an exposed edge portion adjacent a peripheral marginal portion of said carrier, arranging a ring-like vane retainer about said carrier peripheral edges with the free inner marginal portions of the retainer extending over said exposed edge portions of said vanes, and applying pressure between said carrier and vane retainer at the free inner marginal areas of the retainer intermediate adjacent vanes to cause cutting of the free marginal portions of the retainer by contact with said exposed vane edges, said pressure application cutting of said retainer by said vanes forming vane anchoring tabs overlying said exposed vane edges and causing deflection of those portions of the retainer inner margin intermediate said tabs into the spaces between respectively adjacent vanes.

2,660,971

MANUFACTURE OF CONTAINERS FROM FIBERBOARD AND LIKE SHEET MATERIAL

Vincent A. Hutt-Brenning, Durban, Natal, Union of South Africa

Application September 4, 1946, Serial No. 694,745
Claims priority, application Union of South Africa October 4, 1945
3 Claims. (Cl. 113—116)



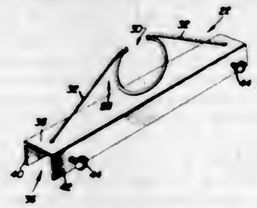
1. A method of joining together sheets of fibre board particularly in the formation of containers, comprising bending an edge of a sheet metal strip to form a channel one side of which extends beyond the other side, enclosing the marginal edge of one board in the channel formed along one edge of the sheet metal strip, then bending the strip-covered marginal edge of said board to form a groove having metal on one inner side and exposed board on the other inner side thereof, then inserting an uncovered marginal edge of a second board into said groove between said metal and said exposed board inner sides and then forcibly closing said groove whereby a joint seam is formed in which the marginal edge of the second board is enclosed by the bent over edge portion of the first-mentioned board, with the bent over edge of the metal strip forming one side of the channel, located internally of the seam, while the remaining portion of said strip is wrapped around the outside of the seam so as to hold the parts securely together and at the same time act as a channel-shaped stiffening means for said seam.

2,660,972

BRACKET WITH TROT-LINE RING

Albert C. Wiseman, Crooksville, Ohio

Application July 28, 1950, Serial No. 176,462
2 Claims. (Cl. 114—218)



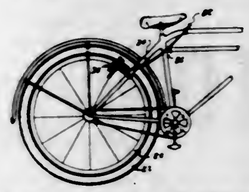
1. Means whereby a row boat may be detachably and slidably moored on a conventional trot-line for a time sufficient to allow the trawler or other occupant of the boat to lift drop-lines for baiting and other purposes wherein brackets are, as is customary usable in opposed pairs on the gunwales of said boat; an improved trot-line bracket comprising a rigid base adapted to be separably but fixedly mounted on the gunwale of the boat, a stout wire ring having a marginal portion contacting and attached rigidly to the central top portion of said base and rising vertically therefrom, said ring being split at a point diametrically opposite to said attached portion and providing spaced apart terminal ends spaced only distances sufficient, of predetermined size, to allow the trot-line to be readily inserted and removed, the distance between said terminal ends being just slightly greater than the diameter of the trot-line, and a pair of brace rods, said rods being longitudinally aligned and disposed in outwardly and downwardly inclined positions in respect to the base, the outer ends of the rods being anchored on the outer end portions of the base and the inner ends being rigidly attached to the respective terminal ends of said ring and being flush with said terminal ends.

2,660,973

SIMULATED MOTOR

Napoleon J. Portlance, Minneapolis, Minn.

Application April 24, 1952, Serial No. 284,016
6 Claims. (Cl. 116—56)



1. In a simulated motor for bicycles comprising hollow sound chamber means provided with a pair of spaced openings, one of the openings being larger than the other opening, a first hollow tubular member substantially similar in diameter with the small opening in the sound chamber positioned in the small opening projecting from the sound chamber providing a sound outlet, a second hollow tubular member having substantially the same diameter as the larger opening positioned in the larger opening and projecting from the sound chamber providing a second sound outlet, the second hollow tubular member being of greater length than the first tubular member, a vibrator mounted inside the chamber, a rotary shaft mounted in the chamber with a portion of the shaft extending outside the chamber, a friction disk on the extending portion of the shaft for actuating said shaft, and vibrator fingers mounted on the shaft inside the chamber for engaging the vibrator, and when the vibrator fingers engage the vibrator different sound tones are produced by the simulated motor.

2,660,974

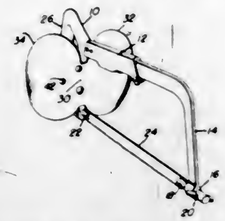
HACK SAW GUARD

Lloyd S. Swain, Martinsville, Va., assignor to Kathleen R. Swain, Martinsville, Va.

Application June 30, 1952, Serial No. 296,286
3 Claims. (Cl. 145—35)

1. A knuckle guard for an open frame saw comprising a guard disk, said disk being cut away to provide a central portion fitting between the back and the blade of the saw, a connector plate secured on the back of said disk, a lock rim on said plate, a diagonally mounted guide pin dis-

posed on said plate, said pin converging toward said rim, a dog slidable on said pin, resilient



means urging said dog along said pin to approach said rim.

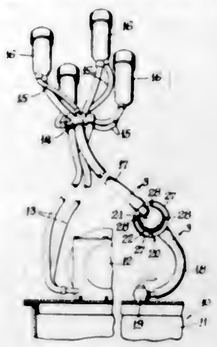
2,660,975
FOLDING PATROL STOP FLAG
John H. Sprenger and Robert L. Jefferson, San Antonio, Tex.
Application October 20, 1952, Serial No. 315,754
2 Claims. (Cl. 116—63)



1. In a portable roadside signal, an elongated staff having a hand grip at one end, an arm diverging at an acute angle from the opposite end of said staff, a pivotal connection between said arm and said staff, a foldable sign member having opposite edge portions secured respectively to said staff and arm, a latch member holding said arm away from said staff and releasable to permit folding of the arm parallel to the staff, a block pivotally mounted on said staff and movable into and out of position longitudinally of the staff, said arm and block having cooperating means interlocking upon the block being in said longitudinal position, and clamping means securing said block upon the said cooperating means being interlocked.

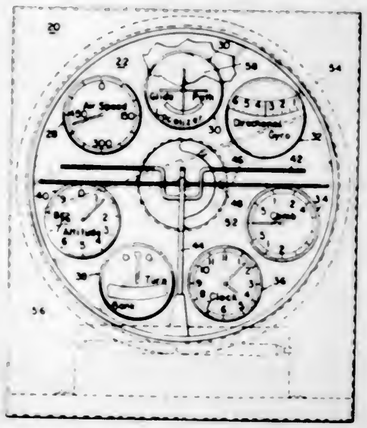
2,660,976
SIGNALING DEVICE FOR VACUUM MILKING MACHINES
Harold W. Hein, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 7, 1951, Serial No. 260,472
7 Claims. (Cl. 116—112)

1. A signal device for a vacuum milking machine or pipe line milking system comprising a casing, a flexible membrane extending transversely within said casing to provide an inlet chamber and an outlet chamber, an inlet connection in communication with said inlet chamber, an outlet connection in communication with said outlet chamber, said membrane having an opening in continual communication with said inlet and outlet chambers, signalling means in said outlet chamber including a whistle having an opening adapted to communicate with the atmosphere, a funnel-shaped member having a portion with an opening disposed in spaced relation with respect to said flexible membrane to provide communication between the whistle openings and the outlet chamber whereby during a vacuum depression in said outlet chamber said



whistle emits a signal, said flexible membrane being movable over the opening of the funnel-shaped member for breaking communication between the whistle opening and the outlet chamber during the flow of milk from the inlet chamber through the opening in the flexible membrane to the outlet chamber.

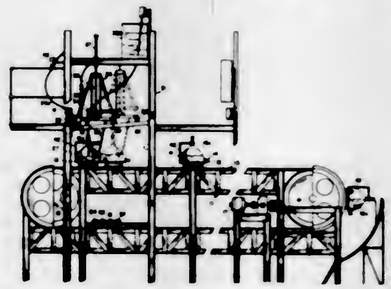
2,660,977
FLIGHT INSTRUMENT
Prince H. Gordon, North Merrick, N. Y.
Application October 28, 1949, Serial No. 124,223
1 Claim. (Cl. 116—124)



A composite flight instrument particularly adapted for instrument flying of aircraft and comprising a plurality of pre-selected flight-condition indicators substantially symmetrically arranged in a peripheral pattern around a center portion and forming a group background, and means providing an artificial horizon indicator including a fixed reference device projecting laterally in opposite directions from the center portion of the group background and substantially transversely coextensive with the maximum periphery of the group background with the ends thereof located between adjacent indicators, and said horizon indicator further including a movable indicating arm spaced from the plane of the group background and said reference device and

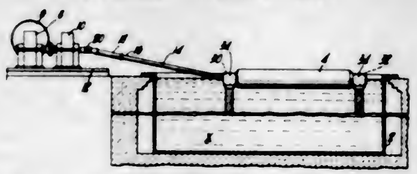
substantially transversely coextensive with the maximum transverse extent of the group background and forming with said fixed reference device an enlarged foreground to present the aircraft attitude by relative positioning between the indicating arm and fixed reference device whereby the aircraft attitude is prominently displayed for subconscious vision without specific concentration thereon.

2,660,978
CATHODE-RAY TUBE COATING APPARATUS
James H. Dyne, Packanack Lake, and Cornelius M. Baker, Clifton, N. J., assignors to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application July 30, 1951, Serial No. 239,346
5 Claims. (Cl. 118—2)



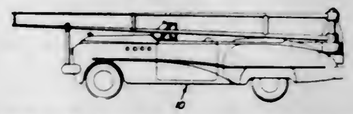
1. In combination, a conveyor for supporting and moving a plurality of spaced receptacles thereon, a support for said conveyor, a carriage, means attached to said support for movably mounting said carriage, said means including rails inclined to the horizontal plane of said support to permit the weight of said carriage to return it to the lower position of said rails, means for interconnecting said carriage and said conveyor to move said carriage through a pre-determined distance with said conveyor and thereafter release said carriage, and dispensing means mounted on said carriage movable with said receptacles for introducing fluorescent screen-forming materials into said receptacles.

2,660,979
APPARATUS FOR CONNECTING METAL COATING ROLLS WITH A DRIVING MECHANISM
Max E. Bills, Gary, Ind., assignor to United States Steel Corporation, a corporation of New Jersey
Application November 26, 1952, Serial No. 322,766
3 Claims. (Cl. 118—258)



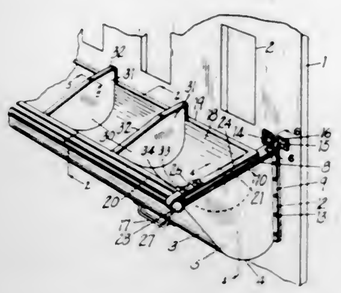
1. In a continuous metal coating apparatus including a tank for containing molten coating metal, a coating roll rotatably mounted in said tank, and driving means disposed adjacent said tank for rotating said roll, the improvement therewith of a flexible connection between said driving means and said roll, said flexible connection comprising a shaft projecting axially from one end of said roll, the outer end of said shaft being counterbored, said shaft having a longitudinal slot in the inner side wall of its counterbore, a spindle pivotally attached at one end to said driving means, a ball on the opposite end of said spindle integral therewith, a pin projecting from the surface of said ball normal to the longitudinal axis of said spindle, said ball being fitted snugly in the counterbored end of said shaft with said pin fitted in said slot.

2,660,980
RACE HORSE STARTING DEVICE
Walter E. Giese, West Salem, Ill.
Application February 21, 1950, Serial No. 145,507
3 Claims. (Cl. 119—15.5)



1. A starting gate for horse races comprising an automotive vehicle a gate unit mounted on the vehicle containing swingable gates and a complete electrically controlled and operating mechanism, said gate mechanism including a pair of upright posts, a swingable gate arm on each post arranged on each side of the vehicle movable into a position at right angles to the vehicle and movable into a position alongside the vehicle, a hydraulic cylinder for each gate arm, a piston in each cylinder movable in both directions under the influence of hydraulic fluid, a crank mechanism connected with said piston for swinging the gate arm into its positions means operating each of said hydraulic cylinders including a valve assembly with a plurality of electrically operated normally closed solenoid valves controlling the admission and discharge of the hydraulic fluid at each end of the cylinder respectively, a pressure fluid system carried by said vehicle supplying fluid under pressure to the cylinders including a tank for the pressure fluid, an accumulator for storing fluid under pressure, a pump delivering fluid from said tank into said accumulator under pressure and an electric motor for driving said pump, current supply circuits connected to the solenoids of the solenoid valves with a common energizing circuit branch for all the solenoids of the solenoid valves controlling both hydraulic cylinders and with separate circuit branches connected to the solenoids of valves controlling the fluid admission to one side of each cylinder, manual change over switches alternatively closing the said separate circuit branches leading to different sides of one cylinder, a further manual switch in said common energizing branch controlling the energization of the controlling solenoids, an automatic switch in one of said separate circuit branches associated with each cylinder, means operating said automatic switch including an operating lever moved by said crank mechanism when the crank has reached a predetermined position, said automatic switch cutting off the current supply, de-energizing the solenoids and thereby cutting off the further admission of pressure fluid to the cylinder, a separate energizing circuit for the electric motor driving the pump, an electric control means for said energizing circuit, an operative supply circuit for said control means, and a fluid pressure responsive switch in the last named operative supply circuit interrupting said operative supply circuit when a predetermined fluid pressure has been reached in the system.

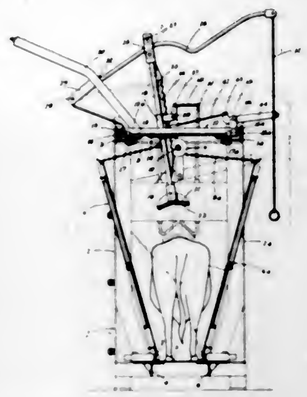
2,660,981
COMBINED FEED RECEPTACLE AND TROUGH
Carl O. Jorenby, Kennedy, N. Y.
Application April 28, 1950, Serial No. 158,861
4 Claims. (Cl. 119—61)



1. A combined feed receptacle and feed trough adapted for mounting as a unit on a support provided with spaced openings through which animals may have access to the receptacle and trough, in combination, a receptacle comprising a front wall and a downwardly curved bottom formed integrally with and merging into the front wall, and end members secured to the ends of the front and bottom walls and having outwardly projecting top and rear flanges, angled reinforcing and hanger members secured to the said top and rear flanges of said end walls and having pivot eyes at the angles thereof, pivots adapted to be mounted on the support and coacting with the pivot eyes of said hanger members to support the receptacle to swing forwardly and upwardly, the support constituting the rear wall of the receptacle when the receptacle is in erected position, a combined wall reinforcing and pivot rod around which the upper edge of the front wall is wrapped, a trough of U-section having outturned flanges on its front and rear edges and provided with end walls having outturned flanges on their upper edges, reinforcing bars secured to the undersides of said flanges on said trough end walls, forwardly projecting hinge members secured to said reinforcing bars and swingably engaging said pivot rod, said trough being swingable on its hinges to a depending position at the front of the receptacle and swingable therewith or to erected position with its said reinforcing bars supported on the forwardly projecting arms of said receptacle hanger members, longitudinally spaced partitions for said troughs having rear portions projecting above the rear edge of the trough and constituting guards preventing animals reaching into a trough adjacent the one in front of an opening in the support, and reinforcing and guard strips secured on the upper edges of the partitions to project at each side thereof and secured at their ends to the flanges on the front and rear edges of the trough.

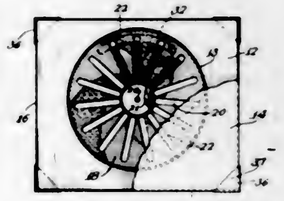
2,660,982
ANIMAL HOLD-DOWN FOR CATTLE CHUTES
Bert F. Linton, Visalia, Calif.
Application July 26, 1952, Serial No. 301,137
5 Claims. (Cl. 119—98)

1. In an animal retaining chute which includes longitudinal transversely spaced top frame beams below which an animal in the chute stands; a saddle adapted to engage the back of such animal, a carriage at a level adjacent that of and between the beams, means supporting the carriage from the beams for movement lengthwise thereof, means between the carriage and saddle



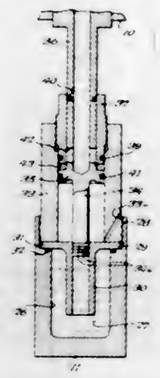
supporting the latter for vertical movement, manual control means mounted on the carriage to lower the saddle into pressing engagement with the animal, and releasable means on the carriage holding the saddle in a lowered position.

2,660,983
COLORING BOARD
Charles H. Lanning, Woodstock, Ill.
Application September 23, 1950, Serial No. 186,350
1 Claim. (Cl. 120—23)



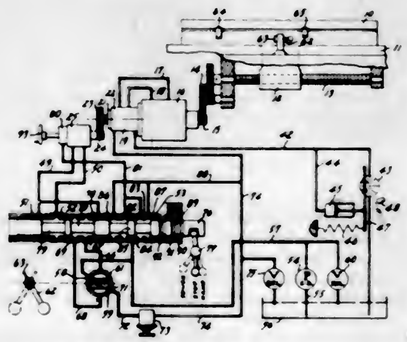
In a device of the character disclosed, a container having a cover, a crayon supporting disc rotatable in said container and provided with a plurality of radially disposed equally spaced pockets adapted to contain therein an assortment of crayons, said container cover having a T-shaped opening formed therein with the leg portion of said T-shaped opening disposed radially of the axis of rotation of the disc and of such width that only a selected one of said pockets may be aligned therewith for withdrawal of a single crayon therefrom through said leg portion, the arm portions of said T-shaped opening being arcuate, and the length of said arm portions of said T-shaped opening being such as to expose at all times a portion of at least two of said radially disposed pockets which are not aligned with said leg portion of the T-shaped opening, said arm portions of the T-shaped opening permitting insertion of a disc revolving member therethrough for engagement with said disc to cause said disc to rotate to bring another single crayon into position aligned with said leg portion of the T-shaped opening.

2,660,984
MACHINE TOOL WITH LIQUID SPRING ACTUATED RAM
Robert F. Zumwalt, Kenmore, N. Y., assignor to Wales-Strippit Corporation, North Tonawanda, N. Y., a corporation of New York
Application March 1, 1951, Serial No. 213,322
10 Claims. (Cl. 121—13)



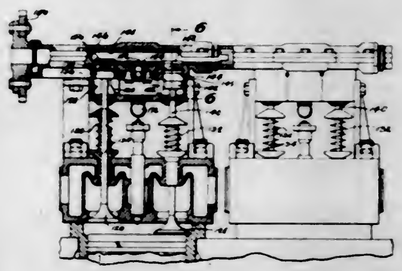
1. A device having a member which is advanced to perform a working stroke and which is retracted preparatory to a succeeding working stroke, said member having a chamber in which a body of liquid is confined, a cylinder extending into said chamber and spaced from the walls thereof, a stationary piston which occupies said cylinder, means for retracting said member and in so doing cause said piston to compress said body of liquid, means for relieving said last mentioned means so that said body of liquid may expand to effect said working stroke of said member, and means for cushioning said member as it approaches the limit of said working stroke.

2,660,985
HYDRAULIC FEED SYSTEM
Hans Ernst, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application October 6, 1951, Serial No. 250,091
1 Claim. (Cl. 121—39)



In a transmission and control mechanism for feeding a machine slide relative to its support, the combination of interengaging motion transmitting elements including one element attached to said slide and a rotor element mounted on said support, a rotatable fluid operable motor for causing actuation of said rotor to effect movement of the slide, a source of fluid pressure for said motor, a rotary servo-valve having a stop position for connecting said source of pressure to said motor including relatively movable valve parts, one of which is movable in response to actuation of said motor, a second hydraulic motor for driving said other valve part, said second motor having a pair of channels connected thereto through which fluid is circulated to drive said motor, a fluid operable brake for said second motor, manually operable means for rotating said second motor, and a selector valve having a first position for releasing said brake, and connecting fluid pressure to said channels to effect operation of the second motor, a second position for disconnecting fluid pressure from said channels and causing application of said brake, and a third position for interconnecting said channels and releasing said brake for manual operation of the second motor.

2,660,986
MOTOR HAVING HYDRAULICALLY OPERATED VALVE
Oscar H. Lademan, New York, N. Y.
Application July 1, 1949, Serial No. 102,544
4 Claims. (Cl. 121—150)

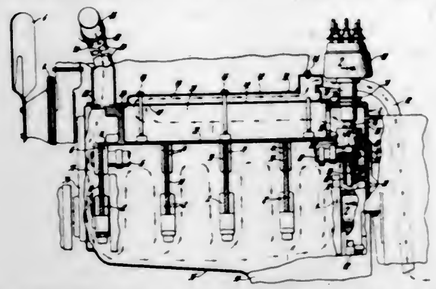


1. Valve opening mechanism for an automatically seated valve, said mechanism comprising, in combination, a cylinder, a clearance piston therein rigidly carried by the valve stem; a hollow distributor; means for rotating said distributor; a pressure fluid supply; an intake port for the distributor in constant communication with the interior of the distributor, to maintain the same supplied at all times with pressure fluid; and a discharge port for said distributor adapted to be rotated intermittently into communication with the said cylinder above the piston, intermittently to move said piston outwardly of its cylinder to open the valve against the action of its seating means, said cylinder being reduced in diameter at its inner end to retard the closing movement of the valve.

2,660,987
INTERNAL-COMBUSTION ENGINE VENTILATING SYSTEM
Robert T. Doughty, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 24, 1951, Serial No. 207,601
9 Claims. (Cl. 123—41.86)

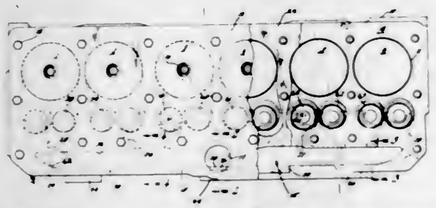
3. In an internal combustion engine, a cylinder block forming a crankcase and a valve compartment interconnected by an opening, said crankcase having a ventilating inlet and said valve compartment having a ventilating outlet,

an engine ignition distributor having a rotary driving means extending through said opening,



and a ventilating fan rotatable in said opening with said driving means.

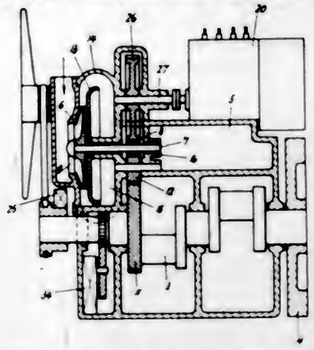
2,660,988
MANIFOLD
Francis H. Reindl, Kenosha, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application October 27, 1952, Serial No. 317,110
11 Claims. (Cl. 123—52)



1. In combination with a cylinder block having a manifold channel extending along the top thereof, a head for said block having a carburetor passage communicating with the manifold channel and arranged to fit over the middle of said manifold channel, said cylinder block having ports in open communication with the manifold channel and arranged along one side of said channel, the underside of said head having a channel formed therein adjacent said passage and communicating with said ports.

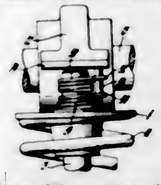
2,660,989
TWO-STROKE ENGINE WITH SCAVENGING AIR BLOWER
Adolf Schnürle, Johann Kopf, Otto Elwert, and Emil Hörz, Stuttgart, Germany; said Kopf, said Elwert, and said Hörz assignors to said Schnürle; Gertrud Schnürle, sole heir of said Adolf Schnürle, deceased
Application March 3, 1949, Serial No. 79,492
Claims priority, application Germany
October 14, 1948
6 Claims. (Cl. 123—55)

1. In a two-cycle engine having a crankcase and a crankshaft with crank arms and having two V-arranged banks of cylinders forming an angular through space between each other, in combination, a scavenging-air receiver extending along the bottom of said space and being integral with said crankcase, centrifugal scavenging-air blower means disposed adjacent to said banks at the forward end of said crankcase, said blower means comprising a housing and an impeller disposed in said housing and having a shaft parallel to said crankshaft at the height of said receiver, said housing having a rearward portion integral with said crankcase and having in said portion an annular space behind said impeller and in direct communication with said receiver, a gear trans-



mission connecting said crankshaft with said impeller shaft and having a spur gear disposed on said crankshaft, said gear being joined with the most forward crank arm and extending in the plane of said crank arm.

2,660,990
VALVE ROTATING DEVICE
Andrew W. Zmuda and Thomas H. Mitselfeld, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 31, 1950, Serial No. 153,074
12 Claims. (Cl. 123—90)

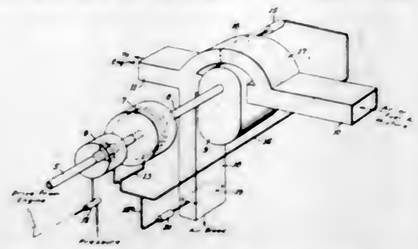


3. In combination with a poppet valve mounted for axial rotation and reciprocation, valve reciprocating and rotating means including a first member engageable with the valve and supported for oscillation about an axis laterally of and substantially perpendicular to the valve axis, and a second member carried by the valve and in one-way rotative driving relation therewith, one of said members having a portion loosely journaled in the other member at a distance longitudinally of the axis of said first member from the valve axis whereby oscillation of the first member serves to crank the second member in alternate directions about the valve axis and impart intermittent rotation of the valve.

2,660,991
SUPERCHARGER DRIVING CONTROL
Eugene W. Wasielewski, South Euclid, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 22, 1949, Serial No. 111,695
12 Claims. (Cl. 123—119)

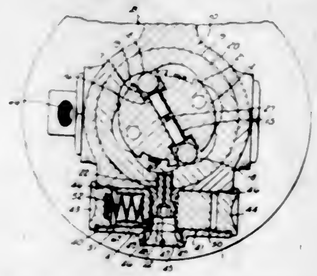
1. A supercharger for an internal combustion type engine including clutch means for drivingly connecting the supercharger to the engine, governor means associated with said supercharger and responsive to engine speed, and diverting means associated with said supercharger and adapted for being opened by said governor means

at a predetermined engine operating speed at which said engine develops maximum torque re-



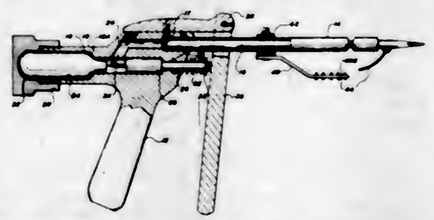
gardless of further increases in engine speed to divert the output of said supercharger from said engine.

2,660,992
AUTOMATIC TIMING MEANS FOR FUEL PUMPS
Vernon D. Roosa, West Hartford, Conn.
Application February 3, 1950, Serial No. 142,276
16 Claims. (Cl. 123—139)



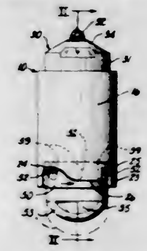
1. A device for use with a fuel pump of the type having a stationary cam to vary the position of the fuel pump cam responsive to the speed of an associated engine comprising means forming a pressure chamber, a movable member for attachment to the cam extending into the chamber, a free piston in the chamber for actuating the movable member in a cam advancing direction, spring operated means biasing the member in a cam retarding direction, means forming an inlet to the chamber for receiving fluid under pressure, and a feed pump driven by the engine in fluid communication with the said inlet.

2,660,993
HARPOON GUN
Charles R. Blakeslee, Hollydale, Calif.
Application September 9, 1950, Serial No. 184,097
12 Claims. (Cl. 124—11)



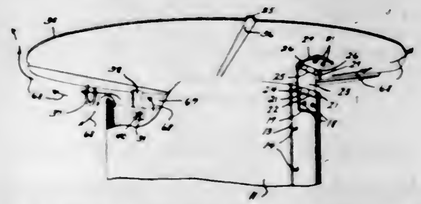
5. In a harpoon gun, the combination which comprises a tubular barrel for holding a harpoon to be propelled, a container rigidly affixed to the barrel forming a chamber for holding a pressurized gas-filled cartridge, a conduit connecting one end of the chamber to the barrel, a stylet disposed in the container in proximity to the end of the chamber opening into the conduit and movable with respect to the cartridge and the container, for puncturing the cartridge and thereby releasing the propellant gas, and means projecting outside the container for moving the stylet.

2,660,994
ABRASIVE WHEEL DRESSING TOOLS
Harry George Teather, London, England, assignor to Precision Diamond Products Ltd., London, England, a corporation of Great Britain
Application May 16, 1951, Serial No. 226,555
6 Claims. (Cl. 125—11)



1. An improved abrasive wheel dressing tool including in combination, a tool head having a nib receiving bore, a mounting nib having a body portion telescoping within the bore of the tool head, clamping means set within the tool head for adjustably securing the nib body in the bore of the tool head, an index disc secured to the nib body having a series of equally spaced indexing stations indicated thereon, said tool head having a wall contoured to present a pair of spaced notches designed to expose two alternate indexing stations in said index disc and conceal the remaining indexing stations therein.

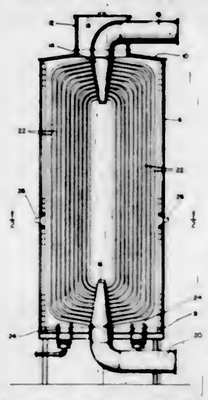
2,660,995
TOBACCO DRIER
George H. Swearingen, Louisville, Ky.
Application July 22, 1952, Serial No. 300,210
2 Claims. (Cl. 126—59.5)



1. A tobacco dryer comprising a wall defining a fire chamber at least one end of which is open, a heat spreader mounted on said wall for movement to a masking position of said opening, an unmasking position of said opening and a completely open refueling position, hinge means between said wall and spreader for permitting said movement of the spreader to its three positions and comprising a leaf secured to said wall, a second leaf secured to said spreader and an intermediate leaf pivotally connected to each of the other leaves, and a spreader rest on said wall and having an enlarged main body portion and a reduced portion, said spreader having a large slot cooperating with the main body portion of

said rest to retain said spreader in its masking position in cooperation with said hinge means and a small slot cooperating with the reduced portion of said rest to retain said spreader in its unmasking position in cooperation with said hinge means.

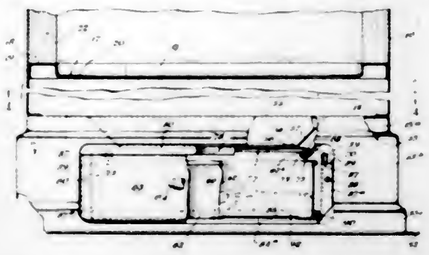
2,660,996
FLUID HEATER
Edward J. Wasp, Brooklyn, and John S. Wallis, New York, N. Y., assignors to Petro-Chem Process Company Incorporated, New York, N. Y., a corporation of Delaware
Application July 11, 1950, Serial No. 173,086
3 Claims. (Cl. 126—109)



1. In a heater for gaseous fluid having a combustion chamber, a floor and an inlet pipe: a tapered inlet manifold having its larger end connected to said pipe and defining a vertical axis; a heating surface assembly connected to said manifold to provide parallel paths for flow of fluid and including a plurality of vertical heating tubes arranged in thin single tube banks which define planes extending radially from said axis, and means connecting one end of each said tube to said inlet manifold, the tubes farthest from said axis being connected to said manifold near its larger end, the tubes closest to said axis being connected to said manifold near its smaller end and the intermediate tubes being connected to said manifold at corresponding intermediate localities; and radiant heating burners discharging parallel to said axis between successive banks of tubes for exposing each tube of said banks to radiant heat from both sides.

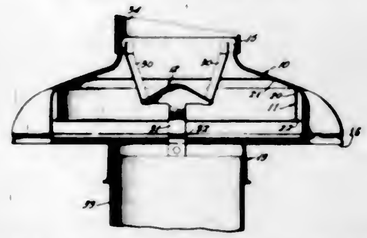
2,660,997
STOVE AND ASH DISCHARGE MEANS THEREFOR
Cecil E. Chesser, Hebron, Ohio, assignor to Newark Stove Company, Newark, Ohio, a corporation of Ohio
Application October 22, 1949, Serial No. 123,040
2 Claims. (Cl. 126—245)

1. In a combination of the class described, a casing providing a combustion chamber for solid fuel and an ash pit thereunder with a grate disposed therebetween, a sheet metal yoke disposed below said grate, said yoke having a downwardly and inwardly sloping neck defining an open space approximately coextensive with the area of said grate, resilient bearing means spaced below said neck, a slide plate engageable with said bearing means and with said neck for normally substantially closing the opening of said yoke against passage of ash from the grate into the ash pit, said bearing means comprising a plurality of resilient arms having roller bearings



journalled thereon, and means for preventing lateral displacement of said plate.

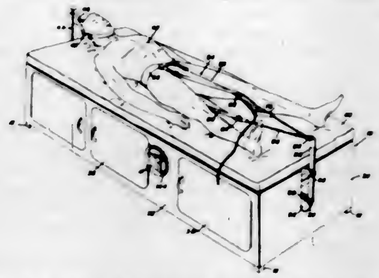
2,660,998
DOWNDRAFT DIVERTER
Richard E. James and Albert J. Lampert, Los Angeles, Calif., assignors to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application March 19, 1949, Serial No. 82,386
4 Claims. (Cl. 126—307)



1. A shallow-type downdraft diverter comprising a relatively shallow dome-shaped hood being open at the bottom having an aperture at the top adapted to communicate with a vent for the passage of products of combustion, a cone-shaped substantially circular diverter in spaced relation and subjacent said hood aperture, the diameter of the diverter being substantially less than the diameter of said aperture, and an annular flange depending from, and the upper edge thereof being in intimate contact with said hood, the diameter of said flange being greater than the diameter of said hood aperture and less than the diameter of the lower edge of the hood and the lower edge of the flange being disposed above the lower edge of said hood, said hood aperture, said diverter and said annular flange being in coaxial relation, a passage for products of combustion being thereby formed between the diverter and the flange and thence upwardly through the aperture in the top of the hood.

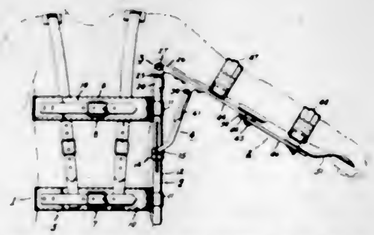
2,660,999
SPINAL COLUMN ALIGNING TABLE
King N. Thornton, West Palm Beach, Fla.
Application May 16, 1951, Serial No. 226,630
6 Claims. (Cl. 128—33)

2. A therapeutic machine comprising a table for receiving a patient having a longitudinal slot therethrough, a carriage means disposed below and guided for longitudinal reciprocation with respect to the table, kneading means carried by the carriage and extending through said slot, means for periodically tensioning the spinal column of a patient comprising means carried by the table adapted to be secured to a patient, a lever pivotally mounted in the table for movement towards and away from said last means, means carried by the lever adapted to be secured to a patient, a prime mover, and means operatively connecting the prime mover to the lever and the carriage means to simultaneously oscillate the lever and reciprocate the carriage means,



including a pair of power driven operatively connected, rotatably mounted shafts, each of said shafts having a crank thereon, a first pitman connecting one of said cranks to the lever, and means including a second pitman operatively connecting the other crank to the carriage means, the ratio of rotation of the shafts being such that the reciprocation of the carriage will be asynchronous with the oscillation of the lever.

2,661,000
SURGICAL SPLINT
William E. Gazeley, Richard W. Meysner, and Fritz P. Graul, Schenectady, N. Y.
Application June 25, 1951, Serial No. 233,432
8 Claims. (Cl. 128—88)

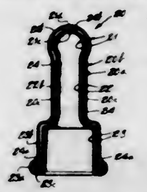


6. A surgical splint comprising a body portion, an arm portion, means including a joint connecting said arm portion to said body portion, a spring supported by said body portion coaxially of said joint for compression and expansion parallel to the axis of said body portion, a tube substantially enclosing said spring, a collar positioned about said tube to be biased by said spring, and a strut joining said collar to said arm portion whereby the same is biased normally to an elevated position by said spring.

2,661,001
INFANT FEEDING MEANS
Benjamin Alstadt and Harold Sappey, New York, N. Y.
Application July 9, 1951, Serial No. 235,792
14 Claims. (Cl. 128—252)

1. A nursing nipple of the character described comprising a multi-layer elastic tubular wall

structure terminated by a perforated head for passing a flow of liquid from a bottle therethrough, said wall structure formed of superimposed layers having an elongated air conduit extending therebetween, said air conduit having



an inlet located in the region of the perforated head and an outlet spaced therefrom both communicating with the exterior of the nipple, said conduit being partitioned off from said liquid flow within the tubular structure.

2,661,002
PROTECTIVE ORTHOPEDIC GARMENT
Julia E. Silverman, New York, N. Y.
Application November 1, 1951, Serial No. 254,357
6 Claims. (Cl. 128—287)



1. A protective orthopedic garment comprising a wrap-around body member having a vertically extended front opening, said member having adjacent vertical side edge portions on opposite sides of said front opening spaced from each other at least over the lower portion of their vertical height, means releasably joining said edge portions together above said spaced lower portions, a crotch section extended from the bottom of said body member at the rear thereof, a front panel continuing from said crotch section and conformed to the shape of the space formed by the spaced lower portions of said vertical edge portions, and means joining said front panel to the spaced lower ends of said vertical side edges, said wrap-around body member being formed of an outer elastic layer and an inner waterproof layer, said outer layer having its bottom portion overlapping the top portion of said inner layer, and stitches securing the top edge of said inner layer to said outer layer.

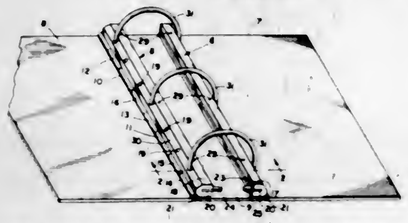
2,661,003
VARICOSE VEIN STRIPPER WITH FLEXIBLE GUIDE LEADER
William John Devine, North Plainfield, and Bruce J. Carroll, Plainfield, N. J.
Application November 20, 1952, Serial No. 321,632
13 Claims. (Cl. 128—303)



1. A varicose vein stripper comprising: an attenuated thrust-traction body constructed of resilient material and being of such diameter that it is slightly flexible laterally and yet sufficiently

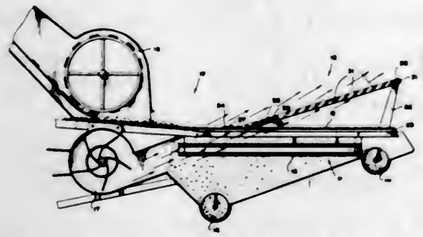
stiff for vein penetration without buckling under the influence of frictional resistance; and a guide leader arranged in prolongation of the entering end of said thrust-traction body, said guide leader being sufficiently more flexible than the thrust-traction body to yieldingly follow deviations in the course of the vein and being of such length that the total frictional resistance to thrust normally encountered will not cause said guide leader to buckle during penetration.

2,661,004
LOOSE-LEAF BINDER
Glenn H. Ehlke, Chicago, Ill.
Application January 17, 1952, Serial No. 266,976
1 Claim. (Cl. 129—24)



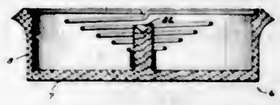
Loose-leaf binder mechanism, comprising cover means including right hand and left hand cover elements, flat back bone means, right hand and left hand ledge elements mounted parallelly and having inner edges facing one another, a hinge element securing articulately the outer edges of the said ledge elements to the said cover means simultaneously securing the said cover means to the said back bone means, the said ledge elements being provided with slots along the said inner edges, a multiplicity of holes in transverse relationship to the said slots so that an imaginary geometric plane passing through the axis thereof will be in coplanar relationship with the bottom portions of the said slots, locking latch means slidably positioned in the said slots, loop means removably secured through the said holes and provided with notches adjacent their termini engageable releasably by the said locking latch means, guide pin means secured to the said ledge elements, and alignment slotted portions on the said locking latch means slidably operative on the said guide pin means to limit the movement of the said locking latch means to operative and inoperative positions.

2,661,005
CHAFFER ATTACHMENT
Donald C. Peters, Paola, Kans.
Application March 24, 1950, Serial No. 151,689
8 Claims. (Cl. 130—24)



1. In a combine having a cleaning shoe, a substantially horizontally disposed chaffer having an advance end and a rearward end located within the shoe, means to introduce the load onto the chaffer, a fan located below and forwardly of the advance end of the chaffer for directing air through the chaffer and means below the chaffer for receiving the separated grain, the improvement comprising a foraminous member having a forward end supported by and extending upwardly from and angular to the chaffer, the forward end of the foraminous member being spaced rearward of the advance end of the chaffer and forward of the mid-length point of such chaffer, whereby the load will be directed upwardly away from a substantially large area of the rearward end of the chaffer to permit the grain to readily fall through the chaffer into the grain receiving means, the fan and foraminous member being relatively positioned to present the air travel path as extending through the chaffer forward of the entrance to the foraminous member to thereby provide straw-load movement over such foraminous member by movements of air blasts of fan origin applied over and through the foraminous member.

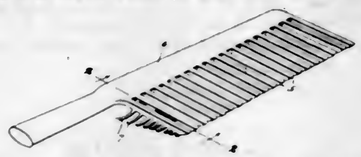
2,661,006
ASH TRAY
Harvey Paul Forton, San Lorenzo, Calif.
Application June 13, 1950, Serial No. 167,745
2 Claims. (Cl. 131—235)



2. An ash tray having a flat bottom and a vertically disposed wall having a recess in the upper edge and in the inner surface of the wall, said recessed wall surrounding the flat bottom, a vertically disposed cylindrical post extending upwardly from the center of the bottom to a height less than that of the recessed wall, the top of the post having means adapted to receive the lit end of a cigarette to extinguish the same, and a cigarette rest in the form of a basket comprising a single piece of wire having plural vertically superposed coils having a diameter slightly larger than the post and adapted to fit thereover, rest on the bottom of the tray and to cover the lowermost portion of the post, a series of relatively close equally spaced coils forming an upwardly and outwardly directed spiral adapted to support a cigarette and extending toward the recess in the side wall, a final coil of said wire substantially circular in form and extent adapted to rest in said recess, and a straight upwardly and radially outwardly extending portion of said wire joining the end of the outermost turn of the spiral and said final coil, said outwardly extending portion being substantially perpendicular to the outermost spiral and to said final coil and having a length adapted to provide a space between the spiral and the wall such that a cigarette may be supported on said spiral and cigarette butts may be placed in the ash tray between the spiral and the final coil.

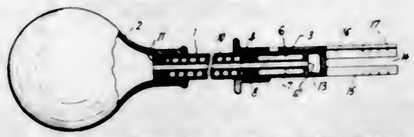
2,661,007
BARBER'S COMB
Frederick Bauer, Wausau, Wis.
Application May 5, 1952, Serial No. 286,125
2 Claims. (Cl. 132—18)

1. A comb comprising a back, main teeth extending from the back, a plurality of auxiliary teeth extending outwardly from one of the respective sides of each main tooth, said auxiliary teeth being graduated in length from the outer ends of the main teeth to the inner ends thereof,



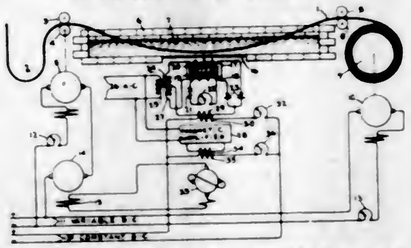
and said auxiliary teeth being curved towards the back of the comb.

2,661,008
HAIR TREATING DEVICE
Alexis Zachary, New York, N. Y.
Application November 14, 1950, Serial No. 195,667
4 Claims. (Cl. 132—33)



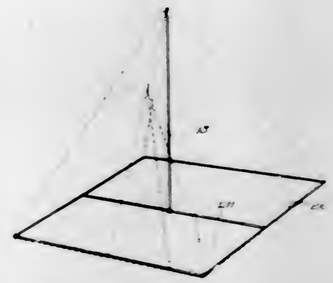
1. An instrument for treating the hair comprising a rod with a bore extending into it from one end, a bulb on said end, the opposite end being transversely slotted to form prongs, and a tube in the rod extending from the bulb to the inner end of the bore, the prongs having longitudinal ducts communicating with the tube and discharge ports in their outer faces, said instrument having a clip pivotally attached to said rod to cooperate with said prongs.

2,661,009
STRIP PICKLING APPARATUS AND SATURABLE REACTOR CONTROL THEREFOR
Ted Dunnegan, Jr., and Hugh M. Ogle, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application October 24, 1949, Serial No. 123,296
7 Claims. (Cl. 134—57)



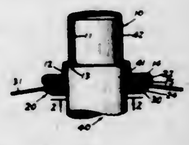
6. In apparatus for pickling steel strip, including a pickling tank, means to draw strip from the tank, and means including a variable-speed D.-C. motor to feed strip into the tank, an improved control system comprising a booster generator electrically connected in series with the D.-C. motor and having a field winding adapted for external excitation, a two-legged saturable magnetic element embedded in the floor of the pickling tank, a first winding around both legs of said element, connections, for energizing the first winding with an adjustable value of direct current, second and third windings around respective ones of the two legs, rectifiers connected in series with the second and third windings respectively, connections to apply two alternating voltages in phase opposition across the respective sets of series-connected rectifiers and windings, a magnetic amplifier having a signal winding connected in series with both sets of series-connected rectifiers and windings, the depth of immersion of the strip controlling the values of the currents flowing in said sets and the voltage supplied to said signal winding amplidyne having a field winding connected across the output of the magnetic amplifier and having its output connected to the field winding of said booster generator.

2,661,010
TENT
Frank M. Powers, River Forest, Ill., and Thomas C. Powers and David W. Powers, Philadelphia, Pa., assignors to Powers & Company, a partnership
Application October 29, 1948, Serial No. 57,332
14 Claims. (Cl. 135—3)



9. In a tent structure having a fabric tent, horizontal frame means having the outline of the adjacent part of the fabric tent and engaged therewith, and a support member having an end engaging a part of said frame means and horizontally slidable thereon for movement between an upright position in which it tensions said fabric tent to form a rigid structure, and a collapsed position, whereby said tent structure may be collapsed while maintaining the engagement between said fabric tent and said horizontal frame means.

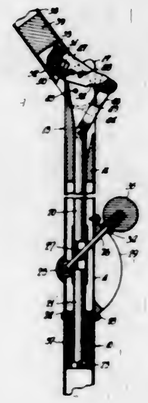
2,661,011
UMBRELLA CONSTRUCTION
David M. Cohen, New York, N. Y., assignor to George B. Cohen, Long Beach, N. Y.
Application July 21, 1949, Serial No. 105,927
8 Claims. (Cl. 135—36)



1. An umbrella structure comprising a hollow ferrule of rigid material adapted to receive the shank of the umbrella and having an integral outwardly projecting flange at its lower end, a grommet member having an outwardly projecting flange at its upper end abutting and affixed to the ferrule flange, and a washer having the fabric of the umbrella folded around it with the fabric on the upper side of the washer in contact with the grommet flange, said grommet member

having an outwardly extending lower portion pressed into permanent engagement with the fabric on the under side of the washer.

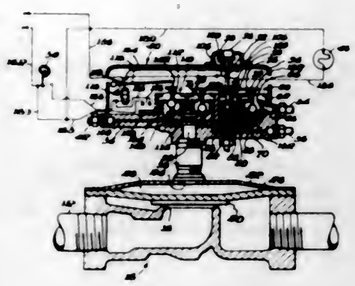
2,661,012
TILTABLE UMBRELLA
Vincent Militano, Levittown, N. Y., assignor to The Finkel Umbrella Frame Company, Inc., New York, N. Y., a corporation of New York
Application November 14, 1950, Serial No. 195,635
7 Claims. (Cl. 135—46)



1. In a tiltable umbrella, in combination, a hollow lower pole, a vertically reciprocable actuating shaft disposed within said hollow pole, a member having a portion disposed within said hollow pole, pivoted thereto, connected to said shaft and having another portion extending exteriorly of said hollow pole and arranged to be actuated about said pivot to reciprocate said shaft, an upper pole pivoted to said lower pole, and pivoted links connecting the upper end of said shaft to said upper pole, the connection between said links and the upper pole being disposed above said pivotal connection between the upper and lower poles.

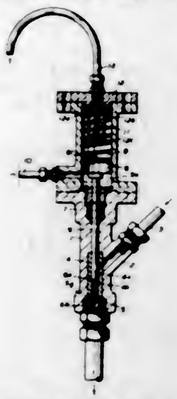
2,661,013
DIAPHRAGM VALVE CONTROL
Samuel G. Eskin, Greensburg, Pa., and Robert C. Main, Boston, Mass., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application February 4, 1950, Serial No. 142,374
10 Claims. (Cl. 137—66)

1. In combination with a diaphragm valve having a fluid pressure chamber with a wall movable in response to pressure variations and valve means operatively connected to the wall, a casing having an opening adapted for communication with said chamber, said casing having a pair of passages therein one of which communicates with said opening for exhaust of fluid from said chamber, said other passage providing an inlet and outlet for fluid under pressure in said casing, a first control valve means biased to a position for closing said outlet, second control valve means biased to a position for closing said one passage, third control valve means biased to a position for likewise closing said one passage, said casing having a third passage therein connecting said first control valve means in said biased position thereof with said opening for supply of fluid to said chamber, said first control valve means being effective for closing said third passage in the unbiased position thereof operating means movable



to one position for overcoming the bias of said first and second control valve means for opening said outlet and concomitantly closing said third passage, and second operating means operable for overcoming the bias of said third control valve and opening said one passage for exhaust of fluid from said chamber.

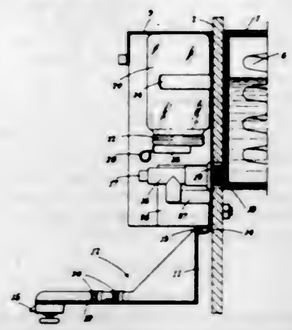
2,661,014
AUTOMATIC BLOW-DOWN VALVE
William Brankley Hollingbery, Whitley Bay, England, assignor to Houseman & Thompson Limited
Application May 23, 1950, Serial No. 163,627
2 Claims. (Cl. 137—244)



1. A blow-down valve of the kind referred to comprising a casing, a fluid operated valve in a bore in said casing, said valve being adapted to control a valve discharge orifice in said casing, a steam cylinder above said valve casing, the lower portion of said cylinder having a pressure fluid port therein, a piston in said cylinder, a sludge inlet in said casing, said sludge inlet being arranged at an acute angle to and communicating with the casing bore so as to be inclined in the direction of flow of sludge-laden water, said valve comprising a valve rod whose upper end is connected to said piston, a valve face at the lower end of said valve rod, a valve seating in said valve casing bore on which said valve face is adapted to seat, a spring adapted normally to

maintain said valve face against said seating, said seating being separate from said valve discharge orifice, a tapering clearing needle projecting axially from said valve face, a constriction member having formed therein a central converging constriction orifice in coaxial alinement with said seating, said clearing needle being adapted to project through said converging constriction orifice when said valve is closed, the distance of said valve seating from said sludge inlet port being such that said port is not fully uncovered until said valve is fully opened, said valve casing being coaxially recessed at its lower end, and said seating comprising a coaxially bored and ported insert having a close fit in said recess to form a continuation of the bore of said casing, the port of said insert forming a coaxial continuation of said sludge inlet port, said constriction member consisting of a removable disc positioned at the lower end of the insert, the orifice of said disc being calibrated to give the required flow, a cover plate at the head of said cylinder, an axially bored boss on said cover plate comprising an air vent communicating with said steam cylinder, a valve seating at the lower end of the bore of said boss and a valve member rigid with said piston, said valve member being adapted to seat against said vent valve seating when said piston is at the upper limit of its stroke.

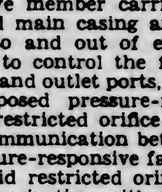
2,661,015
HOT BEVERAGE UNIT FOR MOTOR VEHICLES
William R. Allred, John C. Allred, and Albert R. Allred, Madera, Calif.
Application May 8, 1950, Serial No. 160,644
1 Claim. (Cl. 137—353)



In a motor vehicle having a fire wall separating the engine and driver's compartment of the vehicle, the combination of a hot water tank supported against the engine side of the fire wall, a cabinet for drink making supplies secured against the driver's side of the fire wall directly opposite the tank, and a spigot projecting from the tank through the fire wall and into the cabinet.

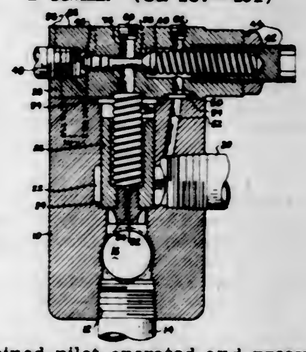
2,661,016
RELIEF VALVE OF THE POPPET TYPE
Earl H. Leffler, Dearborn, Mich., assignor to Consolidated Brass Company, Detroit, Mich., a corporation of Michigan
Application November 4, 1949, Serial No. 125,480
8 Claims. (Cl. 137—469)

1. A valve having a threaded end by which it is secured to a fitting, an enlarged body portion extending from the threaded end having spaced inwardly directed vanes the radial faces of which fall upon the surface of a cylinder and are provided with a thread on the portion remote from said threaded end, a valve seat provided at the base of the body portion, a valve disposed upon said seat and having a peripheral shoulder which



forms a poppet chamber with the valve seat and the body, a cap having an outer peripheral thread supported on the threads of the vanes, and means between said cap and valve for holding the latter on the seat with a predetermined pressure.

2,661,017
PILOT OPERATED VALVE
George M. Geiger, Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Mount Gilead, Ohio, a corporation of Delaware
Application January 27, 1949, Serial No. 73,126
1 Claim. (Cl. 137—491)



A combined pilot operated and pressure relief valve comprising a main valve casing formed with a cylindrical valve chamber terminating at one end in a shouldered valve seat and opening at its opposite end on an exterior surface of said main casing, an inlet port for said valve formed as a continuation of the valve seat end of said chamber, and an outlet port intersecting said valve chamber in spaced relation to said inlet port; a valve member carried in the valve chamber of said main casing and movable axially therein into and out of engagement with said valve seat to control the flow of fluid between said inlet and outlet ports, said valve member having opposed pressure-responsive faces thereon and a restricted orifice establishing restricted fluid communication between said faces, one of the pressure-responsive faces of said valve member and said restricted orifice being in direct fluid communication with the inlet port of said main casing; a pilot valve casing mounted on the exterior surface of said main valve casing in closing relation to the said opposite end of the valve chamber of said main valve casing, said pilot valve casing having a fluid passage therein disposed in axial alignment and communicating with the said opposite end of the valve chamber of said main valve casing, a valve bore intersecting said fluid passage, an exhaust outlet communicating with said valve bore in spaced relation to said fluid passage, and a fluid inlet connection formed at one end of said valve bore for connection with a source of fluid pressure; a fluid-pressure-responsive valve carried in

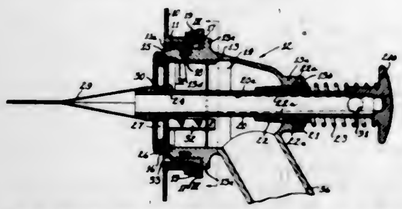
said valve bore and arranged to normally interrupt communication between said fluid passage and said exhaust outlet, but movable in response to fluid pressures introduced within said fluid inlet connection to open said valve bore and establish fluid communication between said fluid passage and said exhaust outlet; a pressure relief valve casing mounted on said pilot valve casing and formed with a fluid passage disposed in axial alignment and communicating with the fluid passage of said pilot valve casing, a valve chamber communicating with the fluid passage of said pressure relief valve, and an exhaust outlet communicating with the valve chamber of said relief valve casing in spaced relation to the fluid passage thereof; and a spring-pressed valve member arranged in the valve chamber of said relief valve casing between the fluid passage and exhaust outlet thereof to normally interrupt communication between the fluid passage and exhaust outlet of said relief valve casing, but being movable in response to a given high fluid pressure within the fluid passage of said relief valve casing to connect the fluid passage of said relief valve casing with the exhaust outlet thereof, movement of either of the valve members of said pilot valve casing and said pressure relief valve casing to an open position serving to decrease fluid pressures on the side of the valve member of said main valve casing opposite the fluid inlet thereof to permit fluid pressure within the fluid inlet of said main valve casing to move the valve member thereof to an unseated position and thereby connect the inlet port of said main valve casing with the outlet port thereof.

2,661,018

DRUM VALVE ASSEMBLY

Jacob Rush Snyder, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application April 18, 1950, Serial No. 156,547
6 Claims. (Cl. 137—588)



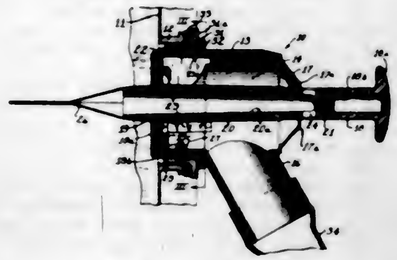
5. In a drum valve assembly, a valve body defining a fluid passageway, a valve seat in one end of said passageway, a stem-like actuator defining a generally tubular bore open at one end, a positioner carried on one end of said actuator and defining a radially extending support body with a plurality of spaced-apart axially extending guide fingers slidably cooperable with the walls of the fluid passageway to radially align the actuator generally along the axis of the passageway, an O-ring gasket carried by said positioner and having at least a portion thereof extending radially outwardly of the positioner in seating relationship on the valve seat, said O-ring together with said positioner and said actuator forming a leak-proof valve to control the flow of fluid through the passageway, a check valve on the open end of the actuator, and means between said actuator and said valve body to support said actuator for reciprocation, whereby said valve may be selectively moved away from the valve seat, said actuator defining an aperture establishing communication between the hollow tubular bore thereof and the atmosphere to permit venting air to pass from the atmosphere through said hollow tubular bore through the check valve.

2,661,019

AUTOMATIC VENTING DRUM CAP AND VALVE ASSEMBLY

Jacob Rush Snyder and Frank J. Schenkelberger, Cleveland, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application April 27, 1950, Serial No. 158,562
8 Claims. (Cl. 137—594)



1. In a molded plastic spigot structure, a body portion of generally cylindrical configuration having a passageway therethrough with an open terminal end defining a valve seat, a ring-like band in the open terminal end of the passageway to hold the body against unequal shrinkage, an annular recessed groove on the external peripheral surface of the body near the terminal end thereof to receive a snap-ring, an annular recessed groove on the peripheral portion of the body in spaced relationship to the snap-ring seating groove and separated therefrom by an annular deformable rib, the outer diameter of the annular deformable rib being slightly larger than the diameter of the generally cylindrical configuration of the body, a bushing ring snugly fitted on the body and arranged to sealingly engage the deformable rib, whereby deformation of the rib will displace a volume of material into the recessed groove and a snap-ring to retain the bushing ring on the body.

2,661,020

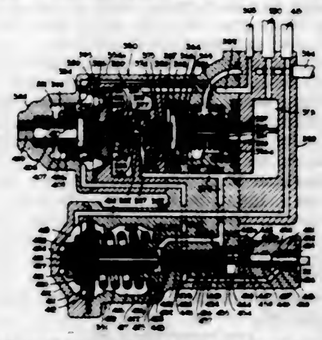
FLUID PRESSURE CONTROL APPARATUS FOR FREE PISTON MACHINES

Arthur J. Bent, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Original application July 22, 1947, Serial No. 762,771, now Patent No. 2,608,052, dated August 26, 1952. Divided and this application June 15, 1948, Serial No. 33,044
8 Claims. (Cl. 137—656)

6. In combination, valve means for selectively supplying fluid under pressure to and releasing fluid under pressure from a chamber, movable abutment means controlled by opposing pressures of fluid in a first chamber and in a second chamber which is adapted to be open to the first named chamber, and operative upon a preponderance in pressure in said first chamber over that in said second chamber to effect operation of said valve means to supply fluid under pressure to the first named chamber and upon a preponderance in pressure in said second chamber over that in said first chamber to effect operation of said valve means to release fluid under pressure from the

first named chamber, fluid pressure adjustable means and reciprocable means cooperable with



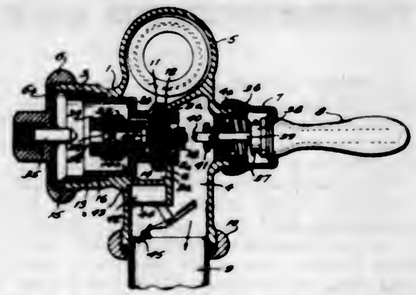
said fluid pressure adjustable means for controlling pressure of fluid in said first chamber.

2,661,021

FLUSHING VALVE

Uuno Laytsinen, Savonlinna, Finland

Application January 21, 1949, Serial No. 71,901
2 Claims. (Cl. 137—459)



1. In a flushing valve assembly including a valve casing, a horizontally movable main valve, and a vertical cover plate opposite said main valve, in combination, a manually operable pilot valve mounted on said main valve movably in horizontal direction between an open and a closed position; an elongated horizontally extending holding member secured at one end thereof to said pilot valve so as to move with the same, and having at the other end thereof a head portion defining a vertical shoulder; a tubular locking sleeve secured at one end thereof to said main valve slidably movably in vertical direction between a higher and a lower position, and in said higher position located coaxially with said holding member, said tubular locking sleeve projecting towards said holding member and having at the other end thereof an inwardly extending flange defining an inner shoulder located around said head of said holding member when said tubular locking sleeve is in said higher position and said pilot valve is in closed position, and located behind said shoulder on said holding member when said pilot valve is in open position whereby said tubular locking sleeve is permitted to drop by the force of gravity to said lower position so that said inner shoulder on said inner flange of the tubular locking member engages said inner shoulder on said holding member locking said holding member and retaining said pilot valve in open position; and a cylindrical release rod mounted on said cover plate coaxially with said tubular locking sleeve in higher position thereof and projecting with one end towards the same, said release rod having on said end a conical end portion adapted to engage the oppositely located edge of the interior of said tubular locking member in lower position thereof when said main valve and said tubular locking sleeve move toward said release rod so that said tubular locking sleeve, sliding upwardly on said conical end portion to said higher position thereof, is centered by said release rod whereby said tubular locking sleeve releases said holding member permitting return of said pilot valve.

2,661,022

FLUID CONTROL DEVICE

André Latour, Grenoble, France, assignor to Etablissements Merlin & Gerin, Grenoble, France

Application July 23, 1947, Serial No. 763,023
In France January 9, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires January 9, 1965
11 Claims. (Cl. 137—679)



1. Fluid control apparatus comprising, in combination, an enclosure adapted to contain a fluid under pressure; valve means operatively connected to and communicating with the interior of said enclosure for controlling the flow of fluid therefrom, said valve means including a valve member movable between a closed position holding the fluid in said enclosure and an open position permitting the fluid to flow from said enclosure through said valve means; pressure means operatively connected to said valve member for urging the same to said closed position thereof and for holding the same in said closed position against the action of the fluid pressure tending to move said valve member to the open position thereof; electromagnetic means located adjacent said valve member for moving the same from said closed to said open position thereof against the action of said pressure means when said electromagnetic means is energized; current-reducing means located in the circuit of said electromagnetic means for reducing the amount of current flowing through the latter; and impact increasing means for increasing the impact of a fluid in said enclosure against said valve member after the latter is moved from said closed position thereof.

2,661,023

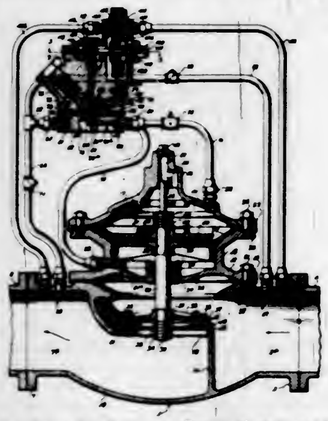
FLUID PRESSURE-OPERATED VALVE

Donald G. Griswold, El Monte, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif.

Original application May 29, 1943, Serial No. 489,007, now Patent No. 2,447,408, dated August 17, 1948. Divided and this application August 15, 1947, Serial No. 768,754
1 Claim. (Cl. 137—688)

A fluid pressure operated valve, comprising: a body having inlet and outlet chambers disposed in horizontal axial alignment, a bottom wall portion, an upright partition extending from said bottom wall portion and including a horizontal offset providing a seat for a closure member between said inlet and outlet chambers, and having a circular central opening above said seat; a generally spool-shaped intermediate section above said body, said spool-shaped section having

horizontal flanges at the opposite ends thereof and an integral transverse wall forming a closure for said opening in said body lying in a plane substantially common to one of said flanges; a cover above said spool-shaped section; a flexible diaphragm disposed between said cover and the other flange of said spool-shaped section cooperating with said cover to form an upper pressure chamber and cooperating with said spool-shaped section to form a lower pressure chamber in non-communicating relation with said upper pressure chamber; a valve stem slidably extending through said transverse wall; means carried by said transverse wall and slidably engaged by



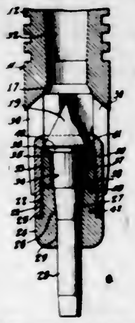
said valve stem to form a fluid-tight seal around said valve stem; a circular closure member carried by the lower end of said valve stem, said closure member being slightly smaller than said central opening and having a path of movement from closed to open position of such extent as to be retractable into said central opening to minimize obstruction to flow and being engageable with said seat to shut off the flow between said inlet and outlet chambers when in its advanced position; means connecting the upper end of said valve stem with said diaphragm; and means for admitting operating fluid under pressure into and for exhausting spent operating fluid from said pressure chambers.

2,661,024

PLUNGER CONSTRUCTION

Donald G. Knox, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application August 8, 1947, Serial No. 767,401
6 Claims. (Cl. 137—692)



1. A swab plunger comprising a tubular body member having a longitudinal passageway extending therethrough, said body member being provided with lateral ports near the lower end thereof, valve means for controlling flow through said passageway and ports, said valve means including a valve seat on the body member above the ports, said means also including a valve having a head and a depending stem, guide means on the tubular body member below the ports slidably engaging the stem to guide the valve for longitudinal movement with respect to the body member, the valve head being adapted to close into contact with said seat, an annular permanent magnet fixed on the body member and encircling the stem at a location between the guide means and said ports, the magnet acting on the valve head to maintain the valve in open position, and cooperating stop means on the valve and body member limiting opening movement of the valve and preventing contact between the valve head and the magnet.

2,661,025

FLEXIBLE HOSE

George A. Brace, Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application April 3, 1948, Serial No. 18,780
2 Claims. (Cl. 138—56)



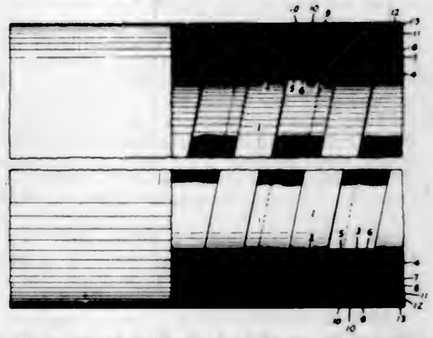
2. A flexible hose adapted to be cut into short lengths having a flexible mid-section and relatively stiff ends comprising, a flexible wall of non-metallic material and a helically wound metallic reinforcing wire sealed within said walls, the material of said walls closely embracing said wire for portions of the length of the hose to form said relatively stiff ends and being spaced from said wire between said relatively stiff ends so as to have limited movement relative to said wire at said flexible sections whereby said hose may be severed at said relatively stiff ends to form a plurality of flexible hose lengths having relatively stiff ends and a flexible intermediate section.

2,661,026

OIL HOSE

Ernest Schulthess, South Orange, N. J.

Application November 9, 1948, Serial No. 59,112
2 Claims. (Cl. 138—59)



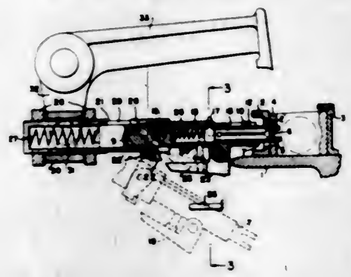
1. In a construction of oil hose, a helical liner of wire having its convolutions spaced from one another, said wire being segment-shaped in cross-section and being provided on its outer curved surface with a longitudinally extending, outwardly projecting bead extending transversely of the length of the hose in helical fashion, a plurality of plies of fabric hose material engaging the outer surfaces of said liner and covering said liner and occupying the spaces between the convolutions of the liner so as to form with said liner the inner wall of the hose, said liner being seated in a helically-shaped groove formed in said fabric hose material, and the bead on said liner being seated in a correspondingly-shaped reduced portion of such groove located outwardly of the body of the liner and anchoring said liner against displacement relative to said fabric hose material during bending of the hose while in use, a layer of rubber overlying said fabric hose material and forming a continuous coating of rubber on the hose, a helix of wire overlying and engaging said layer of rubber and having its convolutions positioned intermediate the convolutions of said liner wire, and a second layer of rubber overlying said first rubber layer and said helix of wire, said second layer of rubber forming a continuous coating of rubber on the hose and engaging with said first layer of rubber except where separated by said helix of wire so that the latter is wholly embedded in rubber material, said helix of wire being of substantially oval cross-section and being provided on its inner and outer surfaces with longitudinally extending channels extending transversely of the length of the hose in helical fashion, the material of the rubber layers underlying and overlying said helix of wire being seated in said channels to anchor said helix of wire between said rubber layers and to interlock the same together.

2,661,027

SHUTTLE FEELER WITH WEFT CUTTER FOR REPLENISHMENT LOOMS

Vladislav Divišek, Brno, Czechoslovakia, assignor to Prototypa narodni podnik, Brno, Czechoslovakia, a corporation of Czechoslovakia

Application March 20, 1951, Serial No. 216,614
Claims priority, application Czechoslovakia March 23, 1950
5 Claims. (Cl. 139—267)



1. A device for the control of the shuttle position and for cutting the weft thread in bobbin changing automatic looms having a lay, a shuttle reciprocable thereon and a transfer hammer, said device comprising in combination a push or starter rod actuating said transfer hammer; a shuttle feeler telescopically mounted in said starter rod; a weft cutter telescopically mounted in the shuttle feeler at the operating end thereof; actuating means for said weft cutter; a pawl oscillatingly mounted on the shuttle feeler and actuated by the lay; said pawl operating said actuating means for said weft cutter and engaging said starter rod when the shuttle feeler enters the shuttle; and locking means cooperating with said pawl to prevent the same from operating said actuating means for said weft cutter and from engaging the starter rod when the shuttle feeler is prevented from entering the shuttle.

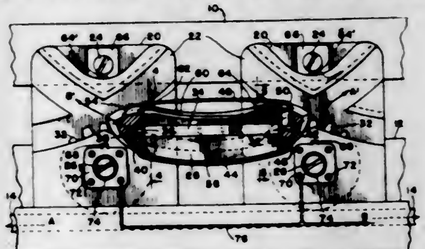
2,661,028

WEFT STOP MOTION FOR NARROW FABRIC LOOMS

Melvin Siegel, East Paterson, N. J.

Application December 3, 1952, Serial No. 323,859
2 Claims. (Cl. 139—371)

1. A stop mechanism for looms comprising in combination with a shuttle reciprocally movable upon a loom, said mechanism having a metal quill having a weft yarn thereon, a metallic shaft upon the shuttle to carry the quill, a metallic trigger finger pivotally secured at one end to the shuttle and having its free end engageable against the weft yarn upon the quill and adapted to move inwardly against the outer surface of the weft yarn and make contact with the metallic quill when the weft yarn is completely unwound, a spring member secured at one end to the shuttle and having its free end in slidable engagement with the metallic trigger to urge same inwardly, a metallic bushing to receive the pivotal end of the metallic trigger and having electrical connection therewith, and a second metallic bushing adapted to receive one end of the quill holding metallic shaft and having electrical connection therewith; a bow wire contact



member extending from the said shuttle and having electrical contact with the quill shaft bushing and quill shaft, a second bow wire contact member extending from the said shuttle and having electrical contact with the metallic trigger bushing and trigger, a pair of resilient spring members secured to and grounded to the loom frame, a second pair of resilient spring members secured to the loom frame and insulated therefrom, adapted to contact the said bow wires on the shuttle as said shuttle reciprocates upon the shuttle block and close an electrical circuit when the weft thread upon the quill is completely unwound to allow the metallic trigger to contact the quill and the quill shaft and direct an electrical current through lines to a solenoid to open a switch in a power line to a motor drive and stop the loom.

2,661,029

METHOD OF MAKING A FINE WIRE MESH

Edward J. Walsh, Tenafly, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 20, 1948, Serial No. 55,579
3 Claims. (Cl. 140—71.5)



1. The method of manufacturing a fine wire mesh which comprises winding a series of coplanar turns of fine wire on a gold-plated supporting member, winding a second coplanar series of turns of fine wire on said support transverse and in contact with said first series of turns, placing said support member and said windings

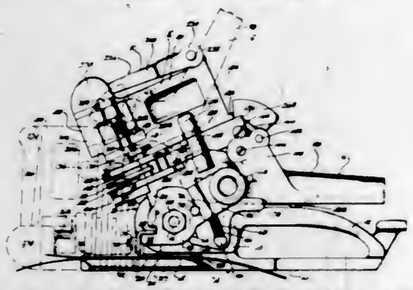
in a non-oxidizing atmosphere, subjecting said windings and said support to a temperature sufficient to fuse said gold and permit it to flow along and coat said windings, and cooling said windings whereby the coating of one winding adheres to the coating of the other winding bonding the intersecting wires together.

2,661,030

PACKAGE BINDING TOOL

George A. Crosby, Park Ridge, and Arvid I. Ericsson, Chicago, Ill., assignors to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware

Application December 15, 1948, Serial No. 65,448
11 Claims. (Cl. 140—93.4)



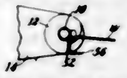
11. In a package binding tool having a main frame for resting on the package to be bound pivotally supporting a binder tensioning mechanism and an auxiliary frame carrying a sealing mechanism of the type including pivoted sealing jaws for joining together the overlapping ends of a package binder and movable with the auxiliary frame from a position removed from the binder to a joint forming position, a single operating handle for moving the auxiliary frame and the sealing mechanism to joint-forming position and for actuating the sealing mechanism to engage the seal over the overlapping ends of the binder and the jaws to deform the same for forming a joint therein, and a magazine on the auxiliary frame for the storage of seals used in joining the ends of the binder and having an outlet adjacent the sealing mechanism jaws through which seals may be transferred from the magazine to the jaws, the improvement which comprises an ejector blade at the magazine outlet adapted to engage the outermost seal in the magazine and movable in a first direction to transfer the seal from the magazine to the sealing mechanism, a bell crank lever pivotally mounted on the magazine and having a first arm pivotally connected to said ejector blade, a spring acting between said lever and a fixed part of the magazine for biasing said lever in such direction as to move said ejector blade in the seal transferring direction, said lever having a second arm carrying an adjustable cam contacting member which may be adjusted to vary the throw of said lever, a cam engageable with said contacting member rotatably mounted on the magazine and connected to the operating handle for rotation in one direction, while the operating handle is closing the sealing mechanism jaws to form a joint in the overlapping ends of the binder, for moving said lever against the force of said biasing spring to move said ejector blade in a second direction to a position preparatory to transferring a seal from the magazine, said cam being formed to remain in engagement with said cam contacting member until the joint has been formed and return movement of the operating handle has been initiated and while in said engagement locking said ejector blade in said second position, and said cam also being formed so that when it is rotated in a second direction it releases said lever during retraction of the operating handle and before the sealing mechanism jaws have been separated sufficiently to receive the seal, whereby a seal is snapped into position in the sealing mechanism under the force of said biasing spring.

2,661,031

METHOD OF PREPARING BINDER WIRE FOR ATTACHMENT TO SHOES

Henry R. Levesque, Nashua, N. H., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application February 24, 1950, Serial No. 145,943
1 Claim. (Cl. 140—104)



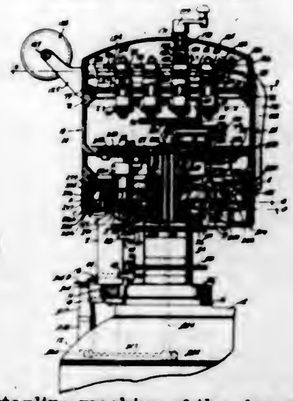
That improvement in methods of forming a loop adjacent the free end of a piece of wire extending from a reel which comprises the steps of bending the wire into a loop with the free end portion disposed on one side of the wire extending from the reel and projecting from the plane of the loop beyond the other side of the wire extending from the reel, and then moving the loop thus formed and the free end portion in an arcuate path about an axis spaced from the loop in a direction away from the wire extending from the reel, thereby moving the free end portion past the opposite side of and beyond the wire extending from the reel to bend the wire transversely around and in contact with the free end portion.

2,661,032

WIRE FEED FOR STAPLING MACHINES

Charles Z. Monroe, Detroit, Mich., assignor to The Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan

Original application December 17, 1946, Serial No. 716,761. Divided and this application April 21, 1949, Serial No. 88,780
7 Claims. (Cl. 140—125)



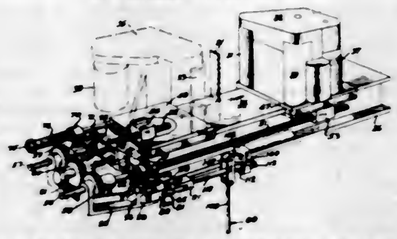
1. In a stapling machine of the class described, in combination, wire feeding mechanism comprising a series of pairs of feed rollers adapted to resiliently grip the wire between their peripheries, means for driving said pairs of rollers at the same speed, one roller on each pair being provided with an eccentric mounting, and means for urging said roller to swing toward wire engaging position, and for swinging the roller in the opposite direction to release the feeding tension, said means including crank arms on the respective eccentric mountings, a longitudinally shiftable rod, the ends of said crank arms being disposed adjacent said rod, longitudinally slidable abutments on said rod adapted to bear against said respective crank arms, fixed abuments on said rod, coil springs between said fixed and sliding abutments, and a handle for adjusting said rod longitudinally to adjust, release, and apply spring tension to said crank arms and thus to said wire gripping feed rollers.

2,661,033

ROLL SHIFTING MEANS FOR RESAW DEVICES

David M. Daniel, Berkeley, Calif., assignor to United Engineering Company, San Francisco, Calif., a partnership

Application March 5, 1952, Serial No. 274,940
11 Claims. (Cl. 143—4)



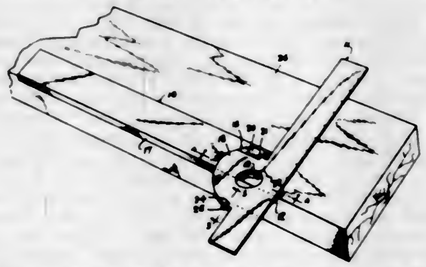
1. A selective control mechanism for the slidable guide members mounted on the frame of a resaw device, comprising a first lever pivoted between its ends and between said guide members to said frame and having means for connecting at all times one of its arms to one only of said slidable guide members for movement therewith; a second lever pivoted to said frame between its ends and between said guide members, and having means for connecting at all times its arm which is opposite to the connected arm of said first lever to the other of said slidable guide members for movement therewith; releasable means for physically and directly connecting said levers to work in unison; and releasable means for physically and directly securing one of said levers immovably to said frame while the other of said levers remains free to rotate about its point of connection to said frame.

2,661,034

ANGULARLY ADJUSTABLE WORK-SUPPORTED GUIDE FOR PORTABLE POWER SAWS

George A. MacDonald, San Dimas, Calif.

Application March 11, 1952, Serial No. 276,008
1 Claim. (Cl. 143—6)



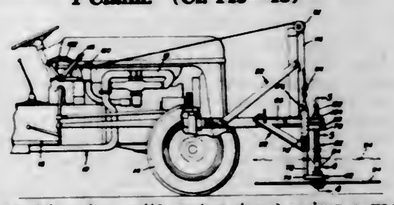
A portable power saw guide comprising a first blade in the form of a flat body of elongated rectangular shape having at one end an extension of partly circular shape disposed substantially tangential to one longitudinal edge and projecting laterally from the other longitudinal edge of said body and having a perpendicularly disposed flange extending along said other longitudinal edge thereof from the end of said body remote from said extension to said extension, said extension having a centrally disposed aperture therein and a concentric slot of substantially semi-circular shape adjacent the edge of the portion thereof extending laterally from said body, a second blade in the form of a flat body of elongated rectangular shape having an extension of substantially semicircular shape projecting from one longitudinal edge thereof intermediate the length of such edge but nearer one end than the other end of said second blade body, said second blade being disposed on the side of said first blade remote from said flange and said second blade extension having on one side thereof a circular flange concentric with the center of curvature of the edge of said second blade extension and rotatably received in the aperture in the first blade extension to connect said blades together for relative angular movement about the center of curvature of said extension, said first blade extension having an arcuate degree scale on the side thereof adjacent said second blade and said second blade extension having a cut away portion providing a pointer cooperating with said degree scale to indicate the angular relationship between the longitudinal edge of said first blade remote from said flange and the adjacent edge of said second blade, a screw extending from the extension on said second blade through the slot in the extension on said first blade, and a nut threaded onto said screw and effective to releasably secure said blades in selected positions of angular adjustment relative to each other, the flange on said first blade being disposable against the edge of a lumber work piece adjacent a portable power saw operator with said first blade disposed on the top surface of the work piece and with the longer portion of said second blade extending across the top surface of the work piece in a direction away from the saw operator to guide the saw across the work piece in a direction away from the saw operator.

2,661,035

VERTICALLY-ADJUSTABLE TREE-FELLING TRACTOR MOUNTED SAW

John T. Ryals, Unionville, Mo.

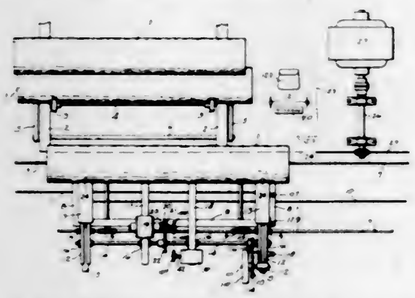
Application June 5, 1952, Serial No. 291,909
1 Claim. (Cl. 143—43)



In combination with a tractor having a motor, a driver's seat and a front power take-off, a saw attachment, said saw attachment comprising a supporting frame removably secured to the front of said tractor, aligned horizontal bearings carried by said supporting frame, a drive shaft extending longitudinally of said tractor and journalled in said bearings, a rear end of said drive shaft being coupled to the front power take-off of said motor, a saw blade support selectively positioned at either side of said supporting frame, said saw blade support including a vertically extending tubular member having slidably disposed therein for vertical adjustment, a supporting shaft, a first saw blade shaft receiving support carried by a lower end of said supporting shaft

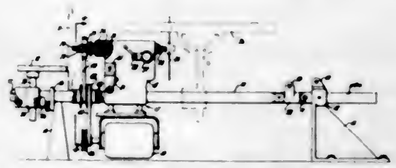
for vertical adjustment therewith, a second saw blade shaft receiving support fixedly carried by said tubular member in vertical alignment with said first saw blade receiving support, a driven pulley rotatably carried by said second saw blade shaft receiving support, drive means connecting said drive pulley and said driven pulley, a saw blade shaft rotatably carried by said first and second saw blade shaft receiving supports, said saw blade shaft being restrained in said first saw blade receiving support for vertical movement therewith, said saw blade shaft being slidable through said second saw blade shaft receiving support and said driven pulley and drivingly connected to said driven pulley for rotation therewith, a flexible connecting member having one end connected to an upper end of said supporting shaft and extending vertically therefrom, the opposite end of said flexible member being connected to adjusting means carried by said tractor adjacent said driver's seat.

2,661,036
REMOTE CONTROL OF SAWMILL SETWORKS BY ELECTROMECHANICAL MEANS
Theodore H. Balch, Salem, and Ray F. Van De Mark, West Salem, Oreg., assignors, by direct and mesne assignments, to Sel-Set Company, West Salem, Oreg., a corporation of Oregon
Application February 12, 1951, Serial No. 210,582
23 Claims. (Cl. 143—120)



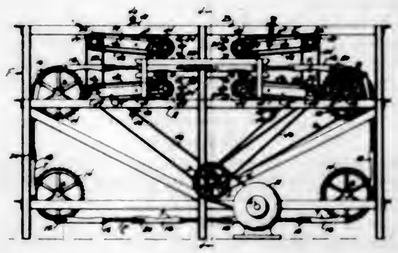
8. A sawmill setworks comprising, in combination with a set shaft powered by an electrically actuated motor, and an electrical supply for actuating the motor; a pair of supports, one of the supports being mounted for rotation and having a normal rest position, electrically actuated coupling means releasably interconnecting the rotatable support and the set shaft, a plurality of first switch means mounted upon one of the supports and arranged in the circuit of the motor and coupling actuating means, switch-actuating means mounted upon the other support in angular displacement with each switch means when the rotatable support is in rest position, a plurality of control switch means each arranged in the circuit of the motor and coupling actuating means and one of the first switch means for activating the motor and coupling means simultaneously to rotate the set shaft and the rotatable support, the control switch means being adapted to be positioned remotely from the set shaft, each first switch means functioning upon engagement of the switch-actuating means to deactivate the motor and coupling means, whereby to stop the rotation of the set shaft after the latter has rotated through the angle selected by the control switch means, and means independent of the motor for returning the rotatable support to its rest position after rotation.

2,661,037
COMPOUND WOODWORKING TOOL WITH VARIABLE DRIVE
Leonard McGihon, San Leandro, Calif., assignor to King Sales & Engineering Co., San Francisco, Calif., a corporation of California, as trustee
Application November 29, 1948, Serial No. 62,489
2 Claims. (Cl. 144—1)



1. A combination tool comprising a pair of parallel support rods, support members adjacent the respective ends of said rods, a tool unit slidably mounted on said rods comprising a spindle assembly above said rods, a motor below said rods and a variable drive connection therebetween; said connection including a single pulley at said spindle assembly, a single pulley at said motor, a pair of variable diameter pulley units, respective belts connecting said units respectively to said respective single pulleys, said pair of variable diameter pulley units being axially aligned and disposed between said support rods, and means for mounting said pulley units comprising a pivotal support means on one of said support rods and an adjustable connection to the other of said support rods.

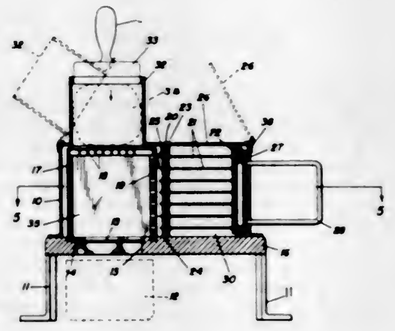
2,661,038
MACHINE FOR MAKING HAMMER HANDLES
Perry L. Goins, Salem, Va.
Application February 21, 1949, Serial No. 77,663
3 Claims. (Cl. 144—144)



1. In a rotary cutter of the swinging frame type the combination with a supporting frame having a pair of laterally spaced and elevated shaper frames, a power shaft journalled in said supporting frame transversely thereof adjacent the bottom thereof, upper and lower operating shafts journalled parallel to said power shaft in each shaper frame adjacent the top thereof, drive means connecting the power shaft to said lower operating shafts, and said lower operating shafts to the corresponding one of said upper operating shafts, upper and lower cutter frames respectively pivotally mounted on each upper and lower operating shafts, a cutter shaft journalled in the free end of each upper and lower cutting frame, drive means between each shutter shaft and its respective operating shaft, a rotor cutter rigid with each cutter shaft and the upper and lower rotary cutters being in vertical spaced

alinement with each other, a pressure spring between each shaper frame and cutter frame for urging said cutters toward each other means limiting the approach of said cutters towards each other, means for feeding work between said upper and lower cutters and power transmission means operatively connected to said power shaft.

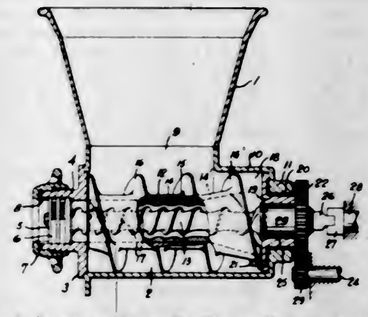
2,661,039
VEGETABLE SLICING AND DICING APPARATUS
Frank G. Davis and Marian M. Kennedy, Baltimore, Md.
Application June 13, 1951, Serial No. 231,386
6 Claims. (Cl. 146—78)



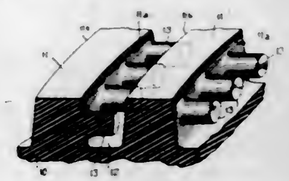
1. A vegetable cutter comprising in combination, a housing including a base, said housing having a chamber for the reception of cut pieces of the vegetable therein, a set of stationary knife means situated in the housing and arranged to cut said vegetable when same is forced against said means and passes the pieces into said chamber, a manually movable screen in the bottom wall of the housing to permit juices of the cut pieces to drip therethrough, another wall in said housing having a plurality of slots therein aligned with one another and disposed at predetermined spaced intervals from the bottom to the top of said housing, movable knives passable through said slots to engage and cut through said pieces in the chamber, means for guiding said knives through said housing into said chamber, means for manipulating said knives so they can be manually operated from the exterior of said housing, and spring means separate and independent from the manipulating means for returning the knives to an original starting position in the housing when they are not so operated.

2,661,040
MEAT GRINDER
Paul Güldenring, Remscheid, Germany
Application October 19, 1949, Serial No. 127,880
9 Claims. (Cl. 146—181)

1. A meat grinder, comprising, in combination with a casing, a hopper on top of said casing, and means connected to one side of said casing and constituting a cutter chamber communicating with the interior of said casing, a worm located within the interior of said casing and having threads formed to convey meat and the like from a space adjacent said hopper to a section located within the interior of said casing opposite said cutter chamber, and another worm located within the first-mentioned worm and extending from said section to said cutter chamber and having threads formed to convey the meat from said section to said cutter chamber.



2,661,041
TREAD CONSTRUCTION FOR TIRE CASINGS
James A. Walsh, West Haven, Conn., assignor to The Armstrong Rubber Company, West Haven, Conn., a corporation of Connecticut
Application March 23, 1950, Serial No. 151,411
8 Claims. (Cl. 152—209)

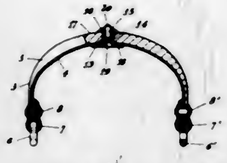


1. A tire having a tread portion comprising a plurality of laterally spaced circumferentially extending continuous ribs defining a groove comprising oppositely facing sidewalls and a base, a multiplicity of closely spaced circumferentially arranged protuberances projecting laterally from at least one of said sidewalls, said protuberances being spaced a substantial distance from both the base of the groove and the road-engaging surface of said ribs so that the spaces above and below said protuberances are the full groove width along the entire length of said groove, the width of each of said protuberances measured perpendicular to the base of said groove at its free end being equal to approximately one-half the depth of said groove and said protuberances extending across said groove a distance of at least two-thirds of the width of said groove, so that upon lateral deflection of said sidewalls toward each other the ends of the protuberances engage the opposite sidewall of the groove to hold the groove open at the road-engaging surface of the tread.

2,661,042
REMOVABLE ANTISKID DEVICE FOR VEHICLE WHEELS PROVIDED WITH RESILIENT TIRES
Harold Eisner, Prangins, Switzerland
Application March 11, 1950, Serial No. 149,054
Claims priority, application Switzerland June 8, 1949
1 Claim. (Cl. 152—222)

An anti-skid device for application to a vehicle wheel equipped with a rubber tire having a tread surface; comprising a non-metallic, pressure resilient flexible band having an under surface

adapted to extend on and across the tread surface of said tire, a metallic and rounded antiskid projection extending beyond the tread surface of said band, said projection including a shank having a central conical bore and passing through said band, an annular flange plate connected to said shank and riveted at said under surface of said band, said plate being substantially larger in diameter than that of said projection, and a pin consisting of sintered hard



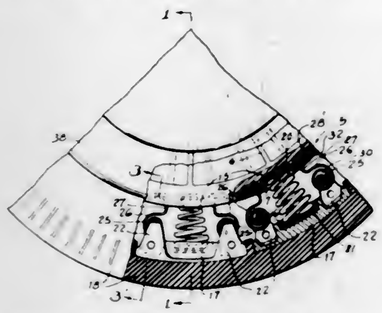
metal composition wedged into said central conical bore and extending beyond said projection a predetermined distance, said pin terminating at one end in a rounded outer frontal surface depending toward said projection, the remainder of said pin being in contact with the wall defining said bore and terminating with its other end short of the end of said bore adjacent said plate, said other end of said pin extending approximately half the height of said hollow shank of said projection.

2,661,043

VEHICLE WHEEL CONTAINING SHOCK ABSORBING SPRINGS

John K. Bables, Los Angeles, Calif.

Application June 18, 1951, Serial No. 232,200
14 Claims. (Cl. 152—247)



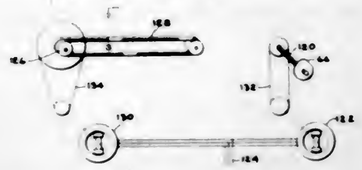
1. A wheel having a rim and a disk surrounded by said rim, a tire about said rim disposed in spaced concentric relation thereto, said tire having a side wall extending radially inward from one side edge of its tread portion and having its inner edge portion overlapping a side face of said rim of the wheel, there being a shoulder about the tire at the outer side of its tread portion from said side wall, a resilient sealing ring having an inner edge portion in an attached abutting relation to the last mentioned side face of said rim and having an outer edge portion overlapping and gripping said shoulder, a clamping plate removably and adjustably connected with the aforesaid disk of the wheel and having its marginal edge portion overlapping and gripping the aforesaid inner edge portion of the aforesaid side wall of the tire and firmly gripping the same, rigid shoes embedded in the tread portion of said tire and spaced from each other circumferentially of the tire and constituting sections of an outer rim, and springs mounted between said shoes and confronting portions of the wheel rim and yieldably resisting movement of the tire and the outer rim relative to the wheel rim.

2,661,044

LENGTH CONTROL FOR SLIDE FASTENER MACHINES

Otto G. Scheuermann, Westfield, N. J., assignor to Conmar Products Corporation, Newark, N. J., a corporation of New Jersey

Application May 19, 1948, Serial No. 28,036
10 Claims. (Cl. 153—1)



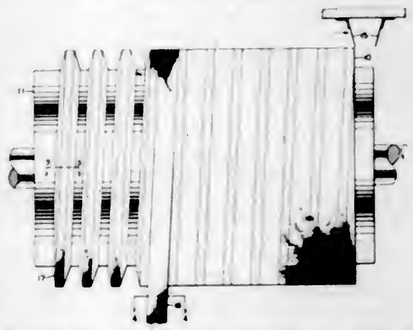
1. Control means for use with a scoop machine having means to intermittently feed a slide fastener tape, means to apply slide fastener elements thereto, and electrically controlled means for interrupting the attachment of slide fastener elements while affording continued feed of the tape, said control means including a member geared to the tape feed means and having a continuous opaque and a continuous transparent portion of substantial length, a lamp for directing a beam of light at said member, a light responsive cell on the opposite side of said member, and circuit means interconnecting said light responsive cell and the electrically controlled interrupting means of the scoop machine, whereby the lengths of the continuous opaque and continuous transparent portions in the direction of movement of said movable member correspond to and determine the length of the fastener stringers and the length of the gap spaces between stringers.

2,661,045

METHOD OF MAKING V-TYPE CONNECTOR BELTS

Walter E. Huber, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio

Application May 25, 1949, Serial No. 95,179
3 Claims. (Cl. 154—4)



1. A method of making connector type belts having trapezoidal cross sections which comprises superimposing upon a cylindrical mandrel a plurality of layers of rubberized fabric to form a first section, superimposing upon said fabric

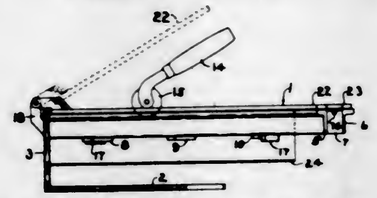
layers a neutral axis section comprising one or more layers of rubberized cord, superimposing upon said neutral axis section a plurality of layers of rubberized fabric of the same number and type as in the first section and thereby forming a cylindrical belt body consisting of inner and outer rubberized fabric sections between which is equidistantly positioned a neutral axis section comprising one or more layers of cord, severing said belt body to form two belt core members by forming a pair of cuts through said body at a converging angle to the mandrel along a helical path longitudinally of the belt body and axially of the mandrel, the pitch of said helix being equal to the sum of the top and bottom widths of each belt core formed thereby and the angle of said cuts conforming to the desired slope of the sides of the belt core, and thereby forming two elongated belt cores having the same trapezoidal cross section and the same structure and composition.

2,661,046

CUTTING AND SPLICING APPARATUS

William D. Dain, Bellevue, Mich., assignor to Econaway Manufacturing Company, Bellevue, Mich.

Application September 17, 1951, Serial No. 246,910
9 Claims. (Cl. 154—42)



1. A cutting and splicing apparatus for belts, which comprises a base member, an upright back portion rising from said base member, a substantially horizontal stationary belt-supporting means projecting forwardly from said back portion in elevated position with respect to the plane of said base member and providing for the passage of a belt under said belt-supporting means when the ends of said belt are placed on said supporting means, said belt-supporting means having a channel in its upper face, a knife guide member closely fitting and removably mounted in said channel and comprising an elongated bar having a flat top surface substantially flush with the upper face of the supporting means and having a knife-receiving groove in its upper side, a knife guide strip at each side of said groove with the groove extending downwardly into said bar below and between said guide strips, said knife guide member being at an angle with said upright back portion corresponding substantially with the crosswise angle at which the ends of said belt are to be spliced together, and clamping means adapted to normally rest on said belt-supporting means adjacent to and at opposite sides of said channel for holding said belt during the cutting and splicing of same.

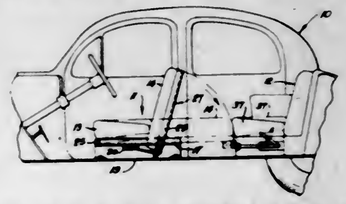
2,661,047

MOTOR VEHICLE SEAT STRUCTURE

Maurice C. Blanken, Staten Island, N. Y.

Application January 25, 1952, Serial No. 268,247
4 Claims. (Cl. 155—7)

4. An automotive vehicle seat adjustable to the sitting and prone positions, the vehicle having a floor and the seat having an inwardly and downwardly inclined bottom cushion in the sitting position; the seat comprising a seat frame and a back rest frame, the seat frame comprising an outer frame and an inner frame, the outer frame comprising at least two right angle side members, means for securing said members in substantially spaced parallel horizontal arrangement on opposite sides of the vehicle center line and above the floor with the horizontal webs of the side members inwardly directed and at the bottom of the vertical webs, the inner frame comprising at least two right angle members, means for pivotally securing one end of each of said members in the right angle members of the outer frame at the front with the horizontal webs superposed on the corresponding webs of the outer frame, a brace disposed intermediate the inner ends of the side members of the inner frame, the outer frame protruding rearwardly of the inner frame, aligned plates disposed on the outer surface of the vertical webs of the outer frame and protruding there below, the plates having aligned



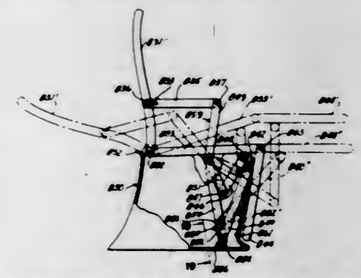
horizontal slots formed therein, a rod slidably disposed intermediate the slots, the horizontal webs of the outer frame having aligned portions removed adjacent the inner end of the inner frame, an inwardly directed pin disposed on the vertical web of each side member of the outer frame adjacent the removed portion, the back rest frame comprising at least two spaced right angle side members slidably disposed through the removed portions of the outer frame, each side member of the back rest having a longitudinal slot formed therein adjacent the bottom, the slot coacting with the inwardly directed pin and the bottom extremity of each side member protruding below the inner frame, a bottom member transversely disposed intermediate the bottom end extremities of the back rest side members, the bottom member having a protuberance formed on the bottom surface thereof coacting with the brace, and a link disposed intermediate the rod and the protuberance with the link pivotally connected to the protuberance.

2,661,048

RECLINING ARTICLE OF FURNITURE

Anton Lorenz, Buffalo, N. Y.

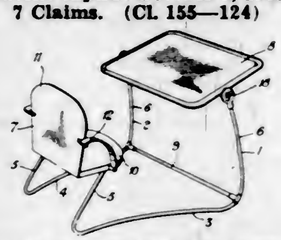
Application January 31, 1946, Serial No. 644,452
25 Claims. (Cl. 155—110)



1. A reclining article of furniture comprising: a support, a back-rest pivotally mounted on said

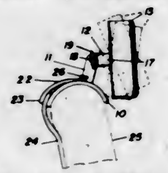
support, a seat, the rear portion of said seat being swingably mounted on said support, a controlling element, said controlling element being swingably mounted on said support at a point spaced from the pivotal connection of the back-rest with the support, said controlling element having three different engaging means being arranged at fixed distances from one another and said point at which said controlling element is swingably mounted on said support so as to form a quadrilateral, a connecting link, said connecting link being pivoted at its rear end to an intermediate point of said back-rest above the pivotal connection between the back-rest and the support and being pivoted at its front portion to one of said engaging means of said controlling element, a leg-rest swingably mounted on the front portion of said seat, first means positioned between a second one of said engaging means of said controlling element and said seat and in operative engagement with each to effect movement of said seat in coordination with said controlling element, and second means positioned between the third one of said engaging means of said controlling element and said leg-rest and in operative engagement with each to effect movement of said leg-rest in coordination with said controlling element.

2,661,049
COMBINATION CHAIR AND DESK
Harry Sebel, London, England
Application June 14, 1947, Serial No. 754,648
In Great Britain October 9, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 9, 1965
7 Claims. (Cl. 155—124)



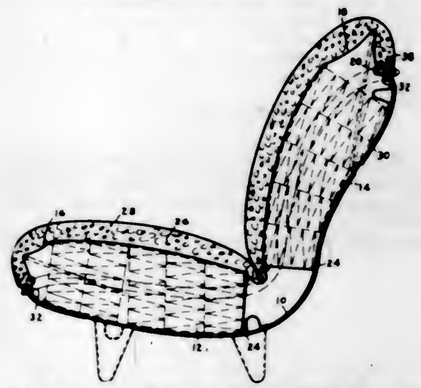
2. A combination chair and desk assembly comprising a pair of spaced tubular U-shaped members each of which terminates in an upstanding short and an upstanding long leg, a desk top connecting the ends of the long legs and a chair connecting the ends of the short legs, said desk top and chair constituting the only connections between said legs adjacent the ends thereof, said short legs being slanted forwardly at an acute angle to the plane of the chair seat to provide a resilient support therefor.

2,661,050
REMOVABLE HEADREST FOR VEHICLES
Robert E. L. Felter, Baltimore, Md.
Application June 11, 1952, Serial No. 292,809
5 Claims. (Cl. 155—174)



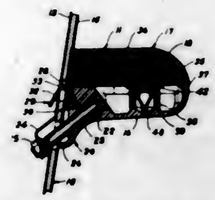
1. The combination of a head rest and a seat having a back edge, a base plate mounted on said back edge, said base plate having an ear projecting therefrom for removably attaching the base plate to said back edge, a bifurcated bracket mounted on said base plate, a forked bracket adjustably positioned on said bifurcated bracket, and a head rest mounted on said forked bracket and movable therewith.

2,661,051
TRIM FASTENING MEANS FOR VEHICLE SEATS
Charles E. McCormick, Dearborn, Mich.
Application December 20, 1948, Serial No. 66,178
8 Claims. (Cl. 155—180)



8. In a vehicle seat having a base with generally vertical and horizontal spring units of generally rectangular shape supported on said base so that the rear edge of the supporting surface of said horizontal spring unit extends transversely of the seat and is spaced from the lower edge of the supporting surface of the vertical spring unit, the combination of a trim cover extending over the supporting surfaces of both of said spring units, the adjacent edges of said supporting surfaces at the juncture between said spring units being spaced apart, strap means extending across and connecting said adjacent edges in said spaced relation, said trim cover having fastening means on the underside thereof extending along a line corresponding generally with the mid-line between the adjacent sides of said two spring units, and fastening means on said strap means adapted to detachably connect with said fastening means on the underside of said cover.

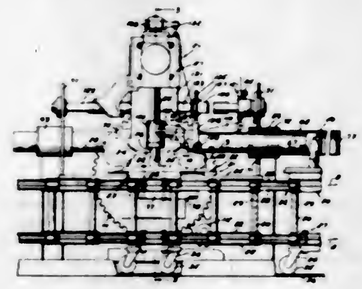
2,661,052
ARMREST FOR AUTOMOBILE DOORS
Harry F. Bushong, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application April 26, 1949, Serial No. 89,612
2 Claims. (Cl. 155—198)



1. An arm rest for a door of an automobile or a like vehicle, comprising a rigid base member

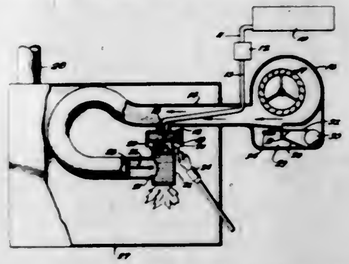
of substantially U-shaped plan configuration in which the leg portions thereof are adapted for mounting engagement with said door and are characterized by a recess extending inwardly of one surface thereof, each leg portion of said member being provided with an opening extending angularly from said recess therein, bolt means insertable in each opening of said leg portions for securing said base member to one side of a door panel so that the ends of said leg portions are adapted to lie in abutting engagement with said panel, said bolt means threadingly engaging holding nut means adapted to be mounted on the opposite side of said door panel, additional means for holding said base member to said door panel comprising clip means carried by said base member and adapted to have engagement with said panel, a cover member mounted over said base to encase and cover over said recesses and fastening bolt means, and snap-in fastener means depending from the underside of said cover and adapted to have resilient snap-in engagement with said base for detachably securing said cover thereto.

2,661,053
AUTOMATICALLY ADJUSTING POWER-OPERATED TIRE AND RIM ASSEMBLING APPARATUS
Edward Mullen, Detroit, Mich., assignor to Mechanical Handling Systems, Inc., Detroit, Mich., a corporation of Michigan
Application March 28, 1951, Serial No. 217,936
23 Claims. (Cl. 157—1.1)



1. Apparatus for assembling tires on wheel rims, comprising conveyor means movable along a predetermined path of travel, a rest station at one side of the conveyor means, a plurality of supports carried by the conveyor means in spaced relationship in the direction of movement of the conveyor means and successively registerable with the rest station, means for locating a wheel rim and tire in superimposed relation on each support, an assembly device supported at the rest station and having a part rotatably engageable with the tire on the support registering with the rest station, means for moving the assembly device in the direction of advancement of the conveyor means at substantially the same rate as the conveyor means and in timed relation to movement of a support into registration with the rest station, means for rotating the tire engaging part during movement of the device in the direction of advancement of the conveyor means to force the tire on the wheel rim, and means operating in timed relation to rotation of the tire engaging part for returning the device to the rest station.

2,661,054
APPARATUS FOR VAPORIZATION AND COMBUSTION OF HYDROCARBON DISTILLATES
Edwin C. Hyatt, Luther L. Lyon, Jr., and Willis R. Swanson, Wichita, Kans., assignors to The Coleman Company, Inc., Wichita, Kans., a corporation of Kansas
Application June 26, 1948, Serial No. 35,318
1 Claim. (Cl. 158—64)

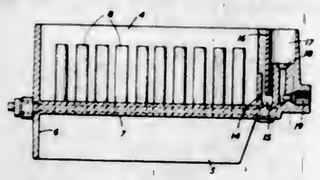


In an apparatus for burning a combustible mixture containing air and fuel oil vapor, the combination comprising a conduit having an air inlet at one end and a combustible mixture outlet at the other end, said conduit having a generally horizontal portion adjoining said air inlet and a gooseneck portion between said horizontal portion and said combustible mixture outlet, blower means for supplying said air to said conduit inlet under pressure, an oil burner secured to the outlet end of said conduit at a spaced distance beneath said horizontal conduit portion, a casing providing a vaporizing chamber located between said horizontal conduit portion and said burner, said casing having a bottom portion adapted to be heated by said burner and providing on its inside a vaporizing surface in the bottom of said chamber, said chamber communicating with the bottom of said horizontal conduit portion, a pipe for feeding liquid fuel oil onto said vaporizing surface, said pipe extending downwardly into said horizontal conduit portion at a point spaced from said vaporizing chamber in the direction of said blower means, sloping downwardly within said conduit in the path of the air discharge from said blower means to a point adjacent said vaporizing chamber, and terminating in a downwardly-extending discharge end above said vaporizing surface, and a casing providing an overflow chamber communicating with the bottom of said horizontal conduit portion at a point spaced from said vaporizing chamber in the direction of said blower means, the bottom of the upper portion of said conduit gooseneck being elevated above the bottom of said horizontal conduit portion so that oil overflowing from said vaporizing chamber will flow in the direction of said blower means and into said overflow chamber.

2,661,055
FILM TYPE LIQUID FUEL BURNER
George Kopp, Rugby, England
Application March 16, 1950, Serial No. 150,055
5 Claims. (Cl. 158—93)

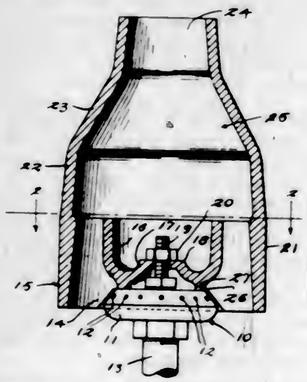
1. A liquid fuel burner comprising a vessel in the form of a tray having a water inlet, means for supplying cold water through said inlet to provide a pool of water in the tray, means for supplying oil to said tray to form a film floating on said pool of water, means for supplying air for combustion substantially over the entire exposed area of said film of oil, a baffle in said tray

remote from the water inlet for dividing the tray into combustion and overflow chambers, and a weir located adjacent to said baffle, said weir and said baffle being arranged for flow of excess water from said pool over said weir and under said baffle to said overflow chamber, and means for discharging said excess water from the overflow chamber.



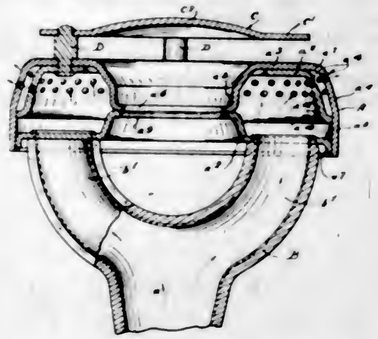
3. The combination, with a burner of the kind in which a film of liquid fuel to be burned is floated on a body of heavier liquid, of means for feeding fuel to the burner, means for feeding said heavier liquid to the burner, and a safety device forming a part of said feeding means, said device comprising a float movable in response to fluctuations in the level of said heavier liquid in the burner, a first control valve for controlling the fuel supply and a second control valve for controlling the supply of said heavier liquid, said control valves being actuated in response to movement of said float, said first control valve being moved to a first position substantially cutting off the supply of fuel upon downward movement of the float in response to a lowering of the level of said heavier liquid in the burner.

2,661,056
GAS BURNER WITH MULTIPLE MIXER AND SINGLE COMBUSTION CHAMBER
Oscar C. Kuehne, San Antonio, Tex.
Application June 29, 1951, Serial No. 234,286
1 Claim. (Cl. 158—99)



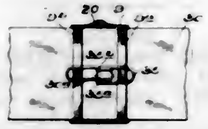
A burner comprising an annular burner head having a centrally disposed recess on the under side thereof, said recess being provided with a downwardly diverging wall, a shoulder forming an annular seat about said recess intermediate the top and bottom thereof, a fuel nozzle having an upwardly converging side wall provided with spaced fuel outlets and a top wall upon which said shoulder is adapted to seat whereby the lower portion of the diverging side wall of said recess is juxtaposed with the converging side wall of said nozzle, said head being provided with a plurality of circumferentially spaced, upwardly tapered, axially disposed bores extending therethrough, each bore having an outwardly flared lower portion communicating with said recess adjacent one of said fuel outlets whereby fuel is emitted from each of said outlets into one of said bores, the latter forming a mixing chamber, an auxiliary mixing chamber formed integrally with said burner head and extending beyond said fuel nozzle, said mixing chamber being comprised of a frusto-conical extension of the outer wall of said burner head forming inclined flame striking surfaces for creating flame turbulence, and a nozzle converging at a lesser angle than said auxiliary mixing chamber formed at the extremity of said frusto-conical mixing chamber for directional guidance of the flames from said burner in alignment with said burner head in turbulent condition.

2,661,057
GAS BURNER HEAD AND SECONDARY AIR BAFFLE
Marc Resek, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application October 6, 1949, Serial No. 119,975
2 Claims. (Cl. 158—116)



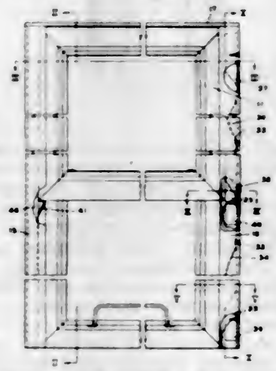
1. A gas burner comprising an annular head providing a central air passage, said head being formed by two sheet metal elements, the first of said elements being of channel formation and including a top wall, a peripheral wall, and an inner wall, the second sheet metal element being formed to provide a substantially flat bottom wall having its outer edge connected to the lower edge of said peripheral wall and its inner edge joined to the lower edge of said inner wall, a sheet metal ring-like member nested in the first described element and having an annular flat portion engaged with said top wall and a downwardly divergent peripheral wall substantially parallel to the surrounding portion of the first mentioned peripheral wall and in contact therewith adjacent the lower edge of the member, said peripheral walls being provided with gas emitting ports, the top wall and underlying portion of said ring-like member having registering apertures that are spaced apart about the head, fastening means extending through said apertures and serving to bind said member to the top wall, a deflector having a shallow dome-shaped central portion and arranged above and in substantially concentric relation to the head, said means having their upper ends connected to the deflector whereby the latter is supported above and in spaced relation to the head with its edge above the peripheral portion thereof, and means for supplying gas to the space enclosed by said sheet metal elements.

2,661,058
VENETIAN BLIND PARTS
Brooks Walker, Piedmont, Calif.
Original application December 31, 1947, Serial No. 794,851, now Patent No. 2,576,160, dated November 27, 1951. Divided and this application October 31, 1951, Serial No. 254,074
3 Claims. (Cl. 160—178)



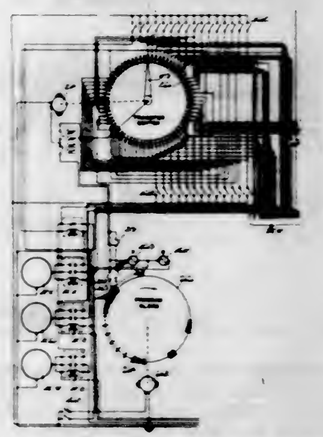
1. In a Venetian blind, a slat provided with a slot intermediate the opposite side edges thereof, a ladder tape including opposed side members and a pair of spaced parallel cross rungs, and a spring wire clip for removably securing said slat to said cross rungs including inwardly facing loop portions for extension about said rungs from the outer edges thereof, and said clip further including hooked ends intermediate said loop portions removably engageable with opposite edges of said slot.

2,661,059
SLIDING SCREEN ASSEMBLY
Marshall V. Neecker, Detroit, Mich.
Application October 4, 1951, Serial No. 249,643
8 Claims. (Cl. 160—181)



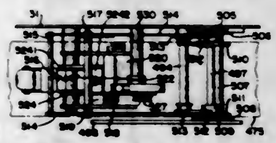
1. In screen sash mounting structure for double hung sash which are to be held against removal from the inside, the combination comprising: a pair of channel members in side by side and parallel relationship extending the full length of the window opening on one side of the window and another similar pair of channel members on the other side of said window opening, each of the channels provided thereby being of substantially U-shaped cross-section and said pairs of channels being positioned facing each other and substantially opposite each other; resilient means in the lower portion of the outer channel on one side of said window frame and a block member in the upper portion of said outer channel on said one side of said frame, said block member filling less than the entirety of the channel in which it is placed; a resilient member in the upper portion of the inside channel on one side of said window frame and a block member in the lower portion of said inside channel member on said one side of said frame; retractable means normally extending into one of said outer channels on one side and positioned for holding the upper sash in its normally closed position; and locking means affixable to the sill of the window frame into which said sash supporting structure is mounted and cooperable with said lower sash for holding same in its lowermost, and closed, position.

2,661,060
ELECTRICAL SYSTEM FOR CYCLIC CONTROLS
Stanley J. Otis, Madison, Wis.
Application June 21, 1951, Serial No. 232,793
16 Claims. (Cl. 161—1)



1. In an electrical system for control of a plurality of instrumentalities in accordance with a predetermined cycle, the combination of a program clock adapted to energize a signal circuit at predetermined time intervals, a transfer switch in said signal circuit having connection to one of said instrumentalities for energizing the same in response to energization of the signal circuit by said clock and means including a limit switch connected with the transfer switch and operative in response to each energization of the signal circuit for shifting connection of said transfer switch to the next instrumentality in the cycle for subsequent energization thereof in response to the next energization of the signal circuit.

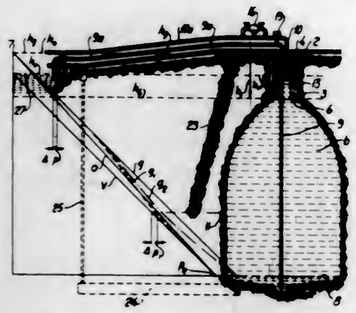
2,661,061
WEB FEEDING MECHANISM FOR CASH REGISTERS AND THE LIKE
Frank R. Werner, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application August 25, 1948, Serial No. 46,165
10 Claims. (Cl. 164—84.5)



1. In a web feed mechanism for a machine of the class described, the combination of feed rollers, tension rollers coacting with the web and the feed rollers adjacent the edges of the web, a separate support for each tension roller, an independently operable means connected to each tension roller support to move the respective tension rollers into coacting positions, a rod loosely

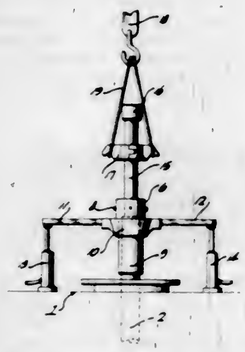
connecting the independently operable means, and a single spring, one end thereof being connected to the rod and the other end thereof being connected to a support therefor, said spring being biased to actuate the said means.

2,661,062
CONTAINER FOR STORING OIL AND LIKE FLUIDS
Harald Edholm, Solsidan, Saltsjobaden, Sweden
Application June 26, 1950, Serial No. 170,333
Claims priority, application Sweden June 28, 1949
14 Claims. (Cl. 166—1)



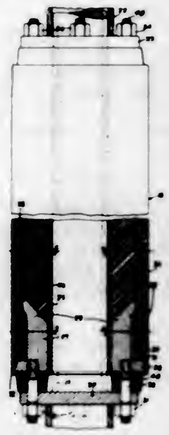
1. An underground container for storing water-immiscible fluids having specific gravities less than that of water comprising a cavity in the earth having pervious walls exposed to external subsoil water and having a water layer in the bottom thereof, means for varying the level of said water layer, said means providing a water column substantially isolated from the stored fluid and in communication with said water layer beneath the stored fluid, and means for maintaining the pressure exerted by the stored fluid at any point on the pervious wall on the container at a pressure less than that exerted by the subsoil water at the same point.

2,661,063
METHOD AND MEANS OF PULLING PIPE FROM A WELL
Cecil R. Owens, Long Beach, Calif.
Application July 21, 1951, Serial No. 237,874
6 Claims. (Cl. 166—1)



2. A means to remove pipe from a well, comprising a collar fixedly mounted on the top of the pipe, a sleeve encircling the collar, shear pins extending through the collar and into the sleeve, means engaging and supporting the sleeve to exert an upward pull thereon, said pins being sheared at a predetermined stress thereon to permit said pipe to retract, and means adapted to engage said pipe to support said pipe independently of said first named means after said pins are sheared and the pipe is retracted.

2,661,064
OIL WELL PACKER
Joseph Rockoff, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio
Application November 1, 1946, Serial No. 707,087
15 Claims. (Cl. 166—10)



1. In an oil well packer a packer sleeve comprising an annular inner rubberized textile layer, an annular metal reinforcing ring member on each of the ends of said packer sleeve positioned over the ends of said inner textile layer, an annular bulk rubber layer between said metal reinforcing ring members co-axially arranged therewith and positioned over said inner textile layer, an outer annular rubberized textile layer extending over said bulk rubber layer and over said metal reinforcing ring members, and fastening means applied around said last-mentioned textile layer adjacent both ends of the sleeve and over said metal reinforcing ring members for securing said textile layer around said metal reinforcing ring members, all of said layers and members being integrally united.

2,661,065
PERFORATION CLEANING DEVICE
Carl J. McCoy, Orcutt, Calif.
Application May 24, 1948, Serial No. 28,786
7 Claims. (Cl. 166—18)

1. A device for cleaning perforate well casings comprising in combination: a body axially movable along a string of well tubing through a string of perforated casing sections; a collar secured to the body, said collar having a row of slots spaced around its periphery adjacent an end thereof and an aperture corresponding to each slot; springs mounted within the collar, each spring comprising a main portion having a central loop therein which projects through one of said apertures, and an end portion projecting outwardly through the corresponding slot in the collar for engaging the casing; and a continuous retainer wire member encircling the periphery of said collar



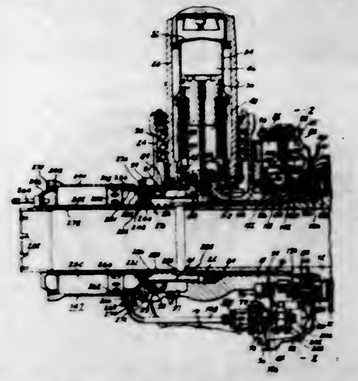
and threaded through said central loops, thereby securing said springs to said collar.

2,661,066
INCREASING PERMEABILITY OF SANDS IN OIL, GAS, AND INJECTION WELLS BY FORMING SOLIDS IN THE STRATA
Donald C. Bond, Northbrook, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application June 26, 1948, Serial No. 35,513
7 Claims. (Cl. 166—21)

1. A method of increasing the permeability of a consolidated oil-bearing geological stratum to facilitate the flow of oil therethrough which comprises forcing into said oil-bearing stratum a fluid substance convertible to a solid of increased volume, withdrawing sufficient heat from said fluid substance to cause solidification of said fluid substance within said stratum whereby the stratum is fractured, thereafter applying heat to said stratum to fluidize the solidified substance and subsequently flushing said fluidized substance from said stratum thereby accomplishing an increase in the permeability of that stratum.

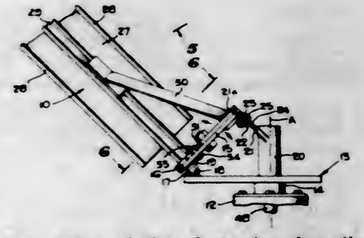
2,661,067
PROPELLER PITCH CONTROL
Thomas B. Martin, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 1, 1944, Serial No. 520,627
9 Claims. (Cl. 170—160.21)

1. A controllable pitch propeller unit comprising, a hollow shaft, a propeller hub mounted on the shaft and having radially extending blade sockets, blades each having a fluid motor mounted for rotation in the sockets, a fluid operated regulator including a fluid charged reservoir, a pump operable upon rotation of the propeller and a governor valve for supplying fluid under pressure to actuate the blade motors, said regulator being mounted on the hub in the rear of the blade sockets, an annular accumulator mounted on the hub in front of the sockets, conduit means connecting the accumulator with the pump and governor valve and including a selectively operable control valve for admitting fluid stored in the accumulator to the blade motors, a tubular extension aligned with the hollow shaft and extending axially within the annular accumulator, a nut for securing said propeller hub to the hollow shaft, means on said extension engaging said nut and effective to adjust the nut



upon movement of said extension, and means for locking said extension in adjusted position so as to hold the hub retaining nut in position and prevent loosening thereof.

2,661,068
AIR CIRCULATOR FOR ORCHARDS AND FIELD CROPS
Leo B. Gaskill, Pomona, Calif.
Application September 2, 1950, Serial No. 183,031
3 Claims. (Cl. 170—160.57)

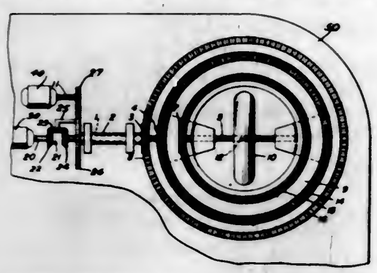


1. In apparatus of the character described: a hub rotary about a first axis; means supported by the hub providing a second axis spaced from the first axis and in a direction at a right angle to a plane including the first axis; a plate pivoted on said means about said second axis for tilting movement of said plate; adjustable means interconnecting the hub and the plate for maintaining said plate in any of a number of angular positions about said second axis; and a blade structure having a base; said plate having means providing a third axis about which the blade base is angularly adjustable, said third axis and the first axis lying in a plane normal to the second axis.

2,661,069
WHEEL DRIVING AND STEERING MECHANISM
Henry G. Cooper, United States Navy
Application January 10, 1951, Serial No. 205,397
4 Claims. (Cl. 180—13)
(Granted under Title 35, U. S. Code (1952), sec. 266)

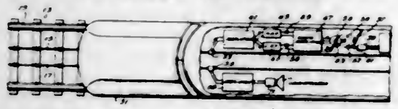
4. In combination, a steering shaft, a power shaft, a powered wheel, a supporting shaft to which the powered wheel is fixed, a rotatable supporting ring in which the wheel supporting shaft is diametrically mounted, a wheel powering ring

concentric with the rotatable supporting ring, power transmitting means operatively connecting the power wheel ring and the wheel supporting shaft, driving means connecting the wheel powering ring to the power shaft, driving means connecting the rotatable supporting ring to the steering shaft, and means including a differential gear-



ing interconnecting the drives for the rotatable supporting ring and the wheel powering ring, the said driving means including gears, the driving ratio of which is such that rotation of the steering shaft while the power shaft is stationary will give equal angular rotation of the power wheel ring and the rotatable supporting ring.

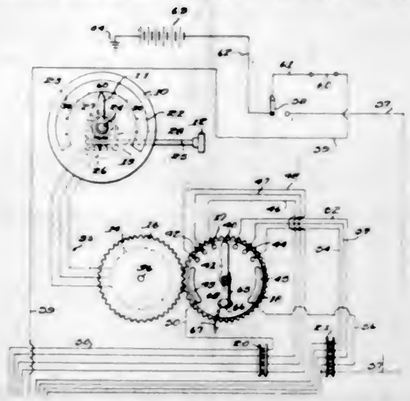
2,661,070
VEHICLE SIGNALING
Thomas M. Ferrill, Jr., Garden City, N. Y.
Application July 19, 1946, Serial No. 684,633
11 Claims. (Cl. 180—77)



1. A method of preparing a recording for enabling the progress of a first steerable, variable-speed vehicle along a path to be duplicated by a further vehicle, comprising operating said first vehicle along said path with steering and speed varied according to the character of successive parts of the path, and recording a chain of space-alternations and positioning said recorded chain of space-alternations along said path generally along the course traversed by said first vehicle, the number of said space alternations per unit length along a portion of said path being varied jointly according to the speed and the motive power of said first vehicle, and the lateral position of said chain of space alternations being varied jointly according to the course and the steering deflection of said first vehicle, said step of recording a chain of space alternations comprising generating an alternating signal, varying the frequency of said signal in predetermined relation to the motive power of said first vehicle, and recording said signal during the movement of said first vehicle.

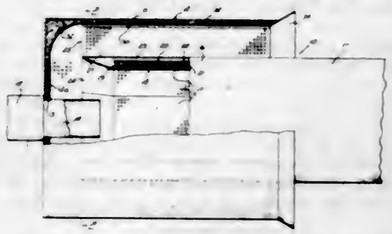
2,661,071
MOTOR VEHICLE SPEED CONTROL
Lavern George Hoener, East Chicago, Ind.
Application June 30, 1950, Serial No. 171,294
6 Claims. (Cl. 180—82.1)

1. A speed control unit for a motor vehicle having a carbureter comprising a button actuated indicator, a contact disc having a plurality of contacts thereon, a speedometer having a contact arm extended therefrom, means rotatably mounting the said speedometer with the contact arm thereof positioned to engage the contacts of the contact disc, means rotating the speedometer and contact arm thereof with the pointer of the indicator, means actuating a control valve of the



carbureter to correspond with the position of the contact arm of the speedometer, and means breaking circuits to the control valve actuating means for limiting the operation of the said control valve.

2,661,072
AIR-COOLED EXHAUST MUFFLER WITH SOUND ABSORBING PANELS
Carl W. Lemmerman, West Hartford, Conn., assignor to C. W. Lemmerman, Inc., Hartford, Conn., a corporation of Connecticut
Application November 14, 1950, Serial No. 195,515
9 Claims. (Cl. 181—42)

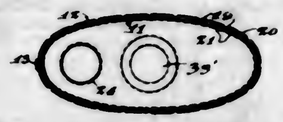


1. A sound muffler construction for ground testing jet engines or the like, comprising a generally tubular acoustical duct having an inlet opening at one end and an exhaust opening at the other end, a generally cup-shaped acoustical member disposed in spaced relation about the inlet end of said duct defining a generally annular air inlet opening therebetween and communicating with said inlet end opening, and means connectable to the exhaust port of the engine having an outlet disposed within the inlet end opening for introducing the exhaust gases of the engine into said acoustical duct.

2,661,073
SILENCER OR MUFFLER
Floyd E. Deremer, Detroit, Mich., assignor to Oldberg Manufacturing Company, Grand Haven, Mich., a corporation of Michigan
Application August 9, 1950, Serial No. 178,430
8 Claims. (Cl. 181—59)

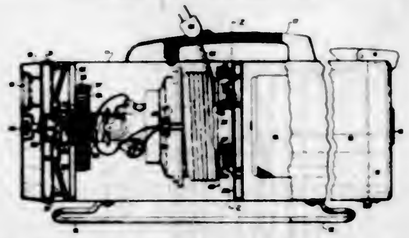
1. A muffler for use with the exhaust system of an internal combustion engine, comprising a tubular inner shell, a tubular outer shell, and front

and rear closure heads, said outer shell surrounding said inner shell and being of approximately the same length as said inner shell, gas inlet and outlet passages formed in said heads respectively, tubular gas passage means disposed in said inner shell, said gas passage means having openings in the walls thereof forming acoustic couplings with the interior of the inner shell, said outer and



inner shells being imperforate, one of said shells being formed with a plurality of substantially parallel ridges which engage with the other shell to provide within the space between said inner and outer shells a plurality of sound attenuating passages, the space between the shells being isolated from the interior of said inner shell whereby sounds entrained in the exhaust gas stream impinging upon said inner shell are damped.

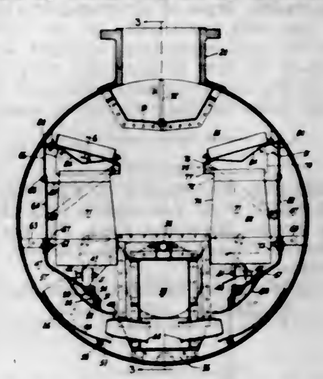
2,661,074
SUCTION CLEANER WITH CORD REEL
Dale C. Gerber, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application October 11, 1949, Serial No. 120,733
6 Claims. (Cl. 183—37)



3. In combination with a portable, electric appliance having a service cord, means for rotatably supporting an integral electric motor and cord reel assembly within said appliance, spring means urging said assembly to rotate in a direction to wind and store a service cord on said reel, an electric service cord for said appliance, means connecting the inner end of said service cord directly to said motor, and control means for selectively locking said rotatable assembly in different positions depending upon the length of extended service cord desired and for holding the service cord in a selected extended position against the reaction forces of said motor.

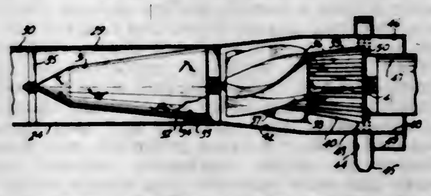
2,661,075
FLUID MIXING AND SEPARATING APPARATUS
Paul M. Brister, Madison, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey
Application October 25, 1950, Serial No. 192,105
10 Claims. (Cl. 183—22)

10. In apparatus for desuperheating steam, the combination comprising a drum, a source of superheated steam, a source of water, means for maintaining a substantially constant water level within said drum, means for mixing steam and water within said drum including a plurality of steam nozzles substantially equally spaced below said water level, means for delivering superheated steam to said steam nozzles, a pipe having a diverging end portion overlappingly encircling the discharge end of each of said steam nozzles to define an annular opening therebetween submerged in said water, a chamber separated from the water in said drum and arranged to receive a mixture of water and steam discharged from



said pipe, and means for separating water from said mixture including a plurality of whirl chambers each receiving a tangentially directed stream of said mixture from said chamber, each whirl chamber having a lower outlet below said water level for the discharge of water therefrom and an upper outlet above said water level for the discharge of substantially dry steam therefrom to a drum outlet steam nozzle.

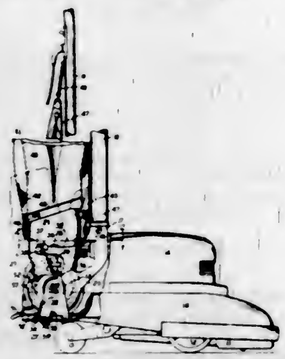
2,661,076
AIR-MOISTURE SEPARATOR
Robert E. Walker, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware
Application September 11, 1951, Serial No. 246,060
3 Claims. (Cl. 183—34)



1. An apparatus for removing entrained moisture from an air conditioning system comprising an insertable flanged tubular housing, an entrance portion of the said housing with a uniform radius, a mid-section of the said housing with a uniformly increasing radii, a discharge section of the said housing having an outer shell of uniform radius and a shorter inner shell of uniform radius centered and supported within the outer shell adjacent to the end of the said housing by a ring shaped abutment forming a buffer chamber, a circumferential collecting chamber around the said outer shell radially opposite the end of the said inner shell and apertures formed in the outer shell, a drain installed at the low point of the said collecting chamber; a fog condenser made of fiber glass materials formed about the exterior of a conical shaped screen frame removably retained within the said entrance portion to condense moisture carried by the incoming air; a moisture separator impellor having helical curved blades integral with a conical hub rotatably mounted in the said mid-section ad-

jacent to and in axial alignment with the said fog condenser to separate radially the condensed droplets of moisture from the air emerging from the said fog condenser directing the droplets toward the inner surfaces of the said mid-section and discharge section for subsequent withdrawal into the said collection chamber as the slower moving boundary layer of air transports the droplets over the said apertures; an air turbine secured to the said separator impellor absorbing the energy of air flow to drive the said separator impellor as the air is expelled through the said inner shell from the said discharge section.

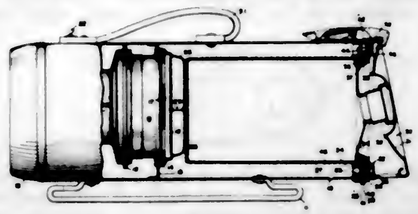
2,661,077
PROPELLING HANDLE AND FILTER BAG ASSEMBLY FOR VACUUM CLEANERS
George A. Brace, Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 12, 1950, Serial No. 200,422
25 Claims. (Cl. 183—51)



1. In combination with a suction cleaner of the floor type, a propelling handle pivoted to said cleaner having a non-propelling storage position and an inclined cleaner propelling range of movement, a filter assembly for said cleaner including a filter adapter pivotally connected to said cleaner adjacent the lower end of said handle, counter-balance means for substantially counterbalancing said filter assembly and said handle when said cleaner is being propelled, said means including a spring interposed between said cleaner and said assembly and handle so as to urge the same upwardly and including means for rendering said spring ineffective on said handle as said handle approaches said non-propelling storage position whereby said counter-balance means acts to move said filter assembly in unison with said handle when the latter is in its inclined cleaner propelling range of movement.

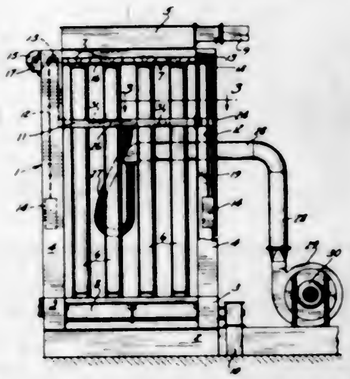
2,661,078
SUCTION CLEANER
John E. Vance, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 1, 1951, Serial No. 244,770
10 Claims. (Cl. 183—51)

1. In combination, a suction cleaner having a casing forming a housing for a dirt filter, a filter receiving opening in said casing, means adjacent said opening forming a seat for the open end of a filter bag housed within said casing, a filter clamping means for clamping the open end of said filter to said filter seating means comprising an annular member hinged to said cleaner to one side of said opening for pivotal movement toward and away from said filter seating means and operable when closed to hold the open end of a filter bag tightly sealed to said filter seating means, said filter clamping means having an



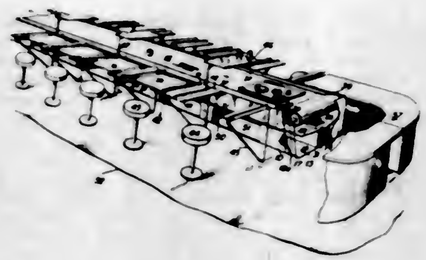
opening therethrough permitting the operator to inspect and determine whether the filter is properly seated and clamped, a cover for said opening having portions thereof adapted to engage and depress said clamping means, and releasable means for holding said cover in place.

2,661,079
AIR CLEANER CONSTRUCTION
Arthur B. Osgood and Arden E. Swanson, Minneapolis, Minn., assignors to The Day Company, Minneapolis, Minn., a corporation of Minnesota
Application December 12, 1951, Serial No. 261,192
3 Claims. (Cl. 183—61)



1. A cleaning device for tubular air filters of the type comprising a plurality of vertically extended tubes of flexible porous material connected at their upper ends by a plenum chamber having an inlet for dust laden air at relatively low pressure, and outlet means at the lower ends of said tubes for discharge of material filtered out of the air escaping through the interstices in the walls of said tubes; said cleaning device including a rigid delivery conduit, a plurality of cleaning rings one each associated with one of said tubes, each of said rings comprising a pair of diametrically opposed segmental ring sections adapted to encompass one of said tubes and movable toward and away from each other and said tube, yielding means biasing said cooperating ring sections toward each other and the associated tube, hinge means mounting each of said ring sections to said delivery conduit for lateral swinging movements independently of its cooperating ring section and the ring sections of adjacent cleaning rings, said hinge means comprising a plurality of arms each hinged at one end to a different one of said ring sections and at its other end to said delivery conduit for relative swinging movement on vertical axes, each of said ring sections defining a circumferentially extended chamber, flexible conduit connections between said delivery conduit and said sections for delivering air under relatively high pressure to each of said chambers, said conduit connections extending generally parallel to said arms, each of said ring sections having a circumferentially extended outlet opening directing the flow of air from its respective chamber radially inwardly toward the ring-engaged portion of its corresponding filter tube, means mounting said cleaning device for reciprocatory movements axially of the tube and mechanism for imparting said reciprocatory movements to the device.

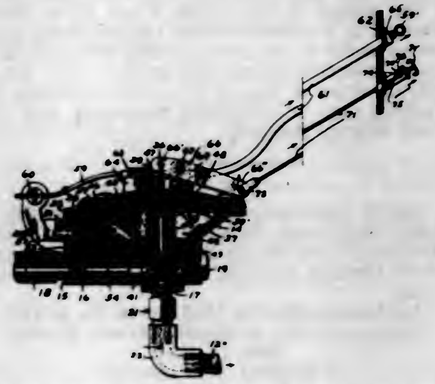
2,661,080
CONVEYER TABLE
James Xenakis, Long Branch, N. J.
Application August 4, 1949, Serial No. 108,463
2 Claims. (Cl. 186—1)



1. A restaurant table structure comprising a horizontal frame open along its top and having longitudinally extending side walls, an endless conveyor belt extending longitudinally in said frame between the side walls thereof and having an upper flight exposed through the open top of the frame, tray supports disposed laterally of said frame and projecting outwardly from the side walls thereof forming service stations, shelves supported between said service stations and extending over said conveyor, strips extending along upper edges of said side walls and having portions projecting outwardly from the side walls at a downward incline in overlying relation to inner portions of the trays and also having portions projecting inwardly from the side walls at a downward incline and overlapping side edge portions of the upper flight of said conveyor belt, portions of said conveyor extending downwardly at one end thereof, and a rotary brush mounted in said frame to contact said downwardly extending portion of said belt.

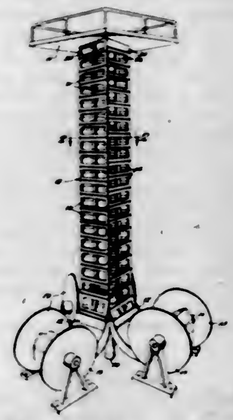
2,661,081
HYDRAULIC BRAKE CONTROL
Arthur C. Hager and Ted D. Jones, Berkeley, Calif.
Application September 16, 1950, Serial No. 185,312
12 Claims. (Cl. 188—152)

1. In a hydraulic brake system for an engine-propelled vehicle, a single check valve means normally operative for retaining fluid under pressure between it and the brake cylinder, means manually and releasably settable to render the valve means inoperative, and means independently actuatable by the vehicle engine solely during



and by reason of its operation to render the valve means inoperative.

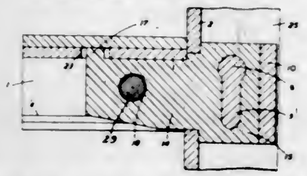
2,661,082
MULTIPART RETRACTABLE STRUCTURE
Tobias F. Ziegler, Chicago, Ill.
Application April 23, 1951, Serial No. 222,518
3 Claims. (Cl. 189—14)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A retractable support comprising three sections each formed of a row of units hinged to one another in joints transverse to the direction of the row, means permanently connecting the sections together at one end in a triangle with the joints in each row offset from the joints of each of the other rows and building up the end units even with one another, three reels spaced about the base of the structure from which the sections may be unwound while becoming progressively connected edge to edge so as to be projected as a triangle structure of increasing length and upon which the sections may be wound while becoming progressively disconnected so as to be retracted as a triangular structure of decreasing length, the sides of each unit of each row abutting at an acute angle at each corner having projections opposite the hinges of the adjacent row and recesses at the joints engageable with corresponding recesses and projections on the units of the other two rows, relative engagement and disengagement of the projections and recesses oc-

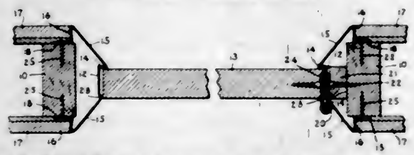
curring upon the progressive hinging movement and interlocking of the units of each row during winding and unwinding of the rows, gear racks on the inside of the three rows, three shafts arranged in a triangle within the structure, gears secured to the shafts and meshing with the racks, means interconnecting the shafts, and means applying drive to one of the shafts whereby the structure may be retracted, projected, and held in any desired position.

2,661,083
JOINT BETWEEN CHANNEL MEMBERS
Robert Henderson, Bovey Tracey, South Devon, England, assignor to Robert Building Inventions Limited, London, England, a British company
Application May 20, 1949, Serial No. 94,411
Claims priority, application Great Britain May 31, 1948
13 Claims. (Cl. 189—36)



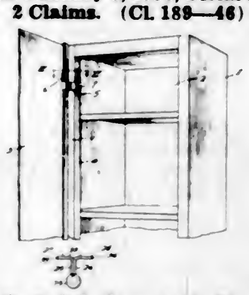
1. A coupling comprising a first channel member having opposite side flanges, a back web and an open opposite side, said side flanges having aligned openings therein, a second channel member, a tongue member extending through said openings, said tongue member having recesses therein disposed between said side flanges, a keeper having a base fitting between the side flanges and legs thereon extending toward said back web, engaging the recesses in said tongue member and retaining it against endwise movement, an extension having an angularly related projection thereon mounted on said tongue member and projecting therefrom to the outside of said first channel member, a slotted block in said second channel member receiving said extension and projection, and means securing the slotted block to said second channel member and to said extension.

2,661,084
DOORFRAME
Joseph J. Steffan, St. Louis, Mo.; Julius A. Steffan and Dolores H. Williams, executors of said Joseph J. Steffan, deceased
Application August 8, 1949, Serial No. 109,133
5 Claims. (Cl. 189—46)



1. A door frame comprising sheet metal jamb sections each having an intermediate web to match an edge of the door, divergently inclined side trim members at opposite sides of said web, a door stop integrally connecting one side of said web to one of the side trim members, and a relatively small convex bead integrally connecting said web to the other side trim member, said bead and door stop being extended inwardly, into the door-receiving space at opposite sides of said web and arranged longitudinally of the sheet metal jamb sections to provide a cushioning air pocket therebetween when said door is moved from open to closed position.

2,661,085
CABINET DOOR HINGE
Stanley E. Weinthal, Pittsburgh, and Stanley A. Flowers and Leonard J. Flowers, Oakmont, Pa., assignors to Walters Manufacturing Company, Oakmont, Pa., a corporation of Pennsylvania
Application January 6, 1950, Serial No. 137,202
2 Claims. (Cl. 189—46)

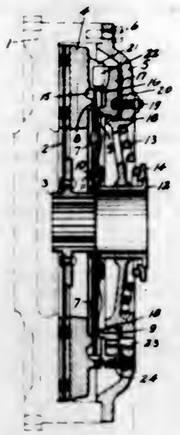


1. A sheet metal door and hinge structure comprising a sheet metal panel having a side edge curved in the shape of a quarter-round with a flange parallel to said panel and projecting inwardly from the outer edge of the quarter-round and terminating along a line adjacent the axis of said quarter-round, and hinge means comprising a pivot pin positioned substantially centrally of the inner and outer edges of said quarter-round and adjacent the inner surface thereof with its axis parallel thereto, stationary and movable hinge parts positioned in vertically spaced relation and detachably connected by said pin, one of said hinge parts having a permanent connection with said pin and the other having a sliding connection therewith providing for assembly and disassembly of said hinge parts upon movement of said hinge parts relative to each other in a vertical direction along the axis of said pin, a mounting bracket for said movable hinge part comprising a base member secured to the inner surface of said door flange and having a supporting arm extending outwardly therefrom and connected with said movable hinge part, and a mounting bracket for said stationary hinge part comprising an angle having its apex positioned inwardly of the inner edge of said quarter-round with one arm extending parallel to the door panel and a connection at its outer end to said stationary hinge part and its other arm extending normal to said door panel and spaced a slight distance from the inner edge of said door flange when the door is in a closed position, said door flange having a slot in its said inner edge in which said angle is received upon movement of the door a small distance out of its closed position whereby hinge part disengaging movement of the door is prevented except when the door is in a substantially closed position.

2,661,086
FRICTION CLUTCH WITH LEVER FULCRUM RING ASSEMBLY
Charles B. Spase, Nedrow, N. Y., assignor to Lipe-Rollway Corporation, Syracuse, N. Y., a corporation of New York
Application June 16, 1950, Serial No. 168,463
2 Claims. (Cl. 192—111)

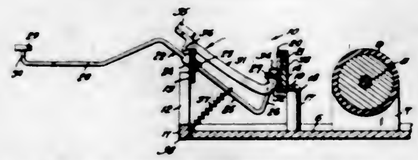
1. A friction clutch of the class described comprising driving and driven members, a pressure

ring, the driven member extending between the pressure ring and the driving member, a back plate rotatable with the driving member, throw-out mechanism comprising a throw-out collar and radial levers operated thereby slidably pressing on the pressure ring and slidably fulcrumed on a fulcrum ring carried by the back plate, and clutch spring means acting on the throw-out collar and located to engage the clutch; the clutch con-



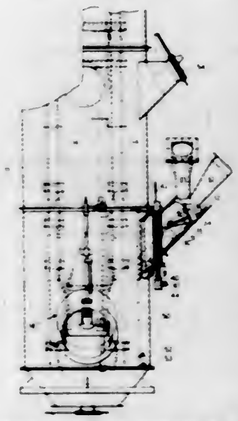
struction being characterized by the back plate having on its inner side adjacent to the pressure ring a cylindrical surface and said fulcrum ring being slidably mounted on said surface for axial adjustment toward and from the pressure ring, adjusting screws extending through the back plate and rotatable in recesses in the fulcrum ring and thrusting against the fulcrum ring, and driving lugs between the pressure ring and the periphery of the fulcrum ring.

2,661,087
KEY LEVER AND TYPE BAR MOUNTING FOR TYPEWRITING MACHINES
Winifred M. Patton, Chicago, Ill.
Application October 13, 1950, Serial No. 190,006
5 Claims. (Cl. 197—27)



5. In a typewriting machine, a plurality of key levers each pivotally mounted intermediate of the ends thereof and having an outer end and an inner type bar supporting end, a key fixed to and mounted on the outer end of each key lever, a type bar having an end pivotally connected to the inner type bar supporting end of each lever, said type bar end having a pinion segment partially surrounding the pivotal connection of the key lever and type bar, and a stationary rack member having a rack portion in meshing engagement with and individual to each pinion segment whereby the opposite, free end of each type bar will be swung to a projected platen engaging position when the key lever, connected to said type bar, is rocked in one direction and returned to a retracted, inoperative position when said key lever is rocked in the opposite direction, said stationary rack member having grooves provided with bed portions defining said rack portions for guiding the pivotally connected ends of the key levers and type bars as the type bars are swung between projected and retracted position.

2,661,088
ELEVATOR CASING AND CLOSE FITTING ADJUSTABLE FEED CHUTE
Stanley M. Mercier, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application October 3, 1946, Serial No. 700,928. Divided and this application January 10, 1951, Serial No. 205,380
7 Claims. (Cl. 198—55)

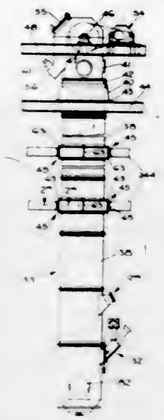


1. An elevator for hot material including an elongated upstanding casing, means supporting said casing adjacent its top with substantially the entire casing hanging downwardly therefrom and suspended thereby, an endless elevator conveyer within said casing, a stationary feed chute for said conveyer including a chute extending into said casing near its bottom, means providing for vertical movement of said casing relative to said chute including a pair of relatively slidable frames, one connected rigidly to said chute, the other connected rigidly to said casing, a spring pressed seal between said frames, and conduit means for conducting fluid under pressure between said frames whereby material may be blown from between them.

2,661,089
BUCKET ELEVATOR HOUSING
Stanley M. Mercier, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application October 3, 1946, Serial No. 700,928. Divided and this application May 27, 1950, Serial No. 164,771
13 Claims. (Cl. 198—206)

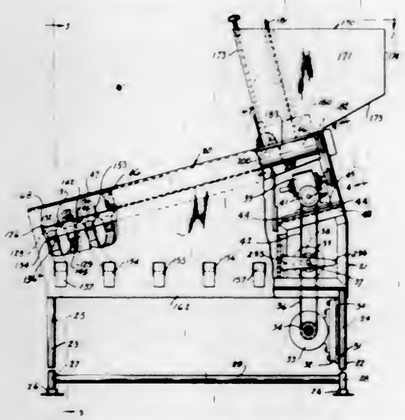
1. An elevator including an elongated upstanding casing, said casing including means forming a circumferential supporting area adjacent its top, means including a circumferential skirt for supporting said supporting area forming means, said casing being supported at least largely from said supporting area forming means and extending therefrom vertically at least in one direction a substantial amount whereby it is free to expand and contract as a unit, guide means for said cas-

ing spaced vertically from said supporting area forming means and having guiding contact with



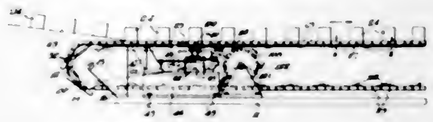
said casing while providing for its free expansion and contraction as aforesaid, and elevator conveyer mechanism in said casing.

2,661,090
SORTING MACHINE
Burton R. Garrett, Astoria, N. Y.
Application September 28, 1948, Serial No. 51,559
17 Claims. (Cl. 209—107)



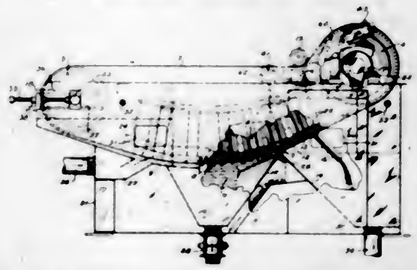
1. In a machine having inclined rotors adjacent to each other and driven in opposite directions with their adjacent peripheries moving upwardly, an article hopper spanning and having a bottom opening communicating with portions of the upper ends of said rotors for containing articles to be delivered to portions of said rotors beyond said hopper, a slot formed in the wall of said hopper in alignment with a vertical plane extending between and equidistant from the axes of said rotors, a gate wheel adjustably supported on said last wall of said hopper and extending through said slot and at least partially between said rotors on said plane, and means to rotate said gate wheel to move the lower portion of its periphery counter to the direction of the movement of articles down said rotors, thereby spacing said articles therealong.

2,661,091
APPARATUS FOR WEIGHT CLASSIFICATION
Norvin G. Maloney, Newport, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 24, 1951, Serial No. 207,636
10 Claims. (Cl. 209—121)



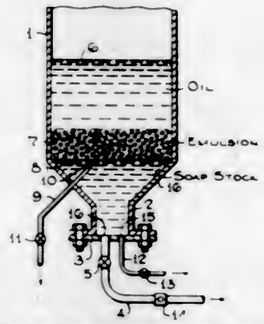
1. An apparatus for the classification of a plurality of articles according to weight while said articles are in free translation in a gasiform atmosphere at substantially constant velocity comprising means moving said articles at a substantially constant velocity horizontally, a gravity-deflectible total mass system having an article-receiving means with its mass opposed to a standard mass of known classification disposed substantially co-planar with the path of horizontal movement of the base portions of said articles, means for determining the gravitational rate of acceleration of said total mass system when each article individually is disposed on said article-receiving means and for deriving a signal which is a function of said gravitational rate of acceleration, means returning said article-receiving means to original position substantially co-planar with the path of horizontal movement of the base portions of said articles after determination of said rate of acceleration, and means segregating said articles in accordance with the individual signals corresponding to each of said articles.

2,661,092
ENDLESS BELT MAGNETIC SEPARATOR
Stanley G. Injeski, Milwaukee, Wis., assignor to Dings Magnetic Separator Co., Milwaukee, Wis., a corporation of Wisconsin
Application March 8, 1950, Serial No. 148,475
2 Claims. (Cl. 209—223)



1. In a magnetic separator, horizontally spaced pulleys, a series of electro-magnets located between said pulleys and having poles formed to create an arcuate magnetic field the medial portion of which extends downwardly below the lowermost portions of both of the pulleys, an endless conveyor belt coacting with said pulleys and having its lower run longitudinally movable through said field and along said magnet poles, means forming a liquid basin within which the medial portions of said belt run and of said magnetic field are immersed, means for feeding mixed magnetic and non-magnetic particles toward the lower face of said belt run at one end of said basin, and a substantially straight and imperforate inclined guide plate of non-magnetic material having its lower end immersed within the liquid near the opposite end of said basin and its upper end portion gradually approaching said belt run and terminating above said liquid closely adjacent to the last pole of said magnet series, said last pole also being above said liquid and cooperating with its energizing magnet to produce increased flux intensity at the point of closest approach of said plate toward said belt face.

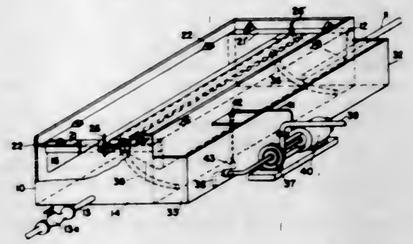
2,661,093
REFINING VESSEL DRAW-OFF SYSTEM
Alton L. Sawyer, Morristown, N. J.
Application February 19, 1951, Serial No. 211,685
1 Claim. (Cl. 210—51)



A process for discharging, with minimum oil loss, some of the contents from the bottom of a tank provided with a discharge valve and used in settling fatty oils which had been treated with a heavier aqueous liquid, said contents being composed of a bottom aqueous layer, a supernatant top oil layer, and a supernatant intermediate emulsion layer of oil and aqueous liquid, comprising, while discharging said contents, the step of drawing a first substantially continuous bleed sample from within the liquid disposed in the bottom of the tank until a supernatant layer is observed, then closing the discharge valve gradually, drawing a second substantially continuous bleed sample from the bottom of the tank, and closing the discharge valve completely when the supernatant layer is observed in the second bleed sample, said first bleed sample being drawn from the liquid at a point separated vertically from the point of drawing of said second bleed sample by a volume equal to at least about one-fifth to one-fourth of the volume of the bottom aqueous layer originally present therein, thereby allowing sufficient time for closing the discharge valve within the time interval when the supernatant layer is first observed at the two bleed lines.

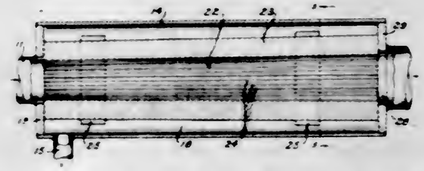
2,661,094
VARIABLE VOLUME SEPARATOR FOR LIQUIDS
William B. Stewart, Scarsdale, N. Y., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application October 3, 1950, Serial No. 188,120
6 Claims. (Cl. 210—54)

1. A variable volume separator comprising an elongate settling vessel having walls at least the upper portions of which extend vertically; a floating roof movable vertically within said walls having pontoon means for floating on liquid in said vessel and having at least one part thereof at a level to be immersed in said liquid and inclined to form a confined collecting space of reduced horizontal area for supernatant liquid, said space extending longitudinally with respect to said vessel; an inlet at one end of the vessel for introducing a liquid mixture to be separated; an outlet at the other end of the vessel for discharging settled denser liquid from the vessel after traversing the



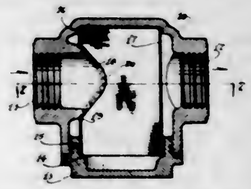
length thereof; a skimmer in said collecting space having an elongate skimming edge extending longitudinally with respect to the vessel and being vertically movable with said roof for receiving supernatant liquid; and means for drawing off supernatant liquid from said skimmer.

2,661,095
FLUENT MATERIAL CONCENTRATOR
Ervin A. Koth, Milwaukee, Wis., assignor to The Vilter Manufacturing Co., Milwaukee, Wis., a corporation of Wisconsin
Application September 6, 1950, Serial No. 183,434
3 Claims. (Cl. 210—164)



1. In a concentrator for solid particles suspended in excess liquid, a tubular casing having a liquid outlet, and an elongated conduit extending through said casing and being spaced from the casing interior to provide an annular space communicating with said outlet, said conduit being formed of an annular series of relatively inclined and spaced bars extending longitudinally of the conduit and providing elongated narrow longitudinally flaring and radially enlarging slits connecting the conduit interior with said space.

2,661,096
STRAINER
Earl E. Tinker, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application May 31, 1950, Serial No. 165,290
8 Claims. (Cl. 210—165)



1. A strainer of the class described comprising: a body forming a screen chamber having one

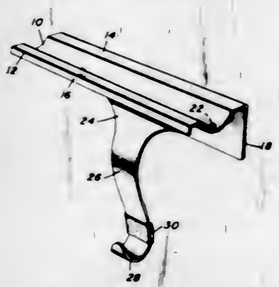
open end, a side inlet, and an outlet; a removable closure for said body forming an end wall for the open end of said chamber; a cylindrical screen within said chamber having a side opening facing said inlet, the ends of said screen being in engagement with the end walls of said chamber; and a flange projecting into said chamber from said inlet and into said screen opening, said flange engaging the edges of said screen opening about their entire extent and having an end edge configuration conforming substantially to the edge configuration of said screen opening, whereby said flange overlaps said screen opening edges by a substantially equal amount about their entire extents, and the maximum distance between the end edge of said flange and the opposite wall of said screen chamber being at least as large as the outer diameter of said screen in order to facilitate introduction and removal of said screen.

2,661,097
CAN STACKING DISPLAY DEVICE
Nicholas Paul, Brooklyn, N. Y.
Application November 8, 1949, Serial No. 126,217
1 Claim. (Cl. 211—74)



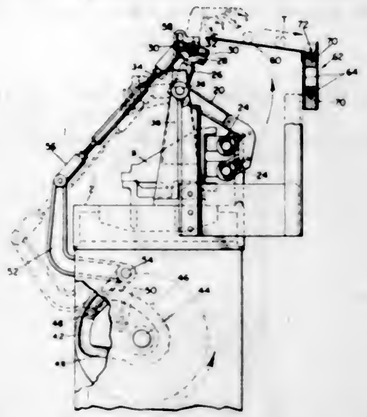
A display unit for stacking cans, comprising a pair of spaced wide, resilient strips, each being outwardly arcuate, a pair of narrow resilient, inner strips connected to the wide strips adjacent outer ends thereof, said inner strips being oppositely concave whereby pressure together bends the outer strips inwardly.

2,661,098
WALL HOOK
Henry W. Wannop, Skytop, Pa.
Application August 26, 1949, Serial No. 112,607
1 Claim. (Cl. 211—87)



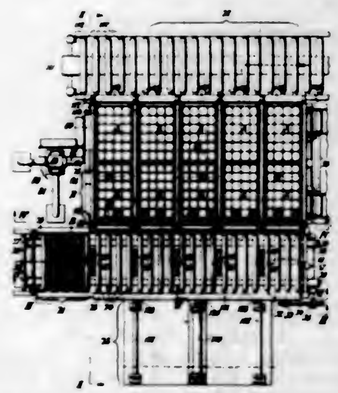
A wall fixture for use in bathrooms comprising a one-piece elongated member of fireproof material having front and rear raised longitudinally flat coplanar portions and an intermediate depressed open ended longitudinal trough portion between said flat portions for receiving cigarette and cigar butts and ashes, an elongated apron depending from said rear portion, means for removably securing said apron to a wall, and a bowed spring clip depending from the central portion of said elongated apron, said clip including an upturned hook at its bottom end for receiving articles of clothing, the space between the wall and the bowed portion of the clip being adapted to receive magazines and newspapers.

2,661,099
TUBE DELIVERY APPARATUS
Robert W. Falconer, Lancaster, N. Y., assignor to Daystrom Incorporated, Elizabeth, N. J., a corporation of New Jersey
Application September 23, 1948, Serial No. 50,771
5 Claims. (Cl. 214—1)



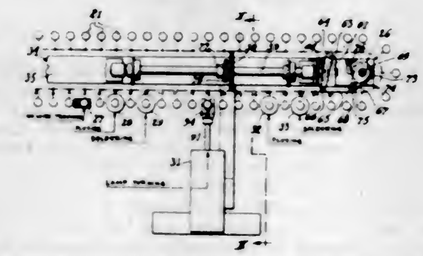
4. Pick-off mechanism for the delivery of tubular bodies comprising an arm, a support carried thereby, a pair of jaws pivotally mounted on the support, a spring connected to the jaws to urge them to a closed position, the support being provided with a bore, an operating pin in the bore, the pin being provided with a pair of reduced portions, one of which is shallower than the other, and members carried by the support adapted to be received in either of said reduced portions, the members when received in the deeper reduced portion permitting the spring to close the jaws and when received in the shallower reduced portion retaining the jaws in open position.

2,661,100
ARTICLE HANDLING APPARATUS
Leonard F. Ashford, Philadelphia, Pa.
Application June 2, 1950, Serial No. 165,821
10 Claims. (Cl. 214—1)



9. Beverage case handling apparatus comprising a palletized case rack constructed to carry a plurality of cases in spaced, tiered relation, an elevator for the rack, means for placing a rack which contains cases of empty bottles on said elevator, means for raising the elevator and rack, retaining means on said elevator for maintaining said rack in fixed position on said elevator, means for spacing out cases of full bottles at a given level adjacent said rack in registry with one tier of the cases in the rack, and means for moving the cases of full bottles into the rack, thereby displacing from the rack the cases of empty bottles, and means for lowering the elevator to bring successive tiers of the rack to said given level and means for successively displacing the cases of empty bottles from said tiers.

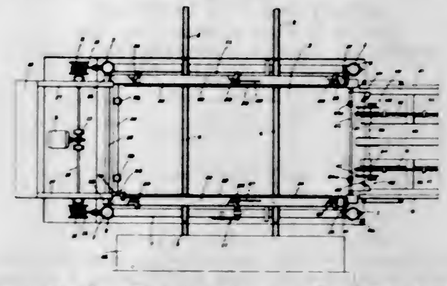
2,661,101
MACHINE FOR TURNING FLUORESCENT LAMPS AND OTHER ELONGATED DEVICES END FOR END
Daniel Mullan, Hillside, and Hugo Bauer, Newark, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 14, 1951, Serial No. 215,693
14 Claims. (Cl. 214—1)



1. In a machine for processing fluorescent lamps, a conveyor indexing from station to station, means on said conveyor for holding, while performing operations on the lower end portion of, a series of said lamps with their axes vertical and subject to forcible removal, and means at one of said stations for automatically removing each lamp from its holding means, reversing it in position and returning it to said holding means for the performance of similar operations on the other end portions, said means comprising auxiliary apparatus driven in synchronism with said machine and including a frame, a carriage slidable on said frame, means for effecting desired sliding of said carriage, a shaft mounted to turn in, and carrying means to prevent relative longitudinal movement with respect to, said carriage, a pillow block mounted on said frame, a bearing carrying said shaft and turning in said block, a pinion secured to said bearing, means also secured to said bearing for turning said shaft with said pinion while allowing independent reciprocation, gripping means carried by said shaft, and means for operating said gripping means to approach a lamp, grasp and withdraw it from its holding means, twirl it about a horizontal axis to reverse position, and return it to its holding means.

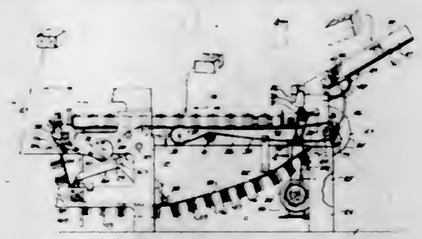
2,661,102
TRAY STACKING MACHINE
William G. Trigwell, Capitola, Calif., assignor to Chapman Dehydrator Co., Inc., Modesto, Calif., a corporation of California
Application August 30, 1948, Serial No. 46,865
7 Claims. (Cl. 214—6)

1. A tray stacking machine comprising a tray conveyor, an open frame mounted beyond the discharge end of the conveyor for the reception of trays one at a time from the conveyor and to then support each tray in a predetermined position, the frame including normally laterally inwardly advanced but laterally outwardly retractable ledges on opposite sides thereof which engage in supporting relation below each tray in said position, a stack support below the frame disposed to catch dropped trays in a stack thereon, the ledges being longitudinal members slidable in said direction, means connected to the ledges



to cause the same to retract and release a supported tray upon longitudinal sliding of the ledges, and means to effect said longitudinal sliding of the ledges in timed relation to reception of a tray on the frame in said predetermined position; there being a supplementary feeding mechanism mounted to advance conveyor discharged trays onto the frame and to said predetermined position, and said means which effects longitudinal sliding of the ledges being actuated by said mechanism.

2,661,103
STACKING AND CONVEYING APPARATUS
Joseph W. Fay and Rudolph J. Fay, Villa Park, Ill., assignors to Schulze and Burch Biscuit Company, Chicago, Ill., a corporation of Illinois
Application January 22, 1952, Serial No. 267,543
11 Claims. (Cl. 214—6)



1. In a machine for collecting and delivering soda crackers or similar articles in stacks to a principal wrapping machine, a pair of inclined chutes onto which crackers are loaded in contiguous alignments for gravitational descent, an endless belt conveyor disposed between said chutes, a rotary wheel beneath each of said chutes onto which said crackers gravitate for counting out a predetermined quantity thereof during each cycle of rotation, a stockade within which said counted-out crackers are collected, a plunger associated with each of said stockades for shifting a collected stack of crackers from said stockade onto said belt conveyor, a pneumatic piston and housing for selectively projecting and retracting each of said plungers, a timing shaft carrying cams for supervising the selective projection and retraction of said pneumatic pistons and thereby of said plungers, a ro-

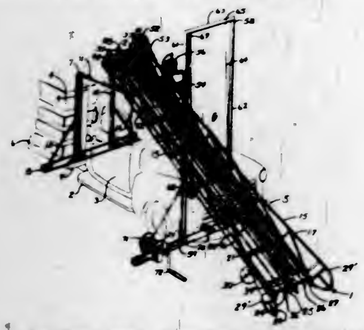
tary power take-off driven by a continuously rotating shaft of the principal wrapping machine for operating said timing shaft in timed relation with the operation of said principal wrapping machine, and a reciprocating power take-off also driven by said principal wrapping machine shaft for advancing said belt conveyor in intermittent movements between successive operations of said stockade plungers.

2,661,104
GRAIN BED FOR VEHICLES
Harold C. Sego, Kansas City, Mo.
Application May 17, 1948, Serial No. 27,529
1 Claim. (Cl. 214—83.2)



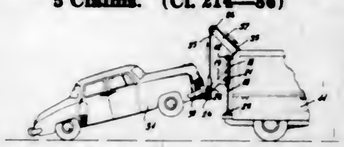
A wheeled vehicle including an elongated box having inclined side walls and having a bottom provided with a series of spaced-apart holes formed therethrough, a series of spaced-apart closures hinged at their front edges to the lower side of said bottom and adapted for manual operation whereby they are selectively operable to control the flow of material from any predetermined transverse portion of said box, a discharge conveyor having an endless belt traveling over a stationary plate and carried by said vehicle in spaced relation below said box bottom operable to receive material from said box and to deliver it to the rear of said vehicle, and resiliently operable means to constantly urge said closures toward the closed position.

2,661,105
LOADER AND ELEVATOR ATTACHMENT FOR VEHICLES
Hessel L. Purdy, Braman, Okla.
Application August 18, 1951, Serial No. 242,482
4 Claims. (Cl. 214—83.26)



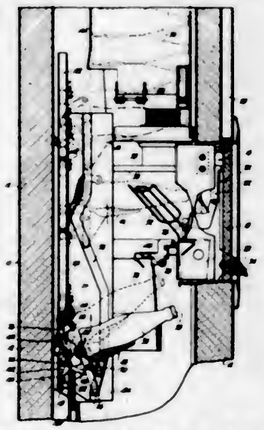
1. A loader and elevator attachment for a truck including an elongated elevator frame, a conveyor support adapted for attachment to the truck, means pivotally mounting the conveyor frame on the support to carry one end of the conveyor frame, caster wheels carrying the other end of the conveyor frame, a motor carried by the support including a reversible speed reducing unit having a driving member in coaxial alignment with said pivotal mounting, an endless conveyor chain having an upper run extending along the conveyor frame for moving the articles on the conveyor, sprockets supporting the chain, shafts for mounting the sprockets at the ends of the conveyor frame, a driving member on the shaft nearest the pivotal mounting, means connecting the driving members, a gantry adapted for attachment to the front of a truck and having a height to extend above the horizontal level of the pivotal means, and lifting means connecting the gantry with the conveyor to lift the wheel supported end to a substantially horizontal carrying position and to a substantially upwardly inclined position for elevating the articles from the truck.

2,661,106
CAR TOW MECHANISM
Carl E. Morgan, Grants Pass, Oreg., assignor of twenty-five per cent to Orville F. Crenshaw, and twenty-five per cent to Loren A. Davis, both of Dunsmuir, Calif.
Application December 9, 1949, Serial No. 132,130
5 Claims. (Cl. 214—86)



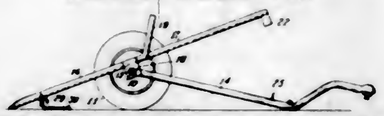
1. A towing device comprising a post member, a socket member adapted for attachment to the towing vehicle to support the post in a perpendicular position, a bracket engaging the upper end of the post and for attachment to the towing vehicle, said socket and bracket together retaining the post against rotation, a sleeve slidably and pivotally disposed on the post, a downwardly and rearwardly projecting arm carried by the sleeve, a bracing strut secured between the said arm and said sleeve, a horizontally disposed car support secured to the outer end of said arm, and perpendicularly disposed stop means at the inner end of the car support.

2,661,107
VENDING MACHINE HAVING TILTABLE BOTTLE CRADLE FOR MOVING BOTTLES TO VENDING POSITION
Ralph H. Menning, Kansas City, Mo., and Robert T. Manley, Kansas City, Kans., assignors to The Vendo Company, Kansas City, Mo., a corporation of Missouri
Application July 16, 1951, Serial No. 236,917
12 Claims. (Cl. 214—313)



1. In a vending machine, an article advancing assembly including a reciprocable, article-receiving cradle; means for reciprocating said cradle; means for swinging the cradle as the same reciprocates; a shiftable article clamp mounted on the cradle for reciprocation therewith; and means for shifting the clamp to and from a position engaging an article on the cradle in response to swinging movement of the latter during reciprocation.

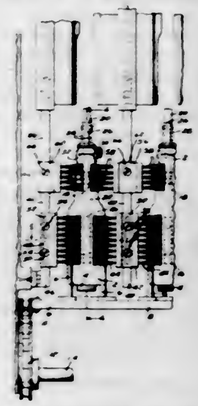
2,661,108
TRANSPORT TRAILER
John C. Horn, Alexandria, and Rufus W. Wilson, Huntingdon, Pa., assignors to Wald Industries, Inc., Huntingdon, Pa., a corporation of Pennsylvania
Application December 7, 1950, Serial No. 199,634
6 Claims. (Cl. 214—506)



6. A trailer comprising an axle having a pair of wheels rotatably mounted thereon, a platform comprising an inner trackway and a pair of outer trackways, said outer trackways provided adjacent their forward ends with depending flanges affixed to said axle, said inner trackway having depending flanges intermediate its ends affixed to said axle, said platform and axle having a pivotal movement with respect to said wheels, a forwardly extending tongue connected to said axle intermediate the depending flanges of said inner trackway, a tie rod secured to the rear ends of said outer and inner trackways, said outer trackways having inclined stop members formed on the forward end portions and arranged to project slightly forward of said axle, said inner trackway having a portion extending forwardly of said axle and arranged in aligned relation with said tongue, said platform being disposed in an inclined plane when in an unloaded condition, said trackways adapted to pivot with said axle upon the moving of a three wheeled vehicle upon said platform, with the outer wheels of said wheeled vehicle arranged to engage the inclined stop members on said outer trackways for pivoting said platform and axle and moving the forward portion of said inner trackway into engagement with said tongue, and locking means on said tongue engageable with said inner trackway for securing said trackway to said tongue.

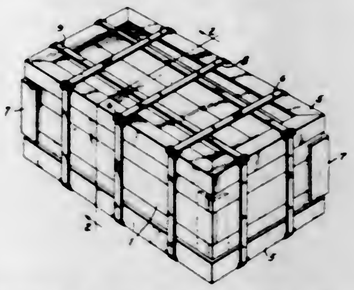
2,661,109
LABEL WIPING MACHINE
Charles C. Gerhardt, Douglaston, N. Y.
Application August 11, 1953, Serial No. 373,499
3 Claims. (Cl. 216—13)

1. In a label applying machine, the combination with means for moving transversely curved containers to be labeled rectilinearly between intake and discharge points and means for temporarily engaging at intermediate parts thereof and holding against the containers labels to be applied thereto which have been supplied along marginal portions thereof with an adhesive, of means for wiping said labels into smooth adhering relation to the containers, said means comprising successive banks of bristles extending for a substantial distance along and parallel to the paths of travel of the containers and projecting from both sides to like extents into the paths of travel of the labels with the containers, the spacing between successive banks being such that each succeeding bank of bristles begins its wiping action before the wiping action of the preceding bank has been completed, and a plate upon each side of the paths of travel of the containers on which the successive banks of bristles are mounted, said plates having their bristle-supporting faces parallel to the paths of travel of the containers and said plates intermediate the paths of laterally adjacent containers having



supporting webs extending perpendicularly from the rear face of each plate and having provision for receiving screws therethrough, and vertically extending supports for said plates having provision for receiving said support-attaching screws therein whereby said wiping assemblies may be adjusted on said supports and reversed or interchanged in any adjusted position to produce the same wiping action.

2,661,110
DISMOUNTABLE PACKAGING BOX
Riccardo Allavena, Milan, Italy
Application October 13, 1949, Serial No. 121,165
Claims priority, application Italy October 22, 1948
2 Claims. (Cl. 217—12)



1. A generally rectangular knockdown shipping crate comprising four side walls each formed by an inner and an outer layer of wooden boards disposed parallel one with another, alternate boards of one layer being shortened by the wall thickness of the boards of the respective layer and positioned to abut against corresponding boards of the respective layer of the adjacent side walls so as to form closed interlocking side walls, the boards of the other layer of each side wall being disposed at a right angle to the boards of the first mentioned layer, a bottom wall and a top wall each composed of an inner layer and an outer layer of parallel wooden boards disposed at right angles relative to each other,

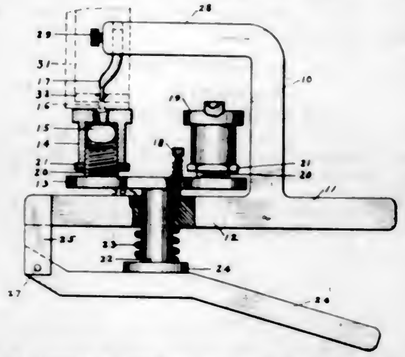
the perimeter defined by the outer layer of the bottom and top wall respectively corresponding to the outer perimeter defined by the outer layer of the four side walls and the perimeter defined by the inner layer of the bottom and top wall respectively corresponding to the inner perimeter defined by the inner layer of the four side walls whereby the inner layer of the bottom and top wall respectively fit into the space confined by the side walls and the marginal portions of the outer layer of the bottom and top wall protruding beyond the respective inner layer abut flush against the respective end faces of the side walls, and L-shaped angle irons secured to the said protruding marginal portions at the four sides of said top and bottom wall, one flange of each of said irons being parallel to the plane of the said outer layer, the second flange hugging the flank of said marginal portions and depending toward the inner layer of the bottom and top wall respectively so as to form a perimetral groove between the inside of each second flange and the outer perimeter of the said inner layer, the said grooves being engaged by the top and bottom edge respectively of the four side walls, thereby securing the said side walls in a crate-forming spatial relationship.

2,661,111
BOTTLE CASE
Hugo C. Haffner, Brooklyn, N. Y.
Application June 19, 1951, Serial No. 232,379
2 Claims. (Cl. 217—22)



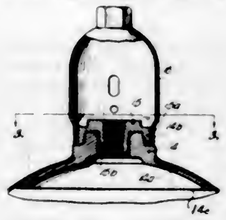
2. A bottle case having side and end walls and a bottom, the ends walls of said case being substantially rigid, a readily insertable and removable filler in said case composed of a plurality of flexible transverse and longitudinally extending strips connected together as a unit, a plurality of the longitudinal strips in said filler unit having a length less than the inside length of said case and being provided on their ends with longitudinally projecting members having a depth substantially less than the depth of said strips and located between the top and bottom edges thereof, the transverse strips in said filler having a length greater than the inside width of said case, said side walls being provided with vertical grooves having open ends at the tops of said side walls, the ends of said transverse strips being slidable in the open ends of such grooves to be removably retained in such grooves, said end walls being provided with horizontal grooves between the top and bottom edges thereof receiving said projecting members in a horizontal direction and coacting with such members to prevent movement of said filler unit in a vertical direction, the ends of said longitudinal strips being capable of being readily flexed out of normal position in a horizontal direction to enable the filler unit to be inserted or received and having sufficient inherent resiliency to cause said projecting members to interlock with such horizontal grooves when released after insertion of the filler into the case.

2,661,112
PORTABLE RIVET REMOVER AND SETTER
Frank G. Davis, Baltimore, Md.
Application December 19, 1951, Serial No. 262,366
4 Claims. (Cl. 218—19)



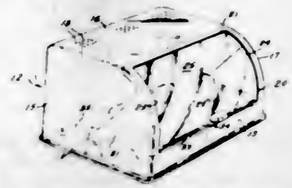
1. A portable rivet removing and setting device comprising a C-shaped frame, a handle extension protruding from the lower leg of the C-shaped frame, a rivet remover and setter carried by the upper leg of the C-shaped frame and projecting downwardly therefrom, a raising bar pivoted to the lower leg of the frame and extending beneath and spaced from said lower leg, said lower leg having an opening therethrough, a shaft extending through said opening and rotatable therein, said shaft having an abutment at its lower end resting on the aforesaid raising bar, said shaft having a plate at its upper end extending above the lower leg of the frame, a spring surrounding the shaft and biasing the plate downwardly, a threaded stud carried by the plate in alignment with the rivet setter and remover, and a die adjustable on said stud, whereby said plate and die are movable towards the rivet setter and remover upon movement of the raising bar toward the handle.

2,661,113
HIGH-PRESSURE CONTAINER WITH ADAPTER FOR DISCHARGE APERTURES
Ernest H. Benson, Kansas City, Mo.
Application January 8, 1951, Serial No. 204,869
3 Claims. (Cl. 220—3)



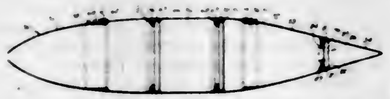
1. In a container for pressurized fluids having a neck-like projection provided with an internally threaded aperture extending axially therethrough and communicating with the interior of the container, an adapter for said neck-like projection comprising a tubular boss threaded internally and externally, said boss being threadedly inserted in said aperture and having an enlarged head bearing tightly against the outer end of said neck-like projection, and a depending annular flange integral with said head and concentric with said boss, said flange surrounding and fitting closely with the outer wall of said neck-like projection and being provided with external threads.

2,661,114
BREADBOX
Louis H. Barnett and Harris Brin, Fort Worth, Tex., assignors to Loma Plastics, Inc., Fort Worth, Tex., a corporation of Texas
Application August 10, 1951, Serial No. 241,230
3 Claims. (Cl. 220—4)



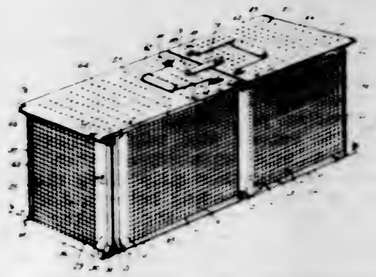
1. A plastic bread box or the like comprising a rectangular case having a substantially flat bottom secured to the bottom of said case, said case including arcuate upper forward corners, an opening in said case between said upper forward corners and having the upper and lower edges thereof parallel with each other, and with the lower edges spaced from the bottom of said case, upwardly directed plastic bearings having relatively large arcuate bearing surfaces, said bearings being supported by said bottom on each side thereof interiorly of said case and equally spaced from the front edge of said base, the radial centers of said bearings being spaced at a vertical distance from said bottom substantially the same distance as said lower edge of said opening is spaced from said base, relatively large disk-like journals received within said bearing surfaces, retaining flanges integral with the inner peripheries of said arcuate bearings and extending toward the axis thereof and engaging the opposing flat peripheries of said disk-like journals, an arcuate plastic cover positioned within said opening, and substantially triangular arms integrally connected with the ends of said cover and with said journals.

2,661,115
KNOCKDOWN FUEL TANK
Wendell S. Fletcher, South Pasadena, Calif., assignor to Fletcher Aviation Corporation, Pasadena, Calif., a corporation of California
Application July 10, 1950, Serial No. 172,960
9 Claims. (Cl. 220—5)



5. A smoothly streamlined auxiliary wing-tip fuel tank of knock-down construction free from external peripheral projections comprising a plurality of tank sections joined together with girth parting lines, said tank sections having girth reinforcement members inside their peripheral walls positioned to lie on opposite sides of each parting line, said reinforcement members being adapted for sealing cooperation along the parting lines, said tank sections including an intermediate tank section and two end tank sections, each of said end tank sections being tapered at one of its ends and being dimensioned at the other end to match one end of said intermediate tank section, at least one of said end tank sections having an intermediate portion of uniform cross-section merging at one end with the tapered portion of the same end tank section and terminating at its other end in a girth shoulder stepping up the cross-sectional dimension of the same end tank section, said intermediate portion of the end tank section being dimensioned to telescope into the girth reinforcement member at one end of said intermediate tank section whereby the dismantled tank sections may be nested together with said one end tank section nested in said intermediate tank section and the other end tank section nested in said one end tank section to form a compact dismantled tank assembly.

2,661,116
COLLAPSIBLE FISH BOX
Glen E. Bombarger, Milwaukee, Wis.
Application June 26, 1950, Serial No. 170,300
7 Claims. (Cl. 220—6)

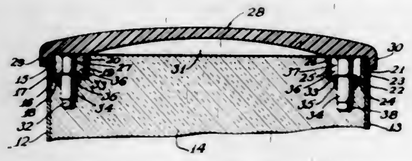


1. A collapsible fish box or the like comprising opposite end members, pairs of side members pivoted in a plane intermediate the two end members, upper and lower wire rod frames defining each member, a wire mesh fabric welded to the frame members, vertical metal plates attached to the end members and side members and welded to the frame members, said rod frames having eyes and angular bent ends at opposite ends of the rods, the side members being pivoted to the opposite end members, the upper and lower frame rods of each end member having one eye at diametric opposite corners while the other eye is laterally spaced with respect to the opposite diametric corners, pairs of top and bottom closure plates pivoted respectively adjacent horizontal upper and lower frame rods, the bottom plates pivoting in open position in proximity to the opposite end members, the top closure plates pivoting in open position to overlie the bottom sections, the side members folding to internested position when the box is collapsed, handle members on the top sections adjacent the opposed ends thereof whereby the box can be carried in inverted collapsed condition, with its walls vertically disposed, and latch means detachably connecting said bottom plates whereby to prevent collapse of the box.

2,661,117
BREAKER STRIP CONSTRUCTION
Ralph E. Wallenbrock and John J. Voda, Evansville, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application February 28, 1950, Serial No. 146,659
5 Claims. (Cl. 220—9)

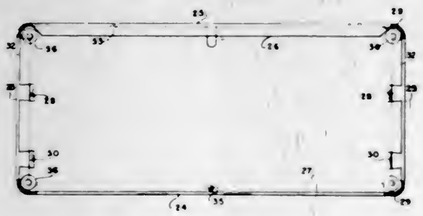
4. In a refrigerator cabinet, the combination of: spaced apart walls having insulating ma-

terial disposed therebetween and being formed to define a door opening, said walls terminating in spaced apart edge portions peripherally of the door opening, said edge portions being bent inwardly toward each other to form a channel along each wall, each of said channels having a pair of legs connected by a web portion having apertures therein, the terminal free ends of said legs of each channel being in a common plane and in alignment with each other, tubular clip members secured in said apertures, a breaker strip connecting said walls, said breaker strip having its edges formed to provide a pair of lips, each of said lips being positionable to overlap a respective wall, said breaker strip further having a



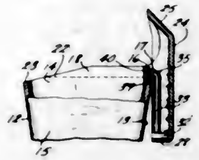
flat portion adjacent each lip on one side thereof, each of said flat portions being adapted to bridge a respective channel and abut the terminal free ends of the legs thereof, said flat portions having cylindrical projections depending therefrom adapted to extend into said channels and be press-fitted into engagement with said clip members, said breaker strip being molded with transverse ribs extending between the flat portions for strengthening the breaker strip, and sealing means cooperable with said walls and breaker strip for hermetically sealing the space between said walls, said means including sealing material contained within and substantially filling said channels and contacting said flat portions.

2,661,118
HOUSING CLOSURE
Ralph R. Bennighof, Ashland, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 25, 1950, Serial No. 175,753
5 Claims. (Cl. 220—24)



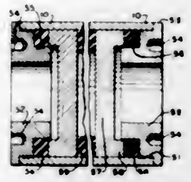
2. A sheet material housing comprising a body member open at one end and having a plurality of side walls including a pair of oppositely disposed walls and a third wall connecting said oppositely disposed walls, each of said walls having an inwardly disposed flange at said open end, and a flexible cover member for said open end conforming substantially in size and shape to the cross-sectional area included by said side walls, said cover having a pair of oppositely disposed edges and a third edge connecting said oppositely disposed edges, said opposite edges having integral tongues disposed beneath the flanges of said opposite walls and said third edge being disposed beneath the flange of said third wall.

2,661,119
CONTAINER AND CLOSURE THEREFOR
Newton E. Spiess, Jr., Oakdale, Islip, and Edward M. Gropen, East Northport, N. Y., assignors to National Dairy Research Laboratories, Inc., Oakdale, Islip, N. Y., a corporation of Delaware
Application September 24, 1952, Serial No. 311,222
7 Claims. (Cl. 220—38)



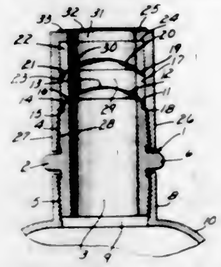
1. A container and closure therefor comprising a container body having front and rear walls, at least one aperture in the rear wall of the container body, said aperture having a notch in at least one side thereof, and a closure for the container having a flange on the bottom side thereof adapted to be received in said aperture, said flange having a rib thereon adapted to be received in said notch and having a forward portion thereof disposed at an angle to a rearward portion thereof, whereby said closure may be tilted to a substantially vertical position when opened.

2,661,120
CLOSURE PLUG FOR A TUBULAR CASING
Joseph F. G. Miller, Plandome, N. Y.
Application May 25, 1950, Serial No. 164,123
3 Claims. (Cl. 220—39)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Apparatus for sealing the ends of a tubular casing against the ingress of foreign material comprising, in combination, a pair of mutually spaced disk members mounted within said casing and spaced from the ends thereof, a tubular spacer mounted within the casing and between said disk members for maintaining the mutual spacing of said disks, said disks having outwardly directed longitudinally extending circumferential flanges adjacent the periphery thereof, a pair of cap members threadedly engaging the inner surface of said casing and having radial lips respectively engaging the ends of said casing, the circumferential edge of each of said lips being flush with the outer surface of said casing, said cap members each having an annular recess forming a shoulder and an annular surface at the inner end thereof, portions of said cap members extending into overlapping relation with the longitudinal flanges of said disks, and compressible gaskets respectively mounted in the recesses of said caps and compressed between said shoulders and said longitudinal flanges and between the annular surfaces of the cap members and the inner wall of the casing when said lips engage the ends thereof.

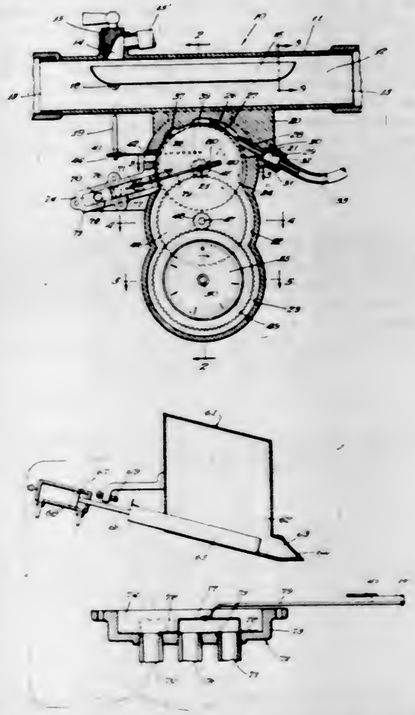
2,661,121
SAFETY PRESSURE DEVICE
Robert S. Coffman and Howard N. Simms, Kansas City, Mo., assignors to Black, Sivalls & Bryson, Inc., Kansas City, Mo., a corporation of Delaware
Application August 23, 1950, Serial No. 180,938
4 Claims. (Cl. 220—89)



1. A safety device including a tubular member having an annular seat at one end encircling an axial opening extending through said member and having an exterior connection means, a diaphragm having a marginal portion engaging the annular seat, a spacing ring having a clamping face at one end engaging over said marginal portion of the diaphragm and having an annular seat at the other end, a supplementary diaphragm engaging said last named seat, a clamping ring having a clamping face engaging the marginal portion of the last named diaphragm, said seats and clamping faces being extended one within the other when engaged with the marginal portions of the diaphragms to maintain coaxial alignment of said rings and diaphragms with the tubular member, and a cap having a cylindrical wall loosely encircling the spacing and clamping rings and having an inturned flange engaging over the clamping ring, said cap having a connection means engaging with the connection means of the tubular member to effect clamping action on the diaphragms through said rings when the cap is applied to said tubular member.

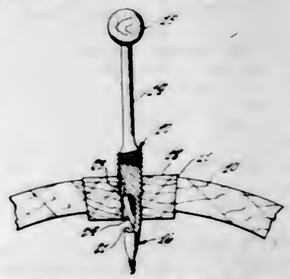
2,661,122
MILK MEASURING AND MATERIAL FEEDING DEVICE
Walter R. Peterson, Hinsdale, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 29, 1948, Serial No. 67,893
9 Claims. (Cl. 222—32)

2. A combined fluid measuring and dispensing device comprising a casing having a liquid inlet opening, a trough hingedly connected within said casing for receiving liquids from said inlet opening, said trough including a weir, a ratchet wheel, a pawl engageable with said ratchet wheel, a cylinder having a piston for reciprocation therein, means connecting said piston to said pawl, pressure means arranged for reciprocating said piston whereby said pawl is movable in a fixed working stroke for rotating said ratchet a fixed distance, shielding means movable between said pawl and said ratchet for limiting the distance of the working stroke thereby limiting the distance of rotation of said ratchet, means for moving said shielding means including linkage connected to said shielding means and said trough whereby movement of said trough in response to the flow of liquid therethrough is imparted to said shielding means, a dispensing mechanism including a material receptacle, a reciprocating plunger movable within said container for dispensing materials, and means for reciprocating said plunger in relation to the movement of said ratchet wheel, said means including a pressure mechanism connected to said



plunger, a valve mechanism for regulating pressure to said mechanism, and linkage means connected to said ratchet wheel for controlling said valve mechanism whereby the quantity of material dispensed is related to the flow of liquid through said trough.

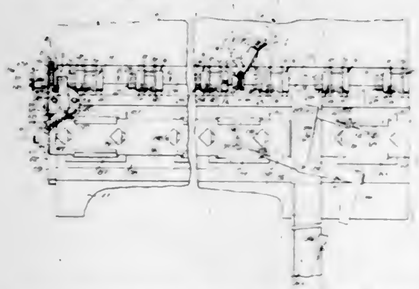
2,661,123
BARREL BUNG BIT HAVING A PASSAGE FOR PERMITTING FLOW OF LIQUID
Joseph J. Guarino, New York, N. Y.
Application November 13, 1951, Serial No. 256,045
1 Claim. (Cl. 222—91)



A barrel bung bit comprising a shank adapted to be rotated on its axis, the lower end of said shank having a gimlet thereon, said gimlet having a generally longitudinally extending passage extending from the tip thereof to the upper end thereof, said shank having a cylindrical body

portion positioned thereon above said gimlet and extending for a distance from the upper end of the gimlet, said body portion having substantially the same diameter as said upper end of the gimlet, said body portion having screw threads thereon of greater diameter than said first-named diameter, said body portion including said screw threads having a longitudinal groove therein communicating with the upper extremity of said gimlet passage, said groove having the upper end thereof positioned between the upper and lower ends of said body, the cross-sectional area of said groove being constant and being smaller than the cross-sectional area of the upper extremity of the gimlet passage.

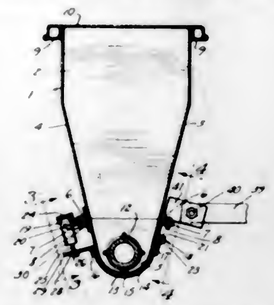
2,661,124
SEEDER AND PLANTER APPARATUS
Fortunato S. Ajero, Chicago, Ill., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application July 25, 1950, Serial No. 175,766
7 Claims. (Cl. 222—177)



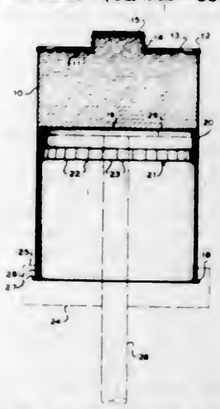
2. The combination with a fertilizer spreader including a wheel supported hopper having a discharge port therein, an axle shaft, a shutter plate and means for opening and closing said shutter plate, of seeder apparatus comprising a seed bin having a discharge opening therein, a housing positioned below said seed bin and having a passageway aligned with said discharge opening, said housing further having a cylindrical bore therethrough intersecting said passageway, a shaft extending through said cylindrical bore and a feed roll secured thereto, said cylindrical bore disposed relative to said passageway to position said feed roll to one side of said passageway, whereby a discharge throat is formed, a chute positioned to receive seeds dispensed through said discharge throat, and means for adjusting the position of said chute relative to said feed roll to vary the effective discharge area of said discharge throat, a member driven by said axle shaft of said spreader, releasable clutch means between said member and said feed roll shaft, and clutch actuating mechanism drivably connected to said shutter plate to engage said clutch means upon moving said shutter plate to uncover said discharge port.

2,661,125
DETACHABLE MOUNTING FOR RATE CONTROL SLIDE IN FERTILIZER SPREADERS
Ebenhard S. Gandrud, Owatonna, Minn.
Application November 4, 1950, Serial No. 194,161
2 Claims. (Cl. 222—177)

2. In a device of the class described, a hopper comprising opposed side walls, end walls, and a cross-sectionally U-shaped bottom portion, means for supporting the hopper in spaced relation to the ground, said bottom portion having a plurality of delivery apertures in spaced relationship longitudinally of the hopper, a longitudinally movable valve-acting gate plate normally engaging the bottom of the hopper and having longitudinally spaced apertures registrable with the apertures in said hopper bottom portion, and means mounting said gate plate on the hopper bottom portion for longitudinal sliding movements and for swinging movements with respect to said hopper bottom portion about an axis extending longitudinally of said hopper, said means comprising cooperating hinge elements on one side of the hopper bottom portion and the adjacent side edge portion of the gate plate and secured together for relative sliding movements longitudinally of the hopper, and cooperating latch elements on the opposite side edge of said gate plate and the adjacent side of the hopper bottom portion, the latch element on said gate plate being slidable with respect to the latch element on the hopper bottom portion in a direction longitudinally of the hopper when said latch elements are in latching engagement.

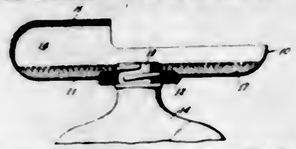


2,661,126
DISPENSING CONTAINER HAVING A SLIDABLE BOTTOM FORMING A FOLLOWER
Alvin C. Spencer, Corona Del Mar, Calif.
Application May 8, 1952, Serial No. 286,848
10 Claims. (Cl. 222—386)



1. A container and dispenser for printing ink comprising a container having a cylindrical body, a top secured to said body in fluid-tight relation, a strengthening rib formed in said top, a neck extending from said top centrally thereof, a cap removably secured to said neck, a bottom slidably disposed in said body, said bottom having a continuous cylindrical wall of slightly less diameter than the inner diameter of said body, an outwardly flared skirt integral with said cylindrical wall and extending from the lower edge of said cylindrical wall, spaced slits in said skirt providing a plurality of resilient fingers, said fingers slidably engaging the inner surface of said body and compensating for irregularities thereof, said fingers permitting inward movement of said bottom to eject the contents of said container, outward movement of said bottom being prevented by the biting engagement of the lower edges of said fingers with the inner surface of said body and a bead on the lower end of said body to facilitate securing the same to a dispensing device.

2,661,127
DISPENSING RECEPTACLE TO BE MOUNTED TO THE NECK OF A CONTAINER HOLDING A LIQUID TO BE DISPENSED
Ithiel Charles Richards, Los Angeles, Calif.
Application January 27, 1950, Serial No. 140,942
11 Claims. (Cl. 222—424.5)



1. A receptacle of the type described, comprising: a shallow, trough-like body member having an opening formed in the lower wall thereof; resilient means mounted in said opening and having an aperture adapted to receive the upper end of the neck of a container holding a supply of the liquid to be dispensed to mount said body member to said container with the neck thereof protruding into said body member; wall means carried on one side of said body member and extending upwardly thereover to form therewith a cup-like element arranged substantially normal to the longitudinal axis of the neck of the container when received within said annular member, whereby tilting of said container causes the liquid held thereby to flow into said cup-like element, erection of said container causing the liquid held by said cup-like element to partially fill the receptacle; said body member being enlarged at the side opposite said cup-like element to form a bowl-shaped portion into which a relatively large applicator may be inserted.

2,661,128
TAMPER AND SEAL PROOF FLEXIBLE POURING SPOUT
Irvin H. Rieke, Auburn, Ind., assignor to Rieke Metal Products Corporation, Auburn, Ind., a corporation
Application February 18, 1949, Serial No. 77,255
1 Claim. (Cl. 222—529)



A sealing closure for a container having an opening therein defined by an upstanding exteriorly grooved flange, including a flexible self-restoring and resilient tubular pouring spout having an enlarged anchoring end comprising an outwardly-extending gasket portion seatable over said flange, a locking ring U-shaped in cross section having outer and inner walls carrying a bridging wall therebetween, the lower edge of said outer wall being inwardly turned into clamping engagement with the groove of said flange, said bridging and inner walls engaging and compressing said gasket portions into sealing engagement with said flange, said spout being invertable about its gasket portion to nest within itself inside the container and extend outwardly therefrom into pouring position, a metal tamper-proof seal mounted to extend over said spout when nested inside the container having an annular cupped portion formed adjacent its periphery terminating in an upwardly extending peripheral edge adapted to engage and wedge against the inner wall of said locking ring, and a closure for said spout adapted to bear against the underside of said metal tamper-proof seal urging it upwardly into its said wedging engagement with said locking ring.

2,661,129
GOLF BALL HOLDER
Harold E. Seaton and Chester H. Baker, Shelby, Ohio
Application May 24, 1949, Serial No. 95,022
3 Claims. (Cl. 224—5)

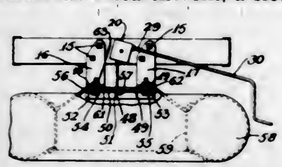


1. In a golf ball holder, the combination of a mounting clip adapted to hook over a belt or the like, and a pair of flat ball retaining rings projecting outwardly from said mounting clip in substantially parallel vertically disposed relation for enabling the ball to be snapped into retained position between said rings by movement therebetween in a substantially horizontal direction toward said mounting clip, said rings being of substantially square cross section, said clip comprising a front portion and a back portion joined together at the top of the clip and separated at the bottom to form an open slot adapted to pass down over the top edge of the belt, the lower inner edge of said front portion being rounded to form a flared entrance to the lower end of said slot, said slot being normally narrower at the bottom than at the top to increase the grip against the lower portion of the belt, and a forwardly projecting retaining flange at the lower edge of said back portion adapted to hook under the lower edge of the belt to prevent the holder from creeping upwardly on the belt.

2,661,130
SPARE TIRE AND WHEEL CARRIER
John R. Evans, Fort Wayne, Ind.
Application April 15, 1950, Serial No. 156,102
6 Claims. (Cl. 224—42.22)

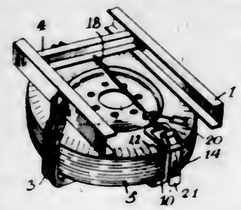
1. A spare tire and wheel carrier for a vehicle having a frame including a pair of laterally spaced, longitudinally extending members; a cross frame member extending between said longitudinally extending members; supporting means rigidly fastened to said cross frame member, said means including a pair of laterally spaced brackets, said brackets each having a

vertically disposed aperture formed therein; carrier means adapted to removably mount a spare tire and rim, said carrier means comprising a horizontally disposed bar; elevating means mounted on said cross frame member for moving said carrier means vertically with respect to said cross frame member from a lower position in which the tire and rim may be mounted or dismounted on the carrier means to an upper position adjacent said supporting means, said elevating means comprising a housing having a rotatable shaft mounted therein, a sleeve carried



by said shaft having a worm formed thereon, a shear pin drivingly connecting said sleeve and shaft, a gear rotatably mounted within said housing meshable with said worm, a cable drum rigidly attached to said gear, and a braided strap having one end connected to said cable drum and the other end fastened to said carrier means; centering and securing means carried by said carrier means engageable with the apertures of said brackets and portions of said rim to support the tire and rim in its upper position, said means including a pair of laterally spaced, vertically upwardly projecting studs.

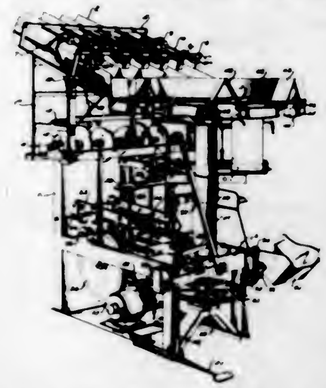
2,661,131
SPARE TIRE CARRIER
Rene Roy, Plessisville, Quebec, Canada
Application May 19, 1951, Serial No. 227,129
2 Claims. (Cl. 224—42.26)



1. A lock for a tire carrier comprising a fixed member, a clamping member pivoted at one end to said fixed member, a locking plate pivoted to the other end of said clamping member, a shackle on said clamping plate, said locking plate having a slot positioned to receive said shackle, a chain extending from said fixed member, and a hook pivoted to said locking plate and adapted to lock with said chain.

2,661,132
BAG FILLING MACHINE WITH ROTATABLE BAG CARRIER HAVING EXPANDABLE AND CONTRACTABLE BAG ENGAGING FINGERS
Edward E. West, Richmond, Va., assignor to The Chase Bag Company, New York, N. Y., a corporation of Delaware
Application September 24, 1948, Serial No. 51,041
9 Claims. (Cl. 226—2)

1. In a bag filling machine of the type described wherein a bag is filled with a predetermined number of articles of selected sizes and weights and after being filled the mouth of the bag is closed by the drawstring thereof with the drawstring thereafter being secured to keep the mouth of the filled bag closed, the combination which includes a rotatable circular bag carrier, a plurality of bag holders supported by said bag carrier at its outer periphery, each of said bag holders defining an opening and being movable into and out of engagement with the mouth of a bag placed thereon and being adapted to support said bag in open mouthed position beneath said opening, a plurality of delivery chutes having their discharge ends located at spaced points about the outer periphery of said bag carrier and adjacent the openings defined by a plurality of the bag holders whereby articles may be simultaneously delivered from a number of said chutes to a plurality of bags carried by said bag carrier, a drive connected to said circular bag carrier for driving said carrier continuously with the bags carried passing beneath said delivery chutes, operating levers having connections to each of the bag holders for moving the same into and

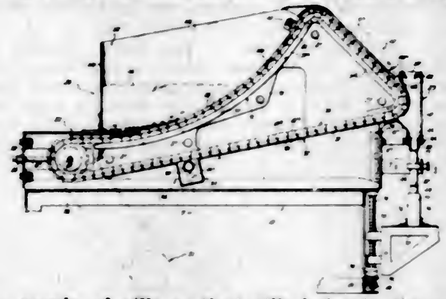


out of engagement with the bags placed thereon, a segment of track pivotally mounted beneath said bag carrier at a point in advance of said delivery chutes, said segment of track being engageable with the operating levers for the bag holders to move said bag holders into engagement with the mouth of a bag placed thereon, a semi-circular section of track supported in fixed position beneath said bag carrier opposite the delivery chutes and adjoining said pivoted segment of track, said semi-circular portion of track engaging with the levers and holding said bag holders in engagement with the bags during the movement of the bag carrier and the bags carried thereon beneath the delivery chutes, and a sloping section of track supported in fixed position beneath said bag carrier and adjoining said semi-circular section of track, said sloping portion of track engaging with the operating levers for the bag holders after the bags held thereon have been filled to retract said holders and release the filled bags therefrom.

2,661,133
COUNTING AND DISPENSING MACHINE
Ernest C. Clement, Oak Park, Ill., assignor, by mesne assignments, to United States Automatic Box Machinery Company, Inc., Boston, Mass., a corporation
Application April 30, 1951, Serial No. 223,800
6 Claims. (Cl. 226—2)

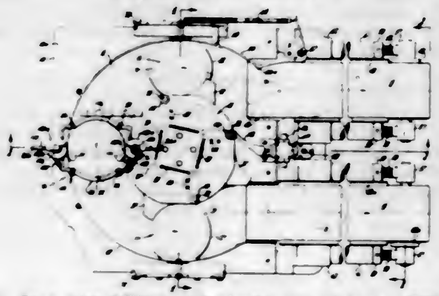
1. A pill dispensing machine of the class described comprising a plurality of transversely extending pill conveying slats having pill pockets therein, said pill pockets being formed by

openings extending part way through said slats, a hopper adapted to contain a supply of pills, means moving the slats through the hopper first in a substantially horizontal path and then in an upwardly inclined arcuate path and through



the supply of pills so that pills lodge in the pill pockets, and means discharging the pills from the slats including directing chutes to direct the pills to a predetermined position for depositing into a container.

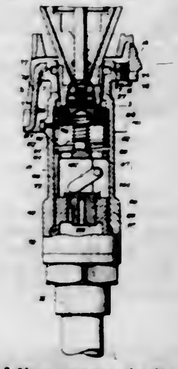
2,661,134
FILLING AND CLOSING MACHINE
Leonard McGihon, San Leandro, Calif., assignor to King Sales & Engineering Co., San Francisco, Calif.
Application November 22, 1947, Serial No. 787,502
3 Claims. (Cl. 226—75)



1. In a can filling and closing machine, a filling station including a filling valve, a lid station including a lid feeder, a closing station including a cyclically operable lid seamer and normally inactive drive means therefor, a turret having a series of can supports for travelling successively through said stations, means for effecting an intermittent drive of said turret to provide successive dwells in the motion thereof with one of said can supports at each of said stations, and means for initiating operation of said valve, said lid feeder and said lid seamer during each dwell in the movement of said turret, said lid seamer being timed in its operation to complete a lid seaming operation during one of said dwells in the movement of said turret.

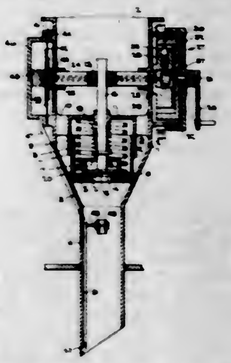
2,661,135
APPARATUS FOR DISPENSING LIQUIDS
John Fraser, Tolworth, Surbiton, England, assignor to Avery-Hardoll Limited, Tolworth, Surbiton, England
Application December 11, 1951, Serial No. 261,069
Claims priority, application Great Britain December 14, 1950
7 Claims. (Cl. 226—125)

5. In liquid dispensing apparatus, the combination of a liquid dispensing unit and a supply unit for filling the said dispensing unit, said dispensing unit and supply unit having mutually engaging interlocking means, the liquid dispensing unit comprising a cylinder, a piston mounted in said cylinder and movable between two terminal positions therein, means acting on the piston to urge it towards one terminal position at one end of the cylinder, a valve to close an orifice in the said end of the cylinder, resilient means acting on said valve to close it, manual valve opening means, means to hold said valve in the open position, and means carried by the piston to



hold the valve holding means in its operative position at all positions of the piston intermediate its terminal positions, and the said supply unit comprising a source of liquid under pressure, a socket, conduit means connecting said socket to said source, and valve means in said socket, adapted for opening by movement of the valve in the dispensing unit to the open position and interengaging elements on the valve in the dispensing unit and in said socket, said interengaging elements co-operating when the dispensing unit is interlocked with the supply unit to prevent disengagement of the interlocking means.

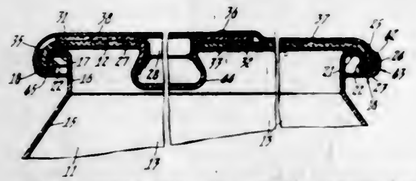
2,661,136
AUTOMATIC SHUTOFF LIQUID DISPENSING NOZZLE
Albert Jacob Huisman, The Hague, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application November 8, 1950, Serial No. 194,641
Claims priority, application Netherlands November 15, 1949
13 Claims. (Cl. 226—127)



1. In an automatic shut-off liquid dispensing nozzle having inlet means for liquid and a spout

adapted to be inserted into a container to be filled, the combination of a pair of passageways separately connecting the inlet means and spout; individual valve control means for said passageways, one of said passageways and the valve therefor jointly having limited dimensions to supply liquid to said spout only as a stream with a cross section smaller than that of said spout; means for selectively opening said valve control means; and automatic shut-off means for both of said valve control means comprising a vacuum-actuated valve shut-off mechanism adapted to shut both said valves upon application of a vacuum thereto, vacuum-creating means connected to said shut-off mechanism disposed to create a vacuum when liquid flows through either of said passageways and vent means for relieving said vacuum and adapted to be rendered inoperative upon the filling up of said container.

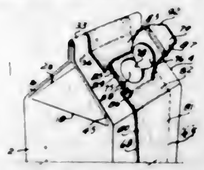
2,661,137
CONTAINER
George C. Reid and Samuel S. Jacobs, Brooklyn, N. Y., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Application June 8, 1949, Serial No. 97,841
4 Claims. (Cl. 229—7)



3. A fibre container for liquids, comprising a tubular body having a marginal edge portion at its upper end extending outwardly and downwardly and thence upwardly to provide an annular depending channel surrounding said body, a substantially flat inner end closure member having a filling and dispensing opening therein and having a peripheral depending flange secured in said channel in an end seam, and a substantially flat and smooth outer imperforate end member terminating in a curved depending peripheral flange of single thickness, a fixed portion of said outer end member flange being disposed in said channel and secured between the opposed walls thereof in said end seam, an integral movable portion of said outer end member including its peripheral flange being hingeable outwardly to gain access to the container contents through said opening, said end seam being located below the top surface of said end member to cause the smooth surface of said outer end member to shed water and the like over said end seam, and a hinged closure element for closing and sealing said filling and dispensing opening in said inner end closure member.

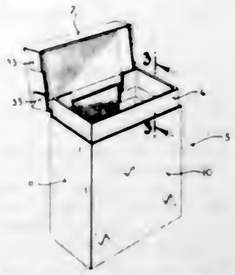
2,661,138
CONTAINER
Gordon Leonard, Kansas City, Mo.
Application March 16, 1949, Serial No. 81,737
2 Claims. (Cl. 229—17)

1. A container of the character described including a tubular body formed of a sheet like blank having underlapping and overlapping ends to form a side seam of increasing width from the bottom toward the top of said body to provide a relatively wide lap across the top of said body and a relatively narrow lap at the bottom of said body, said underlapped end having a pour opening within the relatively wide upper portion of the side seam and spaced inwardly from edges of said ends, said overlapped end having an edge face forming a substantially right angle with the surface of the underlapped end and having transverse lines of perforations extending from said edge face inwardly of said overlap at the upper and lower sides of the pour opening to termination points inset from a corresponding edge of the underlap to provide a transverse tear flap in the overlap in covering relation with the pour opening, adhesive between the overlap and underlap for closing said side seam, said adhesive being spaced below the lower line of perforation



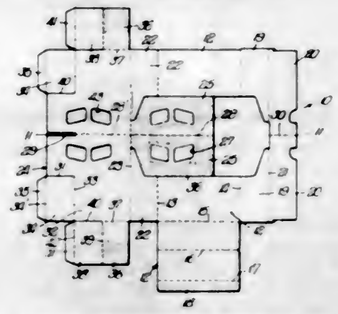
and above the upper line of perforation and completely securing the underlap along the entire edge thereof and said adhesive securing the overlap to the underlap along the entire edge thereof with the exception of the space between said lines of perforations thereby providing a finger engaging portion for said tear flap at said edge face of the overlapped end, and said adhesive including a relatively narrow stripe portion spaced inwardly of said edge face to complete a seal completely surrounding the pour opening while leaving an unattached tab portion between the finger engaging portion and said narrow stripe of said adhesive.

2,661,139
CONSUMER TYPE CONTAINER
Lewis C. Brooks, Milwaukee, Wis., assignor of one-third to Ira Milton Jones, Milwaukee, Wis.
Application February 10, 1950, Serial No. 143,423
6 Claims. (Cl. 229—23)



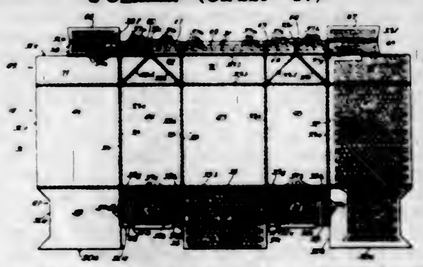
1. A consumer type container having a tubular body comprising integral front and side walls and a separate back wall and having a flanged cap hinged to the back wall and which telescopes over a neck on the body, characterized by the fact that said neck comprises a plurality of parallel adjacent strips integral with the body walls with the exception of the back wall, the strip nearest the body walls being bent down from the upper edges thereof to overlie the inner faces of the body walls, the next adjacent strip being bent up from the bottom of the first strip and extending above the junction of the first strip with the body walls, and the next adjacent strip being bent down from the top edge of the second strip to overlie said second strip and extend therebeyond into overlying engagement with the body walls to which said last strip is adhered.

2,661,140
ARTICLE CARRIER
Edwin L. Arneson, Morris, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application August 4, 1951, Serial No. 240,320
6 Claims. (Cl. 229—28)



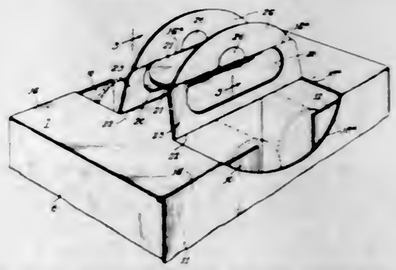
1. An article carrier fabricated from flexible paperboard stock and comprising opposed pairs of side and end walls, a bottom extending between said side walls, a longitudinal partition disposed medially between said side walls and hinged to one of said end walls, said partition comprising a longitudinally extending panel having a cross partition element connected thereto on an integral vertical hinge located in inwardly spaced relation to an end thereof, which partition element is hingedly secured to a side wall, and a further cross partition unit integrally hinged to the bottom margin of the longitudinal partition panel, said further cross partition unit including a panel element folded upwardly about said bottom hinge to said longitudinal partition panel and disposed in face to face relation thereto, and a cross partition panel integrally hinged at one end by a vertical crease to said upwardly folded panel element and hingedly secured at its opposite end to said side wall, said last named cross partition panel being separated by a cut from said bottom margin of said longitudinal partition panel.

2,661,141
LAMINATED CARTON
Julius A. Zinn, Jr., Chicago, Ill.
Original application February 3, 1948, Serial No. 5,917. Divided and this application February 3, 1948, Serial No. 5,918
2 Claims. (Cl. 229—37)



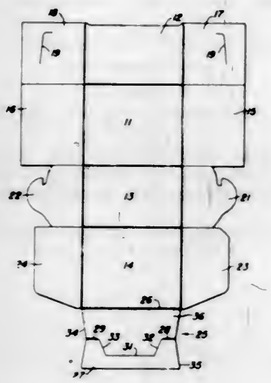
1. A laminated carton, comprising a paper lamination provided with score lines dividing the blank into panels, a non-porous liner lamination covering one side of said paper lamination and provided with parts which are in, facing engagement, at least a pair of said parts of said liner lamination having openings therein which are in registry, whereby the overlapped panels of said paper lamination which are covered by said liner lamination parts are exposed to each other through said registering openings, an adherent securing said liner lamination to one side of said paper lamination only over areas marginally spaced from said score lines and in areas of said paper lamination not exposed by said perforations, and an adhesive extending through said registering openings and adhering together those portions of said paper lamination which are exposed through said registering openings.

2,661,142
SHIPPING CONTAINER WITH CARRYING HANDLE
Jacob Wilbur Hendrickson, Jr., Mercer Island, Wash., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application September 10, 1949, Serial No. 114,945
1 Claim. (Cl. 229—37)



In a hand carried type of carton composed of a single piece of blank material such as paperboard so cut and scored that when folded it includes a flat continuous one piece upper wall and connected adjacent wall portions extending downwardly at each of the opposite side edges of the upper wall, each of said adjacent wall portions being joined at its upper edge to a side edge of said upper wall along a scored line dividing the upper wall from the adjacent wall portions, a handle construction comprising, a pair of similar displaceable handle forming elements each formed from both the upper wall and an adjacent wall portion and each joined to said upper wall along a handle forming scored line substantially parallel to the said side edges of such wall and in spaced relation to the other handle forming score line, each of said handle forming elements including a first portion formed from the upper wall and a second portion formed from one of said adjacent wall portions and divided by a scored line initially continuous with the scored line between the upper wall and the adjacent side wall portion, each of said first portions having a displaceable handle spacing flap formed wholly within its bounds, each of said flaps being hinged to its said handle forming element along and by a part of the scored line between the said portions of such handle element, each of said handle spacing flaps being displaceable from its connected handle element toward the other handle element and into lapping relationship with the other flap with the free edge of the upper of said lapped flaps in abutting relationship with the said other handle element, the two handle elements being folded upwardly about the scored lines connecting them with the upper wall, and being spaced apart at the bottom by the portion of the upper wall lying between the hinge lines of the two handle elements, and being spaced apart above the level of the upper wall by said lapping flaps.

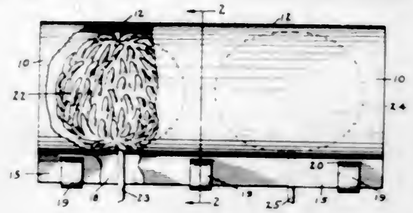
2,661,143
CARTON
William H. Inman, Newark, N. Y., assignor to Bloomer Bros. Company, Newark, N. Y., a corporation of New York
Application July 8, 1950, Serial No. 172,633
2 Claims. (Cl. 229—37)



1. A carton comprising a one-piece blank, cut, scored and folded to form bottom, front and back walls and a cover, end flaps on said walls and cover for closing the ends of the carton, the cover having at the free edge thereof a securing flap foldably hinged thereto along a score line therebetween and adapted to be folded over the upper portion of the front wall in overlapping relation and adhesively secured thereto, said securing flap having a pair of score lines extending longitudinally inwardly from the opposite ends thereof, a slit connecting the inner ends of said score lines and extending therebetween with a major portion thereof located in a position spaced transversely outwardly from a line connecting said score lines, to provide a flap portion folded inwardly about said score lines and a tab portion extending outwardly from said score lines to provide a free grasping edge, said flap portion being adhesively attached to said securing flap and to said front wall to secure the same together and provide a discontinuity of fibrous structure at the adhesively attached edges of said flap portion and front wall for terminating surface peeling at said edges when the carton is opened by pulling the free grasping edge of said tab portion to detach said securing flap from said front wall.

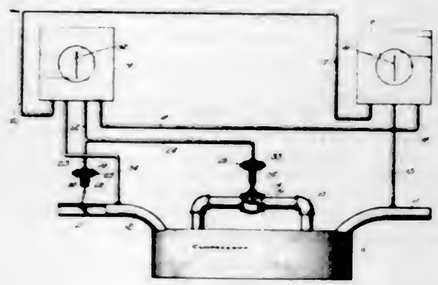
2,661,144
FLOWER SHIPPING CASE
Merchant U. Morris, Indianapolis, Ind.
Application January 31, 1951, Serial No. 208,811
1 Claim. (Cl. 229—87)

A device for holding flower blooms by their stems in spaced apart relation for shipping, comprising a generally cylindrical member open at both ends and split on one side along a longitudinal line thereof and flexibly hinged along a longitudinal line approximately one hundred eighty degrees from said split; a lip outturned from said member on each side of said split line having opposing parallel faces; a strip of resilient cushion material fixed along each of said lip faces; and individual spring clips spaced apart along said lips, each of said clips being generally U-shaped with outturned ends straddling said lips and compressively urging said lips to carry said strips one against the other; whereby the cylinder may be opened by hinging one side back along said hinged line, a bloom placed over



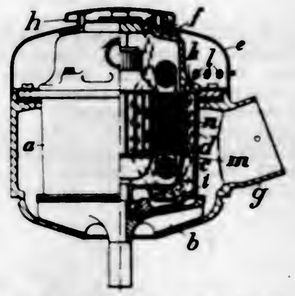
the other cylinder side with the flower stem extending across the resilient strip of that other cylinder side, the one side closed over the other side, and said clips engaged over said lips, one clip on each side of the stem.

2,661,145
ANTISURGE CONTROL FOR REFRIGERATION COMPRESSORS
Arnold H. Heineman, Chicago, Ill., assignor, by mesne assignments, to Guardite Corporation, Wilmington, Del., a Delaware corporation
Application March 11, 1947, Serial No. 733,799
4 Claims. (Cl. 230—22)



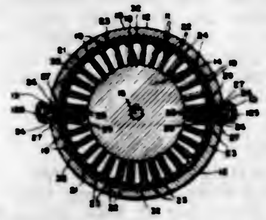
1. In a closed centrifugal compressor system including a compressor having a suction input and a pressure discharge, an anti-surge device comprising: a source of regulating fluid under pressure which is independent of the compressor system; regulating valve means; means connecting said valve means to said source of regulating fluid and to the compressor discharge whereby said valve means may pass regulating fluid at a pressure which varies within predetermined limits with the discharge pressure; a source of control fluid under pressure; suction pressure control means connected thereto and to the suction input of the compressor and means interconnecting said valve means and said control means, whereby pressure of regulating fluid from said regulating means and pressure dependent on suction pressure jointly cooperate within said control means to allow same to pass control fluid at a pressure which varies directly with changes in the difference between the suction pressure and the pressure of the regulating fluid; and valve means mounted in the suction input and under the control of said suction pressure control means to vary suction pressure directly in response to variations in control fluid pressure.

2,661,146
MOTOR PUMP UNIT AND COOLING MEANS
Edgar Albert George Hill, Wembley, and Norman Kenneth Lovatt, St. Albans, England, assignors to Rollnick & Gordon Limited, Wembley, England
Application May 22, 1950, Serial No. 163,344
Claims priority, application Great Britain July 8, 1949
1 Claim. (Cl. 230—117)



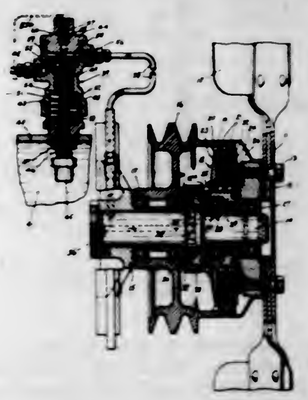
In a vacuum cleaner, a casing having inlet and outlet openings, a motor housing within said casing and cooperating with the casing to provide a passage between said openings sealed with respect to the interior of said motor housing, a motor within said housing, an impeller in said casing externally of the motor housing operably connected to said motor, said motor comprising a stator fixed to said housing and a rotor journalled in the housing, means defining a cooling air inlet to the interior of the housing at one end of said rotor, means defining a chamber between the stator and the housing and at least partially surrounding the stator comprising an internal motor housing wall on which said stator is mounted, an opening in said wall at the other end of said rotor, means defining an outlet from said chamber distinct from said passage, and a fan secured to said other end of said rotor within the housing located in said chamber adjacent said opening and operable to draw cooling air through said cooling air inlet and the interior of said motor in one direction and then force it through said chamber in the other direction to said chamber outlet.

2,661,147
BLOWER BLADE FASTENING DEVICE
James H. Anderson, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application January 19, 1949, Serial No. 71,659
6 Claims. (Cl. 230—133)



1. In combination with a casing, a peripheral groove in the inner surface of said casing, a rim overhanging said groove, blades having root portions of substantially less depth than the depth of said groove mounted loosely in said groove, inclined surfaces on the opposite sides of said root portions, spacers between said root portions having inclined surfaces complementary to and abutting the first said surfaces for forcing said root portions against said rim, and means mounted on said casing for forcing said spacers against said root portions.

2,661,148
THERMOSTATICALLY CONTROLLED FAN
Imre A. Englander, Indianapolis, Ind., assignor to Schwitzer-Cummins Company, Indianapolis, Ind., a corporation
Application April 12, 1951, Serial No. 220,647
10 Claims. (Cl. 230—271)



1. A thermostatically controlled fan, in combination with a source of fluid pressure and temperature variable medium, comprising a shaft, a fan and hub member rotatably mounted on said shaft, a driving member for rotating said hub member, a multiple disk clutch interposed between said members having adjacent friction disks slidably keyed to said members respectively, a spring interposed between one of said disks and one of said members to constrain said disks in clutching engagement, a cylinder surrounding said shaft adjacent said clutch having a fluid pressure line connected with said source of fluid pressure, a piston in said cylinder surrounding said shaft operatively connected with said one of said clutch disks, and a valve in said pressure line actuated by said temperature variable medium for admitting fluid pressure to and exhausting it from said cylinder to effect the clutching and declutching of said fan.

2,661,149
OUTDOORS COIN DEPOSITORY
David L. Shain, Harrisburg, Ill.
Application May 2, 1952, Serial No. 285,631
2 Claims. (Cl. 232—43.1)

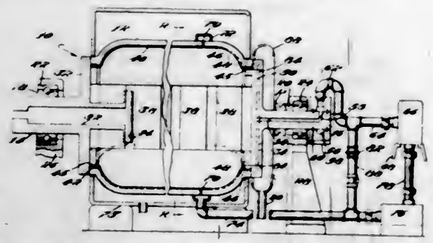
1. A coin depository for out-of-doors use and to aid authorized collectors in conveniently collecting one or more coins in payment for services rendered comprising a casing adapted to be fixedly mounted on a fixed support, said casing having vertical back, front, and side walls joined with each other in casing-forming relationship, said side walls having coin intake slots, said front wall being arcuate, embodying a correspondingly arcuate window and constituting the bottom portion of a coin delivery chute and having a coin discharge slot at its lower end in close proximity to said back wall, a leaf spring wholly confined

in said casing and situated between the side walls and having its upper end anchored on said back wall and its opposite lower end free and biased away from said back wall, terminating in close proximity to one longitudinal side of the discharge slot and cooperating with adjacent portions of the side walls in normally blocking and thus closing the discharge slot, and a key-accommodating barrel in said casing mounted for rotation between said side walls, the intermediate portion of said spring being situated between said barrel and back wall, one end of said barrel being open, opening through the adjacent side wall and being thus accessible for inserting and removing a barrel turning key, said adjacent side wall having opening means communicating with the co-



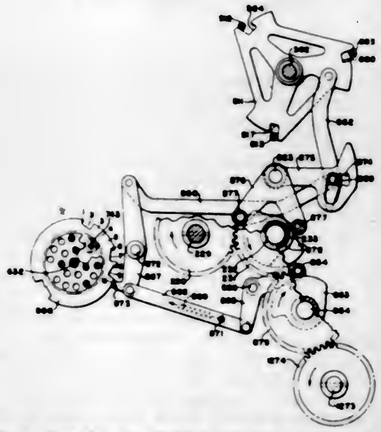
operating open end of said barrel, said barrel having at least one lengthwise slot communicating with the adjacent open end of said barrel and which may be turned to a position, by turning said barrel, to be bridged by a cooperating intermediate portion of said spring, whereby to permit a key having a laterally projecting finger to be inserted through the opening means and the adjacent open end of the barrel in a manner to allow the finger to project through the slot in the barrel and into engagement with the intermediate portion of said spring so that when the key and barrel are simultaneously rotated, flexing pressure will be exerted against the spring in a manner to move said free end of the spring toward the back wall and to swing said free end to a position uncovering said discharge slot.

2,661,150
CENTRIFUGE
William G. Abbott, Jr., Milford, N. H.
Application December 17, 1947, Serial No. 792,301
12 Claims. (Cl. 233—27)



1. A centrifuge comprising a rotatable container having an elongate portion adapted to receive a liquid to be separated into components of different specific gravity and separate discharge openings at different radii through which separated components of the centrifuged liquid may be discharged from said liquid receiving portion, an impervious diaphragm coextensive with the wall of said liquid receiving portion, said diaphragm being movable relative to said wall to displace the components from the liquid receiving portion through said openings and by movement to a given position to cover certain of the discharge openings while leaving others uncovered, and means for effecting movement of said diaphragm.

2,661,151
TOTALIZER ENGAGING MEANS
Mayo A. Goodbar, Everett H. Placke and Carl G. Falkner, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original application July 17, 1948, Serial No. 39,278. Divided and this application November 14, 1951, Serial No. 256,297
23 Claims. (Cl. 235—60.31)

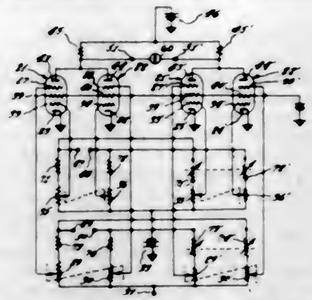


6. In a machine of the class described, the combination of a totalizer; actuators therefor; a frame to support the totalizer and movable to move the totalizer into and out of engagement with the actuators; an oscillating member; means connected to the totalizer frame and movable into engagement with the oscillating member; a first operating means to actuate said oscillating member in reset total-taking timing; a second operating means to actuate said oscillating member in sub-total-taking timing, said first and second operating means operable to simultaneously engage the totalizer with the actuators before the initial movement thereof, said first and second operating means operable at different timing for disengaging the totalizer from the actuators; a control member; and feelers coacting with the control member to selectively control the engagement of the oscillating member with one or the other of said operating means for disengaging the totalizer from the actuators in either reset or sub-total-taking timing.

2,661,152
COMPUTING DEVICE
Peter Elias, Cambridge, Mass.
Application December 18, 1948, Serial No. 66,093
18 Claims. (Cl. 235—61)

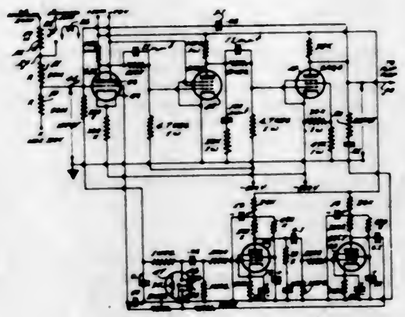
3. A computing apparatus for continuously determining the instantaneous value of the product of two independent variables, one variable being designated x and the other y, comprising:

two pairs of symmetrically connected electron discharge devices, each device having an anode, a cathode and at least two control grids; a first circuit means connecting each pair of anodes to a source of anode current; a second circuit means symmetrically connecting a pair of control grids in each pair of discharge devices for common energization by an electrical voltage whose instantaneous value is directly proportional to one of the independent variables x; a third circuit means symmetrically connecting another pair of control grids in each pair of discharge devices for common energization by an electrical voltage whose instantaneous value is directly proportional to the other independent variable y; a



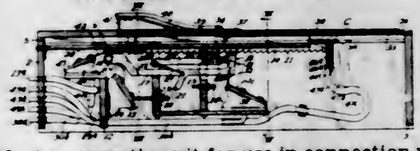
fourth circuit means connecting the four cathodes to complete the anode-cathode circuit of the discharge devices; and indicating means connected symmetrically intermediate the two pairs of anodes, whereby when two voltages, one being proportional to x and the other proportional to y are applied to the four pairs of control grids and are of suitably small magnitudes, the indication of the indicating means will be proportional to the expression $c_1xy+(c_2x^2y+c_4xy^2)+$terms of higher degree, thus being substantially proportional to the instantaneous product of the two variables, the other functions of the two variables being sufficiently small to permit their values to be neglected.

2,661,153
COMPUTING DEVICE
Arthur W. Vance, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 29, 1949, Serial No. 90,359
6 Claims. (Cl. 235—61)



1. In a device for producing a voltage proportional to the product of a multiplier x times a multiplicand y, the combination of a plurality of resistors; an integrator; means including the first of said resistors for supplying to the input of said integrator a current proportional to the value of x; a converter unit including (1) first and second fixed-voltage input leads of opposite polarity, (2) an output lead, (3) a separate pair of said resistors connected in series between said output lead and the first of said input leads and (4) a relay switch adapted to connect said second input lead to the common terminal of said series-connected resistors only when its operating coil is energized; means connecting the output lead of said converter unit to the input of said integrator; a multiplier unit having circuit components similar to those of said converter unit and having its relay coil interconnected with the relay coil of said converter unit; and means interconnecting the output of said integrator and said coils for establishing in the resistor systems of said units a conductance proportional to said value of x.

2,661,154
UNIT FOR TRANSLATING PUNCHED CARD DATA
George W. Carlson, Mountain Home, N. C., assignor to Robotyper Corporation, Hendersonville, N. C., a corporation of Michigan
Application June 8, 1951, Serial No. 230,661
29 Claims. (Cl. 235—61.11)

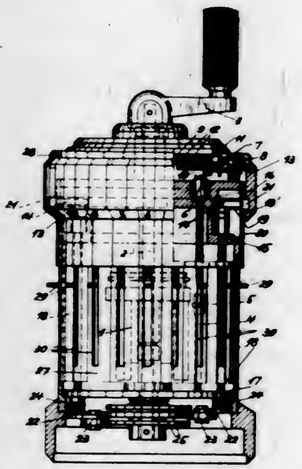


22. A pneumatic unit for use in connection with punched cards for effecting a sequence of operations according to openings in the cards, said unit comprising a card supporting table having a plurality of sets of a plurality of rows of holes, means for holding a punched card in prearranged position over said sets whereby a hole in the card may register with a hole in the table, a separate slide mounted to move under the table holes of each set, a hole in each slide arranged to register with holes of each row of each set, a flexible tube connected between each hole in each slide and a pneumatic operating mechanism to convey an air impulse admitted through openings in the card which register with openings in the slide to said pneumatic mechanism, a perforated roll and tracker bar for operation in conjunction with each slide, said roll and tracker bar having openings corresponding to the rows of holes in each slide, a flexible tube connection between the corresponding openings in the tracker bar and a pneumatic operating mechanism for the slides, said mechanism being responsive to an air impulse by registration of an opening in the roll with an opening in the bar to advance the slide one step for each impulse.

2,661,155
ACCUMULATOR-CARRIAGE AND DRIVE-SHAFT INTERLOCK FOR MINIATURE-TYPE CALCULATING MACHINES
Frans Mark, Perchtoldsdorf near Vienna, Austria, assignor to Curt Herzstark, Feldkirch, Vorarlberg, Austria
Application March 22, 1952, Serial No. 278,044
Claims priority, application Austria March 28, 1951
5 Claims. (Cl. 235—63)

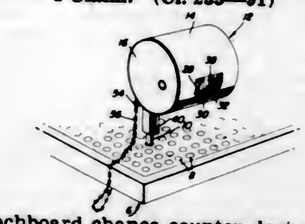
1. In a miniature-type calculating machine, a casing, a drive member shaft extending through

the casing and having an end portion protruding out of the casing, a drive member mounted on said shaft for free rotation in the casing and centrally arranged in the latter, teeth on said drive member, a crank fixed to said shaft end portion, a counter carriage supported on the casing with freedom of rotation about said drive member shaft and of axial movement between a coupled and an uncoupled position and having an annular groove, a counter for a number of digits provided in said counter carriage, radial shafts provided in said counter carriage, a plurality of transmission gears the number of which corresponds to the number of digits of the counter, said gears being rotatably mounted on said radial shafts and spaced from each other in a circle concentric with the drive member shaft, a setting mechanism for a plurality of digits arranged in the casing, a plurality of parallel shafts the number of which corresponds to the number of digits of the setting mechanism, said parallel shafts being mounted in the casing parallel to the drive member shaft and spaced like said transmission gears in a circle concentric with the drive member shaft, setting pinions mounted on said parallel shafts and rotatable there-



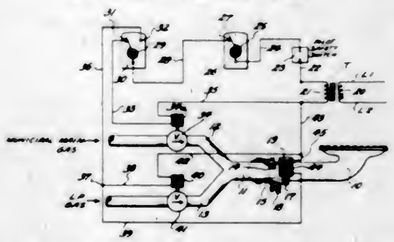
with, with freedom of axial movement to throw said pinions selectively and individually in mesh with the drive member teeth, crown wheels rigidly fixed on the parallel shafts near the upper end thereof and in mesh with said transmission gears in the coupled position of the counter carriage, a control member firmly mounted on the drive member shaft, a one-armed locking bolt arranged adjacent to said annular groove when the counter carriage is in its coupled position, means pivotally mounting said locking bolt in the casing free to move into said groove to prevent axial movement of the counter carriage out of said coupled position, a follower in engagement with said control member and operatively connected to the locking bolt to hold the latter in the groove during the whole rotation of the drive member excepting a zero position, said control member having a recess adapted to receive said follower in said zero position, and a stop on said counter carriage lying in the path of said locking bolt when the counter carriage is in said uncoupled position and adapted to engage with said locking bolt to hold said follower in said recess and prevent rotation of the drive member out of said zero position.

2,661,156
PUNCHBOARD CHANCE COUNTING PUNCH MEANS
George Anderson, Walla Walla, Wash.
Application September 28, 1951, Serial No. 248,675
1 Claim. (Cl. 235—91)



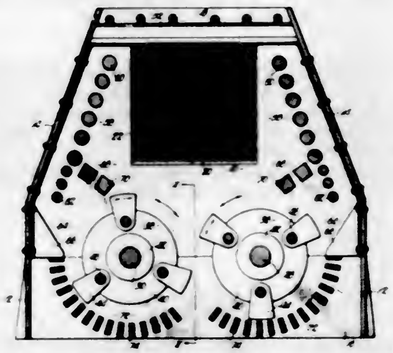
A punchboard chance counter device comprising a portable cylindrical casing provided with a sight opening constituting a window, counter means operatively mounted in said casing and having numbered indicating wheels registrable individually and collectively with said window, said counter means also including a ratchet wheel, said casing being provided adjacent said ratchet wheel with opening means, a rigid punch rod having one end detachably mounted in said casing and having its opposite end passing through and beyond said opening means where it is situated for use in association with a punchboard, a plunger in the form of sleeve, said sleeve being slidable in said opening means and reciprocable on said punch rod, a coil spring surrounding said rod and located in the casing and interposed between the inner end of the sleeve and the first named end of said punch rod, a pawl mounted in said casing and cooperable with the ratchet teeth on said ratchet wheel, and a pawl carried by said sleeve and also engageable with the ratchet teeth on said ratchet wheel.

2,661,157
APPARATUS FOR THE SELECTIVE BURNING OF DIFFERENT TYPE GASEOUS FUELS EMBODYING A COMMON BURNER ELEMENT
Charles A. Reichelderfer, Columbus, Ohio, assignor to Norman Products Company, Columbus, Ohio, a corporation of Ohio
Application November 15, 1950, Serial No. 195,863
6 Claims. (Cl. 236—91)



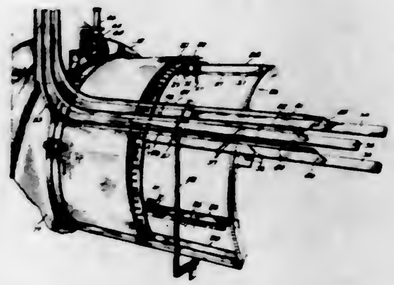
1. In a gaseous fuel burner system; a single burner for gaseous fuels; primary air inlet means on said burner arranged to admit air into gaseous fuels introduced to said burner for admixture with such fuels prior to combustion; a first conduit connected to supply a first type of gaseous fuel to said burner; a second conduit connected to supply a second type of gaseous fuel to said burner; shutter means arranged adjacent to said primary air inlet means and movable to vary the effective size of said inlet means and thereby to vary the volume of primary air passing inwardly of said burner; electro-responsive means energizable to move said shutter means; normally closed electrically actuated valve means connected with each of said first and second conduits and energizable to open said conduits to permit the free flow of fuels therethrough; and switch means having electrical connections with said electro-responsive means and said electrically actuated valve means and operable to alternately close operating circuits for said electro-responsive means and the valve means connected with one of said conduits while opening a circuit for the valve means connected with the other of said conduits or for closing an operating circuit for said last-named valve means while opening operating circuits for said electro-responsive means and said first-named valve means.

2,661,158
ROCK CRUSHER HAVING CONTAINED ROCK SCREENING AND COOPERATING GRATE MEANS
Frank D. Fogle, Ottawa, Kans.
Application November 19, 1951, Serial No. 257,029
1 Claim. (Cl. 241—80)



In a rock crusher having structure including a top wall, a pair of spaced side walls and a pair of spaced end walls and forming an open bottom, hollow chamber provided with an inlet opening, there being a pair of spaced, rotatable rock crushing means in the chamber below the inlet opening adapted to project the rock upwardly and laterally to the top and both side walls of said structure, the improvement of which comprises the combination of screening apparatus including a plurality of spaced-apart, vertical plates mounted on each side wall respectively above the axes of rotation of said crushing means and having the uppermost edges thereof inclined downwardly and inwardly toward said axes of rotation for directing toward said crushing means oversize rock rejected by said inclined edges of the plates; and a grate underlying each crushing means respectively, said grates being spaced apart and extending downwardly and inwardly from the inward and lower portion of a corresponding screening apparatus toward each other in spaced relationship to the proximal side wall for receiving a portion of the rock from said screening apparatus, each grate including a plurality of spaced, elongated bars interconnecting said end walls with their longitudinal axes horizontal and parallel with the axes of rotation of said crushing means, the bars of each grate being arranged in an arcuate row concentric with the axis of rotation of the corresponding crushing means, the bars being disposed with their transverse axes in a plane extending radially through the axes of rotation of corresponding crushing means.

2,661,159
MULTIPLE SCREEN PULVERIZER
George F. Thomas, Chicago, Ill., assignor to Prater Pulverizer Company, Chicago, Ill., a corporation of Illinois
Application June 12, 1951, Serial No. 232,581
9 Claims. (Cl. 241—88)

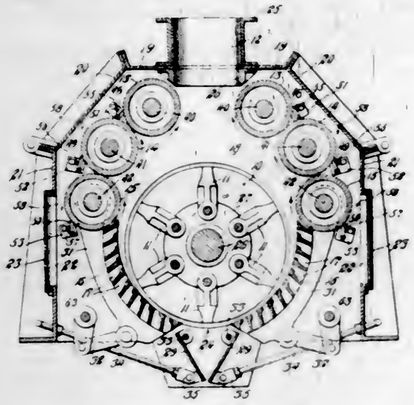


9. A multiple screen pulverizing unit comprising a housing, movable means for pulverizing particles of material supported within said housing, said housing having a wall formed with an opening therein, a plurality of individually movable screens of varying mesh complementally formed to the opening and supported exteriorly of the wall of said housing formed with the opening and adapted to be individually inserted longitudinally with respect to the axis of the movable means through said opening from their respective contiguous overlying positions exteriorly of said housing into said housing to a use position adjacent to and cooperating with said movable pulverizing means and parallel to the axis thereof, means for selectively longitudinally moving any desired one of said screens into or out of cooperating position with said movable pulverizing means and moving said screens parallel to the axis of the movable means, releasable clamp means on said housing for securing a selected one of said screens in cooperating position with said movable pulverizing means, and means for controlling the operation of said releasable clamp means and said selective moving means from a position remote from the situs of said unit.

2,661,160
REVERSIBLE HAMMERMILL WITH POWER-DRIVEN IMPACTOR SURFACES
Edwin H. Keiper, Philadelphia, Pa., assignor to Pennsylvania Crusher Company, Philadelphia, Pa., a corporation of New York
Application October 26, 1951, Serial No. 253,409
2 Claims. (Cl. 241—186)

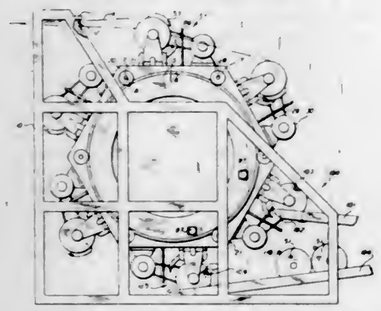
1. A crusher having a rotor carrying hammers, a feed chute terminating vertically above the top of the rotor and providing an entrance space through which material is freely dropped vertically downward into the top of the hammer circle of the rotor, a movable anvil means having surfaces along one side of said entrance space and extending from an upper point above the top of said hammer circle and at the lower end of said feed chute to a lower point at the downward side of said hammer circle and below the top thereof, driving means for moving said anvil means to carry said surfaces upward over the rotor and upward along the side of said entrance space and tangent to the vertically dropping material in said entrance space to receive the material thrown by said hammers across said en-

trance space and across the paths of the material entering vertically from the feed chute,



and scraping means engaging the surface of the anvil means to remove material adhering thereto.

2,661,161
AUTOMATIC TAKEUP MECHANISM
William T. Hicks, Glen Rock, and Daniel V. Waters, Lebanon, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 27, 1951, Serial No. 248,602
14 Claims. (Cl. 242—25)



1. In a continuous take-up apparatus for a strand, a support mounted on an axis, reel supporting units mounted at spaced positions on the support and having pairs of centers adapted to engage the hubs of reels and rotatably support the reels, means to rotate the support intermittently to successively locate the reel supporting units at a filling position, means to supply empty reels to a loading position, and means energizable to operate the reel supporting units adjacent the loading position to cause their centers to enter the hubs and rotatably support the reels singly at the loading position.

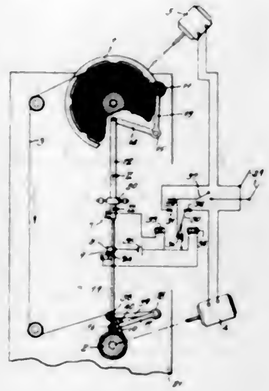
2,661,162
DRIVING AND LOCKING MEANS FOR APPARATUS HAVING REMOVABLE MAGAZINE
Freeman H. Owens, New York, N. Y.
Application May 13, 1948, Serial No. 26,736
10 Claims. (Cl. 242—55)

1. In an apparatus on which a magazine containing a spool to be driven is adapted to be removably placed, a wall over which said magazine is adapted to be slid to proper position on said apparatus, said wall having a recess, a bushing in said recess, a sleeve vertically movably mounted in said bushing, a driving shaft rotatably mounted in said sleeve and vertically movable therewith, a driving means for said spool connected to said shaft and vertically movable therewith between a housed position in which said driving means is received within said recess and does not interfere with sliding movement of



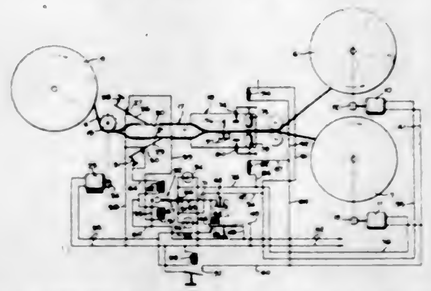
said magazine along said wall and an operative position in which said driving means projects from said recess and makes driving engagement with said spool, a plate mounted for vertical movement on the exterior of said bushing, and a pin carried by said plate and engageable with said sleeve via a slot in said bushing so as to vertically move said sleeve, and hence said shaft and said driving means, as said plate is manipulated.

2,661,163
AUTOMATIC WIND AND REWIND SYSTEM FOR STRIP MATERIALS
Percy E. Greene, Denville, N. J., assignor to Leventhal Patents, Inc., New York, N. Y., a corporation of Delaware
Application August 25, 1948, Serial No. 45,997
10 Claims. (Cl. 242—55)



1. In combination in a machine for winding variable length elongated strips back-and-forth from one roll to another, a first drum and driving means for driving the same to wind a strip thereon, a second drum and driving means for driving the same to wind said strip thereon, a follower system adapted to follow accumulations of said strip on said first drum and to be fixed at a position corresponding to a predetermined approximately maximum extent of said strip thereon and including a first member movable through positions corresponding to the instantaneous amounts of said strip on said first drum, a follower system adapted to follow accumulations of said strip on said second drum for following the instantaneous amounts of said strip thereon and including a second member movable through positions corresponding to the instantaneous amounts of said strip on said second drum, said movable members being movable with respect to each other, a system interconnecting said movable members including means actuated by the motion of said second member to a position corresponding to the accumulation of a predetermined small extent of said strip on said second drum for preventing further motion of said first member, and means on said movable members responsive to further movement of said second member to a position corresponding to the accumulation of a predetermined approximately maximum extent of said strip on said second drum for deenergizing said second driving means and energizing said first driving means, and responsive to movement of said second member to a position corresponding to said predetermined small extent of said strip on said second drum for deenergizing said first and energizing said second driving means.

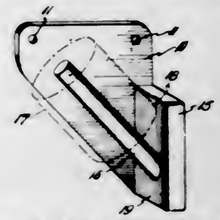
2,661,164
AUTOMATIC FILM SELECTING METHOD AND SYSTEM
Alexis Badmaieff, Los Angeles, Calif.
Application August 15, 1949, Serial No. 110,292
12 Claims. (Cl. 242—55)



1. A system for rapidly selecting and segregating satisfactory and unsatisfactory sequences from a roll of film, comprising means for marking said film with markings of different characters in accordance with the sequences to be joined together, means for continuously advancing said film during the occurrence of markings on said film of the same first character, means for automatically stopping said film during the occurrence of markings of a second character, and means for automatically stopping said film during the subsequent occurrence of said markings of said first character after markings of said second character have stopped said film.

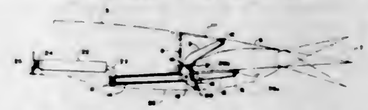
2,661,165
PAPER ROLL HOLDER
Sven Salmonson, Stockholm, Sweden
Application May 26, 1948, Serial No. 29,223
Claims priority, application Sweden September 1, 1945
12 Claims. (Cl. 242—55.2)

1. A holder for paper rolls comprising an elongated supporting member upon which a paper roll can be rotatably positioned, means cooperating with the lower end of said member adapted to mount the latter on a wall in spaced relation thereto so that said member is inclined at an acute angle from the vertical and extends across the wall in a horizontally extending direction with the upper and lower extremities at the longitudinal axis thereof intersecting spaced apart vertical planes, respectively, which are essentially parallel to one another and transverse to the wall, and structure embodied in the holder providing a surface at a region which is removed from the wall and against which a lower portion of the roll is adapted to bear, said structure being so constructed and formed that the frictional engagement between the roll and said surface is relatively small and will enable the roll to be turned when the outer free end thereof is grasped and



pulled outwardly from the wall in a direction more or less at a right angle to the axis of said member and normal to the wall, and the frictional engagement between the roll and said surface is relatively great and tends to prevent turning movement of the roll when the outer free end thereof is pulled downwardly to facilitate tearing off a piece of paper.

2,661,166
AIRCRAFT FLAP MECHANISM
Carroll G. Gordon, Pasadena, Calif., assignor to North American Aviation, Inc.
Application September 15, 1949, Serial No. 115,835
10 Claims. (Cl. 244—42)

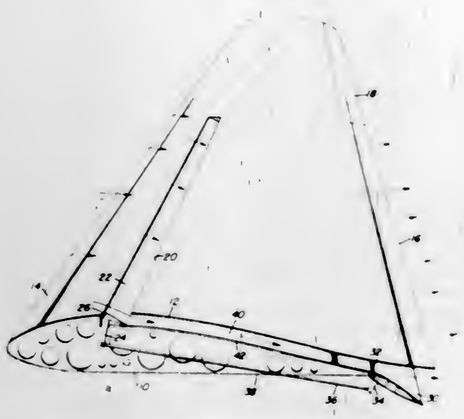


1. In aircraft, a relatively fixed wing having forward and trailing portions, a flap movably mounted upon the trailing portion of said wing, rectilinear guide means attached to said wing, a bell-crank lever pivotally suspended from said fixed wing, an elongated beam element extending fore and aft rearwardly in substantial alignment with said guide means and having a first terminal rollingly engageable with said guide means, the opposite terminal of said beam element pivotally attached adjacent the undersurface of said flap, an intermediate portion of said bell-crank lever pivotally attached to an intermediate portion of said beam element, link means pivotally interconnecting the leading edge of said flap with said bell-crank lever, and actuating means pivotally engaging said first terminal of said beam element for imparting rectilinear movement to said first terminal of said beam element along said guide means for the rearward and downward extension of said flap with respect to said wing trailing portion.

2,661,167
AIRPLANE WING CONSTRUCTION WITH PASSAGE FROM UPPER SURFACE TO TRAILING EDGE
Morris E. Clark, Winslow, Ariz.
Application April 3, 1950, Serial No. 153,567
1 Claim. (Cl. 244—42)

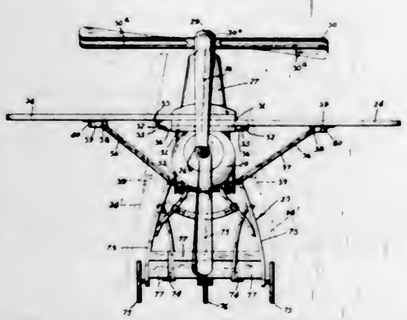
In an aircraft wing which has a first member forming an upper surface and a second member forming a lower surface, said first member having a slot therein located at the maximum camber of the wing, a sheet-like member mounted between the first and second members

and being spaced from the first member to define an air duct in the wing, said duct communicating with the slot at one end, said sheet-like member and said second member having meeting trailing edges disposed forwardly of the trailing edge of the first member to form an opening at the rear of the duct, and a spanwise



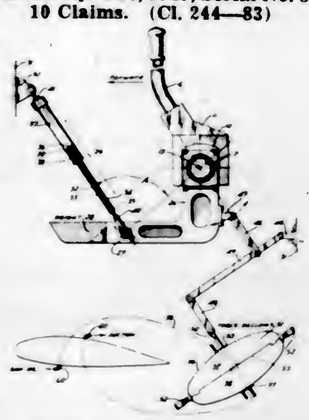
flap having a leading edge hinged to the meeting edges of said sheet-like member and said second member, said flap having a trailing edge movable selectively toward and away from the trailing edge of said first member, and said slot being considerably larger than the cross-sectional area of said duct.

2,661,168
WING MOUNTING FOR HELICOPTER-AIRPLANES
John Mortka, Brooklyn, N. Y.
Substituted for abandoned application Serial No. 47,080, August 31, 1948. This application January 23, 1953, Serial No. 332,809
8 Claims. (Cl. 244—49)



1. In an aircraft, a fuselage, wings pivotally mounted on the sides of said fuselage to be movable between inoperative positions wherein said wings are depended along the sides of said fuselage and operative positions wherein said wings are laterally extended from the sides of said fuselage with their adjacent ends overlapped at the top of said fuselage, and means for supporting said wings in positions extended laterally from the sides of said fuselage.

2,661,169
AIRCRAFT CONTROL STICK FORCE LINKAGE
Irving L. Ashkenas, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application April 18, 1949, Serial No. 88,165
10 Claims. (Cl. 244—83)

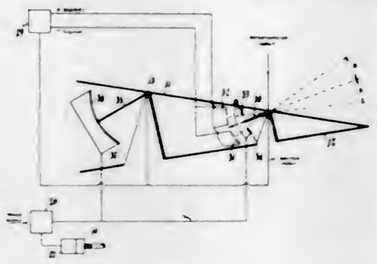


1. In an airplane having an elevation control surface and a pilot's control element movable about a pivot to deflect said elevation control surface, the combination of a servo-motor unit interposed between said control element and said control surface for obtaining a desired deflection of said control surface without imposing any control surface reactive forces on said control element, a weight fixed to said control element forward of said pivot, and elastic weight-balancing means connected between said control element and a fixed point on said airplane to develop a component of force opposite to the pull of gravity on said weight, said elastic balancing means comprising two relatively slidable coextensive members elastically held in a composite retracted position by a compression spring, a first terminal connection on the first of said two members for applying tension thereto to extend said members against the force of said spring when the second member is held, an out-turning flange on said second member, a third member having a hollow interior extent assembled over said second member and slidable axially thereon, said third member having stop means near one end thereof in position to contact and prevent said flange from sliding past said stop means out of said third member in response to tension in said first member, and a second terminal connection on the other end of said third member, said terminal connections being connected to said control element and said fixed point, respectively, at locations such that said first and second members are positioned to travel freely as a unit within said hollow interior when said control element is in aft positions where appreciable positive normal accelerations are imposed on said airplane.

2,661,170
MEANS FOR CONTROLLING AIRCRAFT IN FLIGHT
James Arthur Chamberlin, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada
Application February 11, 1950, Serial No. 143,719
8 Claims. (Cl. 244—87)

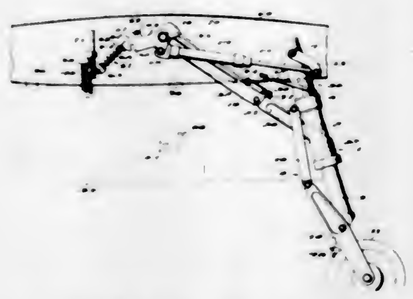
1. Flight control means for an aircraft comprising a fixed plane surface, a plurality of flaps

hinged serially to one another, the most forward flap of the series being hinged to the fixed plane surface, and means for controlling the flaps so that deflection thereof from the aerodynamically neutral position takes place successively from the rearmost flap forwardly, said means including means for deflecting one flap, power operated means for deflecting the flap immediately forward of said one flap, means for actuating the power operated means, an electric circuit, a normally open switch in the circuit adapted to be closed when the said one flap is deflected beyond



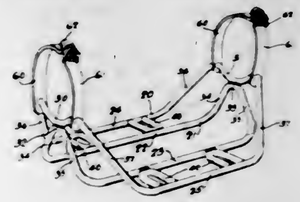
a predetermined angle relative to said power operated flap, a potentiometer system in the circuit energized when the switch is closed and including a potentiometer having a potentiometer arm movable proportionally to the relative movement between said one flap and the power operated flap for creating an electrical signal proportional to, and in the same sense as, the difference between the angle of deflection of the said one flap and the said predetermined angle, and means in the circuit for collecting the signal and transmitting same to the means for actuating the power operated flap.

2,661,171
UP AND DOWN LOCK MECHANISM FOR RETRACTABLE LANDING GEAR FOR AIRCRAFT
John H. Allen, Baltimore, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application October 11, 1951, Serial No. 250,930
8 Claims. (Cl. 244—102)



1. An aircraft, landing gear mounted on said aircraft for movement between an extended operative position and a retracted position for stowage during flight, actuating means for moving said gear between said positions, downlock means for holding said gear in its fully extended position, uplock means for holding said gear in its retracted position, a lock actuating lever movably carried by said aircraft and operatively connected to said uplock means and said downlock means and movable in one direction to move said downlock means toward locking position and said uplock means toward unlocked position, and movable in the other direction to move said uplock means toward locking position and said downlock means toward unlocked position, spring means carried by said aircraft and acting against said lever, and means responsive to operation of said gear actuating means to extend said gear, for moving said lever relative to said spring means to a position wherein said spring means will urge said lever in said first direction and responsive to operation of said actuating means to retract said gear to move said lever to a position relative to said spring means wherein said spring means will urge said lever in said other direction.

2,661,172
MOTOR CRADLE
Robert L. Needham, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 18, 1952, Serial No. 310,239
8 Claims. (Cl. 248—19)

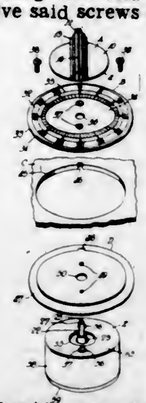


1. A cradle for supporting an electric machine said cradle consisting of a main strut in the form of an elongated, closed loop of metal bar material the meeting ends of which are welded together, said strut having two spaced, parallel base portions which converge and are bent upwardly at their respective ends, the converging straight end portions terminating in a circular, concaved portion substantially centrally of the spaced base portions; a reenforcing strut similar in general shape to the main strut, the two spaced, parallel base portions thereof being aligned with the base portion of the main strut and closer together, said base portions converging at their ends and being positioned at a lesser angle relative to the parallel portions than the ends of the main strut, the apexes of the ends of the reenforcing strut engaging and being welded to the concaved end portions of the main strut; and reenforcing members between the parallel portions of the two struts and welded thereto.

2,661,173
MOUNTING FOR TIMING UNITS
Henry J. Walser, White Plains, N. Y.
Application June 3, 1948, Serial No. 30,917
9 Claims. (Cl. 248—27)

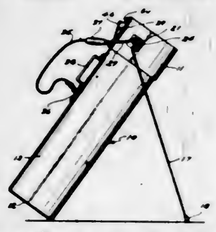
1. A mounting for a timer having a cylindrical body on a panel board comprising a backing disc and a face disc, and screws to clamp said discs closely together on said panel board and to said timer, said panel board being provided with an opening which is substantially greater in diameter than said timer and the front of said timer having spaced diametrically opposite screw sock-

ets and said backing disc and face disc having openings to receive said screws aligned with said



screw sockets and said screws extending through said openings and into said sockets.

2,661,174
GOLF BAG AND STAND
Walter Sands, Minneapolis, Minn.
Application September 18, 1950, Serial No. 185,359
1 Claim. (Cl. 248—96)



A golf bag and stand of the character described, comprising in combination, a bag having a top, bottom, front and back and having opposed side surfaces converging toward the back, a stand for supporting the bag in a generally upright position and said stand including legs normally extending lengthwise along said side surfaces, means pivoting the upper end portions of the legs to said side surfaces adjacent the upper end of the bag whereby as the legs are swung forwardly about said pivot means the legs will diverge and with the bag form a tripod support, the upper end portions of the legs above said pivot means being bent angularly upwardly and rearwardly and then turned toward each other back of the bag, balls pivotally mounted on the adjacent extremities of these upper ends of the legs, a sleeve extending between and having bearing engagement with said balls whereby said legs may be swung in unison about said pivot means by the sleeve, a strap secured to the sleeve and to a relatively lower point on the bag, and a retainer spring secured to the upper rear portion of the bag and having an upper end positioned to engage the sleeve when the legs are swung to their normal positions and to releasably hold the legs in such position.

2,661,175
GOLF BAG HOLDING STAND
Frederick D. Holder, Hickory, N. C.
Application July 30, 1951, Serial No. 239,291
1 Claim. (Cl. 248—96)

A golf bag holder stand comprising a frame formed from a rigid rod having an upright portion, said upright portion being bent at a right angle at its lower end and then being bent in the form of a loop to form a platform on which a bag may rest, a pair of vertically spaced arcuate members secured to the upright portion one adjacent the platform and one adjacent the top of the upright portion, a pair of closely spaced slots in opposed ends of each of said arcuate members, a strap threaded through said slots in each of the arcuate members, means for removably securing opposed ends of the straps together, a handle secured intermediate the ends of the upright portion and extending substantially at right angles therefrom relative to the vertical plane of the



axis of said loop portion, said rod being bent laterally at its lower end to form a stem portion extending substantially radially of the axis of the loop portion, and a downwardly bent portion on the free end of said stem whereby said handle may be grasped by an operator for supporting the frame as the operator's foot is placed upon the stem portion of the frame and his weight subsequently applied thereto to drive the anchor portion into the ground to thereby rigidly support the frame and whereby a golf bag may be placed upon the platform and against the arcuate members and said straps may encircle said golf bag and be secured at their opposed ends to secure the golf bag against the arcuate members.

2,661,176
FOLDING DISPLAY RACK
Fred Drueck, Jr., Chicago, Ill., assignor to Chicago Cardboard Company, a corporation of Illinois
Application December 10, 1948, Serial No. 64,678
4 Claims. (Cl. 248—152)



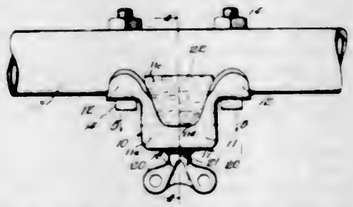
1. A one-piece folding display rack of sheet material, comprising: a horizontal, unitary base member which lies in a single plane, an upwardly and rearwardly extending gripping portion hinged to the rear margin of said base member, said gripping portion having an aperture to receive a display item, an upright display member hinged to and surmounting said gripping portion, an integral rigid tongue on each of said members and extending toward the plane of the other of said members, the first of said tongues being narrow and the second of said tongues being bifurcated and having the ends of its two arms flanking and spaced laterally from said first tongue, and a U-shaped connector piece which has its two arms hinged to said second tongue along a single transverse line and which is hinged to the end of said first tongue along a transverse line parallel to said single transverse line which lies between the arms of the U so that said connector piece lies in a plane parallel to the first tongue and has its base portion in facing contact with a portion of said first tongue, said display rack being retained in assembled position by engagement of a display item with the lateral margins of said aperture and pressure thereof against said tongues and being collapsible so as to lie in a single plane with the tongues and connector piece lying in the aperture in laterally adjacent relationship.

2,661,177
ADJUSTABLE MOUNTING FOR REARVIEW MIRRORS
Laurence P. Hofer, Portland, Oreg.
Application October 5, 1948, Serial No. 52,810
19 Claims. (Cl. 248—291)



1. In a mounting for a rear view mirror for automobiles, stationary supporting means adapted for attachment to the automobile, movable adjusting means adapted for attachment to the mirror, actuating means having a portion thereof extending through the adjusting means and supporting means for securing the former to the latter, and means carried by said portion for moving the adjusting means relative to the supporting means to tilt the mirror upwardly or downwardly.

2,661,178
SWIVEL HANGER FOR COW STALL STANCHIONS AND THE LIKE
Robert Gaye Ferris, Harvard, Ill., assignor to Starline Inc., Harvard, Ill., a corporation of Illinois
Application July 13, 1948, Serial No. 38,433
4 Claims. (Cl. 248—317)



1. A cow stall stanchion swivel hanger comprising: a cup-shaped hanger member having upstanding end walls adapted to be attached to the under side of a cow stall frame member, and having side walls of less height than said end walls, said member having a slotted bottom; a pair of loose bearing members resting on the bottom of said hanger member and having portions projecting into said slot to provide an aperture, said bearing members forming an upwardly concave bearing surface, the top margin of which is substantially alined with the top edge of said side walls; a swivel head having a generally hemispherical bearing portion supported in said bearing members and a neck extending through said aperture to afford an attaching element beneath the hanger member, the flat top of said hemispherical bearing portion being substantially alined with the top edges of said side walls and said bearing members; and a resilient, compressible, lubricant impregnated pad filling the space between said alined members and the cow stall frame member so as to yieldably urge the bearing members and swivel head toward the bottom of the hanger member and lubricate the bearing surfaces.

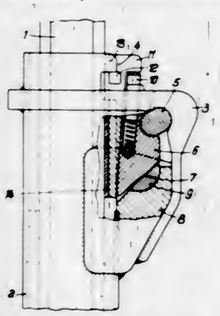
2,661,179
ADJUSTABLE CLOTHESLINE SUPPORT
Lawrence S. Rose, Lorain, Ohio, assignor to Lift-A-Line, Inc., Lorain, Ohio, a corporation of Ohio
Application May 9, 1950, Serial No. 160,948
1 Claim. (Cl. 248—353)



An extendable-retractable clothesline prop comprising a pair of parallel, elongated, solidly formed bar members of rectangular cross section disposed side by side with one face of each member in contact with one face of the other member, one of said bar members being adapted at its upper end for supportably engaging a clothesline and the other bar member having its lower end adapted for ground engagement, said one member having a peripheral groove near its lower end and said other member having a like groove adjacent its upper end, both grooves being arranged normally to the long axes of the members, said other member being provided with a peripheral groove intermediate its ends having a top wall normal to said axes and a bottom wall oblique to said axes, said top wall and oblique wall of the last-named groove converging in a direction away from said one bar member and being spaced closely apart at their convergent ends; and a plurality of identical plate members having apertures formed with large, bar-member-encircling rectangular portions formed to the full width of the bar members and smaller rectangu-

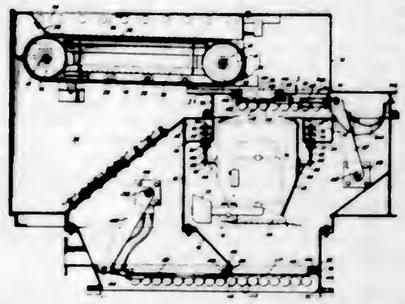
lar portions communicating with the large portions and formed to the reduced width of the bar members at the locations of the grooves, said smaller portions of the apertures being received in the several grooves of the bar members, the first named grooves being proportioned as to width substantially to the thickness of the plate members received therein and the last-named groove having the convergent ends of the top and bottom walls thereof spaced apart a distance approximately equal to the thickness of its engaged plate member, so as to insure that all of said grooves will retain their associated plate members in positions normal to the long axes of the bar members and thereby guide the bar members in effecting relative longitudinal adjustments thereof during the extension and retraction of the prop, the top wall of the last-named groove engaging the plate member associated therewith on upward movement of said one bar member so as not to interfere with said upward movement, downward movement of said one bar member under the imposition of weight placed thereupon by the supported clothesline being effective to rock the plate member of the last-named groove into engagement with the oblique wall of said last-named groove, thus to dispose said last named plate member obliquely to the axes of the bar members and frictionally interengage the bar members against relative longitudinal adjustment.

2,661,180
METALLIC PROP
Karl Gerlach, Moers, Germany
Application November 13, 1950, Serial No. 195,233
9 Claims. (Cl. 248—354)



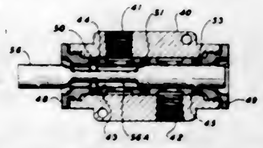
3. In a stemple construction of the type comprising an outer stemple, an inner stemple which is preferably tapered and disposed in telescoping relationship to said outer stemple, a sliding wedge disposed longitudinally of and proximate one side of the inner stemple and adapted to be carried along by said inner stemple over a portion of its path of travel, and a lock secured to the upper end of said outer stemple and including a locking and release element extending transversely of said sliding wedge, means adapted to support the sliding wedge and to share the horizontal pressures thereof, said means including members disposed adjacent the top of said outer stemple, having curved back portions and presenting a pair of rigid abutments facing said sliding wedge in different angular positions, wherein the position of one of said abutments is adjustable by said locking and release element, wherein said sliding wedge derives support from an intermediate member which distributes the horizontal pressure and which is supported against said two rigid abutments, and wherein the other abutment is formed by an inclined plane disposed in said lock and by a corresponding plane on said intermediate member, said inclined plane being disposed upon a rotatable intermediate member constituted by one of said members having a curved back portion.

2,661,181
AIR LOCK COAL SCALE
Arthur J. Stock, Cleveland, Ohio
Application October 31, 1951, Serial No. 254,130
9 Claims. (Cl. 249—38)



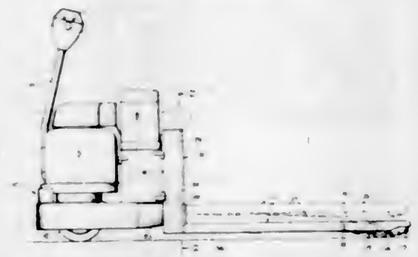
1. A system for feeding material to a zone having a pressure different from atmospheric that comprises a gastight compartment having an inlet and an outlet, a weighing device in said compartment, said weighing device having a closure element to permit discharge of material, a normally opened first valve positioned in said inlet, a normally closed second valve positioned in said outlet spaced from the closure element of said weighing device, means responsive to the reception in said weighing device of a predetermined amount of material to successively close said first valve and open said second valve, and means responsive to the discharge of material from said weighing device to successively close said second valve and open said first valve.

2,661,182
MULTIWAY PISTON VALVE WITH REMOVABLE BUSHING AND PACKING STRUCTURE
Samuel M. Kipp, Pasadena, Calif.
Application February 2, 1948, Serial No. 5,791
3 Claims. (Cl. 251—76)



1. A valve comprising a housing having a longitudinal bore therethrough and at least two ports opening into the bore, a separate annular bushing symmetrical in design and disposed in the bore in line with each port, the bushings being circumferentially recessed to form an annular passage with at least one radial port therein opening into the annular passage, a packing gland fastened into each end of the bore, the bore being of substantially constant diameter in the region between the packing glands, a plurality of ring-type resilient packers disposed in the bore, the bushings and packing glands being separated from each other by a single resilient packer, and a cylindrical stem in said bore slidably disposed within said annular bushings, the stem having a reduced diameter section alignable with the ports in one position to allow flow, the cross-sectional transverse diameter of each ring-type packer being large enough to form a dynamic line-type seal with the stem at the inner circumference of the packer and a static line-type seal with the wall of the bore at the outer circumference of the packer, the stem being movable to a second position to block the flow, the bushings being substantially identical with each other and the packers being substantially identical with each other to facilitate the alternate slidable assembly and maintenance disassembly thereof without further regard to orientation.

2,661,183
CLOSE COUPLED TRUCK
Herbert J. Framhein, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application April 7, 1951, Serial No. 219,784
6 Claims. (Cl. 254—2)



In a truck of the class described, a lifting head, an elevating platform, a pair of vertical rectilinear channel members on the front end of said elevating platform, roller brackets on said lifting head extending between said channel members, rollers on said roller brackets engaged in said channel members whereby to guide and restrain the front end of said elevating platform for vertical rectilinear lifting and lowering movement of said elevating platform relatively to said lifting head, a cam fixed on said lifting head between said channel members, a lever mounted on and movable bodily with said elevating platform relatively to said lifting head, said lever being engaged with said cam between said channel members and swung thereby when said lever is moved bodily with said elevating platform relatively to said lifting head, means supporting said elevating platform rearwardly of said channel members for lifting and lowering movement, and means whereby said lever actuates said platform supporting means to lift and lower said elevating platform simultaneously with rectilinear movement of said platform relatively to said lifting head.

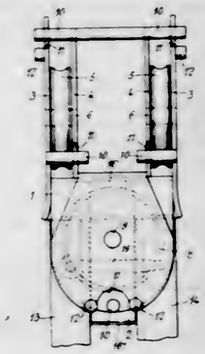
2,661,184
AWNING ROPE GUIDE AND PULLEY
Lorenz E. Jefferson, Baltimore, Md.
Application February 27, 1952, Serial No. 273,637
1 Claim. (Cl. 254—190)

An awning rope guide and pulley, comprising a plate having its side edges bent upwardly and downwardly to provide U-shaped structures, said downwardly depending U structures defining spaced leg portions, their terminals formed into penetrating points, said upwardly extending portions of the U forming spaced supporting arms, said spaced arm portions having a shaft adjacent the upper ends horizontally therethrough, a pulley rotatably mounted on said shaft between said



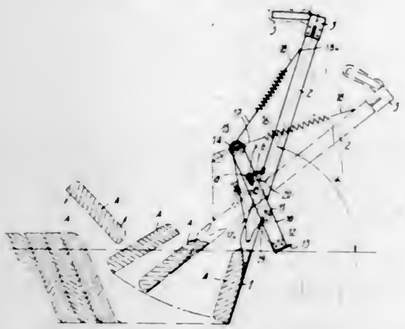
arms, and a slotted attaching plate through which the leg portions extend to rigidly fasten the unit, as a whole, to an awning in position to receive the guide ropes therethrough, for the purpose specified.

2,661,185
ROLLER HOUSING WITH LINE REEVING ARRANGEMENT
Ludvik Isachsen, Larvik, Norway
Application November 24, 1950, Serial No. 197,228
Claims priority, application Norway
December 1, 1949
3 Claims. (Cl. 254—193)



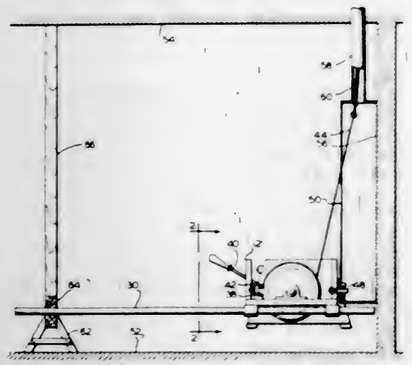
1. A hoisting device for trucks and trailers or the like, comprising a roller housing, two spaced rollers mounted to rotate about a common axis, said housing including two pairs of side walls, one of said walls being disposed on each side of and adjacent each of said rollers to retain the hoisting cable thereon, a third roller mounted to rotate about an axis perpendicular to the first mentioned axis, said third roller being disposed below and symmetrical with said first rollers with its diametrically opposed peripheral edges aligned with the peripheral edges of said first rollers so that a hoisting line may be passed from said third roller to either of said first rollers depending upon the direction of feed, retaining means for confining the hoisting line to said rollers, said retaining means comprising cross rods arranged between the walls of each pair, one end of each of said rods being secured to one wall of each pair and the other end thereof projecting somewhat beyond the opposite wall of each pair, said last wall of each pair having an opening adjacent the last mentioned end of said cross rod to provide clearance for bending the hoisting line into place.

2,661,186
SPADE, SHOVEL, FORK OR THE LIKE TOOL
Alphonse Helin, Vitry-le-Francois, France
Application January 16, 1948, Serial No. 2,754
In Belgium March 23, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 23, 1966
1 Claim. (Cl. 254—131.5)



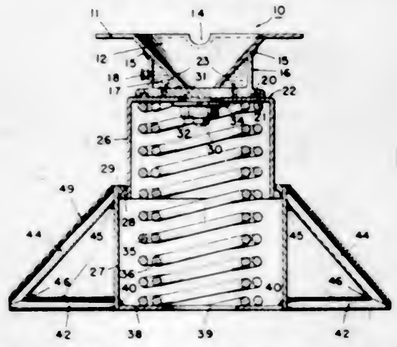
A shovel, or the like tool, comprising a handle, a handle bar upon one end of said handle, a support member adapted to bear on the ground, resilient means interconnecting the handle and support and urging them towards each other, and means pivotally supporting said handle intermediate its ends on said support member and comprising at least one transverse axle and means carried by said handle for supporting said axle in front of said handle, said support member having slots through which said axle extends, whereby said support member may rock forwardly during the operation of the tool.

2,661,187
CONDUIT PULLING WINCH
Alex Dailey, Durham, N. C.
Application January 17, 1952, Serial No. 266,894
6 Claims. (Cl. 254—134.3)



1. Portable, knock-down apparatus for pulling electrical conductors through conduits comprising: a frame; a cable winch; a cable secured to said winch; a prime mover detachably secured to said frame, and said prime mover being detachably operatively connected to said winch; clamping means integrally secured to one side of said frame for detachably securing said apparatus to the open front of an electric panel box, wherein said cable on said winch may be fed into said box for engagement with an electrical conductor to be drawn through a conduit by said winch and cable; and lever means detachably secured to said frame opposite said clamping means whereby the operator may use said lever means to apply compensating torque opposite to that of said winch when an electrical conductor is being drawn through a conduit by said winch.

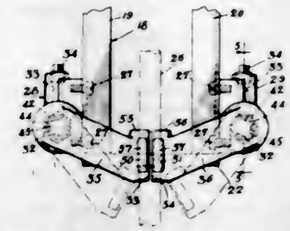
2,661,188
BIT LIFTER AND STABBER
Van Smoot, Houston, Tex.
Application November 18, 1949, Serial No. 128,120
3 Claims. (Cl. 255—1)



1. A portable device for facilitating the presentation of a threaded drilling stem unit to a suspended drilling stem having a cooperating threaded portion, comprising a turntable adapted to be positioned under and coaxially of the drilling stem while supporting the unit to be secured to the stem, and spring means yielding urging the turntable toward the stem, whereby a single workman may press down upon the turntable with the unit upon it so as to bring the turntable and its supported bit or other unit into said coaxial position and upon release of such pressure the spring means will hold the unit against the suspended stem and rotation of the turntable and the unit supported thereby will start coupling the unit to the stem, in which the turntable comprises a conical bit-supporting member, a perforated base member, a vertical wall joining the members to form a grease chamber, and a horizontal member engages the spring means on its bottom surface and rotatably carries the base of the turntable on its upper surface, a telescoping stand, which includes the horizontal member, surrounds the spring means, and the stand is supported against tilting by a plurality of laterally extending legs.

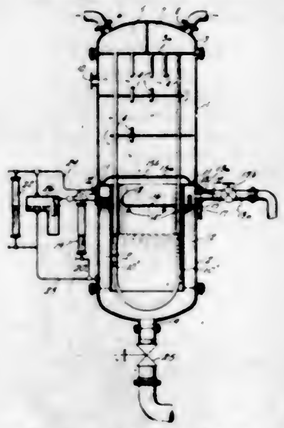
2,661,189
CENTRALIZER
Hilmer A. Gillerstrom, Arcadia, Calif., assignor to Independent Pneumatic Tool Co., Aurora, Ill., a corporation of Delaware
Application September 29, 1951, Serial No. 248,939
3 Claims. (Cl. 255—51)

1. A drill centralizer for use with a drilling apparatus of the type having a pair of spaced rails disposed in a common plane and parallel to each other, a drill motor mounted on said rails, and a drill steel driven by said motor and extending parallel to said rails for engagement with the substance to be drilled, said drill steel being disposed approximately midway between said rails but being displaced a substantial distance from said common plane of said rails; which comprises a pair of brackets having corresponding cylindrical bores therein and mounted one on each of said rails adjacent the point of drilling, the axes of said bores being perpendicular to said common plane of said rails and being disposed in a transverse plane which is perpendicular to said drill steel and to said rails, a pair of arms respectively journalled at their inner ends in said bores and converging toward said drill



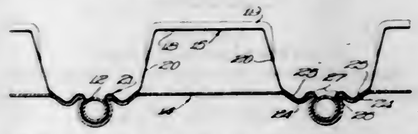
steel to form at the outer ends thereof complementary end faces, said end faces being canted relative to said arms to engage and guide opposite portions of said drill steel when said end faces are disposed wholly on the side of said transverse plane which is remote from said drill motor, and means to hold said arms in guiding position at which said end faces are disposed wholly on said side of said transverse plane remote from said drill motor.

2,661,190
CONDENSER WITH SUBCOOLER AND VENTING MEANS
Alton Kirkpatrick, Brighton, Mass., assignor to Stone & Webster Engineering Corporation, Boston, Mass., a corporation of Massachusetts
Application January 29, 1953, Serial No. 333,979
6 Claims. (Cl. 257—32)



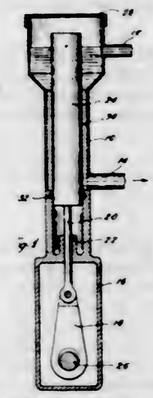
1. A vapor to liquid heat exchanger comprising a vertically disposed outer shell, said shell having an outlet to remove condensate and a vapor inlet, a bundle of cooling tubes disposed within said shell, means for circulating coolant in said tubes, an open ended inner shell within the lower portion of said outer shell but spaced apart from the walls thereof, said inner shell having a baffle section adjacent its upper end extending outwardly with its outer edges in sealing engagement with the walls of said outer shell to form a vent compartment and hold said inner shell in fixed position, at least one vent from said compartmen in said outer shell and at least one vent to said compartment in said inner shell, the total vent area in said outer shell being greater than the total vent area in said inner shell to positively remove non-condensible gases from within said heat exchanger, said condensate outlet being below said vents and said vapor inlet being above said baffle section.

2,661,191
HEAT EXCHANGER
Ray A. Sandberg, Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application February 8, 1950, Serial No. 143,010
10 Claims. (Cl. 257—256)



1. The method of making a heat exchanger which comprises forming a pair of parallel grooves in a first metal plate spaced a preselected extent of the first plate apart, forming a pair of parallel grooves in a second metal plate spaced a preselected extent of said second plate apart, said last mentioned extent being greater than said first mentioned extent and with respective grooves of said first and second plates nesting one within the other, bottoming a tube in the inner of said nesting grooves, and deforming the side walls of each of said grooves and intermediate contiguous portions of each of said plates radially inward of the tube to overlie a median diameter of said tube, thereby securely locking the tube in said grooves and said plates to one another in efficient heat transfer relation.

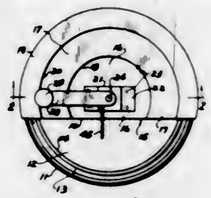
2,661,192
MEANS FOR TREATING MATERIALS WITH INTENSE ALTERNATING SHEAR FORCES
Caperton B. Horsley, Westwood, and Gordon C. Seavey, Arlington, Mass., assignors to Sonic Research Corporation, Boston, Mass., a corporation of Massachusetts
Application August 11, 1949, Serial No. 109,672
10 Claims. (Cl. 259—4)



1. A device for treating fluent materials with intense alternating shear forces which comprises a closed container whose walls define a confined

treating chamber adapted to hold said material, said container having inlet and outlet ports communicating with said chamber permitting the flow therethrough of said material for treatment, a treating member in said chamber, mountings for said treating member permitting vibration thereof in a predetermined mode of vibration, said member having an extended treating surface adapted to contact said material in said chamber, and vibratory driving mechanism connected in driving relation to said member for rapidly vibrating said surface as a whole according to said predetermined mode of vibration alternately in opposite directions so that every portion thereof moves substantially only within the boundary between said material and said surface for producing substantially only intense alternating shear forces in the material adjacent thereto.

2,661,193
FLUID STIRRING DEVICE
Marshall Silver, Huntington Woods, Mich.
Application January 2, 1952, Serial No. 264,549
5 Claims. (Cl. 259—107)



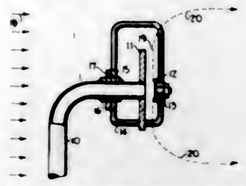
1. A paint stirring device adapted for use upon a cylindrical paint container comprising a centrally apertured substantially semi-circular plate positionable over the open end of said container, an upright bearing secured to said plate in registry with the aperture therein, a manually rotative upright shaft journalled through said bearing and plate and adapted to be projected down into said container, a substantially flat rectangularly shaped upright paddle secured at one upright edge to the lower end of said shaft, with its other upright edge adapted to be extended toward and in proximity to the interior surface of said container, and an upright paddle blade hinged at one upright edge to the other upright edge of said paddle and adapted for positioning in coplanar registry therewith.

2,661,194
MIXER FOR USE IN JETTING APPARATUS
Thomas L. Katovsich, St. Joseph County, Ind.
Application September 29, 1950, Serial No. 187,416
12 Claims. (Cl. 259—151)



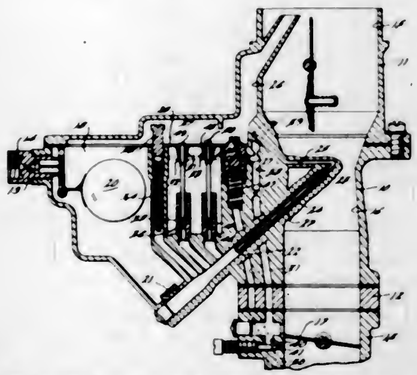
1. A mixer for mixing solids and a liquid and adapted to be interposed in a conduit, comprising a rigid tubular housing having a smooth inner surface and means at each end for attachment to a conduit, and a tubular liner formed of resilient material and having a plurality of spaced integral inwardly projecting helical ribs of substantial height extending for substantially the full length of said liner, the inner edges of said ribs outlining a central passage through said liner.

2,661,195
METHOD AND APPARATUS FOR ATOMIZING LIQUIDS
Pieter Martinus van Bemmel and Hans Milborn, Delft, Netherlands, assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware
Application February 27, 1951, Serial No. 212,844
Claims priority, application Netherlands February 28, 1950
18 Claims. (Cl. 261—30)



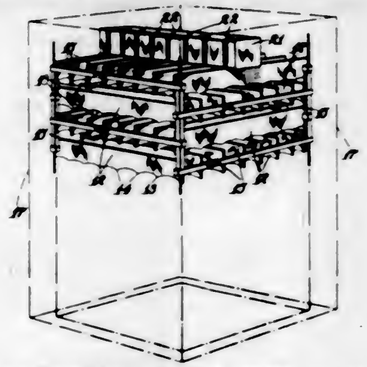
1. Method of atomizing liquids into fine droplets comprising the steps of supplying the liquid to be atomized onto an intermediate part of the surface of a liquid distributor and forming thereon a film of said liquid different parts of which have divergent velocities along said surface; flowing the liquid film divergently on said surface; discharging the liquid film from the said surface and flowing the discharged liquid as a diverging film through a substantially quiescent thinning space for a substantial distance to effect a thinning thereof, said liquid film being entirely out of engagement with any solid object after being discharged from said surface; continuing the flow of the thinned film beyond said quiescent thinning space; generating a current of atomizing gas and flowing said current substantially perpendicularly to the thinned film immediately beyond said quiescent thinning space; and engaging the thinned film only after emergence from said quiescent thinning space with said current of atomizing gas and thereby disrupting the thinned film into droplets and entraining said droplets in the current.

2,661,196
CARBURETOR
Thomas M. Ball, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 13, 1949, Serial No. 93,135
9 Claims. (Cl. 261—41)



1. In a carburetor adapted to supply fuel to an internal combustion engine having vacuum producing means, means defining a fuel reservoir, means defining a fuel and air mixing chamber, means defining an open fluid passage connecting the reservoir and the mixing chamber, means defining first and second supplemental fluid passages connecting said reservoir and said chamber, a valve in each of said supplemental passages and a common operator for said valves operable to open one of said valves under a first vacuum condition in said vacuum producing means and operable to open both of said valves under a second vacuum condition in said vacuum producing means.

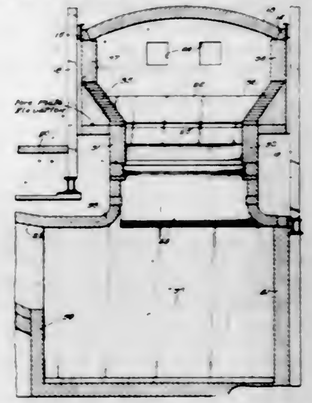
2,661,197
APPARATUS FOR TREATING GASES WITH LIQUIDS
William Stephens Norman, Chester, England, assignor to C. D. Patents Limited, London, England, a British company
Application October 10, 1949, Serial No. 120,479
Claims priority, application Great Britain July 6, 1949
4 Claims. (Cl. 261—112)



1. Apparatus for treating gases or vapours with liquids consisting of a tower containing a vertical series of horizontal grids, each grid made up of spaced parallel upright slats, the slats being serrated at their lower edges to provide spaced, downwardly projecting points, the direction of the slats of one grid being at right angles to the direction of the slats of the next grids, and each downwardly projecting point being arranged above a slat in the grid next below, means vertically spacing said slats and said points being spaced vertically above the upper edges of the slats of the next lower grid by a distance of one-eighth to three-eighths inch, so that liquid films descending on the surfaces of said slats form liquid drops at said downwardly projecting points which drops fall without disintegrating on to the edge of the slat below to cause a ripple to be formed in the liquid film on the upper edge of the lower slat without splashing or formation of fine liquid droplets.

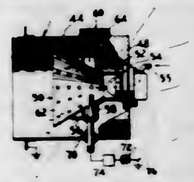
2,661,198
FURNACE END STRUCTURE
Joseph Morris Brashear, Chicago, Ill., assignor to Inland Steel Company, a corporation of Delaware
Application July 6, 1951, Serial No. 235,531
4 Claims. (Cl. 263—15)

1. In an open-hearth furnace having a hearth bed and a fuel supply at each end of the furnace, furnace end sections each comprising a wing wall on the front and back of the furnace, an end wall joining said wing walls, a chill box at each end of the hearth bed spaced inwardly from said end wall, a protective wall under and around said chill box, said walls enclosing a single uptake passage for conducting air from an air supply to the hearth bed, each wing wall having an intermediate portion placed inwardly toward the opposite wing wall and sloping wall surfaces



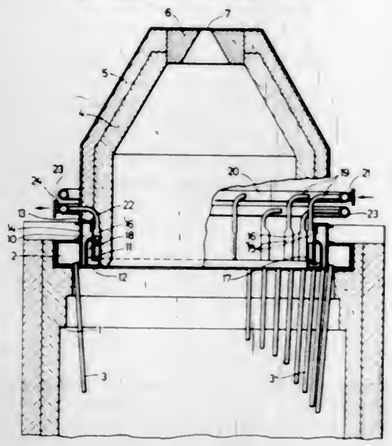
joining said portions with the remainder of the wing walls, said wing wall portions providing a restricted passage in the uptake intermediate its ends to direct air passing upwardly through the uptake away from the front and rear wing walls and toward the longitudinal center line of the furnace.

2,661,199
BURNER FOR LIQUID FUEL
Andrew P. Young, Roseland, and Ward E. Brigham, Packanack Lake, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application October 12, 1948, Serial No. 54,072
5 Claims. (Cl. 263—19)



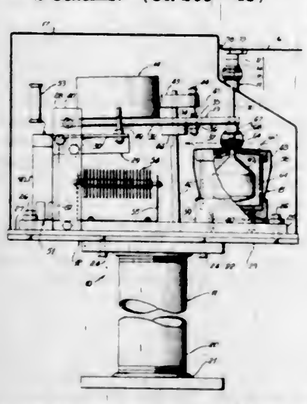
1. A liquid fuel burner comprising a substantially cylindrical shell closed at one end and delivering combustion products from the other, having a coaxial fuel nozzle in the closed end and a tangential air entry in the shell near said closed end, a perforated wide-angle combustion cone secured within and coaxial with the shell, the outside of said cone and the inside of said shell defining therebetween an air swirl chamber, the large end of said cone facing away from said closed end, and the edge of the large cone end defining with the shell an annular air passage through which part of the swirling air passes, and means including the cone perforations for feeding a part of said swirling air in said chamber through the cone perforations at the small end of the cone near said shell closed end, and means for feeding another part of the air through the cone perforations at a larger diameter part of said cone, both said means for feeding including hollow annular jackets embracing and secured to the cone, having openings therein connecting said swirl chamber with some of the cone perforations.

2,661,200
DEVICE IN HEAT EXCHANGER
Kjell Per Arne Ohlander, Stockholm, Sweden, assignor to Industrikemiska Aktiebolaget, Stockholm, Sweden, a company of Sweden
Application September 15, 1949, Serial No. 115,840
Claims priority, application Sweden
September 16, 1948
8 Claims. (Cl. 263—44)



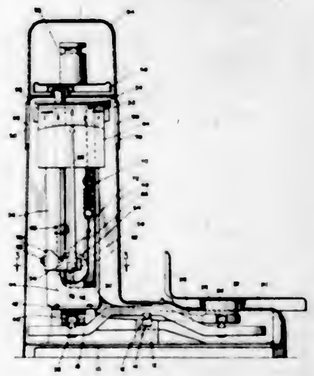
1. A heat exchanger comprising a vertical wall forming a heat exchange chamber, a refractory wall extending vertically above the top of said chamber forming a nozzle coaxial with said chamber for supplying heating gas thereto and directly exposed to the heating gas, a header for gaseous medium to be heated surrounding the lower end portion of said refractory wall, a plurality of tubes in said chamber connected to said header, a cooling jacket also surrounding a portion of said refractory wall adjacent the lower end thereof and on which said refractory wall is supported, said jacket having inlet and outlet connections thereto for a cooling medium.

2,661,201
CHECK WEIGHER
Leslie H. Bowes, Rittman, Ohio, assignor to Morton Salt Company, Rittman, Ohio, a corporation of Illinois
Application June 10, 1950, Serial No. 167,464
2 Claims. (Cl. 265—43)



1. In a check weigher of the class described, the combination comprising, a liquid carrying container, a float submerged in said liquid and providing a buoyant tare and standard counterweight for articles to be check weighed, a single rod member, having a relatively small diameter in comparison to said float, attached coaxially to said float and extending outwardly of said container, said rod riding freely in said liquid at its exit from said container, a pan member secured to the upper end of said rod for receiving articles to be check weighed, and a cantilever beam pivotally movable about a single axis remote laterally of said rod and fixedly attached at one end to said rod to guide said rod, pan and float along a fixed path of movement relative to said container.

2,661,202
OVER AND UNDERWEIGHT SCALE
Adrianus van Duyn, Hillegersberg, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Inc., La Porte, Ind., a corporation of Indiana
Application March 22, 1951, Serial No. 216,898
Claims priority, application Great Britain
November 14, 1950
13 Claims. (Cl. 265—58)



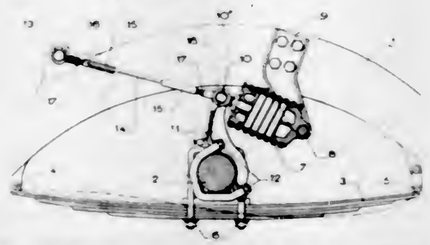
1. Weighing apparatus of the over- and underweight type comprising a frame, a centrally pivoted weigh beam, commodity receiving means adjacent one end of said beam, weight indicating means including a pointer and chart adjacent the opposite end of said beam, and counterpoise receiving means vertically aligned above said weight indicating means.

2,661,203
SHOCK ABSORBING DRAG STRUT FOR AIRCRAFT LANDING GEARS
Samuel A. Gordon, Baltimore, and Melvin P. Espy and Conrad H. Cooke, Baltimore County, Md., and Maurice G. Gertel, Boston, Mass., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application June 29, 1950, Serial No. 170,992
3 Claims. (Cl. 267—8)



1. A self-contained fluid type shock absorber having a tubular housing, a transverse partition within said housing forming a piston chamber and a reservoir chamber in axial alignment therewith, valve means carried by said partition for allowing unidirectional flow of fluid from said reservoir chamber to said piston chamber, said valve being automatically operable by the occurrence of a pressure differential between said chambers, a piston adapted for limited axial movement within said piston chamber, an aperture formed in said piston for allowing restricted flow of fluid therethrough, a piston rod carried by said piston and extending on either side thereof, one end of said rod being adapted for sliding engagement with said partition and the other end protruding axially beyond said housing, said housing being so vented to atmosphere that both ends of said rod have atmospheric pressure acting thereagainst, the portion of said rod extending within said piston chamber having a substantially constant cross-sectional area, thereby resulting in a substantially constant displacement volume irrespective of the axial position of said piston, and a compression spring acting between said housing and said piston and tending to maintain said piston in an extreme axial position in said piston chamber to fully extend said rod.

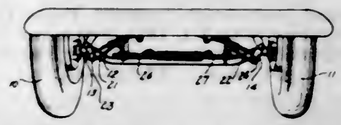
2,661,204
SUSPENSION OF VEHICLES
Jean Albert Gregoire, Paris, France
Application August 8, 1949, Serial No. 109,104
Claims priority, application France
August 17, 1948
6 Claims. (Cl. 267—16)



2. In a vehicle including a chassis and two wheels arranged symmetrically of the longitudinal vertical plane of symmetry of the vehicle, the combination with each wheel of a wheel carrier, a coil spring acting eccentrically on the wheel-carrier, and held between a point of the wheel-carrier and a point of the chassis, said two points defining a line that is substantially parallel with the vertical longitudinal plane of symmetry of the vehicle and that is sloping with reference to horizontality, a blade spring connecting the wheel-carrier with the chassis and lying substantially in the vertical plane passing through the axis of the coil spring and a practically non-extensible brace connecting the first point on the wheel carrier with a point of the chassis.

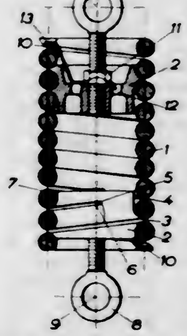
2,661,205
AUXILIARY SPRING FOR AUTOMOBILE LEAF SPRINGS
Flournoy Corey, Cedar Rapids, Iowa
Application October 19, 1949, Serial No. 122,288
2 Claims. (Cl. 267—28)

1. A device for modifying the spring action of a semi-elliptical leaf spring having shackle bolt formations disposed at each end thereof, comprising a pair of brackets each engaging, respectively, one of said shackle bolt formations; each of said brackets consisting of a flat strip of metal having a hook portion at one end thereof for engaging one of said shackle bolt formations, an inclined portion extending from said hook portion upwardly toward the lowermost face of said elliptical leaf spring, said inclined portion having a flat surface adjacent the uppermost end thereof and spaced a substantial distance from said hook portion for engaging the lowermost face of said spring, and a downwardly extending portion secured to the uppermost end of said inclined portion and provided with an opening;



rod members each having one end disposed in an opening of each of said bracket downwardly extending members and a free end having a hook formed thereon; means for adjustably securing the end of said rod disposed in said opening to said bracket; and a longitudinally extensible spring means connected to the hook portions of said rod members whereby said spring means may simultaneously exert forces on the shackle bolt formations of said elliptical spring and on the lowermost face thereof at points spaced inwardly from said shackle bolt formations.

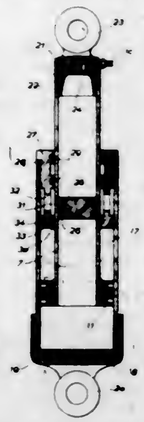
2,661,206
SUSPENSION DEVICE FOR VEHICLES
Jean Albert Gregoire, Paris, France
Application March 30, 1948, Serial No. 18,003
Claims priority, application France April 15, 1947
2 Claims. (Cl. 267—60)



1. In a suspension for vehicles: a coil suspension spring; an integral, screw threaded anchor member to transmit stresses between said spring and a vehicle frame; the screw threads of said member having the pitch of the coils of the spring; the separation of the threads conforming to the wire of the spring, and the threads of a thickness slightly greater than the normal separation of said successive coils of the spring; said member acting to segregate certain coils of the spring from participation in the action of the spring as such; positive locking means acting between the member and the spring to prevent relative rotation therebetween; means to transmit stresses from said anchor member to the vehicle frame, having adjustable screw threaded connection with the anchor member, whereby flexibility of the spring may be varied by variation

of the number of spring coils which are segregated, and the distance between points of attachment to the frame and to the wheeled support of the vehicle frame may be varied by the adjustment of the screw threaded connection between the anchor member and the last named stress transmitting means.

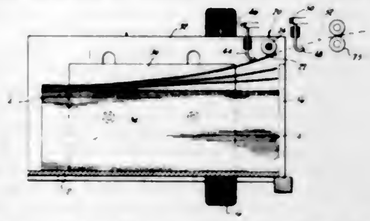
2,661,207
RESILIENT SHOCK-ABSORBING SUSPENSION DEVICE
Fernand Stanislas Allinquant, Paris, France
Application March 1, 1949, Serial No. 78,953
Claims priority, application France March 9, 1948
5 Claims. (Cl. 267—64)



1. In a resilient shock-absorbing suspension device, a lower member forming a cylinder having a top part of restricted diameter, an upper tubular member having a sealed top and a fully open bottom tightly slidable in said top part of restricted diameter of the cylinder, and an annular piston fitted on the bottom part of said tubular member and slidable in said cylinder, said upper member defining in said cylinder two separate spaces, liquid filling said members to a level above said cylinder, gas under pressure being confined in the remaining upper portion of said tubular member, said piston comprising spaced peripheral flanges engaging said cylinder and a portion of reduced cross section between said flanges providing an annular passageway between the piston and cylinder, spaced narrow passages being provided through said flanges and communicating with said annular passageway, said passageway being clear and unobstructed and providing the same resistance to fluid flow at all times and in both directions, said passageway being adapted to retard the flow of liquid from one to another of said spaces by a shearing action, and thus to cause a damping of the resilient movement of said upper member with respect to said lower member.

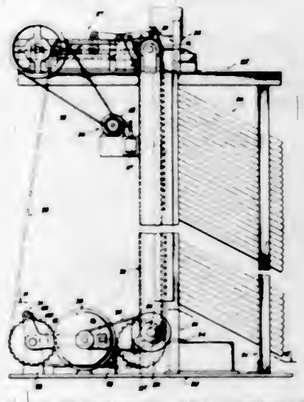
2,661,208
FEEDING OF MAGNETIC SHEET MATERIAL
Alexander Fowler, Brooklyn, N. Y., assignor to Hercules Electric & Mfg. Co., Inc., Brooklyn, N. Y., a corporation of New York
Application May 16, 1951, Serial No. 226,656
28 Claims. (Cl. 271—18)

1. The method of separating the end ferromagnetic sheet from a group of ferromagnetic sheets by magnetic repulsion between sheets, which includes passing a very feeble magnetic field through the entire group of sheets and relatively gradually increasing the strength of



the magnetic field passing through the entire group of sheets as a function of time until the end sheet has been moved away a desired distance.

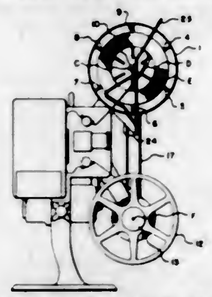
2,661,209
SHEET DISTRIBUTOR
David C. McGalliard, Short Hills, N. J.
Application June 18, 1949, Serial No. 100,033
11 Claims. (Cl. 271—64)



1. In a sheet distributor, the combination of a plurality of inclined trays for collecting sheets, a conveyor adjacent and movable past the upper ends of said trays for delivering sheets seriatim thereto, a gate for each of said trays between said conveyor and said trays, said gates being pivotally mounted and adapted in one position to direct sheets into said trays and in another position to prevent the entry of sheets into said trays, tripping and resetting means on each of said gates, photo-electric means responsive to the entry of sheets into said trays, and means under the control of said photo-electric means for directing sheets into said trays successively, said last means including a chain for actuating said tripping and resetting means step by step, whereby said gates are moved successively from said one position to the other position.

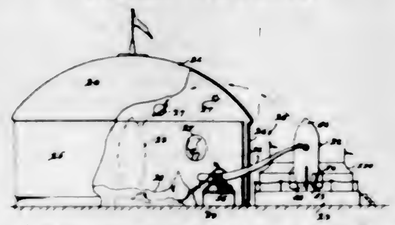
2,661,210
FILM REEL FOR MOTION-PICTURE PROJECTORS
Robert S. Yeats, San Diego, Calif.
Application July 31, 1950, Serial No. 176,886
4 Claims. (Cl. 271—2.17)

1. A motion picture projection supply reel can having an open side and a substantially flat side, means for peripherally engaging a roll of film comprising a pair of plates within said can and parallel to said flat side, the first of said plates having radial slots therein, the second of said plates having spiral slots of similar width, one of said plates being secured to said flat side, the other plate being rotatably mounted on said flat side, pins in said slots projecting therethrough



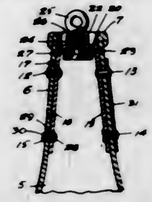
and engageable with the periphery of a roll of film, said pins having heads larger than the transverse dimension of said slots and said heads being slidably held between said flat side and the plate proximate to said flat side.

2,661,211
ROCKET SHIP AMUSEMENT APPARATUS
Earl A. Campbell, Owosso, Mich.
Application December 21, 1951, Serial No. 262,827
6 Claims. (Cl. 272—18)



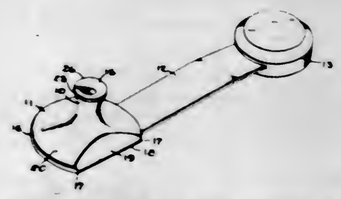
1. An amusement apparatus comprising, in combination, a relatively large enclosure including a side wall, a dome-shaped roof and a floor and having a single relatively large opening formed in portions of the roof and side wall, the inner surface of the side wall and roof having illuminated portions simulating celestial bodies including the "Earth," said floor simulating the rough barren surface of a celestial body; a pair of carrier supporting arms mounted for swinging movement through the enclosure opening, means disposed within the enclosure on which said arms are swingably mounted adjacent corresponding ends of the arms for swinging movement of opposite remote ends of the arms to and from positions externally and internally of the enclosure, a power source for imparting motion to said means in either direction, a rocket-shaped carrier swingably supported adjacent one end thereof between the last mentioned remote ends of the arms for swinging movement therewith into and out of the enclosure through the opening thereof and for swinging movement relatively to the arms for maintaining the carrier in an upright position in all positions of the arms, an entrance and exit door adjacent the bottom of said carrier by means of which passengers may enter and leave the carrier, a passenger compartment within the carrier, and control means for operating the power source from within the carrier for imparting motion to the arms for conveying the carrier from a position externally of the enclosure to a position within the enclosure or conversely.

2,661,212
STRIKING BAG CONSTRUCTION
Albert F. Hilton, Cincinnati, Ohio
Application September 1, 1950, Serial No. 182,736
2 Claims. (Cl. 272—77)



1. In combination, a flexible striking bag having a reduced neck open and reinforced annularly at the upper end of the bag, a substantially rigid anchor member including a connecting base, and a plurality of spaced rigid legs extending from said connecting base in a common direction, the spacing of the legs corresponding substantially with the inside diameter of the neck of the bag, means fixing the legs interiorly of the bag neck with the connecting base of the anchor member disposed inside the reinforced annular open end of the bag neck, and a swivel head including a rotary body abutting the connecting base, said body being surrounded by the reinforced annular open end of the bag neck, an eye on the swivel head exposed beyond the bag neck, and a pivot connecting the body of the swivel head to the connecting base of the anchor member.

2,661,213
RUBBER GOLF TEE WITH HOLLOW BASE
Paul J. Barnard, Rockford, Ill.
Application January 2, 1951, Serial No. 203,981
2 Claims. (Cl. 273—33)



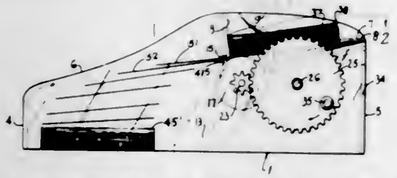
1. A golf tee molded from rubber and comprising a shallow frusto-conical disk-like flexible base, a post upstanding from said base along the axis thereof and terminating in a cup for receiving an ordinary golf ball, the periphery of said base being defined in part by an arc concentric with said axis and in part by a chord spaced from said axis a distance less than the radius of said ball so as to be disposed out of contact with the face of a golf club striking a ball supported on said cup, a bead extending around and depending from said base around the entire periphery thereof, angularly spaced ribs depending from the bottom of said base and radiating from said axis to said bead, one of said ribs being integral with the center of the chordal portion of said bead, a weight adapted to rest upon the ground at a point spaced from said base, and a flexible band connecting the outer peripheries of said base and said weight with the lines of connection disposed above the planes of the bottom surfaces of the base and weight, said band extending substantially parallel to said chord.

2,661,214
RACING GAME APPARATUS
Alfred German Rose, Gainsborough, and Kenneth Howard Nicholls, Bromley, England
Application December 4, 1948, Serial No. 63,572
9 Claims. (Cl. 273—86)



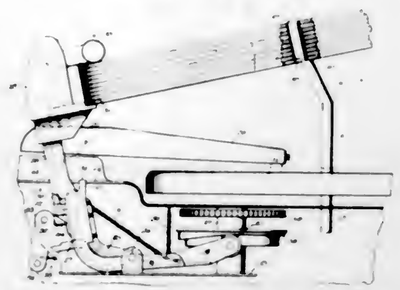
4. A toy of the kind in which figures each progress unaided by rocking alternately on two limb members, comprising a plurality of inclined tracks, a plurality of figures, there being one of said figures for each of said tracks, controlling surfaces disposed below and lengthwise of said tracks respectively, a shaft mounting each controlling surface for rotation on an axis extending lengthwise with respect to its track, each of said figures having a body portion with a fixed limb member and a pivoted limb member, said pivoted limb member and the body portion swinging forwardly alternately as the figure rocks on the track on the two limb members, a thin blade-like projection extending from one of the limb members, each track having a narrow slot for the passage of said projection through the track so as to allow the projection periodically to engage the related controlling surface during rocking motion of the figure and thus interfere with the free oscillation of the figure during progression, each of said controlling surfaces embodying portions of different height which vary as to length and relative position so that at any setting of said shaft a surface is presented to said projection for the aforesaid purpose, and a common controlling member for moving the respective shafts of said controlling surfaces.

2,661,215
CARD SHUFFLER
Fred H. Stevens, Houston, Tex.
Application March 6, 1950, Serial No. 147,815
7 Claims. (Cl. 273—149)



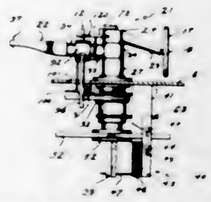
1. A card shuffler including, a frame, a shaft mounted in said frame, co-axially extending, tapered rollers on said shaft with their smaller diameters inwardly and substantially in contact, means to rotate said shaft, means adapted to support adjacent decks of cards at different vertical angles and with the bottom card of each deck in contact with said rollers so that rotation of the rollers moves the bottom cards from the support means and moves the forward corners of the cards inwardly so that a card from the deck supported at the lesser vertical angle tends to fall upon an adjacent card from the deck supported at the greater vertical angle, said frame being tapered into a bow to tend to deflect said cards from adjacent support means inwardly to tend to insure that said cards fall alternately into a single stacked pile.

2,661,216
PHONOGRAPH RECORD CHANGER
Donald H. Mills and Arthur L. Knox, Fort Wayne, Ind., assignors to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware
Application June 17, 1947, Serial No. 755,042
4 Claims. (Cl. 274—10)



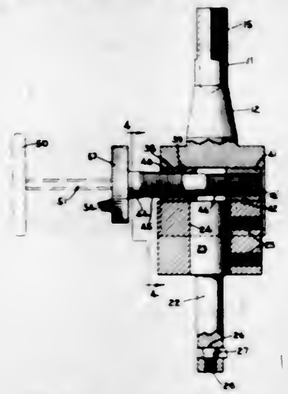
1. In a phonograph record changer, the combination comprising a record stack supporting spindle and a shiftable record periphery supporting shelf; means for advancing and retracting the shelf with respect to the spindle; said means comprising a power actuated shiftable operating member; means to bias the shelf toward the record supporting spindle, plural position latching means to adjust the position of the record shelf with respect to the shiftable operating member, a pressure pad shiftable between an operating position bearing against a record on the spindle and an inoperative position disengaged from the records, and means operatively associated with and responsive to movement of said pressure pad to its inoperative position to disengage the latching means.

2,661,217
RECORD PLAYING DEVICE
Franz L. Bidinger, Kenosha, Wis.
Application December 3, 1947, Serial No. 789,436
1 Claim. (Cl. 274—10)



In a record playing device: a horizontal turntable; a number of upright rotatable posts mounted for up and down motion in juxtaposition to the turntable and connected with one another to rotate in unison about their axes; a wheel mounted on each post to move bodily therewith and rotatable on a horizontal axis, whereby the wheels are movable bodily in unison toward and from the turntable axis from operative positions tracking on the turntable with their axes normal to the turntable axis, to inoperative positions away from the turntable axis and off of the turntable, said wheels being adapted to support a record on their peripheries in spaced superimposed relationship to the turntable and to rotate said record by frictional contact of the peripheries of the wheels with the turntable or a record thereon and the underside of the record supported on the wheels; mechanism connected with certain of said posts for swinging said wheels bodily and in unison toward and from the turntable axis so as to effect transfer of a record from the wheels to the turntable during motion of the wheels to their inoperative positions; and means supporting said wheels at successively higher levels in consequence of such transfer of a number of records from the wheels to the turntable, said last named means comprising comb structures mounted adjacent to the posts and having substantially vertically equispaced teeth providing a series of substantially horizontal supporting ledges, and blades fixed to the posts and movable into spaces between adjacent teeth on the adjacent comb structures in consequence of rotation of the posts in directions to carry the wheels away from the turntable axis.

2,661,218
OFFSET BORING HEAD
Raymond M. Snow and Herbert Ray Snow, Fresno, Calif.
Application April 17, 1950, Serial No. 156,254
3 Claims. (Cl. 279—6)



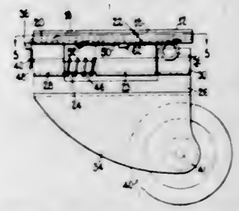
1. An adjustable tool holder comprising a mounting block adapted to be supported and rotated coaxially of a rotatable spindle, an adjustable block slideably supported on the fixed block for positioning radially, of the axis of rotation, a radially extending screw threadedly engaged with one of the blocks with screw threads of one pitch and threadedly engaged with the other block with threads of a different pitch, the screw having an enlarged cylindrical head at one end exteriorly of the blocks calibrated on its periphery, a vernier block slideably supported on the fixed block axially parallel to the axis of the screw, and means for urging the vernier block outwardly into constant engagement with the enlarged head of the screw.

2,661,219
FLEXIBLE SKI
Bevis P. Coulson, Jr., Schenectady, N. Y.
Application December 31, 1948, Serial No. 68,621
4 Claims. (Cl. 280—11.13)



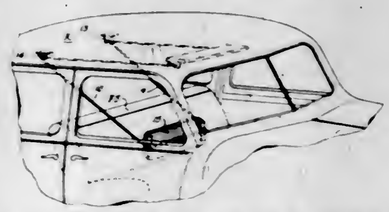
4. In a flexible ski, a section comprising a ski bottom portion, a ski top portion, spacers defining, together with said portions, a slot elongated in a direction lengthwise of said ski, and a resilient stop member positioned in said slot approximately midway of the length of the slot, said stop member having a substantially rigid member embedded therein whereby deflection of said bottom and top portions toward each other is limited by said stop member.

2,661,220
WHEEL ASSEMBLY FOR SUITCASES OR THE LIKE
Francis W. Davis, Belmont, Mass.
Application October 1, 1949, Serial No. 119,154
1 Claim. (Cl. 280—39)



A wheel assembly for a suit-case or the like, comprising a flanged anchor plate, a base plate having an intermediate portion bent out of the plane of the base plate and curled to form a hollow cylinder parallel to the longitudinal axis of the base plate, said base plate also having an end flap bent at right angles to the plane thereof and with a hole therein, a bracket consisting of two preformed pieces of sheet metal permanently secured together, said pieces being formed to provide two aligned hollow cylinders to act with the hollow cylinder of the base plate as hinge elements, a hinge pin fitted in the three said cylinders, said metal pieces also including a locking nose normally engaged in said hole and a pair of spaced parallel arms, a wheel revolubly mounted between said arms, spring means yieldingly maintaining said locking nose in said hole, and a spring mounted on said base plate and releasably engaging said anchor plate to lock the wheel assembly together.

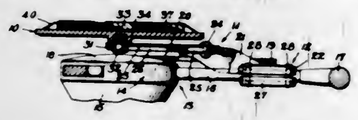
2,661,221
SAFETY PASSENGER HOLDING DEVICE FOR AUTOMOTIVE VEHICLES
David W. Lockwood, Evanston, and Wesley E. Bowman, Kenilworth, Ill.
Application April 24, 1951, Serial No. 222,668
3 Claims. (Cl. 280—150)



1. A safety device for use by a person on a seat in an automotive vehicle comprising a frame including spaced apart rigid arms, a mounting means on the roof of the vehicle to the rear of the seat, end portions of the arms being pivotally connected with the mounting means, a supported padding pivotally mounted adjacent the opposite end portions of the arms remote from the mounting means, the arms being adapted to extend past the seated person with the padding disposed in front of the person, the positioning of the mounting means with the arms pivotally

connected thereto rearwardly of the seat and extending past the person and the padding which absorbs produced shock serving to confine and prevent the person from being thrown forwardly in the vehicle, and friction means associated with the pivotal connection for maintaining the frame substantially parallel with the vehicle roof when not in use.

2,661,222
STEERING WHEEL MOUNTED HOLDER
Thomas Wolfe, Pasadena, Calif.
Application July 18, 1951, Serial No. 237,455
7 Claims. (Cl. 281—1)



1. In a holder of the class described, for the steering wheel of an automotive vehicle: supporting means attachable to said steering wheel and having a portion arranged to extend over the center of the steering wheel when the supporting means is attached to the steering wheel; and an easel pivotally attached in substantially vertical alignment with the center of the steering wheel to said portion on a single non-vertical axis that is fixed with reference to said supporting means, said easel having a portion below said axis of greater weight than its portion above said axis, whereby said easel will be gravity actuated to remain in an upright, non rotating position irrespective of rotation of the steering wheel.

2,661,223
BOOK FOR MAKING GARMENT BELTS
Salvatore Guggino, New York, N. Y.
Application June 23, 1950, Serial No. 169,839
1 Claim. (Cl. 281—15)



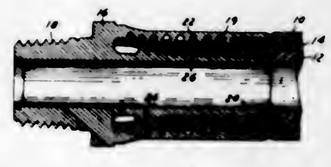
A book for carrying a plurality of patterns comprising a plurality of superimposed sheets, each sheet carrying a pattern, means securing said sheets together at one end thereof, a slit in each sheet adjacent the other free end, and a tab on each sheet extended from the free end of said sheet adjacent the slit, the tabs and slits being adapted to interlock when selected sheets are bent back, thereby exposing a single sheet to use.

2,661,224
LETTER PAD
Martin Gaber, Chicago, Ill.
Application May 24, 1950, Serial No. 163,913
2 Claims. (Cl. 282—22)



1. A letter pad comprising a plurality of bottom sheets stacked one over the other and secured one to another along one edge portion, perforations across each bottom sheet in the near vicinity of the connected edge to permit easy separation thereof from the stack, a top sheet overlying each bottom sheet and having letter writing space in the body portion thereof, the top sheet and the underlying bottom sheet being joined along an edge portion other than that by which the bottom sheets are secured one to another, tear lines along which the top sheet is separable from the bottom extending through the intermediate portion of the meeting edge between the top sheet and the bottom sheet for about one half the distance across the sheet, then extending upwardly to tear lines extending across the remainder of the sheet a short distance from the meeting edge, adhesive on that portion of the top sheet above the tear line along the meeting edge, and a carbon fixed onto the top of the stack along an edge portion corresponding with that of the bottom sheets for insertion between the uppermost top and bottom sheet when in position of use.

2,661,225
HOSE CLAMP FITTING CONNECTION
Gilbert T. Lyon, Van Dyke, Mich.
Application January 14, 1950, Serial No. 138,594
4 Claims. (Cl. 285—84)



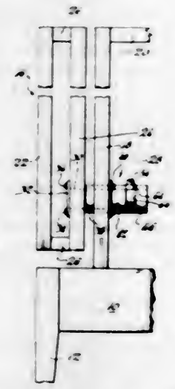
1. In combination, a coupling body in the form of a rigid unit having a tubular shell and a tubular nipple disposed axially within the shell spaced radially therefrom, opposed surfaces of the shell and nipple provided throughout that portion of their axial length from adjacent to the inner end of the shell to a point spaced from the outer end thereof with opposed cooperating gripping protuberances, said opposed protuberances approaching substantially more closely to each other adjacent to the inner end of the shell than adjacent to the outer end thereof, a hose having a reinforcing metal core layer and inner and outer non-metallic layers secured to the core layer and stripped therefrom from one end of the hose for a portion of the length of the hose less than the axial extent of the opposed protuberances of the shell and nipple, said metal core layer having the outer non-metallic layer stripped therefrom throughout a greater axial length than the inner non-metallic layer is stripped therefrom to thereby form terminal, intermediate, and normal sections, said end of the hose received over the nipple within the shell, said shell contracted about the hose gripping the hose between the shell and the nipple and gripping the same directly upon both sides of the terminal metal layer section adjacent to the inner end of the shell and gripping the hose directly upon the non-metallic inner and outer layers along the normal section adjacent to the outer end of the shell and gripping the hose directly upon the exposed metal layer on the outside and upon the inner non-metallic layer on the inside throughout the intermediate section lying between the ends of the shell and nipple, the terminal and intermediate hose section-engaging portions of said shell and nipple each comprising a plurality of said cooperating protuberances.

2,661,226
SEALING ASSEMBLY
Lawrence G. Saywell, San Mateo, Calif., assignor to Saywell Associates, South San Francisco, Calif., a joint venture
Application July 19, 1949, Serial No. 105,480
1 Claim. (Cl. 286—11)



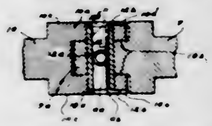
In a sealing assembly for sealing between relatively rotatable inner and outer aligned parts, a pair of outer spring metal annuluses having fluid-tight sealing engagement with the outer part and extending inwardly, a pair of inner spring metal annuluses having fluid-tight engagement with the inner part and extending outwardly, the two pairs of annuluses having overlapping margins, the annuluses of each pair being spaced apart for the major portion of their radial extent, one pair of annuluses being in overlapping contact with the exterior faces of the other pair, said one pair of annuluses being stressed laterally in opposite directions to press upon and pinch the interposed margins of the other pair of annuluses, the axial spacing and relative dimensions of said pairs of annuluses being such that said one pair is stiffer than said other pair and pinches and margins of the other pair into interface pressure contact for a substantial distance inwardly of the overlapped edges thereof and such that the bearing pressure between the said pairs is greatest at the free peripheral edges of said one pair of annuluses.

2,661,227
PIVOT FOR CHAIR ARMS OR THE LIKE
William H. Murphy, Chicago, Ill.
Application June 24, 1948, Serial No. 35,045
14 Claims. (Cl. 287—93)



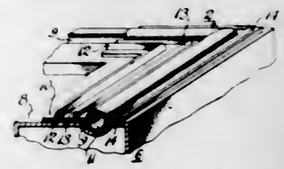
5. A pivot of the type described comprising a pair of tubular sleevelike members, one of which is adapted for attachment to one member and the other of which is adapted for attachment to a third member, said tubular members being relatively rotatable to permit pivotal movement of said tubular members, means for guiding and limiting relative rotational movement therebetween comprising a circumferential slot in one of said tubular members and an adjustable stop member fixed to the other tubular member and projecting into said slot, and means for restraining relative rotational movement between said tubular members comprising a spring pressed brake shoe means including a spring mounted in one of said tubular members, an aperture extending through the side wall of said other tubular member, and means for both locking said stop member and compressing said spring thereby to project said brake shoe means through said aperture into frictional engagement with the side wall of the other member.

2,661,228
PIVOTAL CONSTRUCTION
Richard C. Wilson, Minneapolis, Minn., assignor to Northern Pump Company, Fridley, Minn., a corporation of Minnesota
Application January 30, 1950, Serial No. 141,207
2 Claims. (Cl. 287—96)



1. A pivoted connecting structure having in combination, a pair of members one of which has a bifurcated end and the other of which has a reduced end portion fitting between the bifurcations of said first mentioned member, said first mentioned member having outer flat surfaces, said members having a common bore therethrough with its axis perpendicular to said flat surfaces, a cylindrical hinge pin disposed in said bore with its ends substantially flush with said flat surfaces, said pin having a counterbore in each end, a one-piece locking member formed of a small rod or wire of resilient material, said locking member having a coil formed between its ends and disposed in said bore, said locking member having its ends bent transversely, said flat surfaces having slots formed therein extending radially from said counterbores, each of said bent ends extending through the wall of the counterbore adjacent thereto and disposed in one of said slots.

2,661,229
SEALING GASKET
Bernard J. Slaughter, Jr., Cincinnati, Ohio, assignor to The Crane & Breed Casket Company, Cincinnati, Ohio, a corporation of Ohio
Application December 2, 1950, Serial No. 198,827
1 Claim. (Cl. 288—23)



A one piece marginal gasket adapted to extend around the periphery of the body of a casket and form a seal between the casket lid and body com-

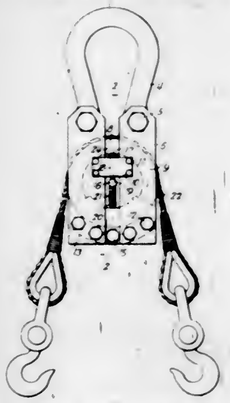
prising a rectangular member having side and end members unitarily connected at the corners and composed of a relatively wide strip of rubber-like material having a hollow tubular section disposed between the center-line of the strip and the outermost edge thereof, the tubular section being integral with the strip, said strip having on the lid seating face between the tubular section and the outermost edge an upwardly projecting solid rib that is parallel to said edge, said strip having on said seating face between the innermost edge and said tubular section, upwardly projecting spaced solid ribs extending parallel to said innermost edge, the rib adjacent said innermost edge being higher than said other ribs, the tubular section being higher than the ribs.

2,661,230
KNOT TYING MECHANISM
Edward E. West, Richmond, Va.
Application September 24, 1948, Serial No. 51,042
13 Claims. (Cl. 289—12)



1. In a machine for tying a knot in a drawstring of a bag, the combination of a rotatable knotter barrel, a drawstring engaging finger, a pivoted arm positioned above the rotatable knotter barrel, said arm entering the looped end of a drawstring and supporting a filled bag by said drawstring with a portion of the drawstring intermediate the ends thereof extending across the knotter barrel, a support on which said arm is pivoted, means for limiting the pivoted movement of the arm about said support, and a spring connected between the arm and the support, said spring urging the arm toward the upper limit of its pivotal movement.

2,661,231
SLING
Leslie M. Caldwell, Rockford, Ill.
Application August 25, 1948, Serial No. 46,005
4 Claims. (Cl. 294—1)



1. A sling of the class described, comprising a load carrying frame consisting of spaced side members, a pulley wheel rotatably mounted between said side members and movable bodily downwardly relative thereto under load, spring means resisting downward movement of said wheel, a flexible load carrying cable of substantially circular cross-section extending only over the top half portion of said pulley and having means at its opposite ends for attachment to the load to be lifted, said wheel having a circumferentially extending cable receiving V-groove of inwardly tapering form, said wheel having an outwardly tapering V-form at its periphery, the included angle of the cable groove being slightly smaller than the included angle of the outwardly tapering peripheral portion of said wheel so that the wheel will slip and not the cable in the event some equalization is necessary after the initial setting of the wheel when the load is lifted, and arcuate brake shoes disposed on opposite sides of said wheel below the same and between the side members of said frame and having upwardly diverging surfaces between which the tapered portion of said wheel is adapted to have surface to surface wedging braking contact.

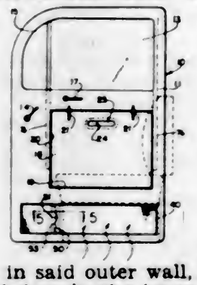
2,661,232
DRILLING HOOK ASSEMBLY
Spencer W. Long, Inglewood, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 21, 1951, Serial No. 227,426
9 Claims. (Cl. 294—82)



1. Apparatus of the class described comprising in combination: a nonrotary housing, an axially movable stem telescopically received in said housing, spring means in the housing for supporting the stem, means preventing relative turning movement between the stem and the housing, a head on the lower end of the stem, a thrust bearing assembly mounted on said head, a load carrying member, a sleeve member connected to the load carrying member and supported on the thrust bearing assembly, the sleeve member having a tubular extension encircling a portion of the stem, and the housing having an axial bore slidably receiving said tubular extension.

2,661,233
VEHICLE DOOR CONSTRUCTION FORMING BED PORTION
Kennith S. Sidel, St. Louis, Mo.
Application April 11, 1952, Serial No. 281,705
2 Claims. (Cl. 296—44)

1. A device of the character described comprising in combination with a vehicle having a conventional seat and a door adjacent to said seat, the provision of an extension for said vehicle seat mounted in said door, and ventilating means mounted in said door, said door having an outer wall and an inner wall, said extension including a door in said inner wall, a pair of



coacting doors in said outer wall, linkage interconnecting said door in the inner wall with the doors in the outer wall whereby movement outwardly of the door in the inner wall causes the doors of the outer wall to move outwardly, said inner door thereby forming an extension of said conventional seat.

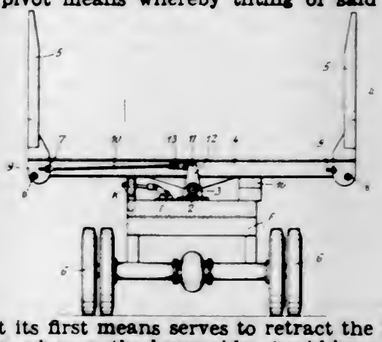
2,661,234
SLIDING ROOF FOR VEHICLES
William Henry Bishop, Birmingham, England
Application October 14, 1950, Serial No. 190,118
6 Claims. (Cl. 296—137)



4. A sliding roof of the kind set forth for vehicles comprising inwardly directed flanges on the sides of the roof opening, upwardly and outwardly directed flexible sealing members on the side edges of the sliding panel for sliding engagement with said flanges, a water check frame extending along at least each side of said roof opening below said sliding panel, a slide pivotally mounted on each side of said panel adjacent to its front end and engaging slidably with a longitudinal guide flange on the watercheck frame, a gap in said guide flange adjacent to the rear end of the roof opening, and a movable stop for normally arresting the rearward movement of the panel before the slide reaches the gap, said stop being movable to permit the panel to be slid rearwardly beyond its normal open position to bring the slide into alignment with the gap so that the slide can be lifted through the gap and the panel can be readily detached from the roof.

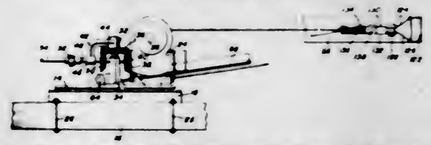
2,661,235
VEHICLE FOR TIMBER TRANSPORT
Ludvik Isachsen, Larvik, Norway
Application June 22, 1951, Serial No. 233,083
Claims priority, application Norway July 5, 1950
2 Claims. (Cl. 298—18)

1. In a vehicle, a fixed frame, a load supporting cross beam, pivot means pivotally mounting said beam on said frame for tilting movement in the transverse direction of said frame, side posts pivoted to the ends of said beam to confine the load on said beam, a bracket on said frame, latching members on said cross beam securing said posts in load confining position, said latching members being retractible toward the pivot means for releasing said posts, links connected to said latching members, said links being connected to said frame at a point spaced above said pivot means whereby tilting of said beam



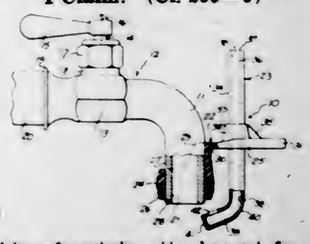
about its first means serves to retract the latching member on the lower side of said beam.

2,661,236
WINCH AND SPRING SUSPENSION CONSTRUCTION FOR DUMP TRAILERS
Edwin A. Schonrock, San Angelo, Tex.
Application March 26, 1952, Serial No. 278,546
5 Claims. (Cl. 298—20)



2. In a dump trailer construction, a fifth wheel mounted upon a tractor vehicle, a dump trailer body, a pair of lift arms pivoted to said fifth wheel and to said body and coupling said body to said fifth wheel, a tandem rear axle assembly, means pivotally mounting said body upon said axle assembly, pulleys mounted upon said body, a winch mounted upon said fifth wheel, a cable connecting said pulleys and said winch, means operatively connecting said winch to the power take-off of said tractor vehicle, said connecting means comprising a vertical drive shaft disposed axially of said fifth wheel, said winch comprising a drum mounted upon the upper end of said vertical drive shaft, a gear secured to the lower end of said vertical drive shaft below said fifth wheel, a power transmitting shaft operatively connected to said gear and to a tractor vehicle power take-off.

2,661,237
DRINKING FOUNTAIN ATTACHMENT FOR FAUCETS
John W. Swartz, Dearborn, Mich.
Application October 8, 1951, Serial No. 250,245
1 Claim. (Cl. 299—9)



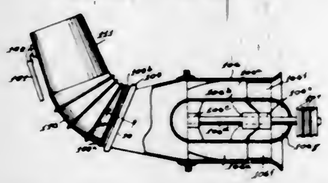
A drinking fountain attachment for mounting upon a faucet spout, said attachment comprising a resiliently-mounted bracket member of elastic deformable material having a clamping portion adapted to clampingly engage the faucet spout adjacent the discharge end thereof, said

bracket member having an arm portion projecting therefrom, and a fountain tube mounted in an approximately upright position on said arm portion and having a bent lower end portion with a water inlet port therein, and swingable in a substantially vertical plane around a substantially horizontal pivot axis relatively to said clamping portion, and said end portion of said fountain tube being normally disposed out of alignment with said discharge end of said spout and selectively movable in response to such swinging of said fountain tube into and out of the path of the water emerging from said faucet spout.

2,661,238
IMPREGNATED METAL AND METHOD OF PRODUCING SAME
Aldo P. Osti and Marian Balicki, Brooklyn, N. Y.
No Drawing. Application March 17, 1953, Serial No. 342,956
17 Claims. (Cl. 299—24)

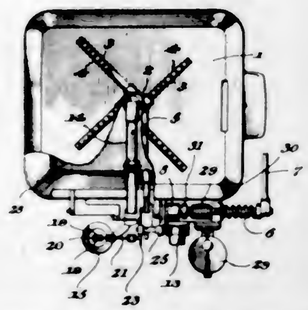
1. A device for emanating vapors into a surrounding atmosphere comprising a porous metal body having interconnected voids communicating with each other and with the surface of the metal body, said voids being impregnated with a liquid impregnant capable of slowly vaporizing at normal temperatures and pressures, the aggregate cross-sectional area, per unit area, of the voids at the surface of the metal body being less than the aggregate cross-sectional area, per unit area, of the voids within the metal body to retard vaporization of the liquid impregnant within said voids.

2,661,239
MIST BLOWER
George E. Tirrell, Greenfield, Mass., assignor to A. B. Farquhar Company, York, Pa., a corporation of Pennsylvania
Application April 15, 1949, Serial No. 87,811
5 Claims. (Cl. 299—42)



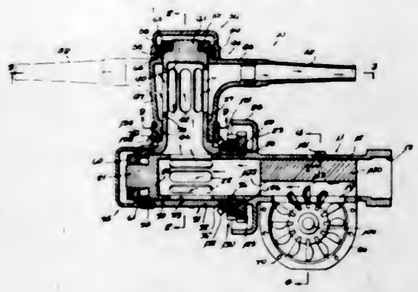
1. A mist blower comprising a wind tube having inlet and outlet openings, an air impeller of the axial flow type axially disposed within and between the ends of the tube and having a hub, the impeller having a shaft, a drive connection to the shaft and external to the wind tube, a power motor outside the tube and a sufficient distance from the tube entrance to avoid interference with the incoming air to the tube and operatively connected to the drive connection, a shell surrounding the shaft, substantially uniformly spaced from the wall of the tube and forming a continuation of the hub, streamlined ends for the shell and hub, straightening vanes between the tube and shell for straightening the air current flow from the impeller and located down stream of the impeller, an air outlet portion adjacent the tube outlet, an angular section for receiving the air from the outlet portion and having a tapered nozzle portion at its end, a liquid delivery jet adjacent the discharge opening of the nozzle, the spaces between the vanes and the space between the down stream ends of the vanes to the liquid delivery jet being unobstructed to thereby produce an unobstructed air current between the impeller and tube end forming an unobstructed annular current which merges beyond the streamlined shell-end to form a current of substantially uninterrupted cross section to the jet adjacent the nozzle opening.

2,661,240
WASHING-UP MACHINE
Sven Gunnar Salomonsson, Sibbhult, Sweden, assignor to Aktiebolaget Färe Armaturfabrik, Sibbhult, Sweden, a corporation of Sweden
Application May 10, 1951, Serial No. 225,469
Claims priority, application Sweden March 29, 1951
3 Claims. (Cl. 299—62)



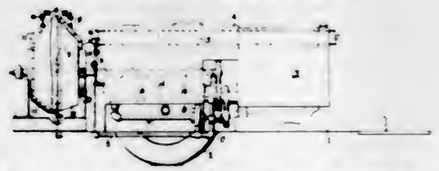
1. Spraying mechanism comprising a spray head, a liquid supply, conduit means connecting said spray head with said supply, a controllable valve device in said conduit means, control means for said valve device, a piston pump inserted in a portion of said conduit means between said valve device and said spray head, a piston rod connected to the piston of said piston pump, an operating shaft connecting said control means with said valve device, movement transmitting means connecting said piston rod with said operating shaft, a cam member carried by said operating shaft, said cam member being operable upon angular displacement of said operating shaft to urge the movable member of said valve device into its opening position, whereby upon operation of said control means the liquid pressure in said conduit means may be increased.

2,661,241
DEVICE FOR WASHING OIL TANKS WITH WATER AND THE LIKE DEVICES
Joseph B. Veneziano, Brooklyn, N. Y.
Application January 19, 1951, Serial No. 206,823
12 Claims. (Cl. 299—67)



1. A device of the character described comprising a longitudinal inlet pipe having an inlet opening at one end and provided with an end wall at its opposite end and being formed with an opening adjacent the closed end, said inlet pipe being formed with a longitudinal slot adjacent its inlet end, a T-shaped member having a sleeve portion rotatably mounted on the first pipe, a second pipe extending from said sleeve portion radially relative to the first pipe and communicating therewith, said second pipe having an outer end wall and being formed with an opening adjacent thereto, a chambered member rotatably mounted on the second pipe and being provided with a nozzle communicating with the second pipe through said opening therein, a casing attached to the first pipe and having a chamber communicating therewith through said longitudinal slot, a water wheel mounted for rotation in said chamber and projecting through said slot and into said first pipe, a gear fixed to said sleeve portion, a second gear mounted for rotation on said sleeve portion, reduction gearing connecting said water wheel with said pair of gears for rotating the latter when the water wheel is rotated, a bevel gear fixed to said second gear, and a bevel gear on said chambered member meshing with the first bevel gear.

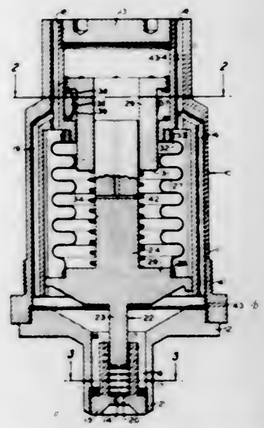
2,661,242
SPRAYING MACHINE
Karl R. Kursbin, San Jose, Calif., assignor, by mesne assignments, to Robert W. Ryder
Application January 27, 1948, Serial No. 4,583
6 Claims. (Cl. 299—86)



6. A spraying machine comprising a drive shaft, a plurality of circularly arranged fan blades secured to the shaft, a fan housing enclosing the fan blades, the said fan housing having two independently adjustable concave housing members normally secured together, each housing member having an arcuate peripheral air outlet opening of less than one hundred and eighty degrees in length and an axial inlet opening, a liquid manifold secured to each housing member, a row of spaced ejectors connected to and carried by each manifold and arranged in laterally spaced relation to the arcuate air outlet opening of its associated housing member, the ejectors of each row being arranged to direct jets of liquid spray material into the air stream issuing from the outlet opening of its associated housing member, a supply reservoir for the liquid spray material connected to the manifolds, pump means for withdrawing the liquid spray material from the reservoir and supplying it under pressure to the manifolds, and means associated with each manifold for controlling the amount of spray material supplied thereto.

2,661,243
VISCOSITY COMPENSATING VARIABLE-AREA FUEL NOZZLE
Homer M. Fox, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 2, 1951, Serial No. 203,994
5 Claims. (Cl. 299—118)

1. A fuel injection nozzle comprising in combination a closed housing; a cylindrical chamber in an end closure member of said housing; an orifice in an end portion of said cylindrical chamber communicating the interior of said chamber with a point outside said housing; a plurality of conduits each disposed to admit fluid into said cylindrical chamber tangentially against the inner wall thereof, and terminating at said inner wall at points longitudinally spaced apart thereon; a plurality of fuel conduits in said housing for admitting liquid fuel, and communicating with the first said conduits; a piston member axially disposed in said cylindrical chamber, closing same and axially movable therein; a pressure sensitive bellows in said housing coaxial with said piston and connected at one end with said piston, and

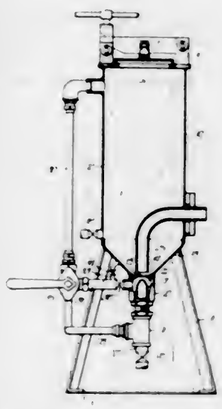


having its outer surface in communication with the interior of the last said conduits; a collar in said housing disposed to be moved axially therein; said bellows at its end farthest from said piston encompassing an end portion of said collar; a spring in said bellows contacting said collar at one end and said piston at the other end; a temperature sensitive element in said housing responsive to temperature change in the interior of the last said conduits and operatively connected to said collar to move same to compress said spring when said temperature decreases and relieve said spring when said temperature increases; and conduit means for communicating the interior of said bellows with a point outside of said housing.

2,661,244
MEANS FOR ADDING SOLID MATERIALS TO LIQUID
Edgar William Baily, Purley, England, assignor to The Paterson Engineering Company, Limited, Kingsway, England, a corporation of Great Britain
Application June 7, 1949, Serial No. 97,658
Claims priority, application Great Britain June 16, 1948
8 Claims. (Cl. 302—15)

1. Apparatus for proportional feeding of a wetted solid filter aid material to a stream of liquid to be filtered comprising a container for holding a supply of the wetted material, and means operative to withdraw an amount of wetted material proportional to said stream of liquid and feed it to said stream as a suspension in liquid, said means including pipe means having an inlet in said container spaced above the bot-

tom thereof, and an outlet portion passing through a wall of said container and, when installed in operative position, connected to said stream of liquid, an ejector tube having a jet outlet discharging into said container in the direction of said inlet of said pipe means, said ejector tube, when installed in operative position, being connected with its inlet to said



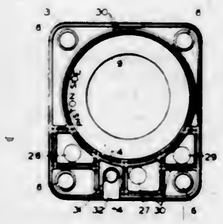
stream of liquid upstream of said outlet portion, an annular wall forming a chamber about said jet outlet, a conduit leading from said ejector tube upstream of said jet outlet and discharging to the upper portion of said container, conduit means for diverting a portion of the liquid flowing through said conduit to said chamber, and valve means regulating the quantity of liquid diverted to said chamber.

2,661,245

COMPRESSION GASKET HAVING MEANS FOR INDICATING WHEN IMPROPERLY POSITIONED

Ernest J. Laber, Irwin, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application April 7, 1949, Serial No. 85,973
3 Claims. (Cl. 303—1)



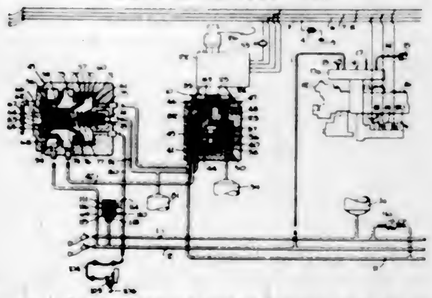
1. An element adapted to be clamped between two devices and having two oppositely arranged faces for matching, respectively, with faces on said devices, said element comprising two fluid conducting ports substantially equally spaced from opposite sides of an axis of said element and from one edge of said element, one of said ports extending only between said opposite faces of said element, and the other port communicating with an opening which opens to an exterior edge of said element.

2,661,246

FLUID PRESSURE BRAKE APPARATUS

Everett P. Sexton, East McKeesport, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application August 22, 1950, Serial No. 180,748
3 Claims. (Cl. 303—18)



1. In a fluid pressure brake equipment, in combination, a source of fluid under pressure, a brake pipe, a feed valve pipe constantly availed of fluid under pressure from said source, a brake pipe charging pipe, a brake application control pipe, a lock control pipe, an operator's brake valve device having a release position for establishing a fluid pressure supply communication between said brake pipe charging pipe and said feed valve pipe and an exhaust communication between said lock control pipe and atmosphere and having a lap position for closing both said supply communication and said exhaust communication, a brake application control valve device having one chamber in restricted communication with said feed valve pipe and unrestricted communication with said brake application control pipe and having a second chamber connected to said brake pipe charging pipe, said brake application control valve device being operable upon substantial equalization of pressure in said one chamber with pressure in said second chamber to a brake release position for opening said brake pipe to said brake pipe charging pipe and being operable upon a reduction in pressure in said one chamber relative to that in said second chamber to a brake application position for opening a vent from said brake pipe to atmosphere and for also opening said one chamber to said lock control pipe, and automatically closing road bed operable trip valve means for venting said brake application control pipe to atmosphere.

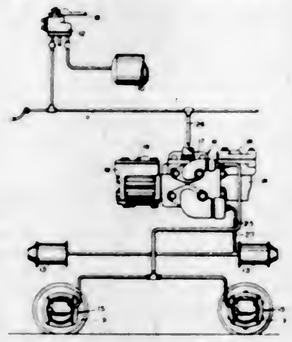
2,661,247

BRAKE CONTROL APPARATUS

John W. Rush, Wilkinsburg, and Glenn T. McClure, McKeesport, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application May 27, 1949, Serial No. 95,668
8 Claims. (Cl. 303—21)

1. Apparatus for controlling the application of brakes to a wheel of a vehicle comprising the combination of a valve mechanism normally in a position for establishing a first communication through which fluid under pressure may be supplied to effect application of the brakes to the wheel and operative, in response to a rapid reduction of a control fluid pressure, to a different position in which said first communication is cut off and a second communication is established through which fluid under pressure is released to effect a reduction in the degree of application of the brakes associated with said wheel only so long as said control pressure continues to be reduced, wheel slip detecting means operatively associated with and responsive to a slipping condition of said wheel to effect a rapid reduction in said control fluid pressure, timing means operatively associated with said detecting means for causing said reduction of control pressure by said detecting means to continue for a certain uniform period of time, means providing three parallel passages in said first communication, valve means normally conditioned to open one of said passages, and operatively responsive to the es-



tablishment of said second communication by said valve mechanism to close communication through said one of the passages, a valve device operatively responsive to a certain uniform pressure of fluid established in said first communication for closing a second one of said parallel passages, and means in the third one of said parallel passages for restricting the flow of fluid under pressure therethrough to a rate which is relatively slow with respect to the rate of flow through said first and second passages.

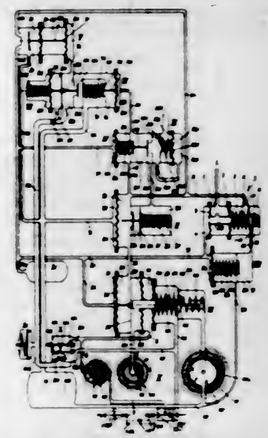
2,661,248

CONTROL SYSTEM FOR AUTOMATIC SINGLE-CHAMBER COMPRESSED AIR BRAKES

Siegfried Keller, Effretikon, Switzerland, assignor to Machine Tool Works Oerlikon Administration Company, Zurich-Oerlikon, Switzerland, a Swiss company

Application June 19, 1947, Serial No. 755,705
16 Claims. (Cl. 303—35)

1. A control system for automatic, single-chamber, compressed air brakes, comprising a maximum-pressure-limiting device containing a spring-actuated valve and a diaphragm, whereby the interior of said device is divided into at least first, second and third chambers, an accelerator containing a discharged-air and spring-actuated valve whereby the interior of said accelerator is divided into at least first and second chambers, a draw-off, restricting device containing a spring-actuated valve having two elements which open and close alternately, the interior of said draw-off, restricting device comprising at least first and second chambers, a header unit containing a diaphragm and an auxiliary-air and spring-actuated valve connected with the last-mentioned diaphragm, the interior of said header unit being divided by said diaphragm and said valve into at least first, second and third chambers, a cut-off unit containing a diaphragm-actuated valve, a minimum-pressure unit containing a valve, the interior of said minimum-pressure unit being divided into at least first and second chambers, the second chamber of sad minimum-pressure unit being connected with the second chamber of said header unit, a charging unit containing a spring-loaded valve and a diaphragm connected therewith, whereby the interior of said charging unit is divided into at least first and second chambers, a triple-pressure, regulating unit containing a spring-actuated valve and diaphragms dividing it into at least first, second and third chambers, a brake cylinder, a main air pipe connected with the second chamber of said maximum-pressure-limiting device, an auxiliary air reservoir, a control-air reservoir, a discharge interrupter connected with the second chamber of said daw-off, restricting device, and the atmosphere, a second pipe connecting the second chamber of said maximum-pressure-limiting device with said cut-off unit, means connecting the first chamber of said maximum-pressure-limiting device with the first chamber of said charging unit, a third pipe connecting the third chamber of said maximum-pressure-limiting device with the sec-



ond chamber of said charging unit, a fourth pipe connecting the first chamber of said charging unit with said control-air reservoir, a fifth pipe connecting the fourth-mentioned pipe with the first chamber of said triple-pressure, regulating unit, second means connecting the third chamber of said triple-pressure, regulating unit with said brake cylinder, a sixth pipe connecting the first chamber of said minimum-pressure unit with said brake cylinder, a seventh pipe connecting the first chamber of said header unit with said auxiliary air reservoir, an eighth pipe connecting the second chamber of said triple-pressure, regulating unit with the first chamber of said accelerator, a ninth pipe connecting the second chamber of said accelerator with the second chamber of said draw-off, restricting device, and a tenth pipe connecting the first chamber of said draw-off, restricting device with the third chamber of said header unit.

2,661,249

ENDLESS TRACK COMPOSED OF RUBBER BONDED TO FLEXIBLE METAL BANDS

Giovanni Bonmartini, Rome, Italy, assignor to "E S T" Etablissement Sciences Techniques, Vaduz, Principality of Liechtenstein, a company of Liechtenstein

Application September 1, 1948, Serial No. 47,164
Claims priority, application Italy January 21, 1948
6 Claims. (Cl. 305—10)

1. A track for track-laying running gear, comprising an endless spring-metal band of inherently concavo-convex cross section and a continuous non-metallic tread formed of resilient

rubber-like material and having side edge portions of greater thickness than the mid portion,



said tread being adherently applied to the convex surface of said metal band and forming a permanent unitary structure therewith.

2,661,250
PNEUMATIC ENDLESS TRACK FOR VEHICLES AND THE LIKE
Giovanni Bonmartini, Rome, Italy, assignor to "E S T" Etablissement Sciences Techniques, Vaduz, Liechtenstein, a company of Liechtenstein
Application May 4, 1949, Serial No. 91,304
Claims priority, application Italy March 3, 1949
15 Claims. (Cl. 305—10)



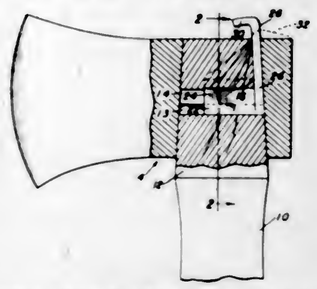
1. A track for track-laying vehicles comprising an endless pneumatic casing formed of material having the resilient properties of soft vulcanized rubber and flexible but inextensible reinforcement means extending longitudinally in the side walls of the casing and lying in a cylindrical surface spaced from the inner periphery of the casing and parallel to the cylindrical surface which is circumscribed by the inner periphery of the casing, the outer and inner peripheral portions of the casing being extensible and contractible in a longitudinal direction.

2,661,251
TRACK DEVICE FOR VEHICLES AND THE LIKE
Giovanni Bonmartini, Rome, Italy, assignor to "E S T" Etablissement Sciences Techniques, Vaduz, Liechtenstein, a company of Liechtenstein
Application March 20, 1950, Serial No. 150,666
Claims priority, application Italy February 10, 1950
10 Claims. (Cl. 305—10)



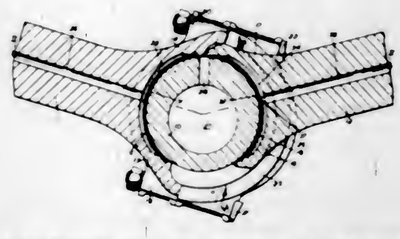
1. An endless pneumatic track for track-laying vehicles comprising an endless tubular member formed of flexible material and inflatable with compressed gas, the wall of the tube being provided with sinuous corrugations projecting inwardly and outwardly from an ideal central cylindrical surface having a circular cross section, the corrugations having the same sinuosity on the inner and outer surface of the tubular member, the wall of the tubular member being reinforced by spaced transverse rings of flexible but inextensible material positioned in the inner portion of each corrugation and arranged to keep the diameter of the tubular member unaltered at the inner portions of said corrugations during the inflation of the tubular member with compressed gas, said tubular member being further reinforced by at least two longitudinal elements of flexible but inextensible material incorporated in the wall of the tubular member.

2,661,252
IMPLEMENT HANDLE SECURING KEY
Joseph E. Girard, Lewiston, Idaho
Application August 31, 1950, Serial No. 182,500
1 Claim. (Cl. 306—35)



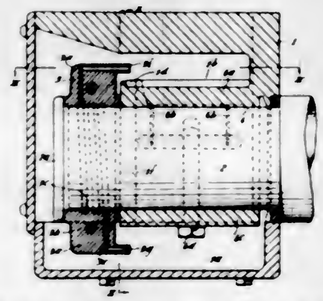
Implement handle, head, and fastening means, in combination, comprising a head having an open ended handle socket, a handle telescopically fitted into said socket, a shank on said handle having a pre-cut keyway in one longitudinal edge portion parallel to and opening against a corresponding wall of said handle socket, a pre-cut pocket of keyhole shape formed in said shank and opening through the opposite longitudinal edges of said shank, said pocket communicating with said keyway at right angles to the latter and a key inserted in said keyway, said key having a lateral anchor on its lower end, said anchor being fitted into said pocket, said pocket being of a greater length than said anchor providing unused space at one end whereby a drift tool may be inserted to back said anchor out of said pocket, and said key being of a greater length than said keyway, the upper end of said key projecting above said head and terminating in a hook.

2,661,253
CONNECTING ROD END BEARING ASSEMBLY
Benjamin William Barlow, Wembley, and Alfred Edward Barnes, Greenford, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain
Application January 13, 1949, Serial No. 70,692
Claims priority, application Great Britain January 28, 1948
1 Claim. (Cl. 308—78)



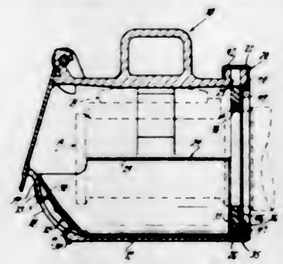
A connecting rod end bearing assembly for a crank pin bearing providing a circumferential bearing surface of less than 180° of the type utilizing a thin antifriction liner, said assembly comprising a forked connecting rod end having a concave end face or liner recess extending in the axial direction and adapted to be concentric with the crank pin axis when assembled thereon, abutments extending in the axial direction at each circumferential end of said recess, said abutments being spaced less than 180° apart, a circumferential oil groove in said concave end face extending nearly from one abutment to the other, and a thin walled curved strip of bearing metal in said recess with a row of perforations adapted to pass lubricant in register with said groove and its ends in contact with the inner faces of said abutments, the contacting ends of said strips and abutments being substantially radial and engaged by force fit to retain said strip in said recess.

2,661,254
JOURNAL BEARING
Stephen W. Wright and Phil P. Love, Alperton, Wembley, England, assignors to Johnson Bronze Company, New Castle, Pa., a corporation of Pennsylvania
Application January 20, 1951, Serial No. 206,986
Claims priority, application Great Britain January 23, 1950
5 Claims. (Cl. 308—79)



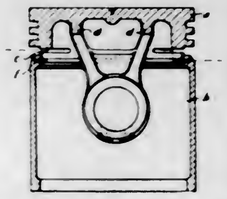
1. In an assembly including an axle and a bearing therefor having a reservoir containing oil: a lubricator comprising a ring member adapted for limited pivotable engagement with the axle, said ring member having a circumferential helical groove whereby, according to the direction of rotation of the axle, one of the ends of the groove is placed in contact with the oil in the reservoir and the other end is positioned for delivering the oil above the reservoir.

2,661,255
REMOVABLE OIL PAN ASSEMBLY
Ralph E. Morgan, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application February 11, 1952, Serial No. 270,943
11 Claims. (Cl. 308—80)



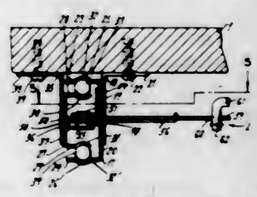
1. In combination, a railway journal box which is devoid of operative dust guard flanges and waste retaining ribs, a trough-like oil pan having an inner end disposed within the bottom of the journal box; a dust guard disposed against the inner end of the oil pan; a separable dust guard retainer holding the dust guard against the end of the oil pan; and means separate from the journal box maintaining the aforementioned parts in assembled juxtaposition within the journal box.

2,661,256
LIGHT METAL PISTON FOR COMBUSTION ENGINES
Max Kuhm, Neckarsulm, Wurttemberg, Germany, assignor to Karl Schmidt Gesellschaft mit Beschraenkter Haftung, Neckarsulm, Wurttemberg, Germany, a corporation of Germany
Application May 2, 1950, Serial No. 159,579
3 Claims. (Cl. 309—13)



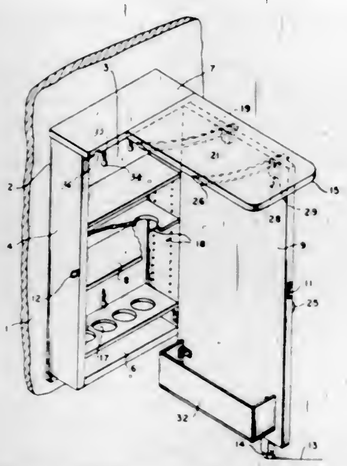
1. In a light metal piston having a head, an oval ground hollow unbroken skirt, ribs extending between said head and piston pin bosses in said skirt, slots between said head and skirt, and an expansion control member attached to said skirt, said control member comprising a solid circular ring at least partially embedded in and integral with said skirt adjacent said slots, said ring having a coefficient of expansion less than that of said skirt whereby said skirt when heated expands in the direction of the axis of said piston pin bosses to a more nearly circular shape.

2,661,257
LOCK MECHANISM FOR EXTENSION SLIDE TABLES
Benjamin A. Woina, Salem, and Archer W. Richards, Chagrin Falls, Ohio, assignors to American Fixture and Manufacturing Co., St. Louis, Mo., a corporation of Missouri
Application March 10, 1950, Serial No. 148,872
5 Claims. (Cl. 311—49)



1. A locking mechanism for an extension slide table comprising a table top member having first and second sections adjustably connected by a slide comprising an outer rail having an aperture in one face thereof, an inner rail telescopically nested within the outer rail, and ball bearings disposed between said rails whereby said rails may be moved with relation to each other; said locking mechanism comprising a locking plate extending through said aperture and normally abutting on its projecting end against the inner rail, whereby the rails are fixedly maintained in relative position, and control means for optionally swinging the locking plate out of engagement with the inner rail to permit relative movement between said rails.

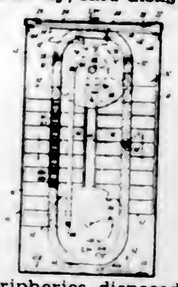
2,661,258
BUFFET COUNTER AND BAR
Jack M. Dinken, New York, N. Y.
Application March 21, 1951, Serial No. 216,690
1 Claim. (Cl. 312—248)



A cabinet to be mounted on a support in a room, comprising a casing having a top, bottom and sides, the bottom being above the floor of said room, and a closure member for the front hinged along one edge to one of said sides, said closure being of such length as to extend below the casing towards the floor of the room, the closure member having a roller caster to engage the floor, the casing also having a shelf hinged at one end to the top, said shelf resting on the closure member when said member is open, and hanging down over the said member when said member is shut, said shelf having a transverse curved metal track on its lower face adjacent the hinged end and the closure member having an anti-friction member adjacent its upper edge to engage said track, said shelf also having a transverse curved metal track on its lower face adjacent its outer end, and the closure member having a spring-pressed catch adjacent its upper outer corner, the second-named track having a cavity to receive the end of the catch when the closure member is fully open, said tracks being concentric with the hinged edge of the closure when the shelf is raised, and extending from one edge of the shelf towards the opposite edge, and a tray carried by said closure member near its lower end to be swung under the casing when the closure is shut.

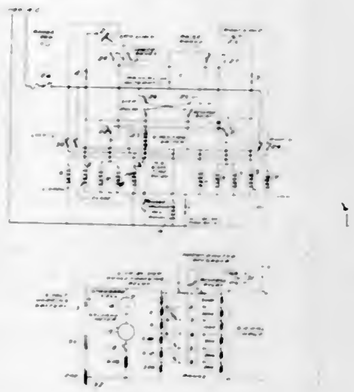
2,661,259
CONTAINER FOR MOVABLY STORING ARTICLES
Francis F. C. Rippon, New York, N. Y.
Application September 8, 1948, Serial No. 48,311
6 Claims. (Cl. 312—267)

5. A device of the kind described comprising a closure, a number of trays within said closure disposed in two columns side by side with the trays of each column resting on one another except while being transferred from one column to another, each of said trays having end projection members, endless guideways at the opposite ends of said closure into which said projection members respectively extend, a pair of disks rotatably mounted within said closure adjacent its top and adjacent said guideways respectively, said disks having notches around their peripheries disposed to be aligned with a portion of said guideways during part of each rotation of said disks, and a pair of disks rotatably mounted adjacent the bottom of said closure and adjacent to the said guideways respectively, said disks having notches



around their peripheries disposed to be aligned with a portion of the said guideways during part of each rotation of said disks, and spaced apart a distance to permit a tray from each column to be separated from the columns respectively and transferred to the other column while the remainder of the trays remain stationary.

2,661,260
MULTIPLE RANGE RECORDER
Charles F. Salzman, Jr., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application May 23, 1950, Serial No. 163,733
4 Claims. (Cl. 346—65)



1. A polarized electric signal-actuated recorder of the moving-surface, moving-pen type, the improvement which comprises a plurality of sensitivity range circuits, step-by-step switching means for successively connecting said sensitivity ranges into the instrument, a reversing switch for the recorder signal, pen limit switches actuated by the pen in its extreme limit positions, means actuated by the pen limit switches to operate the reversing switch means and the step-by-step switching means, and an auxiliary reversing switch also actuated by the pen limit switches, said pen limit switches connecting the step-by-step switching means to determine direction of range change whereby actuation of the pen limit switches by a signal continuously increasing or decreasing changes range and reverses pen recording movement.

CHEMICAL

2,661,261
METHOD OF SUPERBLEACHING CHEMICAL PULP
Robert L. McEwen, Williamsville, Fred R. Sheldon, Buffalo, and Willard F. Schroeder, North Tonawanda, N. Y., assignors to Buffalo Electro-Chemical Company, Tonawanda, N. Y.
No Drawing. Application June 30, 1950, Serial No. 171,548
2 Claims. (Cl. 8—106)

1. The method of preparing a superbleached paper fiber from chemically purified fiber selected from the class consisting of sulfate fiber and sulfite fiber which comprises preliminarily prebleaching the chemically purified fiber with a hypochlorite to a brightness greater than 65 and then completing the bleach upon the chemically purified and hypochlorite prebleached fibers at a substantially constant pulp density not less than 30% and at temperatures below 130° F. with alkaline peroxide, the total alkalinity of which is 0.3% to 3.25% calculated as NaOH, the time for obtaining maximum brightness being between 1 and 20 days, whereby the physical properties of the so treated fibers at the higher brightness level remain substantially unchanged from those existing at the lower brightness level.

2,661,262
COMPOSITION CONTAINING COLLOIDAL METHYL ETHER OF METHYLOL MELAMINE AND OTHER THERMOPLASTIC RESINS AND PROCESS OF APPLYING TO CELLULOSE TEXTILES
Kern E. Folkers, Winchester, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application January 30, 1950, Serial No. 141,353
14 Claims. (Cl. 8—115.6)

13. A composition for treating cellulose textile fabrics which contain at least 70% of cellulose yarns comprising essentially a mixture of an acidic aqueous colloidal solution of a positively charged, partially polymerized methyl ether of methylol melamine condensation product containing from 2.8 to 6 mols of combined formaldehyde and from 2 to 6 mols of combined methanol per mol of melamine, from 1 to 40% by weight, on the weight of said condensation product, of dispersed polyvinyl acetate and from 1.2 to 8.5% by weight, calculated on the basis of a 10% by weight solution of the condensation product, of a water-soluble organic acid selected from the group consisting of acetic acid, hydroxy-acetic acid and formic acid, said composition being free of polyhydric alcohols.

14. A process of finishing a textile fabric containing at least 70% of cellulose yarns which comprises wetting out said fabric with an acidic aqueous colloidial solution of a positively charged, partially polymerized methyl ether of methylol melamine condensation product containing from 2.8 to 6 mols of combined formaldehyde and from 2 to 6 mols of combined methanol per mol of melamine, said solution containing from about 1.2 to 8.5% by weight, calculated on the basis of a 10% by weight solution of the condensation product, of a water-soluble acid selected from the group consisting of acetic acid, hydroxyacetic acid and formic acid and being free of polyhydric alcohols, allowing from 1 to 12% by weight of said condensation product, based on the weight of the fabric, to deposit on said fabric, heating the fabric to insolubilize the condensation product sufficiently to make it resistant to removal by washing, washing the fabric to remove acid therefrom and drying said fabric.

2,661,263
PHOSPHOROUS OXYCHLORIDE AND AMMONIA REACTION PRODUCTS IN FLAME RETARDING COMPOSITIONS APPLIED TO CELLULOSIC MATERIALS
Morris L. Nielsen, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 21, 1950, Serial No. 169,507
7 Claims. (Cl. 8—115.6)

1. The method of imparting flame- and glow-retardant effects to cellulosic materials which comprises impregnating said materials with a mixture of antimony and titanium chlorides and subsequently neutralizing the same by alkali to form antimony and titanium oxides, and separately impregnating the said cellulosic materials with at least 1% of previously prepared solution of a nitrogen and phosphorus-containing product obtained by reacting one mole of phosphorus oxychloride with at least five moles of anhydrous ammonia in an inert solvent, which dissolves but does not react with the said reactants, at a temperature below 100° C., to produce an initially-formed, anhydrous-ammonia-soluble product mixed with ammonium chloride, then heating said initially-formed nitrogen and phosphorus-containing product to a temperature of at least 110° C., but below 150° C., until said nitrogen and phosphorus-containing product is rendered substantially insoluble in liquid anhydrous ammonia, said reaction product having a molecular weight within the limits of from 180–300, a nitrogen/phosphorus atomic ratio within the limits of from 2.1 to 2.3, and when dissolved as a saturated solution in water yielding a solution having a pH within the limits of 7.0 to 8.5, and thereafter drying the said impregnated cellulosic material.

7. Glowproofed and flameproofed fabric comprising a cellulosic base material impregnated with antimony and titanium oxides and a water-soluble condensation product selected from the group consisting of urea-formaldehyde, melamine-formaldehyde, urea-furfural and melamine-furfural, and also a nitrogen and phosphorus-containing product having a molecular weight within the limits of from 180–300, a nitrogen/phosphorus atomic ratio within the limits of from 2.1 to 2.3, and when dissolved as a saturated solution in water yielding a solution having a pH within the limits of 7.0 to 8.5, and which nitrogen- and phosphorus-containing product is prepared by reacting one mole of phosphorus oxychloride with at least five moles of ammonia in an inert solvent which dissolves but does not react with the said reactants, at a temperature below 100° C., to produce an initially-formed, anhydrous-ammonia-soluble product mixed with ammonium chloride, then heating said initially-formed nitrogen and phosphorus-containing product to a temperature of at least 110° C., but

below 150° C., until said nitrogen and phosphorus-containing product is rendered substantially insoluble in liquid anhydrous ammonia.

2,661,264

NITROGEN AND PHOSPHORUS CONTAINING PRODUCT AND PROCESS FOR PRODUCING SAME

John E. Malowan, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 21, 1950, Serial No. 169,513
8 Claims. (Cl. 23—14)

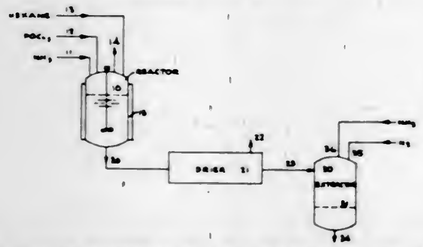
1. The process for producing a nitrogen and phosphorus-containing product which comprises reacting one mole of phosphorus oxychloride with at least five moles of ammonia in an inert solvent which dissolves but does not react with the said reactants at a temperature below 100° C. to produce an initially-formed nitrogen and phosphorus-containing product mixed with ammonium chloride, then heating said initially-formed nitrogen-phosphorus-containing product to a temperature of at least 110° C., but not above 150° C., until a nitrogen-phosphorus-containing product substantially free of chemically combined chlorine is obtained and said product becomes substantially insoluble in liquid anhydrous ammonia, removing the said solvent and thereafter separating said substantially chlorine-free nitrogen-phosphorus-product from ammonium chloride by leaching said product with liquid anhydrous ammonia.

2,661,265

PURIFICATION PROCESS

Donald A. High, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application October 26, 1950, Serial No. 192,300
4 Claims. (Cl. 23—14)



1. In the process of extracting ammonium chloride from a mixture with condensation products of phosphorus oxychloride and ammonia obtained by heating the said reactants to a temperature of at least 100° C. but below 150° C., adding liquid anydrous ammonia to said reaction mixture to dissolve ammonium chloride therefrom, and thereafter applying an inert gas pressure to the said mixture to filter therefrom the liquid ammonia containing dissolved ammonium chloride.

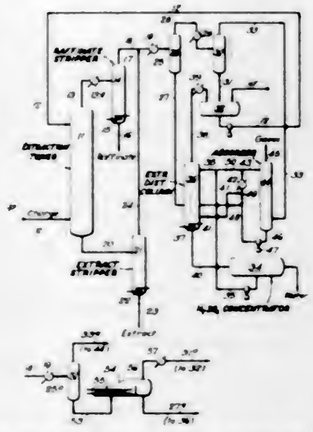
2,661,266

HYDROGEN FLUORIDE TREATING SYSTEM

James E. Friden, Whiting, and William A. Shire, Munster, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application April 28, 1951, Serial No. 223,582
7 Claims. (Cl. 23—153)

1. The method of removing impurities in a hydrogen fluoride treating system wherein a hydrocarbon containing dissolved water and sulfur compounds is contacted with hydrogen fluoride under conditions to form raffinate and extract phases and said phases are separately stripped in stripping zones to remove substantially all hydrogen fluoride, water, hydrogen sulfide and normally gaseous hydrocarbons therefrom as stripper overhead streams, which method comprises partially condensing at least one of said stripper overhead streams to obtain a liquid aqueous hydrogen fluoride stream and a gaseous hydrogen fluoride stream containing H_2S, extractively distilling said aqueous hydrogen fluoride stream with concentrated sulfuric acid by introducing said concentrated sulfuric acid at



the top of said extractive distillation zone, introducing said aqueous hydrogen fluoride stream at an intermediate point in said extractive distillation zone and heating the base of said extractive distillation zone to a temperature in the range of 260° to 350° F., withdrawing substantially hydrogen fluoride-free sulfuric acid from the base of said extractive distillation zone and returning at least a part of said withdrawn acid to an acid concentrating zone, scrubbing hydrogen fluoride from the gaseous hydrogen fluoride stream with sulfuric acid in an absorber zone maintained at a temperature below 100° F., venting H_2S from the top of said absorber zone and introducing enriched sulfuric acid from the absorber zone to the extractive distillation zone.

2,661,267

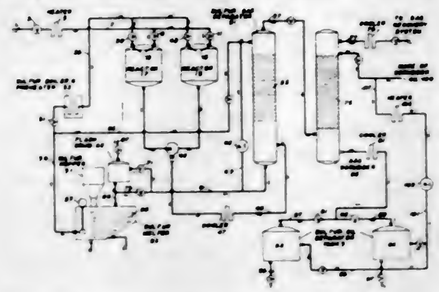
PROCESS FOR THE PRODUCTION OF CARBON DISULFIDE

Hillis O. Folkins, Skokie, and Elmer Miller and Harvey Hennig, Evanston, Ill., assignors, by mesne assignments, to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware

Application August 30, 1948, Serial No. 46,906
7 Claims. (Cl. 23—206)

1. The process for producing carbon disulfide by reaction of hydrocarbon gases containing a substantial amount of C_3 and higher hydrocarbons and sulfur at about 1112° F. in the presence of a catalyst capable of promoting carbon disulfide formation, which comprises separately preheating said hydrocarbon gases to reaction temperature, controlling the residence time at said temperature to prevent substantial cracking of said hydrocarbon gas, separately preheating said sulfur to a temperature sufficient so that when mixed with said preheated gas and

contacted with catalyst the reaction temperature of the mixture will be about 1112° F., substantially simultaneously mixing said preheated hydrocarbon gas with the preheated sulfur and



contacting the mixture with said catalyst, the amount of sulfur being at least the stoichiometric amount necessary to react with the gas to form carbon disulfide, and separating carbon disulfide from the product.

2,661,268

PRODUCTION OF HYDROGEN PEROXIDE

Kenneth W. MacFadyen, Avenel, and Ned E. Jaffa, Roselle, N. J., assignors to Food Machinery and Chemical Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 7, 1946, Serial No. 668,011
9 Claims. (Cl. 23—207)

1. In the production of hydrogen peroxide by the reaction of barium peroxide, carbon dioxide, and water under superatmospheric pressure during cooling, the improvement whereby hydrogen peroxide is produced in yields of at least 89 per cent comprising effecting said reaction under a carbon dioxide pressure of at least 125 p. s. i. in the presence of an acid of phosphorus in an amount equivalent to at least 0.10 per cent P_2O_5.

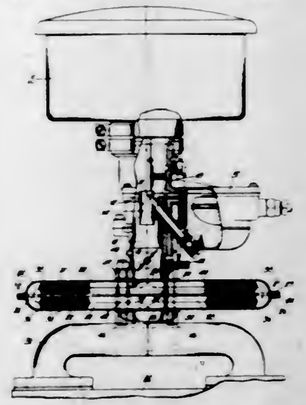
2,661,269

DEVICE FOR ENHANCING THE VAPORIZATION OF A FUEL COMPONENT OF A FLOWING FUEL-AIR MIXTURE

George L. Briggs, Oneida, N. Y., assignor to Briggs Research & Development, Inc., White Plains, N. Y., a corporation of New York

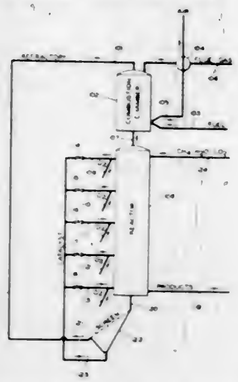
Application November 15, 1948, Serial No. 60,001
18 Claims. (Cl. 48—180)

1. For an internal combustion engine provided with an intake manifold and a carbureter having an efflux orifice through which a fuel-air mixture is supplied to the influx orifice of the manifold, a fuel vaporizer adapted to be interposed between said orifices comprising a first and a second concave shell coaxially joined together in a plane at their perimeters to form an enclosure, a disc-like baffle dividing the enclosure into an upper and a lower chamber whereby said baffle forms the bottom wall for the upper chamber and a portion of one of said shells forms the bottom wall for the lower chamber, a plurality of ports in the baffle permitting intercommunication between the chambers, an orifice in the first shell aligned with the efflux orifice, an orifice in the second shell aligned with the influx orifice, a filamentous vaporizing packet arranged in at least one of the chambers so that the length of the filaments thereof is substantially parallel to radial flow between the orifice of the chamber and said baffle ports, said packet having a substantially oblong cross-section generally parallel to said filaments and terminating in inner and outer substantially circular ends of different radii and arranged with respect to the chamber orifice and said baffle ports, said filaments being in closely associated arrangement and having flow passages therebetween for movement of fuel-air mixture between said chamber orifice and said baffle ports, and a baffle arranged substantially coaxially with one of said circular ends of the packet and extending upwardly from the bottom wall of the chamber containing the packet for compelling the mixture to enter the packet at a level above the said bottom wall.



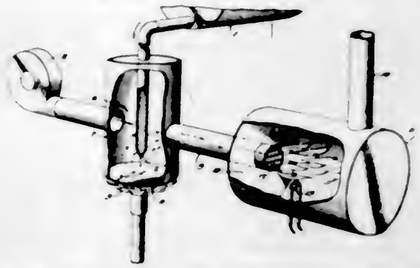
18. A device for enhancing the vaporization of the fuel component of a flowing fuel-air mixture, comprising means forming a flow chamber having an entry and an exit for the passage of fluid therethrough in direction from the entry to said exit and having substantially impervious walls extending from the former to the latter for guiding flow in said direction and a vaporizing packet for flow of mixture from an entry end portion thereof, to an exit end portion thereof, said packet being positioned in said flow chamber with its entry end portion exposed at said flow chamber entry and its exit end portion exposed at said flow chamber exit and having a plurality of closely associated smooth ribbon filaments that extend individually from said entry end portion to said exit end portion with intervening lengthwise extending spaces so that said ribbon filaments are interspersed with air passages extending lengthwise generally in the direction of flow of the fuel-air mixture from said entry end portion toward said exit end portion thereof, said packet having a cross-section, transversely of said lengthwise extending filaments and of the said lengthwise extending intermingled air passages, that is substantially the same as the cross section of said flow chamber means between said impervious walls thereof, said ribbon filaments having portions thereof distorted out of their longitudinal axes to coact in laterally spacing adjacent ribbon filaments from one another and thereby coact in providing said air passages and in maintaining said cross-section of said packet so that it conforms susbtantially to the said cross-section of said flow chamber means whereby fuel-air mixture entering the entry of the latter is constrained to flow along said air passages and fuel droplets deposited on said ribbon filaments are by the mixture flowing along said air passages filmed out upon and attenuated lengthwise of said ribbon filaments in the direction toward said exit, thereby to enhance vaporization thereof.

2,661,270
MANUFACTURE OF SYNTHESIS GAS
Thomas B. Hudson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 14, 1947, Serial No. 779,787
3 Claims. (Cl. 48—196)



1. In the manufacture of synthesis gas by the reaction of methane with steam to form a synthesis gas containing hydrogen and carbon monoxide with the hydrogen being in molar excess of the carbon monoxide, the improvement which comprises passing a reaction mixture comprising methane and steam downwardly through a vertical reaction chamber, passing downwardly through said chamber a mass of preheated refractory pebbles at an inlet temperature sufficient to effect the desired reaction, flowing the reaction mixture and pebbles concurrently through said reaction zone whereby the temperature in the direction of flow decreases due to the endothermic nature of the reaction, introducing catalyst for said reaction into said reaction zone for downward flow therethrough, said catalyst being introduced at a plurality of points spaced along the line of flow and being admixed with said pebbles and reaction mixture in said zone, separately regulating the quantity and activity of the catalyst introduced at each of said points so as to provide an increasing catalyst activity in the direction of flow, said increasing activity tending to counteract the depressing effect of said decreasing temperature on the extent of reaction in the lower portions of said reaction zone, recovering said pebbles from the bottom of said reaction zone, reheating same, and reintroducing same into the top of said reaction zone in a continuous cycle, separating said catalyst from admixture with said pebbles, subjecting a portion of said catalyst to reactivation while returning the remaining portion to the reaction zone without reactivation, introducing said unreactivated catalyst into said zone at a plurality of the aforesaid points including the first and excluding the last of said points in the direction of flow, the unreactivated catalyst introduced to said first point being the sole catalyst introduced thereto and a diminishing quantity of unreactivated catalyst being introduced at each succeeding point in the direction of flow, introducing said reactivated portion of said catalyst into the reaction zone at a plurality of points excluding the first and including the last of said points in the direction of flow, the reactivated catalyst introduced to said last point being the sole catalyst introduced thereto and an increasing quantity of reactivated catalyst being introduced at each succeeding point in the direction of flow, and so portioning the relative amounts of unreactivated and reactivated catalysts introduced at the respective points as to maintain an increasing catalytic activity in the direction of flow such as to establish a substantially constant extent of reaction throughout the reaction zone despite said decreasing temperature, otherwise decreasing catalyst activity, and decreasing concentration of reactants.

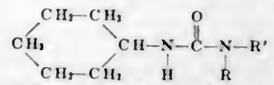
2,661,271
VAPORIZATION AND COMBUSTION PROCESS FOR HYDROCARBON DISTILLATES
Edwin C. Hyatt, Luther L. Lyon, Jr., and Willis R. Swanson, Wichita, Kans., assignors to The Coleman Company, Inc., Wichita, Kans., a corporation of Kansas
Application April 13, 1948, Serial No. 20,644
10 Claims. (Cl. 48—212)



1. In the preparation of a combustible mixture containing oxygen and fuel oil vapors, the method of vaporizing a liquid fuel oil characterized by the step of dropping liquid fuel oil upon a heated surface within a restricted zone from a point above said surface, said fuel oil having a 90% boiling point under 700° F., said heated surface being continuously maintained at a temperature above 700° F. at which the fuel oil to be vaporized does not wet said surface but below a temperature at which ignition occurs.

2,661,272
1-CYCLOHEXYL-3,3-DIALKYLUREAS AND THEIR USE AS HERBICIDES
Norman E. Searle, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 21, 1950, Serial No. 186,116
10 Claims. (Cl. 71—2.3)

7. A 1-cyclohexyl-3,3-dialkylurea having the formula



wherein R and R' are alkyl radicals.

9. A herbicidal method which comprises applying to a locus to be protected from weeds a composition containing a 1-cyclohexyl-3,3-dialkylurea as an essential herbicidal agent in effective amount.

2,661,273
HERBICIDAL COMPOSITIONS
Arthur H. Schlesinger, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application August 19, 1952, Serial No. 305,309
7 Claims. (Cl. 71—2.3)

1. A herbicidal composition comprising an oil-in-water emulsion of a p-cyclohexylphenyl alkyl ketone in which the alkyl radical has from 1 to 4 carbon atoms, said ketone being present in said emulsion in a quantity which is toxic to plant life.

2,661,274
HERBICIDAL COMPOSITIONS
Arthur H. Schlesinger, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application August 23, 1952, Serial No. 306,065
11 Claims. (Cl. 71—2.3)

1. A herbicidal composition comprising an oil-in-water emulsion of a ketone selected from the class consisting of alkyl m-xenyl ketones and alkyl p-xenyl ketones in which the alkyl radical has from 1–4 carbon atoms, said ketone being present in said emulsion in a quantity which is toxic to plant life.

2,661,275
HERBICIDAL COMPOSITION
David T. Mowry and Arthur H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application January 25, 1951, Serial No. 207,853
2 Claims. (Cl. 71—2.5)

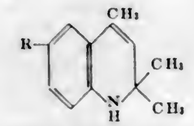
1. The method of destroying undesired plants which comprises applying to said plants a toxic quantity of a herbicidal composition comprising methyl furfurylidenecyanoacetate as the active ingredient.

2,661,276
HERBICIDES
Arthur H. Schlesinger and David T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application January 25, 1951, Serial No. 207,851
2 Claims. (Cl. 71—2.5)

1. A method of destroying undesired plants which comprises applying to said plants a herbicidal composition including 4-chloro-3-nitroquinoline as the active ingredient.

2,661,277
HERBICIDES
David T. Mowry and Arthur H. Schlesinger, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application September 12, 1952, Serial No. 309,365
13 Claims. (Cl. 71—2.5)

1. A herbicidal composition comprising an oil-in-water emulsion of a quinoline derivative having the formula



in which R is selected from the class consisting of alkyl and alkoxy radicals of from 1 to 5 carbon atoms, said quinoline derivative being present in said emulsion in a quantity which is toxic to plant life.

2,661,278
METHOD OF PRODUCING PIG IRON
Emil Edwin, Oslo, Norway
No Drawing. Application June 5, 1951, Serial No. 230,069
2 Claims. (Cl. 75—41)

1. In a method of producing pig iron in a blast furnace which includes charging into the furnace, a mixture of iron ore and coke the improvement which comprises blowing into the melting zone of the furnace an oxidizing blast which consists essentially of free oxygen and free nitrogen and is preheated to a minimum temperature of

$$(2{,}000 - 60\ p_o)^\circ\ C.$$

whereby p_o denotes the contents of oxygen in vol./per cent, the oxygen being present in an amount sufficient to render the blast oxidizing and not more than 16 per cent by volume.

2,661,279
TREATMENT OF STEEL
Raymond J. Wilcox, Grosse Pointe Farms, and Frank G. Vihtelic, Dearborn, Mich., assignors, by mesne assignments, to Ebaloy, Incorporated, Chicago, Ill., a corporation of Illinois
Application September 8, 1951, Serial No. 245,742
3 Claims. (Cl. 75—58)



1. A ladle treatment for corrosion and heat-resisting steels of the iron-nickel-chromium type to reduce porosity and like defects which comprises adding to the molten steel in the ladle a degasifying agent consisting of at least one of the elements selected from the group consisting of selenium and tellurium, said element being in solid form and in an effective amount no greater than about 0.03% by weight of the steel.

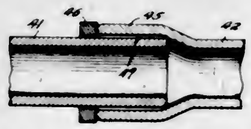
2,661,280
PROCESS FOR REMOVING TELLURIUM FROM ANTIMONY
Yurii E. Lebedeff, Metuchen, and William C. Klein, Menlo Park, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 15, 1951, Serial No. 246,874
6 Claims. (Cl. 75—69)

1. A process for removing tellurium from antimony which comprises establishing a pool of molten antimony metal containing tellurium and having thereon an overlying layer of molten slag, agitating said molten antimony metal pool in the presence therein of an alkali metal, discontinuing said agitation, and separating from the body of the antimony a slag containing tellurium.

2,661,281
PRODUCTION OF CAST IRON
Henton Morrogh, Alvechurch, England, assignor to The British Cast Iron Research Association, Birmingham, England
No Drawing. Application April 26, 1949, Serial No. 89,800
12 Claims. (Cl. 75—123)

1. Process for the production of cast iron containing calcium, which comprises adding a suitable calcium addition agent to molten iron in quantity more than sufficient to ensure reduction of any sulphur content of the iron to not more than 0.02 per cent, maintaining the temperature of the melt at not less than 1650° C. in order to ensure that calcium shall be present as carbide in contact with the molten iron, and allowing at least some of the calcium carbide to dissolve in the molten iron at such temperature.

2,661,282
IRON-PHOSPHORUS BRAZING COMPACT
Bernard A. Daley, Scott Township, Vanderburgh County, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application October 28, 1949, Serial No. 123,998
1 Claim. (Cl. 75—123)



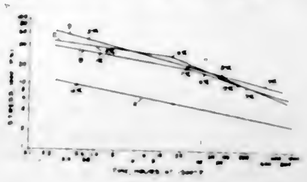
Powdered alloy of iron and phosphorus having a relative phosphorus content greater than that in a eutectic proportion, and powdered iron mixed with the powdered alloy in such quantities that the relation of iron and phosphous in the whole mixture is substantially a eutectic proportion, the mixture being compacted to a form adapted for application as brazing material to a joint between iron parts.

2,661,283
LITHIUM TREATED CAST IRON
Oliver Smalley, Larchmont, N. Y., assignor to Meehanite Metal Corporation, a corporation of Tennessee
Application August 24, 1950, Serial No. 181,129
2 Claims. (Cl. 75—123)



1. An article of manufacture comprising, a cast iron casting containing lithium and up to .08% sulphur which if untreated with said lithium would have resulted in a gray cast iron having a flake graphite structure, said casting being characterized by a substantially nodular-spherulitic form of graphite containing a nodularizing agent consisting of lithium in a range between .005%-.1%, and having a tensile strength of over 50,000 p. s. i.

2,661,284
PRECIPITATION HARDENABLE IRON BASE ALLOY
James D. Nisbet, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 27, 1951, Serial No. 233,842
3 Claims. (Cl. 75—128)



1. An alloy consisting essentially by weight of 15 to 25% chromium, 25 to 35% nickel, 2.4 to 6% titanium, 0.05 to 0.75% carbon, balance iron, said alloy being free of oxygen and nitrogen in the combined or free state in amounts exceeding the total of 0.02%, characterized by having a 1500° F. stress rupture life of more than 100 hours at 15,000 p. s. i. stress as contrasted with a 1500° F. stress rupture life of less than 25 hours for the same alloy containing more than a total of 0.02 per cent of oxygen and nitrogen in the free or combined state.

2,661,285
NONFERROUS ALLOY
Max Gorschalki, Altadena, Calif.
No Drawing. Application February 25, 1950, Serial No. 146,387
9 Claims. (Cl. 75—171)

1. A stainless non-ferrous alloy having the characteristics of higher tensile strength than nickel-chromium alloys and of resistance to corrosion to acid, alkali, sea water and corrosive gases, said alloy consisting of nickel, chromium, manganese and molybdenum in the approximate proportions of 69% to 80% by weight of nickel, 16% to 25% by weight of chromium, 2% to 4% by weight of manganese and about ½% to 2% by weight of molybdenum, based on the total weight of the nickel, chromium, manganese and molybdenum in the alloy, and free of material subversive of said characteristics.

2,661,286
TITANIUM BASE ALLOYS CONTAINING SILICON
Earl F. Swazy, Richard H. Freyer, and Lee S. Busch, Indianapolis, Ind., assignors, by mesne assignments, to Mallory-Sharon Titanium Corporation, Indianapolis, Ind., a corporation of Delaware
No Drawing. Application January 13, 1950, Serial No. 138,516
2 Claims. (Cl. 75—177)

1. An alloy consisting of from about .1 to 10% silicon, from .2% to 2% carbon, and the balance titanium.

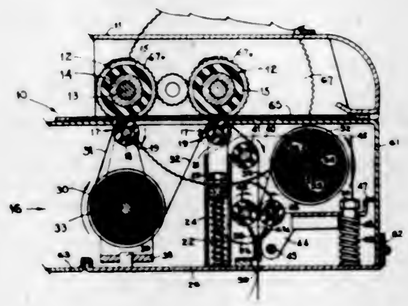
2,661,287
AQUEOUS ASBESTOS DISPERSION AND PROCESS FOR PRODUCING SAME
Glen D. Barbaras, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 15, 1949, Serial No. 127,529
15 Claims. (Cl. 92—1)

1. An aqueous dispersion having a pH of from 3 to 6 and comprising up to about 5% by weight of discrete, Crystallite, chrysotile asbestos fibers from 20 to 40 millimicrons in diameter and, as a dispersing agent, a dissolved metal salt having a monovalent anion and a cation containing a polyvalent metal, the amount of dispersing agent being enough to give from 0.1 milligram moles of the salt to 3 milligram moles of dissociated anion per gram of asbestos.

2,661,288
FORMING ASBESTOS PRODUCTS FROM POLYVALENT ION DISPERSED ASBESTOS
Glen D. Barbaras, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 15, 1949, Serial No. 127,530
4 Claims. (Cl. 92—21)

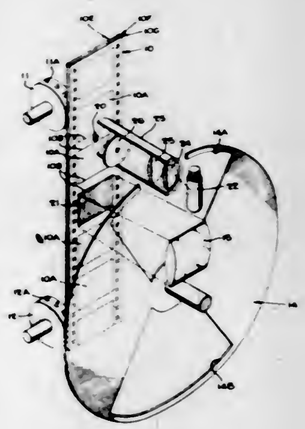
1. In a process for producing formed asbestos bodies the steps comprising disorienting oriented chrysotile asbestos by mechanical action at a pH of 3 to 6 in an aqueous solution containing as a dispersing agent a dissolved metal salt having a monovalent anion and a cation containing a polyvalent metal, the amount of dispersing agent being enough to give from 0.1 milligram moles of the salt to 3 milligram moles of dissociated anion per gram of asbestos, whereby the asbestos is obtained in the form of an aqueous dispersion of discrete, Crystallite fibers from 20 to 40 millimicrons in diameter, mixing therewith a dispersed, positively charged hydrous oxide of a metal selected from the group consisting of aluminum, zirconium, ferric iron, titanium, and stannic tin, and drying the dispersion as a formed body.

2,661,289
ADHESIVE TRANSFER AND FIXING APPARATUS
Clyde R. Mayo and Bernard J. Wolfe, Rochester, N. Y., assignors to The Haloid Company, Rochester, N. Y., a corporation of New York
Application January 21, 1952, Serial No. 267,444
4 Claims. (Cl. 95—1.9)



1. Apparatus for adhesive transfer of an image electrostatically adhering to an insulating image surface, comprising a support housing, a pressure assembly mounted on said housing, at least one pair of opposing transfer pressure rollers mounted one on said housing and the other on said pressure assembly, at least one of said rollers being a drive roller, the rollers thus being adapted to receive an image bearing member and propel such member between said rollers, a support member on the pressure assembly to receive a tacky-surfaced web material feeding said web into pressure contact with the image bearing surface and between said surface and all pressure rollers bearing thereagainst, means to strip the web from the image bearing surface, said means comprising a pair of fixing pressure rollers, at least one of which is a drive roller operating at equal speed with the transfer drive rollers, a support for a protective web material and means for feeding the stripped adhesive web and said protective web material together between the fixing pressure rollers with the protective web contacting the adhesive surface of the adhesive web, whereby the adhesive web and protective web emerge together from said rollers bearing a transferred image therebetween.

2,661,290
METHOD OF STRIPPING MULTILAYER NEGATIVES
Gerald F. Rackett, Sherman Oaks, Calif., assignor to Columbia Pictures Corporation, Los Angeles, Calif., a corporation of New York
Application September 23, 1948, Serial No. 50,693
3 Claims. (Cl. 95—2)



1. In the process of assembling multi-layer film produced from multi-layer multi-frame color film, the steps comprising: moving and exposing individual frames of said film while yet in a multi-layer assemblage, and photographing onto the individual strips of said film a sharply defined two-dimensional image between said individual frames, stripping the multi-layers of film into individual strips, processing each of said strips to develop the images photographed, transferring at least one of said strips onto an unperforated base, superimposing said strips with said two-dimensional image on each strip aligned, and then perforating said base with said two-dimensional images thus aligned.

2,661,291

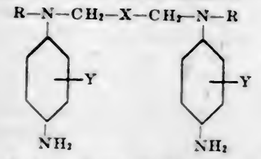
ANTIDIFFUSION DIAZOTYPES HAVING TETRAZO DIPHENYLS AS THE LIGHT SENSITIVE AGENT

Sam Charles Slifkin, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

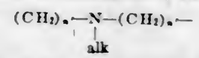
No Drawing. Application January 19, 1949, Serial No. 71,766

10 Claims. (Cl. 95—6)

1. A process of producing photoprints containing azo dyestuff images which comprises exposing under a pattern to rays of ultraviolet light a light-sensitive material comprising a base having thereon a light-sensitive layer containing a light sensitive tetrazo derivative of an aromatic diamine having the general formula



wherein X is a radical of the class consisting of $-(CH_2)_n-$, $-(CH_2)_{n'}$, $-O-(CH_2)_{n'}-$, $-(CH_2)_{n'}-CHOH-(CH_2)_{n'}-$, and



R is a member of the class consisting of H, alkyl and hydroxyalkyl; n is an integer from 0–8; n' is an integer from 0–4; and Y is a member of the class consisting of H and alkyl to effect decomposition of the light-sensitive tetrazo derivative where exposed, and developing the light-sensitive material by means of an alkali in the presence of an azo dye coupling component to effect coupling between undecomposed tetrazo derivative and said coupling component.

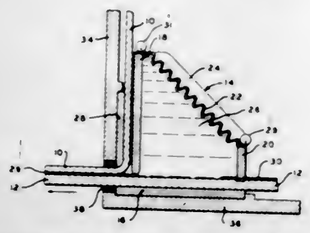
2,661,292

PRODUCT FOR DISPENSING A LIQUID-COATED SHEET

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application February 19, 1947, Serial No. 729,580

25 Claims. (Cl. 95—8)



1. A composite product for dispensing a pair of superposed sheet materials having a film of liquid therebetween, said product comprising, in combination, a disposable housing providing a chamber for containing a liquid, liquid contained within said chamber, means providing an ingress passage from the exterior of said housing into said chamber, means providing an egress passage from the interior of said chamber to the exterior of said housing, a first sheet material threaded through said passages so that a portion of the length of said sheet material is contained within said chamber, a leading portion of said sheet material projecting from said egress passage externally of said housing, a trailing portion of said sheet material projecting from said ingress passage, means providing a second ingress passage from the exterior of said housing into said chamber, a second sheet material extending into said chamber through said second ingress passage and out of said chamber through said egress passage in superposed relation with said first sheet material, the entire mass of liquid in said chamber being contained between the adjacent inner surfaces of said sheet materials, and sealing means for preventing flow of said liquid through said egress passage, movement of said sheet materials being effective, when said sealing means is rendered inoperative, to form a film of said liquid between said materials as the latter are withdrawn from said chamber through said egress passage.

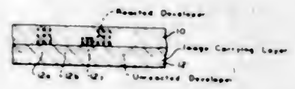
2,661,293

PROCESS OF PRODUCING A COLORED PHOTOGRAPHIC IMAGE BY MEANS OF EXHAUSTION OF DEVELOPER

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application October 8, 1946, Serial No. 702,039

8 Claims. (Cl. 95—88)



1. A process of forming positive transfer images in color wherein a single application of liquid to the exposed silver halide emulsion of a photosensitive element produces the necessary sequences of reactions for giving the finished positive print, said process comprising the steps of: permeating said silver halide emulsion with a liquid composition, and, during said permeation, having said silver halide emulsion so superposed on an image-receiving layer that said liquid has access to the latter layer; providing within the lamination comprising said photosensitive element and said image-receiving layer a pair of reagents capable of reacting with one another in the presence of an oxidizing agent to give a dye, one of said reagents being a color forming silver halide developer and the other a coupler, and said reagents being so distributed throughout said lamination as to have a substantially constant depthwise concentration per unit surface area of said lamination and at least one of said reagents being present per each said unit area substantially only in such quantity as to cause said reagent to be substantially completely reacted in the emulsion in the event of the full development of the silver halide of said unit area, said reagents being dissolvable in said composition when contacted thereby and when dissolved therein being mobile in said lamination: developing the latent image in the silver halide emulsion by means of said developer and causing so much of the said developer as is oxidized by this development to be substantially fully reacted with the coupler to produce a dye image in the emulsion and to there effect, by reason of said reaction, the exhaustion of the said reagent present in limited quantity in proportion to the development of silver per each said unit area of said lamination: transferring to said image-receiving layer in solution in said composition at least a part of the unexhausted portions of said reagents; thereafter, causing the transferred unexhausted portions of the said reagents to react in the image-receiving layer in the presence of an oxidizing agent to produce a dye image in said layer; and, throughout said process, maintaining said image-receiving layer free of appreciable amounts of silver, silver salts and material which, during said process or in the presence of light and air, will impart to said image-receiving layer a color that will adversely affect the visability of the said image in the image-receiving layer.

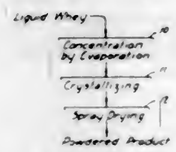
2,661,294

METHOD OF DRYING LACTEAL FLUIDS

Reginald E. Meade, Appleton, Wis., assignor to Western Condensing Company, San Francisco, Calif., a corporation of California

Application July 9, 1949, Serial No. 103,857

8 Claims. (Cl. 99—56)



1. In a process for the manufacture of a non-hygroscopic food product from a liquid lacteal material containing substantial amounts of lactose, the steps of concentrating the material by evaporation to form a liquid concentrate, causing at least 50% of the lactose in the concentrate to crystallize as small solid particles of lactose monohydrate dispersed in the concentrate, and then atomizing the resulting material and suspending the same in a drying gas to effect rapid drying to form a powdered product without removal of water of crystallization or resolution of crystallized lactose, with crystallized lactose remaining as such in the atomized particles and during drying.

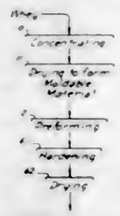
2,661,295

WHEY PRODUCTS AND PROCESS OF MANUFACTURE

Leo H. Francis and Nelson E. Rodgers, Appleton, Wis., assignors to Western Condensing Company, San Francisco, Calif., a corporation of California

Application September 12, 1950, Serial No. 184,498

4 Claims. (Cl. 99—57)



1. In a process for producing pelletized dried whey products without the use of a binder, the steps of drying liquid whey concentrate to form a moist powder containing from about 6 to 10% moisture, pressing the powdered material into pellet-like masses at a temperature from 90 to 130° F., contacting the formed masses with cooling air to effect hardening of the same and reducing the free moisture content by contacting the formed masses with drying air at a temperature on the order of 90 to 170° F.

2,661,296

RUST INHIBITING COMPOSITION

Knapel F. Schiermeier and Herbert A. Poitz, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application April 26, 1948, Serial No. 23,398

5 Claims. (Cl. 106—14)

3. A rust inhibiting composition of matter consisting essentially of from about 15 to 35% of a petroleum wax, from about 10 to 25% of lead salt of naphthenic acid and the balance being an aromatic solvent.

2,661,297

METHOD OF SOIL STABILIZATION

Conrad Lawrence Walsh, William Bernard Hawes, and Frank Foulger, Bulstrode, Gerrards Cross, England, assignors to A. S. P. Chemical Company Limited, Bulstrode, Gerrards Cross, England, a British company

No Drawing. Application May 27, 1949, Serial No. 95,884

7 Claims. (Cl. 106—15)

1. A method of stabilizing soil to obtain its maximum mechanical strength which comprises reducing the soil to a particle size sufficient to pass through a 100 mesh screen, adjusting the moisture content of the soil to a value approximating that at which the soil has the approximate maximum resistance to compression, admixing with said soil 3–5% of non-starchy dried vegetable husks which will pass through a 50 mesh screen and containing as essential ingredients thereof pectates and proteins with which has been admixed a finely ground material containing about 0.75% by weight, based on the soil, of a tri-valent metal sulfate, capable of forming insoluble complexes with said pectates and proteins contained in said husks, and compacting said admixed materials to a voidage of about 10%.

2,661,298

COMPOSITION FOR USE IN SAND MOLDING

Connor B. Shanley, Kirkwood, Mo.

No Drawing. Application September 19, 1949, Serial No. 116,618

2 Claims. (Cl. 106—38.23)

1. An adhesive for joining together the parts of a sand mold consisting of the following composition:

	Percent by weight
Bentonite	10 to 20
Water	40 to 55
Curbay	30 to 45

2,661,299

PROCESS OF MAKING PIGMENTED SPINNING SOLUTION

Harry Paul and John T. Watts, Coventry, England, assignors to Courtaulds Limited, London, England, a British company

No Drawing. Application November 23, 1949, Serial No. 129,186

Claims priority, application Great Britain January 10, 1949

7 Claims. (Cl. 106—198)

1. In a process for the production of a pigmented spinning solution of a cellulose derivative, the steps of agitating without grinding a substantially dry powdered cellulose derivative chosen from the group consisting of cellulose esters and cellulose ethers with a dry pigment

having a particle size not greater than 5 microns in a proportion not exceeding 12 per cent by weight of the cellulose derivative, until the pigment particles having substantially their original size are substantially uniformly distributed over the surfaces of the cellulose derivative particles, and then adding to the dry mixture so obtained a solvent for the cellulose derivative and stirring until the cellulose derivative has dissolved in the solvent, whereby the necessity for grinding after the addition of the pigment to the cellulose derivative is avoided and a pigmented spinning solution is produced which has the pigment particles suspended in it in substantially their original size and which is substantially free from aggregates of pigment.

2,661,300

ASPHALT CUTBACKS

Joseph W. Romberg and Ralph N. Traxler, Port Neches, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application July 6, 1949, Serial No. 103,328

3 Claims. (Cl. 106—278)

1. An asphalt cutback composition adapted for application to aggregate in road building and composed essentially of asphalt and naphtha in proportions adapted for application to aggregate in road building and about 10–100 parts per million by volume of a liquid lower dialkyl silicone polymer effective to suppress evaporation of the naphtha and increase the curing index of the cutback composition.

2,661,301

COMPOSITIONS COMPRISING BENTONITE-ORGANIC AMINE COMPOUNDS IN ASPHALTS, TARS, OR PITCHES

Robert G. Capell, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application April 4, 1949, Serial No. 85,479

12 Claims. (Cl. 106—281)

6. A composition of matter comprising a dispersion of a minor proportion of a compound of a bentonite and an organic nitrogen base containing at least 10 carbon atoms in an alkyl group in a major proportion of a composition selected from the group consisting of asphalts, tars and pitches, the amount of said compound in said composition of matter being sufficient to increase the softening point and improve the penetration characteristics of said composition of matter.

2,661,302

PROCESS OF PREPARING DENSE COMPOSITIONS OF ASPHALT AND ASBESTOS

John W. Keith, Beaumont, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application April 11, 1950, Serial No. 155,355

3 Claims. (Cl. 106—282)

1. A process for preparing dense plastic compositions comprising asphalt cutback and asbestos filler which comprises adding volatile thinner containing a minute proportion of a liquid lower dialkyl silicone polymer to asphalt to form an asphalt cutback, adding asbestos filler to said asphalt cutback and subjecting said silicone-containing mixture of asphalt cutback and asbestos filler to agitation at atmospheric temperature whereby air is rapidly released from said mixture and there is formed a dense plastic composition comprising asphalt cutback and asbestos filler.

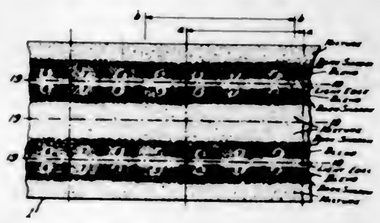
2,661,303

METHOD OF COATING ROOFING MATERIAL

George A. Fasold, Mount Healthy, and Howard E. Callahan, Silverton, Ohio, assignors to The Philip Carey Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio

Application April 7, 1950, Serial No. 154,528

3 Claims. (Cl. 117—5)



1. A method of distributing mineral granules on a web of roofing material to provide at least two rows of shadow blend strip shingles in opposed butt edge relationship which consists in feeding along an asphaltic coated web in tacky condition, depositing on the tacky web, in a series of bands spaced to form the middle exposure portions of the strip shingles in each row, batches of granules of predetermined uniform color value in heterogeneously mixed areas having blended end edges, the granules in said areas having distinctly different chromatic values with substantially the same color value, depositing in bands adjacent to opposed side edges of the first referred to bands, and which will form the overlapping areas of the opposed strip shingles in each row, granules of darker color value than the granules of the first noted band while controlling the deposition to produce edge blending with the side edges of the first referred to bands, depositing in double width bands adjacent to the opposite side edge of the first referred to bands and which will form the butts of the opposed strip shingles in each row granules of lighter color value than the granules of the first noted band while controlling the deposition to produce edge blending with the opposed side edges of said first referred to bands, pressing the deposited granules into the coated web and then cutting the web forming rows of oppositely arranged strip shingles medially of said double width bands to provide strip shingles which when laid on a roof will produce an optical effect of deep shadow below the butts of the shingle units of each strip without an optical effect of banding.

2,661,304

METHOD OF MANUFACTURING MOSAIC SCREENS FOR USE IN TELEVISION TRANSMITTING TUBES

Alfred Sommer, Iver, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain

No Drawing. Application July 24, 1948, Serial No. 40,628

Claims priority, application Great Britain August 9, 1947

3 Claims. (Cl. 117—33.2)

1. A method of manufacturing a mosaic screen of the kind comprising discrete metallic elements and suitable for use in a television transmission

tube, comprising the steps of forming on an insulating support a thin layer in a solid state of antimony trisulphide in a quantity predetermined to produce a multiplicty of discrete elements of antimony upon reduction of the trisulphide, and thereafter heating said layer and exposing the heated layer to hydrogen to reduce the antimony trisulphide to a multiplicity of discrete elements of antimony.

2,661,305

METHOD FOR IMPROVING THE BRIGHTNESS OF TEXTILE MATERIALS AND PRODUCT

Henry B. Appleton and Peter F. Kiehl, Deighton, Huddersfield, England, assignors to L. B. Holliday & Company, Limited, Deighton, Huddersfield, England

No Drawing. Application November 1, 1949, Serial No. 124,946

12 Claims. (Cl. 117—33.5)

1. A method of improving the brightness of textile materials comprising the steps of immersing a textile material in an aqueous agent having distributed therethrough a derivative of dihydrocollidine selected from the group consisting of 3,5 dicarboxylic acid esters of dihydrocollidine, 3,5 dicarboxylic acid esters of dihydrocollidine in which the gamma methyl group is substituted by another alkyl group, 3,5 dicarboxylic acid esters of dihydrocollidine in which the gamma methyl group is substituted by an aryl group, 3,5 diphenylamido dihydrocollidine and methoxy, methyl, monochloro and dichloro derivatives on the phenyl groups of 3,5 diphenylamido dihydrocollidine which fluoresces with a blue-white fluorescence under ultra-violet light until said textile material is impregnated with a sufficient amount of said derivative of dihydrocollidine to render said textile material whiter after rinsing and drying; and rinsing and drying said textile material being impregnated with said derivative of dihydrocollidine so as to obtain a substantially dry textile having said derivative of dihydrocollidine deposited thereon, thereby obtaining a brighter toned textile.

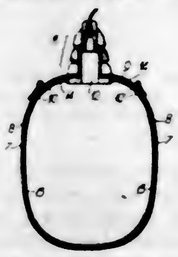
2,661,306

METHOD OF RUBBERIZING HOLLOW ARTICLES OF FIBROUS MATERIAL

Juan Duarry-Serra, Barcelona, Spain

Application June 16, 1950, Serial No. 168,429

5 Claims. (Cl. 117—47)



3. A method for rubberizing the inner walls of hollow articles made of permeable fibrous material having pores and interstices comprising the steps of moistening the outer walls of a hollow article, filling it with a predetermined amount of an aqueous rubber dispersion, inflating the article, closing it, turning the inflated article to cause the desired distribution of the rubber dispersion on the inner walls, opening the article and injecting carbon dioxide gas under pressure, thereby causing coagulation of the rubber dispersion on the inner walls and forcing the dispersing medium under pressure outwardly through the pores of the fibrous material, and then heating the article while maintaining the inner gas pressure.

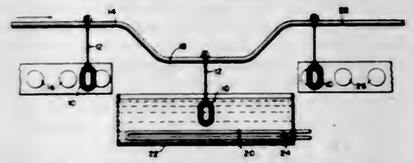
2,661,307

PROCESS FOR APPLYING A COMPLETELY POLYMERIZABLE THERMOSETTING RESINOUS COMPOSITION TO AN ELECTRICAL MEMBER

Newton C. Foster, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 19, 1949, Serial No. 71,576

5 Claims. (Cl. 117—49)



1. In the process of treating a member with a completely polymerizable thermosettable resinous composition, the composition being polymerizable to a gel when heated for 2 to 5 minutes at a predetermined temperature, the steps comprising heating the member to a temperature of not substantially exceeding the order of 200° C. and at least 20° C. above the predetermined temperature, dipping the heated member in the completely polymerizable composition for a period of time of the order of several minutes to cause the composition in contact with the member to polymerize and gel, the thickness of the gel being proportional to the time of immersion in the composition, withdrawing the member when a sufficiently thick thermoset coating of the gel has formed on the member, and heat-treating the member and gel coating to complete the polymerization of the applied composition.

2,661,308

PROCESS OF COATING PAPER AND PRODUCT RESULTING THEREFROM

Julian L. Azoriosa, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 18, 1948, Serial No. 60,822

11 Claims. (Cl. 117—62)

2. The method of producing coated paper of the type having a base and a printing surface consisting of a continuous film of pigment interspersed in binder by means of which the filler is retained on the base which comprises completely covering a face of a paper web with a continuous viscous coating consisting essentially of a pigment dispersed in an aqueous solution of a binder consisting essentially of a hydrolyzed copolymer of vinyl compounds and then drying the coated paper web, and hydrolyzed copolymer containing carboxyl groups in an amount equivalent to a molar ratio of total vinyl compound to carboxyl-containing vinyl compound of from 2 to 30, said copolymer prior to hydrolysis being a copolymer of vinyl acetate with a vinyl compound hydrolyzable to a vinyl carboxylic acid and having the formula

$$CH_2=\underset{\displaystyle R_1}{\overset{|}{C}}-R_1$$

where R_1 is selected from the group consisting

of hydrogen, methyl and ethyl and where R_2 is selected from the group consisting of amide, nitrile, carbomethoxy and carbethoxy.

2,661,309

COATED PAPER AND METHOD OF PRODUCING SAME

Julian L. Azoriosa, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 18, 1948, Serial No. 60,827

11 Claims. (Cl. 117—62)

5. The method of producing coated paper of the type having a base and a printing surface consisting of a continuous film of pigment interspersed in binder by means of which the filler is retained on the base which comprises completely covering a face of a paper web with a continuous viscous coating consisting essentially of a pigment dispersed in an aqueous solution of a binder consisting essentially of a copolymer of acrylic acid and acrylamide, treating the coated paper web with an aqueous solution of a polyvalent metal salt to insolubilize the binder, and drying the coated paper web, the acrylic acid content of the copolymer being from 6% to 10%, the total solids content of the coating as applied being from 50% to 65%, the copolymer content of the coating as applied being from 6% to 10% based on the pigment, said copolymer being soluble in water at room temperature.

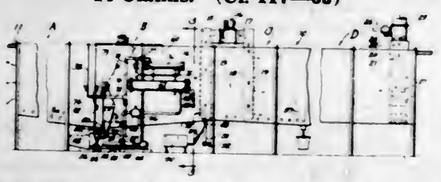
2,661,310

APPARATUS FOR AND METHOD OF PAINTING

George J. Page and John Harrison, Chicago, Ill., assignors to The Spra-Con Company, Chicago, Ill., a corporation of Illinois

Application June 25, 1949, Serial No. 101,396

14 Claims. (Cl. 117—63)



4. In the method of painting surfaces of articles by a flow coat process, the steps of mounting the article in a position to eliminate pockets which might prevent drainage of excess liquid paint from the surfaces thereof, advancing the mounted article rectilinearly through a housing, rotating an effusor about a circular path having an axis substantially perpendicular to the direction of movement of the article through the housing and offset from the path thereof but directed toward the article as it passes therethrough, feeding liquid paint composition in a continuous solid stream under pressure to the effusor whereby the liquid paint composition is ejected as a solid stream and is thrown solely by the combination of said pressure and centrifugal force onto the surfaces of the article as it passes through the housing, balancing the rate of movement of the article through the housing with the volume of liquid paint thrown from the effusor to flood the surfaces of the article with the paint composition, and maintaining an atmosphere of solvent vapors in a drainage area immediately following the area of paint application whereby the excess paint composition is more completely removed from the surfaces.

2,661,311

METHOD FOR RENDERING CELLULOSIC MATERIALS FIRE RESISTANT WITH PHOSPHOROUS OXYCHLORIDE-ANHYDROUS AMMONIA REACTION PRODUCTS AND PRODUCTS PRODUCED THEREBY

Russell L. Jenkins, Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 21, 1950, Serial No. 169,506

2 Claims. (Cl. 117—137)

1. A process for the treatment of cellulosic textiles which comprises impregnating the said cellulosic textiles with a previously-prepared solution of a nitrogen- and phosphorus-containing product, to apply to the said textiles from 2% to 90% by weight of the said nitrogen- and phosphorus-containing product, and thereafter drying the said impregnated cellulosic material, said nitrogen- and phosphorus-containing product being obtained by reacting one mole of phosphorus oxychloride with at least five moles of anhydrous ammonia in an inert solvent, which dissolves but does not react with the said reactants, at a temperature below 100° C. to produce an initially-formed, anhydrous-ammonia-soluble product mixed with ammonium chloride, then heating said initially-formed nitrogen- and phosphorus- containing product to a temperature of at least 110° C. but below 150° C. until said nitrogen- and phosphorus-containing product is rendered substantially insoluble in liquid anhydrous ammonia, and has a molecular weight within the limits of from 180 to 300, a nitrogen/phosphorus atomic ratio within the limits of from 2.1 to 2.3, and when dissolved as a saturated solution in water yields a solution having a pH within the limits of 7.0 to 8.5.

2,661,312

TEXTILE FINISHING COMPOSITION AND METHOD OF TREATING TEXTILE MATERIALS THEREWITH

Graham M. Richardson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 14, 1951, Serial No. 231,678

2 Claims. (Cl. 117—139.4)

2. A process for treating textile materials which comprises contacting the textile material with an aqueous composition containing from 2 to 12 percent by weight of 1,3-bis-(hydroxymethyl) 2-imidazolidone, from 1.5 to 7 percent by weight of starch and from 0.1 to 3.0 percent tartaric acid at a temperature between 165° F. and the boiling point of the composition, thereafter drying the treated textile material and heating it to a temperature above the boiling point of the composition until the treating agent is set upon the textile.

2,661,313

PROCESS FOR IMPROVING THE RESISTANCE TO SHRINKING AND FELTING OF FABRICS

Kern E. Folkers, Winchester, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 13, 1950, Serial No. 138,524

9 Claims. (Cl. 117—141)

1. A process of improving the resistance to shrinking and felting of fabrics comprising animal yarns which comprises wetting out the fabric in an acidic aqueous colloidal solution of (1) a partially polymerized positively charged methyl ether of methylol melamine condensation product containing from 2.8 to 6 mols of combined formaldehyde per mol of melamine and (2) a water-soluble organic acid selected from the group consisting of acetic acid, hydroxyacetic acid and formic acid; extracting the fabric to deposit from 3.5 to 8% by weight, based on the fabric, of said condensation product; and heating said fabric at temperatures between 200 and 325° F. to insolubilize said condensation product.

2,661,314

METHOD OF REMOVING RUST FROM METAL SURFACES

Edward S. Criddle, Columbia, Tenn.

No Drawing. Application December 6, 1951, Serial No. 260,343

2 Claims. (Cl. 134—29)

1. A method of removing rust from metal surfaces, consisting in submerging the rust coated surfaces in a solution of blackstrap molasses dissolved in water, subjecting the rust coated surfaces to the action of the solution for a period of substantially six days, and finally subjecting the metal surfaces to the action of a solution of bicarbonate of soda and water removing all foreign matter therefrom.

2,661,315

PROLONGED-EFFECTIVENESS INJECTABLE THERAPEUTIC PREPARATION

Alfred E. Jurist, Brooklyn, N. Y., and John C. Burke, Milltown, and William E. Gaunt, Dunellen, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md., a corporation of Virginia

No Drawing. Application December 19, 1947, Serial No. 792,856

2 Claims. (Cl. 167—65)

1. A substantially anhydrous non-gelled injectable therapeutic preparation comprising a therapeutically-effective salt of penicillin dispersed in a suspension of a calcium salt of a physiologically-acceptable soap-forming acid in an injectable, fatty, non-drying oil, the quantity of such salt being sufficient to provide a solid phase thereof in the oil and thereby maintain prolonged effective blood levels of penicillin upon injection of said preparation compared with the blood levels obtained upon injection of a similar preparation not containing such salt.

2,661,316

COSMETIC COMPOSITION CONTAINING LANOLIN IN HIGH CONCENTRATION

Herbert A. Martini, Chicago, Ill., assignor to Jesse Luther Peacock, Chicago, Ill.

No Drawing. Application June 5, 1953, Serial No. 359,945

5 Claims. (Cl. 167—90)

1. A cosmetic which is liquid at room temperature consisting essentially of lanolin in amounts greater than 20 percent by weight in solution with oleyl alcohol in amounts greater than 10 percent by weight in the cosmetic composition, the remainder being composed of oil as a diluent with less than 1 percent by weight perfume oils and antioxidants.

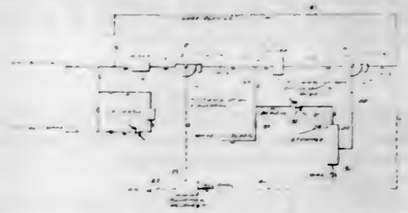
2,661,317

SEPARATION OF WAX CONSTITUENTS AND THE LIKE FROM OIL

William E. Skelton and Howard V. Hess, Beacon, George B. Arnold, Glenham, and Boyd L. Mahan, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application March 17, 1949, Serial No. 81,926

1 Claim. (Cl. 196—17)



A continuous method of separating wax from wax-bearing mineral oil comprising subjecting said wax-bearing mineral oil to contact with urea in solid particle form at a temperature in the range of about 75 to 125° F. in the presence of a small amount of a polar solvent liquid, forming a mixture containing crystalline complex composed of wax constituents and urea, separating by filtration resulting complex from dewaxed oil and polar solvent, recovering polar solvent liquid from the dewaxed oil, subjecting separated complex to contact with benzol at a temperature in the range of about 150 to 200° F., thereby decomposing said complex to form a mixture comprising a solution of wax in benzol and urea in solid particle form, filtering said last mentioned mixture to separate therefrom a substantially wax-free filter cake of urea in solid particle form and retaining some benzol, commingling said cake retaining benzol with aforesaid recovered polar solvent liquid, and recycling said commingled mixture into contact with fresh feed oil.

2,661,318

TROUGH GREASES AND PROCESS OF PREPARING THE SAME

Frederick H. MacLaren, Munster, and Lyle P. Schwartz, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application October 25, 1950, Serial No. 192,136

12 Claims. (Cl. 196—17)

1. A composition of matter consisting essentially of microcrystalline wax melting in the range of 120° F. to 165° F. and a refined mineral oil in such proportions that the oil will constitute about 50% to 85% of this mixture and added microcrystalline wax melting in the range of about 95° F. to 115° F. in an amount in the range of about 2 to 25 weight per cent based on the total mixture, both of said microcrystalline waxes being further characterized by having boiling ranges above 900° F. on a true boiling point basis.

12. The method of making a petrolatum mixture from a reduced petroleum crude oil which is substantially free from asphalts and resins and from which components boiling up to 900° F. and including motor oil distillate have been distilled, which method comprises separating from said reduced crude a petrolatum mixture consisting essentially of microcrystalline waxes and oil, deoiling said mixture to obtain a substantially oil free microcrystalline wax having a melting point of at least about 120° F. and an oil containing

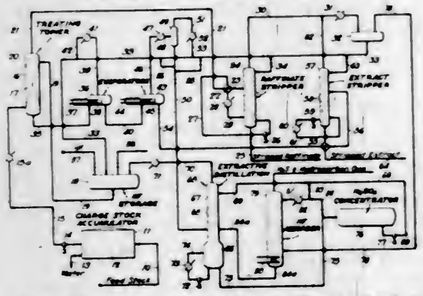
microcrystalline waxes of lower melting point, separating from last named oil substantially oil-free microcrystalline wax having a melting point in the range of about 95 to 115° F., blending refined white mineral oil with said microcrystalline wax having a melting point of at least 120° F. in an amount to give a mixture containing about 50 to 90 weight per cent white mineral oil based on these two components and adding to these two components said microcrystalline wax having a melting point in the range of 95 to 115° F. in an amount in the range of 2 to 25 weight per cent based on the total mixture.

2,661,319

HYDROGEN FLUORIDE PURIFICATION

William A. Shire, Jr., Munster, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application March 21, 1950, Serial No. 150,856
5 Claims. (Cl. 196—31)



5. The method of processing a liquid hydrogen fluoride stream containing water which cannot be removed therefrom by simple distillation which method comprises introducing said liquid aqueous hydrogen fluoride stream at an intermediate level in an extractive distillation zone, introducing sulfuric acid of about 90 to 100 weight per cent concentration at the upper part of said zone in an amount sufficient to combine with the water contained in the introduced stream without diluting the sulfuric acid below about 80 weight per cent, maintaining said zone at a pressure of about 5 to 10 pounds per square inch gauge, maintaining the top of said zone at a temperature in the range of about 80° to 120° F., heating the bottom of said zone to maintain it at a temperature in the range of about 300° to 350° F., withdrawing from the top of said zone as anhydrous HF substantially all of the HF introduced into said zone, and withdrawing from the base of said zone sulfuric acid of at least about 80 weight per cent concentration and free from HF whereby said withdrawn sulfuric acid may be concentrated by removal of water to obtain the concentrated acid for return to the upper part of said zone.

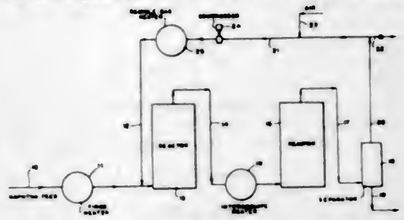
2,661,320

CATALYTIC REFORMING PROCESS

La Vern H. Beckberger, East Chicago, Ind., and Rudolph C. Woerner, Houston, Tex., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application July 14, 1951, Serial No. 236,792
4 Claims. (Cl. 196—50)

1. In a process for reforming a petroleum hydrocarbon fraction boiling in the naphtha range in the presence of a molybdenum oxide reforming catalyst on alumina base containing a stabilizing proportion of silica and in the presence of a hydrogen containing gas stream under conditions of about 850° to 1000° F., about 500 to 1000 p. s. i. g., 0.5 to 4.0 liquid hourly space velocity and a hydrogen to hydrocarbon ratio of about 2/1 to 8/1, the step of adding about 0.001 to 0.2% oxygen to the hydrogen containing gas stream.

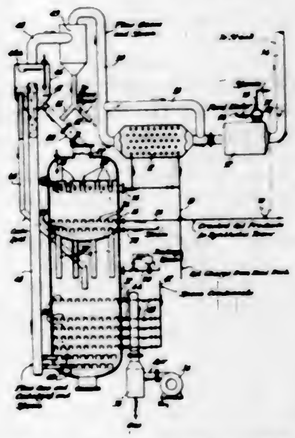


2,661,321

HYDROCARBON CONVERSION PROCESS AND REGENERATION OF FOULED CONTACT MATERIAL UTILIZING FLUE GAS AND STEAM AS THE GAS LIFT

August H. Schutte, Hastings on Hudson, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application November 10, 1952, Serial No. 319,771
6 Claims. (Cl. 196—52)



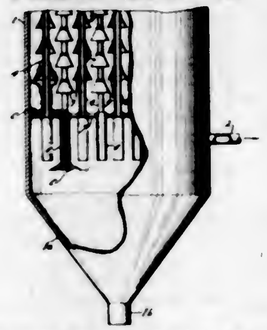
1. A method of continuously converting preheated hydrocarbons by contact with a gravity flowing bed of contact material in particle form in a reaction zone and thereafter revivifying said contact material in a regeneration zone, which comprises distributing said hydrocarbons over a horizontal portion of said gravity flowing bed whereby said hydrocarbons are substantially converted, separating the converted hydrocarbons from said contact material, passing said bed through a vapor sealing zone to said regenerating zone, distributing a combustion supporting gas and water across said regeneration zone at several elevations in intimate contact with said gravity flowing bed whereby said contact material is restored substantially to its original activity and a substantial volume of products of combustion and steam vapor are formed, entraining said particle form contact material in said products of combustion and steam vapor at the bottom portion of said regenerating zone and laterally removing and discharging said contact material in vapor entrainment from said regenerating zone, elevating said entrained contact material by said products of combustion to a position above the reaction zone, and thereafter returning said contact material to said reaction zone.

2,661,322

PROCESS AND APPARATUS FOR REACTING GASEOUS MEDIA IN THE PRESENCE OF HOT CONTACT MATERIAL

James E. Evans, Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application July 10, 1946, Serial No. 682,463
9 Claims. (Cl. 196—52)



1. In a process wherein a gaseous medium undergoes reaction in the presence of hot contact material, the steps which comprise passing said contact material under the influence of gravity downwardly through the upper portion of a contact zone as a continuous non-turbulent solid bed, causing the contact material, in the lower portion of said contact zone, to form a plurality of approximately parallel portions of gravitating contact material which, first, diverge from and then converge toward the respective vertical axes of said portions with the resultant formation in each portion of a zone that is substantially free from contact material and which, second, are circumferentially complete around each zone, the vertical axes of said plurality of said diverging and converging portions of gravitating contact material being spaced different distances from the vertical axis of said contact zone, and passing a gaseous medium vertically through said contact zone by way of a path including said zones substantially free of contact material and the bed of contact material, said gaseous medium undergoing reaction principally in the continuous bed in the upper portion of said contact zone, through which bed the gaseous medium travels in a straight vertical direction throughout the vertical extent of said bed.

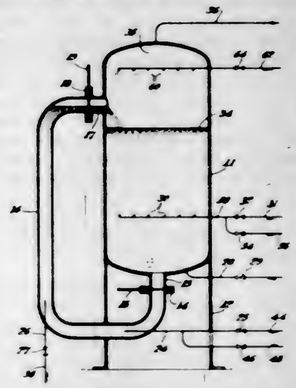
9. An apparatus for conversion of fluid hydrocarbons in the presence of a particle-form contact material which comprises in combination: means defining a conversion vessel adapted to confine gaseous material and a column of contact material; means to introduce particle-form contact material into the upper section of said vessel; means to withdraw contact material from the lower section thereof; means to introduce fluid hydrocarbons into the upper section of said vessel; a plurality of inverted cup-shaped gas collecting members positioned within the lower section of said vessel, said collecting members being arranged at a plurality of levels therein and being disposed in vertically staggered relation with respect to laterally-adjacent collecting members, gas withdrawal tubes registering with the under sides of said collecting members, said tubes having orifices therein establishing communication between the tubes and the collecting members at the point of registry, said orifices being progressively larger for collecting members at successively lower levels.

2,661,323

ASPHALT BLOWING

Wheaton W. Kraft, Scarsdale, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application November 18, 1949, Serial No. 128,118
2 Claims. (Cl. 196—74)



1. The method of oxidizing a hydrocarbon residue to produce a blown asphalt of a predetermined degree of oxidation in a closed vertical vessel having an external attenuated circulation conduit including a substantially vertical portion, which comprises, introducing a hydrocarbon residue into the external conduit at a point near the bottom of the vertical vessel in a direction of flow away from the bottom of the vessel, introducing steam and oxidizing gas into the lower part of the vertical vessel to oxidize the major portion of the hydrocarbon residue therein and drive off volatile components therefrom, introducing an oxidizing gas into the hydrocarbon residue in the lower part of said vertical portion of the external conduit downstream of the point of introduction of the hydrocarbon residue and in a direction of flow away from the bottom of the vessel so as to simultaneously create a density difference between the hydrocarbon residue in the vertical vessel and in the external conduit by reducing the density of the residue in the vertical portion of the external conduit, oxidizing the hydrocarbon residue in the external conduit at its reduced density, establishing circulation of the residue in the vessel and in the conduit by the density difference created, spray discharging the oxidized hydrocarbon residue from the external conduit into the vertical vessel above the liquid level therein to facilitate removal of light components from the discharge, withdrawing said light components from the top of said vessel and separately withdrawing blown asphalt product.

2,661,324

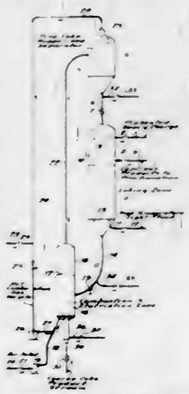
CONVERSION OF HEAVY HYDROCARBONACEOUS MATERIALS IN THE PRESENCE OF SUBDIVIDED COKE

Frederick W. Leffer, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application February 25, 1950, Serial No. 146,286
12 Claims. (Cl. 202—14)

1. An improved method for converting a heavy hydrocarbonaceous charge stream in the pres-

ence of subdivided coke, which comprises introducing a stream of heated fine coke particles into a confined coking zone and contacting them therein with said heavy charge stream at a temperature at which said heavy charge is converted into lower boiling vaporous products and coke with the transformation of at least a portion of said fine coke into coarser particles, continuously withdrawing resulting vaporous conversion products from said coking zone and passing them to a fractionating zone, discharging a stream of mixed fine and coarser coke particles from said coking zone into a fluidized bed of coke particles maintained in the lower portion of a separate confined combustion zone, introducing a gas stream containing free oxygen into the lower portion of said fluidized bed and therein burning a portion of the coke and heating the residual coke particles while simultaneously passing said oxygen-containing gas and resulting combustion gases upwardly through said fluidized bed at a rate at which fine coke particles



are elutriated from the coarser particles and are entrained in the gas mixture disengaging from said fluidized bed into the upper portion of said combustion zone, passing the resulting hot fine coke suspension from said combustion zone into a separate confined collecting zone of higher elevation than said coking zone, separating said suspension in said collecting zone at a temperature substantially above the average temperature maintained in the coking zone into combustion gases which are continuously discharged from the upper portion of said collecting zone and into fine coke particles which are collected in the lower portion thereof, passing a stream of the separated fine coke particles from the lower portion of said collecting zone substantially by gravitational flow as said heated fine coke particles into said coking zone, and withdrawing a stream of relatively coarse coke particles from the lower portion of said fluidized bed and said combustion zone as net coke production.

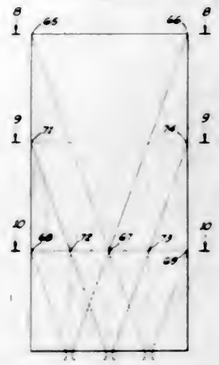
2,661,325

METHOD AND APPARATUS FOR EXTRACTING VOLATILE CONSTITUENTS FROM CARBONACEOUS MATERIALS

Harry K. Savage, Downey, Calif.

Application October 10, 1950, Serial No. 189,438
8 Claims. (Cl. 202—15)

8. A retort for the recovery of volatile constituents from broken carbonaceous material, comprising: walls forming a closed chamber having a substantially horizontal floor, inlet means for the delivery of broken carbonaceous material into the chamber for gravity flow therethrough, outlet means for the discharge of spent material from the chamber including a plurality of outlets spaced longitudinally and laterally at intervals about the floor, the distance between centers of adjacent outlets being no greater than twice the distance between a wall of the chamber and the center of an adjacent outlet, whereby the cones of descending broken carbonaceous material feeding adjacent outlets intersect with-



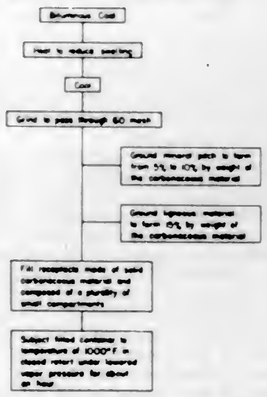
in the chamber at a height above the floor no greater than the height of the intersection of the said cones with the chamber walls, means for injecting hot gases into the chamber adjacent each of said outlets, and means for independently opening and closing the outlets in any desired sequence whereby localized longitudinal and lateral shifting of said material may be effected to minimize channeling of said hot gases within said material.

2,661,326

METHOD OF MANUFACTURING BRIQUETTES

Albert Leeds Stillman, Plainfield, N. J., assignor to Fuel Research Corporation, New York, N. Y., a corporation of Delaware

Application April 5, 1948, Serial No. 19,160
2 Claims. (Cl. 202—25)



1. The method of manufacturing briquettes, which comprises subjecting a bituminous coal which ordinarily would swell when heated, to a temperature of from 350 degrees F. to 400 degrees F. for ten minutes, cooling the thus treated coal to atmospheric temperature, grinding the

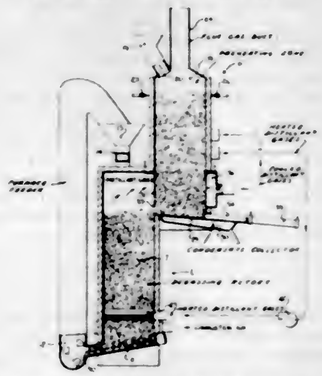
treated coal until it passes wholly through a sieve of 60 mesh, mixing with the coal ground mineral pitch and ligneous material to form a finely powdered carbonaceous material in which the pitch forms approximately 5% to 10% by weight, of such carbonaceous material, the ligneous material forms approximately 15% by weight, of such carbonaceous material, and the ground, treated bituminous coal forms approximately from 75% to 80% by weight, of such carbonaceous material, filling a receptacle made of solid cellulose material and composed of a plurality of small compartments with the powdered carbonaceous material, and then subjecting the filled container to a temperature of approximately 1000 degrees F. in a closed retort under lowered vapor tension for about one hour to convert the carbonaceous material into carbonized low temperature char and to convert the cellulose material of the receptacle into layers of fragile carbon on the surfaces of the briquettes.

2,661,327

APPARATUS FOR THE DESTRUCTIVE DISTILLATION OF OIL SHALE

David Dalin, Stenkullen, Ronninge, Sweden

Application December 4, 1950, Serial No. 198,993
8 Claims. (Cl. 202—106)



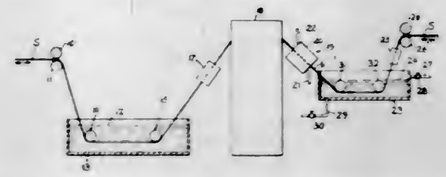
1. Apparatus for the dry distillation of oil from oil bearing shale and similar carbonaceous material, comprising: an upright retort closed except for an inlet in the upper portion thereof through which the material to be degassed enters and an outlet at the bottom through which the degassed residue coke is discharged; means defining a furnace shaft along side the retort but isolated therefrom; means for conveying degassed residue coke from the bottom of the retort into the top of the furnace shaft; means defining an upright preheating chamber having its lower portion laterally adjacent to and in open communication with the upper portion of the retort; a perforate wall separating the laterally adjacent portions of the preheating chamber and the retort, said wall having a feed opening therein adjacent to the bottom of the preheating chamber and through which preheated material may be fed from the bottom of the preheating chamber into the retort, and the perforate character of said wall allowing distillant gases to flow from the retort into the preheating chamber; a sump under the preheating chamber; an apertured wall defining the bottom of the preheating chamber and dividing the same from the sump so that distillant gases condensed in the preheating chamber may collect in the sump; means for moving preheated material from the bottom of the preheating chamber into the retort through the feed opening in said perforate wall; and means for conducting the hot combustion gases from the furnace shaft in indirect heat exchange relation with the contents of the preheating chamber.

2,661,328

METHOD OF FLOW-BRIGHTENING TINPLATE

Edwin J. Smith, Weirton, W. Va., assignor to National Steel Corporation, a corporation of Delaware

Application August 19, 1948, Serial No. 45,172
10 Claims. (Cl. 204—36)



1. In the process of treating electrolytic tinplate strip in which the tinplate is passed through a flow-brightening zone and the tin coating melted, the steps comprising, passing the strip from the flow-brightening zone and precooling the molten tin coating in a gaseous atmosphere without effecting solidification of the tin coating, and then passing the precooled strip through a bath of quench water having a temperature not above 135° F. and solidifying the tin coating in the quench bath.

2,661,329

METHOD OF TREATING ELECTROPLATED MAGNESIUM CASTINGS

Herbert K. De Long, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application April 13, 1951, Serial No. 220,981
3 Claims. (Cl. 204—37)

1. In a method of treating a casting of a metal selected from the group consisting of magnesium and the magnesium base alloys, said casting having an electroplated metallic coating thereon, so as to prevent blistering of the coating when the temperature of the casting is raised above about 450° F., the step which consists in subjecting the electroplated casting to a heating for 4 to 16 hours at a temperature between 250° F. and 450° F.

2,661,330

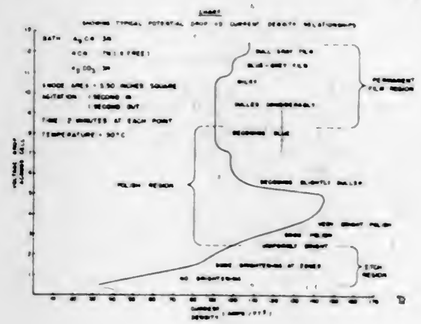
METHOD OF ELECTROPOLISHING STERLING SILVER

Frederick Sullivan, Wilmington, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts

Application October 21, 1950, Serial No. 191,480
3 Claims. (Cl. 204—140.5)

1. A method for the anodic polishing of silver-copper alloys containing at least 90% silver in an electrolytic cell containing a cyanide bath, which comprises the steps of applying electric current and potential difference between such silver-copper alloy as the anode surface, and the cathode of the cell, and of imposing a cycle of movement of the anode in and out of the cyanide bath at a rate equal to at least 10 cycles per minute, said potential difference between such alloy as the anode surface, and the cathode of the cell during

the period of immersion being below that which will form permanent discoloration and above that



which will form etching, until the silver alloy acquires a polish thereon, said cyanide bath containing at least 0.35 mol of free cyanide.

2,661,331

PHOTOPOLYMERIZATION PROCESS

Edward G. Howard, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 1, 1950, Serial No. 141,865

8 Claims. (Cl. 204—158)

8. Process for polymerizing an ethylenically unsaturated monomer subject to addition polymerization which comprises irradiating, with light in the range 3200–7000 Å., an aqueous dispersion containing said monomer, polyvalent ion of the class consisting of cupric, ferric, and ferrous ions, and a soluble salt of an aryl diazosulfonic acid.

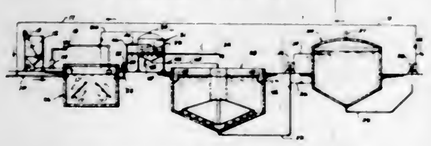
2,661,332

SEWAGE TREATMENT

Everett N. Mortenson, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois

Application September 29, 1949, Serial No. 118,510

6 Claims. (Cl. 210—2)



1. The process of treating raw wastes, which comprises: mixing a fresh, unsettled raw waste of high solids content with a substantial portion of active anaerobic sludge from a digester; adjusting the pH of the mixture thus formed to at least pH 7 and agitating to flocculate the suspended solids in said raw waste; thereafter settling the resulting mixture to produce a supernatant liquid substantially free of suspended solids and a settled sludge; separating said settled sludge from said supernatant liquid and delivering the separated sludge to a digester; subjecting said separated sludge to anaerobic digestion in said digester; discharging a portion of the active anaerobic digested sludge from the process; and returning a substantial portion of said active anaerobic digested sludge for admixture with said incoming raw waste.

2,661,333

METHOD FOR PURIFICATION OF WATER

Harry Leonard Schein, Stockholm, Sweden, assignor to Merkantila Ingeniörsbyrån Pehr Husberg Aktiebolag, Stockholm, Sweden, a corporation of the Kingdom of Sweden

No Drawing. Application April 29, 1949, Serial No. 90,568

Claims priority, application Sweden July 2, 1948

1 Claim. (Cl. 210—28)

In the purification of the circulating waters in swimming pools, the process which consists in superchlorinating the water beyond the breakpoint to produce an excess of actually free chlorine and then passing the superchlorinated water through a filter bed of a dolomite, which has been partly burned substantially to decompose its magnesium carbonate content into magnesium oxide and CO_2 but to leave its calcium carbonate content substantially unchanged, thereby converting the said free chlorine into hypochlorite and raising the pH of the water up to at least about 8.

2,661,334

WATER-IN-OIL EMULSION DRILLING FLUID

James Lawson Lummus, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application February 11, 1952, Serial No. 270,941

16 Claims. (Cl. 252—8.5)

1. A stable water-in-oil emulsion drilling fluid comprising from about 40 to about 75 parts by volume of water, and from about 25 to about 60 parts by volume of oil, said emulsion drilling fluid containing at least 2.5 pounds per barrel of an oil-soluble, non-ionic, surface-active ester of a polyhydric alcohol with an acid having at least twelve carbon atoms to the molecule and said emulsion drilling fluid also containing at least 0.1 pound per barrel of a water-soluble, non-ionic, surface-active agent.

2,661,335

LUBRICATING COMPOSITION

John Mann Butler, Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application September 28, 1951, Serial No. 248,870

1 Claim. (Cl. 252—35)

An improved grease which comprises a petroleum fraction containing from one to 20% of a fatty acid soap and from 0.01 to 5% of a compound made by the alkylation of a polystyrene having a molecular weight between 150,000 and 1,000,000, the alkyl group of said alkylated polystyrene having at least 4 carbon atoms and a total substituent having an average of from 6 to 12 carbon atoms per styrene ring.

2,661,336

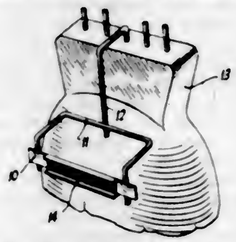
GETTER MATERIAL FOR ELECTRON DISCHARGE DEVICES

Ernest A. Lederer, Essex Fells, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 17, 1948, Serial No. 60,525

9 Claims. (Cl. 252—181.4)

4. In an electron discharge device processed at relatively high temperatures, a getter comprising an unreduced material consisting of barium cerate having the chemical expression $BaO \cdot CaO_2$ and being the reaction product of barium carbonate and cerium dioxide within the range of one molecular part of barium carbonate and one molecular part of cerium dioxide to five molecular parts of barium carbonate, and three molecular parts of cerium dioxide; and a reducing metal of the group consisting of tantalum, tungsten, molybdenum, columbium, titanium, aluminum, misch metal and beryllium mixed with said material to provide a mixture in



which said reducing metal is in intimate contact with said barium cerate, said material being free from appreciable vaporization at said temperatures, said reducing metal causing evolution of said barium from said material at a temperature higher than said relatively high temperatures, whereby said getter is free from deterioration prior to said evolution of the barium.

2,661,337

CATION EXCHANGE MATERIAL HAVING HIGH MECHANICAL STRENGTH

Morris L. Nielsen, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 28, 1950, Serial No. 181,915

4 Claims. (Cl. 252—313)

1. A process for preparing a cation exchange material which comprises impregnating cellulose with an aqueous solution of a water-soluble reaction product of one mole of phosphorus oxychloride with at least 5 moles of anhydrous ammonia reacted at a temperature of at least 110° C., but not above 150° C., said reaction product having a pH of from 7.0 to 8.5, a molecular weight of from 180 to 300 and a nitrogen to phosphorus ratio of from 2.1 to 2.5 thereafter reacting the said cellulose impregnated with the said reaction product at a temperature of from 100° C. to 200° C., and thereafter treating the said cellulose with a strong acid.

2,661,338

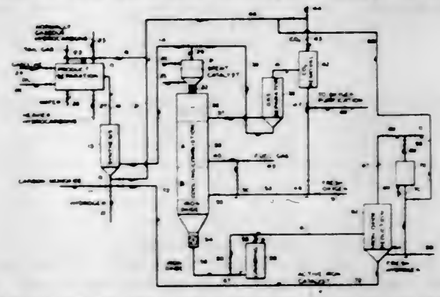
REGENERATION OF A FISCHER-TROPSCH REDUCED IRON CATALYST

William C. Lanning, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 13, 1948, Serial No. 64,958

3 Claims. (Cl. 252—417)

2. The method of removing carbonaceous matter deposited on the surface of a fluidizable iron catalyst which has become spent in the synthesis of hydrocarbons from carbon monoxide and hydrogen, which method comprises contacting said catalyst, in a regeneration zone, in countercurrent flow relation under free settling conditions, with upwardly flowing oxygen in sufficient amount and at a temperature sufficiently high to support combustion of said carbonaceous matter and to oxidize the iron substantially completely, whereby magnetic iron oxide is concomitantly formed and whereby said oxide is fused to form unagglomerated liquid droplets, passing molten iron oxide thus formed downwardly in said zone in countercurrent flow and heat exchange relation with oxygen at a temperature lower than the solidification temperature of said oxide to cool same and form solid magnetic iron



oxide particles free of said carbonaceous matter, said regeneration zone being of sufficient length to permit combustion of carbonaceous matter, oxidation of iron, and solidification as aforesaid, and recovering said solid magnetic iron oxide particles.

2,661,339

BLENDS OF RESINOUS STYRENE-CONJUGATED DIENE COPOLYMERS AND RUBBERY MATERIALS

William J. Sparks, Anthony H. Gleason, and Per K. Frolich, Westfield, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Delaware

No Drawing. Application March 2, 1946, Serial No. 651,608

11 Claims. (Cl. 260—5)

11. A composition of matter comprising a homogeneous mixture of 95–5 parts of a soft vulcanizable predominantly hydrocarbon rubber-like linear polymer selected from the group consisting of natural rubber and rubbery emulsion copolymers of butadiene and styrene, in homogeneous admixture with 5–95 parts of a hard, non-brittle, tough, thermoplastic resin compatible therewith, obtained by copolymerizing a mixture of 65–95 weight per cent of a vinyl aromatic hydrocarbon selected from the group consisting of styrene, paramethylstyrene, alphamethylstyrene, and paramethylalphamethylstyrene, and 35–5 weight per cent of a conjugated diolefin of 4 to 6 carbon atoms per molecule, in aqueous emulsion at a temperature between 35 and 75° C., in the presence of a modifier consisting of carbon bisulfide, the composition of matter being hard, tough, homogeneous, nonbrittle, flexible, relatively inelastic, thermoplastic and readily extrudable.

2,661,340

MANUFACTURE OF CYCLIZED RUBBER

Gerardus Johannes van Veersen, The Hague, Netherlands, assignor to Rubber-Stichting, Delft, Netherlands

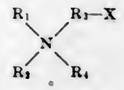
No Drawing. Application September 8, 1950, Serial No. 183,904

Claims priority, application Netherlands December 31, 1947

6 Claims. (Cl. 260—29.7)

1. In the manufacture of cyclized rubber, the process which comprises adding to an aqueous latex of an unsaturated rubber capable of being cyclized and selected from the class consisting of natural rubber and the synthetic rubbery homo-

polymers and copolymers of conjugated diolefin hydrocarbons, a small amount of a cationic surface-active agent capable of stabilizing the latex in the presence of concentrated sulfuric acid and having a formula selected from the group consisting of



and



wherein R_1 is a member of the group consisting of the alkyl, alkylol, aralkyl and aryl-alkylol radicals containing more than 12 carbon atoms; R_2, R_3 and R_4 are members of the group consisting of hydrogen and the lower alkyl, aralkyl, aryl and heterocyclic radicals, while X is a member of the group consisting of the anions of water-soluble acids; adding sufficient strong sulfuric acid to produce an acid concentration within the range of from about 60 to 90 per cent by weight and heating the mixture at reaction temperatures below about 140° C. for a period of from about 30 minutes to 10 hours to cyclize the rubber, whereby a dispersion of finely-divided cyclized rubber is obtained.

2,661,341

FIRE-RESISTANT RESINOUS PRODUCT AND PROCESS FOR PRODUCING SAME

Howard K. Nason and Morris L. Nielsen, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 21, 1950, Serial No. 169,508

6 Claims. (Cl. 260—38)

1. A composition which resists afterglow comprising in combination a phenol-aldehyde resin and a water-soluble reaction product of one mole of phosphorus oxychloride with at least five moles of anhydrous ammonia, at a temperature of at least 110° C. but below 150° C., said reaction product having a pH of from 7.0 to 8.5, a molecular weight of from 180 to 300, and a nitrogen to phosphorus ratio of from 2.1 to 2.3 and said reaction product being present to the extent of from 3% to 90% by weight of said composition.

2,661,342

PHOSPHOROUS OXYCHLORIDE-ANHYDROUS AMMONIA REACTION PRODUCTS AND WATER-SOLUBLE RESIN COMPOSITIONS FOR RENDERING CELLULOSIC MATERIALS FIRE RESISTANT

John E. Malowan, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 21, 1950, Serial No. 169,514

5 Claims. (Cl. 260—39)

4. A composition of matter for the flameproofing of cellulosic textiles comprising a water-soluble resin selected from the group consisting of urea-formaldehyde, melamine-formaldehyde, urea-furfural, and melamine-furfural, and containing a nitrogen- and phosphorus-containing product obtained by reacting one mole of phosphorus oxychloride with at least five moles of anhydrous ammonia in an inert solvent, which dissolves but does not react with the said reactants, at a temperature below 100° C., to produce an initially-formed, anhydrous-ammonia-soluble product mixed with ammonium chloride, then heating said initially-formed nitrogen- and phosphorus-containing product to a temperature of at least 110° C., but below 150° C., until said nitrogen- and phosphorus-containing product is rendered substantially insoluble in liquid anhydrous ammonia and has a molecular weight within the limits of from 180 to 300, a nitrogen/phosphorus atomic ratio within the limits of from 2.1 to 2.3 and when dissolved as a saturated solution in water yields a solution having a pH within the limits of 7.0 to 8.5, said treated cellulosic material containing 0.5% to 25% by weight of the said resin and 2% to 90% by weight of the said nitrogen- and phosphorus-containing product.

5. A new article of manufacture comprising a cellulosic textile having its fibers coated with a melamine-formaldehyde resin and a nitrogen- and phosphorus-containing product obtained by reacting one mole of phosphorus oxychloride with at least five moles of ammonia in an inert solvent which dissolves but does not react with the said reactants, at a temperature below 100° C., to produce an initially-formed, anhydrous-ammonia-soluble product mixed with ammonium chloride, then heating said initially-formed nitrogen- and phosphorus-containing product to a temperature of at least 110° C., but below 150° C., until said nitrogen- and phosphorus-containing product is rendered substantially insoluble in liquid anhydrous ammonia and has a molecular weight within the limits of from 180 to 300, a nitrogen/phosphorus atomic ratio within the limits of from 2.1 to 2.3 and when dissolved as a saturated solution in water yields a solution having a pH within the limits of 7.0 to 8.5, said treated cellulosic material containing 0.5% to 25% by weight of the said resin and 2% to 90% by weight of the said nitrogen- and phosphorus-containing product.

2,661,343

STABILIZED ACRYLONITRILE POLYMERS

Robert J. Slocombe, Dayton, and George L. Wesp, Englewood, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 26, 1950, Serial No. 192,342

10 Claims. (Cl. 260—45.7)

9. A heat stable acrylonitrile polymer comprising a polymer of 20 to 100 per cent by weight of acrylonitrile and up to 80 per cent of another olefinic monomer copolymerizable therewith, said polymer containing intimately dispersed therein from 0.01 to ten per cent by weight of an inorganic acid salt of aluminum selected from the group consisting of aluminum chloride, aluminum sulfate, aluminum nitrate and aluminum borate.

2,661,344

STABILIZED ACRYLONITRILE POLYMERS

Robert J. Slocombe, Dayton, and George L. Wesp, Englewood, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 26, 1950, Serial No. 192,343

10 Claims. (Cl. 260—45.7)

9. A heat stable acrylonitrile polymer comprising a polymer of 20 to 100 per cent by weight of acrylonitrile and up to 80 per cent of another olefinic monomer copolymerizable therewith, said polymer containing intimately dispersed therein from 0.01 to ten per cent by weight of a calcium compound of the group consisting of calcium chloride, calcium nitrate, calcium oxide and calcium hydroxide.

2,661,345

STABILIZED ACRYLONITRILE POLYMERS

Robert J. Slocombe, Dayton, and George L. Wesp, Englewood, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 26, 1950, Serial No. 192,344

12 Claims. (Cl. 260—45.7)

1. A stable polyacrylonitrile polymer comprising a polymer of 20 per cent to 100 per cent of acrylonitrile and from up to 80 per cent of another olefinic monomer copolymerizable therewith, said polymer containing intimately dispersed therein as the sole stabilizing agent from 0.01 to ten per cent of a compound of the group consisting of strontium chloride, strontium nitrate, strontium maleate, strontium acetylacetonate, and strontium sulfate.

2,661,346

STABILIZED ACRYLONITRILE POLYMERS

George L. Wesp, Englewood, and Robert J. Slocombe, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 26, 1950, Serial No. 192,348

2 Claims. (Cl. 260—45.75)

1. A heat stable acrylonitrile polymer comprising a polymer of 20 to 100 per cent by weight of acrylonitrile and up to 80 per cent of another olefinic monomer copolymerizable therewith, said polymer containing intimately dispersed therein from 0.01 to 10 per cent by weight of manganese chloride.

2,661,347

STABILIZED ACRYLONITRILE POLYMERS

George L. Wesp, Englewood, and Robert J. Slocombe, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 26, 1950, Serial No. 192,346

6 Claims. (Cl. 260—45.85)

1. A stable polyacrylonitrile polymer comprising a polymer of 20 per cent to 100 per cent of acrylonitrile and from up to 80 per cent of another monoolefinic monomer copolymerizable therewith, said polymer containing intimately dispersed therein as the sole stabilizing agent from 0.01 to ten per cent of a compound of the group consisting of maleic acid and maleic anhydride.

2,661,348

PROCESS FOR PREPARING POLYSILOXANE RESINS

Charles E. Welsh and Norman G. Holdstock, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application February 8, 1951, Serial No. 210,094

7 Claims. (Cl. 260—46.5)

1. The process of preparing a polysiloxane resin from a mixture of hydrolyzable organochlorosilanes containing an average of from 1.2 to 1.8 hydrocarbon groups per silicon atom and comprising a dihydrocarbon dichlorosilane and a monohydrocarbon trichlorosilane in which there is at most 60 mol per cent methyltrichlorosilane based on the entire organochlorosilane content, which process comprises hydrolyzing the aforesaid mixture of chlorosilanes in an aqueous medium consisting of (*a*) water in excess of that required for complete hydrolysis of the silicon-bonded chlorines of the aforesaid organochlorosilane mixture, and (*b*) a non-aqueous phase having a specific gravity of at least 1.1 and consisting essentially of a liquid, water-non-reactive halogenated hydrocarbon having a specific gravity of at least 1.1 and a boiling point below 175° C. and being present, by weight, in amount equal to from 0.5 to 2 parts of the halogenated hydrocarbon per part of the organochlorosilane mixture.

2,661,349

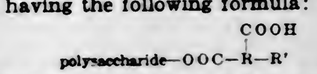
POLYSACCHARIDE DERIVATIVES OF SUBSTITUTED DICARBOXYLIC ACIDS

Carlyle G. Caldwell, Forest Hills, and Otto B. Wurzburg, Babylon, N. Y., assignors to National Starch Products Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application February 18, 1949, Serial No. 77,296

3 Claims. (Cl. 260—224)

1. A substituted polysaccharide derivative in the form of a water-dispersible material, characterized by each substituent radical containing both a hydrophilic group and a hydrophobic group, having the following formula:



wherein R is a radical from the class of dimethylene and trimethylene radicals and R′ is the substituent hydrophobic group from the class consisting of an alkyl, alkenyl, aralkyl and aralkenyl group containing from 5 to 18 carbon atoms, and wherein the carboxyl radical COOH is the hydrophilic group.

2,661,350

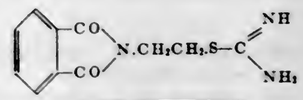
ISOTHIURONIUM SALT OF PENICILLIN

Rudolf Hiltmann and Klaus Bauer, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 22, 1952, Serial No. 316,310

2 Claims. (Cl. 260—239.1)

1. As a novel chemotherapeutic agent, an organic nitrogenous base salt of penicillin, said organic nitrogenous base being represented by the formula:



2,661,351

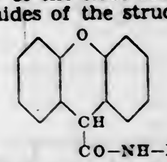
N-ALKYL - 9 - XANTHENE-CARBOXAMIDES, BASICALLY SUBSTITUTED DERIVATIVES AND SALTS THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application July 24, 1951, Serial No. 238,400

9 Claims. (Cl. 260—247.2)

1. A member of the class consisting of 9-xanthenecarboxamides of the structural formula



and salts thereof, wherein X is a member of the class consisting of, lower dialkylaminoalkyl, lower morpholinoalkyl, and lower piperidinoalkyl radicals.

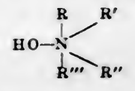
2,661,352

7-SUBSTITUTED DIALKYL XANTHINES AND PROCESS OF PREPARING SAME

Wolffe Harry Feinstone, Indianapolis, Ind., and Bernard F. Duesel, Yonkers, N. Y., assignors to Nepera Chemical Co. Inc., Yonkers, N. Y., a corporation of New York

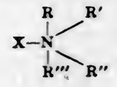
No Drawing. Application April 2, 1952, Serial No. 280,166
11 Claims. (Cl. 260—254)

1. The process of producing new therapeutic agents comprising the steps of reacting a quaternary ammonium hydroxide of the formula



in which R is selected from the group consisting of long-chain alkyl radicals containing up to fifteen carbon atoms, hydroxy lower alkyl radicals and benzyl radicals, and R', R'' and R''' are alkyl radicals containing one to three carbon atoms, with an 8-substituted dialkylxanthine in which the alkyl group contains from one to two carbon atoms and in which the 8-substituent is selected from the group consisting of chloro, bromo and nitro, isolating the condensation product and purifying it by recrystallization.

7. Compounds having the general formula



in which R is selected from the group consisting of long-chain alkyl radicals containing up to fifteen carbon atoms, hydroxy lower alkyl radicals and benzyl radicals, and R', R'' and R''' are alkyl radicals containing one to three carbon atoms and X is an 8-substituted dialkylxanthine in which the alkyl group contains from one to two carbon atoms and in which the 8-substituent is selected from the group consisting of chloro, bromo and nitro.

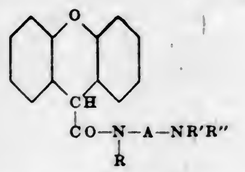
2,661,353

N,N-DISUBSTITUTED 9-XANTHENECARBOXAMIDES

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application August 2, 1951, Serial No. 240,860
11 Claims. (Cl. 260—335)

8. The xanthene-9-carboxamides of the structural formula



wherein R is a lower monocyclic hydrocarbon radical of no more than 10 carbon atoms and containing 5 to 6 carbon atoms in the monocycle, A is a lower alkylene radical containing at least 2 carbon atoms and NR'R'' is an amino radical of the class consisting of lower dialkylamino, piperidino and morpholino radicals.

2,661,354

PREPARATION OF BENZOINS AND FUROINS

Claude J. Schmidle, Moorestown, N. J., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application August 22, 1951, Serial No. 243,159
3 Claims. (Cl. 260—347.8)

1. A process for preparing benzoins which comprises condensing at least one aldehyde from the class consisting of benzaldehyde and furfuraldehyde by heating it between 50° and 100° C. in the presence of a strongly basic anion exchange resin in the form of its cyanide salt and in the presence of a saturated lower aliphatic monohydric alcohol as solvent.

2,661,355

CARBOMETHOXYBENZAZIDE AND PREPARATION

Mack F. Fuller, Woodbury, N. J., and Paul Van Fossen, Chicago, Ill., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 21, 1952, Serial No. 316,092
2 Claims. (Cl. 260—349)

1. A new chemical compound, p-carbomethoxy benzazide.

2,661,356

SEPARATION OF BILE ACIDS

Robert H. Sifferd, Joliet, Ill., assignor, by mesne assignments, to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application June 13, 1951, Serial No. 231,439
8 Claims. (Cl. 260—397.1)

1. In a process for separating desoxycholic acid from an aqueous alkaline solution of cholic and desoxycholic acids in which a non-polar volatile organic substance is added to form a coordination compound with the desoxycholic acid in the solution, the steps of acidifying the mixture until crystallization of the desoxycholic coordination compound begins, maintaining the pH against further substantial drop until the bulk of the desoxycholic acid crystallizes, and separating the crystallized desoxycholic acid.

2,661,357

PRODUCTION OF 16-KETO-17-HYDROXY STEROIDS

Max N. Huffman, Oklahoma City, Okla., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application September 9, 1950, Serial No. 184,128
2 Claims. (Cl. 260—397.4)

1. The method of manufacturing the 3-ethers of 16-keto-(α)-estradiol comprising reducing the corresponding 16,17-diketo-steroid by reaction in the presence of a titanous salt and an organic acid.

2,661,358

STABILIZATION OF GLYCERIDE OILS

Arthur W. Schwab, Cyril D. Evans, and Patricia M. Cooney, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application October 5, 1951, Serial No. 250,011
7 Claims. (Cl. 260—398.5)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A new composition of matter, a glyceride oil and a stabilizing amount of one of the group consisting of chelidonic acid and chelidamic acid.

2,661,359

METHOD OF PREPARING ADDUCTS

Joachim Dazzi, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application February 15, 1950, Serial No. 144,393
3 Claims. (Cl. 260—404.8)

1. The process of preparing adducts which comprises heating, at temperatures of from 150° C. to 300° C., a mixture comprising maleic anhydride, oleic acid and an aryl ester of an acid selected from the class consisting of phosphorous acid and hypophosphorous acid, the quantity of said aryl ester being from 0.5 per cent to 5.0 per cent by weight of the weight of the maleic anhydride.

2,661,360

METHOD OF MAKING MERCURIC ACETATE

Frank P. Greenspan, Buffalo, N. Y., assignor to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y.

No Drawing. Application January 30, 1952, Serial No. 269,123
6 Claims. (Cl. 260—431)

1. The method of making mercuric acetate which comprises reacting metallic mercury with peracetic acid.

2,661,361

MANUFACTURE OF TETRAETHYLLEAD

William B. Grandjean, Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

Application August 22, 1951, Serial No. 243,121
2 Claims. (Cl. 260—437)

1. The continuous process for manufacture and recovery of tetraethyllead comprising feeding a sodium-lead alloy and an ethyl chloride recycle stream, hereafter defined, to an ethylation zone, the recycle stream containing at least seven times the ethyl chloride required for the ethylation reaction, ethylating in the ethylation zone under agitation conditions providing a slurry of solids and liquid containing tetraethyllead uniformly dissolved therein, withdrawing the so formed slurry from the ethylation zone to a settling zone, settling the solids therein and forming a substantially solid free liquid layer, withdrawing the liquid in amount corresponding to the tetraethyllead formed in the ethylation zone, and recovering the tetraethyllead therefrom, passing the solids containing portion to a series of countercurrent stages each having a mixing zone and a settling zone, feeding fresh ethyl chloride to the last mixing zone and withdrawing a solid containing stream substantially free of tetraethyllead from the last settling zone, the liquid from the first settling zone being the recycle stream to the ethylation zone.

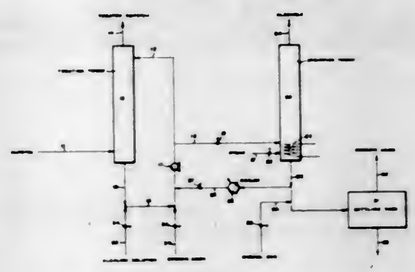
2,661,362

REMOVAL OF OXYGENATED ORGANIC COMPOUNDS FROM HYDROCARBONS

Edward F. Wadley, Baytown, and Joseph T. Horeczy, Cedar Bayou, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application November 26, 1947, Serial No. 788,231
3 Claims. (Cl. 260—450)

1. A method for treating a naphtha fraction contaminated with oxygenated organic compounds consisting of carboxylic acids, alcohols, ketones, and aldehydes, which comprises subjecting said naphtha fraction to contact at a temperature in the range between 60° and 120° F. with an aqueous solution of alkali metal hydroxide to cause substantial remvoal of carboxylic acids and alcohols therefrom, separating said alkali metal hydroxide solution containing carboxylic acids and alcohols from said naphtha, dividing



the separated solution into first and second portions, contacting additional quantities of said feed naphtha with said first portion to cause substantial removal of carboxylic acids and alcohols from said additional quantities of feed naphtha, and recovering from said second portion alcohols and carboxylic acids.

2,661,363

PERESTERS OF PEROXYCARBOXYLIC ACIDS

Frank H. Dickey, Berkeley, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application January 18, 1952, Serial No. 267,204
13 Claims. (Cl. 260—453)

1. An aromatic substituted-alkyl of a non-aromatic peroxycarboxylic acid of the group consisting of peroxyalkanoic acids and peroxyalkenoic acids containing at least two carbon atoms and their halo-substituted derivatives, the peroxycycloalkanoic acids and peroxycycloalkenoic acids containing at least 6 carbon atoms and their halo-substituted derivatives, diperoxyalkanedioic acids and the diperoxyalkenedioic acids containing at least four carbon atoms and their halo-substituted derivatives, the diperoxycycloalkanedioic acids and the diperoxycycloalkenedioic acids containing at least 7 carbon atoms and their halo-substituted derivatives, and the triperoxyalkanetrioic acids and the triperoxyalkenetrioic acids containing at least five carbon atoms and their halo-substituted derivatives.

2,661,364

PREPARATION OF ORGANIC PHOSPHORUS COMPOUNDS, AND IN PARTICULAR, OF DIALKYL PHOSPHITES

Maurice Leon Ernsberger and Julian Werner Hill, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 14, 1950, Serial No. 138,709
6 Claims. (Cl. 260—461)

6. A process for the preparation of organic compounds of phosphorus wherein white phosphorus and oxygen are reacted at a temperature within the range 25–150° C. with an organic compound free from aliphatic carbon-carbon unsaturation and hydrocarbon except for at least one alcoholic hydroxyl group.

2,661,365

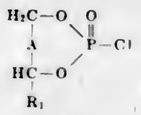
ALKANEDIOL PHOSPHORYL MONOCHLORIDES

Harry R. Gamrath and Roger E. Hatton, St. Louis, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 11, 1950, Serial No. 149,221

20 Claims. (Cl. 260—461)

1. As new chemical compounds, alkanediol phosphoryl monochlorides having the formula



wherein A represents a divalent aliphatic organic radical having the general formula

$$C_nH_{2n}$$

wherein n represents a whole number from 1 to 7 inclusive and R_1 represents an alkyl radical containing from 1 to 6 carbon atoms.

2,661,366

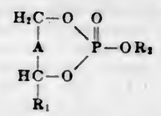
ALKANEDIOL MONO-ARYL ORTHO-PHOSPHATES

Harry R. Gamrath and Roger E. Hatton, St. Louis, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 11, 1950, Serial No. 149,222

20 Claims. (Cl. 260—461)

1. As new chemical compounds, alkanediol mono-aryl ortho-phosphates having the formula



wherein A represents a divalent aliphatic organic radical having the general formula

$$C_nH_{2n}$$

wherein n represents a whole number from 1 to 7 inclusive, R_1 represents an alkyl radical containing from 1 to 6 carbon atoms and R_2 represents an aryl radical.

2,661,367

2-(2-ETHYLHEXYLOXY)ETHYL N-BUTYL PHTHALATE AND PROCESS OF PREPARING SAME

Joachim Danzi, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 25, 1951, Serial No. 243,754

2 Claims. (Cl. 260—475)

1. 2-(2-ethylhexyloxy)ethyl n-butyl phthalate.

2. The method which comprises contacting 2-(2-ethylhexyloxy)ethanol with n-butyl phthalyl monochloride and recovering 2-(2-ethylhexyloxy)ethyl n-butyl phthalate from the resulting reaction mixture.

2,661,368

PREPARATION OF DISUBSTITUTED PROPARGYL ACETOACETATES AND DECARBOXYLATION OF SAME

Walter Kimel, Highland Park, N. J., and Norbert William Sax, Brooklyn, N. Y., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application May 15, 1952, Serial No. 288,054

12 Claims. (Cl. 260—483)

1. A method which comprises condensing diketene with a disubstituted propargyl alcohol wherein each substituent is a hydrocarbon radical selected from the group consisting of lower alkyl and lower alkenyl radicals and is attached to the 1-carbon atom of the propargyl radical and eliminating carbon dioxide from the condensation product.

2,661,369

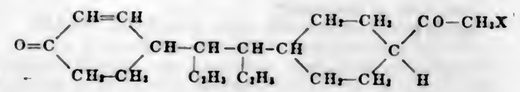
DICYCLOHEXYL ETHANE COMPOUNDS AND A METHOD OF MAKING SAME

Erich M. H. Radde, New York, N. Y.

No Drawing. Application October 31, 1950, Serial No. 193,275

3 Claims. (Cl. 260—488)

3. α(p-Cyclohexenonyl)-β-(p-hydroxy aceto cyclohexanyl)-diethyl ethane compounds of the following formula:



wherein X represents a member selected from the group consisting of a hydroxyl group and an acyloxy group.

2,661,370

HEXAMETHYLENE-1:6-BIS-TRIMETHYLAMMONIUM BITARTRATE

Harry James Barber, Dagenham, England, assignor to May & Baker Limited, Dagenham, England, a British company

No Drawing. Application October 18, 1951, Serial No. 252,004

Claims priority, application Great Britain October 27, 1950

5 Claims. (Cl. 260—501)

1. A process for the preparation of hexamethylene-1:6-bis-trimethylammonium bitartrate which comprises reacting hexamethylene diamine with a methylating and quaternating agent in aqueous medium to form an acid-free crude reaction mixture, adding to that reaction mixture a water-soluble salt of 2:2-dihydroxy-1:1-dinaphthylmethane-3:3-dicarboxylic acid thereby to precipitate hexamethylene-1:6-bis-trimethylammonium salt of 2:2-dihydroxy-1:1-dinaphthylmethane-3:3-dicarboxylic acid, isolating the precipitate and converting the same into the corresponding bitartrate by reaction with a member of the class consisting of tartaric acid and acid salts thereof, removing precipitated 2:2-dihydroxy-1:1-dinaphthylmethane-3:3-dicarboxylic acid, and recovering the hexamethylene-1:6-bis-trimethylammonium bitartrate thus formed.

2,661,371

PURIFICATION OF TYROSINE

Basil B. Dowling, Skokie, Ill., assignor to International Minerals & Chemical Corporation, a corporation of New York

No Drawing. Application June 3, 1952, Serial No. 291,576

4 Claims. (Cl. 260—519)

1. A process for the recovery of tyrosine from tyrosine-leucine-cystine containing mixtures which comprises admixing a tyrosine-leucine-cystine mixture with sufficient liquid selected from the group consisting of water and mother liquor from a subsequent tyrosine crystallization step at a temperature between about 60° C. and about 100° C. to substantially completely dissolve the tyrosine from said mixture, contacting the hot solution with activated carbon for at least about thirty minutes, separating solid material from the hot solution, cooling the resulting solution to about atmospheric temperature, and crystallizing and recovering tyrosine therefrom.

2,661,372

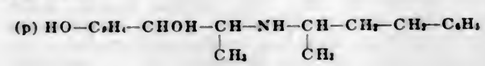
PHARMACOLOGICALLY VALUABLE STEREOISOMERS OF CERTAIN AMINO ALCOHOLS AND THEIR SALTS

Clemens Schöpf and Karl Jakob Kunz, Darmstadt, Germany, assignors to Troponwerke Dinklage & Co., Köln-Mulheim, Germany, a German corporation

No Drawing. Application April 7, 1949, Serial No. 86,122

9 Claims. (Cl. 260—570.6)

1. An aralkylamino propane product being essentially a member of the group consisting of the acid addition salts and free base of the stereo isomeric racemate for which the melting point of its free base is substantially 111–112° C. and which is represented by the general formula for said base



2,661,373

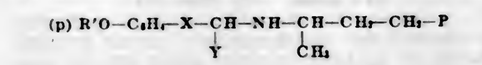
CERTAIN AMINO ALCOHOLS AND KETONES

Fritz Kühr, deceased, late of Frankfurt am Main, Germany, by Ida Kühr and Annemarie Kühr, Frankfurt am Main, Walburga Kühr, Essen, Stoppenberg, and Friedrich Lehmann, Frankfurt am Main, Germany, administrators of the estate of Fritz Kühr, and Clemens Schöpf, Darmstadt, Germany

No Drawing. Application March 2, 1953, Serial No. 339,924

15 Claims. (Cl. 260—570.6)

1. An aralkylamino alkane product of the group consisting of the acid addition salts and free base represented by the general formula for the base



in which X is a member of the group of radicals consisting of —CO— and —CHOH—, in which R' is a member of the group consisting of hydrogen and a phenyl methyl radical, in which P is a member of the group consisting of phenyl and a methyl phenyl radical, and in which Y is an alkyl radical of from 1–2 C atoms.

2,661,374

SYNTHESIS OF 4-HYDROXY-2-CYCLOPENTEN-1-ONES

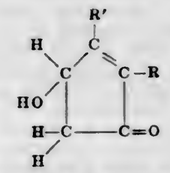
Milton S. Schechter, Washington, D. C., and Frederick B. La Forge, North Arlington, Va., dedicated to the free use of the People of the United States

No Drawing. Application February 8, 1949, Serial No. 75,282

19 Claims. (Cl. 260—586)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A method of preparing a cyclopentenolone of the formula:



comprising treating a hydroxydiketone of the formula:

$$R'—CO—CHOH—CH_2—CO—CH_2—R$$

with an alkaline cyclizing agent, R' being taken from the group consisting of alkyl, alkenyl and aryl radicals, R being taken from the group consisting of alkyl, alkenyl, substituted alkenyl, aryl, aralkyl, cycloalkyl and cycloalkenyl radicals.

16. A 4-hydroxy cyclopentenone of the group consisting of 2-allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one; 4-hydroxy-3-methyl-(2-methylallyl)-2-cyclopenten-1-one; synthetic racemic 2-(2-butenyl)-4-hydroxy-3-methyl-2-cyclopenten-1-one, the semicarbazone of which has a melting point with decomposition at about 222–223° C.; 2-(3-butenyl)-4-hydroxy-3-methyl-2-cyclopenten-1-one; 4-hydroxy-3-methyl-2-(3-methyl-2-butenyl)-2-cyclopenten-1-one; and 2-allyl-4-hydroxy-3-phenyl-2-cyclopenten-1-one.

2,661,375

PRODUCTION OF PHENOLS AND ACYCLIC ALDEHYDES

Joshua C. Conner, Jr., Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 7, 1950, Serial No. 142,943

15 Claims. (Cl. 260—601)

2. The process of producing a phenol and an aliphatic aldehyde which comprises contacting an α-alkylarylmethyl hydroperoxide at a temperature between about 15° C. and about 100° C. with an aqueous water-soluble acid solution containing at least 20% by weight of said acid.

2,661,376

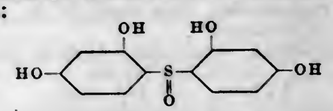
DIRESORCYL SULFOXIDE AND PROCESS OF PREPARING THE SAME

Ann Pfahler Comer, Easton, Pa., and Ralph G. D. Moore, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 4, 1951, Serial No. 240,432

2 Claims. (Cl. 260—607)

1. Diresorcyl sulfoxide having the following formula:



2,661,377
PROCESS FOR HALOGEN EXCHANGE
Thomas G. McKenna, Samuel Barney Soloway, Rex E. Lidov, and Julius Hyman, Denver, Colo., assignors, by mesne assignments, to Shell Development Company, Emeryville, Calif., a corporation of Delaware
No Drawing. Application August 21, 1948, Serial No. 45,576
7 Claims. (Cl. 260—648)

1. The process for converting 1 - bromo-4,5,6,7,8,8 - hexachloro - 3a,4,7,7a - tetrahydro-4,7 - methanoindene to 1,4,5,6,7,8,8 - heptachloro - 3a,4,7,7a - tetrahydro-4,7-methanoindene which comprises subjecting said 1-bromo compound to halogen exchange in a solution which contains a chlorine source selected from the group consisting of iodine monochloride, iodine trichloride, aryliodidedichloride and a bromine-chlorine mixture containing, on a mole basis, an excess of bromine, and a catalyst selected from the group consisting of iodine monochloride, iodine trichloride and aryliodidedichloride dissolved in a solvent selected from the group consisting of polyhaloparaffins, aromatic hydrocarbons, paraffinic hydrocarbons, liquid aromatic halides and liquid nitrohydrocarbons, at temperatures between about 10° and 100° C. for time periods of from about 1 hour to 100 hours in order to effect substantially complete conversion of said 1-bromo compound to said heptachloro product and isolating the said heptachloro product from solution.

2,661,378
PROCESS FOR HALOGEN EXCHANGE
Thomas G. McKenna, Samuel Barney Soloway, Rex E. Lidov, and Julius Hyman, Denver, Colo., assignors, by mesne assignments, to Shell Development Company, Emeryville, Calif., a corporation of Delaware
No Drawing. Original application August 21, 1948, Serial No. 45,576. Divided and this application February 10, 1951, Serial No. 210,424
5 Claims. (Cl. 260—648)

1. The process of converting the mono-bromo derivative resulting from the substitution of a bromine atom for a hydrogen atom of the Diels-Alder adduct obtained by the reaction of one mole of hexachlorocyclopentadiene with one mole of cyclopentadiene to the corresponding chloro derivative, which comprises subjecting the brominated adduct to halogen exchange in a conversion solution chosen from the group consisting of (1) solutions consisting essentially of metal halide Friedel-Crafts catalysts and hydrogen chloride in liquid nitrohydrocarbons, and (2) solutions consisting essentially of metal halide Friedel-Crafts catalysts, hydrogen chloride, nitrogen dioxide and nitrogen tetroxide in liquid nitrohydrocarbons, at temperatures between about 10° C. and 50° C. for time periods of from about 1 hour to 100 hours in order to effect substantially complete conversion of the brominated adduct to the corresponding chlorinated adduct, and isolating the desired chlorinated adduct from the solution.

2,661,379
1,4-DIBROMO-2,2,3,3-TETRACHLOROBUTANE
George Calingaert, Geneva, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 30, 1951, Serial No. 223,814
1 Claim. (Cl. 260—652)

1,4-dibromo-2,2,3,3-tetrachlorobutane.

2,661,380
OXIDATIVE DEHYDROGENATION OF CYCLIC HYDROCARBONS
Bernard Orkin, Philadelphia, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application February 20, 1951, Serial No. 211,975
16 Claims. (Cl. 260—666)

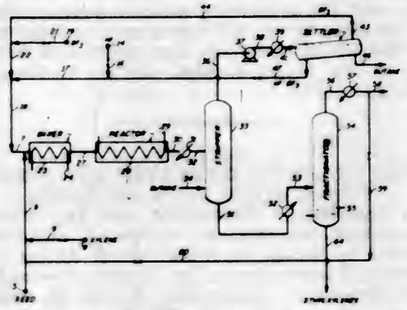
1. A method of oxidative dehydrogenation of carbocyclic hydrocarbons which comprises mixing a first carbocyclic hydrocarbon in which the number of hydrogen atoms directly attached to nuclear carbon atoms is greater than the number of unsubstituted nuclear carbon atoms with a gas containing free oxygen, the amount of oxygen in the resultant mixture being at least about 100% in excess of the theoretical amount required to produce by oxidation a second carbocyclic hydrocarbon having fewer hydrogen atoms directly attached to nuclear carbon atoms than said first carbocyclic hydrocarbon, contacting said mixture with a catalyst selected from the group consisting of silica gel, tellurium oxide, and silica gel and chromia, at a temperature of about 550° to about 950° F., and separating a carbocyclic hydrocarbon in which the number of hydrogen atoms directly attached to nuclear carbon atoms is less than said first carbocyclic hydrocarbon.

2,661,381
DEHYDROGENATION OF A CYCLOOLEFINIC HYDROCARBON CONTAINING A GEMINAL CARBON ATOM
Herman Pines and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application April 28, 1950, Serial No. 158,911
12 Claims. (Cl. 260—668)

1. A process for producing an alkylaromatic hydrocarbon which comprises dehydrogenating a cyclohexene having a geminal carbon atom and also having at least one nuclear carbon atom combined with hydrocarbon group substituents and having at least one replaceable nuclear hydrogen atom in the presence of a dehydrogenation catalyst selected from the group consisting of platinum, and an oxide of an element in the left hand columns of groups IV, V, and VI of the periodic table and mixtures thereof and an acidic material selected from the group consisting of alkyl halides, hydrogen halides, and silica-3 alumina to produce an alkylaromatic hydrocarbon having one more substituted carbon atom than present in said cyclohexene and recovering said alkylaromatic hydrocarbon.

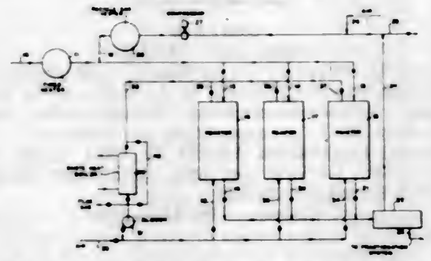
2,661,382
PREPARATION OF ETHYLXYLENES
Arthur P. Lien, Highland, Ind., and David A. McCaulay, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application July 25, 1951, Serial No. 238,498
14 Claims. (Cl. 260—671)

1. A process for the preparation of a mixture of ethylxylenes, which mixture consists predominantly of 1,3,5-ethylxylene, which process comprises forming a single phase liquid system by treating a feed mixture consisting essentially of a xylene and ethylbenzene, wherein the xylene/ethylbenzene ratio in said feed is greater than 1, with liquid HF in an amount of at least about 2 mols per mol of xylene in said feed, and with BF_3 in an amount between about 0.7 mols and less than 1 mol per mol of xylene in said feed, whereby a BF_3—HF-xylene complex and free-xylene both exist in said single phase liquid system; maintaining said single phase liquid system at a temperature of less than about 160° F. for a time sufficient to produce a hydrocarbon



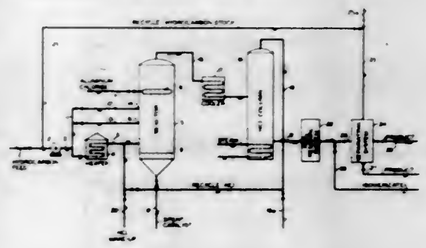
product containing an appreciable amount of ethylxylenes wherein 1,3,5-ethylxylene is the predominant isomer; removing HF and BF_3 from said hydrocarbon product and recovering said ethylxylene mixture from said hydrocarbon product.

2,661,383
PROCESS
La Vern H. Beckberger, East Chicago, Ind., and Rudolph C. Woerner, Houston, Tex., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application July 14, 1951, Serial No. 236,791
4 Claims. (Cl. 260—673.5)



1. In a process for producing benzene from a straight run C_6 cut petroleum hydrocarbon fraction in the presence of a molybdenum oxide reforming catalyst on alumina base containing a stabilizing proportion of silica and in the presence of a hydrogen containing gas stream under conditions of about 850° to 1000° F., atmospheric pressure to about 250 p. s. i. g., about 0.15 to 2.0 liquid hourly space velocity and a molar ratio of hydrogen to hydrocarbon feed of about 2/1 to 8/1, the step of adding oxygen to the hydrogen containing gas stream in a proportion of about 0.001 to 0.2% by volume of said gas stream.

2,661,384
ISOMERIZATION PROCESS
Harold J. Hepp, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 14, 1949, Serial No. 121,303
8 Claims. (Cl. 260—683.5)



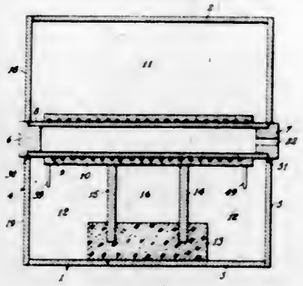
1. A process for the isomerization of a normally liquid hydrocarbon material, which comprises introducing a saturated hydrocarbon material containing at least 4 and not more than 10 carbon atoms per molecule into a lower portion of a vertical elongated reaction zone maintained at a temperature in the range of 125–325° F. and under a pressure in the range of 200 to 800 p. s. i. g., maintaining in the lower portion of said reaction zone a solid granular adsorptive material supporting an aluminum chloride-hydrocarbon complex catalyst, maintaining in the upper portion of said reaction zone a bed of solid granular adsorptive material, introducing into the upper portion of said reaction zone an aluminum chloride-hydrocarbon complex catalyst just below said bed of said adsorptive material contained in the upper portion of said reaction zone, passing said catalyst downwardly through said reaction zone in contact with and countercurrent to the flow of said hydrocarbon material whereby said hydrocarbon material progressively comes in contact with more active catalyst as it passes through said reaction zone to the point of entry of said catalyst, continuing the flow of the treated hydrocarbon material upwardly through said reaction zone and in contact with said adsorptive material contained in the upper portion thereof whereby a portion of the aluminum chloride dissolved in said hydrocarbon material is adsorbed by said adsorptive material, maintaining an upwardly decreasing temperature gradient in the lower portion of said reaction zone containing the catalyst bed by introducing a portion of said saturated hydrocarbon material into said reaction zone through at least two points at different elevations in said reaction zone, removing spent catalyst from a point near the bottom of said reaction zone and recovering a treated hydrocarbon material as a product of the process.

ELECTRICAL

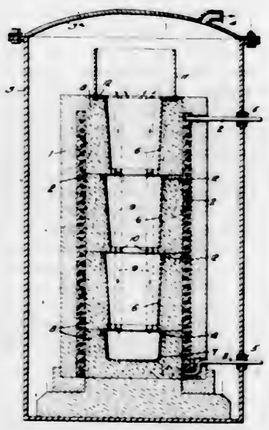
2,661,385
MUFFLE TYPE FURNACE
Arnold J. Lincoln, Florham Park, and George D. Courtright, Newark, N. J., assignors to Baker & Co., Inc., Newark, N. J., a corporation of New Jersey
Application January 10, 1952, Serial No. 265,744
1 Claim. (Cl. 13—20)

In a resistance type high temperature furnace, a housing shell including a front and a rear panel, each of said panels consisting of at least two slightly spaced apart sections the spacing occurring centrally of the panel, a central opening in each panel, said spacing intersecting and including said central opening, a hollow muffle member fitting at its ends within the openings in the panels and extending through said housing, a resistance winding of a metal selected from the group consisting of the platinum metals and alloys thereof wound around said muffle member

and having leads extending therefrom, a source of electrical power connected to said leads, a protective covering over said winding of a refractory oxide cement, at least one muffle supporting member located centrally of said muffle comprising a brick-like base member having a low coefficient of thermal conductivity resting on the bottom of said housing and a column-like member supported by said base member of a refractory material chemically inert to the material of the resistance winding, door members adapted to be inserted in and conforming to the openings in said panels to enclose the ends of said muffle member and provide a heating chamber, and a well compacted powdered refractory material completely filling the remainder of the space within said housing.



2,661,386
RETORT TYPE SECTIONAL HIGH-FREQUENCY FURNACE
Gösta Theodor Lundgren, Nynashamn, Sweden
Application October 9, 1950, Serial No. 189,110
5 Claims. (Cl. 13—26)

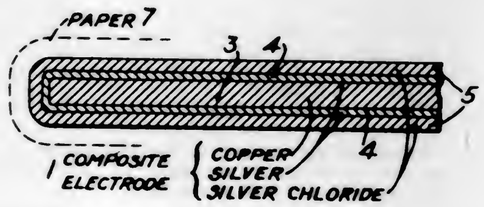


1. A high frequency electric furnace of the retort type for the treatment of charges for metallurgical and similar purposes, which comprises in combination a metal retort formed in a plurality of tubular sections which are spaced apart vertically one above the other, independently supported and insulated from each other, said retort sections having thin metal walls of low strength incapable, if unsupported, to withstand the stresses occurring in the furnace, a self-supporting non-conducting refractory wall closely surrounding said retort sections, holding them in spaced apart relationship and constituting their sole support, an induction coil surrounding said retort adapted when energized to heat the retort sections and thereby to heat the furnace, and cooperative means between the retort sections and the refractory wall to support the retort sections in spaced apart relationship and to provide for independent expansion and contraction of the retort sections during heating and cooling thereof.

2,661,387
POROUS ELECTRODE PLATES AND PROCESS FOR MAKING SUCH ARTICLES
Karl Ackermann, Mannheim, and Leo Schlecht, Ludwigshafen (Rhine), Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Germany
No Drawing. Application August 19, 1950, Serial No. 180,498
Claims priority, application Germany September 10, 1949
6 Claims. (Cl. 136—25)

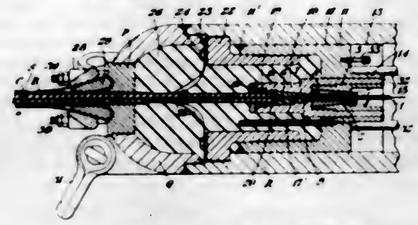
6. As a new article of manufacture, porous electro-plates for alkaline accumulators, the pores of said plates being oriented in the direction towards the plate surface, said orientation being effectuated by shaping a mass of magnetizable particles into the form of a plate, positioning the aforesaid plate-shaped mass in a magnetic field wherein the lines of magnetic flux pass transversely of said plate thereby to align the particles thereof and after said alignment sintering the same.

2,661,388
PRIMARY CELLS
Arthur J. Warner, Glen Ridge, and André R. Gobat, North Caldwell, N. J., assignors to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware
Original application August 29, 1951, Serial No. 244,136. Divided and this application May 6, 1952, Serial No. 286,334
17 Claims. (Cl. 136—100)



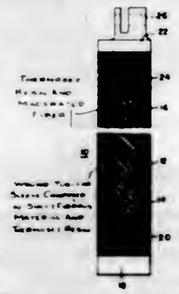
1. A primary cell comprising a composite cathode having a base of a conductive material other than silver and a microcrystalline layer of a silver halide on said base, the crystals comprising said silver halide layer being oriented for the most part substantially perpendicular to the surface of said base, an anode of magnesium, and a porous electrical insulating material separating the cathode and anode.

2,661,389
ELECTRIC CABLE
Richard William Presswell, Kensington, London, England, assignor to Telegraph Construction & Maintenance Company Limited, London, England, a company of Great Britain
Application March 14, 1949, Serial No. 81,325
Claims priority, application Great Britain March 22, 1948
5 Claims. (Cl. 174—50)



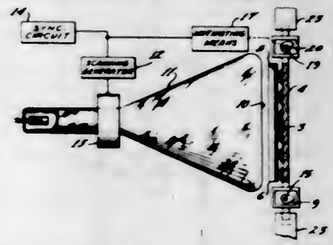
1. Means for sealing the entry of a cable conductor into a housing comprising an inner metallic sleeve having a tapered outer surface carried by a cable conductor and sealed thereto and extending axially through said housing, an outer metallic sleeve supported from said housing and sealed thereto and concentrically surrounding said inner metallic sleeve, said outer metallic sleeve having a tapered inner surface that is substantially complementary to the tapered outer surface of said inner metallic sleeve, an intermediate sleeve of insulation material having inner and outer tapered surfaces respectively engaging the tapered surfaces of said inner and outer sleeves and forming a seal therewith and an insulation compound surrounding said conductor and enclosed by said housing and disposed adjacent one end of said sleeves, the joints between said sleeves substantially precluding leakage of said compound around the cable conductor.

2,661,390
MOLDED INSULATOR
Maurice J. Gelpi, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1949, Serial No. 73,474
2 Claims. (Cl. 174—178)



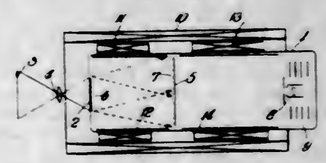
1. A molded cylindrical insulator comprising a tubular outer shell composed of a plurality of turns of sheet fibrous material impregnated and bonded with a thermoset resin, the shell comprising at least 50% of the thickness of material along a diameter, the tubular outer shell having a central opening, a metallic fitting extending from each end of the tubular shell, the metallic fittings each having a roughened stem extending within the central opening, and a core disposed within the central opening, the core comprising a thermoset macerated fiber and resin body bonded to the tubular outer shell and to the roughened stems, the core applying an internal pressure against the tubular outer shell to put the turns of the sheet fibrous material in tension whereby the turns of the tube are relatively unwrinkled, the tubular outer shell providing for high mechanical strength, resistance to moisture and good electrical insulating properties.

2,661,391
MECHANICAL COLOR FILTER DEVICE FOR USE IN SEQUENTIAL TELEVISION SYSTEMS
Alda V. Bedford, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 22, 1950, Serial No. 202,261
10 Claims. (Cl. 178—5.4)



1. A light filter for use in color television systems comprising in combination, a plurality of different selected component color strip-like elements of the same dimensions and arranged sequentially side by side in repeating groups, a flexible mask positioned in a plane adjacent to and parallel with the plane of said elements, said mask having alternate transparent and opaque sections, the transparent sections of which substantially correspond in size, shape and spacing with the size, shape and spacing of one of the said color elements, and means to irregularly stretch said mask to expose said elements with respect to the transparent sections of said mask in an oscillatory motion such that in one cycle of said oscillatory motion the plurality of adjacent elements of each selected component color is traversed in succession along the entire length of the filter by succeeding transparent sections along the entire length of the mask, and wherein the traverse by said transparent portions with respect to said elements near one end of said mask is of a different color than at the other end of said mask during substantially the entire cycle.

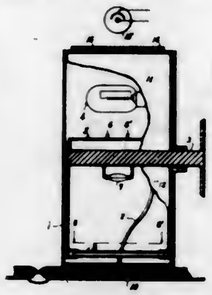
2,661,392
COLOR TELEVISION
Hans Gerhard Lubszynski, Northwood, and Reginald Sidney Webley, Hayes, England, assignors to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application December 13, 1947, Serial No. 791,542
12 Claims. (Cl. 178—5.4)



1. In apparatus for generating picture signals for colour television, an electron discharge pick-up tube having a photo-electrically sensitive sur-

face arranged for exposure to light images of mixed colours, means for establishing a potential field for differentially controlling the electrons released by a light image from said photosensitive surface in dependence upon the energies of said electrons, and means for generating from said differentially controlled electrons picture signals representative of different colour components of a light image.

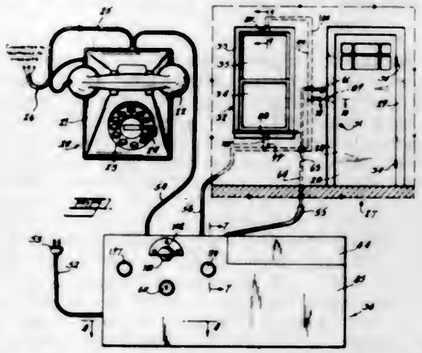
2,661,393
MECHANICAL SCANNING DEVICE
David Arthur Bell, Birmingham, England, assignor to British Telecommunications Research Limited, Taplow, England, a company of Great Britain
Application October 31, 1949, Serial No. 124,637
Claims priority, application Great Britain November 17, 1948
8 Claims. (Cl. 178—7.6)



1. A mechanical device for scanning a picture to produce picture signals, comprising a hollow cylinder mounted for rotation about its geometrical axis and having a helical slit formed therein, a fixed mask disposed within said cylinder and having a straight slit formed therein, a lens system disposed within the cylinder, said slit in said mask and a narrow straight zone substantially at the outer surface of said cylinder and parallel to the axis thereof lying in conjugate focal planes of the lens system, a device for illuminating said picture, and a light-sensitive device for receiving light from said picture, one of said devices being disposed on the opposite side of said mask with respect to said lens system.

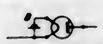
2,661,394
BURGLARY AND FIRE ALARM
Carsten J. Munch, Bronx, N. Y.
Application August 16, 1951, Serial No. 242,100
5 Claims. (Cl. 179—5)

1. An alarm system for connection to a telephone having a dial mechanism, a transmitter, and a switch for controlling connection of the telephone with a central office when the hand set of the telephone is lifted comprising a step-down transformer, said transformer having a primary winding and a secondary winding, said primary winding being connected to a household source of power, a recording unit, said recording unit including an amplifying circuit having an input and an output, the input of said amplifying circuit being connected to said household source of power in parallel with the primary winding of said transformer, the output of said amplifying circuit being connected to the transmitter of the telephone, said recording unit further including a drive motor, and means operable by said drive motor for transmitting a recorded message to said amplifying circuit, a first coil connected in series with said secondary winding of said transformer, a first core located within said first coil, a first switch connected to said first core, spring means for normally maintaining said switch in an open position, said first core being adapted to move longitudinally through said first coil when the latter is current activated and to close said first switch, a plurality of control switches connecting said first coil with said secondary winding of said transformer, said control switches being connected in parallel with each other whereby closing any one of said switches will current-activate said first coil, a second coil connected in series with said secondary winding of said transformer and said first switch, a second core located within said second coil, a pair of switches connected to said second core, second spring means for normally maintaining said pair of switches in an open position, said second core being adapted



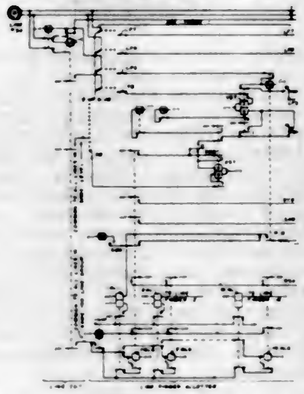
to move longitudinally through said second coil when the latter is current-activated and to close said pair of switches, said pair of switches being connected in shunt of the switch of the telephone whereby to establish contact with the central office without lifting the handset, a third switch connected to said second core and adapted to be maintained in an open position by said second spring means, dial means including a dial mechanism connected in series with the dial mechanism of the telephone for dialing the operator when contact is established with the central office by said pair of switches, said second core being further adapted to close said third switch when said second coil is current-activated, and means operable by the closing of said third switch for first operating said dial means and then operating said drive motor to transmit said recorded message to the operator through the transmitter of the telephone.

2,661,395
VARIABLE RESISTANCE SIGNALING SYSTEM
Knut Olof Ivar Styrén, Malarhojden, and Harold Jefferson, Stockholm, Sweden, assignors to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden
Application November 2, 1949, Serial No. 125,146
7 Claims. (Cl. 179—16)



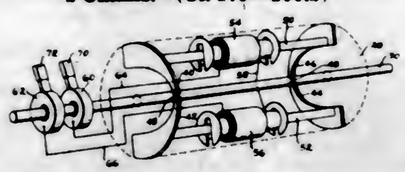
1. In a signalling system for automatic telephone exchanges, in combination, a sending station including a variable resistance and a keyset for selectively varying said resistance, a receiving station including measuring and registering means responsive to the magnitude of change of a voltage; a line joining the said stations; a source of potential and a device for holding the current therefrom substantially constant connected in series and to said line; said measuring and registering means being connected across the line; the voltage comprising the product of said constant current and the change of impedance in said device by a change in said variable resistance serving to operate said measuring and registering means.

2,661,396
LINE FINDER WITH DIFFERENTIAL TEST RELAY
Winfred T. Powell, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Original application July 10, 1947, Serial No. 759,972. Divided and this application January 15, 1949, Serial No. 71,152
5 Claims. (Cl. 179—18)



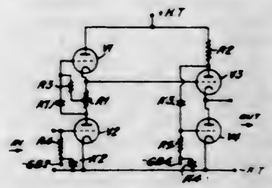
1. In a telephone system, a line finder, lines arranged in groups accessible to the wipers of said line finder, a start relay in said line finder having a plurality of windings, contacts on said start relay, means responsive to a call originating from a line in one of said groups for operating said start relay by energizing one of its windings, means responsive to the operation of said start relay for closing said contacts, means responsive to the closing of said contacts for automatically stepping the wipers of said line finder in a hunting movement, and means for releasing said start relay and opening said contacts in order to stop said hunting movement by energizing another of its windings.

2,661,397
MAGNETIC RECORDING
Gregory E. Berens and Charles Colbert, Dayton, Ohio
Application May 8, 1948, Serial No. 25,914
2 Claims. (Cl. 179—100.2)



1. A strip recording mechanism for recording intelligence along a plurality of parallel paths on a strip storage medium, comprising a plurality of cylindrical recording heads having equal radii and rotated by a common shaft, the number of heads being equal to the number of parallel paths, each head having on its periphery at least on recording element adapted to impose a record on the storage medium and to provide a magnetic flux gap with the magnetic flux gaps connected in a common magnetic circuit, means for moving the strip storage medium in one direction at a constant linear speed substantially in contact with each head over a predetermined arc, means for rotating each of said recording heads at a constant peripheral speed in a sense opposite the direction of storage strip movement, the variable factors of said mechanism being so selected that the sum of the products of the number of recording elements on each head times the predetermined arc of contact of the storage strip with the respective head expressed as an angle in radians shall equal 2 pi, and for each cylindrical recording head the ratio of the speed of the storage strip to the peripheral speed of the respective cylindrical head shall equal the product of the number of recording elements for the corresponding head and the arc of contact of the storage strip with the head expressed as an angle in radians divided by the quantity 2 pi minus said product, and for each cylindrical recording head the radius of the cylinder shall be equal to the length of record produced by any one recording element in one revolution of its corresponding recording head multiplied by a quantity equal to the fraction one over the arc of contact of the storage strip with the corresponding head expressed as an angle in radians minus the fraction, the numerator of which is the number of recording elements on the respective cylinder and the denominator of which is 2 pi, whereby a plural path record is produced, the segments of each path of which are formed in aligned abutting relation without physical gaps or overlaps therein and in which there is but one recording element effective to record at any given time.

2,661,398
STABILIZED THERMIONIC AMPLIFIER
Victor James Cooper, Writtle, and John Esmeade Arthur Nixon, Colchester, England, assignors to Marconi's Wireless Telegraph Company Limited, London, England, a company of Great Britain
Application February 28, 1949, Serial No. 78,804
Claims priority, application Great Britain May 20, 1948
5 Claims. (Cl. 179—171)



1. A thermionic valve amplifier including two pairs of valves each having at least a cathode, a control electrode and an anode, a common anode potential source for all four valves, means connecting the valves of the first pair in a series circuit across said anode potential source said circuit including a first connection between the cathode of one of the valves of said first pair and the anode of the other of the valves of said first pair including a resistor connected at one end to said last mentioned cathode and at the other end to said last mentioned anode, a tap intermediate

the ends of said resistor connected to the control electrode of the first mentioned valve of said first pair of valves, a coupling condenser between the anode of the other valve of said first pair of valves and the control grid of the aforementioned valve of said first pair of valves, means for applying signals to be amplified to a control electrode of said other valve of said first pair, means connecting the valves of the second pair in a second series circuit across said anode potential source, said circuit including a second series connection between the cathode of one of the valves of said second pair and the anode of the other of the valves of said second pair, means for coupling a point on said first connection to a control electrode of said one valve of said second pair, means for coupling the anode of said one valve of said second pair to a control electrode of said other valve of said second pair, and an output circuit connected with said second connection.

2,661,399

VARIABLE BAND WIDTH AMPLIFIER

Robert L. Harvey, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 27, 1949, Serial No. 107,108
1 Claim. (Cl. 179—171)



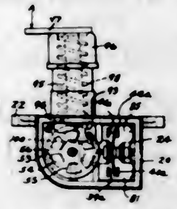
In a variable band with amplifying system, a signal input means having controllable gain, said signal input means having input and output circuits and being tuned to receive a band of signal modulated carrier waves subject to signal level variations, a signal amplifying device having input and output electrodes, said input electrodes having variable capacitance effect therebetween, a transformer having a primary winding tuned to resonance connected across the output circuit of said signal input means and a secondary winding tuned to resonance connected between said input electrodes, said primary and secondary windings being tuned substantially to the center frequency of said carrier-wave band, variable permeability core means for said primary winding, said core means comprising a variable permeability core element and a permanent magnet polarized and movably positioned to subject said variable permeability core element to a substantially constant magnetizing force in opposition to the magnetizing force from current in said primary winding, a substantially constant permeability core element for said secondary winding, a source of automatic gain control potentials, circuit means for applying an increased gain control potential to said signal input means to thereby effect decrease in signal current in said primary winding, said decrease in signal current increasing the permeability of said variable permeability core means to lower the resonant frequency of said primary winding, circuit means for connecting said gain control potential between said input electrodes of said amplifying device, said control potential decreasing the capacitance effect between said input electrodes to raise the resonant frequency of said secondary winding, said changes in resonant frequency in said primary and secondary windings being substantially equal as well as opposite, whereby the center frequency of the band to which the system is tuned remains substantially constant with said frequency changes, a utilization circuit and circuit means for connecting said output electrode of said amplifying device to said utilization circuit.

2,661,400

SWITCH

Howard K. Gandelot, Grosse Pointe, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 27, 1950, Serial No. 202,838
7 Claims. (Cl. 200—7)



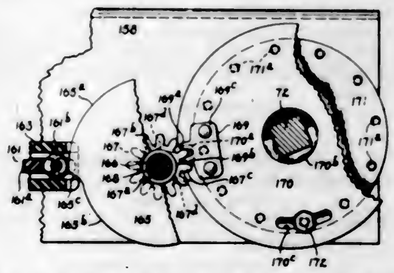
4. A selector switch comprising a plurality of pairs of cooperating stationary and movable contacts; an actuator biased to a normal position and capable of longitudinally axial and tilting movements; rotatable means carrying the movable contact of two pairs of said plurality of pairs of cooperating contacts; reciprocable means carrying the movable contact of another two pairs of cooperating contacts; means for biasing the reciprocable means in one direction so that the movable contact engages one of the pairs of contacts; and means on said actuator for engaging and moving the reciprocating means to separate the contact from said one pair of contacts and into engagement with the other pair of contacts when said actuator is tilted in its normal position.

2,661,401

ADJUSTABLE MULTIPOSITION ELECTRICAL CONTROLLER

Theodore B. Jochem, Wauwatosa, and Harold L. Mekelburg, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application August 9, 1950, Serial No. 178,472
8 Claims. (Cl. 200—18)



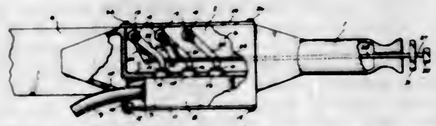
3. In a switching controller, in combination, an operating shaft rotatable in reverse directions, a relatively stationary shaft, an assembly comprising a disc cam and a concentric gear member fixed to said cam rotatably mounted on said stationary shaft, a switch having a reciprocably movable actuating element biased for continuous engagement with the edge of said cam, said cam upon rotation through a given angle in reverse direction affording closing and opening of said switch, a concentric disc fixed to said operating shaft, a second disc disposed about said operating shaft in concentric and engaging relation with the first mentioned disc, means affording fixed but rotary adjustable securement of said discs to each other, and a gear sector fixed to said second disc engageable with said gear member to afford drive of said cam through said given angle whenever said operating shaft is rotated through a predetermined angle in each revolution thereof in reverse directions.

2,661,402

SWITCH ACTUATOR

Theodore H. Balch, Salem, Oreg., assignor to Sel-Set Company, West Salem, Oreg., a corporation of Oregon

Application March 21, 1951, Serial No. 216,803
4 Claims. (Cl. 200—18)



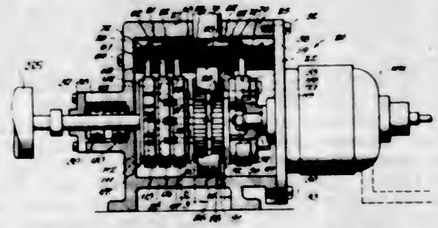
1. A switch actuator comprising, in combination with a switch box containing switch means to be actuated; a body including an elongated handle, a hollow housing connected to one end of the handle, a plate extending parallel to the longitudinal axis of the handle and separating the housing into two longitudinal compartments one of which is adapted to contain the switch box, the plate being apertured transversely to receive the switch means therethrough whereby to stabilize the switch box against displacement, finger means mounted pivotally in the second compartment and arranged to contact the switch means, elongated rod means extending slidably and longitudinally through the elongated handle into the second compartment, and means pivotally connecting the inner end of the rod means to the finger means, whereby longitudinal movement of the rod means pivots the connected finger means and actuates the switch means in a direction transversely to said rod means.

2,661,403

CONTROL APPARATUS

Rosser L. Wilson, Mahwah, N. J., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware

Application January 22, 1949, Serial No. 72,170
13 Claims. (Cl. 200—24)



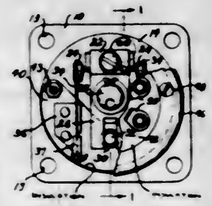
3. A switch of the type adapted to be used in control apparatus for sensing the relative rotation of two rotating members, a supporting member, a stator mounted on said supporting member in stationary relation thereto, two rotors rotatably mounted on said supporting member, said rotors being rotatable relative to said stator, electrically conductive means mounted on each of said rotors and rotatable therewith in engagement with said stator, said conductive means on one of said rotors being in engagement with one area on said stator during rotation with said one rotor, said conductive means on the other of said rotors being in engagement with another area on said stator during rotation with said other rotor, and means affording electrical connections between predetermined portions of said two areas at spaced intervals thereon for selectively interconnecting one of said conductive means on one of said two rotors with conductive means on the other of said rotors, when said last mentioned means on said two rotors are simultaneously disposed in contact with electrically interconnected portions on said two areas.

2,661,404

CIRCUIT MAKER AND BREAKER

Lee S. Wasserman, Dayton, Ohio, assignor to The Globe Industries, Inc., Dayton, Ohio, a corporation of Ohio

Application February 7, 1950, Serial No. 142,743
12 Claims. (Cl. 200—30)



1. In a circuit maker and breaker, a support, stationary contact means carried by said support, a rotatable shaft carried by said support, an eccentric on said shaft, a lever having a bearing aperture arranged in bearing engagement with said eccentric, means including a fixed slide element for limiting the oscillating movement of one portion of said lever, and a contact carried by said lever and arranged to move into and out of engagement with said stationary contact means in response to rotation of said eccentric, said contact carried by the lever being positioned adjacent the eccentric and in spaced relation with respect to the fixed slide element.

2,661,405

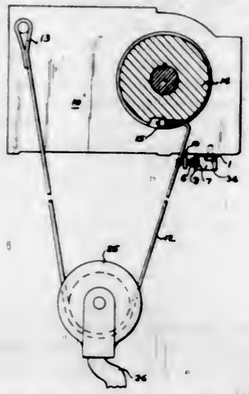
SAFETY DOWN LIMIT SWITCH FOR CABLE HOISTS

James A. Western, Detroit, Mich., assignor to Detroit Hoist and Machine Company, Detroit, Mich., a corporation of Michigan

Application July 12, 1950, Serial No. 173,621
1 Claim. (Cl. 200—47)

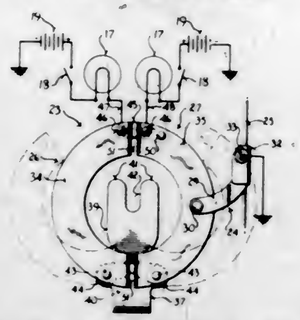
In a safety device for a cable hoist, a mounting plate adapted to be secured upon the underside of said hoist adjacent its cable, a normally closed limit switch mounted upon said plate, a movable limit switch actuating plunger pin projecting therefrom, a pair of spaced stationary supports projecting from said mounting plate, a flat plate of rectangular cross-section transversely apertured to slidably receive said supports and movably mounted thereon adjacent said switch and normally engaging said plunger pin, arranged transversely of and in spaced relation to said cable upon unwinding thereof and engageable by said cable as it rewinds for opening said limit switch, means on said stationary supports limiting the outward positioning of said plunger engaging plate, and coiled springs on said supports

interposed between said mounting plate and said plunger engaging plate normally urging said



plunger engaging plate into its outward non-actuating position.

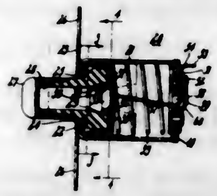
2,661,406
ALTERNATING LIGHT FLASHER FOR BICYCLES
Raymond C. Callan, Milwaukee, Wis., assignor to McLaughlin & Slugg, Milwaukee, Wis., a partnership
Application March 1, 1951, Serial No. 213,422
2 Claims. (Cl. 200—61.12)



1. Fixed contact means for a bicycle light flasher of the character described, comprising: a bracket having a flat, bifurcated leg adapted to straddle an axle of a bicycle, with the axle received in the slot defined by the bifurcations, and to be clamped between a part of the fork member supporting said axle and another part fixed on the axle, and another leg extending from said bifurcated leg and bent laterally to one side of the plane of the latter; and a pair of flat substantially arcuate contacts secured to said other leg and insulated therefrom and from one another, with their flat faces disposed in a plane substantially parallel to the plane of the bifurcated leg and concentric to an axis transverse to said plane and passing through the slot defined by the bifurcations.

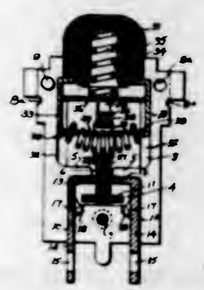
2,661,407
SWITCH
James E. Jones, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 28, 1951, Serial No. 258,686
5 Claims. (Cl. 200—61.78)

1. In an electric switch, the combination comprising; a metal housing; a plunger of insulating material slidably supported by the housing and having a recess; a movable contact member supported by the inner end of the plunger and having an interrupted contact surface extending into the recess of the plunger and having segmental fingers engaging the housing; a closure for the housing; a spring contact having one end fixed to the closure and having its free end extending into



the recess and adapted to engage the contact surface within the recess when the plunger is in its normal position, the walls of said recess providing a surface for engagement by the free end of the spring contact upon turning of the plunger a certain angular distance to disengage the contacts; and resilient means for opposing inward thrusts of the plunger to disengage the contacts.

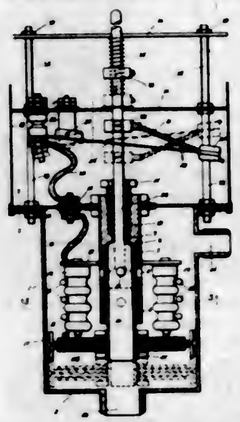
2,661,408
ELECTRICAL SWITCH
John C. L. Shabeck, Jr., Waltham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application March 9, 1946, Serial No. 653,372
11 Claims. (Cl. 200—76)



3. An electric switch having a plurality of spaced fixed contacts and a movable contact adapted to bridge pairs of said fixed contacts in circuit-closing position, and means for moving said movable contact between circuit-closing and circuit-breaking positions comprising an operating yoke, an over-center coiled spring operatively connected at its ends to said yoke, a movable contact carrier plate member of substantially less thickness than the length of said spring and disposed between said fixed contacts and normal to the movable contact and spring, said yoke being operable to move the ends of the spring in a direction normal to the plane of said fixed contacts past a dead center position to cause the central portion of the spring to be snapped between oppositely bowed positions and directly transmit to said carrier and movable contact the force of the spring under compression to maintain high pressure engagement between said movable and fixed contacts, said movable contact being freely rockable in said carrier to equalize the contact pressure of said spring between said movable and fixed contacts, fixed abutment means between the carrier and yoke and spring

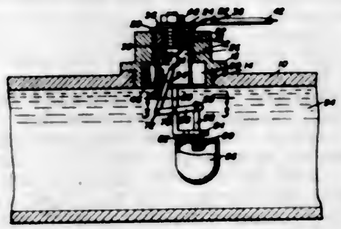
means between said abutment means and yoke for urging said movable contact into one of said positions.

2,661,409
AUTOMATIC ELECTRIC WATER HEATER
Lorenzo Lorenzetti, Sao Paulo, Brazil
Application February 21, 1951, Serial No. 212,111
3 Claims. (Cl. 200—81.9)



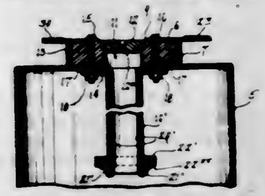
1. An improved automatic electric water heater comprising a chief cylindrical body provided with a lower inlet aperture and an upper outlet aperture, said cylindrical body being also provided, at the center of its upper end, with a fixed tubular support including a lower cylindrical part disposed within said cylindrical body and having a plurality of openings through the wall thereof, a movable piston disposed in said cylindrical body to divide the latter into two superimposed chambers, said piston being provided with a central tubular member disposed for sliding movement within said cylindrical part of said tubular support, the walls of said tubular member being provided with a plurality of openings disposed for registration with the openings through said cylindrical part upon upward movement of said piston in response to water pressure thereon, whereby water can pass from the lower of said pair of superimposed chambers to the upper one thereof through said registering openings.

2,661,410
BRAKE FLUID SAFETY INDICATOR
Thomas R. Luczko, Johnstown, Pa., assignor of sixteen per cent to Joseph Luczko, sixteen per cent to Charles Finch, and sixteen per cent to Nick Finch, Johnstown, Pa.
Application November 13, 1950, Serial No. 195,271
3 Claims. (Cl. 200—84)



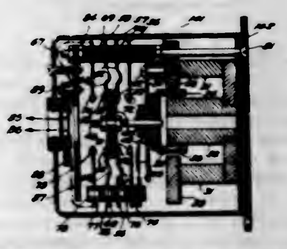
1. A float operated switch comprising a support member having a threaded portion adapted to be receivably engaged in the filling opening in the master cylinder of a hydraulic brake system, an arm depending from said member, a laterally projecting guide eye portion at the lower end of said arm, a float including an upstanding stem slidably received in said eye portion, said eye portion forming a stop limiting upward movement of the float, a link pivoted intermediate its ends to the arm above the eye portion, a contact carried by the member, said member having a recess therein accommodating said contact, a bottom plate secured to the member and closing the lower end of said recess, said arm being fixed to said plate, and a conductive switch plunger slidably carried by the plate and extending upwardly into the recess for movement into and out of direct engagement with said contact, one end of said link being pivoted to the upper end of said stem and the other end of said link being pivoted to the lower end of said plunger.

2,661,411
AUTOMATIC FLUID LEVEL SIGNAL FOR AUTOMOBILES
Harold Berger, Bronx, N. Y.
Application November 13, 1952, Serial No. 320,299
11 Claims. (Cl. 200—84)



7. In a fluid supply indicator for an automobile supply tank having a threaded inlet opening, an insulating plug threaded in said inlet opening, an insulating tubular housing supported by said plug and extending into said tank, said housing having an open inner end communicating with the interior of the tank, opposed conducting strips extending along the inner surface of said housing and outwardly of the open inner end thereof forming exterior contacts, and a cork washer slidable along the outside of said housing, said washer having a tin foil lining on its under-surface adapted to engage said exterior contacts when the fluid in the tank reaches a predetermined level.

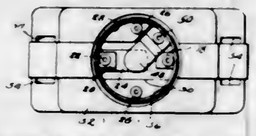
2,661,412
ELECTROMECHANICAL RELAY
Jean Albert Dreyfus, Geneva, Switzerland
Application November 10, 1948, Serial No. 59,361
5 Claims. (Cl. 200—110)



1. An electro-mechanical relay, comprising in combination, means for producing a magnetic field, an armature adapted to be located within said field and having a carrier, a winding carried

by said carrier, contacts and means connecting said contacts with said carrier, a plurality of thin resilient metallic strips located in one plane transverse to the armature, and extending radially in relation to said armature, an outer support, said strips having inner ends connected to said contacts and outer ends connected to said outer support, each of said strips having at least two bent portions and at least three straight portions joining said bent portions, all of said portions being in the plane of the strip, whereby said armature is suspended by said strips and is moved transversely thereto by electromagnetic forces, resilient radial strips connected with said contacts, other contacts spaced in relation to first-mentioned contacts and engaged thereby when said armature is moved, and radially disposed resilient elements carrying said other contacts.

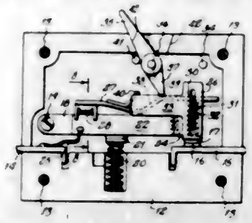
2,661,413
FUSE PROTECTED ELECTRICAL OUTLET
Jerome Emile Doss, Stuart, Fla.
Application September 4, 1951, Serial No. 244,914
1 Claim. (Cl. 200—115.5)



In a fuse protected electrical circuit a pair of spaced prongs adapted to enter a convenience outlet and engage the spring contact thereof, an insulated base plate having outlets therethrough for receiving the prongs of an outlet plug, pairs of spaced spring contacts on said base plate below said slots, one pair of said spring contacts being electrically connected directly to one of the prongs entering in said convenience outlet, a screw threaded shell of conducting material electrically connected to the other of the spring contacts, a center contact within but electrically isolated from said shell, said center contact being electrically connected to the other of said prongs entering in said convenience outlet whereby when a fuse is threaded into the shell and engages the center contact electrical connection will be effected between the prong that is connected to the center contact and the spring contacts opposite those which are directly connected to a prong, a spring tongue of conducting material within the shell and overlying the center contact, and said spring tongue being electrically isolated from the shell and displaced from the center contact toward the open end of the shell to disrupt electrical communication between the center contact and the shell when no fuse is in the shell.

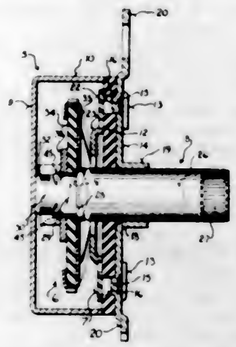
2,661,414
ELECTRIC CIRCUIT BREAKER
Robert T. Casey, Bristol, Conn., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application March 9, 1951, Serial No. 214,769
9 Claims. (Cl. 200—116)

1. In a circuit breaker, a stationary contact, an elongated movable switch member pivotally mounted at one end and having a movable contact at its opposite ends for cooperation with said fixed contact, a thermally deformable strip mounted at one end upon the movable end of said switch member and extending in substantially parallel relation with said switch member toward the pivotally mounted end thereof, an elongated rocker member pivotally mounted upon said movable end of said switch member and extending in substantially parallel relation with said switch member toward said pivotally mounted end thereof, said rocker member normally engaging said deformable strip in latching relation adjacent the pivotally mounted end of said switch member thereby normally to maintain said rocker mem-



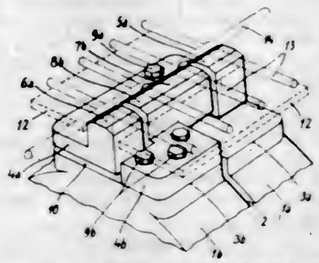
ber and said switch member in relatively fixed positional relation and to permit rotation of said rocker member relative to said switch member in response to thermal deformation of said strip, spring means biasing said switch member to a circuit opening position, and an actuating member having a portion engaging said rocker member intermediate its ends to move said switch member to closed circuit position against the force of said spring means.

2,661,415
VARIABLE RESISTOR AND ACTUATOR THEREFOR
Arthur M. Daily and Joseph G. Veatch, Jr., Elkhart, Ind., assignors to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana
Application January 4, 1951, Serial No. 204,406
3 Claims. (Cl. 201—55)



1. In an electrical control instrumentality: a housing having a front wall provided with an aperture, a rear wall which is imperforate at its portion opposite said aperture, and a side wall joining the front and rear walls and holding them in fixed spaced apart relationship; cooperating stationary and rotatable control elements within said housing; means mounting the stationary control element on said apertured front wall between it and the rotatable control element; a drive shaft freely rotatable and axially movable in the aperture in the front wall, said drive shaft having a portion thereof exposed at the front of the housing and another portion thereof within the housing and passing through a hole in the rotatable control element; a rearwardly facing shoulder on the portion of the shaft within the housing, said shoulder overlying the front of the rotatable control element; means for securing the rotatable control element to said other portion of the shaft and against the shoulder thereon including swaged portions on the shaft upset against the rear of the rotatable control element to clamp the same against the shoulder; the cooperating stationary and rotatable control elements including spring means yieldingly urging said elements apart and thereby imposing a rearward end thrust upon the shaft to bias the same toward the rear wall of the housing; and an end thrust carrying rear end portion on the shaft abutting the rear wall of the housing, said end portion in coaction with the rear wall providing the sole means for carrying the end thrust imposed upon the shaft by the spring means, and the distance said rear end portion projects beyond the shoulder determining the location of the rotatable control element with respect to the stationary control element and establishing the tension upon said spring means so that by accurate dimensioning of said distance the desired spring tension is obtained.

2,661,416
WELDING HEAD FOR SIMULTANEOUSLY EFFECTING A SERIES OF SPOT WELDS ACCORDING TO THE DOUBLE SPOT METHOD
Kuno Eisenburger, Wels, Austria, assignor to EVG Entwicklungs- und Verwertungsgesellschaft m. b. H., Graz, Styria, Austria
Application January 7, 1952, Serial No. 265,344
Claims priority, application Austria January 18, 1951
4 Claims. (Cl. 219—4)



1. A weld head for simultaneously effecting a series of spot welds according to the double spot method, comprising in combination: at least two plate shaped electrode holders arranged side by side substantially in a common plane, projections arranged on the edges of the said plates facing one another, the said projections projecting beyond the plane of the said plate-shaped holders and intermeshing with one another gear teeth-fashion along the welding line, with an insulating gap left free between adjacent projections, the said projections serving as weld electrodes.

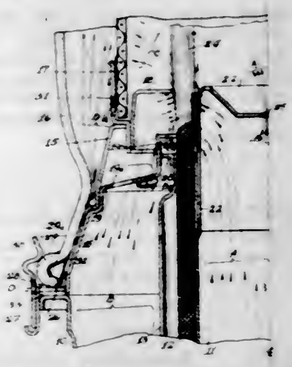
2,661,417
KEYHOLE ILLUMINATOR
Charles I. Blackburn, Hudson, and Kenneth H. Percy, Twinsburg, Ohio, assignors to John B. Hudak, Twinsburg, Ohio
Application June 20, 1949, Serial No. 100,108
9 Claims. (Cl. 240—2.13)

7. An illuminator comprising a housing for a battery, a lamp, and switch means, said housing having an extension, on one end only, adapted for attachment of said housing to a structure, and said extension being laterally, outwardly offset from one side of said housing, whereby said housing may be moved toward said structure by



flexure of the material of the housing between said housing and said extension.

2,661,418
BURNER AND CHIMNEY FOR INCANDESCENT MANTLE LAMP
Walter B. Engh, Alexandria, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois
Application May 13, 1950, Serial No. 161,812
2 Claims. (Cl. 240—99)



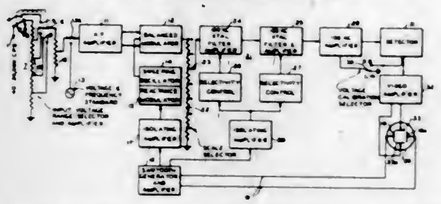
1. In a burner of the incandescent mantle type, the combination of a chimney having a conical and upwardly converging lower end portion, a gallery having an upwardly converging conical portion within and spaced from the lower end portion of said chimney, said gallery having a seat supporting said chimney, and a cylindrical band around said seat adjacent the lower end of said chimney, the lower end portion of said chimney having spaced humps extending outwardly and laterally therefrom, and said band having inwardly extending lugs above and engaging said humps and removably holding said chimney on said seat, said humps extending laterally to closely adjacent said band and centering said conical portions relatively to each other to form therebetween a closed narrow air passage, the lower end of said chimney being a plane surface perpendicular to the chimney axis, and said seat having upwardly projecting spaced humps engaging said chimney end and spacing it above said seat to form a horizontal air passageway under said chimney end communicating with the lower end of said narrow air passage formed by the chimney and the gallery.

2,661,419

WIDE BAND SPECTRUM ANALYZER

Ben H. Tongue, Westfield, N. J., assignor, by mesne assignments, to Marcel Wallace, doing business as Panoramic Laboratories, East Port Chester, Conn.

Application April 18, 1949, Serial No. 88,109
16 Claims. (Cl. 250—20)



4. The system of panoramic spectrum analysis for spectra of width "W" cycles and having a ratio of maximum to minimum frequency of at least 10:1 including, automatic frequency scanning means, said means periodically scanning a band of the spectrum of width "W" cycles per second at a rate of

$$\frac{df}{dt}$$

cycles per second per second, where

$$\frac{df}{dt}$$

has a different value at each point of said spectrum, in accordance with the value of the frequency of said spectrum which is instantaneously being scanned, filer means following said scanning means and having a static resolution of P cycles per second, means for continuously varying the value of P as

$$\frac{df}{dt}$$

varies so that the resolution of said system remains between

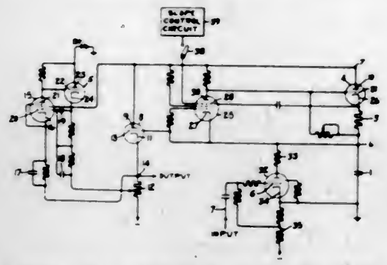
$$.2\sqrt{\frac{df}{dt}} \text{ and } 5\sqrt{\frac{df}{dt}}$$

2,661,420

LINEAR SAWTOOTH GENERATOR

Thomas E. Woodruff, Redondo Beach, Calif., assignor to General Electric Company, a corporation of New York

Application February 10, 1950, Serial No. 143,488
4 Claims. (Cl. 250—27)



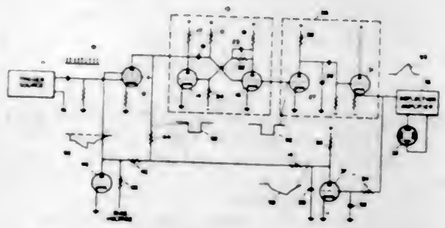
1. A sawtooth generator comprising a condenser in series circuit with an impedance, a first and second electron discharge device, said impedance comprising the cathode load impedance of said first device, a unidirectional voltage source, means for energizing said series circuit from said source, means coupled to the junction of said condenser and said impedance, and responsive to the charging of said condenser for maintaining the voltage drop across said first electron discharge device and load impedance substantially constant, and further means responsive to the voltage drop across said cathode load impedance during said condenser charging for adjusting the effective resistance of said first device to maintain the voltage drop across said load impedance constant.

2,661,421

SWEEP GENERATOR PROTECTION CIRCUIT

Arthur J. Talamini, Jr., Caldwell Township, Essex County, and Richard C. Palmer, Nutley, N. J., assignors to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware

Application June 28, 1950, Serial No. 170,832
5 Claims. (Cl. 250—27)



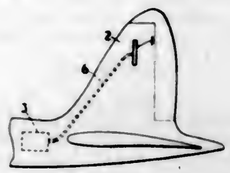
1. A driven sawtooth voltage oscillator protection circuit comprising a gating tube, a source of synchronizing voltage signals connected to an input electrode of said tube, means to gate out certain of said synchronizing signals, and a generator of sawtooth voltage oscillations triggered by others of said synchronizing signals, said means for getting out synchronizing signals comprising an integrating circuit connected to said generator to integrate each of said oscillations, a clipping circuit connected to said integrating circuit to clip the resulting integrated oscillations, and a connection between the output of said clipping circuit and an input electrode of said gating tube.

2,661,422

SLOTTED ANTENNA SYSTEM

William Arthur Johnson, Farnborough, and Rex Henry John Cary, Great Malvern, England, assignors to the Minister of Supply, in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland

Application February 21, 1949, Serial No. 77,648
13 Claims. (Cl. 250—33)



1. An antenna system comprising a structure having two conductive surfaces meeting at a line of intersection, a resonant slot radiator formed in each of said surfaces, said radiators having a plane of polarisation passing through a common portion of said line and feeding means for conveying energy between each of said radiators and

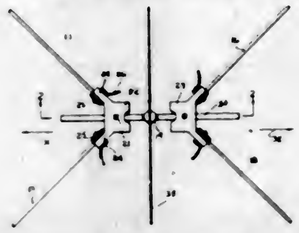
a radio equipment, the two electrical path lengths afforded through the two radiators between said radio equipment and said line of intersection in said plane of polarisation differing by substantially an odd number of quarter wavelength at the operating frequency.

2,661,423

MULTIDIRECTIONAL ANTENNA WITH INCLUDED REFLECTOR

Marvin P. Middlemark, Woodside, N. Y.

Application April 27, 1953, Serial No. 351,199
18 Claims. (Cl. 250—33.65)



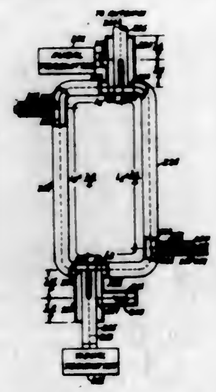
6. An antenna system comprising a pair of crossed dipoles, each of said dipoles comprising two dipole rods so that said pair of crossed dipoles comprises four dipole rods, opposite pairs of dipole rods being in the form of a V-shaped member and being disposed back-to-back with the apices facing each other and having a common angle bisector, means to select pairs of dipole rods for connection to the input terminals of a television receiver so as to selectively vary the direction of reception accordingly, and a parasitic member disposed between said V-shaped members and extending perpendicularly to said common angle bisector so that one of said V-shaped members is on one side of said parasitic member and the other V-shaped member is on the other side thereof whereby said parasitic member serves equally as a parasitic element for both of said V-shaped members.

2,661,424

DIPLEXER ARRANGEMENT

Irwin Eugene Goldstein, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application January 22, 1951, Serial No. 207,071
24 Claims. (Cl. 250—33.69)



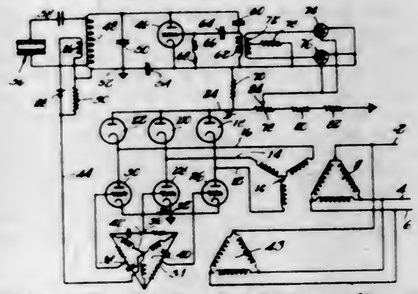
1. A transmission line circuit arrangement for selective transmission of radio frequency energy within a wide band of frequencies, including a balanced-to-unbalanced transmission line converter having a pair of balanced terminals, a pair of transmission lines connected to said balanced terminals of said converter, a resistive element coupled to both of said transmission lines at the ends thereof remote from said converter, each of said transmission lines having a reactance network coupled thereacross at a prearranged point, the distances from said converter to said prearranged points differing by a quarter wavelength at a predetermined frequency, and said reactance network presenting a low impedance across said lengths of transmission line at said predetermined frequency and a high impedance at substantially all other frequencies within said band of frequencies.

2,661,425

IMPEDANCE MATCHING GENERATOR

Eugene Mittelmann, Chicago, Ill., assignor to Mittelmann Electronics Corporation, Chicago, Ill., a corporation of Illinois

Application May 14, 1949, Serial No. 93,328
21 Claims. (Cl. 250—36)



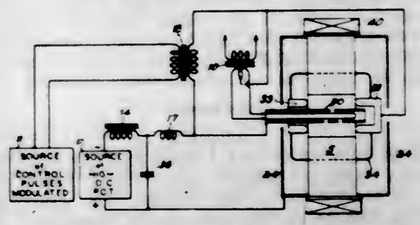
1. The method of varying the impedance of a high frequency generator having plate current and output voltage parameters to match a varying impedance load which comprises varying both the plate current and direct current plate supply voltage of the generator relatively inversely in response to change in one of said parameters.

2,661,426

MAGNETRON AND CIRCUIT THEREFOR

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

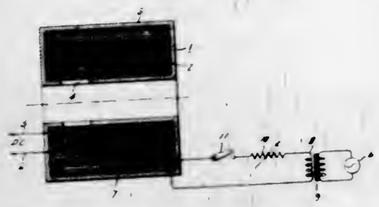
Original application December 31, 1942, Serial No. 470,768. Divided and this application August 13, 1946, Serial No. 690,135
11 Claims. (Cl. 250—36)



4. A cold cathode magnetron oscillator comprising an anode and a non-thermionic secondary emissive cathode in the center of said anode, means to supply a priming electron current for bombarding such secondary emissive cathode to start oscillation, and means including a surface within said oscillator to absorb circulating electron space charge to stop oscillation, said means

also including a circuit for applying a momentary charge on said surface which is positive relative to said cathode.

2,661,427
FOCUSING AID FOR ELECTRON MICROSCOPES
Richard S. Page, Stretford, Manchester, England, assignor to General Electric Company, a corporation of New York
Application November 29, 1950, Serial No. 198,053
Claims priority, application Great Britain February 23, 1950
15 Claims. (Cl. 250—49.5)



1. The method of ascertaining and adjusting the focus of an electron microscope of the type wherein electrons travel from a source through a condenser lens field to a specimen and thence through an objective lens field to a viewing screen, said method comprising: cyclically increasing the angular aperture of the condenser lens at a rate sufficiently rapid to produce a beam of electrons appearing to be continuously focused, and varying the strength of the objective lens field until the image of the specimen is brought to a desired sharp focus on the viewing screen.

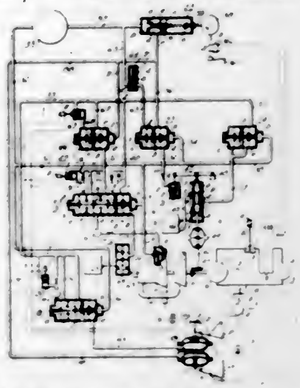
2,661,428
TRANSPORTABLE WELDING APPARATUS
Karl Joel Aversten, Lidingo, Sweden, assignor to Svenska Aktiebolaget Gasaccumulator, Lidingo, near Stockholm, Sweden, a corporation of Sweden
Application May 29, 1951, Serial No. 228,929
Claims priority, application Sweden June 1, 1950
5 Claims. (Cl. 290—1)



1. A transportable welding apparatus, comprising a combustion engine, an electric generator driven by said engine, an electric battery connected to said generator and connected to a welding device through a current regulator, and means automatically adjusting said current regulator in response to said battery current.

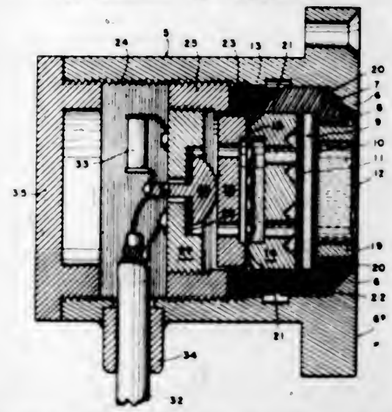
2,661,429
COMBINED MANUAL AND SPEED RESPONSIVE GAS TURBINE CONTROL SYSTEM
Harold E. Reichert, New Berlin, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application July 13, 1951, Serial No. 236,544
7 Claims. (Cl. 290—2)

1. In a control system for a combustion chamber supplying motive gas to a gas turbine, the combination of a source of air under pressure, a fuel regulating valve, operating means for said valve connectable with said source to cause said valve to be variably opened for controlling the flow of fuel to said chamber, a pneumatic totalizing device having an input chamber, an output chamber and a supply port communicating with said output chamber, said input chamber being adapted to receive a control pressure for controlling the pressure transmitted from said supply port to said output chamber, regulating means including an adjustable governor and a second pneumatic totalizing device for producing a first control pressure dependent upon the speed of said turbine, a manually operable throttle connected to said source for producing a second control



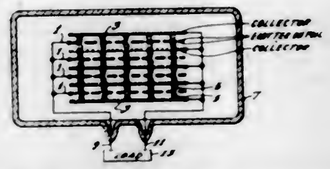
pressure which increases with the extent of movement of said throttle from the cutoff position, means connecting said regulating means to said input chamber to impress said first control pressure thereon, means connecting said throttle to said supply port to impress said second control pressure thereon, and means connecting said output chamber to said fuel valve operating means to control the opening of said valve in response to variations in the pressure in said output chamber, whereby said fuel valve is adjusted by said governor to a variable position within a range extending from closed position to a limit position which varies with the position of said throttle independently of the action of said governor.

2,661,430
ELECTROKINETIC MEASURING INSTRUMENT
Edward V. Hardway, Jr., Richmond, Va.
Application November 27, 1951, Serial No. 258,493
29 Claims. (Cl. 310—2)



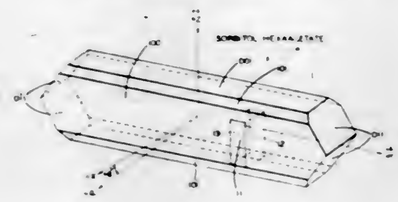
1. In an electrokinetic cell, the combination of an enclosing member, a porous plug mounted within said member and dividing the interior thereof into two chambers, and a backing member disposed in one of said chambers to provide mechanical support for said plug at a point removed from the periphery thereof, said backing member allowing liquid flow in said one chamber.

2,661,431
NUCLEAR ELECTRICAL GENERATOR
Ernest G. Linder, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 3, 1951, Serial No. 240,211
7 Claims. (Cl. 310—3)



1. Apparatus for primarily generating electrical energy including an evacuated envelope containing a plurality of emitters comprising radioactive material providing charged particle cold high energy emission, a plurality of collector electrodes alternately interspersed between and closely juxtaposed with said emitters, said emitters and collector electrodes comprising effectively equi-spaced sheet-like elements, insulating means substantially permeable to said emission for supporting said elements in said equi-spaced relation, and means connected to said elements for deriving a load current.

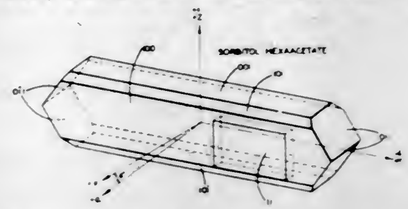
2,661,432
PIEZOELECTRIC DEVICE
James E. Mumper, Cleveland, Ohio, assignor, by mesne assignments, to Clevite Corporation, Cleveland, Ohio, a corporation of Ohio
Application May 14, 1951, Serial No. 226,140
8 Claims. (Cl. 310—8.1)



1. A piezoelectric device comprising: a piezoelectrically sensitive section cut from a single crystal of sorbitol hexaacetate and having a pair of electroded surfaces with the normal to the plane of each of said surfaces extending approximately in the direction of the Y-axis of the crystalline substance.

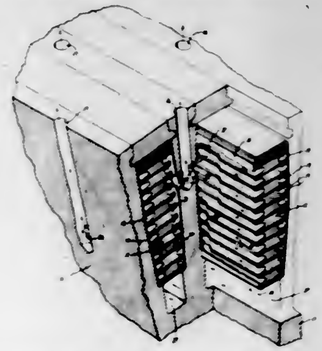
2,661,433
PIEZOELECTRIC DEVICE
Hans Jaffe, Cleveland Heights, Ohio, assignor, by mesne assignments, to Clevite Corporation, Cleveland, Ohio, a corporation of Ohio
Application May 14, 1951, Serial No. 226,182
8 Claims. (Cl. 310—8.1)

1. A piezoelectric device comprising: a piezoelectrically sensitive section having a pair of op-



posed electroded surfaces and cut from a single crystal of sorbitol hexaacetate.

2,661,434
DYNAMOELECTRIC MACHINE CORE VENTILATION
Charles E. Kilbourne, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 1, 1952, Serial No. 302,114
4 Claims. (Cl. 310—64)

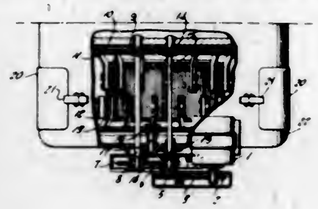


1. A ventilating arrangement for a dynamoelectric machine annular magnetic core provided with axially extending winding slots defining teeth therebetween and having a winding comprising superposed conductor bars arranged in said slots with slot insulation between the walls of each slot and the superposed conductor bars therein, said conductor bars having axially extending grooves defining tongues on their sides adjacent said insulation, fan means for introducing ventilating gas to the ends of said grooves, said conductor bar tongues being cut away at spaced axial intervals to provide exit areas, and said teeth having a plurality of outlet passage each opening at one end at the periphery of said rotor and each communicating at the other end through said insulation with at least one of said exit areas for allowing said ventilating gas to leave said grooves intermediate the ends of said core.

2,661,435
THREE-PHASE COMMUTATOR MOTOR WITH SPEED REGULATION BY BRUSH DISPLACEMENT
Gunnar Percy Bergknut and Carl J. E. Kiessling, Vasteras, Sweden, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application February 9, 1952, Serial No. 270,834
Claims priority, application Sweden February 13, 1951
3 Claims. (Cl. 310—150)

1. A speed regulating device for three-phase commutator motors having a constant speed pilot

motor for displacing the brushes, comprising yokes for the brushes, gear means operated by said pilot motor and including a pair of spiral gear wheels so meshing with each other that



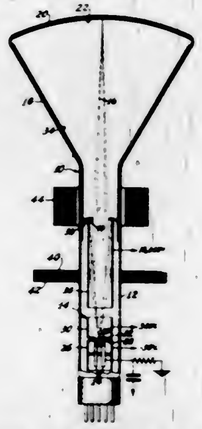
in all relative positions of said wheels the distance between their centers remains constant, and means whereby said gear means imparts to said yokes constantly varying displacement in opposite directions.

2,661,436

ION TRAP GUN

David Dale Van Ormer, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application November 7, 1951, Serial No. 255,186
10 Claims. (Cl. 313—70)



1. An electron discharge device comprising electrode gun means for providing a plurality of electron beams along respective paths, said electron gun means including an accelerating electrode having an electron impermeable portion thereof positioned in the path of each electron beam and an aperture therethrough, means for producing a magnetic focusing field for directing said beams from their respective beam paths through the aperture of said accelerating electrode.

2,661,437

DARK TRACE CATHODE-RAY TUBE

Albert E. Beckers, East Orange, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware

Application June 19, 1951, Serial No. 232,319
14 Claims. (Cl. 313—71)

1. A cathode ray tube having an enclosing envelope containing a screen which becomes tenebrescent in response to impinging electrons in a beam of one range of intensity and which becomes non-tenebrescent in response to impinging electrons in a different range of intensity, a first electron emitter for developing tenebrescence in said screen, a second electron emitter closely adjacent the screen for erasing said tenebrescence, and lead-in means for said second emitter for supplying heating current therethrough.



11. A cathode ray tube comprising a recording screen to be scanned by an electron beam, said screen having an electron transparent metal coating and a frame for supporting said screen in electrical contact with said frame, said frame comprising a pair of metal rings and an elastically compressible metal member arranged to be clamped between said rings and in conductive contact with said coating.

2,661,438

COMPOSITIONS AND METHODS OF COATING GLASS AND COATED GLASS ARTICLES

Lloyd D. Shand, Stoneham, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application July 20, 1949, Serial No. 105,708
12 Claims. (Cl. 313—116)



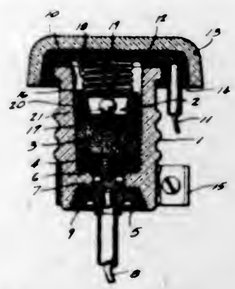
11. An electric incandescent glass lamp bulb having on the entire interior surface of the light-transmitting portion thereof a light-diffusing and light-transmitting coating consisting essentially of a mixture of from 72 to 92% by weight of dry colloidal silica particles having an average particle diameter within the range of from 40 to 800 millimicrons, and from 28 to 8% by weight of dry, substantially white, porous, amorphous solid silica particles having an average particle diameter between about 1 and 15 microns.

2,661,439

LIGHTNING ARRESTER

Herman O. Stoelting, Milwaukee, Wis., assignor to McGraw Electric Co., Milwaukee, Wis., a corporation of Delaware

Application July 31, 1950, Serial No. 176,821
1 Claim. (Cl. 313—146)



A lightning arrester spark gap assembly having upper and lower opposed electrodes each having a face provided with a multitude of minute, sharp points projecting from said face and

formed integral therewith, and a metal ball located between said electrodes and having a diameter less than the space between said electrodes, said metal ball having a multitude of minute, sharp points projecting from the surface of said ball, said lower electrode supporting said ball and said ball being free to roll on said lower electrode, the sharp points of the ball and the lower electrode being of a size to permit free rolling of said ball on said lower electrode.

2,661,440

WITHDRAWN

2,661,441

HIGH-FREQUENCY AMPLIFIER

George E. Mueller, Columbus, Ohio, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 31, 1947, Serial No. 794,939
18 Claims. (Cl. 315—3)



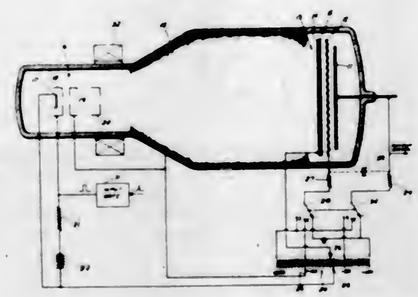
1. An electron discharge device comprising a length of dielectric wave guide having, extending therealong, a hollow central core composed of a tubular member of material having a dielectric constant substantially greater than unity and forming a portion of a non-resonant high frequency wave transmission circuit, said length of wave guide having an input end and an output end and substantially impedance matching terminations at each said end, means for applying an electric wave to said input end, whereby the wave is transmitted through said length of dielectric guide to the output end at a phase velocity dependent upon the magnitude of said dielectric constant, and means for producing a stream of electrons along a path through said length of wave guide in the region of the traveling electric field associated with said transmitted wave and in the direction of travel of said field at a velocity substantially the same as said phase velocity.

2,661,442

INFORMATIONAL STORAGE DEVICE

John A. Buckbee, Wellesley, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application March 28, 1950, Serial No. 152,467
6 Claims. (Cl. 315—12)



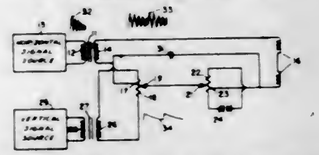
1. An informational storage device comprising a source of electrons, a foraminous storage electrode, means for beaming electrons from said source to said storage electrode, a repeller electrode positioned on the opposite side of said storage electrode from said electron source, and a grid positioned between said repeller electrode and said storage electrode.

2,661,443

TELEVISION KEYSTONE BALANCE CONTROL CIRCUIT

Harry R. Smith, Glen Ridge, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware

Application December 30, 1949, Serial No. 136,092
3 Claims. (Cl. 315—24)



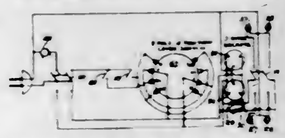
1. In a television deflection circuit for a cathode ray tube having an off center electron gun, a source of horizontal deflecting voltage, a horizontal output transformer having a primary and a secondary winding, said primary being connected to said source of voltage, a horizontal deflection coil, one end of said deflection coil being connected to a first tap on said secondary winding, a source of vertical deflection voltage, a vertical output transformer having a primary and a secondary winding, said primary of said vertical transformer being connected to said source of vertical deflection voltage, an impedance connected in series with said secondary winding on said vertical output transformer, a second tap on said secondary of said horizontal output transformer being connected to a point on said impedance, the other end of said deflection coil being connected to another point on said impedance.

2,661,444

DEVICE FOR VISUAL TRAINING

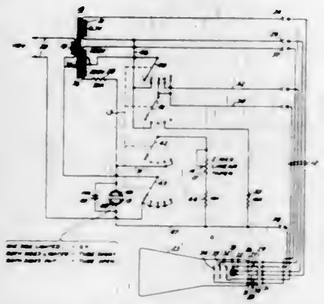
Charles W. Ott, Maywood, Ill.

Application March 21, 1951, Serial No. 216,780
3 Claims. (Cl. 315—316)



1. In a visual training device, means for controlling the flashing of electric lights comprising a rotatably mounted circular plate having a plurality of concentric paths thereon, each of said paths comprising a plurality of spaced depressions, a pair of arms pivotally mounted on a shaft adjacent said plate, said arms extending over said plate, a snap action switch mounted on each of said arms above said plate, said snap action switches adapted upon rotation of said plate to be caused to open and close by the spaced depressions in said plate, and a control rod attached to each of said arms, said control rods manually operable to move each of said arms so that the snap action switch thereof is controlled by any of the paths on said plate, one of said rods and arms controlling the sequence of lumination for the left eye and the other of said rods controlling the sequence of lumination for the right eye.

2,661,445
CATHODE-RAY TUBE TEST DEVICE
Edward J. Davenport, Elkins Park, Pa., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware
Application June 14, 1951, Serial No. 231,619
7 Claims. (Cl. 324—23)



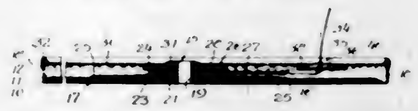
1. An instrument for testing cathode-ray tubes and the like, comprising in combination, a source of test potential of different values, a gaseous glow indicator having a pair of spaced electrodes, a multi-contact switch having one position for testing the heater-to-cathode of a tube under test, another position to test the grid-to-cathode, and a third position to test the anode-cathode, and circuit connections interconnecting said switch, said source of potential and said glow tube for causing one electrode of the tube to glow for normal test condition, both electrodes to glow for short-circuit condition, and neither electrode to glow for open-circuit condition.

2,661,446
ELECTRICAL COIL
Herbert V. Adcock, Zanesville, Ohio, assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application June 13, 1951, Serial No. 231,397
1 Claim. (Cl. 317—222)



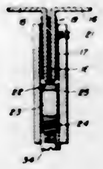
An insulated wire coil having a plurality of layers of turns wound about a central core, the ends of said coil comprising respectively an inner lead wire portion extending axially of said coil from the innermost layer of turns and an outer lead wire portion extending axially from the outermost layer of turns, an inner anchoring strip for said inner lead wire comprising an axially-extending strip of semi-rigid insulating material having a wire-receiving notch in one axially-extending edge thereof substantially at right angles to said edge, said strip lying between said core and said innermost layer of turns, said inner lead wire portion extending from beyond the end of the coil axially over said strip to said notch and continuing as the first coil turn under said strip from said notch, the subsequent coil turns of the innermost layer passing over said strip to firmly anchor the strip and the inner lead portion, and an outer anchoring strip for said outer lead wire comprising an axially-extending strip of semi-rigid insulating material having a wire-receiving notch in one axially-extending edge thereof substantially at right angles to said edge, a portion of said strip lying directly beneath the outermost layer of turns, the last outer turn of said coil extending beneath said strip through said notch and continuing substantially axially as said outer lead wire.

2,661,447
SEALED RECTIFIER
James H. Hall, Lake Bluff, Ill., assignor to Fansteel Metallurgical Corporation, a corporation of New York
Application August 16, 1952, Serial No. 304,750
6 Claims. (Cl. 317—234)



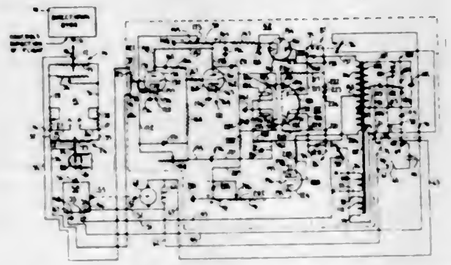
3. A sealed rectifier assembly comprising a bottom metal member having a flat portion with upstanding sides and having a tubular portion extending upwardly from the bottom of said member, a compression sleeve of insulating material around said tubular member, a rectifier cell lying in said bottom housing member with said tubular portion and compression sleeve passing through an apertured cell portion, said cell including flat carrier and counterelectrodes between which there is disposed an asymmetrically conducting layer, said compression sleeve being longer than the maximum thickness of the rectifier cell, a metal cover for said bottom portion and adapted to be sealed thereto at the edges, said cover having an aperture through which the upwardly extending tubular portion passes, the free end of said tubular portion being bent over said cover to lock the same in place, said compression sleeve taking the compression incident to locking the two parts of the housing at said upstanding portion, said housing having an insulating liquid within the same for transferring heat developed in said rectifier to the walls of the housing, said rectifier cell being grounded to the housing by having one electrode contacting the housing and means passing through the housing, and insulated therefrom, for establishing an external connection to the other electrode of said cell.

2,661,448
TRANSFER RESISTOR AND METHOD OF MAKING
George H. Rodgers, Jr., Inglewood, Calif., assignor to North American Aviation, Inc.
Application December 20, 1948, Serial No. 66,386
6 Claims. (Cl. 317—235)



5. Electrical amplifying means comprising a crystal exhibiting semi-conductive properties, a tubular holder for said crystal adapted to allow freedom for translational motion of said crystal in one direction only, means for adjusting the position of said crystal in said holder while maintaining resilient pressure on it, a cylindrical member fitted within said holder in opposed position to said crystal containing two conductors adapted to contact said crystal at a predetermined distance apart, and means for holding said crystal and said cylindrical member rigidly in opposed position within said holder when said adjustment is completed.

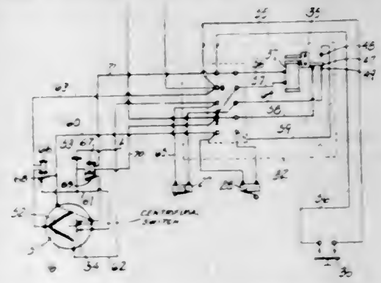
2,661,449
ELECTRONIC CONTROL APPARATUS
Willis H. Gille, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Original application June 22, 1942, Serial No. 447,989. Divided and this application November 1, 1948, Serial No. 57,667
14 Claims. (Cl. 318—28)



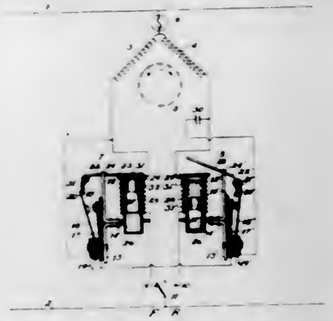
1. An electrical circuit, comprising in combination, an electrical discharge device having an anode, a cathode, and a control electrode, an output circuit for said device including said anode and cathode, a fixed resistance, an input circuit for said device including said resistance, said control electrode and said cathode in a series branch thereof, means connected to said series branch, for applying a biasing potential across said series branch of a polarity such that said control electrode is positive with respect to said cathode, the potential difference developed across said resistance upon a flow of current through said series branch being effective to limit the potential of said control electrode to a value only slightly positive with respect to said cathode, means, connected to said series branch, for applying a first variable signal potential across said series branch, said biasing potential applying means cooperating with said resistance to prevent any substantial variation of the current in said output circuit except when said signal potential is opposite said biasing potential in polarity and greater than said biasing potential in magnitude, and means, connected to said series branch, for impressing across said series branch a second variable signal potential variable in magnitude dependent upon the value of said first signal potential and periodically varying with an amplitude less than the magnitude of said biasing potential, so as to periodically vary the magnitude of the variations in said output current caused by said first signal.

2,661,450
REVERSIBLE MOTOR AND CONTROL MECHANISM THEREFOR
Charles C. Moler, Hartford City, Ind., assignor to Overhead Door Corporation, Hartford City, Ind.
Application January 12, 1951, Serial No. 205,789
2 Claims. (Cl. 318—202)

1. In combination with a reversible motor having two windings connected to a common terminal, control mechanism for said motor comprising, a threaded shaft driven by said motor, a traveling nut on said shaft, limit switches positioned to be actuated by said nut in opposite directions of movement of the nut, a reversing switch including a center contact movably positioned between two spaced terminals to alternately make contact with one of the terminals and break contact with the other, a first solenoid and actuating links operated thereby connected to move said center contact alternately into engagement with said spaced terminals upon actuation of said solenoid, energizing circuits connected between said spaced terminals and said windings at the opposite ends thereof from said common terminal, said limit switches being connected one in each of said energizing circuits, a manually controllable actuating circuit connected to energize said first solenoid, a bridging circuit connecting the opposite ends of said windings from said common terminal and including in series a condenser and a centrifugal switch associated with said motor and adapted to be opened thereby above a predetermined speed thereof, a shunt circuit connected around said centrifugal switch and including a normally open switch controlled by a second solenoid, a circuit connected to energize said second solenoid and connected in parallel with said actuating circuit to be energized therewith, and a source of electricity connected to said common terminal and said center contact of said reversing switch.



2,661,451
INSTANTLY REVERSING MOTOR
Emil S. Tamm, Plainfield, N. J., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application January 26, 1952, Serial No. 268,496
7 Claims. (Cl. 318—207)



1. An instantly reversing motor comprising a rotor, a pair of space displaced running windings having a common line connection at one end thereof; a pair of time delay current relays each including a normally closed switch, an energizing coil, a magnetically actuated armature for opening said switch positioned beyond the in-

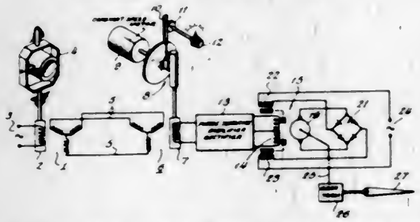
fluence of the field of said coil, a magnetic core member normally positioned remotely from said armature and movable toward said armature under the influence of the field of said coil to actuate said armature and means retarding movement of said core toward said armature to interpose a time delay between energization of said coil and the opening of said switch; an impedance member connected through said switches across the free ends of said running windings, a reversing switch having a line connection and a pair of running contacts selectively connectible to said line connection, and means connecting the free end of each of said running windings to one of said running contacts through one of said energizing coils.

2,661,452

SERVOMOTOR AND CONTROL SYSTEM THEREFOR

Robert S. Curry, Jr., Baldwin, and Percy Halpert, Hempstead, N. Y., assignors to The Sperry Corporation, a corporation of Delaware

Application January 29, 1948, Serial No. 5,154
20 Claims. (Cl. 318—229)



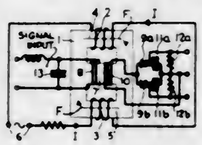
1. A motor comprising two separately excited windings, a controllable unidirectional current source connected to energize a first only of said windings, a potential source and saturable reactor means connected in circuit with the second winding of said motor to provide continuous excitation thereof, said saturable reactor including a winding connected in circuit with said controllable current source whereby the current in said second motor winding increases with an increase in current input to the first motor winding.

2,661,453

SATURABLE CORE TRANSFORMER SYSTEM

Arthur Victor Hemingway, Boreham Wood, and Peter Doughton Atkinson, Radlett, England

Application August 3, 1949, Serial No. 108,404
Claims priority, application Great Britain January 3, 1949
2 Claims. (Cl. 323—56)



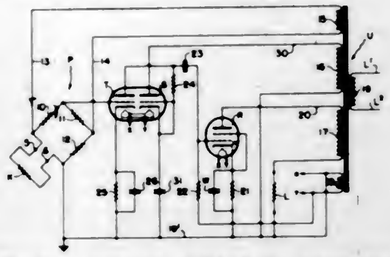
1. Apparatus for producing an electrical power output representative of the value of a direct current signal having a given maximum value, comprising a saturable core of a high permeability magnetic material providing a pair of magnetic circuits each including a common part of said core, a winding encircling said common core part and supplied with said signal, said winding having so few turns that said maximum signal value will not magnetically saturate the material in said core part, a second winding linking one of said magnetic circuits and adapted when energised with alternating current to produce a first alternating magnetic flux in said common core part, a third winding linking the other of said magnetic circuits and adapted when energised with alternating current to produce a second alternating magnetic flux in said common core part, said second and third windings each containing so many turns that when the respective energising currents exceed a given intensity said alternating magnetic fluxes will each have positive and negative peak values greatly exceeding the saturation value of the material in said common core part, means for supplying a first alternating current of an intensity exceeding said given intensity to said second winding, means for supplying to said third winding a second alternating current of an intensity exceeding said given intensity, the combination of said one magnetic circuit with said second winding energised by said first alternating current being arranged to produce in said common core part a first alternating magnetic flux having positive and negative peak values of a different magnitude from the positive and negtaive peak values of the second alternating magnetic flux produced in said common core part by the combination of said other magnetic circuit with said third winding energised by said second alternating current, said first and second alternating currents being in phase with each other but supplied in such senses that said first and second alternating fluxes oppose each other in said common core part, a fourth winding encircling said common core part to have an electric pulse output generated therein by changes in flux density in said core part, and electric pulse-utilizing means connected to receive the output from said fourth winding.

2,661,454

CONTROL APPARATUS

William H. Wannamaker, Jr., Flourtown, and James C. Mouzon, Wyndmoor, Pa., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application March 12, 1948, Serial No. 14,416
3 Claims. (Cl. 323—66)



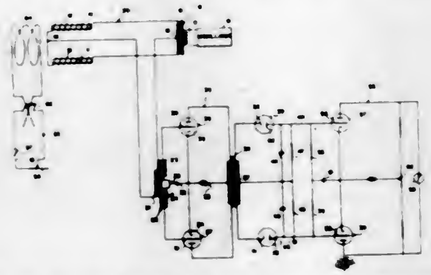
1. Electric control apparatus comprising in combination a load resistor, an electronic valve of the thyratron type having an anode, a cathode, and a control grid, a first pair of terminals adapted to be connected to a source of alternating current potential of a predetermined frequency, a connection between said cathode and a circuit point in the apparatus, conductors connecting said terminals and said load resistor in series between said anode and said circuit point and operative to apply an alternating current anode supply potential between said anode and said cathode, said valve being adapted to conduct current between said anode and said cathode during those of the positive half cycles of the anode supply potential, in which said anode is rendered positive with respect to said cathode, in which the potential between said control grid and said cathode is less negative than a predetermined critical value corresponding to the then-existing value of the potential between said anode and said cathode, a second pair of terminals adapted to be connected to a source of alternating current potential of said frequency, conductors connecting said second terminals between said control grid and said circuit point and operative to apply an alternating current bias potential between said control grid and said cathode, a device having an output circuit and adapted to be energized with alternating current of said frequency and adapted, when so energized, to produce automatically in said output circuit an alternating current output signal of a magnitude dependent upon the value of a quantity, means coupling said output circuit between said control grid and said circuit point and operative to apply said output signal between said control grid and said cathode, and means included in said connection and operative to cause the ones of said positive half cycles in which said valve conducts current to recur at a rate dependent upon the magnitude of said output signal, comprising a bias resistor connected between said cathode and said circuit point and a condenser connected in parallel with said bias resistor to develop a cathode bias potential across said bias resistor and said condenser when said valve is conductive, the resistance of said bias resistor and the capacity of said condenser being so chosen and related that the time required for said cathode bias potential to drop substantially to zero when said valve is non-conductive is at least as great as the time required for a plurality of successive cycles of said alternating current potentials, whereby the relation between said critical value and the resultant of said output signal, said bias potential, and said cathode bias potential applied between said control grid and said cathode determines the frequency with which said valve becomes conductive.

2,661,455

FLUX MEASURING SYSTEM

Alvin J. Tickner, Washington, D. C.

Application February 13, 1943, Serial No. 475,760
17 Claims. (Cl. 324—43)
(Granted under Title 35, U. S. Code (1952), sec. 266)



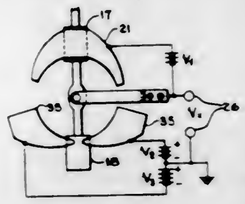
3. In direct magnetic field direction responsive systems, the combination with an electric bridge circuit, of means for supplying an alternating current to said circuit having a substantially symmetrical wave form, means connected to said circuit and responsive to said direct magnetic field for increasing the magnetic flux produced by said current during one half cycle and diminishing said flux during the succeeding half cycle thereby rendering the wave form of the voltage of said circuit unsymmetrical, said bridge circuit having constant resistance during any given cycle of said voltage whereby the integration of current in the output circuit of the bridge is zero, an electroresponsive indicating device, and means operatively coupled to said output circuit of the bridge and responsive to the peak voltages of said unsymmetrical voltage for energizing said device thereby to indicate the difference in the peak values of said voltages.

2,661,456

MEASURING INSTRUMENT WITH ELECTROSTATIC RETURN TORQUE

Carl Bosch, Arlington, N. J., assignor to Chatham Electronics Corporation, Newark, N. J., a corporation of New Jersey

Application December 1, 1949, Serial No. 130,468
1 Claim. (Cl. 324—109)



An electrostatic return force system for electrostatic voltmeters comprising, a pivoted moving system for indicating the polarity and value of a potential difference, a first conductor secured to the moving system, two stator conductors adjacent to the first conductor to form a double capacitor which increases in capacity as the moving system is turned in either direction from a zero position, means for applying a known potential between the two stator conductors, said potential supplied by an equally divided source with its center point connected to a ground terminal, a second conductor secured to the moving system, a stator conductor adjacent to the second conductor to form a second capacitor which decreases in capacity as the moving system is turned in either direction from a zero position, means for applying an unknown potential between the ground terminal and the first conductor to indicate the polarity and value of said unknown potential, and means for applying a known potential to the second capacitor to create a return force acting to turn the moving system toward a zero position.

2,661,457

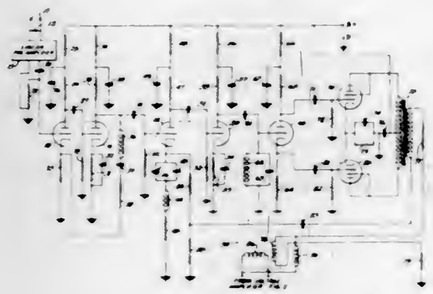
WATTMETER-VARMETER

Warren B. Boast, Ames, Iowa, and John D. Ryder, Champaign, Ill., assignors to Iowa State College Research Foundation, Inc., Ames, Iowa, a corporation of Iowa

Application March 4, 1950, Serial No. 147,622
10 Claims. (Cl. 324—142)

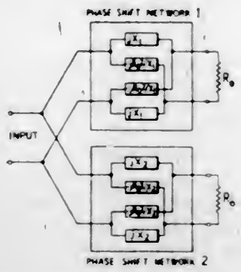
2. A combined wattmeter and varmeter for measuring watts or reactive circulating volt-amperes in an electrical network comprising first input means adapted for connection to the network for producing an output current proportional in amplitude and identical in phase to the voltage across the network, second input means adapted for connection to the network for producing an output current proportional in amplitude and identical in phase to the current flowing in the network, amplifier means for each of said input means, a pair of coils mounted for relative movement, circuit means connecting one ampli-

fier to one coil and the other amplifier to the other coil, each of said circuit means comprising a negative feedback loop containing a capacitor operative to produce series resonance around the loop at the frequency of the current flowing in the network, the feedback voltage being controlled by the current in the coil, a resistance-reactance phase-shifting network in one of said amplifiers



operative to effect a phase-shift of 90° in the applied voltage and to attenuate said voltage in amplitude, said amplifier containing also a resistance voltage-divider network operative to attenuate the applied voltage in amplitude to the same degree as said phase-shifting network, and manually controllable switch means operative at will to switch one or the other of said networks into the signal channel of said amplifier.

2,661,458
PHASE SPLITTING NETWORK
Wolja Saraga, Petts Wood, Orpington, England, assignor to Telephone Manufacturing Company Limited, London, England, a British company
Application June 21, 1950, Serial No. 169,303
Claims priority, application Great Britain June 23, 1949
4 Claims. (Cl. 333—6)



1. An electrical phase splitting network comprising a pair of input terminals, and two pairs of output terminals, said network serving to produce from an input applied to said input terminals an output at each of said pairs of output terminals, said outputs having a phase difference ψ which is approximately constant, and approximately equal to $2\tan^{-1} y_0$ where y_0 is a specified constant, over a wide frequency band extending from a lower frequency f_1 to a higher frequency f_2, and comprising two separate component phase-shifting networks having respectively phase shifts β_1 and β_2 such that $(\beta_1-\beta_2)$ is equal to ψ, the phase difference ψ being defined as a function of the normalized frequency $x=f/f_0$, where f is the frequency and $f_0=\sqrt{f_1 f_2}$, by the relation

$$y=\tan\tfrac{1}{2}\psi=sn\left(u\frac{k}{\Lambda},\lambda\right)$$

where the variable u is defined by the relation

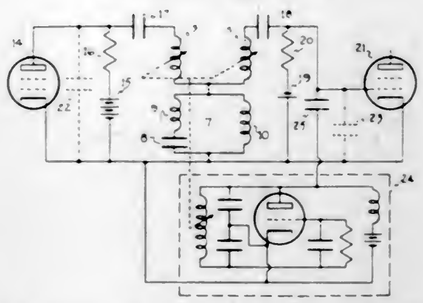
$$x=\sqrt{k}\,sn(u,k)$$

and sn is the symbol for the elliptic sine function, x being related to u by such a function with modulus k, and $\tan\frac{1}{2}\psi$ being defined by an elliptic sine function with modulus λ the modulus k being equal to the frequency ratio f_1/f_2 and the modulus λ being obtained from k by means of the relation

$$\frac{\Lambda}{\Lambda_1}=n\cdot\frac{k}{k_1}$$

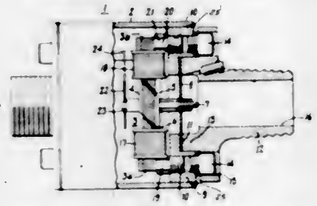
where Λ,Λ_1, k, k_1, are the real quarter periods of elliptic sine functions with moduli λ, λ_1, k, k_1 respectively, and $\lambda^1=+\sqrt{1-\lambda^2}$ and $k^1=\sqrt{1-k^2}$, and where n indicates the chosen order of approximation of ψ to $2\tan^{-1} y_0$ and is an integral number equal to 3, 4, 5 etc., the said approximation being a Tchebyscheff approximation over the range $x_1=f_1/f_0$ to $x_2=f_2/f_0$, where $f_0=\sqrt{f_1 f_2}$, the said component phase shift networks consisting of the equivalent, so far as their phase-frequency characteristic is concerned, of at least three elementary constant resistance phase shift networks, the total number of said elementary networks being n, and their normalized series arm reactances being $\bar{a}x$, where $\bar{a}=\pm 1/x_j$ and x_j are the roots of the equation $y=+1$, and where the positive or negative sign in the expression $\pm 1/x_j$ is such that $\bar{a}$ is always positive, the component phase splitting networks being composed one by elementary networks, in tandem, corresponding to the positive sign in said expression, and the other network by the elementary networks corresponding to the negative sign in said expression.

2,661,459
BAND PASS FILTER CIRCUIT
Fred W. Schmidt, Jr., Cedar Grove, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application September 29, 1948, Serial No. 51,728
7 Claims. (Cl. 333—70)



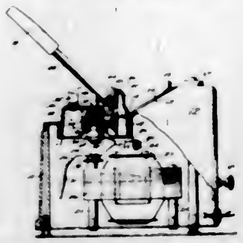
5. A tuning circuit tunable over a predetermined range of frequencies and having a substantially fixed bandwidth of response, comprising two tunable resonant circuits each having inductive and capactive reactance elements connected in series, one of said reactance elements in each of said circuits being variable, and a two-terminal coupling network having one terminal connected jointly to said tunable circuits to provide a common electrical path for currents in said tunable circuits, said coupling network being parallel resonant below and series resonant above the tuning range of said tuning circuit.

2,661,460
TRANSIENT PRESSURE DETECTOR
John W. Matthews, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 12, 1950, Serial No. 173,446
2 Claims. (Cl. 336—30)



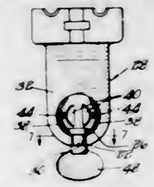
1. In a test head for producing by electromagnetic means a signal proportional to pressure, a longitudinally extending magnetic structure comprising two aligned end portions mounted in spaced relationship and a central portion mounted between said end portions and spaced therefrom to provide air gaps therewith, all of the confronting ends of said central and end portions presenting surfaces substantially parallel to each other and inclined at a same oblique angle to the longitudinal axis of said structure, an inductance coil wound on each of said end portions, and pressure responsive means for moving said central portion transverse to the longitudinal axis of said structure simultaneously to increase one of said air gaps and to decrease the other of said air gaps thereby to produce in said two end portions a differential magnetic permeability varying in accord with the extent of said movement.

2,661,461
DEAD-MAN CIRCUIT CONTROL UNIT FOR TRAIN TRANSFORMERS
William R. Haury, Hamden, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Application May 23, 1951, Serial No. 227,897
16 Claims. (Cl. 336—105)



1. A handle operated voltage controller automatically operative to break the circuit of its transmitted electric current upon manual release of its voltage controlling handle, comprising in combination with said handle and circuit, a series of successively contactable separately insulated current taps in said circuit, unitary framework carrying said taps, mechanism mounting said handle movably on said framework so as to permit said handle to be swung selectively up and down and from side to side, a current take-off movable in a voltage varying direction to sweep across said taps in contactable relation therewith, and mechanism operatively coupling said handle and said take-off in a manner to convert side-to-side motion of said handle into movement of said take-off in said voltage varying direction and in a manner to convert up and down motion of said handle into movement of said take-off in directions to leave and return into contactable relation to said series of taps.

2,661,462
KEY MEMBER TO PREVENT ACCIDENTAL RELEASE OF A FLUORESCENT TUBE FROM ITS SOCKET
Lester J. Sklenar, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application March 6, 1951, Serial No. 214,180
4 Claims. (Cl. 339—54)



1. A one-piece quickly operable safety key for use with fluorescent light socket fixtures and made of a dielectric material, said key including a shank, a resilient head at one end thereof, finger gripping means associated with said head to facilitate rotation of said shank, an elongated holding lug spaced axially from said head and extending radially outwardly in opposite directions from said shank, and means on the under surface of said head extending in a direction toward said holding lug adapted to engage a complementary light socket fixture so as to resist rotation of said key when mounted in locking position on said socket, said resilient head and said elongated holding lug coacting to clampingly engage opposed surfaces of a complementary socket fixture.

2,661,463
BATTERY TERMINAL CLAMP
John M. Johnson, Shawnee, Kans., assignor of one-half to Ratio R. Beane, Kansas City, Mo.
Application September 20, 1951, Serial No. 247,457
1 Claim. (Cl. 339—226)



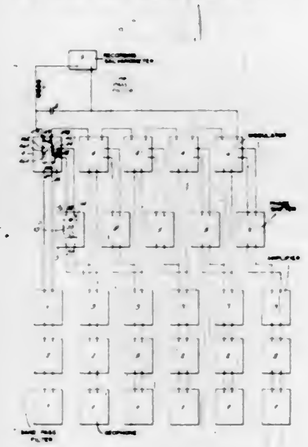
A battery terminal clamp comprising a split arm fitting with registering holes therein, one of said holes internally threaded, a bolt adapted to draw the arms into electrical contact with the battery terminal, said bolt threaded to engage the threaded hole in one of said arms, means operable with the unscrewing of the bolt adapted to exert an expanding force against the inside surface of the unthreaded arm to spread the arms, said means comprising a ring seized to the bolt outside the threaded arm, a pin having an enlarged head, said pin piercing the threaded arm adjacent the bolt with its opposite and bearing against the inside surface of the unthreaded arm, said pin head engaged by the ring seized to the bolt on unscrewing of the bolt to spread said arms.

2,661,464

METHOD AND APPARATUS FOR RECORDING DIP OF GEOLOGICAL STRATA

Alfred Wolf, Tulsa, Okla., assignor to Geophysical Research Corporation, New York, N. Y., a corporation of New Jersey

Application April 8, 1949, Serial No. 86,248
6 Claims. (Cl. 340—15)



1. Seismic prospecting apparatus including a plurality of geophones adapted to be arranged at spaced intervals in a straight line aligned with a shot point, a modulator for each of said geophones excepting the last one thereof with the carrier input of each of said modulators connected with the output of the one of said geophones associated therewith, a 90° phase shifter for each of said geophones excepting the first one thereof with the signal input of each of said modulators connected through the modulator of each geophone connected with the output of the following geophone through the phase shifter associated with the latter, a recording indicator with the outputs of said modulators connected therewith in series with each other, and a filter for said indicator and through which said modulator outputs are connected and which passes only frequencies lower than the usual seismic reflection vibration frequencies.

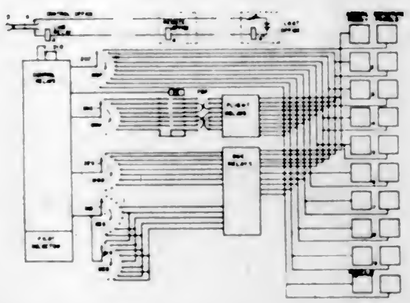
2,661,465

ARRIVAL AND DEPARTURE TRANSPORTATION INDICATOR SYSTEM

Imre Molnar, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application September 13, 1952, Serial No. 309,420
14 Claims. (Cl. 340—23)

1. In a transportation indicator system, a plurality of display panels, flight lamp groups in each panel for visually displaying digits corresponding to any flight number, schedule lamp groups in each panel for visually displaying digits corresponding to the scheduled time of arrival of any flight, destination lamps in each panel for visually indicating destination stopping points for any flight, lamp group relays individual to each lamp group in each panel for controlling the lamps in its lamp group to display digits, panel relays in each panel for controlling said destination lamps, sets of flight relays common to all said panels, each set corresponding to a particular flight, means for selecting a particular one of said display panels, means operative in response to the dialling of the digits corresponding to a flight number for operating a corresponding set of flight relays, circuits completed by the operated set of flight relays for operating said lamp group relays in



only said selected panel to control said lamp groups to display said flight number and the scheduled time of arrival of said flight, and other circuits completed by said operated set of flight relays for operating certain ones of said panel relays in only said selected panel to light destination lamps corresponding to the stopping points of said flight.

2,661,466

TRANSMITTING AND RECEIVING APPARATUS AND METHOD FOR ELECTROMAGNETIC PROSPECTING

William M. Barret, Shreveport, La., assignor to Engineering Research Corporation, Shreveport, La., a corporation of Louisiana

Original application April 19, 1943, Serial No. 483,638. Divided and this application March 26, 1945, Serial No. 584,960
9 Claims. (Cl. 343—5)



1. In a system for the unidirectional transmission of electromagnetic waves into the earth, an array comprising a plurality of collinear pairs of elongated energizers whose fixed lengths approximate an odd quarter-wave multiple of the wave length in the earth of the electromagnetic waves to be transmitted by said energizers, said energizers being placed substantially below and approximately parallel to the air-earth interface and separated approximately one-half wave length between adjacent pairs, means for tuning said energizers to the frequency of said waves, said tuning means being adapted to varying the electrical lengths of said energizers without modifying their fixed physical lengths, means for equalizing the currents flowing in each collinear pair of said energizers, means for coupling said energizers to a transmitter, and means for controlling the relative phase of the currents flowing in each collinear pair of said energizers.

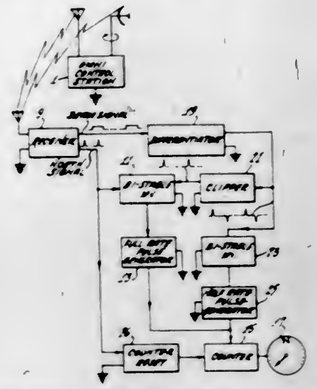
2,661,467

POSITION LOCATING SYSTEM

Loren F. Jones, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application October 19, 1951, Serial No. 252,142
15 Claims. (Cl. 343—106)

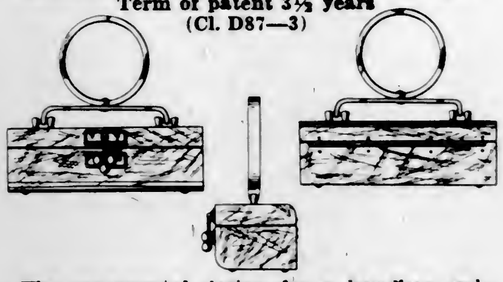
1. The method of determining the angular disposition of a mobile station with respect to a reference direction from a point, comprising the steps of radiating a signal from said point in a directional beam, rotating said beam about said point at a predetermined rate, omnidirectionally radiating a signal at selected times at which said beam passes through said reference direction, initiating a time count at a rate determined by said beam rotation on reception at said station of certain ones of said omnidirectional signals, counting at said rate until said directional beam is first received and utilized at said station, counting at half rate until said directional beam signal is last received and utilized at said station and thereafter ceasing to count, the count between the reception of said omnidirectional signal and the last utilization of said directional beam signal being a measure



of the angular disposition of said mobile station with respect to said reference direction.

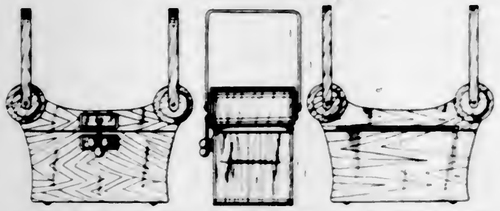
DESIGNS

170,958
HANDBAG
Sheldon J. Aberman, Miami Beach, Fla.
Application August 12, 1953, Serial No. 26,420
Term of patent 3½ years
(Cl. D87—3)



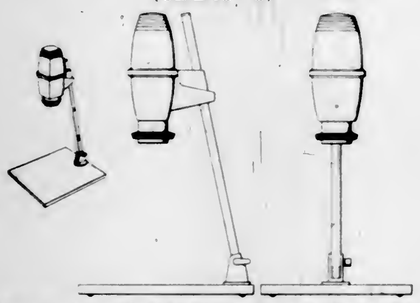
The ornamental design for a handbag, substantially as shown.

170,959
HANDBAG
Sheldon J. Aberman, Miami Beach, Fla.
Application August 12, 1953, Serial No. 26,421
Term of patent 3½ years
(Cl. D87—3)



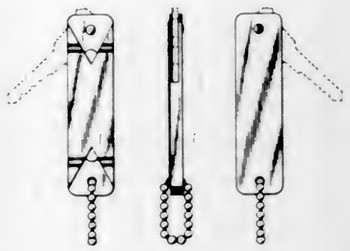
The ornamental design for a handbag, substantially as shown.

170,960
PHOTOGRAPHIC ENLARGER OR SIMILAR ARTICLE
Robert M. Barth, Pelham Manor, and Harold G. Bergstrom, New Rochelle, N. Y., assignors to The F R Corporation, New York, N. Y., a corporation of New York
Application July 29, 1953, Serial No. 26,179
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a photographic enlarger or similar article, as shown.

170,961
KEY HOLDER OR SIMILAR ARTICLE
Matthew B. Blish, Oak Park, Ill.
Application July 6, 1953, Serial No. 25,802
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a key holder or similar article, substantially as shown and described.

170,962
FRONT FOR SUNGLASS FRAMES OR THE LIKE
Jack Bloch, Leominster, Mass., assignor to Foster Grant Co. Inc., Leominster, Mass., a corporation of Massachusetts
Application July 16, 1953, Serial No. 25,966
Term of patent 14 years
(Cl. D57—1)



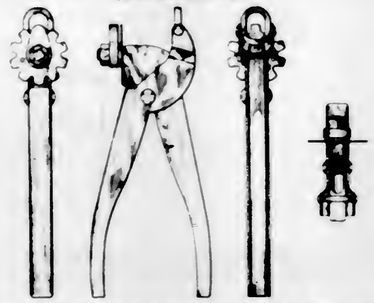
The ornamental design for a front for sunglass frames or the like, substantially as shown and described.

170,963
EARRING OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application July 21, 1953, Serial No. 26,060
Term of patent 7 years
(Cl. D45—9)



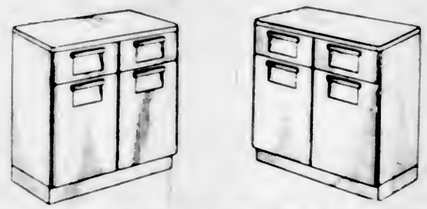
The ornamental design for an earring or similar article, substantially as shown.

170,964
SPARK PLUG GAPPING TOOL
James T. Clark, Fort Morgan, Colo.
Application June 8, 1953, Serial No. 25,359
Term of patent 14 years
(Cl. D54—13)



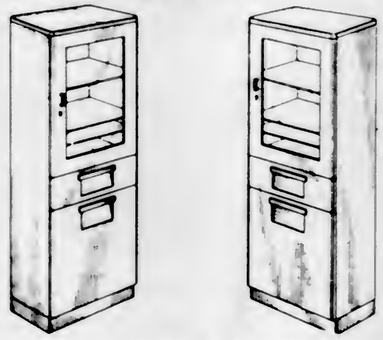
The ornamental design for a spark plug gapping tool, as shown and described.

170,965
PHYSICIAN'S UTILITY CABINET
Earl W. Claus, Kirkwood, Mo., assignor to Shampaine Company, St. Louis, Mo., a corporation of Missouri
Application March 19, 1953, Serial No. 24,112
Term of patent 14 years
(Cl. D33—19)



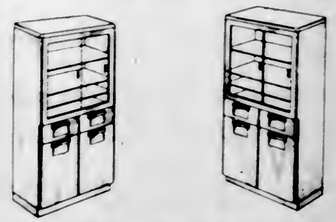
The ornamental design for a physician's utility cabinet, substantially as shown and described.

170,966
PHYSICIAN'S INSTRUMENT CABINET
Earl W. Claus, Kirkwood, Mo., assignor to Shampaine Company, St. Louis, Mo., a corporation of Missouri
Application March 19, 1953, Serial No. 24,115
Term of patent 14 years
(Cl. D33—19)



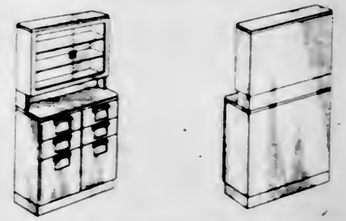
The ornamental design for a physician's instrument cabinet, substantially as shown and described.

170,967
PHYSICIAN'S INSTRUMENT CABINET
Earl W. Claus, Kirkwood, Mo., assignor to Shampaine Company, St. Louis, Mo., a corporation of Missouri
Application March 19, 1953, Serial No. 24,117
Term of patent 14 years
(Cl. D33—19)



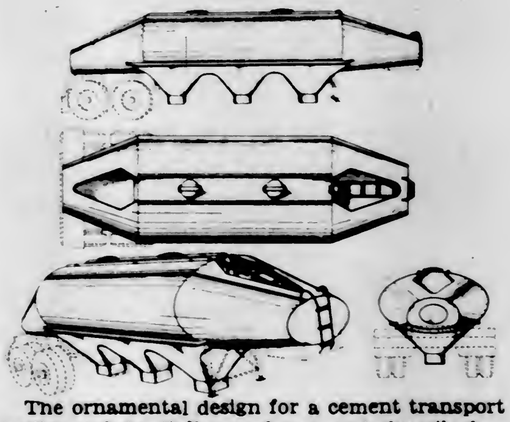
The ornamental design for a physician's instrument cabinet, substantially as shown and described.

170,968
PHYSICIAN'S INSTRUMENT CABINET
Earl W. Claus, Kirkwood, Mo., assignor to Shampaine Company, St. Louis, Mo., a corporation of Missouri
Application March 19, 1953, Serial No. 24,120
Term of patent 14 years
(Cl. D33—19)



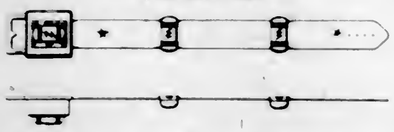
The ornamental design for a physician's instrument cabinet, substantially as shown.

170,969
CEMENT TRANSPORT TRAILER
Carroll C. Clough, Seattle, Wash.
Application August 17, 1953, Serial No. 26,476
Term of patent 14 years
(Cl. D14—3)



The ornamental design for a cement transport trailer, substantially as shown and described.

170,970
BELT
Vladimir A. D'Arbeloff, Riverside, Conn.
Application March 19, 1953, Serial No. 24,123
Term of patent 7 years
(Cl. D3—10)



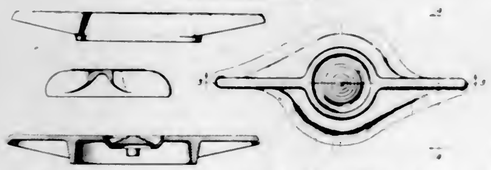
The ornamental design for a belt, substantially as shown.

170,971
CLOSURE FOR TOOTHPASTE TUBES OR THE LIKE
Christy M. Del Mas, New York, N. Y., assignor to Michael P. Grace, New York, N. Y.
Application December 12, 1952, Serial No. 22,685
Term of patent 14 years
(Cl. D58—26)



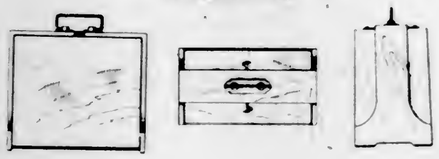
The ornamental design for a closure for toothpaste tubes or the like, as shown.

170,972
WHEEL TRIM HUBCAP
James K. Gaylord, Chicago, Ill., assignor to Gaylord Products, Incorporated, Chicago, Ill., a corporation of Delaware
Application April 1, 1953, Serial No. 24,295
Term of patent 14 years
(Cl. D14—30)

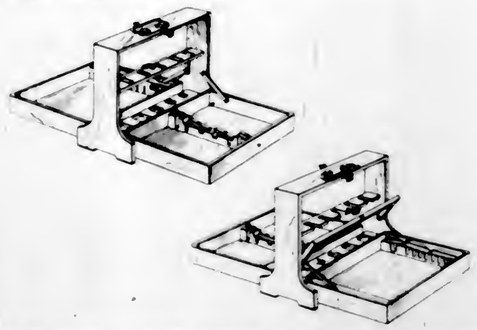


The ornamental design for a wheel trim hub cap, substantially as shown.

170,973
CUTLERY CASE OR SIMILAR ARTICLE
Neal Goldman, New York, N. Y., assignor to The International Silver Co., Meriden, Conn., a corporation of Connecticut
Application October 13, 1952, Serial No. 21,819
Term of patent 14 years
(Cl. D58—12)

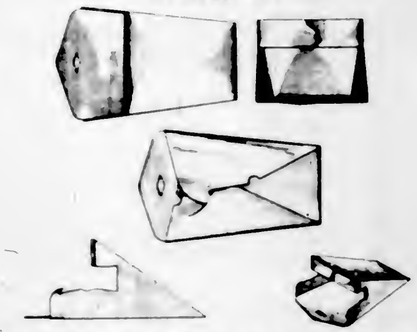


170,973—Continued



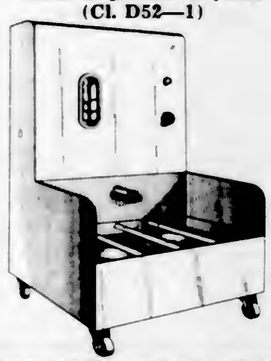
The ornamental design for a cutlery case or similar article, as shown and described.

170,974
COMBINATION DISPENSER AND DISPOSAL BOX
Marie L. Gorham, Santa Barbara, Calif.
Application April 17, 1953, Serial No. 24,560
Term of patent 14 years
(Cl. D58—12)



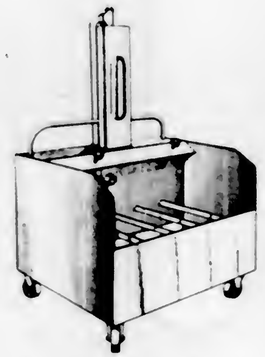
The ornamental design for a combination dispenser and disposal box, substantially as shown.

170,975
RADIATOR FLOW TEST MACHINE
James V. Grasso, Omaha, Nebr., assignor to Inland Manufacturing Company, Omaha, Nebr., a corporation of Nebraska
Application October 18, 1952, Serial No. 21,889
Term of patent 14 years
(Cl. D52—1)



The ornamental design for a radiator flow test machine, substantially as shown and described.

170,976
FLOW TEST MACHINE FOR RADIATORS
James V. Grasso, Omaha, Nebr., assignor to Inland Manufacturing Company, Omaha, Nebr., a corporation of Nebraska
Application October 18, 1952, Serial No. 21,890
Term of patent 14 years
(Cl. D52—1)



The ornamental design for a flow test machine for radiators, substantially as shown and described.

170,977
WATCH BAND OR SIMILAR ARTICLE
Joseph L. Hajos, Bronx, N. Y., and Kurt Speck, Palisades Park, N. J., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J., a corporation of New Jersey
Application May 5, 1953, Serial No. 24,858
Term of patent 7 years
(Cl. D45—4)



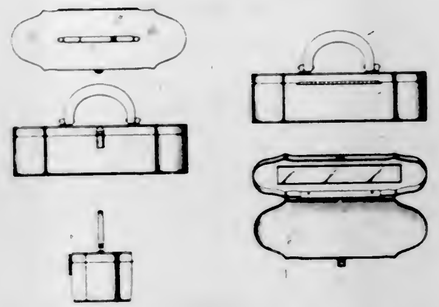
The ornamental design for a watch band or similar article, substantially as shown and described.

170,978
WATCH BAND OR SIMILAR ARTICLE
Joseph L. Hajos, Bronx, N. Y., and Kurt Speck, Palisades Park, N. J., assignors to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J., a corporation of New Jersey
Application May 5, 1953, Serial No. 24,859
Term of patent 7 years
(Cl. D45—4)



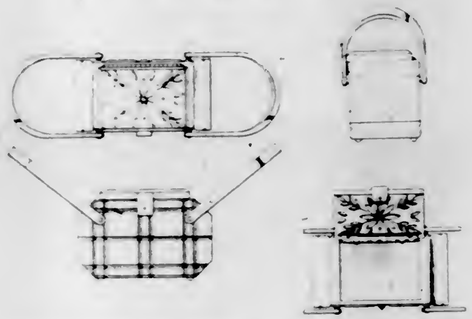
The ornamental design for a watch band or similar article, substantially as shown and described.

170,979
HANDBAG
William H. Hardy, River Edge, N. J.
Application August 7, 1953, Serial No. 26,349
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a handbag, as shown.

170,980
HANDBAG
William H. Hardy, River Edge, N. J.
Application September 28, 1953, Serial No. 26,968
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a handbag, substantially as shown and described.

170,981
PAIR OF BINOCULARS
David Kane, San Antonio, Tex.
Application August 31, 1953, Serial No. 26,631
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a pair of binoculars, as shown.

170,982
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 3, 1953, Serial No. 26,219
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,983
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 3, 1953, Serial No. 26,223
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

170,984
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 3, 1953, Serial No. 26,224
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

170,985
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 3, 1953, Serial No. 26,225
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

170,986
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 3, 1953, Serial No. 26,226
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

170,987
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 3, 1953, Serial No. 26,227
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

170,988
LINK CHAIN FOR A BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 3, 1953, Serial No. 26,228
Term of patent 7 years
(Cl. D45—4)



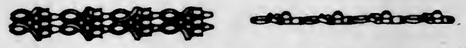
The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,989
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,279
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,990
LINK CHAIN FOR A BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,282
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,991
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,314
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,992
LINK CHAIN FOR A NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,315
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,993
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,321
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,994
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 6, 1953, Serial No. 26,322
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,995
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 10, 1953, Serial No. 26,379
Term of patent 7 years
(Cl. D45—4)



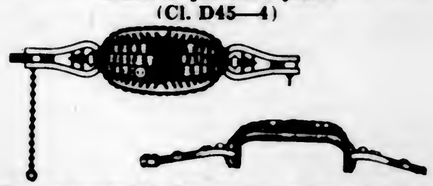
The ornamental design for a bracelet or the like, substantially as shown.

170,996
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 10, 1953, Serial No. 26,380
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

170,997
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 10, 1953, Serial No. 26,381
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,998
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 10, 1953, Serial No. 26,387
Term of patent 7 years
(Cl. D45—16)



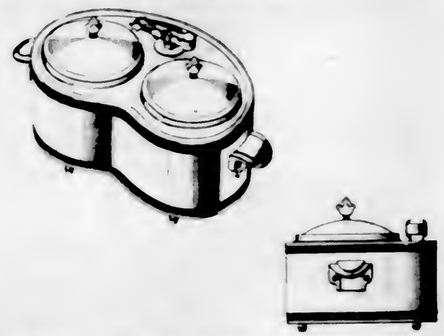
The ornamental design for a necklace or the like, substantially as shown and described.

170,999
BAR TOOL
Michael J. La Forte, Park Ridge, Ill., assignor to Vaughan Mfg. Co., Chicago, Ill., a corporation of Illinois
Application January 4, 1952, Serial No. 17,933
Term of patent 14 years
(Cl. D44—29)



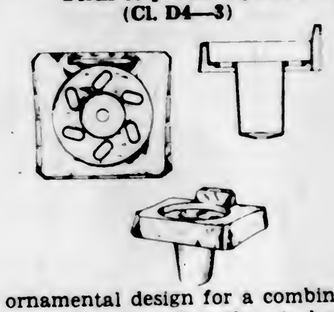
The ornamental design for a bar tool, substantially as shown and described.

171,000
COMBINED FOOD SERVER AND TONGS THEREFOR
Louis Levine, New York, N. Y.
Application September 6, 1952, Serial No. 21,365
Term of patent 14 years
(Cl. D44—1)



The ornamental design for a combined food server and tongs therefor, substantially as shown and described.

171,001
COMBINED DRINKING CUP, TOOTHBRUSH, AND TOOTHPASTE HOLDER
Robert Mayer, New York, N. Y., assignor to Herman H. Fox, New York, N. Y.
Application July 14, 1953, Serial No. 25,938
Term of patent 7 years
(Cl. D4—3)



The ornamental design for a combined drinking cup, toothbrush and toothpaste holder, substantially as shown.

171,002
CHAIR
Charles P Molla, New Hyde Park, N. Y.
Application June 12, 1952, Serial No. 20,151
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a chair, as shown.

171,003
CHAIR
Charles P. Molla, New Hyde Park, N. Y.
Application June 12, 1952, Serial No. 20,152
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a chair, as shown.

171,004
COMBINED WRIST WATCH CASE AND A WATCH BAND
Paul G. Nolin, Cohoes, N. Y.
Application February 13, 1953, Serial No. 23,603
Term of patent 3½ years
(Cl. D45—4)



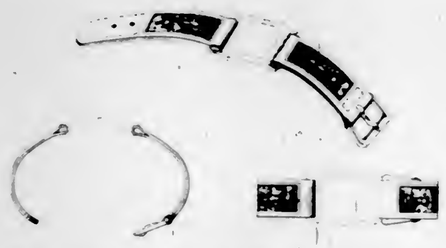
The ornamental design for a combined wrist watch case and a watch band, as shown and described.

171,005
COMBINED WRIST WATCH CASE AND WATCH BAND
Paul G. Nolin, Cohoes, N. Y.
Application February 13, 1953, Serial No. 23,604
Term of patent 3½ years
(Cl. D45—4)



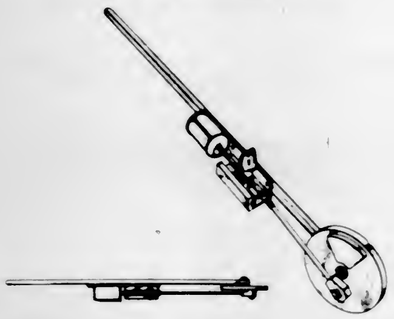
The ornamental design for a combined wrist watch case and watch band, as shown and described.

171,006
COMBINED WATCH CASE AND WATCH BAND
Paul G. Nolin, Cohoes, N. Y.
Application February 13, 1953, Serial No. 23,605
Term of patent 7 years
(Cl. D45—4)



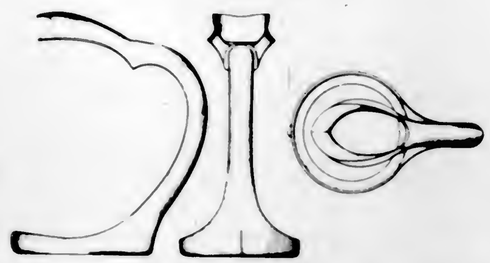
The ornamental design for a combined watch case and watch band, as shown and described.

171,007
TRUNDLE TOY
John A. Peabody, Sr., Auburn, Wash.
Application September 26, 1952, Serial No. 21,601
Term of patent 3½ years
(Cl. D34—15)



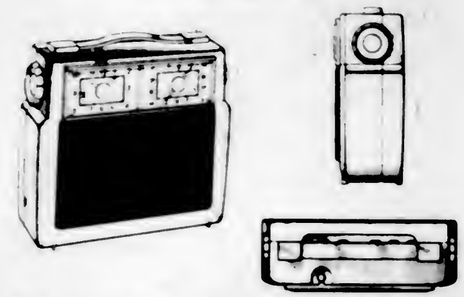
The ornamental design for a trundle toy, as shown.

171,008
BOTTLE HOLDER
James A. Peterson, Yorkville, Ill.
Application July 9, 1953, Serial No. 25,860
Term of patent 14 years
(Cl. D58—26)



The ornamental design for a bottle holder, as shown.

171,009
PORTABLE RADIO
Jean Otis Reinecke, Oak Park, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application May 21, 1953, Serial No. 25,135
Term of patent 7 years
(Cl. D56—4)



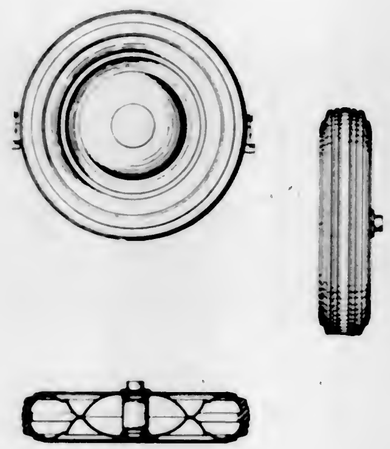
The ornamental design for a portable radio, substantially as shown and described.

171,010
BOTTLE OR SIMILAR ARTICLE
Eugene O. Rioux, New York, N. Y., assignor to General Flexware Corp., New York, N. Y., a corporation of New York
Application April 8, 1953, Serial No. 24,403
Term of patent 3½ years
(Cl. D58—8)



The ornamental design for a bottle or similar article, as shown.

171,011
COASTER WAGON WHEEL
Paul H. Rosenberg, Lansing, Mich., assignor to Reo Motors, Inc., Lansing, Mich., a corporation of Michigan
Application December 26, 1951, Serial No. 17,823
Term of patent 14 years
(Cl. D34—15)



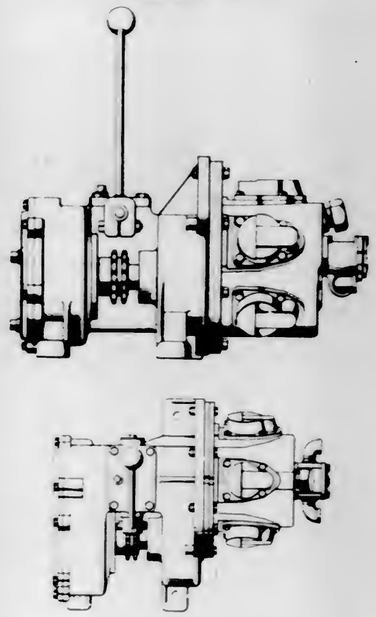
The ornamental design for a coaster wagon wheel, as shown and described.

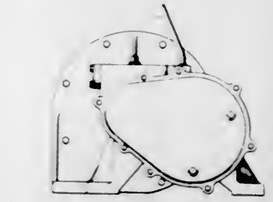
171,012
SKIRT PORTION FOR A SHUTTLECOCK OR SIMILAR ARTICLE
Louis Samets, Westport, Conn.
Application October 3, 1952, Serial No. 21,676
Term of patent 14 years
(Cl. D34—5)

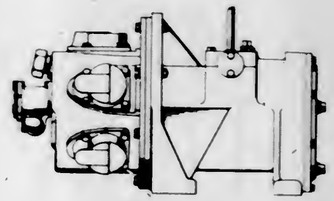


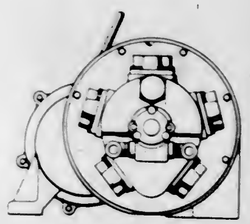
The ornamental design for a skirt portion for a shuttlecock or similar article, substantially as shown and described.

171,013
MOTOR-TRANSMISSION UNIT
Daniel M. Schwartz, Salt Lake City, Utah, assignor to The Eimco Corporation, Salt Lake City, Utah, a corporation of Utah
Application February 4, 1953, Serial No. 23,449
Term of patent 14 years
(Cl. D77—1)



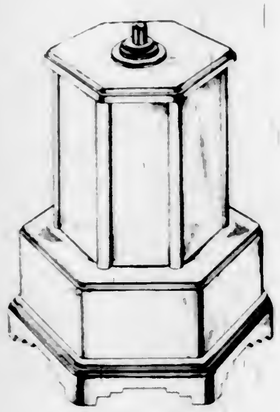






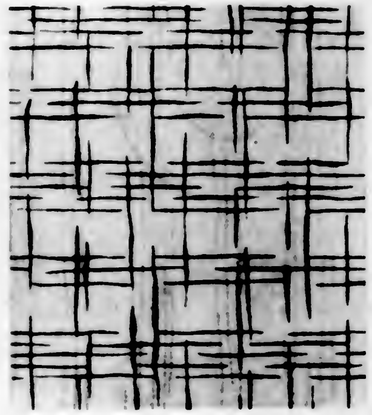
The ornamental design for a motor-transmission unit, substantially as shown.

171,014
DISPENSER FOR CIGARETTES AND THE LIKE
Leo R. Slaton, Chicago, Ill., assignor to Swiss Harmony Inc., Chicago, Ill., a corporation of Illinois
Application July 31, 1953, Serial No. 26,212
Term of patent 14 years
(Cl. D85—2)



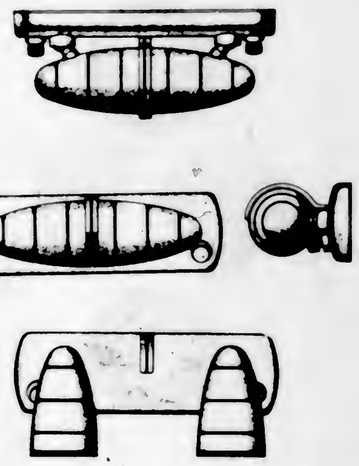
The ornamental design for dispenser for cigarettes and the like, as shown.

171,015
SHEET OF DECORATIVE MATERIAL OR THE LIKE
Clifford Brooks Stevens, Milwaukee, Wis., assignor to The Formica Company, a corporation of Ohio
Application December 31, 1952, Serial No. 22,951
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a sheet of decorative material or the like, as shown.

171,016
LAMP
Arnold Stiller, Elwood, near Melbourne, Victoria, Australia
Application March 23, 1953, Serial No. 24,149
Term of patent 14 years
(Cl. D48—4)



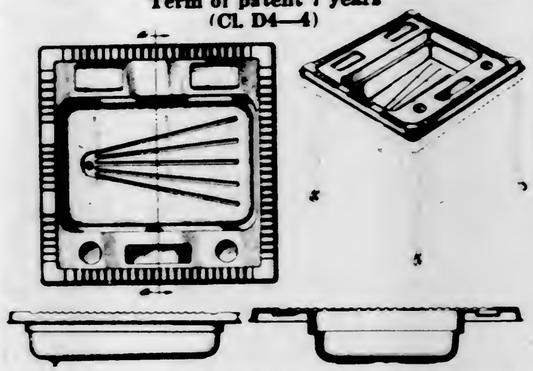
The ornamental design for a lamp, substantially as shown.

171,017
TABLE
Franz Wagner, Evanston, Ill., assignor to Arvin Industries, Inc., Columbus, Ind., a corporation of Indiana
Application September 27, 1952, Serial No. 21,613
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a table, as shown.

171,018
INFANT'S BATHTUB
Robert H. Zoffer, New York, N. Y.
Application August 6, 1953, Serial No. 26,330
Term of patent 7 years
(Cl. D4—4)



The ornamental design for an infant's bathtub, as shown and described.

December 8, 1953 Volume 677 Number 2

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business Nov. 20, 1953

Total number of patent applications awaiting action, 103,637. Date of oldest new application, January 23, 1953; date of oldest amended application, January 15, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	3-11-53	3-6-53	1365
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-4-53	3-7-53	1233
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus) Heating; Coating or Plastic Composition (part).	3-23-53	3-23-53	1958
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	3-4-53	3-2-53	1527
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	2-24-53	2-26-53	1362
6. SURLE, H., Carbon Chemistry (part)	1-23-53	1-21-53	2160
7. GONSALVES, J. E., Optics; Photography (part)	2-13-53	2-19-53	1839
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	3-16-53	3-16-53	1449
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	3-2-53	2-24-53	1211
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	3-12-53	3-10-53	1210
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	2-25-53	2-27-53	1808
13. BEALL, T. E., Gear Cutting, Milling, Planting; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	2-16-53	2-16-53	1246
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	3-18-53	3-13-53	1455
15. BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	2-25-53	2-24-53	1748
16. LOVEWELL, N. N., Television; Telephony; Recorders	1-28-53	1-29-53	1807
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	2-27-53	2-26-53	1454
18. KURZ, J. A., Power Plants; Speed Responsive Devices	2-27-53	2-16-53	1394
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	2-9-53	2-3-53	1112
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	3-25-53	3-23-53	1208
21. MADER, R. C., Textiles	3-4-53	3-4-53	1267
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	3-13-53	3-13-53	1170
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	2-19-53	2-20-53	1012
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles Ironing or Smoothing	4-28-53	4-29-53	1047
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	2-24-53	2-25-53	1411
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	3-6-53	3-6-53	1994
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	3-16-53	3-11-53	1265
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	3-13-53	3-9-53	1420
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	3-4-53	2-27-53	1289
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	5-5-53	5-5-53	1433
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e.g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	2-6-53	2-2-53	1879
32. BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	3-26-53	3-24-53	1356
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	2-27-53	2-24-53	1984
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	2-11-53	2-16-53	1292
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	3-23-53	3-12-53	1421
36. McFADYEN, A. D., Measuring and Testing	3-13-53	3-19-53	1067
37. LEVY, M. L., Electricity-Switches, Welding, Heating	3-19-53	3-19-53	1689
38. MARMELSTEIN, N., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	2-5-53	2-9-53	2044
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	4-6-53	4-6-53	1536
40. DRUMMOND, E. J., Receptacles (part); Packages	3-16-53	3-12-53	2039
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	3-16-53	3-17-53	1702

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	2-20-53	2-20-53	1762
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	2-17-53	2-19-53	1946
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	3-3-53	3-6-53	1299
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	2-24-53	2-16-53	1165
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	3-9-53	3-6-53	1578
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	2-17-53	2-18-53	1728
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	3-9-53	3-9-53	1442
50. BENGEL, W. G., Synthetic Resins; Rubber	4-27-53	4-27-53	1958
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices Modulators; Music; Acoustics.	3-16-53	3-16-53	1659
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	3-31-53	4-1-53	1972
53. REYNOLDS, E. R., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	2-26-53	2-26-53	1576
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	2-27-53	3-9-53	1914
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-26-53	2-13-53	1648
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	4-13-53	4-6-53	1315
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	3-24-53	3-20-53	1806
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	2-24-53	2-24-53	1359
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-9-53	3-9-53	1503
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	4-7-53	4-14-53	893
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	3-18-53	3-5-53	1854
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	2-16-53	2-5-53	2009
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	3-5-53	3-6-53	1696
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	3-26-53	3-16-53	820
67. KRAFET, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	3-18-53	3-16-53	1565
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44.			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	3-9-53	3-6-53	1591
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	1-27-53	1-15-53	3735
DESIGNS: A—BREHM, G. L., Industrial Arts	6-22-53	6-29-53	1116
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	6-25-53	7-23-53	854

Number of new applications received week ending October 30, 1953

PATENTS 1,429 | DESIGNS 102 | REISSUES 3 | TOTAL 1,534

Total number of trade-mark applications awaiting action (including renewals and republications) 11,762.
Date of oldest new application, June 19, 1953; date of oldest amended application, June 15, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	6-23-53	6-22-53	2856
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	6-19-53	6-20-53	2871
Renewals (All Classes)	9-18-53	10-21-53	407
Republications (All Classes)	9-16-53	10-23-53	266
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	6-22-53	6-24-53	2610
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	6-25-53	6-15-53	2752

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE I. LEWIS CIGAR MFG. CO.

No. 5945. Decided June 24, 1953

[205 F.2d 204; 98 USPQ 265]

1. TRADE-MARKS—SURNAME—CONGRESS HELD NOT TO HAVE INTENDED A DECISIVE DISTINCTION BETWEEN INITIALS AND GIVEN NAMES.

Held that the Patent Office adopted an inconsistent standard in holding "J. C. Higgins" not registrable as "primarily merely a surname" (section 2(e) of the act of 1946) in *Ex parte Sears, Roebuck & Co.*, 87 USPQ 400 (affirmed—U. S. App. D. C.—, 96 USPQ 360) while allowing registration of "Andre Dallioux," *Ex parte Dallioux*, 83 USPQ 262, since "Dallioux" is the dominant part of the latter mark in the same manner that "Higgins" is the dominant feature of the former and it is doubted that Congress intended such a decisive distinction to be made between initials and given names.

2. SAME—SECTION 2(e) OF ACT OF 1946—"MERELY" HELD SYNONYMOUS WITH "ONLY."

Held that the word "merely" in the phrase "primarily merely a surname" in section 2(e) of the act of 1946 is synonymous with "only."

3. SAME—SAME—ADDITION OF "& CO.'S" TO A SURNAME DOES NOT DISTINGUISH IT.

Held that the addition to a surname of the expression "& Co.'s," whether it be in the abbreviated and possessive form or in the usual form, cannot be held to distinguish or relate to anything except the surname, and does not remove the latter, therefore, from the category of "primarily merely a surname."

4. SAME—REGISTRABILITY—"S. SEIDENBERG & CO.'S."

The decision of the Commissioner refusing to register "S. Seidenberg & Co.'s," as primarily merely a surname within the meaning of section 2(e) of the act of 1946, is affirmed.

APPEAL from the Patent Office. Serial No. 543,497.

AFFIRMED.

Hauff & Warland, and *James M. Mason* for appellant.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

WORLEY, *J.*:

This is an appeal from the decision of the Commissioner of Patents affirming the rejection by the Examiner of the application for registration filed December 5, 1947, under the provisions of section 2(e) of the Lanham Act (Trade-Mark Act of 1946), of the notation "S. Seidenberg & Co's." Registration was denied on the ground that the mark sought to be registered was primarily merely a surname within the meaning of the involved section.

The pertinent portions of that section read as follows:

Sec. 2. Trade-marks registrable on the Principal Register

No trade-mark by which the goods of the applicant may be distinguished from the goods of others shall be refused registration on the Principal Register on account of its nature unless it— * * * (e) Consists of a mark which, * * * (3) is primarily merely a surname. [60 Stat. 428, 15 U. S. C., sec. 1052.]

The record reflects that the mark has been used continuously by the applicant and its predecessors since prior to 1899; that it was originally registered under the Trade-Mark Act of 1905, as amended, on June 12, 1934 (T. M. 313,810); and that it was republished under the provisions of the Lanham Act, supra, January 18, 1949. The mark, which appears to be printed in Old English or a modified Black Letter type, is applied to applicant's cigars by being printed on wrappers enclosing the cigars and also on labels pasted on the cigar boxes.

The Examiner refused registration on the ground that the word "Seidenberg" constituted the dominant and significant feature of the mark and relied on the decision in the case of *Ex parte Sears, Roebuck & Co.*, 87 USPQ 400 (affirmed March 12, 1953, — U. S. App. D. C. —, 96 USPQ 360).

Upon appeal to the Commissioner, the appellant renewed its contention that the involved mark could not be classified as being primarily merely a surname because the additions of the single initial and the terminal portion "& Co's." together with the distinctive fashion in which they are printed, were sufficient to remove the mark from that category.

The Commissioner, in rejecting those contentions, stated

In the Sears, Roebuck and Co. case relied upon by the Examiner, it was held that the term "J. C. Higgins" was unregistrable because the addition of initials to the surname does not change the mark as a whole from being primarily merely a surname. It is my view that in the present case "S. Seidenberg" without the terminal portion "& Co's." would be clearly unregistrable as a trade-mark because it is *primarily* merely a surname for the same reasons stated in the Sears, Roebuck and Co. decision, and I am further of the opinion that the addition of the expression "& Co's." adds nothing distinctive in the applicant's mark since it has been the uniform practice to ignore such expressions on the theory that they do not serve to identify any particular company. The possessive form in which the expression "& Co's." appears is considered of no significance in this regard any more than if the "S" had been appended to the surname "Seidenberg." [Italics quoted.]

It appears that the two leading cases which have emerged as a result of the interpretations of the instant paragraph by the Patent Office are *Ex parte Dallioux*, 83 USPQ 262, and *Ex parte Sears, Roebuck*

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& Co., supra. In the former, the mark "Andre Dallioux" was allowed on the theory that it was the full name[1] of the applicant and, therefore, consisted of something more than primarily merely a surname.

In the *Sears, Roebuck & Co.* case, supra, the notation "J C Higgins" was denied registration on the theory that the word "Higgins" was the dominant part of the mark and that the addition of the initials did not prevent that mark from being considered to be primarily merely a surname.

[1] It seems to us that the Patent Office, in the difficult task of fairly interpreting the involved section, has adopted an inconsistent standard in its consideration of the two marks cited above. It would appear that had the reasoning employed in the *Higgins* case; namely, that "Higgins" constituted the dominant part of that mark, been consistently employed, then that reasoning, when applied to "Andre Dallioux," would necessarily have resulted in its rejection because "Dallioux" is, in our opinion, the dominant part of that mark.

Conversely, it seems to us that the initials in the *Higgins* mark should have received equal consideration to that given "Andre" in the *Dallioux* mark. We strongly doubt that Congress intended such a decisive distinction to be made between initials and given names in determining whether a mark is primarily merely a surname.

Here, however, the mark before us is different from both of the above marks.

This case was first argued January 16, 1953. At the conclusion thereof there was a substantial doubt in our minds as to exactly what Congress intended by the language employed in section 2(e). Since, in our opinion, there was some degree of ambiguity in that language, and since the instant case is one of first impression in this court, reargument, with particular reference to congressional intent, was requested. Reargument was had on May 15, 1953. Despite able presentation by counsel, however, congressional intent was not clearly established. Even if we would be justified in accepting the testimony of interested witnesses before the committee having charge of the involved legislation, here that testimony is inadequate.

[2] Turning then to what we consider to be the ordinary meaning of the words used in section 2(e), we refer to the case of *Beckwith* v. *Commissioner of Patents*, 252 U. S. 538, 1920 C. D. 471. In that case the word "merely" was held to be synonymous with "only." Applying that definition here, is the notation "S. Seidenberg & Co's." merely or only a surname? Literally it is something more than that. However, is it primarily[2] only a surname?

[3] It seems to us that "Seidenberg" is clearly a surname which can have no other meaning or significance than that of a surname. Nor do we believe that the addition of the single initial is sufficient to remove it from that category. Further, the addition of the expression "& Co's.," whether it be in the abbreviated and possessive form present here, or in the usual form, cannot be held to distinguish or relate to anything except the surname "Seidenberg."

[4] It is our conclusion, therefore, that the action of the Patent Office in holding that the involved mark was not more than primarily merely a surname, within the meaning of section 2(e), was correct.

We note the statement of the Commissioner that the mark of the applicant might well qualify for registration under the provisions of section 2(f) of the Lanham Act.[3] We see nothing in the record before us which might cause us to have any different view from that expressed by the Commissioner.

The decision of the Commissioner is affirmed.

AFFIRMED.

[1] Not literally correct since the full name was Andre Julien Dallioux.

[2] Webster's New International Dictionary, Second Edition, Unabridged, 1949:

primarily, *adv.* In the first place; originally, preeminently; fundamently; as, an action *primarily* based on policy.

primary, *adj.* • • • 1. First in order of time or development or in intention; primative; fundamental; original; initial. • • •

[3] Sec. 2(f) Except as expressly excluded in paragraphs (a), (b), (c), and (d) of this section, nothing herein shall prevent the registration of a mark used by the applicant which has become distinctive of the applicant's goods in commerce. The Commissioner may accept as prima facie evidence that the mark has become distinctive, as applied to the applicant's goods in commerce, proof of substantially exclusive and continuous use thereof as a mark by the applicant in commerce for the five years next preceding the date of the filing of the application for its registration. (15 U. S. C. 1052).

U. S. Court of Customs and Patent Appeals

IN RE PHELAN

No. 5957. Decided June 3, 1953

[205 F.2d 183; 98 USPQ 156]

1. DOUBLE PATENTING—DESIGN PATENT AS REFERENCE—IDENTICAL DRAWINGS PERSUASIVE OF ONLY ONE INVENTIVE CONCEPT.

Held that the fact that the applicant presented a drawing in his application which is identical to that in his prior design patent is in itself persuasive that only one inventive concept was present.

2. SAME — SAME — REJECTION PROPER WHERE PATENT CLAIM BROADER THAN DESIGN.

Although the limitations of a patent application claim would allow the construction of an article which does not duplicate the applicant's design patent, *Held* that the rejection of the patent claim may be proper where the claim reads on the patented design since, if a patent were granted on the application, the public would be precluded from benefiting after expiration of the design patent.

3. PATENTABILITY—PARTICULAR SUBJECT MATTER—DESIGN FOR FINGER RING.

A certain claim to a finger ring *Held* properly rejected as unpatentable over the applicant's prior design patent.

APPEAL from the Patent Office. Serial No. 769,793.

AFFIRMED.

Harvey B. Jacobson (*John H. Lewis, Jr.* of counsel) for appellant.

E. L. Reynolds for the Commissioner of Patents.

WORLEY, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office, one member dissenting, affirming the rejection by the Examiner of appellant's application, filed August 21, 1947, for a patent for alleged new and useful improvements in a "Finger Ring."

The three claims in appellant's application were rejected by the Board, but in oral argument here counsel for appellant moved to dismiss the appeal as to two of them. That motion being granted, the only claim remaining is claim 6 which reads:

> 6. In a finger ring, the combination of a set of inner and outer bars disposed on contacting relation and secured together at points spaced inwardly from the ends thereof, intermediate portions of the inner bars in the set constituting an arcuate band, intermediate portions of the outer bars being angulated upwardly and outwardly and providing arcuate side members at the top of the band, free end portions of said bars being divergent and secured to said side members to provide a socket, and a stone mounted in said socket.

The application was rejected on the ground of double patenting in view of a single reference, namely, appellant's Design Patent No. 150,726, dated August 24, 1948, on an application filed July 18, 1947.

The structure of appellant's device is sufficiently described in the claim.

The drawing which accompanied the design patent application and the drawing of the instant application for a mechanical patent both illustrate the same article.

Appellant contends that the Patent Office erred in holding that the claims constituted double patenting because they were "readable" on the disclosure contained in the design patent, and further erred in holding that any ring made in accordance with the claims would inevitably produce a structure so similar to the design patent that said patent would thereby be infringed.

The records and briefs before us have been carefully examined but we fail to find error on the part of the Board in denying the application.

[1] It is axiomatic that only one patent can be issued for one invention. The fact that identical drawings of the ring accompanied both applications is in itself persuasive that only one inventive concept was present.

However, in support of his contention that there is a patentable distinction between the structure of the design patent and that of the instant application, appellant produced, at the time of his motion for rehearing before the Board of Appeals, a drawing of a ring which he alleged was obviously different from that of the design patent but still read on the involved claims. That drawing is not evidence of conception before the application was filed nor is it evidence that it was ever conceived by appellant. But even if we assume the soundness of that contention, we do not believe it dispositive of the issue here.

[2] While it might be true that the limitations of the claim would allow the construction of a ring which does not duplicate the design patent, it does not follow that the same claim does not also read on the ring of the design patent. If, therefore, a patent were granted on the present application such action would preclude the public from benefiting after expiration of the term of the design patent.

Under the circumstances of this case, wherein the alleged design and mechanical inventions reside in substantially identical structures, we are of the opinion that the issuance of a second patent would not be justified.

[3] The decision of the Board of Appeals is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,007,115, 2,042,134. J. C. Walker, Method of producing hydrocarbon-oxygen compounds, D. C. Del., Doc. 1213, *Cities Service Oil Co. v. Celanese Corp. of America*. Order dismissing action as to 2,042,134 June 2, 1953.

2,042,134. (See 2,007,115.)

2,218,371, O. C. Jachar, Combination fill and vent box, filed Sept. 15, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15784, *Plastic Appliance Co. v. Adept Mfg. Co.*

2,352,014. A. Rott, Photo-mechanical printing process and printing material for carrying out the same, D. C., N. D. Ill. (Chicago), Doc. 52c2493, *The Gevaert Co. of America, Inc. v. American Photocopy Equipment Co.* Cause dismissed without prejudice Aug. 26, 1953.

2,380,112. (See Re. 23,416.)

2,445,322, M. C. Fridolph, Body garment, filed Sept. 12, 1953, D. C. Md. (Baltimore), Doc. 6891, *I. Newman & Sons, Inc., et al. v. The May Dept. Stores Co.* Same, suit for Declaratory Judgment filed Sept. 21, 1953, D. C., S. D. N. Y., Doc. 88/82, *Bestform Foundations, Inc. v. I. Newman & Sons Inc., et al.*

2,468,493, F. A. Greenwald, Duct, D. C., S. D. Calif. (Los Angeles), Doc. 9980–WB, *Arrowhead Rubber Co. v. California Rubber Products, Inc., et al.* Stipulation and order dismissing cause without prejudice (notice Sept. 8, 1953).

2,599,745, Campbell & Twining, Composition for sealing porous formations in oil and gas wells, filed Sept. 12, 1953, D. C., S. D. Tex. (Houston), Doc. 7688, *H. L. Twining v. The Milwhite Co., Inc., et al.*

2,605,187, G. W. Stiehm, Food packing rack and method of packing food articles; 2,618,563, H. J. Barnhard, Food container, filed Sept. 18, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13844, *Package-Servease Corp. v. B. M. Reeves Co., Inc.*

2,618,563. (See 2,605,187.)

2,625,478, Mattil & Norris, Modified lard and process of producing same, filed Sept. 11, 1953, D. C., E. D. Va. (Richmond), Doc. 1814, *Swift & Co. v. The Procter & Gamble Mfg. Co. et al.*

2,645,760. (See Des. 164,294.)

2,647,711, J. M. Margulis, Wall supported hanger, filed Sept. 14, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15778, *E. H. Tate Co. v. Jiffy Enterprises, Inc.*

2,649,647, Sternberg & Knabb, Tool holder, filed Sept. 11, 1953, D. C., E. D. Mich. (Detroit), Doc. 12870, *West Shore Mfg. Co. v. Wesson Co.*

Re. 23,416 (of 2,380,112), C. W. Kinnear, Drill, filed Sept. 19, 1953, D. C., S. D. Tex. (Houston), Doc. 7708, *Kinnear-Weed Corp. v. Hughes Tool Co.*

Des. 158,267, Des. 158,268, O. W. Grummt, Woman's stocking, D. C., E. D. Pa. (Philadelphia), Doc. 12572, *Carroll Hosiery Corp. et al. v. Lexington Hosiery Co., Inc.* Consent judgment favor plaintiffs and granting injunction Sept. 8, 1953.

Des. 158,268. (See Des. 158,267.)

Des. 164,294, S. S. Fortino, Multiway electrical connector; 2,645,760, same, Blade engageable electric connector, filed Sept. 17, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13843, *Gem Electric Mfg. Co., Inc. v. A. K. Electric Corp.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 20,065, The Singer Mfg. Co., Manufactured machines; T. M. 69,900, T. M. 69,901, same, Sewing machines and attachments; T. M. 93,128, same, Sewing-machine needles; T. M. 118,708, T. M. 118,709, same, Electric motors and accessories therefor; T. M. 442,525, same, Lubricating-oil; T. M. 577,125, T. M. 577,126, same (Service Marks—Consolidated Certificate), For services rendered to the public, filed Sept. 14, 1953, D. C., S. D. N. Y., Doc. 88/26, *Singer Mfg. Co. et al. v. Singer Sewing Machine Exchange.*

T. M. 53,937, Schulke & Mayr, Antiseptic and disinfectant; T. M. 128,764, T. M. 219,630, T. M. 381,120, Lehn & Fink, Inc., same, filed Sept. 17, 1953, D. C., S. D. N. Y., Doc. 88/51, *Lehn & Fink Products Corp. v. Milner Products Co., Inc.*

T. M. 69,900. (See T. M. 20,065.)

T. M. 69,901. (See T. M. 20,065.)

T. M. 93,128. (See T. M. 20,065.)

T. M. 118,708. (See T. M. 20,065.)

T. M. 118,709. (See T. M. 20,065.)

T. M. 128,764. (See T. M. 53,937.)

T. M. 219,630. (See T. M. 53,937.)

T. M. 381,120. (See T. M. 53,937.)

T. M. 442,525. (See T. M. 20,065.)

T. M. 511,106, Uncas Mfg. Co., Jewelry, not including watches, D. C., S. D. N. Y., Doc. 85/46, *Uncas Mfg. Co. v. Leo Glass & Co., Inc.* Stipulation and order of discontinuance (notice Sept. 10, 1953).

T. M. 540,686, Russell Index Co., Indexes, filed Sept. 14, 1953, D. C. N. J. (Trenton), Doc. 759/53, *Russell Index Co. v. Remington-Rand, Inc.*

T. M. 556,551, R. C. Parkes, Drying, dyeing, bleaching and carbonizing machine and parts thereof, D. C. N. J. (Camden), Doc. 342/53, *The National Drying Machine Co. v. Eastern Enterprises, Inc.* Consent decree admitting infringement, injunction granted Sept. 17, 1953.

T. M. 577,125. (See T. M. 20,065.)

T. M. 577,126. (See T. M. 20,065.)

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abelson, L., & Son, Inc., New York, N. Y. Boys', infants', and children's wearing apparel. Serial No. 648,273, Dec. 8. Class 39.

Adams, Frederick C., doing business under the name of Wild Acres Turkey Farm, Steep Falls, Maine. Turkey stuffing and giblet gravy. Serial No. 643,398, Dec. 8. Class 46.

Allure Shoe Corporation, Miami, Fla. Women's shoes, cloth and leather gloves, and cloth and leather belts. Serial No. 635,338, Dec. 8. Class 39.

Ameray Corporation: *See*—
American Ray-Proof Corporation.

Amerco Game Products, Hollywood, Calif. Puzzle game. Serial No. 650,570, Dec. 8. Class 22.

American Instrument Company, Inc., Silver Spring, Md. Metering pumps. Serial No. 630,822, Dec. 8. Class 26.

American Ray-Proof Corporation, West New York, N. J., by change of name Ameray Corporation. Construction material. Serial No. 621,494, Dec. 8. Class 12.

American Tag Company, Chicago, Ill. Printed booklets, tags, and labels. Serial No. 648,641, Dec. 8. Class 38.

American Type Founders, Inc., Elizabeth, N. J. Variable speed power transmissions. Serial No. 631,264, Dec. 8. Class 23.

Anderson, Clayton & Co., Houston, Tex. Infant's blankets. Serial No. 625,241, Dec. 8. Class 42.

Appalachian Wood Preservers, Incorporated, Goshen, Va. Railroad ties, timbers, lumber, etc. Serial No. 637,103, Dec. 8. Class 12.

Arcadia Metal Products, Los Angeles, Calif. All types of doors, windows, and sash. Serial No. 608,263, Dec. 8. Class 12.

Arliss, Charles, doing business as Premier Plastics Co., Brooklyn, N. Y. Swim feet. Serial No. 647,684, Dec. 8. Class 22.

Armco Steel Corporation, Middletown, Ohio. Surface impregnated and coated ferrous metal sheets. Serial No. 631,396, Dec. 8. Class 14.

Armour and Company, doing business under the trade style Jacob E. Decker & Sons, Chicago, Ill. Fresh carcass beef, pork shoulder picnic, etc. Serial No. 629,278, Dec. 8. Class 46.

Astra Trading Corporation, New York, N. Y. Binoculars, field glasses, opera glasses, etc. Serial No. 631,777, Dec. 8. Class 26.

Atlas Supply Company, Newark, N. J. Storage battery separators. Serial No. 639,610, Dec. 8. Class 21.

Autocrte, Inc., Long Beach, Calif. Small automobiles. Serial No. 652,820, Dec. 8. Class 19.

Automo Corporation, Saginaw, Mich. Automatic starter switches. Serial No. 638,631, Dec. 8. Class 21.

B. V. D. Company, Inc., The, New York, N. Y. Clothing. Serial No. 638,684, Dec. 8. Class 39.

Baker, Harry B., trading and doing business under the trade name and style of Harrisburg Bedding Company, Lemoyne, Pa. Mattresses. Serial No. 644,713, Dec. 8. Class 32.

Baldwin-Hill Company, Trenton, N. J. Mineral wool insulation. Serial No. 638,235, Dec. 8. Class 12.

Baldwin-Hill Company, Trenton, N. J. Roofing felt. Serial No. 638,236, Dec. 8. Class 12.

Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. Serial No. 649,058, Dec. 8. Class 42.

Bankers Box Company, Chicago, Ill. Shelving units for storage boxes or drawers. Serial No. 631,844, Dec. 8. Class 32.

Barry Corporation, The, Watertown, Mass. Vibration, shock and/or sound absorption mountings. Serial No. 631,718, Dec. 8. Class 23.

Baum's, Inc., Philadelphia, Pa. Ballet and stage dancing slippers. Serial No. 646,648, Dec. 8. Class 39.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Gun recoil pads and gun covers. Serial No. 648,352, Dec. 8. Class 9.

Belnap & Thompson, Inc., Chicago, Ill. Sales campaign mailing set. Serial No. 637,903, Dec. 8. Class 38.

Bemis Bro. Bag Company, St. Louis, Mo. Burlap bags. Serial No. 650,415, Dec. 8. Class 2.

Bevan, Arthur, doing business as Bevan Beauty Products, Chicago, Ill. Hair dye stain remover and cuticle softener. Serial No. 634,834, Dec. 8. Class 51.

Bevan Beauty Products: *See*—
Bevan, Arthur.

Blue Mountain Prune Growers' Cooperative, Milton-Freewater, Oreg. Fresh fruits. Serial No. 637,357, Dec. 8. Class 46.

Boepple Sportswear Mills, Inc., New York, N. Y. Slipover and cardigan sweaters. Serial No. 644,718, Dec. 8. Class 39.

Borden Company, The, New York, N. Y. Pasteurized process cheese spread. Serial No. 648,725, Dec. 8. Class 46.

Bradway, Otis B., doing business as Otis Bradway Company, New Castle, Ind. Sump pumps. Serial No. 647,338, Dec. 8. Class 23.

Bradway, Otis, Company: *See*—
Bradway, Otis B.

Burke, Edward and John, Limited, Long Island City, N. Y., now by change of name Arthur Guinness Son & Co., Distributors, Ltd. Ale. Serial No. 643,286, Dec. 8. Class 48.

Calumet & Hecla, Inc., Calumet, Mich. Welded steel tube. Serial No. 647,992, Dec. 8. Class 13.

Cambridge Rubber Company, The, Cambridge, Mass. Soles for boots and shoes, and boots and shoes. Serial No. 648,530, Dec. 8. Class 39.

Cannon, H. P., & Son, Inc., Bridgeville, Del. Canned vegetables. Serial No. 645,537, Dec. 8. Class 46.

Carbonic Dispenser, Inc., Canfield, Ohio. Valves. Serial No. 648,080, Dec. 8. Class 13.

Carr-Consolidated Biscuit Company, Wilkes-Barre, Pa. Bakery products. Serial No. 648,483, Dec. 8. Class 46.

Central Screw Company, Chicago, Ill. Screws. Serial No. 648,155, Dec. 8. Class 13.

Channel Master Corporation, Ellenville, N. Y. Television and frequency modulation antennas. Serial No. 638,474, Dec. 8. Class 21.

Cheri Inc., Wichita, Kans. Lipsticks. Serial No. 619,229, Dec. 8. Class 51.

Cigogne, Inc., New York, N. Y. Cologne. Serial No. 647,759, Dec. 8. Class 51.

Cimota Enterprises, Inc., Boise, Idaho. Soil conditioner. Serial No. 637,535, Dec. 8. Class 10.

Coleman Engineering Company, Los Angeles, Calif. Electro-mechanical contact setting instrument. Serial No. 639,107, Dec. 8. Class 26.

Compagnie des Entreprises Industrielles, Paris, France. Grinding and sieving machines. Serial No. 640,443, Dec. 8, 1953. Class 23.

Compco Corporation, Chicago, Ill. Stereoscopic projectors. Serial No. 647,162, Dec. 8. Class 26.

Cornell Manufacturing Co., Inc., Long Island City, N. Y. Airplane and machine parts—namely, screws, bolts, and nuts. Serial No. 649,215, Dec. 8. Class 13.

Corsetry, Inc., New York, N. Y. Corsets, girdles, and foundation garments. Serial No. 630,884, Dec. 8. Class 39.

Creamery Package Mfg. Company, Chicago, Ill. Dairy products processing equipment. Serial No. 632,506, Dec. 8. Class 34.

Cromwell Paper Company, The, Chicago, Ill. Embossed re-enforced asphalt laminated waterproof paper. Serial No. 635,522, Dec. 8. Class 37.

Crown Zellerbach Corporation, San Francisco, Calif. Paper towels. Serial No. 648,087, Dec. 8. Class 37.

Crucible Steel Company of America, New York, N. Y. Diecasting die steel. Serial No. 611,690, Dec. 8. Class 14.

Da-Lite Screen Company, Inc., Chicago, Ill. Fabric for motion picture screens. Serial No. 648,297, Dec. 8. Class 26.

Davis Products, Inc., Beverly Hills, Calif. Juvenile plastic toys, and for camping mattresses. Serial No. 645,552, Dec. 8. Class 22.

Decade Instrument Co., Caldwell, N. J. Direct reading decade switching oscillator utilized in connection with radio and television and associated equipment. Serial No. 646,852, Dec. 8. Class 26.

Decker, Jacob E., & Sons: *See*—
Armour and Company.

Delira Corporation, Studio City, Calif. Boys' and girls' leather and suede jackets, cloth jackets, Western and dress slacks, etc. Serial No. 617,016, Dec. 8. Class 39.

Deréta (London) Limited, London, England. Skirts, stoles, and scarves. Serial No. 622,252, Dec. 8. Class 39.

Diemer Knitting Mills, Inc., Lewisport, Pa. Men's and boys' knitted undershirts, briefs, T-shirts, and sport shirts. Serial No. 648,298, Dec. 8. Class 39.

Drum Equipment Corporation, Union, N. J. Coin operated amusement apparatus. Serial No. 632,116, Dec. 8. Class 22.

Du-Lite Chemical Corporation, The, Middletown, Conn. Phosphatizing liquid for use in producing a permanent protective phosphate coating on metal articles. Serial No. 643,872, Dec. 8. Class 16.

Eagle Lock Company, The, Terryville, Conn. Screws. Serial No. 636,216, Dec. 8. Class 13.

Edison, Thomas A., Incorporated, West Orange, N. J. Equipment for transmitting stations of remote control dictation systems, etc. Serial No. 617,281, Dec. 8. Class 21.

Edwards, Iris, Inc., New York, N. Y. Hair brushes. Serial No. 643,475, Dec. 2. Class 29.

Edwards, Iris, Inc., New York, N. Y. Integrally-formed, multiple hair combs. Serial No. 643,476, Dec. 8. Class 40.

Empire Brushes, Inc., Port Chester, N. Y. Floor brushes, garage brushes, street push brooms, etc. Serial No. 646,209, Dec. 8. Class 29.

English Imports, Inc., New York, N. Y. Boys' and girls' coats. Serial No. 648,012, Dec. 8. Class 39.
Ernco Products, Inc., Ann Arbor, Mich. Electric vaporizers. Serial No. 626,234, Dec. 8. Class 21.
Even-Pul Foundations, Inc., New York, N. Y. Brassières, girdles, corselets, etc. Serial No. 635,221, Dec. 8. Class 39.
F & F Laboratories, Inc., Chicago, Ill. Popcorn. Serial No. 633,612, Dec. 8. Class 46.
Factory Outlet Shoe Store, El Paso, Tex. Women's shoes. Serial No. 636,927, Dec. 8. Class 39.
Fairchild Publications, Inc., New York, N. Y. Weekly newspaper. Serial No. 629,238, Dec. 8. Class 38.
Ferguson, Martha C., Stow, Mass. Notepaper. Serial No. 647,491, Dec. 8. Class 37.
Fiat Societa per Azioni, Turin, Italy. Electrical apparatus, devices, and supplies. Serial No. 633,047, Dec. 8. Class 21.
Fidelity Trading Co., Inc., San Francisco, Calif. Rope and twine. Serial No. 640,069, Dec. 8. Class 7.
Frohlich, Israel, doing business as Global Optical Company, New York, N. Y. Spectacles, sun glasses, and parts thereof. Serial No. 638,297, Dec. 8. Class 26.
Fromm, Martin, Kansas City, Mo. Trade publication. Serial No. 640,335, Dec. 8. Class 38.
Galaxy Publishing Corp., New York, N. Y. Magazine. Serial No. 645,692, Dec. 8. Class 38.
Gate City Steel Works, Inc., Omaha, Nebr. Structural steel. Serial No. 622,298, Dec. 8. Class 12.
Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial Nos. 647,173–4, Dec. 8. Class 28.
Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial Nos. 647,176–7, Dec. 8. Class 28.
Gilbert, Ruth, Brookside, Mendham Township, Morris County, N. J. Newspaper column. Serial No. 649,360, Dec. 8. Class 38.
Gillette Company, The, Gillette Park, Boston, Mass. Safety razors and safety razor blades. Serial No. 647,411, Dec. 8. Class 23.
Gisholt Machine Company, Madison, Wis. Machines for applying seal coverings to capped bottles. Serial No. 647,613, Dec. 8. Class 23.
Gisholt Machine Company, Madison, Wis. Machines for applying seal coverings to capped bottles and for machine tools. Serial No. 647,614, Dec. 8. Class 23.
Global Optical Company: *See*—
Frohlich, Israel.
Gluckin, Wm., & Co., Inc., New York, N. Y. Girdles and brassières. Serial No. 624,595, Dec. 8. Class 39.
Goldline Fashions, Inc., New York, N. Y. Ladies' coats. Serial No. 647,255, Dec. 8. Class 39.
Goodman, H., & Sons, Inc., Jersey City, N. J., and New York, N. Y. Non-electric hair curlers, barrettes, and combs. Serial No. 648,752, Dec. 8. Class 40.
Goodrich, B. F., Company, The, New York, N. Y., assignee of Harmon Color Works, Inc. Dry and paste colors for the preparation of paints. Serial No. 562,261, Dec. 8. Class 16.
Goodrich, B. F., Company, The, New York, and Akron, Ohio. Shoes. Serial No. 647,925, Dec. 8. Class 39.
Green, Nat, Inc., New York, N. Y. Ladies', misses', and junior's coats and suits. Serial No. 643,157, Dec. 8. Class 39.
Greer, Joubert L., Midland, Tex. Game. Serial No. 653,011, Dec. 8. Class 22.
Griesedieck Bros. Brewery Company, St. Louis, Mo. Beer. Serial No. 649,364, Dec. 8. Class 48.
Guinness, Arthur, Son & Co., Distributors, Ltd.: *See*—
Burke, Edward and John, Limited.
Guth, Edwin F., Company, The, St. Louis, Mo. Light diffusers. Serial No. 621,767, Dec. 8. Class 21.
Hammond Research Corporation, Gloucester, Mass. Electric organs. Serial No. 631,863, Dec. 8. Class 36.
Hansen Manufacturing Company, The, Cleveland, Ohio. Hose couplings. Serial No. 648,102, Dec. 8. Class 13.
Harmon Color Works, Inc., assignee: *See*—
Goodrich, B. F., Company, The.
Harrisburg Bedding Company: *See*—
Baker, Harry B.
Hayward Woolen Co.: *See*—
Murray, Leo J.
Hearst Publishing Company, Inc., New York, N. Y. Regular newspaper feature, section, or department. Serial No. 647,844, Dec. 8. Class 38.
Hecht, Herbert A., doing business as Herbert A. Hecht Company, Springfield, Ohio. Ribbon for tying and ornamenting packages. Serial No. 639,633, Dec. 8. Class 7.
Hecht, Herbert A., Company: *See*—
Hecht, Herbert A.
Heim, Jacques, Societe Anonyme, Paris, France. Perfumes. Serial No. 642,033, Dec. 8. Class 51.
Heller Hostess-Ware, Inc., White Plains, N. Y., by change of name from J. & M. Heller Company, Inc. Cake tray and cover therefor. Serial No. 579,598, Dec. 8. Class 2.
Heller, J. & M., Company, Inc.: *See*—
Heller Hostess-Ware, Inc.
Helms Products, Inc., Grand Rapids, Mich. Enlarged photographic reproductions and framed photographs. Serial No. 643,835, Dec. 8. Class 38.
Hettrick Manufacturing Company, The, Toledo, Ohio. Canvas awnings. Serial No. 643,836, Dec. 8. Class 50.
Hirsh, S. A., Manufacturing Co., Skokie, Ill. Shelves and sets of shelves. Serial No. 636,359, Dec. 8. Class 32.
Hollister, Harry H., Mountaine View, Calif. Newspaper copy. Serial No. 614,877, Dec. 8. Class 38.
Hubbard Shoe Co.: *See*—
Weyenberg Shoe Manufacturing Company.
Hunt Publications Inc., New York, N. Y. Weekly trade publications. Serial No. 647,417, Dec. 8. Class 38.
Hydra-Power Corporation, Tuckahoe, N. Y. Hydraulic and pneumatic valves. Serial No. 648,859, Dec. 8. Class 13.
Illinois Accessories Company, Chicago, Ill. High-tension spark plug cable sets. Serial No. 630,845, Dec. 8. Class 21.
Illinois Farm Supply Co., Chicago, Ill. Fertilizer. Serial No. 639,054, Dec. 8. Class 10.
Indiana Fur Co., Inc., Indianapolis, Ind. Mink coats. Serial No. 624,136, Dec. 8. Class 39.
Industrial Tape Corporation, North Brunswick Township, Middlesex County, N. J., now by change of name, Permacel Tape Corporation. Publications. Serial No. 635,535, Dec. 8. Class 38.
International Shoe Company, St. Louis, Mo. Shoes. Serial No. 645,571, Dec. 8. Class 39.
International X-ray, Inc., Mobile, Ala. Systemic insecticide fertilizer. Serial No. 640,793, Dec. 8. Class 10.
Ipsen Industries, Inc., Rockford, Ill. Granular material used as insulation in electric heating apparatus. Serial No. 648,758, Dec. 8. Class 21.
Jantzen Knitting Mills Inc., Portland, Oreg. Foundation garments—specifically, girdles. Serial No. 648,759, Dec. 8. Class 39.
Johns-Manville Corporation, New York, N. Y. Diatomaceous earth in powdered form treated and processed for use as an additive for concrete. Serial No. 632,428, Dec. 8. Class 12.
Kabushiki Kaisha Masudaya Saito Boeki, Tokyo, Japan. Mechanical toys, dolls, blocks, etc. Serial No. 608,168, Dec. 8. Class 22.
Kay Manufacturing Corporation, Brooklyn, N. Y. Bed divan hinges and parts thereof. Serial No. 648,311, Dec. 8. Class 13.
Kaylon Incorporated, New York, N. Y. Pajamas, pajama coats, beach coats, etc. Serial No. 554,025, Dec. 8. Class 39.
Kay's-Newport, Inc., Providence, R. I. Children's shoes. Serial No. 639,118, Dec. 8. Class 39.
Kelly, R. A., Co., The, Xenia, Ohio. Twine. Serial No. 646,221, Dec. 8. Class 7.
Keuffel & Esser Company, Hoboken, N. J. Measuring tapes. Serial No. 649,001, Dec. 8. Class 26.
Kissner Industries, Inc., Madison, Wis. Electric lamps. Serial No. 648,409, Dec. 8. Class 21.
Klimsch & Co., Frankfurt, Germany, and New York, N. Y. Drying cabinets for films and plates, plate and film holders, offset whirler for sensitizing plates, etc. Serial No. 641,249, Dec. 8. Class 26.
Knights, James, Company, The, Sandwich, Ill. Quartz piezoelectric crystals, semi-finish quartz piezoelectric crystal blanks, etc. Serial No. 627,193, Dec. 8. Class 21.
L & W Brassiere Company, New York, N. Y. Brassières. Serial No. 626,252, Dec. 8. Class 39.
Laboratoires Vitapointe, Lyon, France. Cream preparation for application to the hair. Serial No. 644,153, Dec. 8. Class 51.
Larson Water Craft, Inc., Little Falls, Minn. Motorboats, rowboats, duckboats, etc. Serial No. 627,583, Dec. 8. Class 19.
Lear, Incorporated, Grand Rapids, Mich. Auto-transformer. Serial No. 648,350, Dec. 8. Class 21.
Lebanon Fabrics Corporation, New York, N. Y. Textile fabrics. Serial No. 644,848, Dec. 8. Class 42.
Lees Textile Company, The, Lowell, Mass. Ribbons and cords. Serial No. 635,657, Dec. 8. Class 7.
Lerner Bros. Manufacturing Co., Inc., Baxter Springs, Kans., and Kansas City, Mo. Sportswear. Serial No. 622,722, Dec. 8. Class 39.
Lerner Coat and Suit Co., Philadelphia, Pa. Ladies' suits and coats. Serial No. 637,133, Dec. 8. Class 39.
Lester Brothers, Inc., Martinsville, Va. Prefabricated door units, prefabricated window units and prefabricated houses. Serial No. 647,702, Dec. 8. Class 12.
Levy Jewelers, Inc., Savannah, Ga. Watches. Serial No. 647,941, Dec. 8. Class 27.
Lewis, Fay A., New York, N. Y. Publications. Serial No. 648,027, Dec. 8. Class 38.
Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y. Men's knitted sweaters and basque shirts. Serial No. 647,639, Dec. 8. Class 39.
Lumbard-Watson Co., Auburn, Maine. Moccasin type shoes. Serial No. 639,482, Dec. 8. Class 39.
Maas, Louis A., doing business as Maas Organ Company, assignor to Maas Organ Company, Los Angeles, Calif. Electrically operated musical percussion instruments. Serial No. 576,217, Dec. 8. Class 36.
Maas Organ Company: *See*—
Maas, Louis A.
Maggio Farms, Inc., King City, Calif. Fresh carrots. Serial No. 651,843, Dec. 8. Class 46.
Mall Tool Company, Chicago, Ill. Electrically operated portable polishing, surfacing, and buffing tools. Serial No. 618,093, Dec. 8. Class 21.

Mall Tool Company, Chicago, Ill. Portable gasoline engine driven chain saws. Serial No. 639,064, Dec. 8. Class 23.
Manhattan Pickle Co.: *See*—
Manhattan Pickle Co, Inc., The.
Manhattan Pickle Co. Inc., The, doing business under the name Manhattan Pickle Co., Chicago, Ill. Relish. Serial No. 642,415, Dec. 8. Class 46.
Mecha-Finish Corporation, Sturgis, Mich. Machines adapted to utilize abrasives, grinding, deburring, burnishing, polishing and coloring compounds. Serial No. 632,681, Dec. 8. Class 23.
Mercury Messenger Corporation, New York, N. Y. Delivery of packages by foot messenger and motor vehicle. Serial No. 637,383, Dec. 8. Class 105.
Merit Products, Inc., Boston, Mass. Combination ash tray, cigarette holder, and match holder for attachment to a telephone. Serial No. 636,024, Dec. 8. Class 8.
Mespo Umbrella Co. Inc., New York, N. Y. Umbrellas. Serial No. 647,362, Dec. 8. Class 41.
Metal Craft, Inc., Fort Lauderdale, Fla. Caddy carts. Serial No. 652,964, Dec. 8. Class 22.
Miami Footwear Corporation, Miami, Fla. Ladies' and misses' shoes and slippers. Serial No. 647,256, Dec. 8. Class 39.
Mid-West Refineries, Inc., Grand Rapids, Mich. Lubricating oils and greases and for gasoline and hydrocarbon fuels. Serial No. 563,686, Dec. 8. Class 15.
Milkmaid Inc., New York, N. Y. Lipstick and nail polish. Serial No. 629,678, Dec. 8. Class 51.
Miller Manufacturing Co., Inc., Joplin, Mo., and New York, N. Y. Tots', boys', and girls' dungarees. Serial No. 624,099, Dec. 8. Class 39.
Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Textile, woven, woolen rugs and carpets. Serial No. 644,684, Dec. 8. Class 42.
Monterey Coat Co., Inc., New York, N. Y. Ladies' suits and coats. Serial No. 647,705, Dec. 8. Class 39.
Mosel, Charles, Chicago, Ill. Men's apparel and the following women's apparel—scarves, sweaters, etc. Serial No. 560,494, Dec. 8. Class 39.
Moss & Lowenhaupt Cigar Co., St. Louis, Mo. Pipes, tobacco pouches, and lighter flints. Serial No. 646,152, Dec. 8. Class 8.
Mulhollan, Paige E., Company, Inc., Fort Smith, Ark. Inner spring mattresses and box springs. Serial No. 647,218, Dec. 8. Class 32.
Murray, Leo J., doing business under the name of Hayward Woolen Co., East Douglas, Mass. Textile fabrics. Serial No. 629,682, Dec. 8. Class 42.
Muther Manufacturing Company: *See*—
Peerless Machinery Company, The.
National Automobile Association, Inc., Atlanta, Ga. Publication. Serial No. 645,251, Dec. 8. Class 38.
National Steel Corporation, Wilmington, Del., and Weirton, W. Va. Steel products. Serial No. 648,184, Dec. 8. Class 14.
Naxon Utilities Corporation, Chicago, Ill. Electric cooking apparatus, electric frying pans, electric chicken fryers, etc. Serial No. 644,435, Dec. 8. Class 21.
Neil, George, North Bergen, N. J. Weekly and monthly publications. Serial No. 635,881, Dec. 8. Class 38.
New American Library of World Literature, Inc., The, New York, N. Y. Books. Serial No. 648,877, Dec. 8. Class 38.
Newcomb Audio Producta Company, Los Angeles, Calif. Electrical apparatus. Serial No. 644,438, Dec. 8. Class 21.
New Yorker Magazine, Inc., The, New York, N. Y. Magazine column. Serial No. 647,870, Dec. 8. Class 38.
O'Brien, John T., Oakland, Calif. Comic strip. Serial No. 647,519, Dec. 8. Class 38.
Ohmite Manufacturing Company, Chicago, Ill. Electrical circuit control elements. Serial No. 606,721, Dec. 8. Class 21.
O'Keefe and Merritt Company, Los Angeles, Calif. Gas ranges. Serial No. 626,107, Dec. 8. Class 34.
Ortho Pharmaceutical Corporation, Raritan, N. J. Gynecological preparations, veterinary preparations, etc. Serial No. 647,027, Dec. 8. Class 18.
Pace, Frank, assignor to Frank Pace Co., New York, N. Y. Women's and misses' coats and suits. Serial No. 644,342, Dec. 8. Class 39.
Pace, Frank Co., assignee: *See*—
Pace, Frank.
Parents' Institute, Inc., The, New York, N. Y. Magazine. Serial No. 648,497, Dec. 8. Class 38.
Pearlduck, Inc., New York, N. Y. Razors, shears, scissors, etc. Serial No. 623,204. Class 23.
Peek-A-Boo! Publishers, Tucson, Ariz. Monthly magazine. Serial No. 647,713, Dec. 8. Class 38.
Peerless Machinery Company, The, trading under the name and style of Muther Manufacturing Company, Boston, Mass. Instrument for measuring deceleration. Serial No. 648,789, Dec. 8. Class 26.
Perdue Manufacturing Company, Athens, Ga. Babies' diapers. Serial No. 643,853, Dec. 8. Class 39.
Perfection Packaging, Shelburn, Ind. Protective packaging container. Serial No. 614,995, Dec. 8. Class 2.
Perma Products Company, The, Cleveland, Ohio. Corner finishing strips. Serial No. 648,188, Dec. 8. Class 12.
Permacel Tape Corporation: *See*—
Industrial Tape Corporation.
Pest Control Limited, Bourn, Cambridge, England. Pesticides, systemic insect poisons, insecticides, etc. Serial No. 622,453, Dec. 8. Class 6.
Pindyck, Charles, Inc., New York, N. Y. Bathrobes. Serial No. 641,797, Dec. 8. Class 39.
Plains Chemical Company, Inc., Dodge City, Kans. Protective coatings. Serial No. 637,398, Dec. 8. Class 16.
Polaroid Corporation, Cambridge, Mass. Print coaters. Serial No. 631,575, Dec. 8. Class 26.
Premier Plastics Co.: *See*—
Arliss, Charles.
Premier Radio Enterprises, Inc., St. Louis, Mo. Packaged magnetic recordings of sound programs. Serial No. 635,931, Dec. 8. Class 21.
Presente, Inc., San Juan, P. R. Weekly news magazine. Serial No. 629,515, Dec. 8. Class 38.
Pressing Supply Company, Philadelphia, Pa. Ironing board pads and ironing board pad covers. Serial No. 611,306, Dec. 8. Class 24.
Price Battery Corporation, Hamburg, Pa. Storage battery grids. Serial No. 640,474, Dec. 8. Class 21.
Protexol Corporation, Kenilworth, N. J. Chemically treating lumber, wood, plywood, etc. Serial No. 636,801, Dec. 8. Class 106.
Pyle, Harry A., Osawatomie, Kans. Salad dressing mix. Serial No. 646,685, Dec. 8. Class 46.
Quaker Oats Company, The, Chicago, Ill. Electrostatic separator machines and power units therefor. Serial No. 647,442, Dec. 8. Class 21.
Ramirez, R. R., doing business as Tendresse Cosmetics, San Francisco, Calif. Hand cream, all purpose cream, hand lotion, etc. Serial No. 629,914, Dec. 8. Class 51.
Record Industrial Company, Philadelphia, Pa. Shoes. Serial No. 637,400, Dec. 8. Class 39.
Redlands Foothill Groves, Redlands, Calif. Fresh oranges. Serial No. 563,431, Dec. 8. Class 46.
Reflectone Corporation, The, Stamford, Conn. Furniture. Serial No. 638,013, Dec. 8. Class 32.
Rex Shoe Company, Inc., Long Island City, N. Y. Women's and children's shoes. Serial No. 610,230, Dec. 8. Class 39.
Rothmoor Corporation, Chicago, Ill. Women's and misses' coats. Serial No. 642,169, Dec. 8. Class 39.
Royal Electric Company, Inc., Pawtucket, R. I. Plug fuses; non-renewable cartridge type fuses; renewal cartridge type fuses; etc. Serial No. 623,013, Dec. 8. Class 21.
Saco-Lowell Shops, Boston, Mass. Textile machinery. Serial No. 641,091, Dec. 8. Class 23.
Sangamon Company, The, Taylorville, Ill. Writing paper and envelopes. Serial No. 640,696, Dec. 8. Class 37.
Sanitary Paper Mills, Incorporated, East Hartford, Conn. Absorbent cleansing tissues, facial tissues, and toilet tissues. Serial No. 574,978, Dec. 8. Class 37.
Schlampp, P., & Son, Incorporated, Minneapolis, Minn. Ladies' and children's hats. Serial No. 647,047, Dec. 8. Class 39.
Scovill Manufacturing Company, Waterbury, Conn., and Racine, Wis. Electrically operated drink mixers. Serial No. 644,932, Dec. 8. Class 21.
Servel, Inc., Evansville, Ind., and New York, N. Y. Refrigerators, refrigerator parts, automatic refrigerators, etc. Serial No. 642,998, Dec. 8. Class 31.
Shuford Mills, Incorporated, Hickory, N. C. Cotton braided clothes lines. Serial No. 624,854, Dec. 8. Class 7.
Shuford Mills, Incorporated, Hickory, N. C. Cotton braided clothes lines. Serial No. 624,856, Dec. 8. Class 7.
Shuford Mills, Incorporated, Hickory, N. C. Cotton braided clothes lines. Serial Nos. 624,858–9, Dec. 8. Class 7.
Shuford Mills, Incorporated, Hickory, N. C. Cotton braided clothes lines. Serial No. 624,861, Dec. 8. Class 7.
Shuford Mills, Incorporated, Hickory, N. C. Cotton braided clothes lines. Serial No. 625,566, Dec. 8. Class 7.
Skylon Corporation, New York, N. Y. Ladies' and misses' nightgowns, pajamas and slips. Serial No. 648,056, Dec. 8. Class 39.
Small, Joe A., doing business under the firm name of Sportsman Publishing Company, Austin, Tex. Quarterly publication. Serial No. 647,102, Dec. 8. Class 38.
Smith-Benny Sales Co. Inc., New York, N. Y. Folding tables. Serial No. 637,794, Dec. 8. Class 32.
Societa Veneziana Conterie e Cristallerie, Murano (Venice), Italy. Beads for jewelry, necklaces, bracelets, etc. Serial No. 625,696, Dec. 8. Class 40.
Spink, Charles C., and Son: *See*—
Sporting News Publishing Company, Inc., The.
Sporting Goods Publishing Company, The, St. Louis, Mo. Yearly directory. Serial No. 640,134, Dec. 8. Class 38.
Sporting News Publishing Company, Inc., The, doing business as Charles C. Spink and Son, St. Louis, Mo. Section of weekly publication. Serial No. 640,053, Dec. 8. Class 38.
Sportsman Publishing Company: *See*—
Small, Joe A.

Squire, Robert K., doing business as Superior Scaffolding Co., Culver City, Calif. Metal brackets. Serial No. 612,144, Dec. 8. Class 13.
Stanislaus Food Products Company, Modesto, Calif. Canned fruits, canned vegetables, canned fruit cocktail, etc. Serial No. 649,258, Dec. 8. Class 46.
Stanley Works, The, New Britain, Conn. Small electric drills. Serial No. 636,440, Dec. 8. Class 21.
Stephanie Playthings, Inc., New York, N. Y. Dolls. Serial No. 624,164, Dec. 8. Class 22.
Strauss, Nathan, -Duparquet, Inc., New York, N. Y. Gas-heated broilers and griddles. Serial No. 618,012, Dec. 8. Class 34.
Stroward, Inc., Atlanta, Ga. Toys. Serial No. 641,346, Dec. 8. Class 22.
Superior Scaffolding Co.: *See*—
Squire, Robert K.
Swartzbaugh Manufacturing Company, The, Toledo, Ohio. Non-electric food and utensil serving and utility trucks. Serial No. 630,102, Dec. 8. Class 19.
Swisher, Jno. H., & Son, Inc., Jacksonville, Fla. Cigars. Serial No. 634,171, Dec. 8. Class 17.
Swiveller Company, Inc., New York, N. Y. Fluorescent lighting fixtures and parts thereof. Serial No. 634,812, Dec. 8. Class 21.
TelAutograph Corporation, New York, N. Y. Telescriber facsimile communication apparatus and parts thereof. Serial No. 634,666, Dec. 8. Class 21.
Tendresse Cosmetics: *See*—
Ramirez, R. R.
Tire Wire Products Co., Inc., Chicago, Ill. Wire designed to prevent skidding for use in the manufacture of tires. Serial No. 642,321, Dec. 8. Class 14.
Toddler Craft Co., Philadelphia, Pa. Children's coats, legging sets and snow suits. Serial No. 630,690, Dec. 8. Class 39.
Twentieth Century-Fox Film Corporation, New York, N. Y. Motion picture films, and camera lenses and projection lenses. Serial No. 648,708, Dec. 8. Class 26.
Twin Coach Company, Kent, Ohio. Truck bodies. Serial No. 635,500, Dec. 8. Class 19.
Unibilt Metal Products, Inc., Brooklyn, N. Y. Radiator shields. Serial No. 647,382, Dec. 8. Class 34.
Union Carbide and Carbon Corporation, New York, N. Y. Ferrous metal alloys. Serial No. 643,622, Dec. 8. Class 14.
Unit Parts Company, Oklahoma City, Okla. Rebuilt automotive parts. Serial No. 647,325, Dec. 8. Class 21.
United Glove and Mitten Co., Inc., St. Paul, Minn. Gloves and mittens. Serial No. 638,743, Dec. 8. Class 39.
U. S. Electrical Motors, Inc., Los Angeles, Calif. Liquid level gauge. Serial No. 648,064, Dec. 8. Class 26.
United States Rubber Company, New York, N. Y. Women's rubber soled shoes. Serial No. 644,700, Dec. 8. Class 39.
United States Rubber Company, New York, N. Y. Cellular or sponge rubber sheets or slabs. Serial No. 647,326, Dec. 8. Class 1.
United States Rubber Company, New York, N. Y. Pulley lagging of rubber or rubber and fabric. Serial No. 648,709, Dec. 8. Class 35.
Vico Products Company, Chicago, Ill. Yeast protein hydrolysate. Serial No. 645,449, Dec. 8. Class 46.
Victor Gloves Inc., New York, N. Y. Ladies' foot socks. Serial No. 645,609, Dec. 8. Class 39.
Voros, Philip and Phyllis, Los Angeles, Calif. Special formula bread and dry bread mix. Serial No. 644,080, Dec. 8. Class 46.
W-S Dari-Delite of Illinois, Inc., Joliet, Ill. Fruit flavored toppings. Serial Nos. 608,577–8, Dec. 8. Class 46.
Wagner-Green Company, The, Cleveland, Ohio. Stationary car heaters. Serial No. 621,600, Dec. 8. Class 34.
Ward Leonard Electric Company, Mount Vernon, N. Y. Compensator for control of the generator frequency and output voltage of a motor-generator set. Serial No. 633,232, Dec. 8. Class 21.
Webb Manufacturing Company, Philadelphia, Pa. General purpose cleaning cloth and dishcloth. Serial No. 638,459, Dec. 8. Class 42.
Welger Weed & Company, Detroit, Mich. Alloys in bar, rod and slab form. Serial Nos. 641,104–5, Dec. 8. Class 14.
Westerland Products, Inc., Chicago, Ill. Plastic boots, raincoats and rain hats. Serial No. 640,058, Dec. 8. Class 39.
Weyenberg Shoe Manufacturing Company, doing business under the name and style of Hubbard Shoe Co., Milwaukee, Wis. Babies' shoes. Serial No. 641,650, Dec. 8. Class 39.
Whitaker Cable Corporation, North Kansas City, Mo. Ignition sets for internal combustion engines and parts of said sets. Serial No. 647,249, Dec. 8. Class 21.
Wild Acres Turkey Farm: *See*—
Adams, Frederick C.
Willard Storage Battery Company, Cleveland, Ohio. Storage batteries. Serial No. 647,822, Dec. 8. Class 21.
Williams, H., & Son Limited, St. Albans, England. Hand tools, cutting tools. Serial No. 615,594, Dec. 8. Class 23.
Wipette Sportswear, Inc., New York, N. Y. Women's, misses' and junior misses' dresses, suits, evening gowns, etc. Serial No. 640,539, Dec. 8. Class 39.
Wittek Manufacturing Co., Chicago, Ill. Roll feeds, roll stands and stock straighteners. Serial No. 640,876, Dec. 8. Class 23.
Wollensak Optical Company, Rochester, N. Y. Telescopes. Serial No. 631,835, Dec. 8. Class 26.
Zonolite Company, Chicago, Ill. Insulating and building materials. Serial No. 635,245, Dec. 8. Class 12.

LIST OF REGISTRANTS OF TRADE-MARKS

AaBe Wollenstoffen- en Wollendekenfabrieken N. V., Tilburg, Netherlands. Woolen blankets. 583,394–5, Dec. 8; Serial Nos. 637,561–2, published Sept. 15, 1953. Class 42.
Adams, William, Limited, Birmingham, England. Waiters, entree dishes, teasets, etc. 583,343, Dec. 8; Serial No. 631,709, published Aug. 4, 1953. Class 28.
Aerotherm Corporation, The, Bantam, Conn. Aircraft seats. 583,505, Dec. 8; Serial No. 648,344, published Sept. 22, 1953. Class 19.
Agfa Camera Werk München, Munich, Germany. Daylight developing tank. 583,482, Dec. 8; Serial No. 644,587, published Sept. 8, 1953. Class 26.
Airex Corporation, New York, N. Y. Fishing and spinning reels, fishing and spinning rods, etc. 583,508, Dec. 8; Serial No. 649,860, published Sept. 22, 1953. Class 22.
Akhtar, Jamil, doing business as India Cosmetic Co., Detroit, Mich. Incense. 583,413, Dec. 8; Serial No. 639,975, published Sept. 15, 1953. Class 6.
Aktiebolaget Addo, Malmo, Sweden. Adding and calculating machines and cash control and bookkeeping machines and parts. 583,405, Dec. 8; Serial No. 638,887, published Sept. 1, 1953. Class 26.
Aktieselskab Quality Canning Co. Limited, assignor to Trygve Olsen & Co. Aktieselskab, Stavanger, Norway. Canned sardines. 583,360, Dec. 8; Serial No. 633,289, published Aug. 4, 1953. Class 46.
Albers Bros. Milling Co., San Francisco, to Albers Milling Company, Los Angeles, Calif. Compound flour. 95,192, re-renewed Feb. 3, 1954. O. G. Dec. 8. Class 46.
Albers Milling Company: *See*—
Albers Bros. Milling Co.
Allied Commercial Corp., New York, N. Y. Electrically heated irons for massage and heat treatment. 583,387, Dec. 8; Serial No. 636,957, published Sept. 22, 1953. Class 44.
Allied Petroleum Corporation, to Industrial Oil Corporation, Warren, Pa. Lubricating oils. 306,912, renewed Oct. 3, 1953. O. G. Dec. 8. Class 15.
Allied Petroleum Corporation, to Industrial Oil Corporation, Warren, Pa. Lubricating oils. 307,531, renewed Oct. 31, 1953. O. G. Dec. 8. Class 15.
Allied Petroleum Corporation, to Industrial Oil Corporation, Warren, Pa. Lubricating oils. 308,229, renewed Nov. 28, 1953. O. G. Dec. 8. Class 15.
Allied Seed Company, Inc.: *See*—
Wood, Stubbs & Co.
Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Machinery—namely, gyratory crushers, etc. 583,275, Dec. 8; Serial No. 612,231, published Aug. 25, 1953. Class 23.
Aluminum Company of America, assignee: *See*—
Aluminum Seal Company, Inc.
Aluminum Foils, Inc., New York, N. Y. Metal sheets and particularly foils of aluminum and aluminum alloys. 583,338, Dec. 8; Serial No. 630,371, published Sept. 15, 1953. Class 14.
Aluminum Seal Company, Inc., Richmond, Ind., assignor to Aluminum Company of America, Pittsburgh, Pa. Caps and closure seals for bottles, cans and jars. 583,254, Dec. 8; Serial No. 572,887, published Sept. 1, 1953. Class 50.
American Automatic Devices Co., Chicago, Ill. Automotive accessories. 583,278, Dec. 8; Serial No. 614,644, published Sept. 22, 1953. Class 19.
American Brake Shoe Company, New York, N. Y. Rubber-fibre tie pads designed to be used in conjunction with railroad tie plates. 583,352, Dec. 8; Serial No. 632,281, published Sept. 1, 1953. Class 50.
American Club Beverages: *See*—
White, Maurice J.
American Foundry Equipment Company, The, to American Wheelabrator & Equipment Corporation, Mishawaka, Ind. Machines for discharging streams of abrasive particles to clean castings, etc. 306,045, renewed Sept. 5, 1953. O. G. Dec. 8. Class 23.
American Home Products Corporation: *See*—
Wyeth, John, and Brother Incorporated.

American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 310,060, renewed Feb. 13, 1954. O. G. Dec. 8. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 310,070, renewed Feb. 13, 1954. O. G. Dec. 8. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 310,115, renewed Feb. 13, 1954. O. G. Dec. 8. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 310,122, renewed Feb. 13, 1954. O. G. Dec. 8. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 310,137, renewed Feb. 13, 1954. O. G. Dec. 8. Class 49.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 310,434, renewed Feb. 27, 1954. O. G. Dec. 8. Class 49.
American Suralloy Steel Corporation, Cleveland, Ohio. Road plow and scraper metal blades; metal bars and metal plates. 583,397, Dec. 8; Serial No. 637,900, published July 21, 1953. Class 23.
American Wheelabrator & Equipment Corporation: *See*—
American Foundry Equipment Company, The.
Anchor Hocking Glass Corporation, Lancaster, Ohio. Closure caps. 583,264, Dec. 8; Serial No. 595,584, published Aug. 25, 1953. Class 50.
Anson, Art, Inc., Allentown, Pa. Door knob covers. 583,443, Dec. 8; Serial No. 642,196, published Sept. 1, 1953. Class 50.
Aristocrat Leather Products, Inc., New York, N. Y. Wallets and billfolds. 583,432, Dec. 8; Serial No. 641,490, published Sept. 1, 1953. Class 3.
Arkwright, Incorporated, New York, N. Y. Sewing machine needles, hand operated meat grinders, fruit juice mixers and can openers; etc. 583,347, Dec. 8; Serial No. 632,109, published Aug. 18, 1953. Class 23.
Armour and Company, Chicago, Ill. Quaternary ammonium compositions. 583,406, Dec. 8; Serial No. 639,006, published Aug. 4, 1953. Class 18.
Armstrong Cork Company, Lancaster, Pa. Container closures. 583,396, Dec. 8; Serial No. 637,637, published Sept. 1, 1953. Class 50.
Art-Mor Togs Inc., New York, N. Y. Ladies' and misses' ensembles. 583,323, Dec. 8; Serial No. 614,607. Class 39.
Asam Wallpapers, Inc., Philadelphia and Reading, Pa. Wallpaper. 583,270, Dec. 8; Serial No. 605,249, published Sept. 1, 1953. Class 37.
Asphalt Maintenance Company: *See*—
Moore, Clark.
Associated Plastics Company, Inc., New York, N. Y. Ladies' handbags. 583,475–6, Dec. 8; Serial Nos. 644,156–7, published Sept. 8, 1953. Class 3.
Augenfeld, Felix, New York, N. Y. Stands, wall panels and shelves. 583,518, Dec. 8; Serial No. 587,930. Class 32.
Auto-Bet Co.: *See*—
Marquette, Arthur F.
Babson Bros. Co., Chicago, Ill. Vacuum operated clippers. 583,444, Dec. 8; Serial No. 642,256, published Aug. 25, 1953. Class 23.
Bailey, Malcolm, Sr., Tampa, Fla. Mechanically operable attachment for internal combustion engine carburetors. 583,408, Dec. 8; Serial No. 639,309, published Sept. 8, 1953. Class 26.
Barbara Jean's Beauty Sheer Hosiery, Inc., Penndel, Pa. Women's hosiery and undergarments. 583,370, Dec. 8; Serial No. 634,289, published Sept. 8, 1953. Class 39.
Barrett, Haentiens & Co., Hazleton, Pa. Stuffing box for a mechanical joint. 583,529, Dec. 8; Serial No. 631,531. Class 23.
Battenfeld Grease & Oil Corp., Kansas City, Mo. Detachable spouts for caulking guns. 583,535, Dec. 8; Serial No. 635,896. Class 13.
Beaumart Co., New York, N. Y. Ladies' and misses' dresses. 583,533, Dec. 8; Serial No. 648,835. Class 39.
Belenky Bros., Inc., New York, N. Y. Bracelets, necklaces, chokers, etc. 583,350, Dec. 8; Serial No. 632,197, published Aug. 4, 1953. Class 28.
Bell Brand Foods, Ltd., Vernon, Calif. Potato chips, cheese puffs, corn chips, etc. 583,519, Dec. 8; Serial No. 603,726. Class 46.
Bellco Glass, Inc., Vineland, N. J. Laboratory and scientific glassware. 583,449, Dec. 8; Serial No. 642,931, published Sept. 15, 1953. Class 26.
Berry Bros. & Co., to Berry Bros. & Rudd Limited, London, England. Spirits—namely, whisky and other potable distilled liquors. 306,022, renewed Sept. 5, 1953. O. G. Dec. 8. Class 49.
Berry Bros. & Co., to Berry Bros. & Rudd Limited, London, England. Scotch whisky. 307,412, renewed Oct. 24, 1953. O. G. Dec. 8. Class 49.
Berry Bros & Rudd Limited: *See*—
Berry Bros. & Co.
Binita Gift Wares, Chicago, Ill. Decorative artificial fruits. 583,310, Dec. 8; Serial No. 625,956, published Aug. 25, 1953. Class 50.
Bio-Supply Co.: *See*—
Wilson, Kent H.
Bisquit Dubouche & Cie Laporte Bisquit & Cie succrs.: *See*—
Shaw, Alex D., & Co.
Bloom, Charles, Inc., New York, N. Y. Fabrics in the piece. 583,421, Dec. 8; Serial No. 640,667, published Sept. 15, 1953. Class 42.
Borgfeldt, Geo., Corporation, New York, N. Y. Porcelain and earthenware. 583,424, Dec. 8; Serial No. 640,906, published July 28, 1953. Class 30.
Boston Beer Company, South Boston, Mass. Beer. 583,537, Dec. 8; Serial No. 636,626. Class 48.
Brand, William, and Co. Inc., The, Willimantic, Conn. Insulating material for electrical insulation. 583,484, Dec. 8; Serial No. 644,893, published Sept. 1, 1953. Class 21.
Brandenfels, Carl, St. Helens, Oreg. Massaging and manipulating devices. 583,454, Dec. 8; Serial No. 643,278, published Sept. 22, 1953. Class 44.
Brenner, Alexander E., Columbus, Ohio. Portable fire extinguishers. 583,257, Dec. 8; Serial No. 585,697, published July 7, 1953. Class 23.
Brock & Rankin, Inc., Chicago, Ill. Loose-leaf binders and book covers. 583,309, Dec. 8; Serial No. 625,845, published Sept. 1, 1953. Class 37.
Budd, Charles, Corporation, New Rochelle, assignor, by mesne assignments, to The Custanite Corporation, Westchester County, N. Y. Soft hammers. 583,283, Dec. 8; Serial No. 616,408, published June 30, 1953. Class 23.
Burke Golf Equipment Corporation, Newark, Ohio. Golf balls. 583,322, Dec. 8; Serial No. 628,466, published Sept. 15, 1953. Class 22.
Burke Golf Equipment Corporation, Newark, Ohio. Golf clubs and golf balls. 583,345, Dec. 8; Serial No. 632,072, published Sept. 15, 1953. Class 22.
Burke Golf Equipment Corporation, Newark, Ohio. Golf clubs. 583,346, Dec. 8; Serial No. 632,073, published Sept. 15, 1953. Class 22.
Burlington Mills Corporation, Greensboro, N. C. Textile ribbons. 583,268, Dec. 8; Serial No. 601,018, published Sept. 15, 1953. Class 42.
Camembert Industrie Heising, Hirschle & Immler, Heising, Germany. Cheese. 309,358, renewed Jan. 9, 1954. O. G. Dec. 8. Class 46.
Capital City Products Company, The, Columbus, Ohio. Mayonnaise, cooking oil, and French dressing. 308,629, renewed Dec. 12, 1953. O. G. Dec. 8. Class 46.
Caponette, Simon L., doing business under the name House of Louis, Boston and North Andover, Mass. Hair pomade. 583,307, Dec. 8; Serial No. 624,730, published Sept. 8, 1953. Class 51.
Car Parts Depot, Inc., El Paso, Tex. Automotive equipment. 583,426, Dec. 8; Serial No. 641,013, published Aug. 25, 1953. Class 23.
Carter, William, Company, The, Needham Heights, Mass. Women's and girls' pants. 583,493, Dec. 8; Serial No. 645,462, published Sept. 8, 1953. Class 39.
Celanese Corporation of America, assignee: *See*—
Marco Chemicals, Inc.
Chadwick, Earl L., doing business as Earl L. Chadwick Company, Portland, Oreg. Power-agitated machines for cleaning small parts, accessory tools, and combination shearing, trimming, and edging tools. 583,363, Dec. 8; Serial No. 633,712, published Aug. 11, 1953. Class 23.
Chadwick, Earl L., Company: *See*—
Chadwick, Earl L.
Chiklip Company, New York, N. Y. Antipicking poultry blinders. 583,289, Dec. 8; Serial No. 620,772, published Aug. 25, 1953. Class 50.
Ciba Pharmaceutical Products, Inc.: *See*—
Society of Chemical Industry in Basle.
Clark Bros. Co., Inc., assignor to Dresser Operations, Inc., Olean, N. Y. Centrifugal compressors, axial flow compressors, gas turbines, etc. 583,274, Dec. 8; Serial No. 610,246, published July 7, 1953. Class 23.
Clark's, Mary, Happy Heart Kitchens, Los Angeles, Calif. Fudge candy, orange date pudding, plum pudding, etc. 583,305, Dec. 8; Serial No. 624,129, published Aug. 25, 1953. Class 46.
Clayton Carpet Mills, Spartanburg, S. C. Woven carpets. 583,542, Dec. 8; Serial No. 639,553. Class 42.
Cochran Foil Company, doing business as Cochran Foil Products Co., Louisville, Ky. Paper backed aluminum foil. 583,433, Dec. 8; Serial No. 641,501, published Sept. 1, 1953. Class 37.
Cochran Foil Products Co.: *See*—
Cochran Foil Company.
Coleman Motors Corporation, The, Littleton, Colo. Motor driven tractor. 583,288, Dec. 8; Serial No. 620,461, published Aug. 11, 1953. Class 23.
Colwell Litho Products Inc., Minneapolis, Minn. Photographic exposure frames. 583,477, Dec. 8; Serial No. 644,224, published Sept. 8, 1953. Class 26.
Converted Rice, Inc., Houston, Tex. Rice. 583,384, Dec. 8; Serial No. 636,773, published Sept. 8, 1953. Class 46.
Convery, John, doing business as Television Corporation of America, Alameda, Calif., and Washington, D. C. Producing motion picture film. 583,511, Dec. 8; Serial No. 602,022, published Sept. 8, 1953. Class 107.
Copper Boiler and Heater Wks.: *See*—
Kawalle, Karl J.

Cosmotone Laboratories: *See*—
Faulkner, Henry H.

Cottage Products, Incorporated, New York, N. Y. Partially baked frozen waffles. 583,465, Dec. 8; Serial No. 643,659, published Sept. 15, 1953. Class 46.

Courtaulds, Inc.: *See*—
Courtaulds, Limited.

Courtaulds, Limited, London, England, to Courtaulds, Inc., New York, N. Y. Cellulose filaments, etc. 237,082, Jan. 3, 1928. New certificate. O. G. Dec. 8. Class 43.

Courtaulds, Limited, London, England, to Courtaulds, Inc., New York, N. Y. Yarns. 281,184, Mar. 10, 1931. New certificate. O. G. Dec. 8. Class 43.

Courtaulds, Limited, London, England, to Courtaulds, Inc., New York, N. Y. Raw fibrous textile materials, etc. 571,625, Mar. 10, 1953. New certificate. O. G. Dec. 8. Class 1.

Crown Fabrics Corporation, New York, N. Y. Rayon and cotton goods in the piece. 309,869, renewed Feb. 6, 1954. O. G. Dec. 8. Class 42.

Culligan, Inc., Northbrook, Ill. Desiccant. 583,491, Dec. 8; Serial No. 645,395, published Sept. 15, 1953. Class 6.

Cullman Wheel Company, Chicago, Ill. Sprocket wheels. 583,348, Dec. 8; Serial No. 632,156, published July 14, 1953. Class 23.

Custanite Corporation, The, assignee: *See*—
Budd, Charles, Corporation.

Cutler-Hammer, Inc., Milwaukee, Wis. Panelboards embodying electric circuit breakers. 583,282, Dec. 8; Serial No. 616,369, published Sept. 1, 1953. Class 21.

Dan River Mills, Incorporated, Danville, Va. Textile fabrics. 583,490, Dec. 8; Serial No. 645,360, published Sept. 15, 1953. Class 42.

Dapag (1943) Limited, London, England. Printing machines and parts thereof. 583,296, Dec. 8; Serial No. 621,958, published July 21, 1953. Class 23.

Day-Brite Lighting, Inc., St. Louis, Mo. Fluorescent lighting fixtures and parts thereof. 583,361, Dec. 8; Serial No. 633,302, published Sept. 8, 1953. Class 21.

Dayton Rubber Company, The, Dayton, Ohio. Rubber vehicle tires. 580,231, Sept. 22, 1953. Corrected. O. G. Dec. 8. Class 35.

De Angelis, Raffaele, doing business under the name of Thymoform Company, Providence, R. I. Disinfectant. 583,494, Dec. 8; Serial No. 645,467, published Sept. 15, 1953. Class 6.

Decatur Pump Company, Decatur, Ill. Water pumps and water pumping units. 583,380, Dec. 8; Serial No. 636,063, published Aug. 4, 1953. Class 23.

De Leon Peanut Company, De Leon, Tex. Shelled peanuts. 310,239, renewed Feb. 13, 1954. O. G. Dec. 8. Class 46.

Diamond Saw Works, Inc., Buffalo, N. Y. Metal cutting saw blades and frames. 583,459, Dec. 8; Serial No. 643,541, published July 14, 1953. Class 23.

Dickman & Wyrsch, Cupertino, Calif. Medicine for treating the genitals of animals. 583,364, Dec. 8; Serial No. 633,719, published Aug. 4, 1953. Class 18.

Dictaphone Corporation, Bridgeport, Conn. Electrically-operated microphones and loudspeakers. 583,375, Dec. 8; Serial No. 635,124, published Sept. 8, 1953. Class 21.

Diebold, Incorporated, Canton, Ohio. Making photographic prints, developing and printing photographic films, etc. 583,510, Dec. 8; Serial No. 585,108, published Sept. 15, 1953. Class 103.

Disston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. 94,719, Dec. 30, 1913. Republished Dec. 8. Class 23.

Doughboy Industries, Inc., New Richmond, Wis. Poultry feeds. 583,272, Dec. 8; Serial No. 607,421, published Sept. 8, 1953. Class 46.

Doulton & Co., Limited, Burslem and London, England. Earthenware articles. 583,473, Dec. 8; Serial No. 643,824, published July 28, 1953. Class 30.

Dresser Operations, Inc., assignee: *See*—
Clark Bros. Co., Inc.

Duode Limited, London, England. Loud speakers. 583,391, Dec. 8; Serial No. 637,365, published Sept. 1, 1953. Class 21.

Eagle Clothes, Inc., New York, N. Y. Piece goods. 583,294, Dec. 8; Serial No. 621,456, published Sept. 15, 1953. Class 42.

Economy Fuse and Manufacturing Co., Chicago, Ill. Electrical fuses. 583,418, Dec. 8; Serial No. 640,503, published Sept. 8, 1953. Class 21.

Electro Manufacturing Corporation, Chicago, Ill. Fluorescent lighting units. 583,327, Dec. 8; Serial No. 629,727, published Sept. 8, 1953. Class 21.

Emanee Office Supply Co., Chicago, Ill. Loose leaf binders; writing paper; lead pencils; etc. 583,266, Dec. 8; Serial No. 599,820, published Sept. 1, 1953. Class 37.

Embassy Chocolate Products Company, Los Angeles, Calif. Candy. 583,287, Dec. 8; Serial No. 619,538, published Jan. 27, 1953. Class 46.

Empire Brushes, Inc., Port Chester, N. Y. Men's nylon brush and comb sets. 583,530, Dec. 8; Serial No. 631,655. Class 40.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Arc welding machines. 583,445, Dec. 8; Serial No. 642,394, published Sept. 15, 1953. Class 21.

Fairbridge Co. Incorporated, Bridgeport, Conn. Magnifying lens attachments. 583,438, Dec. 8; Serial No. 642,027, published Sept. 15, 1953. Class 26.

Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Propellers. 583,291, Dec. 8; Serial No. 620,843, published Sept. 22, 1953. Class 19.

Fairfield Engineering Company, The, Marion, Ohio. Mixing machinery, hammermills, portable belt and drag conveyors and car unloaders, etc. 583,412, Dec. 8; Serial No. 639,816, published Aug. 18, 1953. Class 23.

Family Shoe Store: *See*—
Vaters, John, Jr.

Family Shoe Stores: *See*—
Vaters, John, Jr.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Synthetic plastic materials. 583,388, Dec. 8; Serial No. 636,972, published Sept. 15, 1953. Class 6.

Faulkner, Henry H., doing business as Cosmotone Laboratories, Los Angeles, Calif. Gray hair preparations. 583,293, Dec. 8; Serial No. 621,396, published May 12, 1953. Class 51.

Federal Sweets & Biscuit Co., Inc., Clifton, N. J. Candy. 583,365, Dec. 8; Serial No. 633,760, published Jan. 27, 1953. Class 46.

Feldman Fruit Company: *See*—
Feldman, Harry.

Feldman, Harry, doing business as Feldman Fruit Company, East Chicago, Ind. Onions. 583,457, Dec. 8; Serial No. 643,414, published Aug. 4, 1953. Class 46.

Feuerheerd Brothers & Companhia Limitada: *See*—
Feuerheerd Brothers & Company, Limited.

Feuerheerd Brothers & Company, Limited, St. Helier, Jersey, Channel Islands, to Feuerheerd Brothers & Companhia Limitada, Oporto, Portugal. Port wine. 309,208, renewed Jan. 9, 1954. O. G. Dec. 8. Class 47.

Firestone Tire & Rubber Company, The, Akron, Ohio. Vehicle tires. 580,262, Sept. 22, 1953. Corrected. O. G. Dec. 8. Class 35.

First National Bank of Chicago, The, Chicago, Ill. Printed forms. 306,637, renewed Sept. 26, 1953. O. G. Dec. 8. Class 37.

Fischl, Louis, Glove Co. Ltd., Prescott, Ontario, Canada. Leather and fabric gloves. 583,378, Dec. 8; Serial No. 635,826, published Sept. 8, 1953. Class 39.

Flavor Corporation of America, Chicago, Ill. Liquid concentrate of flavoring materials. 583,460, Dec. 8; Serial No. 643,543, published Sept. 15, 1953. Class 46.

Flotill Products, Incorporated, Stockton, Calif. Canned fruits and canned vegetables. 583,478, Dec. 8; Serial No. 644,228, published Sept. 8, 1953. Class 46.

Flxible Company, The, Loudonville, Ohio. Vehicle windshields. 434,953, Dec. 9, 1947. Republished Dec. 8. Class 19.

Foam-Crete, Incorporated, Scranton, Pa. Liquid chemical compound. 583,371, Dec. 8; Serial No. 634,584, published Sept. 15, 1953. Class 6.

Food Specialties, Inc., Plymouth, Mass. Combination package consisting of yeast, flour mixture and pizza sauce. 583,458, Dec. 8; Serial No. 643,481, published Aug. 4, 1953. Class 46.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 583,486, Dec. 8; Serial No. 645,132, published Sept. 15, 1953. Class 42.

Freightliner Corporation, Portland, Oreg. Truck trailers and mtor trucks. 583,277, Dec. 8; Serial No. 613,366, published Sept. 8, 1953. Class 19.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 583,549, Dec. 8; Serial No. 647,492. Class 42.

Fuston, Howard L., Oak Park, Ill. Ignition circuit breakers. 583,340, Dec. 8; Serial No. 631,238, published Sept. 1, 1953. Class 21.

General Motors Corporation, Detroit, Mich. Electric lamps and switches. 583,324, Dec. 8; Serial No. 628,937, published Sept. 8, 1953. Class 21.

General Time Corporation: *See*—
Western Clock Co.

Germantown Manufacturing Company, Philadelphia, Pa. Ice cream stabilizer. 583,488, Dec. 8; Serial No. 645,301, published Aug. 11, 1953. Class 46.

Gilda, Audrey, Products, Inc., New York, N. Y. Sheen rinse, cold wave solution, cream oil solution, etc. 583,256, Dec. 8; Serial No. 581,240, published Dec. 18, 1951. Class 51.

Globe Distributing Company, The, Washington, D. C. Wines. 583,456, Dec. 8; Serial No. 646,303. Class 47.

Godfrey, G. R., Company, Gardner, Mass. Pocketbooks, purses, and wallets. 583,474, Dec. 8; Serial No. 643,902, published Sept. 8, 1953. Class 3.

Golden, C. W., doing business as Golden Lithograph Company, San Francisco, Calif. Collapsible cardboard, box-like containers. 583,545, Dec. 8; Serial No. 643,676. Class 2.

Golden Lithograph Company: *See*—
Golden, C. W.

Golden Dawn Foods: *See*—
Rosenblum, Nathan, & Company.

Good Luck Glove Company, Carbondale, Ill. Fabric work gloves. 583,376, Dec. 8; Serial No. 635,132, published Sept. 8, 1953. Class 39.

Graham, John H. & Co., Inc., New York, N. Y. Garden and lawn cultivators. 583,419, Dec. 8; Serial No. 640,511, published July 21, 1953. Class 23.

Gramercy Cane Wax Plant: *See*—
Johnson, S. C., & Son, Inc.

Great Bear Spring Company, New York, N. Y. Ice cooled or electrically operated water coolers. 310,331, renewed Feb. 20, 1954. O. G. Dec. 8. Class 31.

Great Western Sugar Company, The, Denver, Colo. Sugar. 583,495, Dec. 8; Serial No. 645,481, published Sept. 8, 1953. Class 46.

Green, M. D., Rice Milling Co.: *See*—
Green, Monroe D.

Green, Monroe D., trading as M. D. Green Rice Milling Co., San Francisco, Calif. Rice. 583,273, Dec. 8; Serial No. 607,547, published Aug. 4, 1953. Class 46.

Greif, L., & Bro., Inc., Baltimore, Md. Coats, vests, trousers, and overcoats. 221,126, Nov. 23, 1926. Republished Dec. 8. Class 39.

Grubman, Mark M., New York, N. Y. Necktie clasps. 583,548, Dec. 8; Serial No. 647,414. Class 40.

Hager, E. F., & Son, Queens Village, N. Y. Grinder machines. 583,516, Dec. 8; Serial No. 566,079. Class 23.

Halter's Pretzels, Inc., Canton, Ohio. Pretzels and pretzel sticks. 583,328, Dec. 8; Serial No. 629,944, published Sept. 8, 1953. Class 46.

Harmon & Reid, Grants, N. Mex. Fresh vegetables. 583,547, Dec. 8; Serial No. 649,150. Class 46.

Haskell, Charles C., & Co., Inc., Richmond, Va. Medicinal preparation. 583,439, Dec. 8; Serial No. 642,032, published Aug. 18, 1953. Class 18.

Heatilator, Inc., Syracuse, N. Y. Sheet metal basement entrance units. 583,377, Dec. 8; Serial No. 635,650, published Sept. 8, 1953. Class 12.

Hercules Powder Company, Wilmington, Del. Dynamite. 95,099, re-renewed Feb. 3, 1954. O. G. Dec. 8. Class 9.

Hercules Powder Company, Wilmington, Del. Dry core binders in casting metals. 308,736, renewed Dec. 19, 1953. O. G. Dec. 8. Class 5.

Herdegen, Charles L., Fullerton, Calif. Ozone generators. 583,276, Dec. 8; Serial No. 612,739, published May 20, 1952. Class 21.

Herrmann Handkerchief Company, Inc., The, New York, N. Y. Handkerchiefs. 583,427, Dec. 8; Serial No. 641,138, published Sept. 8, 1953. Class 39.

Hoffco, Inc., Richmond, Ind. Power-operated sickle-bar mowing machines. 583,258, Dec. 8; Serial No. 586,412, published Aug. 11, 1953. Class 23.

Houghton, E. F., & Co., Philadelphia, Pa. Carbonizing compounds, disinfectants, compounds for preventing oxidation, etc. 93,995, Oct. 28, 1913. Republished Dec. 8. Class 6.

Houghton, E. F., & Co., Philadelphia, Pa. Lubricating oils; lubricating greases, tempering oils, etc. 94,638, Dec. 23, 1913. Republished Dec. 8. Class 15.

House of Louis: *See*—
Caponette, Simon L.

Howell, William R.: *See*—
Ranger Ice Cream Company.

Hudson Products: *See*—
Wernet Dental Mfg. Co., Inc.

Hugetz, Edward, New York, N. Y. Fountain, stylographic, ball point and other mechanical pens, mechanical pencils, etc. 583,312, Dec. 8; Serial No. 626,569, published Sept. 15, 1953. Class 37.

Huron Milling Company, The, Harbor Beach, Mich. Monosodium glutamate for food seasoning purposes. 583,521, Dec. 8; Serial No. 611,132. Class 46.

Hydra-Feed Machine Tool Corporation, The, Norwalk, Conn., formerly The Sparks Machine Tool Corporation. Heavy duty lathes. 583,281, Dec. 8; Serial No. 615,503, published Aug. 11, 1953. Class 23.

Ibroc Wood Products Co.: *See*—
Meltzer, Robert M.

Illinois Clay Products Company, Joliet, Ill. Refractory brick. 583,260, Dec. 8; Serial No. 588,301, published Sept. 8, 1953. Class 12.

Imperial Knife Company, Inc., Providence, R. I. Cutlery. 583,326, Dec. 8; Serial No. 629,165, published Aug. 11, 1953. Class 23.

India Cosmetic Co.: *See*—
Akhtar, Jamil.

Industrial Oil Corporation: *See*—
Allied Petroleum Corporation.

Industrial Shipping Company Limited, Mahone Bay, Lunenburg, Nova Scotia, Canada. Wooden boats and unfinished hulls of boats. 583,446, Dec. 8; Serial No. 642,553, published Sept. 15, 1953. Class 19.

Industrial Tectonics, Inc., Ann Arbor, Mich. Precision machined balls. 583,392, Dec. 8; Serial No. 637,378, published July 21, 1953. Class 23.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Threading equipment for rock drill steel rods. 583,400, Dec. 8; Serial No. 638,420, published July 21, 1953. Class 23.

Inland Products, Inc., Columbus, Ohio. Canned dog food. 583,468, Dec. 8; Serial No. 643,764, published Aug. 4, 1953. Class 46.

International Projector Corporation, Bloomfield, N. J., assignee of Sec-O-Matic Corporation. Solvent recovery machines for recovering cleaning solvents in dry cleaning operations. 583,269, Dec. 8; Serial No. 602,340, published Sept. 22, 1953. Class 24.

Inwood, Louis R., Kansas City, Mo. Coin operated vending machine. 583,431, Dec. 8; Serial No. 641,449, published July 21, 1953. Class 23.

Irwin, Neisler & Company, Decatur, Ill. Preparation to be administered intravenously for the relief of eclampsia, etc. 583,450, Dec. 8; Serial No. 643,038, published Aug. 18, 1953. Class 18.

Jackson and Church Company, Saginaw, Mich. Pre-cast bricks and blocks. 583,351, Dec. 8; Serial No. 632,250, published Sept. 8, 1953. Class 12.

Jet-Ball Game Company, St. Louis, Mo. Mechanical tennis-simulating table game. 583,297, Dec. 8; Serial No. 622,020, published Sept. 15, 1953. Class 22.

Johnson, S. C., & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis. Sugar cane wax for industrial purposes. 583,329–36, Dec. 8; Serial Nos. 630,076–83, published Sept. 22, 1953. Class 6.

Kaeser & Blair, Incorporated, Cincinnati, Ohio. Bond papers. 583,399, Dec. 8; Serial No. 637,995, published Sept. 15, 1953. Class 37.

Katz, Eric, Los Angeles, Calif. Pliers, knives, nippers, and shears. 583,317, Dec. 8; Serial No. 627,301, published July 21, 1953. Class 23.

Katz, Max, Bag Company Inc., Indianapolis, Ind. Tarpaulins, burlap covers, canvas covers, etc. 583,295, Dec. 8; Serial No. 621,886, published Aug. 25, 1953. Class 50.

Kawalle, Karl J., doing business under the name of Copper Boiler and Heater Wks., Manitowoc, Wis. Automatic electric water heaters, and electric fired heating boilers. 583,415, Dec. 8; Serial No. 640,285, published Sept. 1, 1953. Class 21.

Kidde, Walter, & Company, Inc., Belleville, N. J. Portable fire extinguishers. 583,284, Dec. 8; Serial No. 617,299, published June 30, 1953. Class 23.

Kleckhefer Container Company, Milwaukee, Wis., to Kleckhefer Container Company, Camden, N. J. Paperboard shipping baskets. 309,344, renewed Jan. 9, 1954. O. G. Dec. 8. Class 2.

Kleinert, I. B., Rubber Company, New York, N. Y. Ladies' undergarments. 304,588, July 11, 1933. Republished Dec. 8. Class 39.

Kliegl Bros. Universal Electric Stage Lighting Co., Inc., New York, N. Y. Electrical apparatus. 583,498, Dec. 8; Serial No. 645,718, published Sept. 15, 1953. Class 21.

Kochs Adlernaehmaschinen Werke, A. G., Bielefeld, Federal Republic of Western Germany. Domestic and industrial sewing machines and sewing machine attachments and parts thereof. 583,279–80, Dec. 8; Serial Nos. 615,261–2, published Aug. 18, 1953. Class 23.

Kork-Ease, Inc., Brooklyn, N. Y. Sandals. 583,533, Dec. 8; Serial No. 632,621. Class 39.

Kotkins, Henry L., doing business as Skyway Luggage Company, Seattle, Wash. Men's and women's hand luggage. 583,479, Dec. 8; Serial No. 644,325, published Sept. 8, 1953. Class 3.

Kunreuther & Merfeld: *See*—
Schafer, Friedrich.

Labatt, John, Limited, London, Ontario, Canada. Lager beer. 583,253, Dec. 8; Serial No. 571,647, published Sept. 8, 1953. Class 48.

Lambert, Adelor A., Round Lake, Ill. Electrical signal light. 583,525, Dec. 8; Serial No. 618,048. Class 21.

Leather Specialty Co., The, Cincinnati, Ohio. Overnight bag. 583,544, Dec. 8; Serial No. 642,860. Class 3.

Lee, T. Kong, San Francisco, Calif. Food seasoning powder. 539,579, July 6, 1948. Republished Dec. 8. Class 46.

Leeds Ltd. Coats, Inc., New York, N. Y. Ladies' and misses' coats and suits. 583,550, Dec. 8; Serial No. 647,701. Class 39.

Leeds Ltd. Coats, Inc., New York, N. Y. Ladies' and misses' coats and suits. 583,551, Dec. 8; Serial No. 647,939. Class 39.

Leeds Ltd. Coats, Inc., New York, N. Y. Women's, misses' and juniors' coats, suits, jackets, etc. 583,552, Dec. 8; Serial No. 647,980. Class 39.

Leichter, Emil, New York, N. Y. Watchmakers' and watch repairmen's tools and supplies. 583,262, Dec. 8; Serial No. 591,300, published Aug. 25, 1953. Class 23.

Leslie Co., Lyndhurst, N. J. Diaphragm-operated valves, diaphragm-operated reducing valves, diaphragm-operated pilot regulating valves, etc. 583,267, Dec. 8; Serial No. 600,542, published July 7, 1953. Class 23.

Lettuce, Incorporated, Salinas, Calif. Fresh lettuce. 583,374, Dec. 8; Serial No. 634,984, published Sept. 8, 1953. Class 46.

Lincoln Electric Company, The, Cleveland, Ohio. Electric arc-welding apparatus. 583,398, Dec. 8; Serial No. 637,930, published Sept. 1, 1953. Class 21.

Lincoln Laboratories, Inc., Decatur, Ill. Composition for treatment of burns, etc. 583,447, Dec. 8; Serial No. 642,668, published Aug. 18, 1953. Class 18.

Loseff Laboratory: *See*—
Loseff, Samuel S.

Loseff, Samuel S., doing business as Loseff Laboratory, Chicago, Ill. Preparation for the treatment and control of the tobacco habit. 583,302, Dec. 8; Serial No. 623,471, published May 19, 1953. Class 18.

Lowell Covered Rubber Thread Co., Inc., Lowell, Mass. Elastic thread. 583,501, Dec. 8; Serial No. 646,072, published Sept. 8, 1953. Class 43.

Lugene, Inc., New York, N. Y. Rules for alignment of spectacles. 583,451, Dec. 8; Serial No. 643,040, published Sept. 15, 1953. Class 26.

Lustberg, Nast & Co., Inc., New York, N. Y. Men's and boys' finger-tip coats. 583,469, Dec. 8; Serial No. 643,768, published Sept. 8, 1953. Class 39.

Luthy, F. A., Co., Jackson, Mich. Spark plugs. 583,356, Dec. 8; Serial No. 632,844, published Sept. 8, 1953. Class 21.

MacMillan & Bloedel Limited: *See*—
Shull Lumber & Shingle Co.

Magno-Syn-Werk, G. m. b. H., Duisburg am Rhein, Germany. Water purification compound. 583,263, Dec. 8; Serial No. 593,734, published Sept. 15, 1953. Class 6.

Maltex Company: *See*—
Maltex Company, Inc., The.

Maltex Company, Inc., The, by Maltex Company, Burlington, Vt. Breakfast cereal. 383,792, Dec. 24, 1940. Republished Dec. 8. Class 46.

Manischewitz, B., The, Company, Jersey City, N. J., and Cincinnati, Ohio. Crackers. 310,407, renewed Feb. 27, 1954. O. G. Dec. 8. Class 46.

Marco Chemicals, Inc., Linden, N. J., assignor to Celanese Corporation of America. Liquid synthetic resins. 583,354–5, Dec. 8; Serial Nos. 632,624–5, published Sept. 15, 1953. Class 6.

Marquette, Arthur F., doing business under the tradename of Auto-Bet Co., Chicago, Ill. Game. 583,353, Dec. 8; Serial No. 632,567, published Sept. 15, 1953. Class 22.

Marshall-Wells Company, Duluth, Minn. Base balls, basket balls, foot balls, etc. 583,507, Dec. 8; Serial No. 649,800, published Sept. 22, 1953. Class 22.

Marx, Louis, & Co., Inc., New York, N. Y. Toy pistol. 583,489, Dec. 8; Serial No. 645,330, published Sept. 15, 1953. Class 22.

Master Builders Company, The, Cleveland, Ohio. Composition to be used as an ingredient for cement mixes and masonry mortar mixes. 583,409, Dec. 8; Serial No. 639,381, published July 28, 1953. Class 12.

Master Builders Company, The, Cleveland, Ohio. Asphalt composition. 583,416, Dec. 8; Serial No. 640,465, published July 28, 1953. Class 12.

Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

McDerby-Conatser Boat Manufacturers, Denison, Tex. Outboard motor boats. 583,372, Dec. 8; Serial No. 634,748, published Sept. 22, 1953. Class 19.

McNeil Laboratories, Inc., assignee: *See*—
McNeil, Robert L.

McNeil Laboratories, Incorporated: *See*—
McNeil, Robert L.

McNeil, Robert: *See*—
McNeil, Robert L.

McNeil, Robert L. doing business as Robert McNeil, assignor to McNeil Laboratories, Inc., to McNeil Laboratories, Incorporated, Philadelphia, Pa. Medicinal elixirs and capsules. 308,404, renewed Dec. 5, 1953. O. G. Dec. 8. Class 18.

McNeil, Robert L., doing business as Robert McNeil, assignor to McNeil Laboratories, Inc., to McNeil Laboratories, Incorporated, Philadelphia, Pa. Medicinal tablets. 308,405–6, renewed Dec. 5, 1953. O. G. Dec. 8. Class 18.

McNeil, Robert L., doing business as Robert McNeil, assignor to McNeil Laboratories, Inc., to McNeil Laboratories, Incorporated, Philadelphia, Pa. Medicinal elixirs, capsules, and tablets. 308,408, renewed Dec. 5, 1953. O. G. Dec. 8. Class 18.

McNeil, Robert L., doing business as Robert McNeil, assignor to McNeil Laboratories, Inc., to McNeil Laboratories, Incorporated, Philadelphia, Pa. Medicinal lotion. 308,409, renewed Dec. 5, 1953. O. G. Dec. 8. Class 18.

McNeil, Robert L., doing business as Robert McNeil, assignor to McNeil Laboratories, Inc., to McNeil Laboratories, Incorporated, Philadelphia, Pa. Medicinal elixirs. 308,411, renewed Dec. 5, 1953. O. G. Dec. 8. Class 18.

Meltzer, Robert M., doing business under the name and style of Ibroc Wood Products Co., Auburn, Maine. Household butcher block. 583,303, Dec. 8; Serial No. 623,553, published Aug. 4, 1953. Class 23.

Mergenthaler Linotype Company, Brooklyn, N. Y. Metal casting machines. 583,292, Dec. 8; Serial No. 621,218, published July 14, 1953. Class 23.

Meridan Corporation, Chicago, Ill. Stapling machines and mattress making machines and parts thereof, etc. 583,373, Dec. 8; Serial No. 634,908, published Aug. 25, 1953. Class 23.

Metallurgical Laboratories, Inc., Wyndmoor, Pa. Heat treating metals and metal alloys. 583,513, Dec. 8; Serial No. 634,540, published Sept. 8, 1953. Class 106.

Meteor Electric Corporation, Brooklyn, N. Y. Electric connector plugs; electric receptacles; electric cutouts, etc. 583,385, Dec. 8; Serial No. 636,793, published Sept. 1, 1953. Class 21.

Michigan Fruit Canners, Inc., Benton Harbor, Mich. Canned fruit and berry pie fillings. 583,539, Dec. 8; Serial No. 638,092. Class 46.

Miller Electric Manufacturing Co., Appleton, Wis. Electrical welders, spot welders and welding equipment. 583,436, Dec. 8; Serial No. 641,853, published Sept. 15, 1953. Class 21.

Miller-Elmer Manufacturing Co., Ltd., New Orleans, La., to Sun-Maid Raisin Growers of California, Fresno, Calif. Candy. 115,368, Feb. 6, 1917. New certificate. O. G. Dec. 8. Class 46.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Adherent coating compound useful for application to electrical wires, cable splices, etc. 583,386, Dec. 8; Serial No. 636,857, published Sept. 8, 1953. Class 21.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Vacuum operated machine. 583,417, Dec. 8; Serial No. 640,469, published July 21, 1953. Class 23.

Moore Business Forms, Inc.: *See*—
Pacific Manifolding Book Company.

Moore, Clark, doing business as Asphalt Maintenance Company, New York, N. Y. Road maintenance equipment. 583,411, Dec. 8; Serial No. 639,766, published Aug. 18, 1953. Class 23.

Moore, P. O., Inc., New York, N. Y. Envelopes for storing keys. 583,543, Dec. 8; Serial No. 641,855. Class 2.

Moran Shoe Company: *See*—
Moran Shoe Company, Inc., The.

Moran Shoe Company, Inc., The, by Moran Shoe Company, Carlyle, Ill. Shoes. 348,507, July 27, 1937. Republished Dec. 8. Class 39.

Morton Salt Company: *See*—
Worcester Salt Company.

Morton's Inc., Boston, Mass. Cleaning of fur coats. 583,512, Dec. 8; Serial No. 618,549, published Sept. 15, 1953. Class 103.

Moto-Mower Company, The, Detroit, Mich. Lawnmowers. 583,448, Dec. 8; Serial No. 642,761, published Aug. 4, 1953. Class 23.

Motor Products Corporation, Detroit, Mich., and North Chicago, Ill. Plastic bags, waxed paper cartons, and heat sealing paper bags. 583,339, Dec. 8; Serial No. 630,946, published Sept. 15, 1953. Class 2.

N. V. Electroproducten, The Hague, Netherlands. Electric cycle lighting sets. 583,358, Dec. 8; Serial No. 633,208, published Sept. 1, 1953. Class 21.

N. V. Kristalunie Maastricht, Maastricht, Netherlands. Glassware and crystal ware. 583,255, Dec. 8; Serial No. 579,508, published Dec. 30, 1952. Class 33.

National Chemical Sales Co., Inc., Atlanta, Ga. Boiler water treatment compound. 583,402, Dec. 8; Serial No. 638,493, published Sept. 22, 1953. Class 6.

National Distillers Products Corporation: *See*—
American Medicinal Spirits Company, The.

National Lead Company: *See*—
Titanium Pigment Company, Inc.

National Parent-Teacher, The: *See*—
National Parent-Teacher, Incorporated.

National Parent-Teacher, Incorporated, to The National Parent-Teacher, Chicago, Ill. Periodical publications. 546,597, Aug. 14, 1951. New certificate. O. G. Dec. 8. Class 38

Nemco Electric Company, Seattle, Wash. Junction boxes, cabinets for electrical equipment, power, control and lighting panels and switches, etc. 407,004, May 16, 1944. Republished Dec. 8. Class 21.

Newark Paraffine & Parchment Paper Co., Newark, N. J. Paper bags, paper cardboard boxes, paper trays, etc. 583,359, Dec. 8; Serial No. 633,243, published Sept. 15, 1953. Class 2.

New Jersey Machine Corporation, Hoboken, N. J. Electrically operated, automatic machines. 583,251, Dec. 8; Serial No. 549,942, published July 7, 1953. Class 23.

Nicholson File Company, Providence, R. I. Files and rasps. 306,242, Sept. 12, 1933. Republished Dec. 8. Class 23.

Nielsen, Earl M., San Diego, Calif. Canned tuna fish. 583,485, Dec. 8; Serial No. 645,053, published Aug. 11, 1953. Class 46.

Nobil Shoe Company, The, Akron, Ohio. Women's hosiery. 583,311, Dec. 8; Serial No. 626,527, published Sept. 1, 1953. Class 39.

Norfleet Products: *See*—
Wilkins, Grant.

Nu-Dell Plastics Corporation, Chicago, Ill. Plastic article holders. 583,541, Dec. 8; Serial No. 638,736. Class 2.

Nu-Seal Mfg. Co., Oakland, Calif. Glues. 583,314, Dec. 8; Serial No. 626,996, published Sept. 15, 1953. Class 5.

Oboler, Arch, Hollywood, Calif. Polarizing lenses and eyeglasses. 583,441, Dec. 8; Serial No. 642,084, published Sept. 15, 1953. Class 26.

Olsen, Harry, Seattle, Wash. Photo-composing apparatus. 583,321, Dec. 8; Serial No. 628,424, published Sept. 15, 1953. Class 26.

Orchard Products Company, Chicago, Ill. Fruit preserves. 583,261, Dec. 8; Serial No. 589,466, published Sept. 8, 1953. Class 46.

Osborne Company, The, Clifton, N. J. Blotters, mechanical pencils, fountain pens, etc. 583,366, Dec. 8; Serial No. 633,865, published Sept. 1, 1953. Class 37.

Overland, Fred M., doing business as Overland Import Company, Los Angeles, Calif. Combination hand tool. 583,425, Dec. 8; Serial No. 640,946, published Sept. 8, 1953. Class 23.

Overland Import Company: *See*—
Overland, Fred M.

Pacific Manifolding Book Company, Emeryville, Calif., by Moore Business Forms, Inc., Niagara Falls, N. Y. Paper and stationery. 302,371, Apr. 18, 1933. Republished Dec. 8. Class 37.

Packaging Materials Corp., Providence, R. I. Corrugated paper board. 583,313, Dec. 8; Serial No. 626,819, published Sept. 15, 1953. Class 37.

Pan American Trade Development Corp., New York, N. Y. Vehicle engine bearings and mufflers. 583,271, Dec. 8; Serial No. 605,867, published July 7, 1953. Class 23.

Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils, and pen and pencil desk sets. 583,470, Dec. 8; Serial No. 643,782, published Sept. 15, 1953. Class 37.

Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils, and pen and pencil desk sets. 583,471, Dec. 8; Serial No. 643,785, published Sept. 15, 1953. Class 37.

Parks-Cramer Company, Fitchburg, Mass. Automatic cleaners. 583,429, Dec. 8; Serial No. 641,324, published Aug. 25 1953. Class 23.

Peck & Peck, New York, N. Y. Handbags and wallets. 583,455, Dec. 8; Serial No. 643,362, published Sept. 8, 1953. Class 3.

Pennsylvania Crusher Company, Philadelphia, Pa. Stationary centerfeed crusher. 583,437, Dec. 8; Serial No. 641,859, published Aug. 4, 1953. Class 23.

Perez, Anthony J., New Orleans, La. Washing machines. 583,319, Dec. 8; Serial No. 627,771, published Sept. 22, 1953. Class 24.

Pest Control Limited, Bourn, Cambridge, England. Portable sprayers and power operated sprayers. 583,300, Dec. 8; Serial No. 622,455, published Aug. 11, 1953. Class 23.

Peters, Thomas R. R., Kansas City, Kans. Card game. 583,502, Dec. 8; Serial No. 646,572, published Sept. 22, 1953. Class 22.

Pfeiffer's Food Products, Inc., Buffalo, N. Y. Dressing for salads. 583,522, Dec. 8; Serial No. 611,717. Class 46.

Phoenix Hosiery Company, Milwaukee, Wis. Women's hosiery. 583,430, Dec. 8; Serial No. 641,325, published Sept. 1, 1953. Class 39.

Pioneer Steel Ball, Incorporated, Unionville, Conn. Finished metal bearing balls. 583,304, Dec. 8; Serial No. 623,984, published Aug. 18, 1953. Class 23.

Pipelife, Inc., Odessa, Tex. Cleaning and painting the interior of pipe lines, wells and the like. 583,514, Dec. 8; Serial No. 641,965, published Sept. 15, 1953. Class 103.

Pitman-Dreitzer & Co. Inc., New York, N. Y. Multiple glass jar. 583,382, Dec. 8; Serial No. 636,536, published Aug. 4, 1953. Class 33.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Double glazed windows. 583,423, Dec. 8; Serial No. 640,754, published Aug. 11, 1953. Class 12.

Pollio Dairy Products Corporation, Brooklyn, N. Y. Cheese. 583,517, Dec. 8; Serial No. 579,293. Class 46.

Pond's Extract Company, New York, N. Y., and elsewhere. Toilet and cosmetic product. 583,463–4, Dec. 8; Serial Nos. 643,609–10, published Sept. 15, 1953. Class 51.

Poor & Company, Chicago, Ill. Corrosion inhibitor. 583,440, Dec. 8; Serial No. 642,046, published Sept. 22, 1953. Class 6.

Porter, Wellington W., Waterloo, N. Y. Harvesters, and parts thereof. 583,362, Dec. 8; Serial No. 633,630, published July 21, 1953. Class 23.

Preiswerck, K. J., Ltd., Vancouver, British Columbia, Canada. Sweetened coconut. 583,503, Dec. 8; Serial No. 648,043, published Sept. 8, 1953. Class 46.

Queen Charlotte Canners, Limited: *See*—
Wood & Pohoryles.

Quincy Stove Manufacturing Company, The, Quincy, Ill. Portable electric ranges, electric range units and parts thereof, etc. 583,434, Dec. 8; Serial No. 641,572, published Sept. 8, 1953. Class 21.

Radiant Manufacturing Corporation, Chicago, Ill. Light projection picture screen locking mechanism. 583,404, Dec. 8; Serial No. 638,662, published Sept. 8, 1953. Class 26.

Rain-Beau Products Company, Canton, assignor to The Springfield Company, Ware, Mass. Fishing lines. 583,506, Dec. 8; Serial No. 649,249, published Sept. 15, 1953. Class 22.

Ranger Ice Cream Company, Washington, D. C., assignor to W. R. Howell, doing business as Ranger Ice Cream Company, Arlington, Va. Frozen coated ice cream bars. 583,265, Dec. 8; Serial No. 596,751, published Sept. 8, 1953. Class 46.

Raybestos-Manhattan, Inc., Passaic, N. J. Light weight open weave cloth. 583,323, Dec. 8; Serial No. 628,714, published Sept. 15, 1953. Class 42.

Rebuilt Engine Products Company, Detroit, Mich. Reconditioned internal combustion engines. 583,420, Dec. 8; Serial No. 640,529, published July 21, 1953. Class 23.

Reddi Pressure Products Inc., St. Louis, Mo. Shaving lather. 583,526, Dec. 8; Serial No. 624,206. Class 51.

Reish Products, Inc., South Bend, Ind. Aluminum foil. 583,318, Dec. 8; Serial No. 627,644, published Sept. 15, 1953. Class 14.

Renuzit Home Products Co., doing business as Royal Windsor Petroleum Company, Philadelphia, Pa. Lubricating oils. 583,390, Dec. 8; Serial No. 637,331, published Aug. 4, 1953. Class 15.

Rice Growers Assn.: *See*—
Rice Growers Association of California.

Rice Growers Association of California, also trading as Rice Growers Assn., Sacramento, Calif. Rice. 583,410, Dec. 8; Serial No. 639,393, published Aug. 4, 1953. Class 46.

River Plate Corporation, The, New York, N. Y. Quebracho extract. 583,407, Dec. 8; Serial No. 639,078, published Sept. 15, 1953. Class 6.

Rodman, Thomas E., Glencoe, Ill. Stilts. 583,536, Dec. 8; Serial No. 636,609. Class 22.

Roll-O-Graphic Corporation, New York, N. Y. Molleton fabrics. 583,342, Dec. 8; Serial No. 631,495, published Sept. 15, 1953. Class 42.

Root & Company: *See*—
Root, Nathan.

Root, Nathan, doing business as Root & Company, Grand Rapids, Mich. Cleaning and glazing of furs and fur garments. 583,509, Dec. 8; Serial No. 571,293, published Sept. 15, 1953. Class 103.

Rosenblatt, Albert, & Sons, Inc., New York, N. Y. Women's and misses' dresses. 583,414, Dec. 8; Serial No. 640,228, published Sept. 8, 1953. Class 39.

Rosenblum, Nathan, & Company, by Golden Dawn Foods, Sharon, Pa. Canned fruits, canned vegetables, coffee, etc. 342,519, Jan. 19, 1937. Republished Dec. 8. Class 46.

Roth, Chester H., Co., Inc., New York, N. Y. Liquid preparation to rinse nylon hose. 583,452, Dec. 8; Serial No. 643,187, published Sept. 15, 1953. Class 6.

Royal Hair Pin Corporation, New York, N. Y. Industrial sewing machine needles, home sewing machine needles, and hand sewing needles. 583,401, Dec. 8; Serial No. 638,438, published July 7, 1953. Class 23.

Royal Windsor Petroleum Company: *See*—
Renuzit Home Products Co.

Roycemore Toiletries, Inc., doing business as Shy Products Co., Chicago, Ill. Vaginal syringes. 583,500, Dec. 8; Serial No. 646,018, published Sept. 22, 1953. Class 44.

Rugcrofters, Inc., New York, N. Y. Textile rugs and carpets. 583,532, Dec. 8; Serial No. 632,392. Class 42.

Ruger Equipment, Inc., Uhrichsville, Ohio. Cranes and portable load-lifting and handling equipment. 583,306, Dec. 8; Serial No. 624,302, published Aug. 11, 1953. Class 23.

Rushmore Paper Mills, Inc., Windsor Locks, Conn., and New York, N. Y., to Rushmore Paper Mills, Inc., Gouverneur, N. Y. Paper. 310,733, renewed Mar. 6, 1954. O. G. Dec. 8. Class 37.

Saks & Company, New York, N. Y. Women's and misses' shoes. 583,538, Dec. 8; Serial No. 637,464. Class 39.

Sandoz Chemical Works, Inc., New York, N. Y. Sedative. 310,512, renewed Feb. 27, 1954. O. G. Dec. 8. Class 18.

Schafer, Friedrich, St. Gallen, Switzerland, by Kunreuther & Merfeld, New York, N. Y. Clips used for fastening wearing apparel. 370,174, Aug. 22, 1939. Republished Dec. 8. Class 37.

Scripto, Inc., Atlanta, Ga. Ball point pens. 583,472, Dec. 8; Serial No. 643,793, published Sept. 15, 1953. Class 37.

Sears, Roebuck and Co., Chicago, Ill. Cologne, shave lotion, talcum powder, etc. 583,298, Dec. 8; Serial No. 622,033, published Sept. 8, 1953. Class 51.

See-O-Matic Corporation: *See*—
International Projector Corporation.

Sembodja Corp.: *See*—
Sembodja Corporation of New York.

Sembodja Corporation of New York, also doing business under the name and style of Sembodja Corp., New York, N. Y. Fancy shred coconut. 583,383, Dec. 8; Serial No. 636,742, published Aug. 4, 1953. Class 46.

Sharpe Manufacturing Company, Inc., Minneapolis, Minn. Sports and play garments. 583,315, Dec. 8; Serial No. 627,096, published Sept. 8, 1953. Class 39.

Shaw, Alex D., & Co., New York, N. Y., to Bisquit Dubouche & Cie Laporte Bisquit & Cie sucers., Jarnac, France. Brandy. 92,372, re-renewed July 1, 1953. O. G. Dec. 8. Class 49.

Shawvan, John K., Washington, D. C. Cemetery monuments. 583,301, Dec. 8; Serial No. 622,962, published Sept. 1, 1953. Class 50.

Shull Lumber & Shingle Co., Seattle, Wash., to MacMillan & Bloedel Limited, Vancouver, British Columbia, Canada. Shingles. 148,739, Nov. 22, 1921. New certificate. O. G. Dec. 8. Class 12.

Shy Products Co.: *See*—
Roycemore Toiletries, Inc.

Singer Manufacturing Company, The, Elizabeth, N. J. 583,337, Dec. 8. Thermoplastic material, Serial No. 640,015, published June 23, 1953, Class 1; dust bags and receptacles, Serial No. 630,156, published May 12, 1953, Class 2; traveling cases, Serial No. 630,157, published Mar. 3, 1953, Class 3; emery cord, Serial No. 630,158, published Oct. 14, 1952, Class 4; belt hooks and cabinet and furniture hardware, and general hardware, Serial No. 630,219, published Mar. 3, 1953, Class 13; lubricating oil and greases, Serial No. 630,220, published Feb. 24, 1953, Class 15; electric motors, electromechanical drives, electric transmitters, etc., Serial No. 630,221, published Mar. 31, 1953, Class 21; toy sewing machines, dolls, dolls' clothes, etc., Serial No. 630,222, published Mar. 10, 1953, Class 22; family and commercial sewing machines, darning, embroidery, article fastening, hemstitching, etc., machines, etc., Serial No. 630,223, published May 5, 1953, Class 23; pressing machines, ironing boards, sleeve boards, etc., Serial No. 630,224, published Mar. 31, 1953, Class 24; locks and keys, Serial No. 630,225, published Mar. 31, 1953, Class 25; thermoelectric testing devices and measuring devices, Serial No. 630,160, published June 23, 1953, Class 26; cabinets, stools, chairs, etc., Serial No. 630,161, published Mar. 3, 1953, Class 32; room heaters and fans, Serial No. 630,162, published July 28, 1953, Class 34; V-belts, cord belts, composition belts, etc., Serial No. 630,163, published Mar. 17, 1953, Class 35; marking chalk, Serial No. 631,951, published Mar. 24, 1953, Class 37; books, pamphlets, educational leaflets, etc., Serial No. 630,164, published Apr. 7, 1953, Class 38; hand sewing needles, needle cases, needle threaders, etc., Serial No. 630,165, published June 9, 1953, Class 40; piece goods, Serial No. 636,946, published May 12, 1953, Class 42; sewing thread, Serial No. 631,952, published Mar. 31, 1953, Class 43; surgical stitching instruments, their parts and attachments, etc., Serial No. 630,166, published Mar. 3, 1953, Class 44; dress forms, and dress form stands, Serial No. 630,167, published Feb. 24, 1953, Class 50; petroleum derivatives for use in cleaning metallic machine elements, Serial No. 630,159, published Feb. 24, 1953, Class 52. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

Sjostrom Machine Company: *See*—
Sjostrom, Robert L.

Sjostrom, Robert L., doing business as Sjostrom Machine Company, Lawrence, Mass. Combination thread counting and cloth examining machines. 583,422, Dec. 8; Serial No. 640,706, published Sept. 15, 1953. Class 26.

Skyway Luggage Company: *See*—
Kotkins, Henry L.

Smith Metal Arts Company, Inc., Buffalo, N. Y. Seat cushions having pneumatically operated pulsation features and for use with the seats of aircraft and other vehicles. 583,540, Dec. 8; Serial No. 638,499. Class 19.

Smith, Robt. R. and R. W., Ltd., also doing business as Rowland Smith & Son, London, England. Canned ham. 583,456, Dec. 8; Serial No. 643,379, published Aug. 4, 1953. Class 46.

Smith, Rowland, & Son: *See*—
Smith, Robt. R. and R. W., Ltd.

Societe d'Exploitation Verriere Beaure Bourgogne, Paris, France. Glassware. 583,285, Dec. 8; Serial No. 617,558, published July 28, 1953. Class 33.

Societe Francaise Radio-Electrique, Paris, France. Electron tubes. 583,403, Dec. 8; Serial No. 638,613, published Sept. 1, 1953. Class 21.

Society of Chemical Industry in Basle, Basel, Switzerland, to Ciba Pharmaceutical Products, Inc., Summit, N. J. Pharmaceutical product. 307,008, renewed Oct. 10, 1953. O. G. Dec. 8. Class 18.

Soldwedel, F. H., Company, Pekin, Ill. Dairy products. 583,369, Dec. 8; Serial No. 634,278, published Aug. 11, 1953. Class 46.

Southern Milling Company, Augusta, Ga. Cattle feed. 583,480, Dec. 8; Serial No. 644,461, published Sept. 8, 1953. Class 46.

Spalding, A. G., & Bros. Inc., assignee: *See*—
Toy Tinkers, Inc.

Sparks Machine Tool Corporation, The: *See*—
Hydra-Feed Machine Tool Corporation, The.

Springfield Company, The, assignee: *See*—
Rain-Beau Products Company.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Sedative and hypnotic preparation. 583,349, Dec. 8; Serial No. 632,181, published Aug. 4, 1953. Class 18.

Standard Brands Incorporated, New York, N. Y. Frozen eggs. 309,301, renewed Jan. 9, 1954. O. G. Dec. 8. Class 46.

Standard Brands Incorporated, New York, N. Y. Margarine. 583,504, Dec. 8; Serial No. 648,335, published Sept. 8, 1953. Class 46.

Standard Oil Company, Richmond, to Standard Oil Company of California, San Francisco, Calif. Refined oil, gasolene, lubricating oils, and greases. 93,475, re-renewed Sept. 16, 1953. O. G. Dec. 8. Class 15.

Standard Oil Company of California: *See*—
Standard Oil Company.

Standard Pressed Steel Co., Jenkintown, Pa. Cabinet work benches, shaft couplings, shaft bearings (clamp box), etc. 583,379, Dec. 8; Serial No. 635,938, published Aug. 18, 1953. Class 23.

Stewart, F. W., Manufacturing Corp., Chicago, Ill. Speedometers and parts thereof, and instruments for testing speedometers and tachometers. 583,299, Dec. 8; Serial No. 622,044, published Sept. 1, 1953. Class 26.

Storey, W. H., & Co. Ltd., Croydon, Surrey, England. Playing cards. 583,481, Dec. 8; Serial No. 644,528, published Sept. 22, 1953. Class 22.

Strathmore Paper Company, West Springfield, Mass. Wedding, ledger, photomount, book, cover, and writing papers, etc. 137,485, Nov. 23, 1920. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Flat printing and writing paper. 314,091, June 19, 1934. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 318,611, Oct. 30, 1934. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 321,207, Jan. 22, 1935. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 327,883, Sept. 10, 1935. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 340,198, Nov. 3, 1936. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 345,770, May 4, 1937. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 346,352, May 25, 1937. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 357,607, June 7, 1938. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 389,247, July 29, 1941. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 403,152, Sept. 7, 1943. Republished Dec. 8. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 421,446, June 4, 1946. Republished Dec. 8. Class 37.

Strohmeyer & Arpe Company, New York, N. Y. Canned vegetables, canned fruits and canned fish. 94,956, renewed Jan. 13, 1954. O. G. Dec. 8. Class 46.

Strohmeyer & Arpe Company, New York, N. Y. Canned fish. 95,236, rerenewed Feb. 3, 1954. O. G. Dec. 8. Class 46.

Sun-Maid Raisin Growers of California: *See*—
Miller-Elmer Manufacturing Co., Ltd.

Supplee-Biddle-Steltz Company, Philadelphia, Pa. Bicycles. 583,308, Dec. 8; Serial No. 625,549, published Sept. 22, 1953. Class 19.

Tablerock Laboratories, Inc., Greenville, S. C. Solution and an ointment for the prevention and treatment of infected wounds. 332,834, Feb. 25, 1936. Republished Dec. 8. Class 18.

Television Corporation of America: *See*—
Convery, John.

Tennison Brothers, Incorporated, Memphis, Tenn., and Texarkana, Ark. Sheet metal strips. 583,389, Dec. 8; Serial No. 637,092, published Sept. 8, 1953. Class 12.

Thompson Chemicals Corporation, Los Angeles, Calif. Concentrate liquid chemical used in a solution as a spray. 583,492, Dec. 8; Serial No. 645,441, published Sept. 15, 1953. Class 6.

Thymoform Company: *See*—
De Angelis, Raffaele.

Titanium Pigment Company, Inc., to National Lead Company, New York, N. Y. Paints and paint pigments. 309,889, renewed Feb. 6, 1954. O. G. Dec. 8. Class 16.

Todd Company, Inc., The, Rochester, N. Y. Check printing machines. 583,442, Dec. 8; Serial No. 642,181, published Aug. 4, 1953. Class 23.

Toy Tinkers, Inc., Evanston, Ill., assignor to A. G. Spalding & Bros. Inc., Chicopee, Mass. Children's building elements. 583,483, Dec. 8; Serial No. 644,697, published Sept. 15, 1953. Class 22.

Trailmobile Inc., Cincinnati, Ohio. Cargo trailers, truck bodies, and structural parts thereof. 583,453, Dec. 8; Serial No. 643,252, published Sept. 15, 1953. Class 19.

Trailmobile Inc., Cincinnati, Ohio. Repair and maintenance of cargo trailers. 583,515, Dec. 8; Serial No. 643,253, published Sept. 8, 1953. Class 103.

Trans-Sonics, Inc., Bedford, Mass. Pressure gauges or pressure sensing devices, temperature gauges or temperature sensing devices, etc. 583,357, Dec. 8; Serial No. 633,092, published Sept. 15, 1953. Class 26.

Trygve Olsen & Co. Aktieselskab, assignee: *See*—
Aktieselskab Quality Canning Co. Limited.

United States Hoffman Machinery Corporation, Syracuse and New York, N. Y. Self balancing extractor tumblers and combination washer-extractor tumblers and parts thereof. 583,461, Dec. 8; Serial No. 643,568, published Sept. 22, 1953. Class 24.

Universal Pictures Company, Inc., New York, N. Y. Series of stereoscopic motion picture films. 583,462, Dec. 8; Serial No. 643,573, published Sept. 15, 1953. Class 26.

Utica Drop Forge & Tool Corporation, Utica, N. Y. Adjustable pivot hand tools. 583,527, Dec. 8; Serial No. 624,457. Class 23.

Vaters, John, Jr., trading as Vaters Shoes, Family Shoe Store, and Family Shoe Stores, Arlington, Va., and Washington, D. C. Men's, women's, and children's footwear, men's, women's and children's rainwear, etc. 583,531, Dec. 8; Serial No. 631,904. Class 39.

Vaters Shoes: *See*—
Vaters, John, Jr.

Verney Corporation, Manchester, N. H. Piece goods. 583,290, Dec. 8; Serial No. 620,793, published Oct. 14, 1952. Class 42.

Waldron, John, Corporation, Highland Park, N. J. Printing machines, paper and textile converting machinery, paper breakers, etc. 583,428, Dec. 8; Serial No. 641,225, published Aug. 4, 1953. Class 23.

Wales-Strippit Corporation, North Tonawanda, N. Y. Sheet metal punching, notching, and nibbling machinery, and for drive clutches. 583,316, Dec. 8; Serial No. 627,154, published Aug. 4, 1953. Class 23.

Wales-Strippit Corporation, North Tonawanda, N. Y. Stripping units, hole punching and notching equipment, etc. 583,320, Dec. 8; Serial No. 628,019, published Aug. 11, 1953. Class 23.

Wallach's, Inc., New York, N. Y., and elsewhere. Toiletries. 583,393, Dec. 8; Serial No. 637,469, published Sept. 8, 1953. Class 51.

Ward Green Company, New York, N. Y. Electromechanical massager. 583,487, Dec. 8; Serial No. 645,208, published Sept. 22, 1953. Class 44.

Warner & Swasey Company, The, Cleveland, Ohio. Textile machinery or apparatus. 583,252, Dec. 8; Serial No. 556,044, published July 21, 1953. Class 23.

Warren Tool Corporation, Howland, Ohio. Hand tools. 583,259, Dec. 8; Serial No. 588,068, published July 14, 1953. Class 23.

Wass Food Products Company, Chicago, Ill. Food preparation. 583,499, Dec. 8; Serial No. 645,750, published Sept. 8, 1953. Class 46.

Weco Products Company, Chicago, Ill. Powder puffs. 583,341, Dec. 8; Serial No. 631,332, published Sept. 8, 1953. Class 29.

Wells Furniture Manufacturing Company: *See*—
Wells, John E.

Wells, John E., doing business under the firm name of Wells Furniture Manufacturing Company, Laurel, Miss. Office, school and household furniture. 583,524, Dec. 8; Serial No. 616,262. Class 32.

Wernet Dental Mfg. Co., Inc., doing business as Hudson Products, Jersey City, N. J. Magnesium trisilicate. 583,381, Dec. 8; Serial No. 636,320, published Aug. 4, 1953. Class 18.

Western Clock Co., Peru, by General Time Corporation, La Salle, Ill. Clocks and watches. 91,282, Apr. 22, 1913. Republished Dec. 8. Class 27.

White, Maurice J., doing business as American Club Beverages, Rochester, N. Y. Nonalcoholic maltless beverages. 334,635, May 12, 1936. Republished Dec. 8. Class 45.

Wickes Corporation, The, Saginaw, Mich. Shunt connections on carbon brushes for all rotating electrical equipment. 583,528, Dec. 8; Serial No. 625,937. Class 21.

Wiedemann, Geo., Brewing Co., Inc., The, Newport, Ky. Beer. 583,520, Dec. 8; Serial No. 603,826. Class 48.

Wiedemann, Geo., Brewing Co., Inc., The, Newport, Ky. Beer. 583,534, Dec. 8; Serial No. 633,095. Class 48.

Wile, Julius, Sons and Co., Inc., New York, N. Y. Pink wine. 583,435, Dec. 8; Serial No. 641,702, published Sept. 8, 1953. Class 47.

Wilkins, Grant, doing business as Norfleet Products, Atlanta, Ga. Toilet preparations. 583,466, Dec. 8; Serial No. 643,747, published Sept. 15, 1953. Class 51.

Willys Motors, Inc., assignee: *See*—
Willys-Overland Motors, Inc.

Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Internal combustion engines and parts thereof. 583,250, Dec. 8; Serial No. 536,572, published Aug. 11, 1953. Class 23.

Wilson, Kent H., doing business as Bio-Supply Co., Moscow, Idaho. Biological specimen-examination kits, biological specimen jars, etc. 583,286, Dec. 8; Serial No. 618,872, published Sept. 15, 1953. Class 26.

Winter Garden Citrus Products Cooperative, Winter Garden, Fla. Canned citrus juices. 583,367–8, Dec. 8; Serial Nos. 633,899–900, published Sept. 8, 1953. Class 46.

Wolf Brothers, Inc., Philadelphia, Pa. Paper bags. 583,496–7, Dec. 8; Serial Nos. 645,612–13, published Sept. 15, 1953. Class 2.

Wood & Pohoryles, New York, N. Y., to Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, British Columbia, Canada. Canned prepared minced razor clams and crab meat. 412,886, Mar. 27, 1945. New certificate. O. G. Dec. 8. Class 46.

Wood, Stubbs & Co., Louisville, Ky., to Allied Seed Company, Inc., Ithaca, N. Y. Garden-seeds, flower-seeds, vegetable-seeds, etc. 40,866, re-renewed Aug. 4, 1953. O. G. Dec. 8. Class 1.

Worcester Salt Company, New York, N. Y., to Morton Salt Company, Chicago, Ill. Tooth paste. 306,059, renewed Sept. 5, 1953. O. G. Dec. 8. Class 51.

Wyeth, John, and Brother Incorporated, to American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Eye lotions, eye washes, and antiseptics. 310,132, renewed Feb. 13, 1954. O. G. Dec. 8. Class 18.

Wyeth, John, and Brother Incorporated, to American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Hemmorrhoidal suppositories. 310,134, renewed Feb. 13, 1954. O. G. Dec. 8. Class 18.

Wyeth, John, and Brother Incorporated, to American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Elixir of glycero phosphoric compound. 310,517, renewed Feb. 27, 1954. O. G. Dec. 8. Class 18.

Wyeth Laboratories, Division of American Home Products Corporation: *See*—
Wyeth, John, and Brother Incorporated.

Zeiss Ikon, A. G., Stuttgart, Germany. Photographic apparatus, telescopes, microscopes, etc. 583,344, Dec. 8; Serial No. 631,957, published Sept. 15, 1953. Class 26.

Zenith Radio Corporation, Chicago, Ill. Radio and television transmitting and receiving apparatus and parts thereof. 583,325, Dec. 8; Serial No. 629,135, published Sept. 8, 1953. Class 21.

Ziff-Davis Publishing Company, New York, N. Y. Children's play cartridge belts, crayon receptacles, coloring books, etc. 583,467, Dec. 8; Serial No. 643,750, published Sept. 15, 1953. Class 22.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Garden-seeds, flower-seeds, vegetable-seeds, etc. Wood, Stubbs & Co. 40,866, re-renewed Aug. 4, 1953. O. G. Dec. 8.

Raw fibrous textile materials, etc. Courtaulds, Limited. 571,625, Mar. 10, 1953. New certificate. O. G. Dec. 8.

Thermoplastic material. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 640,015, published June 23, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 2

Bags, Dust, and receptacles. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,156, published May 12, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

Bags, Paper. Wolf Brothers, Inc. 583,496–7, Dec. 8; Serial Nos. 645,612–13, published Sept. 15, 1953.

Bags, Paper, paper cardboard boxes, paper trays, etc. Newark Paraffine & Parchment Paper Co. 583,359, Dec. 8; Serial No. 633,243, published Sept. 15, 1953.

Bags, Plastic, waxed paper cartons, and heat sealing paper bags. Motor Products Corporation. 583,339, Dec. 8; Serial No. 630,946, published Sept. 15, 1953.

Baskets, Paperboard shipping. Kieckhefer Container Company. 309,344, renewed Jan. 9, 1954. O. G. Dec. 8.

Containers, Collapsible cardboard, boxlike. C. W. Golden. 583,545, Dec. 8; Serial No. 643,676.

Envelopes for storing keys. P. O. Moore, Inc. 583,543, Dec. 8; Serial No. 641,855.

Holders, Plastic article. Nu-Dell Plastics Corporation. 583,541, Dec. 8; Serial No. 638,736.

CLASS 3

Handbags and wallets. Peck & Peck. 583,455, Dec. 8; Serial No. 643,362, published Sept. 8, 1953.

Handbags, Ladies'. Associated Plastics Company, Inc. 583,475–6, Dec. 8; Serial Nos. 644,156–7, published Sept. 8, 1953.

Luggage, Men's and women's hand. H. L. Kotkins. 583,479, Dec. 8; Serial No. 644,325, published Sept. 8, 1953.

Overnight bag. The Leather Specialty Co. 583,544, Dec. 8; Serial No. 642,860.

Pocketbooks, purses, and wallets. G. R. Godfrey Company. 583,474, Dec. 8; Serial No. 643,902, published Sept. 8, 1953.

Traveling cases. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,157, published Mar. 3, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Wallets and billfolds. Aristocrat Leather Products, Inc. 583,432, Dec. 8; Serial No. 641,490, published Sept. 1, 1953.

CLASS 4

Emery cord. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,158, published Oct. 14, 1952. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 5

Dry core binders in casting metals. Hercules Powder Company. 308,736, renewed Dec. 19, 1953. O. G. Dec. 8.
Glues. Nu-Seal Mfg. Co. 583,314, Dec. 8; Serial No. 626,996, published Sept. 15, 1953.

CLASS 6

Boiler water treatment compound. National Chemical Sales Co., Inc. 583,402, Dec. 8; Serial No. 638,493, published Sept. 22, 1953.
Carbonizing compounds, disinfectants, compounds for preventing oxidation, etc. E. F. Houghton & Co. 93,995, Oct. 28, 1913. Republished Dec. 8.
Chemical compound, Liquid. Foam-Crete, Incorporated. 583,371, Dec. 8; Serial No. 634,584, published Sept. 15, 1953.
Concentrate liquid chemical used in a solution as a spray. Thompson Chemicals Corporation. 583,492, Dec. 8; Serial No. 645,441, published Sept. 15, 1953.
Corrosion inhibitor. Poor & Company. 583,440, Dec. 8; Serial No. 642,046, published Sept. 22, 1953.
Desiccant. Culligan, Inc. 583,491, Dec. 8; Serial No. 645,395, published Sept. 15, 1953.
Disinfectant. R. De Angelis. 583,494, Dec. 8; Serial No. 645,467, published Sept. 15, 1953.
Incense. J. Akhtar. 583,413, Dec. 8; Serial No. 639,975, published Sept. 15, 1953.
Liquid preparation to rinse nylon hose. Chester H. Roth Co., Inc. 583,452, Dec. 8; Serial No. 643,187, published Sept. 15, 1953.
Liquid synthetic resins. Marco Chemicals, Inc. 583,354–5, Dec. 8; Serial Nos. 632,624–5, published Sept. 15, 1953.
Quebracho extract. The River Plate Corporation. 583,407, Dec. 8; Serial No. 639,078, published Sept. 15, 1953.
Sugar cane wax for industrial purposes. S. C. Johnson & Son, Inc. 583,329–36, Dec. 8; Serial Nos. 630,076–83, published Sept. 22, 1953.
Synthetic plastic materials. Farbenfabriken Bayer. 583,388, Dec. 8; Serial No. 636,972, published Sept. 15, 1953.
Water purification compound. Magno - Syn - Werk, G. m. b. H. 583,263, Dec. 8; Serial No. 593,734, published Sept. 15, 1953.

CLASS 9

Dynamite. Hercules Powder Company. 95,099, re-renewed Feb. 3, 1954. O. G. Dec. 8.

CLASS 12

Asphalt composition. The Master Builders Company. 583,416, Dec. 8; Serial No. 640,465, published July 28, 1953.
Brick, Refractory. Illinois Clay Products Company. 583,260, Dec. 8; Serial No. 588,301, published Sept. 8, 1953.
Bricks and blocks, Pre-cast. Jackson and Church Company. 583,351, Dec. 8; Serial No. 632,250, published Sept. 8, 1953.
Composition to be used as an ingredient for cement mixes and masonry mortar mixes. The Master Builders Company. 583,409, Dec. 8; Serial No. 639,381, published July 28, 1953.
Sheet metal basement entrance units. Heatilator, Inc. 583,377, Dec. 8; Serial No. 635,650, published Sept. 8, 1953.
Sheet metal strips. Tennison Brothers, Incorporated. 583,389, Dec. 8; Serial No. 637,092, published Sept. 8, 1953.
Shingles. Shull Lumber & Shingle Co. 148,739, Nov. 22, 1921. New certificate. O. G. Dec. 8.
Windows, Double glazed. Pittsburgh Plate Glass Company. 583,423, Dec. 8; Serial No. 640,754, published Aug. 11, 1953.

CLASS 13

Belt hooks and cabinet and furniture hardware, and general hardware. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,219, published Mar. 3, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Spouts for caulking guns, Detachable. Battenfeld Grease & Oil Corp. 583,535, Dec. 8; Serial No. 635,896.

CLASS 14

Aluminum foil. Reish Products, Inc. 583,318, Dec. 8; Serial No. 627,644, published Sept. 15, 1953.
Metal sheets and particularly foils of aluminum and aluminum alloys. Aluminum Foils, Inc. 583,338, Dec. 8; Serial No. 630,371, published Sept. 15, 1953.

CLASS 15

Oil and greases, Lubricating. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,220, published Feb. 24, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Oil, Refined, gasolene, lubricating oils and greases. Standard Oil Company. 93,475, re-renewed Sept. 16, 1953. O. G. Dec. 8.
Oils, Lubricating. Allied Petroleum Corporation. 306,912, renewed Oct. 3, 1953. O. G. Dec. 8.
Oils, Lubricating. Allied Petroleum Corporation. 307,531, renewed Oct. 31, 1953. O. G. Dec. 8.
Oils, Lubricating. Allied Petroleum Corporation. 308,229, renewed Nov. 28, 1953. O. G. Dec. 8.
Oils, Lubricating. Renuzit Home Products Co. 583,390, Dec. 8; Serial No. 637,331, published Aug. 4, 1953.
Oils, Lubricating, lubricating greases, tempering oils, etc. E. F. Houghton & Co. 94,638, Dec. 23, 1913. Republished Dec. 8.

CLASS 16

Paints, and paint pigments. Titanium Pigment Company, Inc. 309,889, renewed Feb. 6, 1954. O. G. Dec. 8.

CLASS 18

Composition for treatment of burns, etc. Lincoln Laboratories, Inc. 583,447, Dec. 8; Serial No. 642,668, published Aug. 18, 1953.
Elixir of glycero phosphoric compound. John Wyeth and Brother Incorporated. 310,517, renewed Feb. 27, 1954. O. G. Dec. 8.
Eye lotions, eye washes, and antiseptics. John Wyeth and Brother Incorporated. 310,132, renewed Feb. 13, 1954. O. G. Dec. 8.
Hemorrhoidal suppositories. John Wyeth and Brother Incorporated. 310,134, renewed Feb. 13, 1954. O. G. Dec. 8.
Magnesium trisilicate. Wernet Dental Mfg. Co., Inc. 583,381, Dec. 8; Serial No. 636,320, published Aug. 4, 1953.
Medicinal elixirs. R. L. McNeil. 308,411, renewed Dec. 5, 1953. O. G. Dec. 8.
Medicinal elixirs and capsules. R. L. McNeil. 308,404, renewed Dec. 5, 1953. O. G. Dec. 8.
Medicinal elixirs, capsules, and tablets. R. L. McNeil. 308,408, renewed Dec. 5, 1953. O. G. Dec. 8.
Medicinal lotion. R. L. McNeil. 308,409, renewed Dec. 5, 1953. O. G. Dec. 8.
Medicinal preparation. Charles C. Haskell & Co., Inc. 583,439, Dec. 8; Serial No. 642,032, published Aug. 18, 1953.
Medicinal tablets. R. L. McNeil. 308,405–6, renewed Dec. 5, 1953. O. G. Dec. 8.
Medicine for treating the genitals of animals. Dickman & Wyrsch. 583,364, Dec. 8; Serial No. 633,719, published Aug. 4, 1953.
Pharmaceutical product. Society of Chemical Industry in Basle. 307,008, renewed Oct. 10, 1953. O. G. Dec. 8.
Preparation for the treatment and control of the tobacco habit. S. S. Loseff. 583,302, Dec. 8; Serial No. 623,471, published May 19, 1953.
Preparation to be administered intravenously for the relief of eclampsia, etc. Irwin, Neisler & Company. 583,450, Dec. 8; Serial No. 643,038, published Aug. 18, 1953.
Quaternary ammonium compositions. Armour and Company. 583,406, Dec. 8; Serial No. 639,006, published Aug. 4, 1953.
Sedative. Sandoz Chemical Works, Inc. 310,512, renewed Feb. 27, 1954. O. G. Dec. 8.
Sedative and hypnotic preparation. E. R. Squibb & Sons. 583,349, Dec. 8; Serial No. 632,181, published Aug. 4, 1953.
Solution and an ointment for the prevention and treatment of infected wounds. Tablerock Laboratories, Inc. 332,834, Feb. 25, 1936. Republished Dec. 8.

CLASS 19

Aircraft seats. The Aerotherm Corporation. 583,505, Dec. 8; Serial No. 648,344, published Sept. 22, 1953.
Automotive accessories. American Automatic Devices Co. 583,278, Dec. 8; Serial No. 614,644, published Sept. 22, 1953.
Bicycles. Supplee-Biddle-Steitz Company. 583,308, Dec. 8; Serial No. 625,549, published Sept. 22, 1953.
Boats, Outboard motor. McDerby-Conatser Boat Manufacturers. 583,372, Dec. 8; Serial No. 634,748, published Sept. 22, 1953.
Boats, Wooden, and unfinished hulls of boats. Industrial Shipping Company Limited. 583,446, Dec. 8; Serial No. 642,553, published Sept. 15, 1953.
Propellers. Fairchild Engine and Airplane Corporation. 583,291, Dec. 8; Serial No. 620,843, published Sept. 22, 1953.

Seat cushions having pneumatically operated pulsation features and for use with the seats of aircraft and other vehicles. Smith Metal Arts Company, Inc. 583,540, Dec. 8; Serial No. 638,499.
Trailers, Cargo, truck bodies, and structural parts thereof. Trailmobile Inc. 583,453, Dec. 8; Serial No. 643,252, published Sept. 15, 1953.
Trailers, Truck, and motor trucks. Freightliner Corporation. 583,277, Dec. 8; Serial No. 613,366, published Sept. 8, 1953.
Windshields, Vehicle. The Fixible Company. 434,953, Dec. 9, 1947. Republished Dec. 8.

CLASS 21

Arc welding machines. Eutectic Welding Alloys Corporation. 583,445, Dec. 8; Serial No. 642,394, published Sept. 15, 1953.
Coating compound useful for application to electrical wires, cable splices, etc., Adherent. Minnesota Mining and Manufacturing Company. 583,386, Dec. 8; Serial No. 636,857, published Sept. 8, 1953.
Electric arc-welding apparatus. The Lincoln Electric Company. 583,398, Dec. 8; Serial No. 637,930, published Sept. 1, 1953.
Electric connector plugs; electric receptacles; electric cutouts, etc. Meteor Electric Corporation. 583,385, Dec. 8; Serial No. 636,793, published Sept. 1, 1953.
Electric motors, electro-mechanical drives, electric transmitters, etc. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,221, published Mar. 31, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Electric ranges, Portable, electric range units and parts thereof, etc. The Quincy Stove Manufacturing Company. 583,434, Dec. 8; Serial No. 641,572, published Sept. 8, 1953.
Electric water heaters, Automatic, and electric fired heating boilers. K. J. Kawalle. 583,415, Dec. 8; Serial No. 640,285, published Sept. 1, 1953.
Electrical apparatus. Kliegl Bros. Universal Electric Stage Lighting Co., Inc. 583,498, Dec. 8; Serial No. 645,718, published Sept. 15, 1953.
Electrical welders, spot welders, and welding equipment. Miller Electric Manufacturing Co. 583,436, Dec. 8; Serial No. 641,853, published Sept. 15, 1953.
Electron tubes. Societe Francaise Radio-Electrique. 583,403, Dec. 8; Serial No. 638,613, published Sept. 1, 1953.
Fuses, Electrical. Economy Fuse and Manufacturing Co. 583,418, Dec. 8; Serial No. 640,503, published Sept. 8, 1953.
Generators, Ozone. C. L. Herdegen. 583,276, Dec. 8; Serial No. 612,739, published May 20, 1952.
Ignition circuit breakers. H. L. Fuston. 583,340, Dec. 8; Serial No. 631,238, published Sept. 1, 1953.
Insulating material for electrical insulation. The William Brand and Co. Inc. 583,484, Dec. 8; Serial No. 644,893, published Sept. 1, 1953.
Junction boxes, cabinets for electrical equipment, power, control and lighting panels and switches, etc. Nemco Electric Company. 407,004, May 16, 1944. Republished Dec. 8.
Lamps and switches, Electric. General Motors Corporation. 583,324, Dec. 8; Serial No. 628,937, published Sept. 8, 1953.
Light, Electrical signal. A. A. Lambert. 583,525, Dec. 8; Serial No. 618,048.
Lighting fixtures and parts thereof, Fluorescent. Day-Brite Lighting, Inc. 583,361, Dec. 8; Serial No. 633,302, published Sept. 8, 1953.
Lighting sets, Electric cycle. The N. V. Electroproducten. 583,358, Dec. 8; Serial No. 633,208, published Sept. 1, 1953.
Lighting units, Fluorescent. Electro Manufacturing Corporation. 583,327, Dec. 8; Serial No. 629,727, published Sept. 8, 1953.
Loud speakers. Duode Limited. 583,391, Dec. 8; Serial No. 637,365, published Sept. 1, 1953.
Microphones and loudspeakers, Electrically-operated. Dictaphone Corporation. 583,375, Dec. 8; Serial No. 635,124, published Sept. 8, 1953.
Panelboards embodying electric circuit breakers. Cutler-Hammer, Inc. 583,282, Dec. 8; Serial No. 616,369, published Sept. 1, 1953.
Radio and television transmitting and receiving apparatus and parts thereof. Zenith Radio Corporation. 583,325, Dec. 8; Serial No. 629,135, published Sept. 8, 1953.
Shunt connections on carbon brushes for all rotating electrical equipment. The Wickes Corporation. 583,528, Dec. 8; Serial No. 625,937.
Spark plugs. F. A. Luthy Co. 583,356, Dec. 8; Serial No. 632,844, published Sept. 8, 1953.

CLASS 22

Base balls, basket balls, foot balls, etc. Marshall-Wells Company. 583,507, Dec. 8; Serial No. 649,800, published Sept. 22, 1953.
Children's building elements. Toy Tinkers, Inc. 583,483, Dec. 8; Serial No. 644,697, published Sept. 15, 1953.
Fishing and spinning reels, fishing and spinning rods, etc. Airex Corporation. 583,508, Dec. 8; Serial No. 649,860, published Sept. 22, 1953.
Fishing lines. Rain-Beau Products Company. 583,506, Dec. 8; Serial No. 649,249, published Sept. 15, 1953.
Game. A. F. Marquette. 583,353, Dec. 8; Serial No. 632,567, published Sept. 15, 1953.
Game, Card. T. B. R. Peters. 583,502, Dec. 8; Serial No. 646,572, published Sept. 22, 1953.
Game, Mechanical tennis-simulating table. Jet-Ball Game Company. 583,297, Dec. 8; Serial No. 622,020, published Sept. 15, 1953.
Golf balls. Burke Golf Equipment Corporation. 583,322, Dec. 8; Serial No. 628,466, published Sept. 15, 1953.
Golf clubs. Burke Golf Equipment Corporation. 583,346, Dec. 8; Serial No. 632,073, published Sept. 15, 1953.
Golf clubs and golf balls. Burke Golf Equipment Corporation. 583,345, Dec. 8; Serial No. 632,072, published Sept. 15, 1953.
Play cartridge belts, crayon receptacles, coloring books, etc., Children's. Ziff-Davis Publishing Company. 583,467, Dec. 8; Serial No. 643,750, published Sept. 15, 1953.
Playing cards. W. H. Storey & Co. Ltd. 583,481, Dec. 8; Serial No. 644,528, published Sept. 22, 1953.
Stilts. T. E. Rodman. 583,536, Dec. 8; Serial No. 636,609.
Toy pistol. Louis Marx & Co., Inc. 583,489, Dec. 8; Serial No. 645,330, published Sept. 15, 1953.
Toy sewing machines, dolls, dolls' clothes, etc. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,222, published Mar. 10, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 23

Automatic cleaners. Parks-Cramer Company. 583,429, Dec. 8; Serial No. 641,324, published Aug. 25, 1953.
Automotive equipment. Car Parts Depot, Inc. 583,426, Dec. 8; Serial No. 641,013, published Aug. 25, 1953.
Bearing balls, Finished metal. Pioneer Steel Ball, Incorporated. 583,304, Dec. 8; Serial No. 623,984, published Aug. 18, 1953.
Butcher block, Household. R. M. Meltzer. 583,303, Dec. 8; Serial No. 623,553, published Aug. 4, 1953.
Cabinet work benches, shaft couplings, shaft bearings (clamp box), etc. Standard Pressed Steel Co. 583,379, Dec. 8; Serial No. 635,938, published Aug. 18, 1953.
Centerfeed, crusher, Stationary. Pennsylvania Crusher Company. 583,437, Dec. 8; Serial No. 641,859, published Aug. 4, 1953.
Clippers, Vacuum operated. Babson Bros. Co. 583,444, Dec. 8; Serial No. 642,256, published Aug. 25, 1953.
Compressors, Centrifugal, axial flow compressors, gas turbines, etc. Clark Bros. Co., Inc. 583,274, Dec. 8; Serial No. 610,246, published July 7, 1953.
Cranes and portable load-lifting and handling equipment. Ruger Equipment, Inc. 583,306, Dec. 8; Serial No. 624,302, published Aug. 11, 1953.
Cultivators, Garden and lawn. John H. Graham & Co., Inc. 583,419, Dec. 8; Serial No. 640,511, published July 21, 1953.
Cutlery. Imperial Knife Company, Inc. 583,326, Dec. 8; Serial No. 629,165, published Aug. 11, 1953.
Diaphragm-operated valves, diaphragm-operated reducing valves, diaphragm-operated pilot regulating valves, etc. Leslie Co. 583,267, Dec. 8; Serial No. 600,542, published July 7, 1953.
Domestic and industrial sewing machines and sewing machine attachments and parts thereof. Kochs Adlernaehmaschinen Werke, A. G. 583,279–80, Dec. 8; Serial Nos. 615,261–2, published Aug. 18, 1953.
Electrically operated, automatic machines. New Jersey Machine Corporation. 583,251, Dec. 8; Serial No. 549,942, published July 7, 1953.
Files and rasps. Nicholson File Company. 306,242, Sept. 12, 1933. Republished Dec. 8.
Fire extinguishers, Portable. A. E. Brenner. 583,257, Dec. 8; Serial No. 585,697, published July 7, 1953.
Fire extinguishers, Portable. Walter Kidde & Company, Inc. 583,284, Dec. 8; Serial No. 617,299, published June 30, 1953.
Grinder machines. E. F. Hager & Son. 583,516, Dec. 8; Serial No. 566,079.
Hammers, Soft. Charles Budd Corporation. 583,283, Dec. 8; Serial No. 616,408, published June 30, 1953.
Harvesters, and parts thereof. W. W. Porter. 583,362, Dec. 8; Serial No. 633,630, published July 21, 1953.
Internal combustion engines and parts thereof. Willys-Overland Motors, Inc. 583,250, Dec. 8; Serial No. 536,572, published Aug. 11, 1953.
Lathes, Heavy duty. The Hydra-Feed Machine Tool Corporation. 583,281, Dec. 8; Serial No. 615,503, published Aug. 11, 1953.
Lawnmowers. The Moto-Mower Company. 583,448, Dec. 8; Serial No. 642,761, published Aug. 4, 1953.
Machinery—namely, gyratory crushers, etc. Allis-Chalmers Manufacturing Company. 583,275, Dec. 8; Serial No. 612,231, published Aug. 25, 1953.
Machines for discharging streams of abrasive particles to clean castings, etc. The American Foundry Equipment Company. 306,045, renewed Sept. 5, 1953. O. G. Dec. 8.
Metal casting machines. Mergenthaler Linotype Company. 583,292, Dec. 8; Serial No. 621,218, published July 14, 1953.

Mixing machinery, hammermills, portable belt and drag conveyors and car unloaders, etc. The Fairfield Engineering Company. 583,412, Dec. 8; Serial No. 639,816, published Aug. 18, 1953.

Mowing machines, Power-operated sickle-bar. Hoffco, Inc. 583,258, Dec. 8; Serial No. 586,412, published Aug. 11, 1953.

Pliers, knives, nippers, and shears. E. Katz. 583,317, Dec. 8; Serial No. 627,301, published July 21, 1953.

Power-agitated machines for cleaning small parts, accessory tools, and combination shearing, trimming, and edging tools. E. L. Chadwick. 583,363, Dec. 8; Serial No. 633,712, published Aug. 11, 1953.

Precision machined balls. Industrial Tectonics, Inc. 583,392, Dec. 8; Serial No. 637,378, published July 21, 1953.

Printing machines and parts thereof. Dapag (1943) Limited. 583,296, Dec. 8; Serial No. 621,958, published July 21, 1953.

Printing machines, Check. The Todd Company, Inc. 583,442, Dec. 8; Serial No. 642,181, published Aug. 4, 1953.

Printing machines, paper and textile converting machinery, paper breakers, etc. John Waldron Corporation. 583,428, Dec. 8; Serial No. 641,225, published Aug. 4, 1953.

Pumps, Water, and water pumping units. Decatur Pump Company. 583,380, Dec. 8; Serial No. 636,063, published Aug. 4, 1953.

Reconditioned internal combustion engines. Rebuilt Engine Products Company. 583,420, Dec. 8; Serial No. 640,529, published July 21, 1953.

Road maintenance equipment. C. Moore. 583,411, Dec. 8; Serial No. 639,766, published Aug. 18, 1953.

Road plow and scraper metal blades; metal bars and metal plates. American Suralloy Steel Corporation. 583,397, Dec. 8; Serial No. 637,900, published July 21, 1953.

Saw blades and frames, Metal cutting. Diamond Saw Works, Inc. 583,459, Dec. 8; Serial No. 643,541, published July 14, 1953.

Saws. Henry Disston & Sons, Incorporated. 94,719, Dec. 30, 1913. Republished Dec. 8.

Sewing machine needles, hand operated meat grinders, fruit juice mixers and can openers; etc. Arkwright, Incorporated. 583,347, Dec. 8; Serial No. 632,109, published Aug. 18, 1953.

Sewing machine needles, Industrial, home sewing machine needles, and hand sewing needles. Royal Hair Pin Corporation. 583,401, Dec. 8; Serial No. 638,438, published July 7, 1953.

Sewing machines, Family and commercial, darning, embroidery, article fastening, hemstitching, etc. machines, etc. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,223, published May 5, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

Sheet metal punching, notching, and nibbling machinery, and for drive clutches. Wales-Strippit Corporation. 583,316, Dec. 8; Serial No. 627,154, published Aug. 4, 1953.

Sprayers, Portable, and power operated sprayers. Pest Control Limited. 583,300, Dec. 8; Serial No. 622,455, published Aug. 11, 1953.

Stapling machines and mattress making machines and parts thereof, etc. Meridan Corporation. 583,373, Dec. 8; Serial No. 634,908, published Aug. 25, 1953.

Stripping units, hole punching and notching equipment, etc. Wales-Strippit Corporation. 583,320, Dec. 8; Serial No. 628,019, published Aug. 11, 1953.

Stuffing box for a mechanical joint. Barrett, Haentjens & Co. 583,529, Dec. 8; Serial No. 631,531.

Textile machinery or apparatus. The Warner & Swasey Company. 583,252, Dec. 8; Serial No. 556,044, published July 21, 1953.

Threading equipment for rock drill steel rods. Ingersoll-Rand Company. 583,400, Dec. 8; Serial No. 638,420, published July 21, 1953.

Tool, Combination hand. F. M. Overland. 583,425, Dec. 8; Serial No. 640,946, published Sept. 8, 1953.

Tools, Adjustable pivot hand. Utica Drop Forge & Tool Corporation. 583,527, Dec. 8; Serial No. 624,457.

Tools and supplies, Watchmakers' and watch repairmen's. E. Leichter. 583,262, Dec. 8; Serial No. 591,300, published Aug. 25, 1953.

Tools, Hand. Warren Tool Corporation. 583,259, Dec. 8; Serial No. 588,068, published July 14, 1953.

Tractor, Motor driven. The Coleman Motors Corporation. 583,288, Dec. 8; Serial No. 620,461, published Aug. 11, 1953.

Vacuum operated machine. Minnesota Mining & Manufacturing Company. 583,417, Dec. 8; Serial No. 640,469, published July 21, 1953.

Vehicle engine bearings and mufflers. Pan American Trade Development Corp. 583,271, Dec. 8; Serial No. 605,867, published July 7, 1953.

Vending machine, Coin operated. L. R. Inwood. 583,431, Dec. 8; Serial No. 641,449, published July 21, 1953.

Wheels, Sprocket. Cullman Wheel Company. 583,348, Dec. 8; Serial No. 632,156, published July 14, 1953.

CLASS 24

Pressing machines; ironing boards, sleeve boards, etc. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,224, published Mar. 31, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

Self balancing extractor tumblers and combination washer-extractor tumblers and parts thereof. United States Hoffman Machinery Corporation. 583,461, Dec. 8; Serial No. 643,568, published Sept. 22, 1953.

Solvent recovery machines for recovering cleaning solvents in dry cleaning operations. International Projector Corporation. 583,269, Dec. 8; Serial No. 602,340, published Sept. 22, 1953.

Washing machines. A. J. Perez. 583,319, Dec. 8; Serial No. 627,771, published Sept. 22, 1953.

CLASS 25

Locks and keys. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,225, published Mar. 31, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 26

Adding and calculating machines and cash control and bookkeeping machines and parts. Aktiebolaget Addo. 583,405, Dec. 8; Serial No. 638,887, published Sept. 1, 1953.

Biological specimen-examination kits, biological specimen jars, etc. K. H. Wilson. 583,286, Dec. 8; Serial No. 618,872, published Sept. 15, 1953.

Daylight developing tank. Agfa Camera Werk München. 583,482, Dec. 8; Serial No. 644,587, published Sept. 8, 1953.

Laboratory and scientific glassware. Bellco Glass, Inc. 583,449, Dec. 8; Serial No. 642,931, published Sept. 15, 1953.

Lens attachments, Magnifying. Fairbridge Co. Incorporated. 583,438, Dec. 8; Serial No. 642,027, published Sept. 15, 1953.

Lenses, Polarizing, and eyeglasses. A. Oboler. 583,441, Dec. 8; Serial No. 642,084, published Sept. 15, 1953.

Light projection picture screen locking mechanism. Radiant Manufacturing Corporation. 583,404, Dec. 8; Serial No. 638,662, published Sept. 8, 1953.

Mechanically operable attachment for internal combustion engine carburetors. M. Bailey, Sr. 583,408, Dec. 8; Serial No. 639,309, published Sept. 8, 1953.

Photo-composing apparatus. H. Olsen. 583,321, Dec. 8; Serial No. 628,424, published Sept. 15, 1953.

Photographic apparatus, telescopes, microscopes, etc. Zeiss Ikon, A. G. 583,344, Dec. 8; Serial No. 631,957, published Sept. 15, 1953.

Photographic exposure frames. Colwell Litho Products Inc. 583,477, Dec. 8; Serial No. 644,224, published Sept. 8, 1953.

Pressure gauges or pressure sensing devices, temperature gauges or temperature sensing devices, etc. Trans-Sonics, Inc. 583,357, Dec. 8; Serial No. 633,092, published Sept. 15, 1953.

Rules for alignment of spectacles. Lugene, Inc. 583,451, Dec. 8; Serial No. 643,040, published Sept. 15, 1953.

Speedometers and parts thereof, and instruments for testing speedometers and tachometers. F. W. Stewart Manufacturing Corp. 583,299, Dec. 8; Serial No. 622,044, published Sept. 1, 1953.

Stereoscopic motion picture films, Series of. Universal Pictures Company, Inc. 583,462, Dec. 8; Serial No. 643,573, published Sept. 15, 1953.

Testing devices, Thermoelectric, and measuring devices. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,160, published June 23, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

Thread counting and cloth examining machines, Combination. R. L. Sjostrom. 583,422, Dec. 8; Serial No. 640,706, published Sept. 15, 1953.

CLASS 27

Clocks and watches. Western Clock Co. 91,282, Apr. 22, 1913. Republished Dec. 8.

CLASS 28

Bracelets, necklaces, chokers, etc. Belenky Bros., Inc. 583,350, Dec. 8; Serial No. 632,197, published Aug. 4, 1953.

Waiters, entree dishes, teasets, etc. William Adams, Limited. 583,343, Dec. 8; Serial No. 631,709, published Aug. 4, 1953.

CLASS 29

Powder puffs. Weco Products Company. 583,341, Dec. 8; Serial No. 631,332, published Sept. 8, 1953.

CLASS 30

Earthenware articles. Doulton & Co., Limited. 583,473, Dec. 8; Serial No. 643,824, published July 28, 1953.

Porcelain and earthenware. Geo. Borgfeldt Corporation. 583,424, Dec. 8; Serial No. 640,906, published July 28, 1953.

CLASS 31

Ice cooled or electrically operated water coolers. Great Bear Spring Company. 310,331, renewed Feb. 20, 1954. O. G. Dec. 8.

CLASS 32

Cabinets, stools, chairs, etc. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,161, published Mar. 3, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

Furniture, Office, school and household. J. E. Wells. 583,524, Dec. 8; Serial No. 616,262.

Stands, wall panels and shelves. F. Augenfeld. 583,518, Dec. 8; Serial No. 587,930.

CLASS 33

Glass jar, Multiple. Pitman-Dreitzer & Co. Inc. 583,382, Dec. 8; Serial No. 636,536, published Aug. 4, 1953.

Glassware. Societe d'Exploitation Verriere Beauce Bourgogne. 583,285, Dec. 8; Serial No. 617,558, published July 28, 1953.

Glassware and crystal ware. N. V. Kristalunie Maastricht. 583,255, Dec. 8; Serial No. 579,508, published Dec. 30, 1952.

CLASS 34

Heaters, Room, and fans. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,162, published July 28, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 35

Tires, Rubber vehicle. The Dayton Rubber Company. 580,231, Sept. 22, 1953. Corrected. O. G. Dec. 8.

Tires, Vehicle. The Firestone Tire & Rubber Company. 580,262, Sept. 22, 1953. Corrected. O. G. Dec. 8.

V-belts, cord belts, composition belts, etc. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,163, published Mar. 17, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 37

Blotters, mechanical pencils, fountain pens, etc. The Osborne Company. 583,366, Dec. 8; Serial No. 633,865, published Sept. 1, 1953.

Chalk, Marking. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 631,951, published Mar. 24, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

Clips used for fastening wearing apparel. F. Schafer. 370,174, Aug. 22, 1939. Republished Dec. 8.

Loose-leaf binders and book covers. Brock & Rankin, Inc. 583,309, Dec. 8; Serial No. 625,845, published Sept. 1, 1953.

Loose leaf binders; writing paper; lead pencils; etc. Emanee Office Supply Co. 583,266, Dec. 8; Serial No. 599,820, published Sept. 1, 1953.

Paper, Rushmore Paper Mills, Inc. 310,733, renewed Mar. 6, 1954. O. G. Dec. 8.

Paper and stationery. Pacific Manifolding Book Company. 302,371, Apr. 18, 1933. Republished Dec. 8.

Paper backed aluminum foil. Cochran Foil Company. 583,433, Dec. 8; Serial No. 641,501, published Sept. 1, 1953.

Paper board, Corrugated. Packaging Materials Corp. 583,313, Dec. 8; Serial No. 626,819, published Sept. 15, 1953.

Paper, Flat printing and writing. Strathmore Paper Company. 314,091, June 19, 1934. Republished Dec. 8.

Paper, Writing and printing. Strathmore Paper Company. 318,611, Oct. 30, 1934. Republished Dec. 8.

Paper, Writing and printing. Strathmore Paper Company. 321,207, Jan. 22, 1935. Republished Dec. 8.

Paper, Writing and printing. Strathmore Paper Company. 327,883, Sept. 10, 1935. Republished Dec. 8.

Paper, Writing and printing. Strathmore Paper Company. 340,198, Nov. 3, 1936. Republished Dec. 8.

Paper, Writing and printing. Strathmore Paper Company. 345,770, May 4, 1937. Republished Dec. 8.

Paper, Writing and printing. Strathmore Paper Company. 346,352, May 25, 1937. Republished Dec. 8.

Paper, Writing and printing. Strathmore Paper Company. 357,607, June 7, 1938. Republished Dec. 8.

Paper, Writing and printing. Strathmore Paper Company. 389,247, July 29, 1941. Republished Dec. 8.

Paper, Writing and printing. Strathmore Paper Company. 403,152, Sept. 7, 1943. Republished Dec. 8.

Paper, Writing and printing. Strathmore Paper Company. 421,446, June 4, 1946. Republished Dec. 8.

Papers, Bond. Kaeser & Blair, Incorporated. 583,399, Dec. 8; Serial No. 637,995, published Sept. 15, 1953.

Papers, Wedding, ledger, photomount, book, cover, and writing, etc. Strathmore Paper Company. 137,485, Nov. 23, 1920. Republished Dec. 8.

Pens, Ball point. Scripto, Inc. 583,472, Dec. 8; Serial No. 643,793, published Sept. 15, 1953.

Pens, Fountain, mechanical pencils, and pen and pencil desk sets. The Parker Pen Company. 583,470, Dec. 8; Serial No. 643,782, published Sept. 15, 1953.

Pens, Fountain, mechanical pencils, and pen and pencil desk sets. The Parker Pen Company. 583,471, Dec. 8; Serial No. 643,785, published Sept. 15, 1953.

Pens, Fountain, stylographic, ball point, and other mechanical, mechanical pencils, etc. E. Hugetz. 583,312, Dec. 8; Serial No. 626,569, published Sept. 15, 1953.

Printed forms. The First National Bank of Chicago. 306,637, renewed Sept. 26, 1953. O. G. Dec. 8.

Wallpaper. Asam Wallpapers, Inc. 583,270, Dec. 8; Serial No. 605,249, published Sept. 1, 1953.

CLASS 38

Books, pamphlets, educational leaflets, etc. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,164, published Apr. 7, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

Publications, Periodical. National Parent-Teacher, Incorporated. 546,597, Aug. 14, 1951. New certificate. O. G. Dec. 8.

CLASS 39

Coats and suits, Ladies' and misses'. Leeds Ltd. Coats, Inc. 583,550, Dec. 8; Serial No. 647,701.

Coats and suits, Ladies' and misses'. Leeds Ltd. Coats, Inc. 583,551, Dec. 8; Serial No. 647,939.

Coats, Men's and boys' finger-tip. Lustberg, Nast & Co., Inc. 583,469, Dec. 8; Serial No. 643,768, published Sept. 8, 1953.

Coats, suits, jackets, etc., Women's, misses' and juniors'. Leeds Ltd. Coats, Inc. 583,552, Dec. 8; Serial No. 647,980.

Coats, vests, trousers, and overcoats. L. Greif & Bro., Inc. 221,126, Nov. 23, 1926. Republished Dec. 8.

Dresses, Ladies' and misses'. Beaumart Co. 583,553, Dec. 8; Serial No. 648,835.

Dresses, Women's and misses'. Albert Rosenblatt & Sons, Inc. 583,414, Dec. 8; Serial No. 640,228, published Sept. 8, 1953.

Ensembles, Ladies' and misses'. Art-Mor Togs Inc. 583,523, Dec. 8; Serial No. 614,607.

Footwear, Men's, women's, and children's, men's, women's, and children's rainwear, etc. J. Vaters, Jr. 583,531, Dec. 8; Serial No. 631,904.

Gloves, Fabric work. Good Luck Glove Company. 583,376, Dec. 8; Serial No. 635,132, published Sept. 8, 1953.

Gloves, Leather and fabric. Louis Fischl Glove Co. Ltd. 583,378, Dec. 8; Serial No. 635,826, published Sept. 8, 1953.

Handkerchiefs. The Herrmann Handkerchief Company, Inc. 583,427, Dec. 8; Serial No. 641,138, published Sept. 8, 1953.

Hosiery and undergarments, Women's. Barbara Jean's Beauty Sheer Hosiery, Inc. 583,370, Dec. 8; Serial No. 634,289, published Sept. 8, 1953.

Hosiery, Women's. The Nobil Shoe Company. 583,311, Dec. 8; Serial No. 626,527, published Sept. 1, 1953.

Hosiery, Women's. Phoenix Hosiery Company. 583,430, Dec. 8; Serial No. 641,325, published Sept. 1, 1953.

Pants, Women's and girls'. The William Carter Company. 583,493, Dec. 8; Serial No. 645,462, published Sept. 8, 1953.

Sandals. Kork-Ease, Inc. 583,533, Dec. 8; Serial No. 632,621.

Shoes. The Moran Shoe Company, Inc. 348,507, July 27, 1937. Republished Dec. 8.

Shoes, Women's and misses'. Saks & Company. 583,538, Dec. 8; Serial No. 637,464.

Sports and play garments. Sharpe Manufacturing Company, Inc. 583,315, Dec. 8; Serial No. 627,096, published Sept. 8, 1953.

Undergarments, Ladies'. I. B. Kleinert Rubber Company. 304,588, July 11, 1933. Republished Dec. 8.

CLASS 40

Brush and comb sets, Men's nylon. Empire Brushes, Inc. 583,530, Dec. 8; Serial No. 631,655.

Necktie clasps. M. M. Grubman. 583,548, Dec. 8; Serial No. 647,414.

Needles, Hand sewing, needle cases, needle threaders, etc. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,165, published June 9, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 42

Blankets, Woolen. AaBe Wollenstoffen- en Wollendekenfabrieken N. V. 583,394–5; Dec. 8; Serial Nos. 637,561–2; published Sept. 15, 1953.

Carpets, Woven. Clayton Carpet Mills. 583,542, Dec. 8; Serial No. 639,553.

Fabrics in the piece. Charles Bloom, Inc. 583,421, Dec. 8; Serial No. 640,667, published Sept. 15, 1953.

Fabrics, Molleton. Roll-O-Graphic Corporation. 583,342, Dec. 8; Serial No. 631,495, published Sept. 15, 1953.

Fabrics, Textile. Dan River Mills, Incorporated. 583,490, Dec. 8; Serial No. 645,360, published Sept. 15, 1953.

Fabrics, Textile. D. B. Fuller & Co. 583,549, Dec. 8; Serial No. 647,492.

Open weave cloth, Light weight. Raybestos-Manhattan, Inc. 583,323, Dec. 8; Serial No. 628,714, published Sept. 15, 1953.

Piece goods. Eagle Clothes, Inc. 583,294, Dec. 8; Serial No. 621,456, published Sept. 15, 1953.
Piece goods. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 636,946, published May 12, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Piece goods. Verney Corporation. 583,290, Dec. 8; Serial No. 620,793, published Oct. 14, 1952.
Piece goods, Woolen. Forstmann Woolen Co. 583,486, Dec. 8; Serial No. 645,132, published Sept. 15, 1953.
Rayon and cotton goods in the piece. Crown Fabrics Corporation. 309,869, renewed Feb. 6, 1954. O. G. Dec. 8.
Rugs and carpets, Textile. Rugcrofters, Inc. 583,532, Dec. 8; Serial No. 632,392.
Textile ribbons. Burlington Mills Corporation. 583,268, Dec. 8; Serial No. 601,018, published Sept. 15, 1953.

CLASS 43

Cellulose filaments, etc. Courtaulds, Limited. 237,082, Jan. 3, 1928. New certificate. O. G. Dec. 8.
Thread, Elastic. Lowell Covered Rubber Thread Co., Inc. 583,501, Dec. 8; Serial No. 646,072, published Sept 8, 1953.
Thread, Sewing. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 631,952, published Mar. 31, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Yarns. Courtaulds, Limited. 281,184, Mar. 10, 1931. New certificate. O. G. Dec. 8.

CLASS 44

Irons for massage and heat treatment, Electrically heated. Allied Commercial Corp. 583,387, Dec. 8; Serial No. 636,957, published Sept. 22, 1953.
Massager, Electro-mechanical. Ward Green Company. 583,487, Dec. 8; Serial No. 645,208, published Sept. 22, 1953.
Massaging and manipulating devices. C. Brandenfels. 583,454, Dec. 8; Serial No. 643,278, published Sept. 22, 1953.
Surgical stitching instruments, their parts and attachments, etc. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,166, published Mar. 3, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Syringes, Vaginal. Roycemore Toiletries, Inc. 583,500, Dec. 8; Serial No. 646,018, published Sept. 22, 1953.

CLASS 45

Beverages, Nonalcoholic maltless. M. J. White. 334,635, May 12, 1936. Republished Dec. 8.

CLASS 46

Candy. Embassy Chocolate Products Company. 583,287, Dec. 8; Serial No. 619,538, published Jan. 27, 1953.
Candy. Federal Sweets & Biscuit Co., Inc. 583,365, Dec. 8; Serial No. 633,760, published Jan. 27, 1953.
Candy. Miller-Elmer Manufacturing Co., Ltd. 115,368, Feb. 6, 1917. New certificate. O. G. Dec. 8.
Candy, Fudge, orange date pudding, plum pudding, etc. Mary Clark's Happy Heart Kitchens. 583,305, Dec. 8; Serial No. 624,129, published Aug. 25, 1953.
Canned citrus juices. Winter Garden Citrus Products Cooperative. 583,367–8, Dec. 8; Serial Nos. 633,899–900, published Sept. 8, 1953.
Canned dog food. Inland Products, Inc. 583,468, Dec. 8; Serial No. 643,764, published Aug. 4, 1953.
Canned fish. Strohmeyer & Arpe Company. 95,236, re-renewed Feb. 3, 1954. O. G. Dec. 8.
Canned fruit and berry pie fillings. Michigan Fruit Canners, Inc. 583,539, Dec. 8; Serial No. 638,092.
Canned fruits and canned vegetables. Flotill Products, Incorporated. 583,478, Dec. 8; Serial No. 644,228, published Sept. 8, 1953.
Canned fruits, canned vegetables, coffee, etc. Nathan Rosenblum & Company. 342,519, Jan. 19, 1937. Republished Dec. 8.
Canned ham. Robt. R. and R. W. Smith Ltd. 583,456, Dec. 8; Serial No. 643,379, published Aug. 4, 1953.
Canned prepared minced razor clams and crab meat. Wood & Pohoryles. 412,886, Mar. 27, 1945. New Certificate. O. G. Dec. 8.
Canned sardines. Aktieselskab Quality Canning Co. Limited. 583,360, Dec. 8; Serial No. 633,289, published Aug. 4, 1953.
Canned tuna fish. E. M. Nielsen. 583,485, Dec. 8; Serial No. 645,053, published Aug. 11, 1953.
Canned vegetables, canned fruits, and canned fish. Strohmeyer & Arpe Company. 94,956, re-renewed Jan. 13, 1954. O. G. Dec. 8.
Cereal, Breakfast. The Maltex Company, Inc. 383,792, Dec. 24, 1940. Republished Dec. 8, 1953.
Cheese. Camembert Industrie Heising, Hirschle & Immler. 309,358, renewed Jan. 9, 1954. O. G. Dec. 8.
Cheese. Pollio Dairy Products Corporation. 583,517, Dec. 8; Serial No. 579,293.
Coconut, Fancy shred. Sembodja Corporation of New York. 583,383, Dec. 8; Serial No. 636,742, published Aug. 4, 1953.
Coconut, Sweetened. K. J. Preiswerck Ltd. 583,503, Dec. 8; Serial No. 648,043, published Sept. 8, 1953.
Crackers. The B. Manischewitz Company. 310,407, renewed Feb. 27, 1954. O. G. Dec. 8.
Dairy products. F. H. Soldwedel Company. 583,369, Dec. 8; Serial No. 634,278, published Aug. 11, 1953.
Dressing for salads. Pfeiffer's Food Products, Inc. 583,522, Dec. 8; Serial No. 611,717.
Eggs, Frozen. Standard Brands Incorporated. 309,301, renewed Jan. 9, 1954. O. G. Dec. 8.
Feed, Cattle. Southern Milling Company. 583,480, Dec. 8; Serial No. 644,461, published Sept. 8, 1953.
Feeds, Poultry. Doughboy Industries, Inc. 583,272, Dec. 8; Serial No. 607,421, published Sept. 8, 1953.
Flour, Compound. Albers Bros. Milling Co. 95,192, renewed Feb. 3, 1954. O. G. Dec. 8.
Food preparation. Wass Food Products Company. 583,499, Dec. 8; Serial No. 645,750, published Sept. 8, 1953.
Food seasoning powder. T. K. Lee. 439,579, July 6, 1948. Republished Dec. 8.
Fruit preserves. Orchard Products Company. 583,261, Dec. 8; Serial No. 589,466, published Sept. 8, 1953.
Ice cream bars, Frozen coated. Ranger Ice Cream Company. 583,265, Dec. 8; Serial No. 596,751, published Sept. 8, 1953.
Ice cream stabilizer. Germantown Manufacturing Company. 583,488, Dec. 8; Serial No. 645,301, published Aug. 11, 1953.
Lettuce, Fresh. Lettuce, Incorporated. 583,374, Dec. 8; Serial No. 634,984, published Sept. 8, 1953.
Liquid concentrate of flavoring materials. Flavor Corporation of America. 583,460, Dec. 8; Serial No. 643,543, published Sept. 15, 1953.
Margarine. Standard Brands Incorporated. 583,504, Dec. 8; Serial No. 648,335, published Sept. 8, 1953.
Mayonnaise, cooking oil, and French dressing. The Capital City Products Company. 308,629, renewed Dec. 12, 1953. O. G. Dec. 8.
Monosodium glutamate for food seasoning purposes. The Huron Milling Company. 583,521, Dec. 8; Serial No. 611,132.
Onions. H. Feldman. 583,457, Dec. 8; Serial No. 643,414, published Aug. 4, 1953.
Package consisting of yeast, flour mixture and pizza sauce, Combination. Food Specialties, Inc. 583,458, Dec. 8; Serial No. 643,481, published Aug. 4, 1953.
Peanuts, Shelled. De Leon Peanut Company. 310,239, renewed Feb. 13, 1954. O. G. Dec. 8.
Potato chips, cheese puffs, corn chips, etc. Bell Brand Foods, Ltd. 583,519, Dec. 8; Serial No. 603,726.
Pretzels and pretzel sticks. Halter's Pretzels, Inc. 583,328, Dec. 8; Serial No. 629,944, published Sept. 8, 1953.
Rice. Converted Rice, Inc. 583,384, Dec. 8; Serial No. 636,773, published Sept. 8, 1953.
Rice, M. D. Green. 583,273, Dec. 8; Serial No. 607,547, published Aug. 4, 1953.
Rice. Rice Growers Association of California. 583,410, Dec. 8; Serial No. 639,393, published Aug. 4, 1953.
Sugar. The Great Western Sugar Company. 583,495, Dec. 8; Serial No. 645,481, published Sept. 8, 1953.
Vegetables, Fresh. Harmon & Reid. 583,547, Dec. 8; Serial No. 649,150.
Waffles, Partially baked frozen. Cottage Products, Incorporated. 583,465, Dec. 8; Serial No. 643,659, published Sept. 15, 1953.

CLASS 47

Wine, Pink. Julius Wile Sons and Co., Inc. 583,435, Dec. 8; Serial No. 641,702, published Sept. 8, 1953.
Wine, Port. Feuerheerd Brothers & Company, Limited. 309,208, renewed Jan. 9, 1954. O. G. Dec. 8.
Wines. The Globe Distributing Company. 583,546, Dec. 8; Serial No. 646,303.

CLASS 48

Beer. Boston Beer Company. 583,537, Dec. 8; Serial No. 636,626.
Beer. The Geo. Wiedemann Brewing Co., Inc. 583,520, Dec. 8; Serial No. 603,826.
Beer. The Geo. Wiedemann Brewing Co., Inc. 583,534, Dec. 8; Serial No. 633,095.
Beer, Lager. John Labatt Limited. 583,253, Dec. 8; Serial No. 571,647, published Sept. 8, 1953.

CLASS 49

Brandy. Alex D. Shaw & Co. 92,372, re-renewed July 1, 1953. O. G. Dec. 8.
Spirits—namely, whisky and other potable distilled liquors. Berry Bros. & Co. 306,022, renewed Sept. 5, 1953. O. G. Dec. 8.
Whiskey. The American Medicinal Spirits Company. 310,060, renewed Feb. 13, 1954. O. G. Dec. 8.
Whiskey. The American Medicinal Spirits Company. 310,070, renewed Feb. 13, 1954. O. G. Dec. 8.
Whiskey. The American Medicinal Spirits Company. 310,115, renewed Feb. 13, 1954. O. G. Dec. 8.
Whiskey. The American Medicinal Spirits Company. 310,122, renewed Feb. 13, 1954. O. G. Dec. 8.
Whiskey. The American Medicinal Spirits Company. 310,137, renewed Feb. 13, 1954. O. G. Dec. 8.

Whiskey. The American Medicinal Spirits Company. 310,434, renewed Feb. 27, 1954. O. G. Dec. 8.
Whisky, Scotch. Berry Bros. & Co. 307,412, renewed Oct. 24, 1953. O. G. Dec. 8.

CLASS 50

Artificial fruits, Decorative. Binita Gift Wares. 583,310, Dec. 8; Serial No. 625,956, published Aug. 25, 1953.
Caps and closure seals for bottles, cans and jars. Aluminum Seal Company, Inc. 583,254, Dec. 8; Serial No. 572,887, published Sept. 1, 1953.
Closure caps. Anchor Hocking Glass Corporation. 583,264, Dec. 8; Serial No. 595,584, published Aug. 25, 1953.
Container closures. Armstrong Cork Company. 583,396, Dec. 8; Serial No. 637,637, published Sept. 1, 1953.
Door knob covers. Art Anson, Inc. 583,443, Dec. 8; Serial No. 642,196, published Sept. 1, 1953.
Dress forms, and dress form stands. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,167, published Feb. 24, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37 38, 40, 42, 43, 44, 50, and 52.)
Monuments, Cemetery. J. K. Shawvan. 583,301, Dec. 8; Serial No. 622,962, published Sept. 1, 1953.
Poultry blinders, Antipicking. Chiklip Company. 583,289, Dec. 8; Serial No. 620,772, published Aug. 25, 1953.
Rubber-fibre tie pads designed to be used in conjunction with railroad tie plates. American Brake Shoe Company. 583,352, Dec. 8; Serial No. 632,281, published Sept. 1, 1953.
Tarpaulins, burlap covers, canvas covers, etc. Max Katz Bag Company Inc. 583,295, Dec. 8; Serial No. 621,886, published Aug. 25, 1953.

CLASS 51

Cologne, shave lotion, talcum powder, etc. Sears, Roebuck and Co. 583,298 Dec. 8; Serial No. 622,033, published Sept. 8, 1953.
Hair preparations, Gray. H. H. Faulkner. 583,293, Dec. 8; Serial No. 621,396, published May 12, 1953.
Pomade, Hair. S. L. Caponette. 583,307, Dec. 8; Serial No. 624,730, published Sept. 8, 1953.
Shaving lather. Reddi Pressure Products Inc. 583,526, Dec. 8; Serial No. 624,206.
Sheen rinse, cold wave solution, cream oil solution, etc. Audrey Gilda Products, Inc. 583,256, Dec. 8; Serial No. 581,240, published Dec. 18, 1951.
Toilet and cosmetic product. Pond's Extract Company. 583,463–4, Dec. 8; Serial Nos. 643,609–10, published Sept. 15, 1953.
Toilet preparations. G. Wilkins. 583,466, Dec. 8; Serial No. 643,747, published Sept. 15, 1953.
Toiletries. Wallach's, Inc. 583,393, Dec. 8; Serial No. 637,469, published Sept. 8, 1953.
Tooth paste. Worcester Salt Company. 306,059, renewed Sept. 5, 1953. O. G. Dec. 8.

CLASS 52

Petroleum derivatives for use in cleaning metallic machine elements. The Singer Manufacturing Company. 583,337, Dec. 8; Serial No. 630,159, published Feb. 24, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 103

Cleaning and glazing of furs and fur garments. N. Root. 583,509, Dec. 8; Serial No. 571,293, published Sept. 15, 1953.
Cleaning and painting the interior of pipe lines, wells and the like. Pipelife, Inc. 583,514, Dec. 8; Serial No. 641,965, published Sept. 15, 1953.
Cleaning of fur coats. Morton's Inc. 583,512, Dec. 8; Serial No. 618,549, published Sept. 15, 1953.
Making photographic prints, developing and printing photographic films, etc. Diebold, Incorporated. 583,510, Dec. 8; Serial No. 585,108, published Sept. 15, 1953.
Repair and maintenance of cargo trailers. Trailmobile Inc. 583,515, Dec. 8; Serial No. 643,253, published Sept. 8, 1953.

CLASS 106

Heat treating metals and metal alloys. Metallurgical Laboratories, Inc. 583,513, Dec. 8; Serial No. 634,540, published Sept. 8, 1953.

CLASS 107

Producing motion picture film. J. Convery. 583,511, Dec. 8; Serial No. 602,022, published Sept. 8, 1953.

LIST OF PLANT PATENTEES

Pinchbeck, William E., assignor to William Pinchbeck, Inc., Guilford, Conn. Rose plant. 1,232, Dec. 8.

Pinchbeck, William, Inc., assignee: *See*— Pinchbeck, William E.

LIST OF DESIGN PATENTEES

Aberman, Sheldon J., Miami Beach, Fla. Handbag. 171,019, Dec. 8.

Anderson, Alvin S., Chicago, Ill. Combined birdbath and solarium for growing plants. 171,020, Dec. 8.

Anderson, Clifford L.: *See*— Armstrong, Norman D., and Anderson.

Apex Accessories Co., Inc., assignee: *See*— Pinson, Alfred.

Arch, Anna, New York, N. Y. Table lamp. 171,021, Dec. 8.

Armstrong, Norman D., Burbank, and C. L. Anderson, Los Angeles, Calif. Exhaust pipe jettison. 171,022, Dec. 8.

Bacheller, "D" Flavius, Glendale, Calif. Atomizer or similar article. 171,023, Dec. 8.

Blondeel, Camiel A., Chicago, Ill. Plaque. 171,024, Dec. 8.

Bloomfield Industries, Inc., assignee: *See*— Meara, William F.

Bochory, Ilon, New York, N. Y. Combination pocket tool. 171,025, Dec. 8.

Bogdanovich, Sergei, Carmel, assignor to Weil & Durrse, Inc., New York, N. Y. Woven textile fabric. 171,026, Dec. 8.

Borg-Erickson Corp., assignee: *See*— Wagner, Franz.

Boucher, Marcel, et Cie., assignee: *See*— Semensohn, Raymonde.

Bulman, E. O., Manufacturing Company, Inc., The, assignee: *See*— Waltz, Edward.

Chernow, Michael, New York, N. Y. Link chain. 171,027, Dec. 8.

Chernow, Michael, New York, N. Y. Link chain for a necklace or similar article. 171,028, Dec. 8.

Coleman, Garlin J., New York, N. Y. Toothbrush cabinet. 171,029, Dec. 8.

Coro, Inc., assignee: *See*— Katz, Adolph.

Courtney, Gerald, Hollywood, Calif. Pair of spectacles. 171,030, Dec. 8.

Dexter-Mahnke Inc., assignee: *See*— Mecus, Edward E.

Fleming, Mary P., Newark, N. J., assignor to Oneida Ltd., Oneida, N. Y. Spoon or similar article. 171,031, Dec. 8.

Goettsche, Roy, Saginaw, Mich. House trailer. 171,032, Dec. 8.

Gordon, Lawrence W., Stockton, Calif. Display rack or the like. 171,033, Dec. 8.

Greppin, Ernest H., Brighton, assignor to Wilmot Castle Company, Rochester, N. Y. Surgical lighting fixture. 171,034, Dec. 8.

Hadley Company Limited, The, assignee: *See*— Rosser, Neil K. G.

Johnson, Leonard B., Smethport, Pa. Illuminable decorative device. 171,035, Dec. 8.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a necklace or the like. 171,036, Dec. 8.

Lee, Harold V., College Point, N. Y. Aquarium. 171,037, Dec. 8.

Levine, Louis, New York, N. Y. Combined food server and tongs therefor. 171,038, Dec. 8.

Loeb, Robert V., Los Angeles, Calif. Slicing aid. 171,039, Dec. 8.

Lord, Roy A., Evanston, Ill. Fishing lure or similar article. 171,040, Dec. 8.

Lynard of California, Inc., assignee: *See*— Rosenthal, William.

Meara, William F., Oak Park, assignor to Bloomfield Industries, Inc., Chicago, Ill. Candle lamp. 171,041, Dec. 8.

Mecus, Edward E., Shorewood, assignor to Dexter-Mahnke Inc., Milwaukee, Wis. Planter lamp. 171,042, Dec. 8.

Moore, James P., Daly City, Calif. Combined salt and pepper shaker. 171,043, Dec. 8.

Morgan, Ralph J., Youngstown, Ohio. Horn ring extension. 171,044, Dec. 8.

Noe, William M., South Pasadena, Calif. Safety belt buckle. 171,045, Dec. 8.

Obstfeld, Abraham, assignee: *See*— Schmidt, Fredrick W.

Obstfeld, Lou, assignee: *See*— Schmidt, Fredrick W.

Oneida Ltd., assignee: *See*— Fleming, Mary P.

Pinson, Alfred, Stamford, assignor to Apex Accessories Co., Inc., Greenwich, Conn. Expansible link chain for a wristband or similar article. 171,046, Dec. 8.

Pinson, Alfred, Stamford, assignor to Apex Accessories Co., Inc., Greenwich, Conn. Expansible link chain for a wristband or similar article. 171,047, Dec. 8.

Pyrene Manufacturing Company, assignee: *See*— Van Sciver, Edwin P.

Randall, Neil F., Ogden, Utah. Game board. 171,048, Dec. 8.

Romrell, Clarence L., Portland, assignor to Sawyer's Inc., Progress, Oreg. Stereoscopic viewer. 171,049, Dec. 8.

Rosen, Martin, Flushing, N. Y. Gravy boat or the like. 171,050, Dec. 8.

Rosenthal, William, assignor to Lynard of California, Inc., Culver City, Calif. Table lamp. 171,051, Dec. 8.

Rosser, Neil K. G., Long Ditton, assignor to The Hadley Company Limited, Surbiton, England. Spectacle frame. 171,052, Dec. 8.

Rudder, Treasure, San Francisco, Calif. Ship's course board. 171,053, Dec. 8.

Sachar, Maison, New York, N. Y. Telescopic cigarette box. 171,054, Dec. 8.

Sawyer's Inc., assignee: *See*— Romrell, Clarence L.

Schell, Burt E., Jr., Mundelein, assignor to Shure Brothers, Incorporated, Chicago, Ill. Microphone. 171,055, Dec. 8.

Schiaparelli, Elsa, Paris, France. Pair of eyeglasses or similar article. 171,056, Dec. 8.

Schmidt, Fredrick W., Haworth, N. J., assignor to L. Obstfeld, Brooklyn, and A. Obstfeld, New York, N. Y. Staple driving machine. 171,057, Dec. 8.

Seco Company, Inc., assignee: *See*— Towns, Clifford C.

Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Brooch or similar article. 171,058, Dec. 8.

Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Earring or similar article. 171,059, Dec. 8.

Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Brooch or similar article. 171,060, Dec. 8.

Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Brooch or similar article. 171,061, Dec. 8.

Shure Brothers, Incorporated, assignee: *See*— Schell, Burt E., Jr.

Smith, Edward W., Naval Base, S. C. Fishing plug. 171,062, Dec. 8.

Starek, Louise V., Parma, Ohio. Driver's glove. 171,063, Dec. 8.

Taraborelli, Albert T., Providence, R. I. Rug. 171,064, Dec. 8.

Towns, Clifford C., Richmond Heights, assignor to Seco Company, Inc., St. Louis, Mo. Serving tray. 171,065, Dec. 8.

Van Sciver, Edwin P., Philadelphia, Pa., assignor to Pyrene Manufacturing Company, Newark, N. J. Fire extinguisher. 171,066, Dec. 8.

Wagner, Franz, assignor to Borg-Erickson Corp., Chicago, Ill. Platform scale. 171,067, Dec. 8.

Wagner, Franz, assignor to Borg-Erickson Corp., Chicago, Ill. Platform scale. 171,068, Dec. 8.

Waldecker, Donald C., Rockford, Ill. Game board. 171,069, Dec. 8.

Waltz, Edward, assignor to The E. O. Bulman Manufacturing Company, Inc., Grand Rapids, Mich. Combined roll paper holder and cutter. 171,070, Dec. 8.

Weil & Durrse, Inc., assignee: *See*— Bogdanovich, Sergei.

Wilmot Castle Company, assignee: *See*— Greppin, Ernest H.

Wylie, Joseph S., Oklahoma City, Okla. Asphalt patching plant. 171,071, Dec. 8.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

ARMAG Spezialwerkzeuge und Maschinen A. G., assignee: *See*—
Rüegg, Arnold.

Abrams, Morris, assignor to Arrow Fastener Co., Inc., Brooklyn, N. Y. Hammer type stapler. 2,661,999, Dec. 8.

Achenbach & Butler, Inc., assignee: *See*—
Butler, Leon E., and Siemers.

Adams, Cecil E., assignor to The Denison Engineering Company, Columbus, Ohio. Hydraulic apparatus. 2,661,766, Dec. 8.

Adams, George D., Jr., and H. L. Humphries, Gotebo, Okla.; said Adams assignor to E. H. McDonald, Oklahoma City, Okla. Fishing rod holder. 2,661,563, Dec. 8.

Adams, William G., Richmond, Va. Portable crane. 2,661,854, Dec. 8.

Addressograph-Multigraph Corporation, assignee: *See*—
Wallace, George H.

Advance Holding Corporation, assignee: *See*—
Littman, Lawrence.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Arthur, Jett C., Jr., and Hogan.
Mehltretter, Charles L., and Rankin.

Aguinek, Harry: *See*—
Mishcon, Samuel, and Aguinek.

Ahles, Robert D., Schenectady, N. Y., assignor to General Electric Company. Cast tool steel. 2,662,010, Dec. 8.

Air Controls, Inc., assignee: *See*—
Frick, Edward J.

Air Products, Incorporated, assignee: *See*—
Pavlis, Frank E.

Ajam, Mustafa J., Amherst, N. H., J. R., Paradis, Malden, and C. A. Bergman, Melrose, assignors to Standard Duplicating Machines Corporation, Everett, Mass. Adjusting mechanism for master copies on duplicating machines and the like. 2,661,688, Dec. 8.

Aktiebolaget Bofors, assignee: *See*—
Killier, Nils-Erik G., and Thorildsson.

Albert, William J., South Bend, Ind. Auxiliary drain plug. 2,661,860, Dec. 8.

Albertson, Walter H., High Point, N. C., and R. L. Mittelstadt, assignors to Paramount Textile Machinery Co., Kankakee, Ill. Hosiery drying form. 2,661,877, Dec. 8.

Alderson, Samuel W., Westport, Conn. Locking means for pivotal joints. 2,661,479, Dec. 8.

Alfieri, Giuseppe, Milan, Italy. Fluid pressure motor. 2,661,726, Dec. 8.

Allegheny Ludlum Steel Corporation, assignee: *See*—
Southern, Raymond L.

Allen & Hanburys Limited, assignee: *See*—
Eastland, Cyril J., Taylor, and Collier.

Allen, James E., and W. H. Cantrell, Thayer, Mo. Spreader panel bullet. 2,661,694, Dec. 8.

Allen, Philip H.: *See*—
Chromy, Benjamin J., and Allen.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Sealey, William C.

Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Dreyfus, Ludwig.
Forssell, Harry.

Aluminum Company of America, assignee: *See*—
Mason, Ralph B., and Cochran.

American Enka Corporation, assignee: *See*—
Griset, Ernest J., Jr., and Lynch.
Sullivan, Milton A.
Teunissen, Pieter H.

American Gravity Door Closer, Inc., assignee: *See*—
Kalleberg, Kornelius.

American Hardware Corporation, The, assignee: *See*—
Welch, Nicholas A., and Zelgenhein.

American Machine and Metals, Inc., assignee: *See*—
Miller, Hercheal W., and Buss.

American Optical Company, assignee: *See*—
Heath, William B.
Kavanagh, Arthur J.

American Planetarium Corporation, assignee: *See*—
Korkosz, Frank D.

American Safety Razor Corporation, assignee: *See*—
Treiss, Herman G., Jr.

American Steel Foundries, assignee: *See*—
Kowalik, John J.
Tack, Carl E.

American Tobacco Company, The, assignee: *See*—
Schoenbaum, Alexander W., and Barnes.

American Viscose Corporation, assignee: *See*—
Bessom, John A.
Lowe, William B., and Pape.

Amozurrutia, Jesus M., Mexico City, Mexico, assignor to Miranda Brothers Trading Corporation, New York, N. Y. Preparation of therapeutic compositions from spleen tissue. 2,662,047, Dec. 8.

Andershock, Chester E., assignor to Goodman Manufacturing Company, Chicago, Ill. Tramming drive for mining and loading machine. 2,661,629, Dec. 8.

Anderson, Ernest O., San Jose, Calif. Pulsating type tire gauge. 2,661,760, Dec. 8.

Anderson, John R., Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic head. 2,662,120, Dec. 8.

Anderson, Wilmer C., assignor to Deering Milliken Research Trust, Greenwich, Conn. Protective device. 2,661,551, Dec. 8.

Andrew, Clyde M., assignor to Blue Bell, Inc., Greensboro, N. C. Making a label. 2,662,033, Dec. 8.

Angell, Robert C., Prince Bay, N. Y., assignor to R. B. Black, Corpus Christi, Tex. Equipment for treating teeth by means of finely powdered materials carried by a stream of gas. 2,661,537, Dec. 8.

Ansbacher-Siegle Corporation, assignee: *See*—
Holtzman, Harris, and Simon.

Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen Energa, assignee: *See*—
Brandt, Edgar W.

Anthony, Myron L.: *See*—
Virkus, Robert M., and Anthony.

Antonevich, Michael: *See*—
Crawford, Alfred, and Antonevich.

Appell, Herbert W., Mattapan, Mass. Dispensing means for fountain brushes. 2,661,874, Dec. 8.

Archer, Hugh M., Dearborn, Mich. Fluid container. 2,661,743, Dec. 8.

Arevalo, José A.: *See*—
Cerna, Carlos G., and Arevalo.

Armco Steel Corporation, assignee: *See*—
Bauer, George F.
Wiley, Allen D.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Nelson, Jessie A.

Arnolt Corporation, assignee: *See*—
Kolbe, John A.

Arranga, Edmund V., and A. J. Malley, Syracuse, N. Y. Carton. 2,661,891, Dec. 8.

Arrow Fastener Co., Inc., assignee: *See*—
Abrams, Morris.

Art Specialty Co., assignee: *See*—
Fiori, Irving.

Arthur, Jett C., Jr., Metairie, and J. T. Hogan, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Cottonseed meal glue. 2,662,023, Dec. 8.

Artkraft Manufacturing Corporation, assignee: *See*—
Lanker, Donald J.

Aspelin, Frans E., Nabnasset, assignor to H. E. Fletcher Company, West Chelmsford, Mass. Jig for drilling key lewis slots. 2,661,929, Dec. 8.

Associated Electrical Industries Limited, assignee: *See*—
Dyson, James.

Atlas Mineral Products Company of Pennsylvania, The, assignee: *See*—
Seymour, Raymond B., and Pascoe.

Atlas Powder Company, assignee: *See*—
Griffin, William C.
Kass, Peter.
Kass, Peter, and Lew.

Attapulgus Minerals & Chemicals Corporation, assignee: *See*—
Duke, James B., and Houston.

Attenhofer, Adolf, Zurich, Switzerland. Ski-fastening device. 2,661,957, Dec. 8.

Attwell, Doris administratrix: *See*—
Martin, Victor.

Auslender, Pearl, Chicago, Ill. Maternity garment. 2,661,475, Dec. 8.

Autocall Company, The, assignee: *See*—
Seaton, Harold E.

Automatic Bedding Corporation, assignee: *See*—
Gursky, Meyer.

Automatic Benders, Inc., assignee: *See*—
Esslinger, Paul W.

Automatic Systems Corporation, assignee: *See*—
Saunders, Clarence.

Baggott, Edmund W., New York, N. Y., assignor to Ideal Toy Corporation. Changeable feature doll. 2,661,572, Dec. 8.

Baggott, James M., Zeigler, Ill. Making joint. 2,662,045, Dec. 8.

Baker, Charles H.: *See*—
Lindell, Sigurd I., and Baker.

Baker, Marshall W., assignor to General Motors Corporation, Dayton, Ohio. Open top display refrigerating apparatus. 2,661,604, Dec. 8.

Baldwin, Franklin H., Larchmont, assignor to Ethyl Corporation, New York, N. Y. Condensation process. 2,662,097, Dec. 8.

Bales, Max G., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ignition distributor and coil unit. 2,662,105, Dec. 8.

Bales, Max G., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Resistor terminal. 2,662,151, Dec. 8.

Ballard, Stephen, Jr., and P. Renold, Colwall, Malvern, England. Means for grading articles by size. 2,661,840, Dec. 8.

Ballou, Richard P., Hartford, Conn., assignor to Federal Electric Products Company, Newark, N. J. Terminal construction for electrical apparatus. 2,662,221, Dec. 8.

Bangsbergh, Lester R., Dobbs Ferry, assignor to H. T. Mann, New York, N. Y. Film strip advancing mechanism for projectors. 2,661,656, Dec. 8.

Bargen, William J., Waukegan, Ill. Book holder and desk top. 2,661,569, Dec. 8.

Barkelew, Richard C., Sierra Madre, Calif. Sealing means for fluid valves. 2,661,925, Dec. 8.

Barnes, Harold L.: *See*—
Schoenbaum, Alexander W., and Barnes.

Barr & Stroud, Limited, assignee: *See*—
French, James W.

Bauer, George F., assignor to Armco Steel Corporation, Middletown, Ohio. Sheet piler end stop structure. 2,661,949, Dec. 8.

Baxter, Joseph, Jr.: *See*—
Petry, Lewis W., and Baxter.

Baxter, Joseph, Jr., Franklin, assignor to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,661,664, Dec. 8.

Bayer, Frank C.: *See*—
Noon, T. Cyril, and Bayer.

Bean, Arthur I., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Apparatus for measuring backlash in gears. 2,661,542, Dec. 8.

Beard, John F., Great Baddow, Chelmsford, assignor to Marconi's Wireless Telegraph Company Limited, London, England. Frequency shift telegraph receiver. 2,662,114, Dec. 8.

Beattie, Horace S., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. High speed printing mechanism. 2,661,683, Dec. 8.

Bechberger, Paul F., Tenafly, and J. E. Bevins, Ramsey, assignors to Bendix Aviation Corporation, Teterboro, N. J. Air speed indicating device. 2,661,624, Dec. 8.

Bechman, William O., and N. J. Palkovic, Chicago, Ill., assignors to International Harvester Company. Change speed transmission for vehicles. 2,661,634, Dec. 8.

Beckett Paper Company, The, assignee: *See*—
Friedrich, Valentine, Jr.

Beech-Nut Packing Company, assignee: *See*—
Merz, Paul L., Witzel, and Burhans.

Behrens, Derick J.: *See*—
Wolff, Heinz S., Story, and Behrens.

Bell, Jessie, Tacoma, Wash. Two-wheeled child's carriage. 2,661,959, Dec. 8.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Anderson, John R.
Koenig, Walter, Jr.
McMillan, Brockway.
Ryder, Robert M.

Bemis Bro. Bag Co., assignee: *See*—
Kindseth, Harold V.

Benden, Cletus A.: *See*—
Lee, Robert E., and Benden.

Bendix Aviation Corporation, assignee: *See*—
Bechberger, Paul F., and Bevins.
Hennessey, Walter F., Jr., and Swanson.
Hollister, James F.
Thomas, Thomas H.

Benyak, John B., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Brush and mechanism for making same. 2,661,490, Dec. 8.

Berger, Kornel, Kew Gardens, N. Y. Lamp harp. 2,662,166, Dec. 8.

Bergman, Carl A.: *See*—
Ajam, Mustafa J., Paradis, and Bergman.

Bergmann, Ernst R., Evergreen Park, assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer. 2,661,834, Dec. 8.

Berles, James J., Fort Wayne, Ind. Comestible chopping device. 2,661,535, Dec. 8.

Berry, Clifford E., Altadena, assignor to Consolidated Engineering Corporation, Pasadena, Calif. Mass spectrometry. 2,662,184, Dec. 8.

Berry, John V., Johnstown, Pa. Car coupling apparatus. 2,661,851, Dec. 8.

Berry, Kenneth L., Hockessin, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Obtaining dispersions of polyfluoroethylenes. 2,662,065, Dec. 8.

Bertele, Ludwig, Heerbrugg, Switzerland. Objective comprising three lens members axially air separated from each other in optical alignment. 2,661,660, Dec. 8.

Beseler, Charles, Company, assignee: *See*—
Field, Philip M.

Bessom, John A., Media, Pa., assignor to American Viscose Corporation, Wilmington, Del. Tube for treating fibers and the like with fluid under pressure. 2,661,618, Dec. 8.

Bevins, James E.: *See*—
Bechberger, Paul F., and Bevins.

Billica, Harry R., Seaford, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparing monomeric glycol terephthalates. 2,662,093, Dec. 8.

Bilofsky, Myers A., Loch Arbour, and C. W. Putnam, Morristown, N. J. Vaporizer. 2,662,159, Dec. 8.

Binghamton Metal Forms, Inc., assignee: *See*—
Yates, Richard C.

Binney and Smith Company, assignee: *See*—
Vogel, Max R., La Barre, and Perry.

Birmingham, John N., Nutley, N. J., assignor to Celanese Corporation of America, New York, N. Y. Extrusion apparatus. 2,661,497, Dec. 8.

Bishop, J., & Co. Platinum Works, assignee: *See*—
Hickey, George M.

Black-Clawson Company, The, assignee: *See*—
Baxter, Joseph, Jr.
Petry, Lewis W., and Baxter.

Black, Robert B., assignee: *See*—
Angell, Robert C.

Blatt, Paula, Berea, Ohio. Girdle. 2,661,469, Dec. 8.

Blaurock, Edward E., Fort Wayne, Ind., assignor to United States Rubber Company, New York, N. Y. Apparatus for molding. 2,661,498, Dec. 8.

Blenkle, Herbert A., Leonia, N. J., assignor to James P. Guarnieri, Inc., New York, N. Y. Multiple position fluid pressure actuated apparatus. 2,661,724, Dec. 8.

Blok, Lourens, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. High-frequency furnace. 2,662,162, Dec. 8.

Blue Bell, Inc., assignee: *See*—
Andrew, Clyde M.

Bobbitt, Ernest L., Wheeling, W. Va. Glove. 2,661,476, Dec. 8.

Boeing Airplane Company, assignee: *See*—
Myers, Gene R.

Boelens, Willem W.: *See*—
Cock, Ludolf J., Dammers, Boelens, and de Miranda.

Boelens, Willem W., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Radio receiving circuit with automatic volume control and noise suppressing means. 2,662,170, Dec. 8.

Bonanno, Joseph L., Madison, N. J., assignor to The Lionel Corporation, New York, N. Y. Toy electric railroad. 2,661,852, Dec. 8.

Boosman, Herman B. R., London, England, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Generation of electric oscillation. 2,662,182, Dec. 8.

Boots Pure Drug Company Limited, assignee: *See*—
Short, Wallace F., Peak, and Watkins.

Borden Company, The, assignee: *See*—
Clark, Laurence E., Jr., and MacLagan.

Boston Machine Works Company, assignee: *See*—
Osgood, Walter P.

Boterweg, Dirk, S. Breimer, and A. G. Robeer, Hilversum, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Tunable high-frequency push-pull power amplifier. 2,662,127, Dec. 8.

Bowdey, R. Donald: *See*—
Norgren, Carl A., Mosier, Bowdey, and Metzger.

Bowditch, Hoel L., assignor to The Foxboro Company, Foxboro, Mass. Pneumatic valve precise positioning device. 2,661,725, Dec. 8.

Brandt, Edgar W., Geneva, Switzerland, assignor to Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen Energa, Vaduz, Liechtenstein. Projectile. 2,661,691, Dec. 8.

Branson, George A., Mountain Home, Idaho. Motor plow. 2,661,673, Dec. 8.

Breimer, Sytze: *See*—
Boterweg, Dirk, Breimer, and Robeer.

Brewer, Nathaniel, Newtown, assignor to Fischer & Porter Company, Hatboro, Pa. Telemetering impedance bridge. 2,662,223, Dec. 8.

Brewer, Reife N., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Core blower. 2,661,513, Dec. 8.

Bridger, Grover L., Ames, Iowa, and H. M. Chang, Kowloon, Hong Kong, assignors to Iowa State College Research Foundation, Inc., Ames, Iowa. Separation of menthol from mint oils by a fractional distillation process. 2,662,052, Dec. 8.

Bridges, Jack E., Chicago, Ill., assignor to Zenith Radio Corporation. Phase shift oscillating system. 2,662,183, Dec. 8.

Bright, Cooper B., U. S. Navy. Hydraulic drive internal-combustion engine. 2,661,592, Dec. 8.

Brink, Robert M., assignor to Deering Milliken Research Trust, Greenwich, Conn. Tensiometer. 2,661,623, Dec. 8.

Brinkman, Earl W., Gates, assignor to Davenport Machine Tool Co., Inc., Rochester, N. Y. Punching method and tool. 2,661,663, Dec. 8.

Bristol Aeroplane Company Limited, The, assignee: *See*— D'Assis Fonseca, Evelyn C. M.

British Enka Limited, assignee: *See*— Stone, Eliot, Sparke, and Muldowney.

Brooks, Robert A., Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Copper complexes of monosulfonamido formazyl dyes. 2,662,074, Dec. 8.

Brooks, Robert A., Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Copper complexes of monosulfonamido formazyl dyes. 2,662,075, Dec. 8.

Brown, Alfred E., and A. M. Sookne, Washington, D. C., and F. W. Minor, Arlington, Va., assignors, by mesne assignments, to Harris Research Laboratories. Rendering organic textile material water repellent and composition therefor. 2,662,039, Dec. 8.

Brown, Herbert F., Cranford, and R. H. Maass, Madison, N. J., assignors to Standard Oil Development Company. Expansion joint. 2,661,963, Dec. 8.

Brown, Stanley C.: *See*— Crookston, Robert R., and Brown.

Brown, Theodore E., Berwyn, Ill. Stack jogger. 2,661,950, Dec. 8.

Brown, Walter T., Pittsburgh, Pa. Hermetic seal for coke oven doors. 2,662,053, Dec. 8.

Brown, William E., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Engine starter control. 2,662,189, Dec. 8.

Browner, William J., San Francisco, assignor to Relaxacizor, Inc., Los Angeles, Calif. Device for treatment of the muscles of the upper torso. 2,661,744, Dec. 8.

Bruegger, Ernest, Massillon, Ohio, assignor to The Griscom Russell Company, New York, N. Y. Making fin tubing. 2,661,526, Dec. 8.

Brundage, Clinton F.: *See*— Jacobson, Irving, Brundage, and Moore.

Brustein, Sam, Akron, Ohio. Garbage can support. 2,661,921, Dec. 8.

Bryan, George W., assignor to Electro-Hydraulics Limited, Warrington, England. Airplane landing gear. 2,661,916, Dec. 8.

Bryant, Austin U., Berkeley, assignor, by mesne assignments, to Grove Regulator Company, Emeryville (Oakland), Calif. Valve construction. 2,661,762, Dec. 8.

Bubb, Frank W., Webster Grooves, Mo., assignor to Phillips Petroleum Company. Pumping system analogue. 2,661,898, Dec. 8.

Buchner, Robert B., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Line-finder stopping circuit. 2,662,119, Dec. 8.

Buckeridge, Roger M., Downers Grove, assignor to Goodman Manufacturing Company, Chicago, Ill. Conveyer belt brake control system. 2,661,832, Dec. 8.

Buckingham, William D., Southampton, assignor to The Western Union Telegraph Company, New York, N. Y. Concentrated arc lamp. 2,662,196, Dec. 8.

Bud, Hans, London, England. Counting device. 2,661,904, Dec. 8.

Budd Company, The, assignee: *See*— Dean, Albert G.

Budner, Stephen A., assignee: *See*— Mullins, James H.

Buettner, Arthur J. C., Dallas, Tex. Brake system filter and indicator. 2,661,847, Dec. 8.

Buhler, Eugen, Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Check writing interpreter. 2,661,684, Dec. 8.

Bullock, Giles E., Rochester, N. Y. Fruit picking apparatus. 2,661,587, Dec. 8.

Burhans, Allison S.: *See*— Merz, Paul L., Witzel, and Burhans.

Burlein, Lester F., assignor to Cloverleaf-Freeland Corporation, Honesdale, Pa. Doubled bushed center core bobbin. 2,661,912, Dec. 8.

Burmeister, Howard F., Harvey, assignor to Royal Electric Manufacturing Co., Chicago, Ill. Disconnect switch. 2,662,133, Dec. 8.

Burney, Charles D., assignor to Fresh Frozen Foods Ltd., London, England. Trawling otter. 2,661,562, Dec. 8.

Burns, William A., and W. F. Johnson, Richland, Wash., assignors to the United States of America as represented by the United States Atomic Energy Commission. Plate design for pulse columns. 2,662,001, Dec. 8.

Burton, Robert E., Willits, Calif. Bark peeler having pivoted jaws spread by fluid pressure. 2,661,782, Dec. 8.

Buschman, E. W., Company, The, assignee: *See*— Vogt, Rudolph B., and Keville.

Bush, Leroy F., Edwardsville, Kans. Sand classifying apparatus. 2,661,839, Dec. 8.

Buss, Benjamin A.: *See*— Miller, Hercheal W., and Buss.

Butler, Leon E., Philadelphia, and F. J. Siemers, Havertown, assignors to Achenbach & Butler, Inc., Philadelphia, Pa. Insulated air duct. 2,661,769, Dec. 8.

C-O-Two Fire Equipment Company, assignee: *See*— Haessler, Walter M.

Calender, Clarence R. *See*— Liggett, Edward R., and Calender.

Campbell, Michael F., Sterling, Colo. Intermittently-variable drive mechanism. 2,661,953, Dec. 8.

Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Intercommunicating apparatus. 2,662,115, Dec. 8.

Canadian Radium & Uranium Corporation, assignee: *See*— Wells, Winston.

Cantrell, William H.: *See*— Allen, James E., and Cantrell.

Carbodies Limited, assignee: *See*— Orr, John H.

Carlson, Henry L., Kings Park, N. Y. Concrete mold molding process. 2,661,518, Dec. 8.

Carter Carburetor Corporation, assignee: *See*— Edelen, James L.

Carter Products, Inc., assignee: *See*— McBean, Douglas M.

Case, J. I., Company, assignee: *See*— Hansen, Charles W. Heth, Sherman C. Krause, Norman R., and Heth.

Casey, Arthur B., Montoursville, Pa. Catapult with improved fork and sling. 2,661,731, Dec. 8.

Caskey, Readey, Jr., Brownwood, Tex. Bandage. 2,661,739, Dec. 8.

Castiglia, Thomas, assignor to Wheel Aligning Necessities, Inc., New York, N. Y. Optical projection leveling device. 2,661,653, Dec. 8.

Caston, Henry E., Akron, Ohio. Quickly attachable or removable surface clamp. 2,661,783, Dec. 8.

Cavanagh, John F., Cranston, R. I. Magazine safety razor. 2,661,530, Dec. 8.

Celanese Corporation of America, assignee: *See*— Birmingham, John N.

Central Railway Supply Company, assignee: *See*— Johnson, Malcolm S., and Ray.

Cerna, Carlos G., and J. A. Arevalo, Guatemala City, Guatemala. Key operated switch. 2,662,131, Dec. 8.

Chamberlin, Ernest B.: *See*— Lash, Gerland A., and Chamberlin.

Chambon, Louis J., assignor to Societe d'Etudes de Machines Speciales Societe a Responsabilite Limitee, Paris, France. Method and machine for interleaving and stacking sheets of paper and similar materials. 2,661,946, Dec. 8.

Chance, William B., St. Clairsville, Ohio. Apparatus for printing continuous designs on roll paper and the like. 2,661,687, Dec. 8.

Chang, Hson M.: *See*— Bridger, Grover L., and Chang.

Chapman, James, Sr., and R. N. Reynolds, Sr., Atlanta, Ga. Shuttle lock for looms. 2,661,775, Dec. 8.

Chase-Shawmut Company, The, assignee: *See*— Kozacka, Frederick J.

Chemical Construction Corporation, assignee: *See*— Roberts, Edward S., McGauley, and Schaufelberger.

Chemstrand Corporation, The, assignee: *See*— Helle, Robert H.

Chicago Coin Machine Co., assignee: *See*— Koci, Jerry C.

Chiksan Company, assignee: *See*— Parmesan, Daniel J.

Chloride Electrical Storage Company Limited, The, assignee: *See*— Coates, Archibald.

Christain, Donald C., and R. M. Reed, Louisville, Ky., assignors, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill. Catalyst composition. 2,662,063, Dec. 8.

Christeck, Bruno J., and L. Z. Plebank, Chicago, Ill. Dispensing bottle top. 2,661,867, Dec. 8.

Christoff, Chris A., assignor to Clary Multiplier Corporation, San Gabriel, Calif. Strip rewinding means. 2,661,910, Dec. 8.

Chromy, Benjamin J., Washington, D. C., and P. H. Allen, Orinda, Calif. Electronic calculator. 2,661,899, Dec. 8.

Chrysler Corporation, assignee: *See*— Nims, Paul T., and Jacob.

Ciba Pharmaceutical Products, Incorporated, assignee: *See*— Huebner, Charles F., Mizzoni, Mull, and Scholz.

Clark, Laurence E., Jr., and C. F. MacLagan, Bainbridge, assignors to The Borden Company, New York, N. Y. Adhesive composition comprising a urea-aldehyde resin and tetrahydrafurfuryl alcohol. 2,662,066, Dec. 8.

Clary Multiplier Corporation, assignee: *See*— Christoff, Chris A.

Clayton Dewandre Company Limited, assignee: *See*— Edge, Stanley H.

Cleaners Hanger Company, assignee: *See*— Simmons, Harry M. and R. M.

Clegg, Douglas, and L. E. Jenssen, Calistoga, Calif.; said Jenssen assignor to said Clegg. Telemetering mechanism for chart recorders. 2,662,212, Dec. 8.

Clement, Ernest C., assignor to Mars, Incorporated, Chicago, Ill. Candy slicing machine. 2,661,707, Dec. 8.

Clements, MacMillan, Bethel, Conn. Thermally insulated building structures, including panels. 2,662,043, Dec. 8.

Clevenger, Oliver L., and W. A. McElhannon, Baytown, and W. W. Jones, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Flare stack, pilot burner, and pilot igniter. 2,661,798, Dec. 8.

Cloverleaf-Freeland Corporation, assignee: *See*— Burlein, Lester F.

Clyde, John A., Ellwood City, Pa., assignor to United States Steel Corporation. Collapsible boring tool. 2,661,639, Dec. 8.

Coates, Archibald, assignor to The Chloride Electrical Storage Company Limited, Manchester, England. Filling and venting means for electric batteries. 2,662,108, Dec. 8.

Cochran, William C. *See*— Mason, Ralph B., and Cochran.

Cochran, William J., Cheyenne, Wyo. Windshield wiper deicer. 2,662,154, Dec. 8.

Cochrane, Richard M.: *See*— Tapp, Harry F., and Cochrane.

Cock, Ludolf J., B. G. Dammers, W. W. Boelens, and J. R. de Miranda, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Superheterodyne receiving arrangement for use at ultrashort waves. 2,662,171, Dec. 8.

Collier, Henry O. J.: *See*— Eastland, Cyril J., Taylor, and Collier.

Commonwealth Engineering Company of Ohio, The, assignee: *See*— Toulmin, Harry A., Jr.

Consolidated Car-Heating Company, Inc., assignee: *See*— Hamilton, Wallace.

Consolidated Engineering Corporation, assignee: *See*— Berry, Clifford E. Robinson, Leland P., Washburn, and Hirschberg.

Cook, Irving L., Suring, Wis. Nonanatomic posterior denture teeth. 2,661,536, Dec. 8.

Coplen, George H., Cripple Creek, Colo. Can opener. 2,661,528, Dec. 8.

Corley, Gale C., Valparaiso, Ind. Roll up map case. 2,661,570, Dec. 8.

Corsillo, Emil A., Los Angeles, Calif. Wig construction. 2,661,749, Dec. 8.

Cossor, A. C., Limited, assignee: *See*— Levell, Derek A.

Cousin, Maurice, Paris, France. Internal-combustion engine. 2,661,727, Dec. 8.

Crane Co., assignee: *See*— Hansen, George E.

Crawford, Alfred, and M. Antonevich, assignors to The Crawford Manufacturing Company, Inc., New Brunswick, N. J. Needle saver stop motion. 2,661,615, Dec. 8.

Crawford, Herman E., Kernersville, N. C. Machine for knitting shaggy fabrics. 2,661,612, Dec. 8.

Crawford Manufacturing Company, Inc., The, assignee: *See*— Crawford, Alfred, and Antonevich.

Crisci, Harry, assignee: *See*— Morgan, Joseph P.

Crompton, George, Jr., Framingham Centre, assignor to Norton Company, Worcester, Mass. Hydraulic thrust bearing and reciprocator for shafts. 2,661,580, Dec. 8.

Cromwell, Harold J.: *See*— Schneider, Paul L., Cromwell, and Taylor.

Crookston, Robert R., and S. C. Brown, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Device for cleaning pipe threads. 2,661,494, Dec. 8.

Crowe, John T., Chicago, Ill., and C. E. Seaberg, Gardena, Calif. Accelerator controlled vehicle warning light. 2,662,132, Dec. 8.

Crown Zellerbach Corporation, assignee: *See*— King, Glengarry D.

Crumrine, Kenneth C., Tulsa, Okla., and R. P. Mazzagatti, Houston, Tex., assignors to The Texas Company, New York, N. Y. Voltage stabilizing amplifier system for neutron detectors. 2,662,188, Dec. 8.

Crystal X Corp., assignee: *See*— Okie, John A.

Cummins Engine Company, Inc., assignee: *See*— Reiners, Neville M.

Curtis Lighting, Inc., assignee: *See*— Wilt, Melvin C.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Cycloalkyl esters of basically substituted isocyclylcarbamic acids and their salts. 2,662,092, Dec 8.

Dairy Equipment Company, assignee: *See*— Markley, Richard.

Dale, Elmer O., Waukesha, Wis., assignor, by mesne assignments, to Gar Wood Industries, Incorporated. Hydraulic power unit and internal-combustion engine with clutch drive therebetween operated from the oil circuit of such engines. 2,661,696, Dec. 8.

Dammers, Bernhardus G.: *See*— Cock, Ludolf J., Dammers, Boelens, and de Miranda.

Daniloff, Karl B., Seattle, Wash., assignor to Monsanto Chemical Company, St. Louis, Mo. Stabilized lactic casein solution. 2,662,026, Dec. 8.

D'Assis Fonseca, Evelyn C. M., assignor to The Bristol Aeroplane Company Limited, Bristol, England. Holding means for projectile fins. 2,661,689, Dec. 8.

Daugherty, Robert A.: *See*— Magor, Stuart F., and Daugherty.

Daust, Herbert, St. Louis, Mo. Insulated handbag. 2,661,785, Dec. 8.

Davenport Machine Tool Co., Inc., assignee: *See*— Brinkman, Earl W.

Davies, Kenneth R., Radbourne, near Derby, and K. Herbstritt, Littleover, Derby, assignors to Rolls-Royce Limited, Derby, England. Hydraulic control means for engine fuel systems. 2,661,796, Dec. 8.

Davis, Rachel D., Kinston, N. C. Speculum. 2,661,735, Dec. 8.

Day, Emily N., Portland, Oreg. Breast pad holding garment. 2,661,470, Dec. 8.

Dayton Rubber Company, The, assignee: *See*— Lomazzo, Edmund J., and Maquat.

Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. Rack for refrigerator car floors and similar purposes. 2,661,705, Dec. 8.

Deering Milliken Research Trust, assignee: *See*— Anderson, Wilmer C. Brink, Robert M.

De Jager, Frank: *See*— Schouten, Jan F., and de Jager. Schouten, Jan F., de Jager, and Greefkes.

De Koning, Edwin W., Portland, Oreg. Trimmer saw. 2,661,778, Dec. 8.

De Miranda, Jacobus R.: *See*— Cock, Ludolf J., Dammers, Boelens, and de Miranda.

Denison Engineering Company, The, assignee: *See*— Adams, Cecil E. Mills, Howard V. Renick, Wendell E.

De Novers, Emil J.: *See*— Minneci, Salvatore, and De Novers.

Detch, Lewis, Pittsburgh, Pa. Cartridge fuse. 2,662,141, Dec. 8.

Deverall, Charles N., Buffalo, assignor to Niagara Blower Company, New York, N. Y. Evaporative cooler for condensing hot compressed gas. 2,661,933, Dec. 8.

De Vilbiss, John A., St. Marys, Kans. Evaporative cooler. 2,661,936, Dec. 8.

De Yo, Arthur C., Shaler Township, Allegheny County, assignor to Multi-Ring Brake Drum Corporation, Allison Park, Pa. Laminated brake drum. 2,661,820, Dec. 8.

Dickinson, Norman L., Basking Ridge, assignor to The M. W. Kellogg Company, Jersey City, N. J. Gasification of powdered caking type coal. 2,662,007, Dec. 8.

Diels, Albert F. M., Balen-Wezel, assignor to Poudreries Reunies de Belgique S. A., Bruxelles, Belgium. Land mine. 2,661,690, Dec. 8.

Diels, Albert F. M., Balen-Wezel, assignor to Poudreries Reunies de Belgique S. A., Brussels, Belgium. Percussion device for land mines. 2,661,693, Dec. 8.

Dietz, Karl, Kronberg, Taunus, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Bruning, Frankfurt am Main Hochst, Germany. Self-hardening water-glass compositions. 2,662,022, Dec. 8.

Dillone, Rocco, Red Bank, N. J. Speaker protective device for drive-in theaters. 2,661,505, Dec. 8.

Ditto, Incorporated, assignee: *See*— Levin, Carl A., and Quirk.

Dolezal, Frank O., San Francisco, Calif. Heat resistant radiator cap cover attachment. 2,661,859, Dec. 8.

Doll, M. Geneviere, Detroit, Mich. Maternity skirt. 2,661,468, Dec. 8.

Donaldson, Robert R., Jr., Forest Hills, assignor to Hagan Corporation, Pittsburgh, Pa. Pressure differential responsive device. 2,661,754, Dec. 8.

Dorfman, Nathaniel G. A., New York, N. Y. Electronic code-typewriter system. 2,662,112, Dec. 8.

Dougherty, Patrick F., Chester Heights, and L. G. Magill, Parkland, assignors to Sun Oil Company, Philadelphia, Pa. Cleaning refining equipment. 2,662,041, Dec. 8.

Dougherty, Patrick F., Chester Heights, and L. G. Magill, Parkland, assignors to Sun Oil Company, Philadelphia, Pa. Cleaning refining equipment. 2,662,042, Dec. 8.

Dreyfus, Ludwig, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Electric eddy current furnace. 2,662,161, Dec. 8.

Duke, James B., Medulla, and W. M. Houston, Lakeland, Fla., assignors to Attapulgus Minerals & Chemicals Corporation. Concentration of phosphate ores. 2,661,842, Dec. 8.

Dulligan, John H., South Gate, Calif. Hole gauge. 2,661,540, Dec. 8.

Dulligan, John H., South Gate, Calif. Helically-coiled hole gauge. 2,661,541, Dec. 8.

Duntley, Seibert Q., Cambridge, Mass., assignor to General Electric Company. Measuring visibility. 2,661,650, Dec. 8.

Du Pont, E. I., de Nemours and Company, assignee: *See*— Berry, Kenneth L. Billica, Harry R. Brooks, Robert A. Hermann, Edward C. Howard, Edward G., Jr. MacDonald, Robert N. Pike, Ralph E. Umberger, Jacob Q. Whitman, Gerald M.

Durez Plastics & Chemicals, Inc., assignee: *See*—
Less, Frank W., Roeck, and Searer.

Dyson, James, Aldermaston, England, assignor to Associated Electrical Industries Limited. Optical system for increasing the working distances of microscope objectives. 2,661,658, Dec. 8.

Eastland, Cyril J., E. P. Taylor, and H. O. J. Collier, Bethnal Green, London, assignors to Allen & Hanburys Limited, London, England. Heterocyclic polymethylene-bis-quaternary ammonium salts and preparing same. 2,662,083, Dec. 8.

Eastwood, Sylvander C., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Gas manufacture. 2,662,006, Dec. 8.

Ebert, Max E.: *See*—
Schoenster, Peter J., and Ebert.

Eckles, Howard W., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo. Protected switch. 2,662,143, Dec. 8.

Edelen, James L., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Attaching thread for glass bowls. 2,661,966, Dec. 8.

Edge, Stanley H., assignor to Clayton Dewandre Company Limited, Lincoln, England. Hydraulic control device. 2,661,597, Dec. 8.

Edwards, Ray C., Glen Rock, N. J. Method and apparatus for making finned tubes. 2,661,525, Dec. 8.

Eidal, Roy M., Albuquerque, N. Mex. Rod bending machine. 2,661,787, Dec. 8.

Elmco Corporation, The, assignee: *See*—
Hendrickson, Donald E., Royle, and Schwartz.

Electraulic Presses Limited, assignee: *See*—
Towler, John M., and F. H.

Electric & Musical Industries Limited, assignee: *See*—
Vanderlyn, Philip B.

Electro-Hydraulics Limited, assignee: *See*—
Bryan, George W.

Elöd, Egon, Badenweiler, Germany. Producing dicyandiamide-urea-formaldehyde impregnating agents. 2,662,071, Dec. 8.

Emerson Electric Manufacturing Company, The, assignee: *See*—
Eckles, Howard W.

Emsig Manufacturing Company, assignee: *See*—
Troll, William A.

Endsley, William H., Sulphur Springs, Tex. Mud gun. 2,661,983, Dec. 8.

Enghauser, Winford L., Cincinnati, Ohio. Automatic gate operating mechanism. 2,661,556, Dec. 8.

English Electric Company Limited, The, assignee: *See*—
Hughes, John O. P., and Wolff.

Erickson, Edwin H.: *See*—
Rosen, Emanuel P., and Erickson.

Esslinger, Paul W., assignor to Automatic Benders, Inc., Nampa, Idaho. Pipe bending and straightening machine. 2,661,788, Dec. 8.

Ethyl Corporation, assignee: *See*—
Baldwin, Franklin H.
Governale, Luke J., Horn, and O'Connell.
Hill, Eugene F.

Eureka Williams Corporation, assignee: *See*—
Hammell, Kemper M.

Evans, George P., Hellam, Pa. Anchor davit. 2,661,711, Dec. 8.

Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Gaseous fuel production. 2,662,005, Dec. 8.

Evans, Martin E., Brooklyn, N. Y. Motion-picture apparatus and method. 2,661,652, Dec. 8.

Extruded Plastics, Inc., assignee: *See*—
Slaughter, Charles E.

Fairbanks, Jerry B., Los Angeles, Calif. Tripod mechanism. 2,661,672, Dec. 8.

Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning, assignee: *See*—
Dietz, Karl.

Farr Company, assignee: *See*—
Farr, Richard S., and Woodworth.

Farr, Richard S., Los Angeles, and W. A. Woodworth, San Francisco, assignors to Farr Company, Los Angeles, Calif. Apparatus for maintaining predetermined atmospheric conditions in compartments. 2,661,676, Dec. 8.

Faulkner, Emmett, assignee: *See*—
Wolford, Charles E.

Federal Electric Products Company, assignee: *See*—
Ballou, Richard P.

Fellows Gear Shaper Company, The, assignee: *See*—
Bean, Arthur I.

Fenstermaker, Lloyd H., Pittsburgh, Pa., assignor to United States Steel Corporation. Hand stamp for marking metal slabs or the like. 2,661,681, Dec. 8.

Fenton, Walter M., assignor, by mesne assignments, to Lithium Corporation of America, Inc., Minneapolis, Minn. Mill addition agent for enamel slips. 2,662,028, Dec. 8.

Ferguson, Harry, Limited, assignee: *See*—
Sherwen, Theo.

Ferrari, Andrés, Jr., Unfondale, assignor to Technicon Chemical Company, Inc., New York, N. Y. Mounting medium for microscope slides and securing the cover glasses therefor. 2,661,659, Dec. 8.

Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Reduction of noise and shock in power pumps. 2,661,695, Dec. 8.

Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Axial type hydrodynamic machine. 2,661,701, Dec. 8.

Field, Philip M., New York, N. Y., assignor to Charles Beseler Company, Newark, N. J. Copy retention and housing ventilating means for opaque projector apparatus. 2,661,655, Dec. 8.

Fielding, Sterling A., Portsmouth, Va. Hydraulic pitch control device for propellers. 2,661,807, Dec. 8.

Findley, Jack R., Bellflower, Calif. Concrete form. 2,661,517, Dec. 8.

Fiori, Irving, assignor to Art Specialty Co., Chicago, Ill. Lamp housing with grommeted lead-in holding means. 2,662,110, Dec. 8.

Fischer & Porter Company, assignee: *See*—
Brewer, Nathaniel.

Fisher, Alec, Lynn, and J. K. Newell, Swampscott, Mass., assignors to General Electric Company. Dynamoelectric machine. 2,662,195, Dec. 8.

Flanagan, James R., Westville Grove, N. J., assignor to Stephen F. Whitman & Son, Inc., Philadelphia, Pa. Means for handling candies. 2,661,706, Dec. 8.

Fletcher, H. E., Company, assignee: *See*—
Aspelin, Frans E.

Flexible Metals Corporation, assignee: *See*—
Wilbur, Lawrence S.

Floyd, Don E., Robbinsdale, Minn., assignor to General Mills, Inc. Organic solvent gels. 2,662,068, Dec. 8.

Fluid Systems, Incorporated, assignee: *See*—
Lines, Harold A.

Folmer, Frank F., Detroit, Mich. Pneumatically operated welder head construction. 2,661,599, Dec. 8.

Folse, Raphael J., New Orleans La. Weather strip mounting for closures. 2,661,510, Dec. 8.

Fontaine, John P. K., Birmingham, Ala. Pivotally mounted fifth wheel plate. 2,661,960, Dec. 8.

Forssell, Harry, Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Phase compensating means for alernating current lines. 2,662,210, Dec. 8.

Foster, Edwin E., Austin, Tex. Foldable ironing board and iron support. 2,661,553, Dec. 8.

Fowler, Frank C.: *See*—
Waddill, Paul M., and Fowler.

Fowler, William E., and J. A. Thompson, Pittsburgh, Pa. Curtain rod. 2,661,850, Dec. 8.

Foxboro Company, The, assignee: *See*—
Bowditch, Hoel L.

Francisco, Marshall E., San Jose, Calif. Packing apparatus. 2,661,882, Dec. 8.

Francisco, Marshall E., San Jose, Calif. Automatic packing apparatus. 2,661,883, Dec. 8.

Franck, Kurt, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Yard and street lighting system and luminaires for use therein. 2,662,165, Dec. 8.

Frantz Manufacturing Co., assignee: *See*—
Wolf, Cecil R.

Frederick, Joseph E.: *See*—
Sulich, John, Jr., and Frederick.

Freeman, Antony P., San Francisco, Calif. Teapot set. 2,661,678, Dec. 8.

Freiberger, Herman: *See*—
Gamber, Eugene, and Freiberger.

French, James W., assignor to Barr & Stroud, Limited, Glasgow, Scotland. Binocular observation instrument. 2,661,657, Dec. 8.

Fresh Frozen Foods Ltd., assignee: *See*—
Burney, Charles D.

Fribance, Austin E., Rochester, and T. F. Jarvis, Warsaw, N. Y., assignors to Watson Elevator Company, Inc. Elevator control system. 2,662,204, Dec. 8.

Frick, Edward J., Fairview Park, assignor to Air Controls, Inc., Cleveland, Ohio. Power driven air circulating fan. 2,661,895, Dec. 8.

Fried. Krupp Lokomotivfabrik, assignee: *See*—
Lammerz, Ernst, and Herrmann.

Friedheim, Ernst A. H., New York, N. Y. Organometallic compounds. 2,662,079, Dec. 8.

Friedman, Philip, New York, N. Y. Man's undergarment. 2,661,738, Dec. 8.

Friedrich, Valentine, Jr., assignor to The Beckett Paper Company, Hamilton, Ohio. Process and apparatus for avoiding curl in machine-made paper. 2,661,669, Dec. 8.

Fruit Products Corporation, assignee: *See*—
Schenk, Tamis C.

Fuente, Benjamin: *See*—
O'Connor, Bernard E., and Fuente.

Funke, Emil: *See*—
Peddinghaus, Werner, and Funke.

Fuqua, Mack C.: *See*—
Gilcrease, John R., and Fuqua.

Fyke, Russell W., Sceptre, assignor to S. J. Safian, Regina, Saskatchewan, Canada. One-way disk harrow or plow. 2,661,675, Dec. 8.

Gagnebin, Albert P., Red Bank, N. J., and L. L. Seigle, Dorchester, Mass., assignors to The International Nickel Company, Inc., New York, N. Y. Abrasion and corrosion resistant white cast iron. 2,662,011, Dec. 8.

Gamber, Eugene, Chicago, Ill., and H. Freiberger, Glen Rock, assignors of one-third to said Gamber and two-thirds to Medical Fabrics Co., Inc., Paterson, N. J. Pressure bandage. 2,661,776, Dec. 8.

Gartner, Stanley J., Emporium, Pa., assignor to Sylvania Electric Products, Inc. Machine for holding and sealing coaxially supported parts. 2,661,576, Dec. 8.

Gaucher, Leon P., Tuckahoe, assignor to The Texas Company, New York, N. Y. Preparing synthesis gas at elevated pressures. 2,662,004, Dec. 8.

Gauthier, Bernard: *See*—
Poulenc, Pierre, Gauthier, and Kirchhoffer.

Geiger, Edward F.: *See*—
Johnson, Reynold B., and Geiger.

General Aniline & Film Corporation, assignee: *See*—
Sulich, John, Jr., and Frederick.

General Electric Company, assignee: *See*—
Ahles, Robert D.
Duntley, Seibert Q.
Fisher, Alec, and Newell.
Mathes, Kenneth N., and Rasmussen.
McNairy, Jacob W.
Minneci, Salvatore, and De Noyers.
Seely, Richard E.
Smith, Sidney K., Jr.
Vallorani, Ben J.
Vallorani, Ben J., and McConnell.
Young, James F.

General Fireproofing Company, The, assignee: *See*—
Wilmer, Rudolph H.

General Mills, Inc., assignee: *See*—
Floyd, Don E.
Graham, Maurice H.
Van Guilder, Walter.

General Motors Corporation, assignee: *See*—
Baker, Marshall W.
Bales, Max G.
Brewer, Relfe N.
Brown, William E.
Houck, Hooper J., and Morgan.
Schneider, Paul L., Cromwell, and Taylor.
Short, Brooks H.

General Precision Laboratory Incorporated, assignee: *See*—
Goldbach, Frank P.
Greenwood, Ivan A., Jr., and Gordon.

General Railway Signal Company, assignee: *See*—
Lindner, John C.

Gerhart, William A., Harbor Springs, Mich. Oil filter construction. 2,661,848, Dec. 8.

Gesellschaft für Linde's Eismaschinen A.-G., assignee: *See*—
Kahle, Heinrich.

Geuder, Paeschke & Frey Co., assignee: *See*—
Siczkiewicz, Joseph, Jr., and Voigt.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Logan, Joseph A., and Lavallee.
Tapp, Harry F., and Cochrane.

Gilbertson, Grace R., Rochester, Wis. Maternity skirt. 2,661,477, Dec. 8.

Gilcrease, John R., and M. C. Fuqua, Baton Rouge, La., assignors to Standard Oil Development Company. Preparation of latex stabilizer dispersions. 2,662,061, Dec. 8.

Gillette Company, The, assignee: *See*—
Shnitzler, Meyer J.

Gilmore, Forrest E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Separating a gaseous mixture. 2,661,812, Dec. 8.

Gochenour, Benjamin F., Woodstock, Va. Implement holding device. 2,661,920, Dec. 8.

Goetz, Eric M., Manchester, N. H. Stitched case. 2,661,823, Dec. 8.

Goldbach, Frank P., Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated. Navigation counter. 2,661,903, Dec. 8.

Goodfield, Elsie, Dover, N. J. Toilet closet. 2,661,481, Dec. 8.

Goodgame, Jesse B., assignor to Precision Gear and Machine Company, Charlotte, N. C. Sword with removable protector rod brackets. 2,661,772, Dec. 8.

Goodman Manufacturing Company, assignee: *See*—
Andershock, Chester E.
Bergmann, Ernst R.
Buckeridge, Roger M.
McCann, Keith, and Lo Presti.
Slomer, Joseph J.

Gordon, Alexander, Jr.: *See*—
Greenwood, Ivan A., Jr., and Gordon.

Gordon, Ray, Struthers, Ohio. Furnace charging apparatus. 2,661,853, Dec. 8.

Governale, Luke J., A. B. Horn, Jr., and H. E. O'Connell, Baton Rouge, La., assignors to Ethyl Corporation, New York, N. Y. Two-stage photochemical reactor. 2,662,186, Dec. 8.

Graflex, Inc., assignee: *See*—
Jacobson, Irving, Brundage, and Moore.

Graham, Maurice H., Minneapolis, Minn., assignor to General Mills, Inc. Pressure cooker relief device. 2,661,864, Dec. 8.

Graham, Ollie W., assignor to Instruments, Inc., Tulsa, Okla. Method and apparatus for controlling a dredging operation. 2,661,550, Dec. 8.

Grant, Charles R. A., London, England, assignor of one-half to Pressure Gauges Limited, Dublin, Ireland. Protective connector for pressure gauges. 2,661,625, Dec. 8.

Greefkes, Johannes A.: *See*—
Schouten, Jan. F., De Jager, and Greefkes.

Green, Walter F., assignor to The Timken Roller Bearing Company, Canton, Ohio. Quick return cam follower for machine tools. 2,661,637, Dec. 8.

Greenwood, Ivan A., Jr., Pleasantville, and A. Gordon, Jr., Astoria, N. Y., assignors to General Precision Laboratory Incorporated. Ultrasonic gauge. 2,661,714, Dec. 8.

Griffin, William C., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Improved shortening and cake composition. 2,662,015, Dec. 8.

Griscom Russell Company, The, assignee: *See*—
Bruegger, Ernest.

Griset, Ernest J., Jr., and R. T. Lynch, Asheville, assignors to American Enka Corporation, Enka, N. C. Thread collector. 2,661,588, Dec. 8.

Grishaber, Ralph V., assignor to Paper Patents Company, Neenah, Wis. Package cushioning and sealing means. 2,661,835, Dec. 8.

Grove Regulator Company, assignee: *See*—
Bryant, Austin U.

Gruen, Ernest J., Carteret, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Pulp storage tank current control. 2,661,668, Dec. 8.

Gruen Watch Co., The, assignee: *See*—
Thiébaud, Henri.

Guarnieri, James P., Inc., assignee: *See*—
Blenkle, Herbert A.

Gulf Research & Development Company, assignee: *See*—
McCarthy, Paul R.
Topanelian, Edward, Jr.

Günther, Ulrich, Domat (Ems), assignor to Inventa A. G., für Forschung und Patentverwertung, Zurich, Switzerland. Method and device for welding wires on metal bodies. 2,662,153, Dec. 8.

Gursky, Meyer, New York, assignor to Automatic Bedding Corporation, Brooklyn, N. Y. Sofa bed. 2,661,485, Dec. 8.

Guy, Frederick M., and E. J. Herbenar, Detroit, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Shaft hanger construction. 2,661,985, Dec. 8.

Hadidian, Zareh, Worcester, Mass., and N. W. Pirie, Harpenden, England, assignors to G. D. Searle & Co., Skokie, Ill. Hyaluronidase inhibitors and the production thereof. 2,662,076, Dec. 8.

Hadidian, Zareh, Needham, Mass., and N. W. Pirie Harpenden, England, assignors to G. D. Searle & Co., Chicago, Ill. Lower alkanoic acid esters of hyaluronic acid and the production thereof. 2,662,077, Dec. 8.

Hadidian, Zareh, Needham, Mass., and N. W. Pirie Harpenden, England, assignors to G. D. Searle & Co., Chicago, Ill. Hyaluronic acid nitrates and the production thereof. 2,662,078, Dec. 8.

Haessler, Walter M., Chatham, assignor to C-O-Two Fire Equipment Company, Newark, N. J. Fire extinguisher discharge head. 2,661,804, Dec. 8.

Hagan Corporation, assignee: *See*—
Donaldson, Robert R., Jr.

Hall, Rolland G., Yalesville, assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Automatic machine for milling the ends of handles or the like. 2,661,662, Dec. 8.

Hamilton, John, Oakford, and A. A. Meder, Jr., Pennllyn, assignors to Proctor & Schwartz, Inc., Philadelphia, Pa. Shrinkage method for knitted fabrics. 2,661,520, Dec. 8.

Hamilton, Karl M., Chicago, Ill. Railway car truck bolster stabilizer. 2,661,703, Dec. 8.

Hamilton, Karl M., Chicago, Ill. Bolster supporting spring group and stabilizing means. 2,661,944, Dec. 8.

Hamilton, Wallace, assignor to Consolidated Car-Heating Company, Inc., Albany, N. Y. Electric door operator. 2,661,945, Dec. 8.

Hammell, Kemper M., Bloomington, Ill., assignor to Eureka Williams Corporation, Detroit, Mich. Garbage disposal apparatus. 2,661,909, Dec. 8.

Hansen, Charles W., assignor to J. I. Case Company, Racine, Wis. Field forage harvester. 2,661,585, Dec. 8.

Hansen, George E., assignor to Crane Co., Chicago, Ill. Backflow preventer for water hydrants. 2,661,759, Dec. 8.

Hanser, William F., assignor to National Oats Company, Cedar Rapids, Iowa. Tear-cord applying machine and method. 2,661,582, Dec. 8.

Hanson, Thomas A., Woodstock, Ontario, Canada. Automatic pressure changer for gas regulators. 2,661,577, Dec. 8.

Hanze, Arthur R., assignor to The Upjohn Company, Kalamazoo, Mich. Purification of synthetic folic acid. 2,662,081, Dec. 8.

Harris, Larry M., San Jose, Calif. Gate mechanism for bottle dispensing containers. 2,661,992, Dec. 8.

Harris Research Laboratories, assignee: *See*—
Brown, Alfred E., Sookne, and Minor.

Hart, Charles W., Alhambra, Calif. Gas regulator. 2,661,601, Dec. 8.

Hartford National Bank and Trust Company, trustee, assignee : *See*—
Blok, Lourens.
Boelens, Willem W.
Boosman, Herman B. R.
Boterweg, Dirk, Breimer, and Robeer.
Buchner, Robert B.
Cock, Ludolf J., Dammers, Boelens, and de Miranda.
Hepp, Gerard.
Holzer, Wolfgang, and Marko.
Hugenholtz, Eduard H.
Jonker, Johan L. H.
Klinkhamer, Jacob F.
Kröger, Ferdinand A.
Le Comte, Corstiaan.
Rinia, Herre.
Schouten, Jan F., and de Jager.
Schouten, Jan F., de Jager, and Greefkes.
Severs, Jan.
Six, Willem, Jonker, and Van Gelder.
Staal, Cornelis J. H. A.
Van de Wiel, Alfred.
Van Doorn, Willem.
Van Hofweegen, Johannes M.
Van Overbeek, Adrianus J. W. M.
Van Wageningen, Johan H., and Schreur.
Van Weijnsbergen, Charles L.
Zwikker, Cornelis.

Hauduroy, Paul, Paris, France. Multiple container. 2,661,742, Dec. 8.

Hauser, Richard, assignee : *See*—
Mullins, James H.

Haythornthwaite, James J., Acerington, assignor to T. M. M. (Research) Limited, Hemshore, Rossendale, England. Doffing mechanism for ring spinning, doubling and twisting machines. 2,661,589, Dec. 8.

Heath, William B., New Bedford, assignor to American Optical Company, Southbridge, Mass. Device for heating and shaping or altering the parts of an ophthalmic mounting. 2,661,645, Dec. 8.

Heintz, James C., & Company, Inc., assignee : *See*—
Holmes, Jack.

Heintz Manufacturing Company, assignee : *See*—
Trantvetter, George.

Heizer, Edward J., Mountain Lakes, and J. Warwick, Livingston Township, Essex County, assignors to Specialties Development Corporation, Belleville, N. J. Damping means for yarn tension compensating devices. 2,661,913, Dec. 8.

Helle, Robert H., Media, assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala. Apparatus for the fluid treatment of fibers and the like. 2,661,619, Dec. 8.

Hendrickson, Donald E., E. B. Royle, and D. M. Schwartz, assignors to The Eimco Corporation, Salt Lake City, Utah. Clutch. 2,661,826, Dec. 8.

Hennessey, Walter F., Jr., and G. J. Swanson, Sidney, assignors to Bendix Aviation Corporation, New York, N. Y. Electrical connector having a grommet and means to axially and radially compress the same. 2,662,219, Dec. 8.

Henry, Elliott A., Bridgeport, assignor to Sperry Products, Inc., Danbury, Conn. Oscillator cancellation frequency converter. 2,662,172, Dec. 8.

Henson, Robert L., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Seismographic amplifier mixing circuits. 2,662,126, Dec. 8.

Hepp, Gerard, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit-arrangement for receiving and detecting frequency modulated oscillations. 2,662,179, Dec 8.

Herbenar, Edward J. : *See*—
Guy, Frederick M., and Herbenar.

Herbenar, Edward J., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Resiliently mounted shaft hanger. 2,661,986, Dec. 8.

Herbenar, Edward J., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Resiliently mounted shaft hanger assembly. 2,661,987, Dec. 8.

Herbstritt, Karl : *See*—
Davies, Kenneth R., and Herbstritt.

Hermac International, Ltd., assignee : *See*—
Puckman, Hyman.

Hermann, Edward C., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. 2-thiopheneserines and their manufacture. 2,662,087, Dec. 8.

Herrmann, Heinrich : *See*—
Lammerz, Ernst, and Herrmann.

Herzog, Gerhard, and B. D. Lee, Houston, Tex., assignors to The Texas Company, New York, N. Y. Electrical analogue. 2,661,897, Dec. 8.

Heth, Sherman C. : *See*—
Krause, Norman R., and Heth.

Heth, Sherman C., assignor to J. I. Case Company, Racine, Wis. Self-cleaning air precleaner. 2,661,810, Dec. 8.

Hewitt, George W., and J. S. Lagarias, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic precipitator. 2,661,809, Dec. 8.

Hickey, George M., Paoli, assignor to J. Bishop & Co. Platinum Works, Malvern, Pa. Disposable syringe. 2,661,740, Dec. 8.

Hickey, James, Portland, Oreg. Hem sewing attachment for sewing machines. 2,661,710, Dec. 8.

Hicks, Boyd F. : *See*—
Hicks, Sylvanous B. and B. F.

Hicks, Sylvanous B. and B. F., Stockton, Calif. Welt brace-laying tool. 2,661,487, Dec. 8.

Hill, Eugene F., Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y. Purification of sodium alcoholates. 2,662,100, Dec. 8.

Hindmarch, Thomas, Chesham, England. Power transmission gear. 2,661,628, Dec. 8.

Hirschberg, Walter J. : *See*—
Robinson, Leland P., Washburn, and Hirschberg.

Hitachi Limited, assignee : *See*—
Kuwayama, Masatoshi.

Hitchcock, Edgar J., New Philadelphia, Ohio. Self-adjusting motor mounting for vertically adjusted saws. 2,661,777, Dec. 8.

Hofmann, Alfred, & Co., assignee : *See*—
Schoenster, Peter J., and Ebert.

Hogan, Joseph T. : *See*—
Arthur, Jett C., Jr., and Hogan.

Holderle, Frederick S., H. C. R., and N. F. W., Rochester, N. Y. Display case. 2,661,996, Dec. 8.

Holderle, Harvey C. R. : *See*—
Holderle, Frederick S., H. C. R., and N. F. W.

Holderle, Norbert F. W. : *See*—
Holderle, Frederick S., H. C. R., and N. F. W.

Holley, Earl, assignee : *See*—
Kittler, Milton J.

Holley, George M., assignee : *See*—
Kittler, Milton J.

Hollister, James F., Bergenfield, assignor to Bendix Aviation Corporation, Teterboro, N. J. Automatic steering system with displacement limiting means. 2,662,207, Dec. 8.

Holmes, Jack, assignor to James C. Heintz & Company, Inc., Cleveland, Ohio. Electronic relay control. 2,662,155, Dec. 8.

Holonbane Company, Inc., assignee : *See*—
Franck, Kurt.

Holtzman, Harris, and E. Simon, assignors to Ansbacher-Siegle Corporation, New York, N. Y. Preparation of chlorinated copper phthalocyanine. 2,662,085, Dec. 8.

Holzer, Wolfgang, and A. Marko, Vienna, Austria, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Arrangement for recording variations in the electrical resistance of the human body. 2,661,734, Dec. 8.

Hookham, George, assignor to John Miles & Partners (London) Limited, London, England. Goggle valve. 2,661,770, Dec. 8.

Hookham, George, assignor to John Miles & Partners (London) Limited, London, England. Goggle valve. 2,661,771, Dec. 8.

Hope, Henry, & Sons Limited, assignee : *See*—
Wilson, Edward M.

Hopkins, George R., Silver Spring, Md. Underwater drilling derrick. 2,661,600, Dec. 8.

Hoppe, Adolph F., Cedar Falls, Iowa. Gate opening and closing means. 2,661,555, Dec. 8.

Horn, Albert B., Jr. : *See*—
Governale, Luke J., Horn, and O'Connell.

Horn, Arthur P., Tampa, Fla. Manual power screw propelled lifeboat. 2,661,712, Dec. 8.

Houck, Hooper J., and R. M. Morgan, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Drilling and tanging machine. 2,661,593, Dec. 8.

Houdaille-Hershey Corporation, assignee : *See*—
O'Connor, Bernard E.
O'Connor, Bernard E., and Fuente.

Houston, Wesley M. : *See*—
Duke, James B., and Honston.

Howard, Edward G., Jr., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Haloalkyl substituted cycloheptatrien-1-ol-2-one ring compounds and their preparation. 2,662,098, Dec. 8.

Howe, Eugene E., Bound Brook, assignor to Merck & Co., Inc., Rahway, N. J. Parenteral amino and solution. 2,662,046, Dec. 8.

Howe, Herbert B., Chatham, N. J. Closure assembly for containers. 2,661,862, Dec. 8.

Howe, Herbert B., Chatham, N. J. Closure for containers. 2,661,863, Dec. 8.

Howell, Clarence G., Columbus, Ohio. Paint receptacle. 2,661,858, Dec. 8.

Huberman, Jules A. : *See*—
Lawrence, Gerald B., and Huberman.

Hubert, Joseph F., New York, N. Y. Storm window or screen mounting structure. 2,661,508, Dec. 8.

Hudson, H. D., Manufacturing Company, assignee : *See*—
Hudson, Robert C.

Hudson, Robert C., Glencoe, assignor to H. D. Hudson Manufacturing Company, Chicago, Ill. Sprayer. 2,661,982, Dec. 8.

Huebner, Charles F., Morristown, R. H. Mizzoni, Chester, R. P. Mull, East Orange, and C. R. Scholz assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Bis-(substituted phenyl)-thioureas. 2,662,096, Dec. 8.

Huenergardt, Alfred G., Beverly Hills, Calif. Multiple liquid dispensing container. 2,661,870, Dec. 8.

Huenergardt, Alfred G., Beverly Hills, Calif. Multiple liquid dispensing container. 2,661,871, Dec. 8.

Hugenholtz, Eduard H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Spectrum lock-in arrangement with automatic frequency control. 2,662,180, Dec. 8.

Hugenholtz, Eduard H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Automatic-frequency control apparatus for maintaining a predetermined-frequency difference between two waves. 2,662,181, Dec. 8.

Hugenholtz, Eduard H., Hilversum, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Frequency-modulated oscillator. 2,662,214, Dec. 8.

Hughes, Everett C., Cleveland Heights, and F. Veatch, assignors to The Standard Oil Company, Cleveland, Ohio. Preparing hydrolytic condensation product of dichlorodipropyl sulfide in aqueous hydrogen chloride and condensation product resulting therefrom. 2,662,086, Dec. 8.

Hughes, John O. P., and P. H. W. Wolff, Rugby, assignors to The English Electric Company Limited, London, England. Mounting of gas turbine units. 2,661,393, Dec. 8.

Hughes Tool Company, assignee : *See*—
Woods, Henry B.

Hulsart, Harold J., Tuscaloosa, Ala. Pit-type electric elevator. 2,661,816, Dec. 8.

Hulsart, Harold J., Tuscaloosa, Ala. Portable load lifter. 2,661,927, Dec. 8.

Hultquist, Victor J., Alcoa, Tenn. Wrench combined with punch and assembly tool. 2,661,644, Dec. 8.

Humphries, Hermon L. : *See*—
Adams, George D., Jr., and Humphries.

Husky Refrigeration Corporation, assignee : *See*—
Liggett, Edward R., and Calender.

Hyde, A. R., & Sons, Company, assignee : *See*—
Hyde, Ralph A., and Vietas.

Hyde, Ralph A., Cambridge, and F. Vietas, Redford, assignors to A. R. Hyde & Sons Company Cambridge, Mass. Football shoe with attachment for kicking. 2,661,547, Dec. 8.

Hydro Power, Inc., assignee : *See*—
Zoll, Carl M.

Ideal Capsules Limited, assignee : *See*—
Railton, Denis E., and White.

Ideal Tor Corporation, assignee : *See*—
Baggott, Edmund W.

Illinois Railway Equipment Company, assignee : *See*—
Johnson, Malcolm S.
Sweger, Theodore J.

Infantino, Francesco D., Camden, N. J. Hair cutter. 2,661,529, Dec. 8.

Ingersoll-Rand Company, assignee : *See*—
Le Valley, John.

Instruments, Inc., assignee : *See*—
Graham, Ollie W.

International Business Machines Corporation, assignee : *See*—
Beattie, Horace S.
Buhler, Eugen.
Johnson, Reynold B., and Geiger.
Keen, Harold H.
Luhn, Hans P.
Samuel, Arthur L.

International Clay Machinery Company, assignee : *See*—
McElroy, Roy H.

International Harvester Company, assignee : *See*—
Bechman, William O., and Palkovic.
Mott, Carl W.

International Nickel Company, Inc., The, assignee : *See*—
Gagnebin, Albert P., and Seigle.

International Umbrella Supply Co., Inc., assignee : *See*—
Kampf, Friedrich, and Uthemann.

Inventa A. G., für Forschung und Patentverwertung, assignee : *See*—
Günther, Ulrich.

Iowa State College Research Foundation, Inc., assignee : *See*—
Bridger, Grover L., and Chang.

Isham, Robert M., Okmulgee, Okla., assignor, by mesne assignments, to Southern Production Company, Inc., Shreveport, La. Dimethyl-phosphoric acid amide and its production. 2,662,095, Dec. 8.

Jackson, Clarence W., San Mateo, Calif. Double-faced golf club. 2,661,952, Dec. 8.

Jackson, Leonard H., Leamington Spa, England. Angler's fly box. 2,661,565, Dec. 8.

Jacob, Brent C., Jr. : *See*—
Nims, Paul T., and Jacob.

Jacobs, F. L., Co., assignee : *See*—
Lamb, Wade.

Jacobson, Irving, Hollywood, Calif., and C. F. Brundage, Macedon, and M. B. Moore, assignors to Graflex, Inc., Rochester, N. Y. Flashing unit assembly for photographic exposure equipment. 2,661,671, Dec. 8.

James, Ralph E., Jr., and R. B. Koch, assignors to The Polymer Corporation, Reading, Pa. Sizing nylon shapes. 2,661,499, Dec. 8.

Janssens, Anna, Chicago, Ill. Patch holding device. 2,661,878, Dec. 8.

Jarvis, Thomas F. : *See*—
Fribance, Austin E., and Jarvis.

Jensen, Clarence F., assignor to Webster Electric Company, Racine, Wis. Multiple stylus pickup. 2,662,121, Dec. 8.

Jenssen, Leif E. : *See*—
Clegg, Douglas, and Jenssen.

Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Electric motor for shavers and the like. 2,662,194, Dec. 8.

Jewell, Bernard W., assignor to The O. A. Sutton Corporation, Inc., Wichita, Kans. Air conditioning unit and apparatus for shipping. 2,661,836, Dec. 8.

Johnson, Axel, and A. S. Page, Portland, Oreg. Automatic emergency valve control for air hoses and the like. 2,661,764, Dec. 8.

Johnson & Johnson, assignee : *See*—
Reynolds, Frank J.

Johnson, Malcolm S., assignor to Illinois Railway Equipment Company, Chicago, Ill. Lading tie anchor. 2,661,704, Dec. 8.

Johnson, Malcolm S., and H. E. Ray, assignors to Central Railway Supply Company, Chicago, Ill. Pipe anchor means. 2,661,919, Dec. 8.

Johnson, Paul, Elyria, assignor to The Thew Shovel Company, Lorain, Ohio. Pressure fluid, follow-up type servomotor. 2,661,723, Dec. 8.

Johnson, Reynold B., and E. F. Geiger, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Master clock. 2,661,590, Dec. 8.

Johnson, Warren F. : *See*—
Burns, William A., and Johnson.

Johnston, David B., Port Chester, N. Y. Turntable drive. 2,661,627, Dec. 8.

Johnston, Mordica O., Glendale, Calif., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex. Combined shut-in and back circulation tool. 2,661,802, Dec. 8.

Johnston Testers, Inc., assignee : *See*—
Johnston, Mordica O.

Jones, Harold T., Vallejo, Calif. Quick-adjusting toggle wrench. 2,661,648, Dec. 8.

Jones, William W. : *See*—
Clevenger, Oliver L., McElhannon, and Jones.

Jonker, Johan L. H. : *See*—
Six, Willem, Jonker, and Van Gelder.

Jonker, Johan L. H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit arrangement comprising at least one switch for the control of at least one lead. 2,662,176, Dec. 8.

Jorgenson, Gerald A., York, Pa., assignor to Read Standard Corporation, New York, N. Y. Retractable chute for trough hoists. 2,661,855, Dec. 8.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Vacuum type leaf sweeper. 2,661,493, Dec. 8.

Joy Manufacturing Company, assignee : *See*—
Joy, Joseph F.
Rollins, Lester G.
Simmons, Leon E.

Jung, Jack, Vancouver, British Columbia, Canada. Foot operated toilet seat lifter. 2,661,484, Dec. 8.

Kahle, Heinrich, Pullach, near Munich, assignor to Gesellschaft für Linde's Eismaschinen A.-G., Hoellriegelskreuth, near Munich, Germany. Purification and separation of gas mixtures. 2,661,808, Dec. 8.

Kaiser Gypsum Company, Inc., assignee : *See*—
Riddell, Wallace C., and Kirk.

Kalleberg, Kornelius, Brooklyn, assignor to American Gravity Door Closer, Inc., Massapequa Park, N. Y. Double-acting gravity hinge. 2,661,495, Dec. 8.

Kamlet, Jonas, Easton, Conn., assignor to Mathieson Chemical Corporation. Chloralimine-N-sulfonates. 2,662,094, Dec. 8.

Kampf, Friedrich, and W. Uthemann, Leichlingen, Germany, assignors of one-third to International Umbrella Supply Co., Inc., New York, N. Y., one-third to Sun Products Company, Little Ferry, N. J., and one-third to Rosenkaimer & Cie., Leichlingen, Germany. Garden umbrella. 2,661,752, Dec. 8.

Kasper, Cass S., Grosse Pointe, Mich. Automatic part loading machine. 2,661,881, Dec. 8.

Kass, Peter, assignor to Atlas Powder Company, Wilmington, Del. Linear polyester resins. 2,662,069, Dec. 8.

Kass, Peter, Wilmington, and B. W. Lew, Arden, assignors to Atlas Powder Company, Wilmington, Del. Quick curing polyester resins. 2,662,070, Dec. 8.

Kautz, Karl, Massillon, Ohio. Apparatus for continuously filtering solids from gases. 2,661,811, Dec. 8.

Kavanagh, Arthur J., Stamford, Conn., assignor to American Optical Company, Southbridge, Mass. Optical system. 2,662,187, Dec. 8.

Keen, Harold H., Letchworth, England, assignor to International Business Machines Corporation, New York, N. Y. Card controlled printing machine. 2,661,685, Dec. 8.

Keene, Leslie L., Los Angeles County, Calif. Linoleum paste and making same. 2,662,025, Dec. 8.

Keiser, David H., Jr., West Lawn, Pa. Shearing action device. 2,661,534, Dec. 8.

Keller, Robert R., Manchester, N. H. Bonding press. 2,661,789, Dec. 8.

Kellogg, M. W., Company, The, assignee : *See*—
Dickinson, Norman L.
Moorman, Joseph W., and Kelly.

Kelly, Louis J.: *See*—
Moorman, Joseph W., and Kelly.

Keltz, Frank O., assignor to McFeely Brick Company, Latrobe, Pa. Furnace brick. 2,662,021, Dec. 8.

Kemp, Gordon C., Guelph, Ontario, Canada. Oil burner evaporator. 2,661,797, Dec. 8.

Kenan, Wilder, San Antonio, Tex. Truss bracing system for vertical stabilization of pipe line suspension bridges. 2,661,488, Dec. 8.

Kennedy, Joseph E., New York, N. Y. Lubricating means for tube mills. 2,661,813, Dec. 8.

Kennedy, Truman H., Elizabeth Township, Allegheny County, Pa., assignor to United States Steel Corporation. Apparatus for fluffing slag. 2,661,575, Dec. 8.

Kenney, Leo G., Chicago, Ill. Drying machine conveyer and transfer mechanism. 2,661,831, Dec. 8.

Keville, Jesse F.: *See*—
Vogt, Rudolph B., and Keville.

Kindseth, Harold V., assignor to Bemis Bro. Bag Co., Minneapolis, Minn. Hopper and power actuated discharge gate. 2,661,876, Dec. 8.

King, Glengarry D., Oakland, assignor to Crown Zellerbach Corporation, San Francisco, Calif. Bag and handle. 2,661,892, Dec. 8.

Kirchhoffer, Georges M. E. A.: *See*—
Poulenc, Pierre, Gauthier, and Kirchhoffer.

Kirk, George B.: *See*—
Riddell, Wallace C., and Kirk.

Kittler, Milton J., Detroit, Mich., assignor to G. M. and E. Holley. Concentric carburetor. 2,661,937, Dec. 8.

Klein, Benjamin: *See*—
Klein, Goldie J. and B.

Klein, Goldie J. and B., New York, N. Y. Greeting display card. 2,661,559, Dec. 8.

Klinkhamer, Jacob F., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric filter network. 2,662,216, Dec. 8.

Knoll, William V., Dayton, Ohio. Beater mechanism for treating papermaking material. 2,661,665, Dec. 8.

Knoll, William V., Dayton, Ohio. Apparatus for pulping papermaking material. 2,661,666, Dec. 8.

Knoll, William V., Dayton, Ohio. Apparatus for refining papermaking material. 2,661,667, Dec. 8.

Knuth, Harvey G., Elgin, assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Sectional top with edge binder. 2,661,990, Dec. 8.

Knuth, Harvey G., Elgin, assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Sectional cabinet and filler structure therefor. 2,661,994, Dec. 8.

Knuth, Harvey G., Elgin, assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Filler structure for kitchen cabinets. 2,661,995, Dec. 8.

Koch, Robert B.: *See*—
James, Ralph E., Jr., and Koch.

Koci, Jerry C., Barrington, assignor to Chicago Coin Machine Co., Chicago, Ill. Amusement and target practicing device. 2,661,954, Dec. 8.

Koenig, Walter, Jr., Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical transmission system including bilateral transistor amplifier. 2,662,123, Dec. 8.

Kolbe, John A., North Manchester, assignor to Arnolt Corporation, Warsaw, Ind. Attachment of decorative balls between parallel tube elements of furniture. 2,661,968, Dec. 8.

Kolbet, Paul, Cresco, Iowa. Dairy container sediment trap. 2,661,844, Dec. 8.

Kordesch, Karl: *See*—
Marko, Adolf, and Kordesch.

Korkosz, Frank D., assignor to American Planetarium Corporation, Chicopee, Mass. Projection apparatus for projecting spots of light simulating stars upon a surface. 2,661,654, Dec. 8.

Kostelancik, Paul: *See*—
Stastny, William, and Kostelancik.

Kowalik, John J., assignor to American Steel Foundries, Chicago, Ill. Snubbed truck. 2,661,702, Dec. 8.

Kozacka, Frederick J., Amesbury, Mass., assignor to The Chase-Shawmut Company. Supercurrent fuse. 2,662,140, Dec. 8.

Krause, Norman R., and S. C. Heth, assignors to J. I. Case Company, Racine, Wis. Corn harvester. 2,661,586, Dec. 8.

Krelsel, Earl W., assignee: *See*—
Ruport, Alvin A.

Kretschmar, Ernest, Clayton, Mo. Electrical insect killer with fire preventing means. 2,661,512, Dec. 8.

Kretzschmar, George W., Ridgewood, N. J. Tension control for the let-off mechanisms of looms. 2,661,773, Dec. 8.

Kretzschmar, George W., Ridgewood, N. J. Device for maintaining the tension in the warp threads of a loom uniform. 2,661,774, Dec. 8.

Kröger, Ferdinand A., Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Self-activated zinc sulfide phosphors. 2,662,060, Dec. 8.

Kuentzel, Ward E., Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill. Electromagnetic stirrer for high-pressure contactors. 2,661,938, Dec. 8.

Küller, Nils-Erik G., Karlskoga, and K.-J. Thorild, Thorildsson, assignors to Aktiebolaget Bofors, Bofors, Sweden. Holder assembly for the propellent charges in rocket motors. 2,661,595, Dec. 8.

Kuwayama, Masatoshi, Taga, assignor to Hitachi Limited, Chiyoda-Ku, Tokyo, Japan. High speed trip device for electric circuit breakers. 2,662,136, Dec. 8.

La Barre, George D.: *See*—
Vogel, Max R., La Barre, and Perry.

Lagarias, John S.: *See*—
Hewitt, George W., and Lagarias.

Lamb, Wade, assignor to F. L. Jacobs Co., Detroit, Mich. Fuel pump diaphragm mounting. 2,661,767, Dec. 8.

Lammerz, Ernst, Essen, and H. Herrmann, Kettwig, assignors to Fried. Krupp Lokomotivfabrik, Essen, Germany. Twin multiple speed transmission. 2,661,632, Dec. 8.

Lanker, Donald J., assignor to Artkraft Manufacturing Corporation, Lima, Ohio. Defroster for refrigerator evaporators. 2,661,602, Dec. 8.

Lanstrom, Carl T., and J. E. Leaver, Concord, Calif., assignors to United States Steel Corporation. Adapter for uncoilers. 2,661,911, Dec. 8.

Lanzit Corrugated Box Company, assignee: *See*—
Stasny, William, and Kostelancik.

Larsen Company, The, assignee: *See*—
Winters, Russell H.

Larson, William N., Sr., assignee: *See*—
Onley, William B., Jr.

Lash, Gerland A., and E. B. Chamberlin, Stockton, Calif., said Lash assignor to said Chamberlin. Filter. 2,661,846, Dec. 8.

Laufer, Roger, Louisville, Ky. Convertible apparatus for use in care of infants and for other purposes. 2,661,791, Dec. 8.

Lauro, Timotheo, San Francisco, Calif. Grapple. 2,661,978, Dec. 8.

Lavallee, Eugene V.: *See*—
Logan, Joseph A., and Lavallee.

Lawrence, Gerald B., New York, and J. A. Huberman, Brooklyn, N. Y., said Lawrence assignor to said Huberman. Capsule-filling device with capsule hopper feed. 2,661,884, Dec. 8.

Leary, Joseph C., Greenfield, Ind. Twister mechanism and bale tie. 2,661,680, Dec. 8.

Leaver, James E.: *See*—
Lanstrom, Carl T., and Leaver.

Le Comte, Corstlaan, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Saw tooth voltage generator. 2,662,197, Dec. 8.

Lee, Burton D.: *See*—
Herzog, Gerhard, and Lee.

Lee, Robert E., Herndon, Va., and C. A. Benden, Washington, D. C. Transporting carrier for cartons and the like. 2,661,879, Dec. 8.

Leighton, John W., Port Huron, Mich. Form cutting tool. 2,661,524, Dec. 8.

Less, Frank W., Kenmore, E. C. Roeck, Buffalo, and J. C. Searer, Kenmore, assignors to Durez Plastics & Chemicals, Inc., North Tonawanda, N. Y. Mold making composition. 2,662,067, Dec. 8.

Le Valley, John, Painted Post, assignor to Ingersoll-Rand Company, New York, N. Y. Control device for fluid compressors. 2,661,893, Dec. 8.

Levell, Derek A., Highbury, London, assignor to A. C. Cossor Limited, London, England. Voltage generating circuit. 2,662,178, Dec. 8.

Levi, Ormonde S., assignor to Verd-A-Ray Processing Company, Toledo, Ohio. Staining glass, glass staining compositions, and stained glass article. 2,662,035, Dec. 8.

Levi, Ormonde S., assignor to Verd-A-Ray Processing Company, Toledo, Ohio. Staining glass and glass staining composition. 2,662,036, Dec. 8.

Levi, Ormonde S., assignor to Verd-A-Ray Processing Company, Toledo, Ohio. Staining glass and glass staining composition. 2,662,037, Dec. 8.

Levin, Carl A., Park Ridge, and R. W. Quirk, assignors to Ditto, Incorporated, Chicago, Ill. Duplicating machine. 2,661,686, Dec. 8.

Lew, Baak W.: *See*—
Kass, Peter, and Lew.

Liggett, Edward R., Fresno, and C. R. Calender, Calwa, Calif., assignors to Husky Refrigeration Corporation, Reno, Nev. Separator for intermingled fluids. 2,661,605, Dec. 8.

Lim, Peter, Los Angeles, Calif. Fire extinguisher sprinkler head. 2,661,805, Dec. 8.

Lindell, Sigurd I., Chicago, and C. H. Baker, Maywood, assignors to S & C Electric Company, Chicago, Ill. Circuit interrupter housing. 2,662,138, Dec. 8.

Lindell, Sigurd I., Chicago, and C. H. Baker, Maywood, assignors to S & C Electric Company, Chicago, Ill. Circuit interrupter. 2,662,139, Dec. 8.

Lindner, Edward, and M. Muller, Philadelphia, Pa. Plastic heel guard. 2,661,549, Dec. 8.

Lindner, John C., assignor to General Railway Signal Company, Rochester, N. Y. Highway crossing gate control system. 2,662,167, Dec. 8.

Lines, Harold A., assignor to Fluid Systems, Incorporated, Hamden, Conn. Control apparatus for dividing fluid flow mechanisms. 2,661,757, Dec. 8.

Lingelbach, Richard C., Hastings, Nebr. Register frame. 2,661,677, Dec. 8.

Lionel Corporation, The, assignee: *See*—
Bonanno, Joseph L.

Lithium Corporation of America, Inc., assignee: *See*—
Fenton, Walter M.

Little, Robert A., Cleveland, Ohio. Sectional furniture. 2,661,993, Dec. 8.

Littman, Lawrence, Ramsey, assignor, by mesne assignments, to Advance Holding Corporation, Upper Montclair, N. J. Paper cutting means with a suction applying device. 2,661,801, Dec. 8.

Logan, Joseph A., Hadley, and E. V. Lavallee, South Hadley Falls, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Time-controlled fuel pump unloading means for pressure-atomizing oil burners. 2,661,795, Dec. 8.

Lomazzo, Edmund J., Norwalk, and L. E. Maquat, Easton, Conn., assignors, by mesne assignments, to The Dayton Rubber Company, Dayton, Ohio. Belt dressing and cutting device. 2,661,579, Dec. 8.

Long, Marion V., and F. C. Schneider, Berkeley, assignors to Shell Development Company, Emeryville, Calif. Control system for oil well pumps. 2,661,697, Dec. 8.

Longstreet, James R., Maple Heights, assignor to The Warner & Swasey Company, Cleveland, Ohio. Rectangular condenser for pin drafters. 2,661,503, Dec. 8.

Lo Presti, Roy F.: *See*—
McCann, Keith, and Lo Presti.

Lovenston, Hans J., Detroit, Mich. Gauge unit. 2,661,539, Dec. 8.

Lowe, William B., Springhaven, and H. E. Pape, Norwood, Pa., assignors to American Viscose Corporation, Wilmington, Del. Strand lacer for reels. 2,661,522, Dec. 8.

Lubbert, Carl B., Annesle, Md., and C. H. Trimble, Winston Salem, N. C., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for magazining articles. 2,661,866, Dec. 8.

Lubenow, Lewis W., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Method of and apparatus for supplying steam to the interior of advancing molds. 2,661,496, Dec. 8.

Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Serial numbering machine. 2,661,896, Dec. 8.

Lynch, Ridgeway T.: *See*—
Griset, Ernest J., Jr., and Lynch.

Lyon Metal Products, Incorporated, assignee: *See*—
Knuth, Harvey G.

Lysaght, John P., Milwaukee, Wis. Knockdown picnic table and bench assembly. 2,661,792, Dec. 8.

M B G Corporation, assignee: *See*—
Mitchell, Wallace F.

Maass, Robert H.: *See*—
Brown, Herbert F., and Maass.

MacDonald, Robert N., New Castle, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of N-carboanhydrides of alpha amino acids. 2,662,084, Dec. 8.

MacLagan, Carl F.: *See*—
Clark, Laurence E., Jr., and MacLagan.

Maeser, Mieth: *See*—
Tyndall, Joseph M., and Maeser.

Magaro, Robert L., Marysville, assignor of 35% to F. Ricci, West Fairview, and 15% to S. Magaro, Mechanicsburg, Pa. Safety lock for firearms. 2,661,561, Dec. 8.

Magaro, Sadie, assignee: *See*—
Magaro, Robert L.

Magill, Lloyd G.: *See*—
Dougherty, Patrick F., and Magill.

Magor, Stuart F., and R. A. Daugherty, Houston, Tex., assignors to The Superior Oil Company, Los Angeles, Calif. Recovery of hydrocarbons. 2,662,049, Dec. 8.

Mairs, William J., Waltham, assignor to Technology Instrument Corporation, Acton, Mass. Continuously variable resistors. 2,662,150, Dec. 8.

Malby, Seth G., Edgewater, N. J. Picture display device. 2,661,560, Dec. 8.

Malley, Anthony J.: *See*—
Arranga, Edmund V., and Malley.

Manion, Peter M., Portland, Oreg. Smoker's receptacle. 2,661,747, Dec. 8.

Mann, Harvey T., assignee: *See*—
Bangsbergh, Lester R.

Mann, Oliver, Danvers, assignor to Sylvania Electric Products Inc., Salem, Mass. Exhaust head. 2,661,964, Dec. 8.

Maquat, Lloyd E. *See*—
Lomazzo, Edmund J., and Maquat.

Marconi's Wireless Telegraph Company Limited, assignee: *See*—
Beard, John V.
Starks-Field, Alfred B.

Marcucci, Marino, Englewood, N. J. Attachment for twist drills: 2,661,642, Dec. 8.

Markley, Richard, assignor to Dairy Equipment Company, Madison, Wis. Milk cooler. 2,661,807, Dec. 8.

Marko, Adolf.: *See*—
Holzer, Wolfgang, and Marko.

Marko, Adolf, and K. Kordesch, Vienna, Austria. Device for measuring the discharge voltage of galvanic cells. 2,662,211, Dec. 8.

Mars, Incorporated, assignee: *See*—
Clement, Ernest C.

Martin, Amelia A., administratrix: *See*—
Martin, Victor.

Martin, Philippe T., assignor to Societe Anonyme des Manufacturers des Glaces & Produits Chimiques de Saint-Gobain Chauny Cirey, Paris, France. Apparatus and method of surfacing glass sheets and plates. 2,661,581, Dec. 8.

Martin, Victor, deceased, Parkstone, England; A. A. Martin and D. Attwell, administratrices. Pivoted locking means for lines. 2,661,514, Dec. 8.

Maschwitz, Percy A., Flossmoor, assignor to The Pure Oil Company, Chicago, Ill. Manufacturing sodium hydrosulfide solution. 2,662,000, Dec. 8.

Mason, Ralph B., and W. C. Cochran, New Kensington, assignors to Aluminum Company of America, Pittsburgh, Pa. Impregnating an oxide coating on aluminum and resulting article. 2,662,034, Dec. 8.

Mathes, Kenneth N., and T. J. Rasmussen, Schenectady, N. Y., assignors to General Electric Company. Paraffin wax having low electrical conductivity and coating glass therewith. 2,662,029, Dec. 8.

Mathieson Chemical Corporation, assignee: *See*—
Kamlet, Jonas.

Maynard, Lyman E.: *See*—
Stanley, Aubrey H., and Maynard.

Mazzagatti, Roy P.: *See*—
Crumrine, Kenneth C., and Mazzagatti.

McBean, Douglas M., Rochester, N. Y., assignor Carter Products, Inc. Apparatus for charging liquid products and volatile propellants into pressure containers. 2,661,885, Dec. 8.

McCann, Keith, Taylorville, and R. F. Lo Presti, assignors to Goodman Manufacturing Company, Chicago, Ill. Conveyer loading station. 2,661,829, Dec. 8.

McCarthy, Paul R., Allison Park, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Lubricating compositions. 2,662,056, Dec. 8.

McCarthy, Paul R., Allison Park, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Lubricating compositions. 2,662,057, Dec. 8.

McCarthy, Paul R., Allison Park, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Petroleum lubricating jelly. 2,662,058, Dec. 8.

McCarthy, Paul R., Allison Park, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Lubricating compositions. 2,662,059, Dec. 8.

McConnell, Clarence J.: *See*—
Vallorani, Ben J., and McConnell.

McCracken, James W., Leechburg, Pa. Crating system for sheet material or the like. 2,661,837, Dec. 8.

McCracken, James W., Leechburg, Pa. Crating system for sheet material or the like. 2,661,838, Dec. 8.

McDonald, E. H., assignee: *See*—
Adams, George D., Jr., and Humphries.

McElhannon, William A.: *See*—
Clevenger, Oliver L., McElhannon, and Jones.

McElroy, Roy H., assignor to International Clay Machinery Company, Dayton, Ohio. Steel wheel. 2,661,980, Dec. 8.

McFarlane, William F.: *See*—
Stevenson, Glenn M., and McFarlane.

McFeely Brick Company, assignee: *See*—
Keltz, Frank O.

McGauley, Patrick J.: *See*—
Roberts, Edward S., McGauley, and Schaufelberger.

McGay, John, and G. E. Nicholson, Tulsa, Okla., assignors to Rockwell Register Corporation. Chart drive mechanism. 2,661,815, Dec. 8.

McLean, Harry C., deceased, Los Angeles, Calif., N. Troxel, administratrix of said H. C. McLean, assignor to N. I. Troxel. Egg cleaning and sealing machine. 2,661,715, Dec. 8.

McMillan, Brockway, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transistor amplifier circuit. 2,662,124, Dec. 8.

McMillan, Fred O., Corvallis, Oreg. Method and apparatus for shelling nuts. 2,661,784, Dec 8.

McNairy, Jacob W., Westport, Conn., assignor to General Electric Company, Under counter dishwasher. 2,661,750, Dec. 8.

McNutt, John W., Dravosburg, Pa., assignor to United States Steel Corporation. Hold-down apparatus for industrial trucks. 2,661,857, Dec. 8.

Mead, George H., Detroit, Mich., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Decorative wall surfacing material. 2,662,064, Dec. 8.

Meder, Arthur A., Jr.: *See*—
Hamilton, John, and Meder.

Medical Fabrics Co., Inc., assignee: *See*—
Gamber, Eugene, and Freiberger.

Mehltretter, Charles L., and J. C. Rankin, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Gluconamides. 2,662,073, Dec. 8.

Meiners, Harry, St. Bernard, Ohio. Double curtain or drapery rod bracket. 2,661,923, Dec. 8.

Merck & Co., Inc., assignee: *See*—
Howe, Eugene E.

Merz, Paul L., New Haven, Conn., F. Witzel, and A. S. Burhans, assignors to Beech-Nut Packing Company, Canajoharie, N. Y. Chewing gum base. 2,662,016, Dec 8.

Messinger, William, Philadelphia, Pa. Drier. 2,661,545, Dec. 8.

Metzger, Norman A.: *See*—
Norgren, Carl A., Mosier, Bowdey, and Metzger.

Michael, Harold E., assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Aircraft door lock. 2,661,975, Dec. 8.

Mildrum, Roy F.: *See*—
Novak, August W., and Mildrum.

Miles, John, & Partners (London) Limited, assignee: *See*—
Hookham, George.

Miles, Maebyn L., assignor to Nancy Garment Company, Kent, Wash. Child's overall garment. 2,661,473, Dec. 8.

Milkow, Robert, New York, N. Y. Machine for applying glue to sheet material. 2,661,716, Dec. 8.

Miller, Gerald F., Dallas, Tex. Garment construction. 2,661,472, Dec. 8.

Miller, Hercheal W., Davenport, Iowa, and B. A. Buss, East Moline, Ill., assignors to American Machine and Metals, Inc., New York, N. Y. Counter to indicate the number of times a shaft is moved. 2,661,901, Dec. 8.

Miller, Louis P., North Plainfield, N. J. Wool combing machine. 2,661,502, Dec. 8.

Miller, Rosalie E., executrix: *See*—
Miller, Samuel C.

Miller, Samuel C., deceased, New York, N. Y.: R. E. Miller, executrix. Electrode housing for elongated tubular lamps and terminal contact therefor. 2,662,218, Dec. 8.

Miller, William T., Ithaca, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Copolymerizing $CF2CF_2$ with CF2CFCl. 2,662,072, Dec. 8.

Mills, Howard V., assignor to The Denison Engineering Company, Columbus, Ohio. Safety control mechanism for hydraulic apparatus. 2,661,722, Dec. 8.

Minneapolis-Honywell Regulator Company, assignee: *See*—
Saari, Oliver E.
Wissmiller, Vernon D.

Minneci, Salvatore, and E. J. De Noyers, Pittsfield, Mass., assignors to General Electric Company. Separable plug and socket connector. 2,662,222, Dec. 8.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Mead, George H.

Minor, Francis W.: *See*—
Brown, Alfred E., Sookne, and Minor.

Miranda Brothers Trading Corporation, assignee: *See*—
Amezurrutia, Jesus M.

Mishcon, Samuel, Belle Harbor, and H. Agulnek, assignors to Supreme Knitting Machine Co., Inc., Brooklyn, N. Y. Dial construction for circular rib-type knitting machines. 2,661,613, Dec. 8.

Mitchell, Howard B., Larkspur, Calif. Multicolored electric flashlight. 2,662,224, Dec. 8.

Mitchell, Wallace F., assignor to M B G Corporation, Chicago, Ill. Fluid seal. 2,661,967, Dec. 8.

Mittelstadt, Roy L.: *See*—
Albertson, Walter H., and Mittelstadt.

Mizzoni, Renat H.: *See*—
Huebner, Charles F., Mizzoni, Mull, and Scholz.

Moffett, Archibald R., Orinda, Calif. Fluid pressure gauge. 2,661,626, Dec. 8.

Mohundro, George D., East Alton, Ill. Memorandum attachment for telephones. 2,661,961, Dec. 8.

Mollner, William J., Pittsburgh, Pa. Combination lighting fixture and curtain holder. 2,662,163, Dec. 8.

Monsanto Chemical Company, assignee: *See*—
Daniloff, Karl B.

Montgomery, William G., Birmingham, Ala., assignor to United States Steel Corporation. Sheet pickup and feeder. 2,661,948, Dec. 8.

Moore, John D., Montreal, Quebec, Canada. Ruling machine. 2,661,538, Dec. 8.

Moore, Milford B.: *See*—
Jacobson, Irving, Brundage, and Moore.

Moorman, Joseph W., Alpine, and L. J. Kelly, Tenafly, assignors to The M. W. Kellogg Company, Jersey City, N. J. Catalytic conversion of hydrocarbons. 2,662,050, Dec. 8.

Morgan, Joseph P., Wampum, assignor of 49 per cent to H. Criscl, New Castle, Pa. Auomatic magnetic brake for band saws. 2,661,780, Dec. 8.

Morgan, Richard M.: *See*—
Houck, Hooper J., and Morgan.

Moriarty, Benedict E., Kenosha, Wis. Storm window latch. 2,661,509, Dec. 8.

Morrison, Albert R., Newark, and R. F. Shannon, Lancaster, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Coated fabrics. 2,662,044, Dec. 8.

Mosier, Kenneth C.: *See*—
Norgren, Carl A., Mosier, Bowdey, and Metzger.

Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Vehicle mounted hydraulic type power transmitting unit. 2,661,674, Dec. 8.

Moyer, Richard C.: *See*—
Rysdon, Max L., and Moyer.

Muldowney, Joseph P.: *See*—
Stone, Eliot, Sparke, and Muldowney.

Mull, Robert P.: *See*—
Huebner, Charles F., Mizzoni, Mull, and Scholz.

Muller, Martha: *See*—
Lindner, Edward, and Muller.

Mullins, James H., assignor of one-third to S. A. Budner and one-third to R. Hauser, Westport, Conn. Wheel stopping device. 2,661,817, Dec. 8.

Multi Ring Brake Drum Corporation, assignee: *See*—
De Yo, Arthur C.
Strohm, Oscar W.

Munz, Jaroslav, and J. Tichopad, assignors to Vend-O-Matic Limited, Toronto, Ontario, Canada. Automatic vending machine. 2,661,827, Dec. 8.

Murray, Alan E., New York, N. Y. Illuminating means for musical score supporting devices. 2,662,164, Dec. 8.

Murray, Fred, Butler, Pa. Dump gate. 2,661,875, Dec. 8.

Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. 14 alpha - hydroxy - androstene - diones and process. 2,662,089, Dec. 8.

Murray, Linwood A., Jr.: *See*—
Uhlig, Edwin C., and Murray.

Mutuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of paraffins. 2,662,103, Dec. 8.

Myers, Gene R., Seattle, Wash., assignor to Boeing Airplane Company. Cable tension compensating and regulating apparatus. 2,661,631, Dec. 8.

Nancy Garment Company, assignee: *See*—
Miles, Maebyn L.

National Cylinder Gas Company, assignee: *See*—
Christain, Donald C., and Reed.

National Oats Company, assignee: *See*—
Hanser, William F.

National Research Development Corporation, The, assignee: *See*—
Wolff, Heinz S., Story, and Behrens.

Negri, Ismaele: *See*—
Negri, Mario and I.

Negri, Mario and I., Milan, Italy. Hand knitting machine. 2,661,611, Dec. 8.

Nelson, Jessie A., New York, N. Y., assignor to the United States of America as represented by the Secretary of the Army. Coaxial-line switch. 2,662,142, Dec. 8.

Nelson, John H., Valders, Wis. Pea thresher having spring actuated beaters. 2,661,745, Dec. 8.

Nelson, Lawrence, Jr., Chicago, Ill. Comparted traveling bag. 2,661,824, Dec. 8.

Nelson, Lewen R., Peoria, Ill. Hose connector for plastic pipe. 2,661,962, Dec. 8.

Nelsson, Nels, assignor to United States Gypsum Company, Chicago, Ill. Resilient fastening clip. 2,661,515, Dec. 8.

Neumayer, Elizabeth M., Astoria, N. Y. Protective attachment for women's undergarment. 2,661,471, Dec. 8.

Newell, James K.: *See*—
Fisher, Alec, and Newell.

Niagara Blower Company, assignee: *See*—
Deverall, Charles N.
Stutz, Robert C.

Nicholson, George E.: *See*—
McGay, John, and Nicholson.

Niesemann, Fritz, assignor to Rockwell Manufacturing Company, Pittsburgh, Pa. Fluid pressure regulator. 2,661,578, Dec. 8.

Nims, Paul T., and B. C. Jacob, Jr., Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Control for propeller governor having delayed propeller speed regulation. 2,661,806, Dec. 8.

Noon, T Cyril, Bainbridge Township, Geauga County, and F. C. Bayer, Euclid, assignor to Thompson Products, Inc., Cleveland, Ohio. Flow control apparatus. 2,661,756, Dec. 8.

Norgren, C. A., Co., assignee: *See*—
Norgren, Carl A., Mosier, Bowdey, and Metzger.

Norgren, Carl A., Westwood, K. C. Mosier, Denver, R. D. Bowdey, Lakewood, and N. A. Metzger, assignors to C. A. Norgren Co., Denver, Colo. Air line lubricator. 2,661,814, Dec. 8.

Northrop Aircraft, Inc., assignee: *See*—
Michael, Harold E.

Norton Company, assignee: *See*—
Crompton, George, Jr.

Novak, August W., Union, and R. F. Mildrum, Hillside, N. J., assignors to Standard Oil Development Company. Indicating orifice plate for threaded orifice. 2,661,768, Dec. 8.

Norvill, Victor A., Pequabock, Conn. Watchmaker's pliers. 2,661,646, Dec. 8.

O'Bannon, Loran S.: *See*—
Schofield, Henry Z., and O'Bannon.

O'Brien, John V.: *See*—
Rudolph, Herbert H., and O'Brien.

O'Connell, Harry E.: *See*—
Governale, Luke J., Horn, and O'Connell.

O'Connor, Bernard E., Buffalo, N. Y. assignor to Houdaille-Hershey Corporation, Detroit, Mich. Aircraft landing wheel shimmy damper. 2,661,915, Dec. 8.

O'Connor, Bernard E., Buffalo, and B. Fuente, Hamburg, N. Y., assignors to Houdaille-Hershey Corporation, Detroit, Mich. Aircraft landing wheel shimmy damper. 2,661,917, Dec. 8.

Odell, William W., New York, N. Y. Process and means of promoting chemical reactions. 2,662,091, Dec. 8.

O'Hear, James C.: *See*—
Sunderhauf, Frederick A., and O'Hear.

Oilgear Company, The, assignee: *See*—
Ferris, Walter.

Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Cable tensioning device for a windshield cleaner installation. 2,661,492, Dec. 8.

O'Keefe, Daniel P., Los Angeles, Calif. Gas stove control panel. 2,661,732, Dec. 8.

Okey, Perry, Columbus, Ohio. Electrostatic machine. 2,662,191, Dec. 8.

Okie, John A., Devon, assignor to Crystal X Corp., Lenni Mills, Pa. Insecticide package. 2,661,981, Dec. 8.

Oldenburg, Elmer C., Blakeley, Minn. Container closure. 2,661,861, Dec. 8.

Olivier Paege, Walter, Madrid, Spain. Soap case. 2,661,567, Dec. 8.

Olson, Holly M., assignor to Sealed Power Corporation, Muskegon, Mich. Piston enlarging machine. 2,661,643, Dec. 8.

Onley, William B., Jr., Owensboro, Ky., assignor of fifty per cent to W. N. Larson, Sr., Evansville, Ind. Articulated wheeled pull toy. 2,661,573, Dec. 8.

Opfermann, Adolf C. J., assignee: *See*—
Thiele, Wolfgang E.

Orr, John H., assignor to Carbodies Limited, Coventry, England. Means for actuating the door locks of motor-cars. 2,661,976, Dec. 8.

Osborn Manufacturing Company, The, assignee: *See*—
Benyak, John B.
Peterson, Ruben O.

Osgood, Walter P., Malden, assignor to Boston Machine Works Company, Lynn, Mass. Damper for furnace flues. 2,661,905, Dec. 8.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Morrison, Albert R., and Shannon.

Pacific Electric Manufacturing Corporation, assignee: *See*—
Umphrey, Donald M.

Page, Ancel S.: *See*—
Johnson, Axel, and Page.

Palkovic, Nicholas J.: *See*—
Bechman, William O., and Palkovic.

Pape, Harry E.: *See*—
Lowe, William B., and Pape.

Paper Patents Company, assignee: *See*—
Grishaber, Ralph V.

Paradis, Joseph R.: *See*—
Ajam, Mustafa J., Paradis, and Bergman.

Paramount Textile Machinery Co., assignee: *See*—
Albertson, Walter H., and Mittelstadt.

Parker Appliance Company, The, assignee: *See*—
Resek, Robert B.

Parmesan, Daniel J., Houston, Tex., assignor, by mesne assignments, to Chiksan Company, Brea, Calif. Union which permits misalignment. 2,661,965, Dec. 8.

Pascoe, Walter R.: *See*—
Seymour, Raymond B., and Pascoe.

Passal, Frank, Detroit, Mich., assignor to United Chromium, Incorporated, New York, N. Y. Electrodepositing chromium directly on aluminum. 2,602,054, Dec. 8.

Pastorius, Ernest W., Windsor, Ontario, Canada. Mileage calculator. 2,661,900, Dec. 8.

Pavlis, Frank E., Allentown, assignor to Air Products, Incorporated, Emmaus, Pa. Pumping liquefied gases containing nitrogen. 2,661,608, Dec. 8.

Peak, Douglas A.: *See*—
Short, Wallace F., Peak, and Watkins.

Peddinghaus, Paul F., assignee: *See*—
Peddinghaus, Werner, and Funke.

Peddinghaus, Werner, and E. Funke, assignors to Paul F. Peddinghaus, Gevelsberg, Germany. Bending machine. 2,661,786, Dec. 8.

Peebles, David D., Hillsborough, and C. P. Turner, Petaluma, assignors to Western Condensing Company, San Francisco, Calif. Centrifugal atomizer. 2,661,984, Dec. 8.

Pelzer, Harry L., Ogden Dunes, Ind., assignor to Sinclair Refining Company, New York, N. Y. Conversion of heavy hydrocarbons. 2,662,051, Dec. 8.

Perry, William M.: *See*—
Vogel, Max R., La Barre, and Perry.

Persha, Henry J., Portland, Oreg. Valve. 2,661,758, Dec. 8.

Pessel, Leopold, Springfield Township, Montgomery County, Pa., assignor to Radio Corporation of America. Electric marking method, apparatus, and carrier for facsimile systems and the like. 2,661,998, Dec. 8.

Petersen, Warren R., Baldwin, assignor to Republic Aviation Corporation, near Farmingdale, N. Y. Pivot pin or bolt. 2,661,970, Dec. 8.

Peterson, Durey H.: *See*—
Murray, Herbert C., and Peterson.

Peterson, Ruben O., University Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Brush. 2,661,491, Dec. 8.

Petrecca, Joseph, Bloomfield, N. J. Sterile brush dispenser. 2,661,991, Dec. 8.

Petrie, James A., Littleover, assignor to Rolls-Royce Limited, Derby, England. Coaxial combustion products generator, turbine, and compressors. 2,661,594, Dec. 8.

Petry, Lewis W., Middletown, and J. Baxter, Jr., Franklin, assignors to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,661,546, Dec. 8.

Philips Laboratories, Inc., assignee: *See*—
Poliakoff, Theodore E.

Phillips Petroleum Company, assignee: *See*—
Bubb, Frank W.
Gilmore, Forrest E.
Mutuszak, Maryan P.
Waddill, Paul M., and Fowler.

Phinney, Delbert E., Sherman, Tex. Thermal coffee cup. 2,661,889, Dec. 8.

Pike, Ralph E., Rose Valley, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polychromatic coating compositions. 2,662,027, Dec. 8.

Pirie, Norman W.: *See*—
Hadidian, Zareh, and Pirie.

Pittman, Harrison V., Little Rock, Ark. Sod planting machine. 2,661,708, Dec. 8.

Platt Brothers & Company Limited, assignee: *See*—
Szaloki, Zoltan.

Plebanek, Leonard Z.: *See*—
Christeck, Bruno J., and Plebanek.

Poliakoff, Theodore E., New York, assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y. Folded Schmidt television projector with color disk. 2,662,111, Dec. 8.

Polsky, Nathan H., Levittown, N. Y. Measuring device suitable for diagnostic purposes. 2,661,733, Dec. 8.

Polymer Corporation, The, assignee: *See*—
James, Ralph E., Jr., and Koch.

Potier, Gaston X., Versailles, France. Double modulated pulse transmission. 2,662,116, Dec. 8.

Potter, John H., Milwaukee, Wis. Automatic deicer for electrical transmission lines. 2,662,156, Dec. 8.

Poudreries Reunies de Belgique S. A., assignee: *See*—
Diels, Albert F. M.

Poulenc, Pierre, Paris, B. Ganthier, Antony, and G. M. E. A. Kirchhoffer, assignors to Societe: Chimie et Atomistique, Paris, France. Purifying dehydrocholic acid. 2,662,088, Dec. 8.

Precision Gear and Machine Company, assignee: *See*—
Goodgame, Jesse B.

Pressure Gauges Limited, assignee: *See*—
Grant, Charles R. A.

Proctor & Schwartz, Inc., assignee: *See*—
Hamilton, John, and Meder.

Puckman, Hyman, assignor to Hermac International, Ltd., New York, N. Y. Fountain syringe bag. 2,661,741, Dec. 8.

Pure Oil Company, The, assignee: *See*—
Maschwitz, Percy A.

Purpura, August C., assignor to Sunbeam Corporation, Chicago, Ill. Control system suitable for automatic coffee makers. 2,662,160, Dec. 8.

Putnam, Charles W.: *See*—
Bilofsky, Myers A., and Putnam.

Quirk, Robert W.: *See*—
Levin, Carl A., and Quirk.

Rabinowitz, Louis M., Brooklyn, N. Y. Fastener strip. 2,661,478, Dec. 8.

Racek, Alfred, and J. Raganitsch, Vienna, Austria. Gas igniter. 2,661,616, Dec. 8.

Racho, Matilda A., Riverside, Conn. Holder. 2,661,748, Dec. 8.

Radio Corporation of America, assignee: *See*—
Pessell, Leopold.
Roberts, Walter van B.

Raganitsch, Johann: *See*—
Racek, Alfred, and Raganitsch.

Railton, Denis E., East Burnham, and F. White, Maidenhead, England; said Railton assignor of one-half of his share to Ideal Capsules Limited, and said White, assignor to Ideal Capsules Limited, Slough, England. Machine for making pleated metal foil. 2,661,670, Dec. 8.

Ramsay, Raoul, Cut Knife, Saskatchewan, Canada. Toy boat. 2,661,571, Dec. 8.

Ramsey, George H., Ardmore, Okla., assignor to Standard Oil Development Company. Formation tester sample chamber assembly. 2,661,803, Dec. 8.

Rankin, John C.: *See*—
Mehltretter, Charles L., and Rankin.

Rasmussen, Thomas J.: *See*—
Mathes, Kenneth N., and Rasmussen.

Ray, Harold E.: *See*—
Johnson, Malcolm S., and Ray.

Read Standard Corporation, assignee: *See*—
Jorgenson, Gerald A.
Rhodes, Herbert C.

Reconstruction Finance Corporation, assignee: *See*—
Treff, Alfred.

Reed, Robert M.: *See*—
Christain, Donald C., and Reed.

Reichenbach, Frederick B., Des Moines, Iowa. Animal feeding device. 2,661,800, Dec. 8.

Reichold, Ludwig, Simsbury, Conn. Steaming and pressing apparatus. 2,661,552, Dec. 8.

Reiners, Neville M., assignor to Cummins Engine Company, Inc., Columbus, Ind. Fuel feeding apparatus. 2,661,729, Dec. 8.

Relaxacizor, Inc., assignee: *See*—
Browner, William J.

Remington Rand Inc., assignee: *See*—
Streng, Jan.

Renick, Wendell E., assignor to The Denison Engineering Company, Columbus, Ohio. Relief, sequence, and unloader valve. 2,661,763, Dec. 8.

Renold, Peter: *See*—
Ballard, Stephen, and Renold.
Republic Aviation Corporation, assignee: *See*—
Petersen, Warren R.
Republic Electric & Manufacturing Corporation, assignee: *See*—
Schwartz, Charles.
Resek, Robert B., Warrensville Heights, assignor to The Parker Appliance Company, Cleveland, Ohio. Rotary plug type valve. 2,661,926, Dec. 8.
Revell, Louis A., Hollywood, Calif. Cup construction. 2,661,609, Dec. 8.
Reymann, Alois, Sandwich, Ill. Multiple movement gate. 2,661,557, Dec. 8.
Reymann, Alois, Sandwich, Ill. Latching mechanism. 2,661,971, Dec. 8.
Reynolds, Frank J., North Brunswick, N. J., assignor to Johnson & Johnson. Folding and creasing device. 2,661,947, Dec. 8.
Reynolds, Roger N., Sr.: *See*—
Chapman, James, Jr., and Reynolds.
Rhodes, Herbert C., Portland, Oreg., assignor to Read Standard Corporation. Bread panning machine. 2,661,880, Dec. 8.
Ricci, Fannie, assignee: *See*—
Magaro, Robert L.
Riddell, Wallace C., Berkeley, and G. B. Kirk, Redwood City, Calif., assignors, by mesne assignments, to Kaiser Gypsum Company, Inc. Cementitious compositions. 2,662,024, Dec. 8.
Riggs, Robert B., Santa Barbara, Calif. Mast mounting base. 2,661,918, Dec. 8.
Rinia, Herre, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Amplitude discriminating noise reducing means. 2,662,174, Dec. 8.
Ritter, Alexander S., Brielle, N. J. Potted plant package. 2,661,574, Dec. 8.
Robeer, Andries G.: *See*—
Boterweg, Dirk, Breimer, and Robeer.
Roberts, Edward S., New York, and P. J. McGauley, Glen Cove, N. Y., and F. A. Schaufelberger, Elizabeth, N. J., assignors to Chemical Construction Corporation, New York, N. Y. Gas replacement of metal sulfides. 2,662,009, Dec. 8.
Roberts, Walter V., Princeton, N. J., assignor to Radio Corporation of America. Multiple-neck filter. 2,662,217, Dec. 8.
Robinson, Leland P., and H. W. Washburn, Pasadena, and W. J. Hirschberg, La Crescenta, assignors to Consolidated Engineering Corporation, Pasadena, Calif. Mass spectrometry. 2,662,185, Dec. 8.
Rock Island Millwork Company, assignee: *See*—
Weyerhaeuser, Frederick.
Rockwell, Hugh M., Freeport, N. Y. Circumferentially traveling type tire mounting and demounting apparatus. 2,661,793, Dec. 8.
Rockwell Manufacturing Company, assignee: *See*—
Niesemann, Fritz.
Rockwell Register Corporation, assignee: *See*—
McGay, John, and Nicholson.
Roeck, Eugene C.: *See*—
Less, Frank W., Roeck, and Searer.
Roher, Earl E., Hutchinson, Kans. Combination box spring and mattress. 2,661,486, Dec. 8.
Rollins, Lester G., Meriden, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Cutter chain. 2,661,940, Dec. 8.
Rolls-Royce Limited, assignee: *See*—
Davies, Kenneth R., and Herbstritt.
Petrie, James A.
Ronning, Jacob A., Minneapolis, Minn. Mobile leaf gathering, comminuting, and redistributing machine. 2,661,584, Dec. 8.
Rosen, Emanuel P., Newark, and E. H. Erickson, Teaneck, N. J. Artificial eye and controlling apparatus. 2,661,480, Dec. 8.
Rosenkaimer & Cie., assignee: *See*—
Kampf, Friedrich, and Uthemann.
Royal Electric Manufacturing Co., assignee: *See*—
Burmeister, Howard F.
Royle, Edwin B.: *See*—
Hendrickson, Donald E., Royle, and Schwartz.
Rubin, Julius, Bronx, N. Y. Thread trimming machine. 2,661,519, Dec. 8.
Rudolph, Herbert H., Chicago, and J. V. O'Brien, Park Ridge, assignors to Spartan Tool Company, Chicago, Ill. Pipe cleaning apparatus. 2,661,489, Dec. 8.
Ruegg, Arnold, Gumligen, near Bern, assignor to ARMAG Spezialwerkzeuge- und Maschinen A. G., Gumligen, Switzerland. Device for shape-turning and for the production of hollow shapes and turned parts by means of a rotating cutting tool on machine tools. 2,661,640, Dec. 8.
Ruport, Alvin A., assignor of one-half to E. W. Kreisel, Citrus Heights, Calif. Cooling unit for rabbit hutches. 2,661,718, Dec. 8.
Ryder, Robert M., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Two-way transistor electrical transmission system. 2,662,122, Dec. 8.
Rysdon, Max L., and R. C. Mover, Sioux Falls, S. Dak., said Moyer assignor to said Rysdon. Hog feeder. 2,661,720, Dec. 8.
S & C Electric Company, assignee: *See*—
Lindell, Sigurd L., and Baker.
Saari, Oliver E., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Clamping device for electronic discharge devices. 2,662,220, Dec. 8.
Safian, S. J., assignee: *See*—
Fyke, Russell W.
Salisbury, William S., San Francisco, Calif. Locking seal for vehicle license plates. 2,661,558, Dec. 8.
Salz, Max, New York, N. Y. Electric razor. 2,661,532, Dec. 8.
Samiran, David, Dayton, Ohio. Multiple fuel tank servicing system for aircraft. 2,661,761, Dec. 8.
Samuel, Arthur L., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Glow transfer trigger-switch. 2,662,200, Dec. 8.
Saunders, Clarence, assignor, by mesne assignments, to Automatic Systems Corporation, Memphis, Tenn. Automatic store. 2,661,682, Dec. 8.
Saunders, William G., Eugene, Oreg. Combination log-dogging and taper-setting apparatus. 2,661,779, Dec. 8.
Schaefer, Edward J., Fort Wayne, Ind. Submersible sump pump. 2,662,206, Dec. 8.
Scharmann, Loule R., executrix: *See*—
Scharmann, Walter G.
Scharmann, Walter G., deceased, late of Westfield, N. J., by L. R. Scharmann, executrix, Westfield, N. J., assignor to Standard Oil Development Company. Hydrocarbon systhesis. 2,662,090, Dec. 8.
Schaufelberger, Felix A.: *See*—
Roberts, Edward S., McGauley, and Schaufelberger.
Scheidt, Joseph, and L. A. Teegardin, Streator, Ill. Salt block holder. 2,661,719, Dec. 8.
Schellens, Christopher A., St. George, Maine. Centrifugal pump. 2,661,698, Dec. 8.
Schenk, Tamis C., Richmond Hill, assignor, by mesne assignments, to Fruit Products Corporation, New York, N. Y. Brine tank elevator. 2,661,751, Dec. 8.
Scherbatskoy, Serge A., Tulsa, Okla. System of determining the listening habits of wave signal receiver users. 2,662,168, Dec. 8.
Schlage, Anna, executrix: *See*—
Schlage, Walter R.
Schlage Lock Company, assignee: *See*—
Schlage, Walter R.
Schlage, Walter R., deceased, Burlingame, Calif., by A. Schlage, executrix, Burlingame, assignor to Schlage Lock Company, San Francisco, Calif. Reversible dead latch. 2,661,972, Dec. 8.
Schneider, Frederick C.: *See*—
Long, Marion V., and Schneider.
Schneider, Paul L., H. J. Cromwell, and W. H. Taylor, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Engine starter control apparatus. 2,661,730, Dec. 8.
Schoenbaum, Alexander W., and H. L. Barnes, Richmond, Va., assignors to The American Tobacco Company, New York, N. Y. Process of and apparatus for treating tobacco. 2,661,746, Dec. 8.
Schoenster, Peter J., Teaneck, and M. E. Ebert, assignors to Alfred Hofmann & Co., West New York, N. J. Fabric take-up mechanism for textile machines. 2,661,614, Dec. 8.
Schofield, Henry Z., and L. S. O'Bannon, Columbus, Ohio, assignors, by mesne assignments, to United Aircraft Corporation, East Hartford, Conn. Refractory vitreous ceramic coating material. 2,662,020, Dec. 8.
Scholz, Caesar R.: *See*—
Huebner, Charles F., Mizzoni, Mull, and Scholz.
Schouten, Jan F., and F. de Jager, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Pulse-code modulation communication system. 2,662,113, Dec. 8.
Schouten, Jan F., F. de Jager, and J. A. Greefkes, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Pulse modulation system for transmitting the change in the applied wave-form. 2,662,118, Dec. 8.
Schreur, Jan: *See*—
Van Wageningen, Johan H., and Schreur.
Schutte, Hermann, Pittsburgh, Pa. Trolley wire clamp. 2,662,129, Dec. 8.
Schwartz, Charles, Norwalk, Conn., assignor to Republic Electric & Manufacturing Corporation, New York, N. Y. Electric vibrator for massage purposes. 2,661,736, Dec. 8.
Schwartz, Daniel M.: *See*—
Hendrickson, Donald E., Royle, and Schwartz.
Seaberg, Carl E.: *See*—
Crowe, John T., and Seaberg.
Sealed Power Corporation, assignee: *See*—
Olson, Holly M.
Sealey, William C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dial switch with stationary blades having cutback edges. 2,662,130, Dec. 8.
Searer, Jay C.: *See*—
Less, Frank W., Roeck, and Searer.
Searle, G. D., & Co., assignee: *See*—
Cusic, John W.
Hadid'an, Zareh, and Pirie.
Seaton, Harold E., assignor to The Autocall Company, Shelby, Ohio. Plug-in relay. 2,662,135, Dec. 8.

Security Engineering Division, assignee: *See*—
Swart, Kenneth H.
Seely, Richard E., Fort Wayne, Ind., assignor to General Electric Company. Three-phase alternating current apparatus with thermal protection. 2,662,203, Dec. 8.
Seigle, Leslie L.: *See*—
Gagnebin, Albert P., and Seigle.
Severs, Jan, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric vibration pick-up. 2,661,622, Dec. 8.
Seymour, Raymond B., Allentown, and W. R. Pascoe, Reading, assignors to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Making pipe joints. 2,661,500, Dec. 8.
Seymour, Raymond B., Allentown, and W. R. Pascoe, Reading, assignors to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Pipe jointing composition. 2,662,019, Dec. 8.
Shannon, Richard F.: *See*—
Morrison, Albert R., and Shannon.
Shell Development Company, assignee: *See*—
Long, Marion V., and Schneider.
Smith, Curtis W.
Sherer, Donald L., St. Louis Park, Minn. Combined broadcast seeder and fertilizer spreader. 2,661,955, Dec. 8.
Sherwen, Theo, Norton Lindsey, assignor to Harry Ferguson Limited, Coventry, England. Hydraulic power actuator. 2,661,721, Dec. 8.
Shnitzler, Meyer J., Brookline, Mass., assignor to The Gillette Company. Razor with adjustable guard. 2,661,533, Dec. 8.
Shorrock, Christopher, Preston, England. Oil burner having pneumatic secondary air control. 2,661,794, Dec. 8.
Short, Brooks, H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ignition system. 2,662,202, Dec. 8.
Short, Wallace F., D. A. Peak, and T. I. Watkins, assignors to Boots Pure Drug Company Limited, Nottingham, England. Phenanthridine compounds. 2,662,082, Dec. 8.
Siczkiewicz, Joseph, Jr., and H. L. Voigt, assignors to Geuder, Paeschke & Frey Co., Milwaukee, Wis. Support for ironing tables. 2,661,554, Dec. 8.
Sidlinger, Paul E., Cedar Rapids, Iowa. Safety belt construction. 2,661,888, Dec. 8.
Siemers, Fredrick J.: *See*—
Butler, Leon E., and Siemers.
Simmons, Gladys L., administratrix: *See*—
Simmons, Leon E.
Simmons, Harry M. and R. M., Cleveland, Ohio, assignors to Cleaners Hanger Company, Detroit, Mich. Machine for wrapping garment hangers. 2,661,583, Dec. 8.
Simmons, Leon E., deceased, by G. L. Simmons, administratrix, Claremont, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Tilting mechanism for kerf cutting machines. 2,661,939, Dec. 8.
Simmons, Robert M.: *See*—
Simmons, Harry M. and R. M.
Simon, Eric: *See*—
Holtzman, Harris, and Simon.
Simons, Howard A., Vancouver, British Columbia, Canada. Hydraulic barking or cleaning apparatus. 2,661,781, Dec. 8.
Simpson, Leonard R., Birmingham, Ala. Oil changer. 2,661,869, Dec. 8.
Sinclair Refining Company, assignee: *See*—
Pelzer, Harry L.
Siptrott, Helen M., New York, N. Y. Holder unit for alloy gauges and the like. 2,661,873, Dec. 8.
Siren, Andrew O., Calgary, Alberta, Canada. Germicide seed treating apparatus. 2,661,868, Dec. 8.
Six, Willem, J. L. H. Jonker, and Z. Van Gelder, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Switching system using secondary emission type beam tubes. 2,662,177, Dec. 8.
Skinner, Roberts K., West Hartford, Conn. Bolt anchor with spring rotation preventing means. 2,661,649, Dec. 8.
Slaughter, Charles E., New Canaan, Conn., assignor to Extruded Plastics, Inc. Machine for making tubular containers. 2,661,790, Dec. 8.
Slegten, Jean A., Brussels, Belgium. Air swept tube mill with pocketed liner structure for automatic classification of grinding bodies and ground material. 2,661,908, Dec. 8.
Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Unloading valve for fluid pressure systems. 2,661,755, Dec. 8.
Smith, Clarence L., Seabrook, N. J. Frozen food indicator. 2,662,018, Dec. 8.
Smith, Curtis W., Berkeley, assignor to Shell Development Company, Emeryville, Calif. Producing derivatives of hexahydropyrimidine and converting the same to 1,3-diamines. 2,662,080, Dec. 8.
Smith, Garfield B., Hazel Park, Mich. Selective speed control for motor vehicles. 2,661,941, Dec. 8.
Smith, Sidney R., Jr., Pittsfield, Mass., assignor to General Electric Company. Transformer protective switch. 2,662,137, Dec. 8.
Smith, William W., Buffalo, N. Y. Engine. 2,661,699, Dec. 8.
Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, assignee: *See*—
Martin, Philippe T.
Societe Anonyme dite: Machines Automatiques Bardet, assignee: *See*—
Total, Henri.
Societe: Chimie et Atomistique, assignee: *See*—
Poulenc, Pierre, Gauthier, and Kirchhoffer.
Societe d'Etudes de Machines Speciales Societe a Responsabilite Limitee, assignee: *See*—
Chambon, Louis J.
Societe d'Investigation & d'Exploitation de Brevets, assignee: *See*—
Ståhlberg, Gösta E.
Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Eastwood, Sylvander C.
Evans, Louis P.
Sokolik, Edward, New Brighton, Minn. Insect electrocuting appliance. 2,661,566, Dec. 8.
Sookne, Arnold M.: *See*—
Brown, Alfred E., Sookne, and Minor.
South, Willard A., Minneapolis, Minn. Window construction. 2,661,507, Dec. 8.
Southern Production Company, Inc., assignee: *See*—
Isham, Robert M.
Southern, Raymond L., Troy, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa. Feed and current supply apparatus for consumable electrodes and operating furnaces using the same. 2,662,104, Dec. 8.
Spalding, Robert V., Salt Lake City, Utah. Combined clothesline reel and awning. 2,661,849, Dec. 8.
Spang & Company, assignee: *See*—
Spang, Ferdinand J.
Spang, Ferdinand J., assignor to Spang & Company, Butler, Pa. Forming cable tool drill bits. 2,661,636, Dec. 8.
Spang, Ferdinand J., assignor to Spang & Company, Butler, Pa. Integral bit, rope socket, and jar tool. 2,661,930, Dec. 8.
Sparke, Edward J.: *See*—
Stone, Eliot, Sparke, and Muldowney.
Sparks, Ralph, Pecos, Tex. Ore stratifying and concentrating means. 2,661,843, Dec. 8.
Spartan Tool Company, assignee: *See*—
Rudolph, Herbert H., and O'Brien.
Specialties Development Corporation, assignee: *See*—
Heizer, Edward J., and Warwick.
Stroop, John H.
Troy, Raymond A.
Speer, Douglas D., Marysville, Wash. Engine fuel tank filler. 2,661,886, Dec. 8.
Sperry Products, Inc., assignee: *See*—
Henry, Elliott A.
Spurlin, William V., Indiana, assignor to Syntron Company, Homer City, Pa. Article inverting feeding bowls. 2,661,833, Dec. 8.
Staal, Cornelis J. H. A., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., trustee. Multiplex transceiving arrangement. 2,662,117, Dec. 8.
Staal, Cornelis J. H. A., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Multiplex transmission device. 2,662,175, Dec. 8.
Stacy, Maurice W., Valparaiso, Ind., assignor to Standard Oil Company, Chicago, Ill. Briquetting asphalt compositions. 2,662,030, Dec. 8.
Stafford, Richard H., East Orange, N. J. Automatic gain control circuits for reducing amplitude variations. 2,662,125, Dec. 8.
Ståhlberg, Gösta E., Solna, Sweden, assignor to Societe d'Investigation & d'Exploitation de Brevets, Tangier, Morocco. Automatic control arrangement in central heating systems. 2,661,906, Dec. 8.
Staley, Austin L., Fox Chapel, assignor to Universal Lubricating Systems, Inc., Oakmont, Pa. Apparatus for making lubrication fittings. 2,662,152, Dec. 8.
Standard Duplicating Machines Corporation, assignee: *See*—
Ajam, Mustafa J., Paradis, and Bergman.
Standard Oil Company, assignee: *See*—
Hughes, Everett C., and Veatch.
Kuentzel, Ward E.
Stacy, Maurice W.
Standard Oil Development Company, assignee: *See*—
Brown, Herbert F., and Maass.
Clevenger, Oliver L., McElhannon, and Jones.
Crookston, Robert R., and Brown.
Gilcrease, John R., and Fuqua.
Novak, August W., and Mildrum.
Ramsey, George H.
Scharmann, Walter G.
Stone, Albert L.
Sumerford, Simpson D.
Stanley, Aubrey H., Clayton, and L. E. Maynard, Plainfield, Ind. Dolly for supporting tractor front wheels. 2,661,856, Dec. 8.
Stark, Dorothy, administratrix: *See*—
Stark, Nathan I.
Stark, Nathan I., deceased, West Orange, N. J.; D. Stark, administratrix. Bookholder. 2,661,568, Dec. 8.

Starks-Field, Alfred B., Chelmsford, assignor to Marconi's Wireless Telegraph Company Limited, London, England. Saw-tooth wave circuits. 2,662,198, Dec. 8.

Stastny, William, and P. Kostelancik, assignors to Lanzit Corrugated Box Company, Chicago, Ill. Box construction. 2,661,890, Dec. 8.

Steene, Annabelle: *See*—
Steene, Oscar H. and A.

Steene, Oscar H. and A., Twin Falls, Idaho. Sectional connected reading and recitation table. 2,661,988, Dec. 8.

Stern, Izydor, Antwerp, Belgium. Locking means for doors, in particular for automotive vehicles. 2,661,621, Dec. 8.

Stevenson, Glenn M., Long Beach, and W. F. McFarlane, Maywood, assignors to The Torrington Manufacturing Company—Western Division, Los Angeles, Calif. Blower wheel and supporting and driving means therefor. 2,661,894, Dec. 8.

Stibitz, George R., Burlington, Vt. Ganged circuit element. 2,662,148, Dec. 8.

Stipek, Johann F., Vienna, Austria. Projection of stereoscopic pictures. 2,661,651, Dec. 8.

Stokes, Benjamin E., Ayden, N. C. Wheel and axle assembly for tobacco truck chassis. 2,661,958, Dec. 8.

Stokes, Elise T., Greensboro, N. C. Facial up-lift band. 2,661,737, Dec. 8.

Stone, Albert L., Redondo Beach, Calif., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Pipe elevator. 2,661,979, Dec. 8.

Stone, Eliot, E. J. Sparke, and J. P. Muldowney, assignors to British Enka Limited, London, England. Yarn stretching device. 2,661,521, Dec 8.

Stone, Joseph K., Jr., Chicago, Ill., assignor to United States Steel Corporation. Device for progressively releasing a reagent in a bath of molten metal. 2,662,008, Dec. 8.

Story, Majorie G.: *See*—
Wolff, Heinz S., Story, and Behrens.

Streng, Jan, Ridgefield, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Electric dry shaver construction. 2,661,531, Dec. 8.

Stritter, Karl A., Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Covered sole member. 2,661,548, Dec. 8.

Strohm, Oscar W., Sharpsburg, assignor to Multi-Ring Brake Drum Corporation, Allison Park, Pa. Motor vehicle braking apparatus. 2,661,819, Dec. 8.

Stroop, John H., New York, N. Y., assignor to Specialties Development Corporation, Belleville, N. J. Combined seat and safety disk element for valves. 2,661,753, Dec. 8.

Stutz, Robert C., Buffalo, assignor to Niagara Blower Company, New York, N. Y. Liquid-to-liquid heat exchanger. 2,661,934, Dec. 8.

Süberkrüb, Franz A., Hamburg, Germany. Ship propulsion gear. 2,661,633, Dec. 8.

Sulich, John, Jr., Endicott, and J. E. Frederick, Johnson City, assignors to General Aniline & Film Corporation, New York, N. Y. Diazotype photoprinting material. 2,662,013, Dec. 8.

Sullivan, Milton A., assignor to American Enka Corporation, Enka, N. C. Filter. 2,661,845, Dec. 8.

Sumerford, Simpson D., Baton Rouge, La., assignor to Standard Oil Development Company. Resolving emulsions. 2,662,062, Dec. 8.

Sun Oil Company, assignee: *See*—
Dougherty, Patrick F., and Magill.
Henson, Robert L.

Sun Products Company, assignee: *See*—
Kampf, Friedrich, and Uthemann.

Sunbeam Corporation, assignee: *See*—
Jepson, Ivar.
Purpura, August C.

Sunderhauf, Frederick A., Summit, and J. C. O'Hear, Union, N. J. Embossing rolls. 2,662,002, Dec. 8.

Superior Oil Company, The, assignee: *See*—
Magor, Stuart F., and Daugherty.

Supreme Knitting Machine Co., Inc., assignee: *See*—
Mishcon, Samuel, and Agulnek.

Sutton, O. A., Corporation, Inc., The, assignee: *See*—
Jewell, Bernard W.

Swanson, George J.: *See*—
Hennessey, Walter F., Jr., and Swanson.

Swart, Kenneth H., assignor to Security Engineering Division, Whittier, Calif. Hydraulic rotary rock bit. 2,661,931, Dec. 8.

Sweger, Theodore J., assignor to Illinois Railway Equipment Company, Chicago, Ill. Retaining means for doors and the like. 2,661,973, Dec. 8.

Swenson, Oscar J., Crystal Lake, Ill. Ratchet type impact tool. 2,661,647, Dec. 8.

Sylvania Electric Products, Inc., assignee: *See*—
Gartner, Stanley J.
Mann, Oliver.

Syntron Company, assignee: *See*—
Spurlin, William Y.

Szaloki, Zoltan, Helmshore, Rossendale, assignor of one-half to Platt Brothers & Company Limited, Oldham, England. Apparatus for opening cotton and like fibrous material. 2,661,501, Dec. 8.

T. M. M. (Research) Limited, assignee: *See*—
Haythornthwaite, James J.

Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Rotor brake. 2,661,818, Dec. 8.

Tanasse, Arthur E., Sunnyside, Wash. Multiple batch drier. 2,661,544, Dec. 8.

Tapp, Harry F., Longmeadow, and R. M. Cochrane, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Sectional housing for electrical control and ignition apparatus of fluid fuel burners. 2,662,109, Dec. 8.

Tate, Samuel H., Lancaster, Pa. Seat pad for coats. 2,661,474, Dec. 8.

Taylor, Edwin P.: *See*—
Eastland, Cyril J., Taylor, and Collier.

Taylor, William H.: *See*—
Schneider, Paul L., Cromwell, and Taylor.

Technicon Chemical Company, Inc., assignee: *See*—
Ferrari, Andrés, Jr.

Technology Instrument Corporation, assignee: *See*—
Mairs, William J.

Teegardin, Lester A.: *See*—
Scheidt, Joseph, and Teegardin.

Teunissen, Pieter H., Arnhem, Netherlands, assignor to American Enka Corporation, Enka, N. C. Preparation of straw cellulose. 2,662,012, Dec. 8.

Texas Company, The, assignee: *See*—
Crumrine, Kenneth C., and Mazzagatti.
Gaucher, Leon P.
Herzog, Gerhard, and Lee.
Towne, Charles C.

Thew Shovel Company, The, assignee: *See*—
Johnson, Paul.

Thexton Manufacturing Company, assignee: *See*—
Worel, Glen J.

Thiébaud, Henri, Biel, Switzerland, assignor to The Gruen Watch Co., Cincinnati, Ohio. Watch movement having an automatic winding mechanism. 2,661,591, Dec. 8.

Thiele, Wolfgang E., assignor to A. C. J. Opfermann, Bergisch-Gladbach, Germany. Preparation of acetals. 2,662,099, Dec. 8.

Thiry, Leon F., Montclair, N. J. Flanged rubber joint. 2,661,969, Dec. 8.

Thom, Melvin A., Brighton, N. Y. Tensioning mechanism for winding machines. 2,661,914, Dec. 8.

Thomas, Joseph J., Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass. Mildew-resistant mineral-coated soap wrap. 2,662,040, Dec. 8.

Thomas, Thomas H., assignor to Bendix Aviation Corporation, South Bend, Ind. Power unit for hydraulic pressure systems. 2,661,598, Dec. 8.

Thomassen, Anker, Brooklyn, N. Y. Saw filing device. 2,661,635, Dec. 8.

Thompson, Eual C., Atlanta, Ga. Gear shift mechanism. 2,661,630, Dec. 8.

Thompson, James A.: *See*—
Fowler, William E., and Thompson.

Thompson Products, Inc., assignee: *See*—
Guy, Frederick M., and Herbenar.
Herbenar, Edward J.
Noon, T. Cyril, and Bayer.

Thorildsson, Karl-John T.: *See*—
Küller, Nils-Erik G., and Thorildsson.

Thorner, Robert H., Detroit, Mich. Engine governor. 2,661,728, Dec. 8.

Tichopad, Jaroslav: *See*—
Munz, Jarosav, and Tichopad.

Timken Roller Bearing Company, The, assignee: *See*—
Green, Walter F.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastener. 2,661,821, Dec. 8.

Tinnerman Products, Inc., assignee: *See*—
Tinnerman, George A.

Topanelian, Edward, Jr., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Hammer drill. 2,661,928, Dec. 8.

Torrington Manufacturing Company—Western Division, The, assignee: *See*—
Stevenson, Glenn M., and McFarlane.

Tortorice, Louis, Bristol, R. I. Bracket for valve fixtures. 2,661,483, Dec. 8.

Total, Henri, assignor to Societe Anonyme dite: Machines Automatiques Bardet, Paris, France. Mechanism for distributing slim articles. 2,661,830, Dec. 8.

Toulmin, Harry A., Jr., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Store arrangement with coin-operated dispensing means. 2,661,504, Dec. 8.

Towler, Frank H.: *See*—
Towler, John M. and F. H.

Towler, John M., Cumberland, and F. H. Towler, Otley, Yorks, assignors to Electraulic Presses Limited, Rodley, England. Axial type reciprocating pump, compressor, motor and engine. 2,661,700, Dec. 8.

Towne, Charles C., Beacon, assignor to The Texas Company, New York, N. Y. Oil compositions. 2,662,055, Dec. 8.

Tracy, Michael J., Robertson, Mo. Window structure. 2,661,506, Dec. 8.

Trask, Allen, Chicago, Ill. Vault conditioner with control means. 2,661,603, Dec. 8.

Trask, Allen, Chicago, Ill. Console air conditioner. 2,661,606, Dec. 8.

Trautvetter, George, Jenkintown, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Container. 2,661,872, Dec. 8.

Treff, Alfred, assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill. Holder for conically shaped cups. 2,661,610, Dec. 8.

Treiss, Herman G., Jr., New York, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Cigarette lighter. 2,661,617, Dec. 8.

Trico Products Corporation, assignee: *See*—
Oishei, John R.

Trimble, Charles H.: *See*—
Lubbert, Carl B., and Trimble.

Troll, William A., Brooklyn, assignor to Emsig Manufacturing Company, New York, N. Y. Feeding and orienting sewing hole buttons and machine therefor. 2,661,709, Dec. 8.

Troxel, Nellie, administratrix: *See*—
McLean, Harry C.

Troxel, Nellie I., assignee: *See*—
McLean, Harry C.

Troy, Raymond A., Palisades Park, assignor to Specialties Development Corporation, Belleville, N. J. Valve assembly. 2,661,765, Dec. 8.

Turner, Clarence P.: *See*—
Peebles, David D., and Turner.

Turner, Wylie E., Jr., assignee: *See*—
Welgandt, Carl F.

Tyndall, Joseph M., Columbus, Ind., and M. Maeser, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Apparatus for and methods of drying leather. 2,661,543, Dec. 8.

Uhas, Thomas R., San Antonio, Tex. Bowling ball grip. 2,661,951, Dec. 8.

Uhlig, Edwin C., Greenwood, and L. A. Murray, Jr., Cranston, R. I., assignors to United States Rubber Company, New York, N. Y. Making a battery separator. 2,662,032, Dec. 8.

Uhlig, Edwin C., Greenwood, and L. A. Murray, Jr., Cranston, R. I., assignors to United States Rubber Company, New York, N. Y. Battery separator. 2,662,106, Dec. 8.

Uhlig, Edwin C., Greenwood, and L. A. Murray, Jr., Cranston, R. I., assignors to United States Rubber Company, New York, N. Y. Battery separator. 2,662,107, Dec. 8.

Umberger, Jacob Q., Holmdel, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Intensifying silver photographic images. 2,662,014, Dec. 8.

Umphrey, Donald M., Palo Alto, Calif., assignor to Pacific Electric Manufacturing Corporation. Hydraulic circuit-breaker mechanism. 2,662,134, Dec. 8.

United Aircraft Corporation, assignee: *See*—
Schofield, Henry Z., and O'Bannon.

United Chromium, Incorporated, assignee: *See*—
Passal, Frank.

United Shoe Machinery Corporation, assignee: *See*—
Stritter, Karl A.
Tyndall, Joseph M., and Maeser.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Burns, William A., and Johnson.
Miller, William T.

United States Gypsum Company, assignee: *See*—
Nelsson, Nels.

United States Rubber Company, assignee: *See*—
Blaurock, Edward E.
Lubenow, Lewis W.
Uhlig, Edwin C., and Murray.

United States Steel Corporation, assignee: *See*—
Clyde, John A.
Fenstermaker, Lloyd H.
Kennedy, Truman H.
Lanstrom, Carl T., and Leaver.
McNutt, John W.
Montgomery, William G.
Stone, Joseph K., Jr.

Universal Lubricating Systems, Inc., assignee: *See*—
Staley, Austin L.

Upjohn Company, The, assignee: *See*—
Hanze, Arthur R.
Murray, Herbert C., and Peterson.

Uthemann, Wolfgang: *See*—
Kampf, Friedrich and Uthemann.

Vallorani, Ben J., Melrose Park, Ill., assignor to General Electric Company. Surface heating unit with improved hinge and ground connection. 2,662,157, Dec. 8.

Vallorani, Ben J., Melrose Park, and C. J. McConnell, Chicago, Ill., assignors to General Electric Company. Heating unit and making the same. 2,662,158, Dec. 8.

Vanderlyn, Philip B., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, England. Means for indicating the logarithmic value of a magnitude. 2,662,213, Dec. 8.

Van de Wiel, Alfred, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric circuit. 2,662,209, Dec. 8.

Van Doorn, Willem, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Alternating current rectifying installation. 2,662,199, Dec. 8.

Van Gelder, Zeger: *See*—
Six, Willem, Jonker, and Van Gelder.

Van Guilder, Walter, River Forest, Ill., assignor to General Mills, Inc. Combination cake pan and support. 2,661,679, Dec. 8.

Van Hofweegen, Johannes M., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit for frequency modulation of a local-oscillator oscillation. 2,662,215, Dec. 8.

Van Overbeek, Adrianus J. W. M., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit-arrangement for amplifying and separating signals of different frequencies. 2,662,128, Dec. 8.

Van Wageningen, Johan H., and J. Schreur, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Radio receiving circuit with reflex means. 2,662,173, Dec. 8.

Van Weljnsbergen, Charles L., Hilversum, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electrical rectifying system. 2,662,190, Dec. 8.

Veatch, Franklin: *See*—
Hughes, Everett C., and Veatch.

Vegren, Conrad R., Washington, D. C. Helical gas flow channel for solid propellants. 2,661,692, Dec. 8.

Vend-O-Matic Limited, assignee: *See*—
Munz, Jaroslav, and Tichopad.

Verd-A-Ray Processing Company, assignee: *See*—
Levi, Ormonde S.

Vietas, Frank: *See*—
Hyde, Ralph A., and Vietas.

Virkus, Robert M., Riverside, and M. L. Anthony, La Grange, Ill. Constant speed direct current motor. 2,662,205, Dec. 8.

Vogel, Max R., and G. D. La Barre, Easton, and W. M. Perry, Bethlehem, assignors to Binney and Smith Company, Easton, Pa. Artists' water-color paints. 2,662,031, Dec. 8.

Vogt, Rudolph B., Cincinnati, Ohio, and J. F. Keville, Pomona, Calif., assignors to The E. W. Buschman Company, Cincinnati, Ohio. Conveyer system. 2,661,828, Dec. 8.

Voigt, Herbert L.: *See*—
Siczkiewicz, Joseph, Jr., and Voigt.

Voss, Emil C. Davenport, Iowa. Seed hopper valve operating mechanism. 2,661,956, Dec. 8.

Waddill, Paul M., Bartlesville, and F. C. Fowler, Norman, Okla., assignors to Phillips Petroleum Company. Effective catalytic conversion of hydrocarbons. 2,662,003, Dec. 8.

Wallace, George H., Oak Park, Ill., assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Comparing and assorting device for pairs of punch cards. 2,661,841, Dec. 8.

Wallace, R., & Sons Manufacturing Company, assignee: *See*—
Hall, Rolland G.

Ward, Nathan L., Reynolds, Ind. Drill guide. 2,661,638, Dec. 8.

Warner & Swasey Company, The, assignee: *See*—
Longstreet, James R.

Warren, S. D., Company, assignee: *See*—
Thomas, Joseph J.

Warwick, John: *See*—
Heizer, Edward J., and Warwick.

Washburn, Harold W.: *See*—
Robinson, Leland P., Washburn, and Hirschberg.

Watkins, Thomas I.: *See*—
Short, Wallace F., Peak, and Watkins.

Watson Elevator Company, Inc., assignee: *See*—
Fribance, Austin E., and Jarvis.

Webster Electric Company, assignee: *See*—
Campbell, Richard H.
Jensen, Clarence F.

Wefco Inc., assignee: *See*—
Winslow, Willis M.

Weigandt, Carl F., Oakville, Tenn., assignor of 49 per cent to W. E. Turner, Jr., Piggott, Ark. Fishing lure. 2,661,564, Dec. 8.

Welland, Herbert P., Verona, Wis. Surgical table. 2,661,989, Dec. 8.

Welch, Nicholas A., West Hartford, and W. J. Zelgenhein, assignors to The American Hardware Corporation, New Britain, Conn. Lock. 2,661,977, Dec. 8.

Wells, Winston, assignor to Canadian Radium & Uranium Corporation, New York, N. Y. Radioactive detector means in automatic steering systems. 2,662,208, Dec. 8.

Wendt, Delbert O., Bonner Springs, Kans. Apparatus for treating animals. 2,661,865, Dec. 8.

Westerhouse, Louis M., Birmingham, Ala. Can opener and household utility. 2,661,527, Dec. 8.

Western Condensing Company, assignee: *See*—
Peebles, David D., and Turner.

Western Electric Company, Incorporated, assignee: *See*—
Gruen, Ernest J.
Lubbert, Carl B., and Trimble.

Western Union Telegraph Company, The, assignee: *See*—
Buckingham, William D.

Westinghouse Electric Corporation, assignee: *See*—
Hewitt, George W., and Lagarias.

Weyandt, Carl S., Homer City, Pa. Axial electromagnetic motor with oppositely facing pole faces. 2,662,192, Dec. 8.

Weyandt, Carl S., Indiana, Pa. Double-acting circular reciprocating electromagnetic motor. 2,662, 193, Dec. 8.

Weyerhaeuser, Frederick, St. Paul., assignor, by mesne assignments, to Rock Island Millwork Company, Rock Island, Ill. Built-up wood panel. 2,661,511, Dec. 8.
Wheel Aligning Necessities, Inc., assignee: *See*—
Castiglia, Thomas.
White, Frederick: *See*—
Railton, Denis E., and White.
Whitman, Gerald M., New Castle, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of cyclohexene. 2,662,102, Dec. 8.
Whitman, Stephen F., & Son, Inc., assignee: *See*—
Flanagan, James R.
Wilbur, Lawrence S., assignor to Flexible Metals Corporation, Chicago, Ill. Resilient cushioning device. 2,661,942, Dec. 8.
Wilbur, Lawrence S., assignor to Flexible Metals Corporation, Chicago, Ill. Resilient cushioning device. 2,661,943, Dec. 8.
Wilentchik, Jerzy, New York, N. Y. Varifunction potentiometer. 2,662,147, Dec. 8.
Wilentchik, Jerzy J., New York, N. Y. Varifunction potentiometer. 2,662,144, Dec. 8.
Wilentchik, Jerzy J., New York, N. Y. Characteristic changer. 2,662,145, Dec. 8.
Wilentchik, Jerzy J., New York, N. Y. Voltage and position control system. 2,662,146, Dec. 8.
Wilentchik, Jerzy J., New York, N. Y. Characteristic changer and linear potentiometer. 2,662,149, Dec. 8.
Wiley, Allen D., assignor to Armco Steel Corporation, Middletown, Ohio. Control of arc operation. 2,662,201, Dec. 8.
Willard, Carl L., assignor to Willard Concrete Machinery Co., Ltd., Lynwood, Calif. Single motor transit concrete mixer. 2,661,935, Dec. 8.
Willard Concrete Machinery Co., Ltd., assignee: *See*—
Willard, Carl L.
Wilmer, Rudolph H., assignor to The General Fireproofing Company, Youngstown, Ohio. Friction drawer retainer. 2,661,997, Dec. 8.
Wilson, Edward M., assignor to Henry Hope & Sons Limited, Birmingham, England. Conveying means for articles to be treated in a galvanizing bath. 2,661,717, Dec. 8.
Wilt, Melvin C., Hinsdale, assignor to Curtis Lighting, Inc., Chicago, Ill. Canopy holder. 2,661,924, Dec. 8.
Winslow, Willis M., Wheatridge, assignor to Wefco Inc., Denver, Colo. Field controlled hydraulic device. 2,661,596, Dec. 8.
Winslow, Willis M., Wheatridge, assignor to Wefco Inc., Denver, Colo. High fidelity slip control. 2,661,825, Dec. 8.
Winsten, Walter A., Forest Hills, N. Y. Stable vitamin B_{12}-containing composition. 2,662,048, Dec. 8.
Winters, Russell H., assignor to The Larsen Company, Green Bay, Wis. Filling containers. 2,662,017, Dec. 8.
Wisco, Inc., assignee: *See*—
Wisok, Robert S.
Wisok, Robert S., assignor to Wisco, Inc., Detroit, Mich. Door corner. 2,661,822, Dec. 8.
Wissmiller, Vernon D., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus for steam heating systems. 2,661,907, Dec. 8.
Witzel, Frank: *See*—
Merz, Paul L., Witzel, and Burhans.
Wolf, Cecil R., Rock Falls, assignor to Frantz Manufacturing Co., Sterling, Ill. Overhead door structure. 2,661,799, Dec. 8.
Wolff, Heinz S., Oxford, and M. G. Story, and D. J. Behrens, Strand, London, assignors to The National Research Development Corporation, London, England. Apparatus for counting microscopic particles. 2,661,902, Dec. 8.
Wolff, Paul H. W.: *See*—
Hughes, John O. P., and Wolff.
Wolford, Charles E., Seattle, Wash., assignor of 50 per cent to E. Faulkner, Farmington, Mo. Blind drape and curtain rod holder. 2,661,922, Dec. 8.
Wood, Gar, Industries, Incorporated, assignee: *See*—
Dale, Elmer O.
Wood, William H., Jr., Seymour, Conn. Magnetic drilling and tapping alignment jig. 2,661,641, Dec. 8.
Woods, Henry B., assignor to Hughes Tool Company, Houston, Tex. Roller cutter bit with fluid flushed bearings. 2,661,932, Dec. 8.
Woodworth, Willard A.: *See*—
Farr, Richard S., and Woodworth.
Worel, Glen J., Robbinsdale, assignor to Thexton Manufacturing Company, Minneapolis, Minn. Signaling system for indicating inefficient vacuum conditions in automotive engines. 2,661,713, Dec. 8.
Yalick, John: *See*—
Yalick, Stephen and J.
Yalick, Stephen and J., Dallas, Pa. Portable and adjustable packing table. 2,661,887, Dec. 8.
Yates, Richard C., assignor to Binghamton Metal Forms, Inc., Binghamton, N. Y. Form for concrete and the like. 2,661,516, Dec. 8.
Young, James F., Bridgeport, Conn., assignor to General Electric Company. Washing machine and vibration damping means therefor. 2,661,620, Dec. 8.
Zehnder, Herman F., Bay City, Mich. Garbage can cover lock. 2,661,974, Dec. 8.
Zelgenhein, William J.: *See*—
Welch, Nicholas A., and Zelgenhein.
Zenith Radio Corporation, assignee: *See*—
Bridges, Jack E.
Zimov, Erwin D., Cincinnati, Ohio. Infant's bath. 2,661,482, Dec. 8.
Zoll, Carl M., assignor to Hydro Power, Inc., New Orleans, La. Duplicating milling machine. 2,661,661, Dec. 8.
Zwikker, Cornelis, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Apparatus for transmitting and receiving light signals. 2,662,169, Dec. 8.

LIST OF PLANT INVENTIONS

Rose plant. W. E. Pinchbeck. 1,232, Dec. 8.

LIST OF DESIGN INVENTIONS

Aquarium. H. V. Lee. 171,037, Dec. 8.
Asphalt patching plant. J. S. Wylie. 171,071, Dec. 8.
Atomizer or similar article. "D" F. Bacheller. 171,023, Dec. 8.
Birdbath and solarium for growing plants, Combined. A. S. Anderson. 171,020, Dec. 8.
Board, Ship's course. T. Rudder. 171,053, Dec. 8.
Box, Telescopic cigarette. M. Sachar. 171,054, Dec. 8.
Brooch or similar article. R. Semensohn. 171,058, Dec. 8.
Brooch or similar article. R. Semensohn. 171,060–1, Dec. 8.
Buckle, Safety belt. W. M. Noe. 171,045, Dec. 8.
Cabinet, Toothbrush. G. J. Coleman. 171,029, Dec. 8.
Chain for a necklace or similar article, Link. M. Chernow. 171,028, Dec. 8.
Chain for a necklace or the like, Link. A. Katz. 171,036, Dec. 8.
Chain for a wristband or similar article, Expansible link. A. Pinson. 171,046–7, Dec. 8.
Chain, Link. M. Chernow. 171,027, Dec. 8.
Decorative device; Illuminable. L. B. Johnson. 171,035, Dec. 8.
Earring or similar article. R. Semensohn. 171,059, Dec. 8.
Exhaust pipe jettison. N. D. Armstrong and C. L. Anderson. 171,022, Dec. 8.
Fabric, Woven textile. S. Bogdanovich. 171,026, Dec. 8.
Fire extinguisher. E. P. Van Sciver. 171,066, Dec. 8.
Fishing lure or similar article. R. A. Lord. 171,040, Dec. 8.
Fishing plug. E. W. Smith. 171,062, Dec. 8.
Game board. N. F. Randall. 171,048, Dec. 8.
Game board. D. C. Waldecker. 171,069, Dec. 8.
Glove, Driver's. L. V. Starek. 171,063, Dec. 8.
Gravy boat or the like. M. Rosen. 171,050, Dec. 8.
Handbag. S. J. Aberman. 171,019, Dec. 8.
Holder and cutter, Combined roll paper. E. Waltz. 171,070, Dec. 8.
Horn ring extension. R. J. Morgan. 171,044, Dec. 8.
Lamp, Candle. W. F. Meara. 171,041, Dec. 8.
Lamp, Planter. E. E. Mecus. 171,042, Dec. 8.
Lamp, Table. A. Arch. 171,021, Dec. 8.
Lamp, Table. W. Rosenthal. 171,051, Dec. 8.
Lighting fixture, Surgical. E. H. Greppin. 171,034, Dec. 8.
Microphone. B. E. Schell, Jr. 171,055, Dec. 8.
Pair of eyeglasses or similar article. E. Schiaparelli. 171,056, Dec. 8.
Pair of spectacles. G. Courtney. 171,030, Dec. 8.
Plaque. C. A. Blondeel. 171,024, Dec. 8.
Rack or the like, Display. L. W. Gordon. 171,033, Dec. 8.
Rug. A. T. Taraborelli. 171,064, Dec. 8.
Scale, Platform. F. Wagner. 171,067–8, Dec. 8.
Server and tongs therefor, Combined food. L. Levine. 171,038, Dec. 8.
Shaker, Combined salt and pepper. J. P. Moore. 171,043, Dec. 8.
Slicing aid. R. V. Loeb. 171,039, Dec. 8.
Spectacle frame. N. K., G. Rosser. 171,052, Dec. 8.
Spoon or similar article. M. P. Fleming. 171,031, Dec. 8.
Staple driving machine. F. W. Schmidt. 171,057, Dec. 8.
Stereoscopic viewer. C. L. Romrell. 171,049, Dec. 8.
Tool, Combination pocket. I. Bochory. 171,025, Dec. 8.
Trailer, House. R. Goettsche. 171,032, Dec. 8.
Tray, Serving. C. C. Towns. 171,065, Dec. 8.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasion and corrosion resistant white cast iron. A. P. Gagnebin and L. L. Seigle. 2,662,011, Dec. 8.
Accelerator controlled vehicle warning light. J. T. Crowe and C. E. Seaberg. 2,662,132, Dec. 8.
Acetals, Preparation of. W. E. Thiele. 2,662,099, Dec. 8.
Actuating the door locks of motor cars, Means for. J. H. Orr. 2,661,976, Dec. 8.
Adapter for uncoilers. C. T. Lanstrom and J. E. Leaver. 2,661,911, Dec. 8.
Adhesive composition comprising a urea-aldehyde resin and tetrahydrofurfuryl alcohol. L. E. Clark, Jr., and C. F. MacLagan. 2,662,066, Dec. 8.
Adjusting mechanism for master copies on duplicating machines and the like. M. J. Ajam, J. R. Paradis, and C. A. Bergman. 2,661,688, Dec. 8.
Air conditioner, Console. A. Trask. 2,661,606, Dec. 8.
Air conditioning unit and apparatus for shipping. B. W. Jewell. 2,661,836, Dec. 8.
Aircraft door lock. H. E. Michael. 2,661,975, Dec. 8.
Air duct, Insulated. L. E. Butler and F. J. Siemers. 2,661,769, Dec. 8.
Air line lubricator. C. A. Norgren, K. C. Mosier, R. D. Bowdey, and N. A. Metzger. 2,661,814, Dec. 8.
Airplane landing gear. G. W. Bryan. 2,661,916, Dec. 8.
Air precleaner, Self-cleaning. S. C. Heth. 2,661,810, Dec. 8.
Air speed indicating device. P. F. Bechberger and J. E. Bevins. 2,661,624, Dec. 8.
Alternating current rectifying installation. W. van Doorn. 2,662,199, Dec. 8.
Amplifier system for neutron detectors, Voltage stabilizing. K. C. Crumrine and R. P. Mazzagatti. 2,662,188, Dec. 8.
Amplifier, Tunable high-frequency push-pull power. D. Boterweg, S. Breimer, and A. G. Robeer. 2,662,127, Dec. 8.
Amplitude discriminating noise reducing means. H. Rinia. 2,662,174, Dec. 8.
Amusement and target practicing device. J. C. Kocl. 2,661,954, Dec. 8.
Analogue, Electrical. G. Herzog and B. D. Lee. 2,661,897, Dec. 8.
Anchor davit. G. P. Evans. 2,661,711, Dec. 8.
Anchor, Lading tie. M. S. Johnson. 2,661,704, Dec. 8.
Anchor means, Pipe. M. S. Johnson and H. E. Ray. 2,661,919, Dec. 8.
Angler's fly box. L. H. Jackson. 2,661,565, Dec. 8.
Apparatus and method for surfacing glass sheets and plates. P. T. Martin. 2,661,581, Dec. 8.
Apparatus for and methods of drying leather. J. M. Tyndall and M. Maeser. 2,661,543, Dec. 8.
Apparatus for charging liquid products and volatile propellants into pressure containers. D. M. McBean. 2,661,885, Dec. 8.
Apparatus for continuously filtering solids from gases. K. Kautz. 2,661,811, Dec. 8.
Apparatus for counting microscopic particles. H. S. Wolff, M. G. Story, and D. J. Behrens. 2,661,902, Dec. 8.
Apparatus for fluffing slag. T. H. Kennedy. 2,661,575, Dec. 8.
Apparatus for magazining articles. C. B. Lubbert and C. H. Trimble. 2,661,866, Dec. 8.
Apparatus for maintaining predetermined atmospheric conditions in compartments. R. S. Farr and W. A. Woodworth. 2,661,676, Dec. 8.
Apparatus for making lubrication fittings. A. L. Staley. 2,662,152, Dec. 8.
Apparatus for measuring backlash in gears. A. I. Bean. 2,661,542, Dec. 8.
Apparatus for molding. E. E. Blaurock. 2,661,498, Dec. 8.
Apparatus for opening cotton and like fibrous material. Z. Szaloki. 2,661,501, Dec. 8.
Apparatus for printing continuous designs on roll paper and the like. W. B. Chance. 2,661,687, Dec. 8.
Apparatus for pulping papermaking material. W. V. Knoll. 2,661,666, Dec. 8.
Apparatus for refining papermaking material. W. V. Knoll. 2,661,667, Dec. 8.
Apparatus for the fluid treatment of fibers and the like. R. H. Helle. 2,661,619, Dec. 8.
Apparatus for transmitting and receiving light signals. C. Zwikker. 2,662,169, Dec. 8.
Apparatus for treating animals. D. O. Wendt. 2,661,865, Dec. 8.
Arrangement for recording variations in the electrical resistance of the human body. W. Holzer and A. Marko. 2,661,734, Dec. 8.
Artificial eye and controlling apparatus. E. P. Rosen and E. H. Erickson. 2,661,480, Dec. 8.
Atomizer, Centrifugal. D. D. Peebles and C. P. Turner. 2,661,984, Dec. 8.
Attaching thread for glass bowls. J. L. Edelen. 2,661,966, Dec. 8.
Attachment for twist drills. M. Marcucci. 2,661,642, Dec. 8.
Attachment of decorative balls between parallel tube elements of furniture. J. A. Kolbe. 2,661,968, Dec. 8.
Automatic-frequency control apparatus for maintaining a predetermined-frequency difference between two waves. E. H. Hugenholtz. 2,662,181, Dec. 8.
Automatic machine for milling the ends of handles or the like. R. G. Hall. 2,661,662, Dec. 8.
Automatic store. C. Saunders. 2,661,682, Dec. 8.
Auxiliary drain plug. W. J. Albert. 2,661,860, Dec. 8.
Avoiding curl in machine-made paper, Process and apparatus for. V. Friedrich, Jr. 2,661,669, Dec. 8.
Backflow preventer for water hydrants. G. E. Hansen. 2,661,759, Dec. 8.
Bag: *See*—
Comparted traveling bag. Fountain syringe bag.
Bag and handle. G. D. King. 2,661,892, Dec. 8.
Ball grip, Bowling. T. R. Uhas. 2,661,951, Dec. 8.
Bandage. R. Caskey, Jr. 2,661,739, Dec. 8.
Bandage, Pressure. E. Gamber and H. Freiberger. 2,661,776, Dec. 8.
Bark peeler having pivoted jaws spread by fluid pressure. R. E. Burton. 2,661,782, Dec. 8.
Barking or cleaning apparatus, Hydraulic. H. A. Simons. 2,661,781, Dec. 8.
Base, Mast mounting. R. B. Riggs. 2,661,918, Dec. 8.
Bath, Infant's. E. D. Zimov. 2,661,482, Dec. 8.
Battery separator. E. C. Uhlig and L. A. Murray, Jr. 2,662,106–7, Dec. 8.
Battery separator, Making a. E. C. Uhlig and L. A. Murray, Jr. 2,662,032, Dec. 8.
Beater mechanism for treating papermaking material. W. V. Knoll. 2,661,665, Dec. 8.
Bed, Sofa. M. Gursky. 2,661,485, Dec. 8.
Belt construction, Safety. P. E. Sidlinger. 2,661,888, Dec. 8.
Belt dressing and cutting device. E. J. Lomazzo and L. E. Maquat. 2,661,579, Dec. 8.
Bending machine. W. Peddinghaus and E. Funke. 2,661,786, Dec. 8.
Bending machine, Rod. R. M. Eidal. 2,661,787, Dec. 8.
Binocular observation instrument. J. W. French. 2,661,657, Dec. 8.
Bis-(substituted phenyl)-thioureas. C. F. Huebner, R. H. Mizzoni, R. P. Mull, and C. R. Scholz. 2,662,096, Dec. 8.
Bit: *See*—
Hydraulic rotary rock bit.
Blind drape and curtain rod holder. C. E. Wolford. 2,661,922, Dec. 8.
Blower wheel and supporting and driving means therefor. G. M. Stevenson and W. F. McFarlane. 2,661,894, Dec. 8.
Bobbin, Doubled bushed center core. L. F. Burlein. 2,661,912, Dec. 8.
Bolster supporting spring group and stabilizing means. K. M. Hamilton. 2,661,944, Dec. 8.
Bolt anchor with spring rotation preventing means. R. K. Skinner. 2,661,649, Dec. 8.
Bonding press. R. R. Keller. 2,661,789, Dec. 8.
Bookholder. N. I. Stark. 2,661,568, Dec. 8.
Book holder and desk top. W. J. Bargen. 2,661,569, Dec. 8.
Bottle top, Dispensing. B. J. Christeck and L. Z. Plebanek. 2,661,867, Dec. 8.
Bowls, Article inverting feeding. W. V. Spurlin. 2,661,833, Dec. 8.
Box: *See*—
Angler's fly box.
Box construction. W. Stastny and P. Kostelancik. 2,661,890, Dec. 8.
Bracket: *See*—
Double curtain or drapery rod bracket.
Bracket for valve fixtures. L. Tortorice. 2,661,483, Dec. 8.
Brake: *See*—
Rotor brake.
Brake control system, Conveyer belt. R. M. Buckeridge. 2,661,832, Dec. 8.

Brake drum, Laminated. A. C. De Yo. 2,661,820, Dec. 8.
Brake for band saws, Automatic magnetic. J. P. Morgan. 2,661,780, Dec. 8.
Braking apparatus, Motor vehicle. O. W. Strohm. 2,661,819, Dec. 8.
Bricks, Furnace. F. O. Keltz. 2,662,021, Dec. 8.
Briquetting asphalt compositions. M. W. Stacy. 2,662,030, Dec. 8.
Broadcast seeder and fertilizer spreader, Combined. D. L. Sherer. 2,661,955, Dec. 8.
Brush. R. O. Peterson. 2,661,491, Dec. 8.
Brush and mechanism for making same. J. B. Benyak. 2,661,490, Dec. 8.
Building structures, including panels, Thermally insulated. M. Clements. 2,662,043, Dec. 8.
Burner having pneumatic secondary air control, Oil. C. Shorrock. 2,661,794, Dec. 8.
Cabinet and filler structure therefor, Sectional. H. G. Knuth. 2,661,994, Dec. 8.
Cable tension compensating and regulating apparatus. G. B. Myers. 2,661,631, Dec. 8.
Cable tensioning device for a windshield cleaner installation. J. R. Olshei. 2,661,492, Dec. 8.
Cake pan and support, Combination. W. Van Guilder. 2,661,679, Dec. 8.
Calculator, Electronic. B. J. Chromy and P. H. Allen. 2,661,899, Dec. 8.
Calculator, Mileage. E. W. Pastorius. 2,661,900, Dec. 8.
Cam follower for machine tools, Quick return. W. F. Green. 2,661,637, Dec. 8.
Canopy holder. M. C. Wilt. 2,661,924, Dec. 8.
Capsule-filling device with capsule hopper feed. G. B. Lawrence and J. A. Huberman. 2,661,884, Dec. 8.
Carburetor, Concentric. M. J. Kittler. 2,661,937, Dec. 8.
Carriage, Two-wheeled child's. J. Bell. 2,661,959, Dec. 8.
Carrier for cartons and the like, Transporting. R. E. Lee and C. A. Benden. 2,661,879, Dec. 8.
Carton. E. V. Arranga and A. J. Malley. 2,661,891, Dec. 8.
Case: *See*—
Display case. Stitched case.
Roll up map case. Soap case.
Catalyst composition. D. C. Cristain and R. M. Reed. 2,662,063, Dec. 8.
Catalytic conversion of hydrocarbons. J. W. Moorman and L. J. Kelly. 2,662,050, Dec. 8.
Catapult with improved fork and sling. A. B. Casey. 2,661,731, Dec. 8.
Cementitious compositions. W. C. Riddell and G. B. Kirk. 2,662,024, Dec. 8.
Centrifugal pump. C. A. Schellens. 2,661,698, Dec. 8.
Chain: *See*—
Cutter chain.
Characteristic changer. J. J. Wilentchik. 2,662,145, Dec. 8.
Characteristic changer and linear potentiometer. J. J. Wilentchik. 2,662,149, Dec. 8.
Chart drive mechanism. J. McGay and G. E. Nicholson. 2,661,815, Dec. 8.
Check writing interpreter. E. Buhler. 2,661,684, Dec. 8.
Chewing gum base. P. L. Merz, F. Witzel, and A. S. Burhans. 2,662,016, Dec. 8.
Chloralimine-N-sulfonates. J. Kamlet. 2,662,094, Dec. 8.
Chlorinated copper phthalocyanine, Preparation of. H. Holtzman and E. Simon. 2,662,085, Dec. 8.
Chopping device, Comestible. J. J. Berles. 2,661,535, Dec. 8.
Chute for trough hoists, Retractable. G. A. Jorgenson. 2,661,855, Dec. 8.
Circuit: *See*—
Electric circuit. Transistor amplifier circuit.
Line-finder stopping circuit. Voltage generating circuit.
Circuit arrangement comprising at least one switch for the control of at least one lead. J. L. H. Jonker. 2,662,176, Dec. 8.
Circuit-arrangement for amplifying and separating signals of different frequencies. A. J. W. M. van Overbeek. 2,662,128, Dec. 8.
Circuit-arrangement for receiving and detecting frequency modulated oscillations. G. Hepp. 2,662,179, Dec. 8.
Circuit element, Ganged. G. R. Stibitz. 2,662,148, Dec. 8.
Circuit for frequency modulation of a local-oscillator oscillation. J. M. van Hofweegen. 2,662,215, Dec. 8.
Circuit interrupter. S. I. Lindell and C. H. Baker. 2,662,139, Dec. 8.
Circuit interrupter housing. S. I. Lindell and C. H. Baker. 2,662,138, Dec. 8.
Circuit with automatic volume control and noise suppressing means, Radio receiving. W. W. Boelens. 2,662,170, Dec. 8.
Circuit with reflex means, Radio receiving. J. H. van Wageningen and J. Schreur. 2,662,173, Dec. 8.
Circuits for reducing amplitude variations, Automatic gain control. R. H. Stafford. 2,662,125, Dec. 8.
Circuits, Saw-tooth wave. A. B. Starks-Field. 2,662,198, Dec. 8.
Circuits, Seismographic amplifier mixing. R. L. Henson. 2,662,126, Dec. 8.
Clamp: *See*—
Quick attachable or removable surface clamp. Trolley wire clamp.
Clamping device for electronic discharge devices. O. E. Saari. 2,662,220, Dec. 8.
Cleaning and sealing machine, Egg. H. C. McLean. 2,661,715, Dec. 8.
Cleaning refining equipment. P. F. Dougherty and L. G. Magill. 2,662,041–2, Dec. 8.
Clip: *See*—
Resilient fastening clip.
Clock, Master. R. B. Johnson and E. F. Geiger. 2,661,590, Dec. 8.
Closet, Toilet. E. Goodfield. 2,661,481, Dec. 8.
Closure assembly for containers. H. B. Howe. 2,661,862, Dec. 8.
Closure for containers. H. B. Howe. 2,661,863, Dec. 8.
Clothesline reel and awning, Combined. R. V. Spalding. 2,661,849, Dec. 8.
Clutch. D. E. Hendrickson, E. B. Royle, and D. M. Schwartz. 2,661,826, Dec. 8.
Coated fabrics. A. R. Morrison and R. F. Shannon. 2,662,044, Dec. 8.
Coating material, Refractory vitreous ceramic. H. Z. Schofield and L. S. O'Bannon. 2,662,020, Dec. 8.
Coaxial-line switch. J. A. Nelson. 2,662,142, Dec. 8.
Collapsible boring tool. J. A. Clyde. 2,661,639, Dec. 8.
Combined shut-in and back circulation tool. M. O. Johnston. 2,661,802, Dec. 8.
Combing machine, Wool. L. P. Miller. 2,661,502, Dec. 8.
Comparing and assorting device for pairs of punch cards. G. H. Wallace. 2,661,841, Dec. 8.
Comparted traveling bag. L. Nelson, Jr. 2,661,824, Dec. 8.
Concentrated arc lamp. W. D. Buckingham. 2,662,196, Dec. 8.
Concentration of phosphate ores. J. B. Duke and W. M. Houston. 2,661,842, Dec. 8.
Concrete form. J. R. Findley. 2,661,517, Dec. 8.
Concrete mold molding process. H. L. Carlson. 2,661,518, Dec. 8.
Condensation process. F. H. Baldwin. 2,662,097, Dec. 8.
Condenser for pin drafters, Rectangular. J. R. Longstreet. 2,661,503, Dec. 8.
Connector for plastic pipe, Hose. L. R. Nelson. 2,661,962, Dec. 8.
Connector for pressure gauges, Protective. C. R. A. Grant. 2,661,625, Dec. 8.
Connector having a grommet and means to axially and radially compress the same, Electrical. W. F. Hennessey and G. J. Swanson. 2,662,219, Dec. 8.
Constant speed direct current motor. R. M. Virkus and M. L. Anthony. 2,662,205, Dec. 8.
Container: *See*—
Fluid container. Multiple liquid dispensing container.
Multiple container. container.
Container. G. Trautvetter. 2,661,872, Dec. 8.
Conainer closure. E. C. Oldenburg. 2,661,861, Dec. 8.
Continuously variable resistor. W. J. Mairs. 2,662,150, Dec. 8.
Control apparatus for dividing fluid flow mechanisms. H. A. Lines. 2,661,757, Dec. 8.
Control apparatus for steam heating systems. V. D. Wissmiller. 2,661,907, Dec. 8.
Control arrangement in central heating systems, Automatic. G. E. Ståhlberg. 2,661,906, Dec. 8.
Control device for fluid compressors. J. Le Valley. 2,661,893, Dec. 8.
Control for propeller governor having delayed propeller speed regulation. P. T. Nims and B. C. Jacob, Jr. 2,661,806, Dec. 8.
Control of arc operation. A. D. Wiley. 2,662,201, Dec. 8.
Control system for oil well pumps. M. V. Long and F. C. Schneider. 2,661,697, Dec. 8.
Control system suitable for automatic coffee makers. A. C. Purpura. 2,662,160, Dec. 8.
Controlling a dredging operation, Method and apparatus for. O. W. Graham. 2,661,550, Dec. 8.
Conversion of heavy hydrocarbons. H. L. Pelzer. 2,6662,051, Dec. 8.
Convertible apparatus for use in care of infants and for other purposes. R. Laufer. 2,661,791, Dec. 8.
Conveyer loading station. K. McCann and R. F. Lo Presti. 2,661,829, Dec. 8.
Conveyer, Shaker. E. R. Bergmann. 2,661,834, Dec. 8.
Conveyer system. R. B. Vogt and J. F. Keville. 2,661,828, Dec. 8.
Conveying means for articles to be treated in a galvanizing bath. E. M. Wilson. 2,661,717, Dec. 8.
Cooler: *See*—
Evaporative cooler. Milk cooler.
Cooler for condensing hot compressed gas, Evaporative. C. N. Deverall. 2,661,933, Dec. 8.
Cooling unit for rabbit hutches. A. A. Ruport. 2,661,718, Dec. 8.
Copolymerizing $CF_2=CF_2$ with $CF_2=CFCL$. W. T. Miller. 2,662,072, Dec. 8.
Copper complexes of monosulfonamido formazyl dyes. R. A. Brooks. 2,662,074–5, Dec. 8.
Copy retention and housing ventilating means for opaque projector apparatus. P. M. Field. 2,661,655, Dec. 8.
Core blower. R. N. Brewer. 2,661,513, Dec. 8.
Counter, Navigation. F. P. Goldbach. 2,661,903, Dec. 8.

Counter to indicate the number of times a shaft is moved. H. W. Miller and B. A. Buss. 2,661,901, Dec. 8.
Counting device. H. Bud. 2,661,904, Dec. 8.
Coupling apparatus, Car. J. V. Berry. 2,661,851, Dec. 8.
Covered sole member. K. A. Stritter. 2,661,548, Dec. 8.
Crane, Portable. W. G. Adams. 2,661,854, Dec. 8.
Crating system for sheet material or the like. J. W. McCracken. 2,661,837–8, Dec. 8.
Cup construction. L. A. Revell. 2,661,609, Dec. 8.
Cup, Thermal coffee. D. E. Phinney. 2,661,889, Dec. 8.
Curtain Rod. W. E. Fowler and J. A. Thompson. 2,661,850, Dec. 8.
Cushioning device, Resilient. L. S. Wilbur. 2,661,942–3, Dec. 8.
Cutter: *See*—
Hair cutter.
Cutter bit with fluid flushed bearings, Roller. H. B. Woods. 2,661,932, Dec. 8.
Cutter chain. L. G. Rollins. 2,661,940, Dec. 8.
Cycloalkyl esters of basically substituted isocyclylcarbamic acids and their salts. J. W. Cusic. 2,662,092, Dec. 8.
Cyclonexene, Preparation of. G. M. Whitman. 2,662,102, Dec. 8.
Dairy container sediment trap. P. Kolbet. 2,661,844, Dec. 8.
Damper, Aircraft landing wheel shimmy. B. E. O'Connor. 2,661,915, Dec. 8.
Damper, Aircraft landing wheel shimmy. B. E. O'Connor and B. Fuente. 2,661,917, Dec. 8.
Damper for furnace flues. W. P. Osgood. 2,661,905, Dec. 5.
Damping means for yarn tension compensating devices. E. J. Heizer and J. Warwick. 2,661,913, Dec. 8.
Decorative wall surfacing material. G. H. Mead. 2,662,064, Dec. 8.
Defroster for refrigerator evaporators. D. J. Lanker. 2,661,602, Dec. 8.
Deicer for electrical transmission lines, Automatic. J. H. Potter. 2,662,156, Dec. 8.
Deicer, Windshield wiper. W. J. Cochran. 2,662,154, Dec. 8.
Denture teeth, Nonanatomic posterior. I. L. Cook. 2,661,536, Dec. 8.
Derivatives of hexahydropyrimidine and converting the same to 1,3-diamines, Producing. C. W. Smith. 2,662,080, Dec. 8.
Derrick, Underwater drilling. G. R. Hopkins. 2,661,600, Dec. 8.
Device for cleaning pipe threads. R. R. Crookston and S. C. Brown. 2,661,494, Dec. 8.
Device for heating and shaping or altering the parts of an ophthalmic mounting. W. B. Heath. 2,661,645, Dec. 8.
Device for maintaining the tension in the warp threads of a loom uniform. G. W. Kretzschmar. 2,661,774, Dec. 8.
Device for measuring the discharge voltage of galvanic cells. A. Marko and K. Kordesch. 2,662,211, Dec. 8.
Device for progressively releasing a reagent in a bath of molten metal. J. K. Stone, Jr. 2,662,008, Dec. 8.
Device for shape-turning and for the production of hollow shapes and turned parts by means of a rotating cutting tool on machine tools. A. Rüegg. 2,661,640, Dec. 8.
Device for treatment of the muscles of the upper torso. W. J. Browner. 2,661,744, Dec. 8.
Dial construction for circular rib-type knitting machines. S. Mishcon and H. Aguinek. 2,661,613, Dec. 8.
Diazotype photoprinting material. J. Sulich, Jr. and J. E. Frederick. 2,662,013, Dec. 8.
Dicyandiamide-urea-formaldehyde impregnating agents, Producing. E. Elöd. 2,662,071, Dec. 8.
Dimethyl-phosphoric acid amide and its production. R. M. Isham. 2,662,095, Dec. 8.
Disconnect switch. H. F. Burmeister. 2,662,133, Dec. 8.
Dishwasher, Under-counter. J. W. McNairy. 2,661,750, Dec. 8.
Dispenser: *See*—
Sterile brush dispenser.
Dispensing means for fountain brushes. H. W. Appell. 2,661,874, Dec. 8.
Display card, Greeting. G. J. and B. Klein. 2,661,559, Dec. 8.
Display case. F. S., H. C. R., and N. F. W. Holderle. 2,661,996, Dec. 8.
Display device, Picture. S. G. Malby. 2,661,560, Dec. 8.
Doffing mechanism for ring spinning, doubling, and twisting machines. J. J. Haythornthwaite. 2,661,589, Dec. 8.
Doll, Changeable feature. E. W. Baggott. 2,661,572, Dec. 8.
Dolly for supporting tractor front wheels. A. H. Stanley and L. E. Maynard. 2,661,856, Dec. 8.
Door corner. R. S. Wisok. 2,661,822, Dec. 8.
Door operator, Electric. W. Hamilton. 2,661,945, Dec. 8.
Door structure, Overhead. C. R. Wolf. 2,661,799, Dec. 8.
Double-acting circular reciprocating electromagnetic motor. C. S. Weyandt. 2,662,193, Dec. 8.
Double curtain or drapery rod bracket. H. Meiners. 2,661,923, Dec. 8.
Drawer retainer, Friction. R. H. Wilmer. 2,661,997, Dec. 8.
Drier: *See*—
Multiple batch drier.
Drier. W. Messinger. 2,661,545, Dec. 8.
Drill: *See*—
Hammer drill.
Drill guide. N. L. Ward. 2,661,638, Dec. 8.
Drilling and tanging machine. H. J. Houck and R. M. Morgan. 2,661,523, Dec. 8.
Drilling and tapping alignment jig, Magnetic. W. H. Wood, Jr. 2,661,641, Dec. 8.
Drive mechanism, Intermittently-variable. M. F. Campbell. 2,661,953, Dec. 8.
Drying machine conveyer and transfer mechanism. L. G. Kenney. 2,661,831, Dec. 8.
Dump gate. F. Murray. 2,661,875, Dec. 8.
Duplicating machine. C. A. Levin and R. W. Quirk. 2,661,686, Dec. 8.
Dynamoelectric machine. A. Fisher and J. K. Newell. 2,662,195, Dec. 8.
Effective catalytic conversion of hydrocarbons. P. M. Waddill and F. C. Fowler. 2,662,003, Dec. 8.
Electric circuit. A. van de Wiel. 2,662,209, Dec. 8.
Electric eddy current furnace. L. Dreyfus. 2,662,161, Dec. 8.
Electric marking method, apparatus, and carrier for facsimile systems and the like. L. Pessel. 2,661,998, Dec. 8.
Electric vibration pick-up. J. Severs. 2,661,622, Dec. 8.
Electrical rectifying system. C. L. van Weijnsbergen. 2,662,190, Dec. 8.
Electrode housing for elongated tubular lamps and terminal contact therefor. S. C. Miller. 2,662,218, Dec. 8.
Electrodepositing chromium directly on aluminum. F. Passal. 2,662,054, Dec. 8.
Electronic code-typewriter system. N. G. A. Dorfman. 2,662,112, Dec. 8.
Electronic relay control. J. Holmes. 2,662,155, Dec. 8.
Electrostatic machine. P. Okey. 2,662,191, Dec. 8.
Electrostatic precipitator. G. W. Hewitt and J. S. Lagarias. 2,661,809, Dec. 8.
Elevator, Brine tank. T. C. Schenk. 2,661,751, Dec. 8.
Elevator control system. A. E. Frifance and T. F. Jarvis. 2,662,204, Dec. 8.
Elevator, Pipe. A. L. Stone. 2,661,979, Dec. 8.
Elevator, Pit-type electric. H. J. Hulsart. 2,661,816, Dec. 8.
Embossing rolls. F. A. Sunderhauf and J. C. O'Hear. 2,662,002, Dec. 2.
Engine: *See*—
Hydraulic drive internal-combustion engine.
Internal-combustion engine.
Engine. W. W. Smith. 2,661,699, Dec. 8.
Engine governor. R. H. Thorner. 2,661,728, Dec. 8.
Engine starter control. W. E. Brown. 2,662,189, Dec. 8.
Engine starter control apparatus. P. L. Schneider, H. J. Cromwell, and W. H. Taylor. 2,661,730, Dec. 8.
Equipment for treating teeth by means of finely powdered materials carried by a stream of gas. R. C. Angell. 2,661,537, Dec. 8.
Evaporative cooler. J. A. De Vilbiss. 2,661,936, Dec. 8.
Evaporator, Oil burner. G. C. Kemp. 2,661,797, Dec. 8.
Exhaust head. O. Mann. 2,661,964, Dec. 8.
Expansion joint. H. F. Brown and R. H. Maass. 2,661,963, Dec. 8.
Extrusion apparatus. J. N. Birmingham. 2,661,497, Dec. 8.
Fabric take-up mechanism for textile machines. P. J. Schoenster and M. E. Ebert. 2,661,614, Dec. 8.
Facial up-lift band. E. T. Stokes. 2,661,737, Dec. 8.
Fan, Power driven air circulating. E. J. Frick. 2,661,895, Dec. 8.
Fastener. G. A. Tinnerman. 2,661,821, Dec. 8.
Fastener strip. L. M. Rabinowitz. 2,661,478, Dec. 8.
Feed and current supply apparatus for consumable electrodes and operating furnaces using the same. R. L. Southern. 2,662,104, Dec. 8.
Feeder: *See*—
Hog feeder.
Feeding and orienting sewing hole buttons and machine therefor. W. A. Troll. 2,661,709, Dec. 8.
Feeding device, Animal. F. B. Reichenbach. 2,661,800, Dec. 8.
Field controlled hydraulic device. W. M. Winslow. 2,661,596, Dec. 8.
Fifth wheel plate, Pivotally mounted. J. P. K. Fontaine. 2,661,960, Dec. 8.
Filing device, Saw. A. Thomassen. 2,661,635, Dec. 8.
Filler structure for kitchen cabinets. H. G. Knuth. 2,661,995, Dec. 8.
Filling and venting means for electric batteries. A. Coates. 2,662,108, Dec. 8.
Filling containers. R. H. Winters. 2,662,017, Dec. 8.
Film strip advancing mechanism for projectors. L. R. Bangsbergh. 2,661,656, Dec. 8.
Filter: *See*—
Multiple-neck filter.
Filter. G. A. Lash and E. B. Chamberlin. 2,661,846, Dec. 8.
Filter. M. A. Sullivan. 2,661,845, Dec. 8.
Filter and indicator, Brake system. A. J. C. Buettner. 2,661,847, Dec. 8.
Filter construction, Oil. W. A. Gerhart. 2,661,848, Dec. 8.
Filter network, Electric. J. F. Klinkhamer. 2,662,216, Dec. 8.
Fin tubing, Making. E. Bruegger. 2,661,526, Dec. 8.

Fire extinguisher discharge head. W. M. Haessler. 2,661,804, Dec. 8.
Fire extinguisher sprinkler head. P. Lim. 2,661,805, Dec. 8.
Fishing lure. C. F. Weigandt. 2,661,564, Dec. 8.
Fishing rod holder. G. D. Adams, Jr., and H. L. Humphries. 2,661,563, Dec. 8.
Flanged rubber joint. L. F. Thiry. 2,661,969, Dec. 8.
Flare stack, pilot burner, and pilot igniter. O. L. Clevenger, W. A. McElhannon, and W. W. Jones. 2,661,798, Dec. 8.
Flashing unit assembly for photographic exposure equipment. I. Jacobson, C. F. Brundage, and M. B. Moore. 2,661,671, Dec. 8.
Flashlight, Multicolored electric. H. B. Mitchell. 2,662,224, Dec. 8.
Flow control apparatus. T. C. Noon and F. C. Bayer. 2,661,756, Dec. 8.
Fluid container. H. M. Archer. 2,661,743, Dec. 8.
Fluid pressure gauge. A. R. Moffett. 2,661,626, Dec. 8.
Fluid pressure motor. G. Alfieri. 2,661,726, Dec. 8.
Fluid pressure regulator. F. Niesemann. 2,661,578, Dec. 8.
Fluid seal. W. F. Mitchell. 2,661,967, Dec. 8.
Folding and creasing device. F. J. Reynolds. 2,661,947, Dec. 8.
Football shoe with attachment for kicking. R. A. Hyde and F. Vietas. 2,661,547, Dec. 8.
Foot operated toilet seat lifter. J. Jung. 2,661,484, Dec. 8.
Form cutting tool. J. W. Leighton. 2,661,524, Dec. 8.
Form for concrete and the like. R. C. Yates. 2,661,516, Dec. 8.
Formation tester sample chamber assembly. G. H. Ramsey. 2,661,803, Dec. 8.
Forming cable tool drill bits. F. J. Spang. 2,661,636, Dec. 8.
Fountain syringe bag. H. Puckman. 2,661,741, Dec. 8.
14 alpha-hydroxy-androstene-diones and process. H. C. Murray and D. H. Peterson. 2,662,089, Dec. 8.
Frame: *See*—
Register frame.
Frozen food indicator. C. L. Smith. 2,662,018, Dec. 8.
Fruit picking apparatus. G. E. Bullock. 2,661,587, Dec. 8.
Fuel feeding apparatus. N. M. Reiners. 2,661,729, Dec. 8.
Fuel production, Gaseous. L. P. Evans. 2,662,005, Dec. 8.
Fuel pump diaphragm mounting. W. Lamb. 2,661,767, Dec. 8.
Fuel tank filler, Engine. D. D. Speer. 2,661,886, Dec. 8.
Furnace: *See*—
Electric eddy current furnace.
High-frequency furnace.
Furnace charging apparatus. R. Gordon. 2,661,853, Dec. 8.
Furniture, Sectional. R. A. Little. 2,661,993, Dec. 8.
Fuse, Cartridge. L. Detch. 2,662,141, Dec. 8.
Fuse, Supercurrent. F. J. Kozacka. 2,662,140, Dec. 8.
Garbage can cover lock. H. F. Zehnder. 2,661,974, Dec. 8.
Garbage can support. S. Brustein. 2,661,921, Dec. 8.
Garbage disposal apparatus. K. M. Hammell. 2,661,909, Dec. 8.
Garment, Breast pad holding. E. N. Day. 2,661,470, Dec. 8.
Garment, Child's overall. M. L. Miles. 2,661,473, Dec. 8.
Garment construction. G. F. Miller. 2,661,472, Dec. 8.
Garment, Maternity. P. Auslender. 2,661,475, Dec. 8.
Gas igniter. A. Racek and J. Raganitsch. 2,661,616, Dec. 8.
Gas manufacture. S. C. Eastwood. 2,662,006, Dec. 8.
Gas regulator. C. W. Hart. 2,661,601, Dec. 8.
Gas replacement of metal sulfides. E. S. Roberts, P. J. McGauley, and F. A. Schaufelberger. 2,662,009, Dec. 8.
Gas stove control panel. D. P. O'Keefe. 2,661,732, Dec. 8.
Gasification of powdered caking type coal. N. L. Dickinson. 2,662,007, Dec. 8.
Gate: *See*—
Dump gate.
Hopper and power actuated discharge gate.
Multiple movement gate.
Gate control system, Highway crossing. J. C. Lindner. 2,662,167, Dec. 8.
Gate mechanism for bottle dispensing containers. L. M. Harris. 2,661,992, Dec. 8.
Gate opening and closing means. A. F. Hoppe. 2,661,555, Dec. 8.
Gate operating mechanism, Automatic. W. L. Enghauser. 2,661,556, Dec. 8.
Gauge: *See*—
Fluid pressure gauge.
Helically-coiled hole gauge.
Hole gauge.
Pulsating type tire gauge.
Ultrasonic gauge.
Gauge unit. H. J. Lovenston. 2,661,539, Dec. 8.
Gear: *See*—
Airplane landing gear.
Power transmission gear.
Ship propulsion gear.
Gear shift mechanism. E. C. Thompson. 2,661,630, Dec. 8.
Generation of electric oscillation. H. B. R. Boosman. 2,662,182, Dec. 8.
Generator: *See*—
Saw tooth voltage generator.
Generator, turbine, and compressors, Coaxial combustion products. J. A. Petrie. 2,661,594, Dec. 8.
Germicide seed treating apparatus. A. O. Siren. 2,661,868, Dec. 8.
Girdle. P. Blatt. 2,661,469, Dec. 8.
Glove. E. L. Bobbitt. 2,661,476, Dec. 8.
Gluconamides. C. L. Mehltretter and J. C. Rankin. 2,662,073, Dec. 8.
Glue, Cottonseed meal. J. C. Arthur, Jr. and J. T. Hogan. 2,662,023, Dec. 8.
Goggle valve. G. Hookham. 2,661,770–1, Dec. 8.
Golf club, Double-faced. C. W. Jackson. 2,661,952, Dec. 8.
Grading articles by size, Means for. S. Ballard, Jr. and P. Renold. 2,661,840, Dec. 8.
Grapple. T. Lauro. 2,661,978, Dec. 8.
Hair cutter. F. D. Infantino. 2,661,529, Dec. 8.
Haloalkyl substituted cycloheptatrien-1-ol-2-one ring compounds and their preparation. E. G. Howard, Jr. 2,662,098, Dec. 8.
Hammer drill. E. Topanelian, Jr. 2,661,928, Dec. 8.
Handbag, Insulated. H. Daust. 2,661,785, Dec. 8.
Handling candies, Means for. J. R. Flanagan. 2,661,706, Dec. 8.
Hanger: *See*—
Resiliently mounted shaft hanger.
Hanger assembly, Resiliently mounted shaft. E. J. Herbenar. 2,661,987, Dec. 8.
Hanger construction, Shaft. F. M. Guy and E. J. Herbenar. 2,661,985, Dec. 8.
Harp, Lamp. K. Berger. 2,662,166, Dec. 8.
Harrow or plow, One-way disk. R. W. Fyke. 2,661,675, Dec. 8.
Harvester, Corn. N. R. Krause and S. C. Heth. 2,661,586, Dec. 8.
Harvester, Field forage. C. W. Hansen. 2,661,585, Dec. 8.
Heat exchanger, Liquid-to-liquid. R. C. Stutz. 2,661,934, Dec. 8.
Heating unit and making the same. B. J. Vallorani and C. J. McConnell. 2,662,158, Dec. 8.
Heating unit with improved hinge and ground connection, Surface. B. J. Vallorani. 2,662,157, Dec. 8.
Heel guard, Plastic. E. Lindner and M. Muller. 2,661,549, Dec. 8.
Helical gas flow channel for solid propellants. C. R. Vegren. 2,661,692, Dec. 8.
Helically-coiled hole gauge. J. H. Dulligan. 2,661,541, Dec. 8.
Hermetic seal for coke oven doors. W. T. Brown. 2,662,053, Dec. 8.
Heterocyclic polymethylene-bis-quaternary ammonium salts and preparing same. C. J. Eastland, E. P. Taylor, and H. O. J. Collier. 2,662,083, Dec. 8.
High fidelity slip control. W. M. Winslow. 2,661,825, Dec. 8.
High-frequency furnace. L. Blok. 2,662,162, Dec. 8.
High speed trip device for electric circuit breakers. M. Kuwayama. 2,662,136, Dec. 8.
Hinge, Double-acting gravity. K. Kalleberg. 2,661,495, Dec. 8.
Hog feeder. M. L. Rysdon and R. C. Moyer. 2,661,720, Dec. 8.
Hold-down apparatus for industrial trucks. J. W. McNutt. 2,661,857, Dec. 8.
Holder: *See*—
Blind drape and curtain rod holder.
Canopy holder.
Fishing rod holder.
Salt block holder.
Holder. M. A. Racho. 2,661,748, Dec. 8.
Holder assembly for the propellent charges in rocket motors. N.-E. G. Küller and K.-J. T. Thorildsson. 2,661,595, Dec. 8.
Holder for conically shaped cups. A. Treff. 2,661,610, Dec. 8.
Holder unit for alloy gauges and the like. H. M. Siptrott. 2,661,873, Dec. 8.
Holding means for projectile fins. E. C. M. d'A. Fonseca. 2,661,689, Dec. 8.
Hole gauge. J. H. Dulligan. 2,661,540, Dec. 8.
Hopper and power actuated discharge gate. H. V. Kindseth. 2,661,876, Dec. 8.
Hose connector for plastic pipe. L. R. Nelson. 2,661,962, Dec. 8.
Hosiery drying form. W. H. Albertson and R. L. Mittelstadt. 2,661,877, Dec. 8.
Hyaluronic acid nitrates and the production thereof. Z. Hadidian and N. W. Pirie. 2,662,078, Dec. 8.
Hyaluronidase inhibitors and the production thereof. Z. Hadidian and N. W. Pirie. 2,662,076, Dec. 8.
Hydraulic apparatus. C. E. Adams. 2,661,766, Dec. 8.
Hydraulic circuit-breaker mechanism. D. M. Umphrey. 2,662,134, Dec. 8.
Hydraulic control device. S. H. Edge. 2,661,597, Dec. 8.
Hydraulic control means for engine fuel systems. K. R. Davies and K. Herbstritt. 2,661,796, Dec. 8.
Hydraulic drive internal-combustion engine. C. B. Bright. 2,661,592, Dec. 8.
Hydraulic pitch control device for propellers. S. A. Fielding. 2,661,807, Dec. 8.
Hydraulic power actuator. T. Sherwen. 2,661,721, Dec. 8.
Hydraulic power unit and internal-combustion engine with clutch drive therebetween operated from the oil circuit of such engines. E. O. Dale. 2,661,696, Dec. 8.
Hydraulic rotary rock bit. K. H. Swart. 2,661,931, Dec. 8.

Hydrocarbon synthesis. W. G. Scharmann. 2,662,090, Dec. 8.
Hydrodynamic machine, Axial type. W. Ferris. 2,661,701, Dec. 8.
Hydrolytic condensation product of dichlorodipropyl sulfide in aqueous hydrogen chloride and condensation product resulting therefrom, Preparing. E. C. Hughes and F. Veatch. 2,662,086, Dec. 8.
Ignition distributor and coil unit. M. G. Bales. 2,662,105, Dec. 8.
Ignition system. B. H. Short. 2,662,202, Dec. 8.
Illuminating means for musical score supporting devices. A. E. Murray. 2,662,164, Dec. 8.
Implement holding device. B. F. Gochenour. 2,661,920, Dec. 8.
Impregnating an oxide coating on aluminum and resulting article. R. B. Mason and W. C. Cochran. 2,662,034, Dec. 8.
Improved shortening and cake composition. W. C. Griffin. 2,662,015, Dec. 8.
Indicating the logarithmic value of a magnitude, Means for. P. B. Vanderlyn. 2,662,213, Dec. 8.
Indicator: *See*—
Frozen food indicator.
Insect electrocuting appliance. E. Sokolik. 2,661,566, Dec. 8.
Insect killer with fire preventing means, Electrical. E. Kretschmar. 2,661,512, Dec. 8.
Insecticide package. J. A. Okie. 2,661,981, Dec. 8.
Integral bit, rope socket, and jar tool. F. J. Spang. 2,661,930, Dec. 8.
Intensifying silver photographic images. J. Q. Umberger. 2,662,014, Dec. 8.
Intercommunicating apparatus. R. H. Campbell. 2,662,115, Dec. 8.
Internal-combustion engine. M. Cousin. 2,661,727, Dec. 8.
Iron: *See*—
Abrasion and corrosion resistant white cast iron.
Ironing board and iron support, Foldable. E. E. Foster. 2,661,553, Dec. 8.
Jig for drilling key lewis slots. F. E. Aspelin. 2,661,929, Dec. 8.
Joint: *See*—
Expansion joint. Flanged rubber joint.
Joint, Making. J. M. Baggott. 2,662,045, Dec. 8.
Key opertaed switch. C. G. Cerna and J. A. Arevalo. 2,662,131, Dec. 8.
Knitting machine, Hand. M. and J. Negri. 2,661,611, Dec. 8.
Label, Making a. C. M. Andrew. 2,662,033, Dec. 8.
Lamp: *See*—
Concentrated arc lamp.
Lamp housing with grommeted lead-in holding means. I. Fiori. 2,662,110, Dec. 8.
Land mine. A. F. M. Diels. 2,661,690, Dec. 8.
Latch: *See*—
Reversible dead latch. Storm window latch.
Latching mechanism. A. Reymann. 2,661,971, Dec. 8.
Latex stabilizer dispersions, Preparation of. J. R. Gilcrease and M. C. Fuqua. 2,662,061, Dec. 8.
Leaf gathering, comminuting, and redistributing machine, Mobile. J. A. Ronning. 2,661,584, Dec. 8.
Lifeboat, Manual power screw propelled. A. P. Horn. 2,661,712, Dec. 8.
Lifter: *See*—
Foot operated toilet seat lifter. Portable load lifter.
Light: *See*—
Accelerator controlled vehicle warning light.
Lighter, Cigarette. H. G. Treiss, Jr. 2,661,617, Dec. 8.
Lighting fixture and curtain holder, Combination. W. J. Molliner. 2,662,163, Dec. 8.
Lighting system and luminaires for use therein, Yard and street. K. Franck. 2,662,165, Dec. 8.
Line-finder stopping circuit. R. B. Buchner. 2,662,119, Dec. 8.
Linear polyester resins. P. Kass. 2,662,069, Dec. 8.
Linoleum paste and making same. L. L. Keene. 2,662,025, Dec. 8.
Loading machine, Automatic part. C. S. Kasper. 2,661,881, Dec. 8.
Lock: *See*—
Aircraft door lock. Garbage can cover lock.
Lock. N. A. Welch and W. J. Zelgenhein. 2,661,977, Dec. 8.
Lock for firearms, Safety. R. L. Magaro. 2,661,561, Dec. 8.
Lock for looms, Shuttle. J. Chapman, Sr. and R. N. Reynolds, Sr. 2,661,775, Dec. 8.
Locking means for doors, in particular for automotive vehicles. I. Stern. 2,661,621, Dec. 8.
Locking means for lines, Pivoted. V. Martin. 2,661,514, Dec. 8.
Locking means for pivotal joints. S. W. Alderson. 2,661,479, Dec. 8.
Log-dogging and taper-setting apparatus, Combination. W. G. Saunders. 2,661,779, Dec. 8.
Lower alkanoic acid esters of hyaluronic acid and the production thereof. Z. Hadidian and N. W. Pirie. 2,662,077, Dec. 8.
Lubricating compositions. P. R. McCarthy. 2,662,056–7, Dec. 8.
Lubricating compositions. P. R. McCarthy. 2,662,059, Dec. 8.
Lubricating means for tube mills. J. E. Kennedy. 2,661,813, Dec. 8.
Lubricator: *See*—
Air line lubricator.
Machine for applying glue to sheet material. R. Minkow. 2,661,716, Dec. 8.
Machine for holding and sealing coaxially supported parts. S. J. Gartner. 2,661,576, Dec. 8.
Machine for knitting shaggy fabrics. H. E. Crawford. 2,661,612, Dec. 8.
Machine for making pleated metal foil capsules. D. E. Railton and F. White. 2,661,670, Dec. 8.
Machine for making tubular containers. C. E. Slaughter. 2,661,790, Dec. 8.
Machine for wrapping garment hangers. H. M. and R. M. Simmons. 2,661,583, Dec. 8.
Magnetic head. J. R. Anderson. 2,662,120, Dec. 8.
Making finned tubes, Method and apparatus for. R. C. Edwards. 2,661,525, Dec. 8.
Mass spectrometry. C. E. Berry. 2,662,184, Dec. 8.
Mass spectrometry. L. P. Robinson, H. W. Washburn, and W. J. Hirschberg. 2,662,185, Dec. 8.
Measuring device suitable for diagnostic purposes. N. H. Polsky. 2,661,733, Dec. 8.
Measuring visibility. S. Q. Duntley. 2,661,650, Dec. 8.
Mechanism for distributing slim articles. H. Total. 2,661,830, Dec. 8.
Memorandum attachment for telephones. G. D. Mohundro. 2,661,961, Dec. 8.
Method and device for welding wires on metal bodies. U. Günther. 2,662,153, Dec. 8.
Method and machine for interleaving and stacking sheets of paper and similar materials. L. J. Chambon. 2,661,946, Dec. 8.
Mildew-resistant mineral-coated soap wrap. J. J. Thomas. 2,662,040, Dec. 8.
Milk cooler. R. Markley. 2,661,607, Dec. 8.
Mill addition agent for enamel slips. W. M. Fenton. 2,662,028, Dec. 8.
Milling machine, Duplicating. C. M. Zoll. 2,661,661, Dec. 8.
Mixer: *See*—
Single motor transit concrete mixer.
Mold making composition. F. W. Less, E. C. Roeck, and J. C. Searer. 2,662,067, Dec. 8.
Monomeric glycol terephthalates, Preparing. H. R. Billica. 2,662,093, Dec. 8.
Motion-picture apparatus and method. M. E. Evans. 2,661,652, Dec. 8.
Motor: *See*— Fluid pressure motor.
Constant speed direct current motor.
Double-acting circular reciprocating electromagnetic motor.
Motor for shavers and the like, Electric. I. Jepson. 2,662,194, Dec. 8.
Motor mounting for vertically adjusted saws, Self-adjusting. E. J. Hitchcock. 2,661,777, Dec. 8.
Motor with oppositely facing pole faces, Axial electromagnetic. C. S. Weyandt. 2,662,192, Dec. 8.
Mounting: *See*—
Fuel pump diaphragm mounting.
Mounting medium for microscope slides and securing the cover glasses therefor. A. Ferrari, Jr. 2,661,659, Dec. 8.
Mounting of gas turbine units. J. O. P. Hughes and P. H. W. Wolff. 2,661,593, Dec. 8.
Mud gun. W. H. Endsley. 2,661,983, Dec. 8.
Multiple batch drier. A. E. Tanasse. 2,661,544, Dec. 8.
Multiple container. P. Hauduroy. 2,661,742, Dec. 8.
Multiple liquid dispensing container. A. G. Huenergardt. 2,661,870–1, Dec. 8.
Multiple movement gate. A. Reymann. 2,661,557, Dec. 8.
Multiple-neck filter. W. van B. Roberts. 2,662,217, Dec. 8.
Multiple position fluid pressure actuated apparatus. H. A. Bienkie. 2,661,724, Dec. 8.
Multiplex transceiving arrangement. C. J. H. A. Staal. 2,662,117, Dec. 8.
N-carboanhydrides of alpha amino acids, Preparation of. R. N. MacDonald. 2,662,084, Dec. 8.
Needle saver stop motion. A. Crawford and M. Antonevich. 2,661,615, Dec. 8.
Objective comprising three lens members axially air separated from each other in optical alignment. L. Bertele. 2,661,660, Dec. 8.
Obtaining dispersions of polyfluoroethylenes. K. L. Berry. 2,662,065, Dec. 8.
Oil changer. L. R. Simpson. 2,661,869, Dec. 8.
Oil compositions. C. C. Towne. 2,662,055, Dec. 8.
Opener and household utility, Can. L. M. Westerhouse. 2,661,527, Dec. 8.
Opener, Can. G. H. Coplen. 2,661,528, Dec. 8.
Optical projection leveling device. T. Castiglia. 2,661,653, Dec. 8.
Optical system. A. J. Kavanagh. 2,662,187, Dec. 8.
Optical system for increasing the working distances of microscope objectives. J. Dyson. 2,661,658, Dec. 8.
Ore stratifying and concentrating means. R. Sparks. 2,661,843, Dec. 8.

Organic solvent gels. D. E. Floyd. 2,662,968, Dec. 8.
Organometallic compounds. E. A. H. Friedheim. 2,662,079, Dec. 8.
Orifice plate for threaded orifice, Indicating. A. W. Novak and R. F. Mildrum. 2,661,768, Dec. 8.
Oscillator cancellation frequency converter. E. A. Henry. 2,662,172, Dec. 8.
Oscillator, Frequency-modulated. E. H. Hugenholtz. 2,662,214, Dec. 8.
Package cushioning and sealing means. R. V. Grishaber. 2,661,835, Dec. 8.
Packing apparatus. M. E. Francisco. 2,661,882, Dec. 8.
Packing apparatus, Automatic. M. E. Francisco. 2,661,883, Dec. 8.
Paint receptacle. C. G. Howell. 2,661,858, Dec. 8.
Paints, Artists' water-color. M. R. Vogel, G. D. La Barre, and W. M. Perry. 2,662,031, Dec. 8.
Panel, Built-up wood. F. Weyerhaeuser. 2,661,511, Dec. 8.
Panning machine, Bread. H. C. Rhodes. 2,661,880, Dec. 8.
Paper cutting means with a suction applying device. L. Littman. 2,661,801, Dec. 8.
Paper machinery. J. Baxter, Jr. 2,661,664, Dec. 8.
Paper machinery. L. W. Petry and J. Baxter, Jr. 2,661,546, Dec. 8.
Paraffin wax having low electrical conductivity and coating glass therewith. K. N. Mathes and T. J. Rasmussen. 2,662,029, Dec. 8.
Paraffins, Production of. M. P. Matuszak. 2,662,103, Dec. 8.
Parenteral amino acid solution. E. E. Howe. 2,662,046, Dec. 8.
Patch holding device. A. Janssens. 2,661,878, Dec. 8.
Percussion device for land mines. A. F. M. Diels. 2,661,693, Dec. 8.
Petroleum lubricating jelly. P. R. McCarthy. 2,662,058, Dec. 8.
Phase compensating means for alternating current lines. H. Forssell. 2,662,210, Dec. 8.
Phase shift oscillating system. J. E. Bridges. 2,662,183, Dec. 8.
Phenanthridine compounds. W. F. Short, D. A. Peak, and T. I. Watkins. 2,662,082, Dec. 8.
Photochemical reactor, Two-stage. L. J. Governale, A. B. Horn, Jr., and H. E. O'Connell. 2,662,186, Dec. 8.
Pin or bolt, Pivot. W. R. Petersen. 2,661,970, Dec. 8.
Pipe bending and straightening machine. P. W. Esslinger. 2,661,788, Dec. 8.
Pipe cleaning apparatus. H. H. Rudolph and J. V. O'Brien. 2,661,489, Dec. 8.
Pipe jointing composition. R. B. Seymour and W. R. Pascoe. 2,662,019, Dec. 8.
Pipe joints, Making. R. B. Seymour and W. R. Pascoe. 2,661,500, Dec. 8.
Piston enlarging machine. H. M. Olson. 2,661,643, Dec. 8.
Plant package, Potted. A. S. Ritter. 2,661,574, Dec. 8.
Planting machine, Sod. H. V. Pittman. 2,661,708, Dec. 8.
Plate design for pulse columns. W. A. Burns and W. F. Johnson. 2,662,001, Dec. 8.
Pliers, Watchmaker's. V. A. Norvill. 2,661,646, Dec. 8.
Plow, Motor. G. A. Branson. 2,661,673, Dec. 8.
Plug: *See*—
Auxiliary drain plug.
Plug and socket connector, Separable. S. Minneci and E. J. De Noyers. 2,662,222, Dec. 8.
Plug-in relay. H. E. Seaton. 2,662,135, Dec. 8.
Polychromatic coating compositions. R. E. Pike. 2,662,027, Dec. 8.
Polyester resins, Quick curing. P. Kass and B. W. Lew. 2,662,070, Dec. 8.
Portable and adjustable packing table. S. and J. Yalick. 2,661,887, Dec. 8.
Portable load lifter. H. J. Hulsart. 2,661,927, Dec. 8.
Potentiometer, Varifunction. J. J. Wilentchik. 2,662,144, Dec. 8.
Potentiometer, Varifunction. J. Wilentchik. 2,662,147, Dec. 8.
Power transmission gear. T. Hindmarch. 2,661,628, Dec. 8.
Power unit for hydraulic pressure systems. T. H. Thomas. 2,661,598, Dec. 8.
Preparing synthesis gas at elevated pressures. L. P. Gaucher. 2,662,004, Dec. 8.
Press: *See*—
Bonding press.
Pressure changer for gas regulators, Automatic. T. A. Hanson. 2,661,577, Dec. 8.
Pressure cooker relief device. M. H. Graham. 2,661,864, Dec. 8.
Pressure differential responsive device. R. R. Donaldson, Jr. 2,661,754, Dec. 8.
Printing machine, Card controlled. H. H. Keen. 2,661,685, Dec. 8.
Printing mechanism, High speed. H. S. Beattie. 2,661,683, Dec. 8.
Projectile. E. W. Brandt. 2,661,691, Dec. 8.
Projection apparatus for projecting spots of light simulating stars upon a surface. F. D. Korkosz. 2,661,654, Dec. 8.
Projection of stereoscopic pictures. J. F. Stipek. 2,661,651, Dec. 8.
Projector with color disk, Folded Schmidt television. T. E. Poliakoff. 2,662,111, Dec. 8.
Promoting chemical reactions, Process and means of. W. W. Odell. 2,662,091, Dec. 8.
Protected switch. H. W. Eckles. 2,662,143, Dec. 8.
Protective attachment for women's undergarment. E. M. Neumayer. 2,661,471, Dec. 8.
Protective device. W. C. Anderson. 2,661,551, Dec. 8.
Pulp storage tank current control. E. J. Gruen. 2,661,668, Dec. 8.
Pulsating type tire gauge. E. O. Anderson. 2,661,760, Dec. 8.
Pulse-code modulation communication system. J. F. Schouten and F. de Jager. 2,662,113, Dec. 8.
Pulse modulation system for transmitting the change in the applied wave-form. J. F. Schouten, F. de Jager and J. A. Greefkes. 2,662,118, Dec. 8.
Pulse transmission, Double modulated. G. X. Potier. 2,662,116, Dec. 8.
Pump: *See*—
Centrifugal pump. Submersible sump pump.
Pump, compressor, motor and engine, Axial type reciprocating. J. M. Towler and F. H. Towler. 2,661,700, Dec. 8.
Pump unloading means for pressure-atomizing oil burners, Time-controlled fuel. J. A. Logan and E. V. Lavallee. 2,661,795, Dec. 8.
Pumping liquefied gases containing nitrogen. F. E. Pavlis. 2,661,608, Dec. 8.
Pumping system analogue. F. W. Bubb. 2,661,898, Dec. 8.
Punching method and tool. E. W. Brinkman. 2,661,663, Dec. 8.
Purification and separation of gas mixtures. H. Kahle. 2,661,808, Dec. 8.
Purification of sodium alcoholates. E. F. Hill. 2,662,100, Dec. 8.
Purification of synthetic folic acid. A. R. Hanze. 2,662,081, Dec. 8.
Purifying dehydrocholic acid. P. Poulenc, B. Gauthier, and G. M. E. Aloys. 2,662,088, Dec. 8.
Quick-adjusting toggle wrench. H. T. Jones. 2,661,648, Dec. 8.
Quickly attachable or removable surface clamp. H. E. Caston. 2,661,783, Dec. 8.
Rack for refrigerator car floors and similar purposes. A. G. Dean. 2,661,705, Dec. 8.
Radiator cap cover attachment, Heat resistant. F. O. Dolezal. 2,661,859, Dec. 8.
Radioactive detector means in automatic steering systems. W. Wells. 2,662,208, Dec. 8.
Railway car truck bolster stabilizer. K. M. Hamilton. 2,661,703, Dec. 8.
Ratchet type impact tool. O. J. Swenson. 2,661,647, Dec. 8.
Razor, Electric. M. Salz. 2,661,532, Dec. 8.
Razor, Magazine safety. J. F. Cavanagh. 2,661,530, Dec. 8.
Razor with adjustable guard. M. J. Shnitzler. 2,661,533, Dec. 8.
Receptacle: *See*—
Paint receptacle. Smoker's receptacle.
Recovery of hydrocarbons. S. F. Magor and R. A. Daugherty. 2,662,049, Dec. 8.
Reduction of noise and shock in power pumps. W. Ferris. 2,661,695, Dec. 8.
Refrigerating apparatus, Open top display. M. W. Baker. 2,661,604, Dec. 8.
Register frame. R. C. Lingelbach. 2,661,677, Dec. 8.
Regulator: *See*—
Fluid pressure regulator. Gas regulator.
Relief, sequence, and unloader valve. W. E. Renick. 2,661,763, Dec. 8.
Rendering organic textile material water repellent and composition therefor. A. E. Brown, A. M. Sookne, and F. W. Minor. 2,662,039, Dec. 8.
Resilient fastening clip. N. Nelsson. 2,663,515, Dec. 8.
Resiliently mounted shaft hanger. E. J. Herbenar. 2,661,986, Dec. 8.
Resistor terminal. M. G. Bales. 2,662,151, Dec. 8.
Resolving emulsions. S. D. Sumerford. 2,662,062, Dec. 8.
Retaining means for doors and the like. T. J. Sweger. 2,661,973, Dec. 8.
Reversible dead latch. W. R. Schlage. 2,661,972, Dec. 8.
Rewinding means, Strip. C. A. Christoff. 2,661,910, Dec. 8.
Rod: *See*—
Curtain rod.
Roll up map case. G. C. Corley. 2,661,570, Dec. 8.
Rotary plug type valve. R. B. Resek. 2,661,926, Dec. 8.
Rotor brake. C. E. Tack. 2,661,818, Dec. 8.
Ruling machine. J. D. Moore. 2,661,538, Dec. 8.
Safety control mechanism for hydraulic apparatus. H. V. Mills. 2,661,722, Dec. 8.
Salt block holder. J. Scheidt and L. A. Teegardin. 2,661,719, Dec. 8.
Sand classifying apparatus. L. F. Bush. 2,661,839, Dec. 8.
Saw tooth voltage generator. C. Le Comte. 2,662,197, Dec. 8.
Saw, Trimmer. E. W. De Koning. 2,661,778, Dec. 8.
Seal for vehicle license plates, Locking. W. S. Salisbury. 2,661,558, Dec. 8.
Sealing means for fluid valves. R. C. Barkelew. 2,661,925, Dec. 8.
Seat and safety disk element for valves, Combined. J. H. Stroon. 2,661,753, Dec. 8.
Seat pad for coats. S. H. Tate. 2,661,474, Dec. 8.
Sectional connected reading and recitation table. O. H. Steene and A. Steene. 2,661,988, Dec. 8.

Sectional housing for electrical control and ignition apparatus of fluid fuel burners. H. F. Tapp and R. M. Cochrane. 2,662,109, Dec. 8.
Self-activated zinc sulfide phosphors. F. A. Krőger. 2,662,060, Dec. 8.
Separating a gaseous mixture. F. E. Gilmore. 2,661,812, Dec. 8.
Separation of menthol from mint oils by a fractional distillation process. G. L. Bridger and H. M. Chang. 2,662,052, Dec. 8.
Separator: *See*—
Battery separator.
Separator for intermingled fluids. E. R. Liggett and C. R. Calender. 2,661,605, Dec. 8.
Serial numbering machine. H. P. Luhn. 2,661,896, Dec. 8.
Servicing system for aircraft, Multiple fuel tank. D. Samiran. 2,661,761, Dec. 8.
Servomotor, Pressure fluid, follow-up type. P. Johnson. 2,661,723, Dec. 8.
Sewing attachment for sewing machines, Hem. J. Hickey. 2,661,710, Dec. 8.
Shaver construction, Electric dry. J. Streng. 2,661,531, Dec. 8.
Shearing action device. D. H. Keiser, Jr. 2,661,534, Dec. 8.
Sheet pickup and feeder. W. G. Montgomery. 2,661,948, Dec. 8.
Sheet piler end stop structure. G. F. Bauer. 2,661,949, Dec. 8.
Shelling nuts, Method and apparatus for. F. O. McMillan. 2,661,784, Dec. 8.
Ship propulsion gear. F. A. Süberkrüb. 2,661,633, Dec. 8.
Shrinkage method for knitted fabrics. J. Hamilton and A. A. Meder, Jr. 2,661,520, Dec. 8.
Signaling system for indicating inefficient vacuum conditions in automotive engines. G. J. Worel. 2,661,713, Dec. 8.
Single motor transit concrete mixer. C. L. Willard. 2,661,935, Dec. 8.
Sizing nylon shapes. R. E. James, Jr., and R. B. Koch. 2,661,499, Dec. 8.
Ski-fastening device. A. Attenhofer. 2,661,957, Dec. 8.
Skirt, Maternity. M. G. Doll. 2,661,468, Dec. 8.
Skirt, Maternity. G. R. Gilbertson. 2,661,477, Dec. 8.
Slicing machine, Candy. E. C. Clement. 2,661,707, Dec. 8.
Smoker's receptacle. P. M. Manion. 2,661,747, Dec. 8.
Soap case. W. Olivier Paige. 2,661,520, Dec. 8.
Sodium hydrosulfide solution, Manufacturing. P. A. Maschwitz. 2,662,000, Dec. 8.
Speaker protective device for drive-in theaters. R. Dillone. 2,661,505, Dec. 8.
Spectrum lock-in arrangement with automatic frequency control. E. H. Hugenholtz. 2,662,180, Dec. 8.
Speculum. R. D. Davis. 2,661,735, Dec. 8.
Speed control for motor vehicles, Selective. G. B. Smith. 2,661,941, Dec. 8.
Speed transmission, Twin multiple. E. Lammerz and H. Herrmann. 2,661,632, Dec. 8.
Sprayer. R. C. Hudson. 2,661,982, Dec. 8.
Spreader panel bullet. J. E. Allen and W. H. Cantrell. 2,661,694, Dec. 8.
Spring and mattress, Combination box. E. E. Roher. 2,661,486, Dec. 8.
Stable vitamin B_{12}-containing composition. W. A. Winsten. 2,662,048, Dec. 8.
Stabilized lactic casein solutions. K. B. Daniloff. 2,662,026, Dec. 8.
Stack jogger. T. E. Brown. 2,661,950, Dec. 8.
Staining glass and glass staining composition. O. S. Levi. 2,662,036–7, Dec. 8.
Staining glass, glass staining compositions, and stained glass article. O. S. Levi. 2,662,035, Dec. 8.
Stamp for marking metal slabs or the like, Hand. L. H. Fenstermaker. 2,661,681, Dec. 8.
Stapler, Hammer type. M. Abrams. 2,661,999, Dec. 8.
Steaming and pressing apparatus. L. Reichold. 2,661,552, Dec. 8.
Steel, Cast tool. R. D. Ahles. 2,662,010, Dec. 8.
Steel wheel. R. H. McElroy. 2,661,980, Dec. 8.
Steering system with displacement limiting means, Automatic. J. F. Hollister. 2,662,207, Dec. 8.
Sterile brush dispenser. J. Petrecca. 2,661,991, Dec. 8.
Stirrer for high-pressure contactors, Electromagnetic. W. E. Kuentzel. 2,661,938, Dec. 8.
Stitched case. E. M. Goetz. 2,661,823, Dec. 8.
Store arrangement with coin-operated dispensing means. H. A. Toulmin, Jr. 2,661,504, Dec. 8.
Storm window latch. B. E. Moriarty. 2,661,509, Dec. 8.
Strand lacer for reels. W. B. Lowe and H. E. Pape. 2,661,522, Dec. 8.
Straw cellulose, Preparation of. P. H. Teunissen. 2,662,012, Dec. 8.
Stylus pickup, Multiple. C. F. Jensen. 2,662,121, Dec. 8.
Submersible sump pump. E. J. Schaefer. 2,662,206, Dec. 8.
Superheterodyne receiving arrangement for use at ultra-short waves. L. J. Cock, B. G. Dammers, W. W. Boelens, and J. R. de Miranda. 2,662,171, Dec. 8.
Supplying steam to the interior of advancing molds, Method of and apparatus for. L. W. Lubenow. 2,661,496, Dec. 8.
Support: *See*—
Garbage can support.
Support for ironing tables. J. Siczkiewicz, Jr., and H. L. Voigt. 2,661,554, Dec. 8.
Surgical table. H. P. Weiland. 2,661,989, Dec. 8.
Sweeper, Vacuum type leaf. J. F. Joy. 2,661,493, Dec. 8.
Switch: *See*—
Coaxial-line switch.
Disconnect switch.
Key operated switch.
Protected switch.
Transformer protective switch.
Switch with stationary blades having cut-back edges, Dial. W. C. Sealey. 2,662,130, Dec. 8.
Switching system using secondary emission type beam tubes. W. Six, J. L. H. Jonker, and Z. V. Gelder. 2,662,177, Dec. 8.
Sword with removable protector rod brackets. J. B. Goodgame. 2,661,772, Dec. 8.
Syringe, Disposable. G. M. Hickey. 2,661,740, Dec. 8.
System of determining the listening habits of wave signal receiver users. S. A. Scherbatskoy. 2,662,168, Dec. 8.
Table: *See*—
Portable and adjustable packing table.
Sectional connected reading and recitation table.
Surgical table.
Table and bench assembly, Knockdown picnic. J. P. Lysaght. 2,661,792, Dec. 8.
Teapot set. A. P. Freeman. 2,661,678, Dec. 8.
Tear-cord applying machine and method. W. F. Hanser. 2,661,582, Dec. 8.
Telegraph receiver, Frequency shift. J. V. Beard. 2,662,114, Dec. 8.
Telemetering impedance bridge. N. Brewer. 2,662,223, Dec. 8.
Telemetering mechanism for chart recorders. D. Clegg and L. E. Jenssen. 2,662,212, Dec. 8.
Tensiometer. R. M. Brink. 2,661,623, Dec. 8.
Tension control for the let-off mechanisms of looms. G. W. Kretzschmar. 2,661,773, Dec. 8.
Tensioning mechanism for winding machines. M. A. Thom. 2,661,914, Dec. 8.
Terminal construction for electrical apparatus. R. P. Ballou. 2,662,221, Dec. 8.
Therapeutic compositions from spleen tissue, Preparation of. J. M. Amozurrutia. 2,662,047, Dec. 8.
Thread collector. E. J. Griset, Jr., and R. T. Lynch. 2,661,588, Dec. 8.
Thread trimming machine. J. Rubin. 2,661,519, Dec. 8.
Three-phase alternating current apparatus with thermal protection. R. E. Seely. 2,662,203, Dec. 8.
Thresher having spring actuated beaters, Pea. J. H. Nelson. 2,661,745, Dec. 8.
Thrust bearing and reciprocator for shafts, Hydraulic. G. Compton, Jr. 2,661,580, Dec. 8.
Tilting mechanism for kerf cutting machines. L. E. Simmons. 2,661,939, Dec. 8.
Tire mounting and demounting apparatus, Circumferentially traveling type. H. M. Rockwell. 2,661,793, Dec. 8.
Tool: *See*—
Collapsible boring tool.
Combined shut-in and back circulation tool.
Form cutting tool.
Ratchet type impact tool.
Welt brace-laying tool.
Top with edge binder, Sectional. H. G. Knuth. 2,661,990, Dec. 8.
Toy, Articulated wheeled pull. W. B. Only, Jr. 2,661,573, Dec. 8.
Toy boat. R. Ramsay. 2,661,571, Dec. 8.
Toy electric railroad. J. L. Bonanno. 2,661,852, Dec. 8.
Tramming drive for mining and loading machine. C. E. Andershock. 2,661,629, Dec. 8.
Transformer protective switch. S. R. Smith, Jr. 2,662,137, Dec. 8.
Transistor amplifier circuit. B. McMillan. 2,662,124, Dec. 8.
Transistor electrical transmission system, Two-way. R. M. Ryder. 2,662,122, Dec. 8.
Transmission device, Multiplex. C. J. H. A. Staal. 2,662,175, Dec. 8.
Transmission for vehicles, Change speed. W. O. Bechman and N. J. Palkovic. 2,661,634.
Transmission system including bilateral transistor amplifier, Eelectrical. W. Koenig, Jr. 2,662,123, Dec. 8.
Transmitting unit, Vehicle mounted hydraulic type power. C. W. Mott. 2,661,674, Dec. 8.
Trap: *See*—
Dairy container sediment trap.
Trawling otter. C. D. Burney. 2,661,562, Dec. 8.
Treating tobacco, Process of and apparatus for. A. W. Schoenbaum and H. L. Barnes. 2,661,746, Dec. 8.
Trigger-switch, Glow transfer. A. L. Samuel. 2,662,200, Dec. 8.
Tripod mechanism. J. B. Fairbanks. 2,661,672, Dec. 8.
Trolley wire clamp. H. Schutte. 2,662,129, Dec. 8.
Truck, Snubbed. J. J. Kowalik. 2,661,702, Dec. 8.
Truss bracing system for vertical stabilization of pipe line suspension bridges. W. Kenan. 2,661,488, Dec. 8.
Tube for treating fibers and the like with fluid under pressure. J. A. Bessom. 2,661,618, Dec. 8.
Tube mill with pocketed liner structure for automatic classification of grinding bodies and ground material. J. A. Slegten. 2,661,908, Dec. 8.
Turntable drive. D. B. Johnston. 2,661,627, Dec. 8.
Twister mechanism and bale tie. J. C. Leary. 2,661,680, Dec. 8.
2-thlopheneserines and their manufacture. E. C. Hermann. 2,662,087, Dec. 8.

Ultrasonic gauge. I. A. Greenwood, Jr., and A. Gordon, Jr. 2,661,714, Dec. 8.
Umbrella, Garden. F. Kampf and W. Uthemann. 2,661,752, Dec. 8.
Undergarments, Men's. P. Friedman. 2,661,738, Dec. 8.
Union which permits misalignment. D. J. Parmesan. 2,661,965, Dec. 8.
Valve: *See*—
Goggle valve.
Relief, sequence, and unloader valve.
Rotary plug type valve.
Valve. H. J. Persha. 2,661,758, Dec. 8.
Valve assembly. R. A. Troy. 2,661,765, Dec. 8.
Valve construction. A. U. Bryant. 2,661,762, Dec. 8.
Valve control for air hoses and the like, Automatic emergency. A. Johnson and A. S. Page. 2,661,764, Dec. 8.
Valve for fluid pressure systems, Unloading. J. J. Slomer. 2,661,755, Dec. 8.
Valve operating mechanism, Seed hopper. E. C. Voss. 2,661,956, Dec. 8.
Valve precise positioning device, Pneumatic. H. L. Bowditch. 2,661,725, Dec. 8.
Vaporizer. M. A. Bliofsky and C. W. Putnam. 2,662,159, Dec. 8.
Vault conditioner with control means. A. Trask. 2,661,603, Dec. 8.
Vending machine, Automatic. J. Munz and J. Tichopad. 2,661,827, Dec. 8.
Vibrator for massage purposes, Electric. C. Schwartz. 2,661,736, Dec. 8.
Voltage and position control system. J. J. Wilentchik. 2,662,146, Dec. 8.
Voltage generating circuit. D. A. Levell. 2,662,178, Dec. 8.
Washing machine and vibration damping means therefor. J. F. Young. 2,661,620, Dec. 8.
Watch movement having an automatic winding mechanism. H. Thiébaud. 2,661,591, Dec. 8.
Water-glass compositions, Self-hardening. K. Dietz. 2,662,022, Dec. 8.
Weather strip mounting for closures. R. J. Folse. 2,661,510, Dec. 8.
Welder head construction, Pneumatically operated. F. F. Folmer. 2,661,599, Dec. 8.
Welt brace-laying tool. S. B. and B. F. Hicks. 2,661,487, Dec. 8.
Wheel: *See*—
Steel wheel.
Wheel and axle assembly for tobacco truck chassis. B. E. Stokes. 2,661,958, Dec. 8.
Wheel stopping device. J. H. Mullins. 2,661,817, Dec. 8.
Wig construction. E. A. Corallo. 2,661,749, Dec. 8.
Window construction. W. A. South. 2,661,507, Dec. 8.
Window or screen mounting structure, Storm. J. F. Hubert. 2,661,508, Dec. 8.
Window structure. M. J. Tracy. 2,661,506, Dec. 8.
Wrench: *See*—
Quick-adjusting toggle wrench.
Wrench combined with punch and assembly tool. V. J. Hultquist. 2,661,644, Dec. 8.
Yarn stretching device. E. Stone, E. J. Sparke, and J. P. Muldowney. 2,661,521, Dec. 8.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 8, 1953

NOTE.—First number—class, second number—subclass, third number—patent number.

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CLASSIFICATION OF DESIGNS

D 3—11: Des. 171,063
D 4— 3: Des. 171,029
Des. 171,070
D14— 3: Des. 171,032
Des. 171,071
6: Des. 171,022
Des. 171,044
D16— 2: Des. 171,066
D17— 1: Des. 171,045

D26—14: Des. 171,055
D29—23: Des. 171,024
D31— 4: Des. 171,040
Des. 171,062
D34— 5: Des. 171,048
Des. 171,069
D44— 1: Des. 171,038
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D44—22: Des. 171,043
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D45— 4: Des. 171,046
Des. 171,047
9: Des. 171,059
16: Des. 171,027
Des. 171,028
Des. 171,036
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D45—19: Des. 171,060
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D52—10: Des. 171,067

D52—10: Des. 171,068
D54—12: Des. 171,031
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D57— 1: Des. 171,030
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Des. 171,056
D61— 1: Des. 171,049
D71— 1: Des. 171,053
D74— 1: Des. 171,057

D80— 9: Des. 171,033
D83— 1: Des. 171,023
D85— 2: Des. 171,054
D87— 3: Des. 171,019
D91— 2: Des. 171,037
4: Des. 171,020
D92— 1: Des. 171,026
21: Des. 171,064

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NOTICES

Adjudicated Patents

(C. A. Ill.) Kraus Patent No. 2,186,417, for a cutter. Claims 1, 2, 10, 12, 15, 16, and 19 *Held* valid and infringed. *The Ingersoll Milling Machine Company* v. *General Motors Corporation*, 207 F.2d 42; 98 USPQ 54.

(C. A. Del.) Mathewson Patent No. 2,421,280, for a tufting button. *Held* invalid. *United Mattress Machinery Company, Inc.* v. *Handy Button Machine Company*, 207 F.2d 1, 98 USPQ 296.

Disclaimers

2,516,864.—*Arville W. Gilmore* and *Glenn Koger*, Bridgeport, Conn. METHOD OF MAKING HOSE FROM ELASTOMERIC COMPOSITION. Patent dated Aug. 1, 1950. Disclaimer filed Nov. 9, 1953, by the assignee, *General Electric Company*.

Hereby enters this disclaimer to claims 1, 2, 3, 4, 6, 7, 8, 9, 10, 12, 13, and 14 of said patent.

2,529,609.—*Morris L. Jacob*, Pittsburgh, Pa. CIRCULAR ANNEALING INNER COVER. Patent dated Nov. 14, 1950. Disclaimer filed Nov. 13, 1953, by the assignee, *Pittsburgh Annealing Box Company*.

Hereby enters this disclaimer to claims 1, 2, and 4 of said patent.

2,534,600.—*Ottis A. Sutton*, Wichita, Kans. MOUNTING YOKE FOR FANS OR SIMILAR APPLIANCES. Patent dated May 29, 1951. Disclaimer filed Nov. 3, 1953, by the assignee, *The O. A. Sutton Corporation, Inc.*

Hereby enters this disclaimer to claims 5, 6, and 7 of said patent.

2,587,253.—*Gilbert S. Vernam*, Hackensack, N. J. TELEGRAPH SWITCHING SYSTEM. Patent dated Feb. 26, 1952. Disclaimer filed Nov. 16, 1953, by the assignee, *The Western Union Telegraph Company*.

Hereby enters this disclaimer to claims 4, 5, 6, and 11 of said patent.

Classification Order No. 155

The following transfers are hereby directed to take effect on Monday, November 23, 1953:

From Division 51 to Division 66
Class 181, Acoustics

From Division 51 to Division 70
Class 250, Radiant Energy
Subs. 33 thru 33.69

From Division 70 to Division 51
Class 250, Radiant Energy
Sub. 36

From Division 26 to Division 48
Class 336, Adjustable Inductor Devices

M. C. ROSA.
Executive Examiner.

Nov. 16, 1953.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,595,570. Portable Window Ventilator. Patented May 6, 1952. Ventilator, limitedly flexible so as to be readily "sprung" into or out of place within a window opening and between window stops, is slanted similarly to present fixed ventilators, except that the bottom edge goes down to the outside sill. The upper edge of the ventilator extends well above the lower edge of the sash, and the side edges fit between the window stops in the window frame, preventing admission of any rain or snow to any part of the house interior or trim, but providing a large, unobstructed opening for upwardly deflected ventilation. The ventilator will support non-balanced sash. The contoured upper edge also aligns curtains and drapes and prevents their out-drag. The device may be sold to fit any of equal-size windows or is adjustable to correct for window inequalities. In simplest construction, it may be formed from a single sheet of metal, glass, plastics, or any combination, and may be made to include a screen. (Owner) James A. Ferris, 712 Reid St., West De Pere, Wis. Group 34—95. Reg. No. 52,164.

Pat. 2,632,663. Lever Actuated Latch Bolt. Patented Mar. 24, 1953. Lever-actuated latch includes a bolt with a gripping jaw on the outer end to snap over a keeper as the parts are automatically drawn together. A threaded stem extends from the other end of the bolt and is slidably mounted in slots and openings in flanges in base of the latch. The bolt has a shoulder at the intersection of the bolt and stem, and a spring around the stem bears against the shoulder and the flange. A U-shape lever has arms with rollers in the ends thereof and openings spaced from the ends in which the pins of a trunnion threaded on the stem are positioned. When the jaw is snapped over the keeper, the lever is forced downwardly and the rollers travel across the center of the bolt and secure the bolt in locking position. The bolt may be released by forcing the lever upwardly. (Owner) Jack Croft, 6201 Greenlee St., Cisco, Tex. Group 33—59. Reg. No. 52,165.

Pat. 2,641,786. Resilient Brush and Buffer Holding Handle. Patented June 16, 1953. A detachable handle for holding a shoebrush and a shoe buffer side by side as a unit, so the two articles can be used at one time for shining shoes. Each of a pair of spaced, parallel, spring clamps has a pair of arms mounted for movement toward and away from each other and connected by a loop. A pad is secured to the free end of each arm to engage the sides of the brush and buffer. A wire retaining member extends through the loops and forms an intermediate zig-zag portion to be gripped in the user's hand when shining shoes. A pair of spaced parallel legs extend from the retaining member and terminate between the brush and buffer. A cushion is secured to the free end of each leg and positioned between the brush and buffer. (Owner) Robert S. Parker, 4 James St., Dover, N. J. Groups 33—73; 39—22; 40. Reg. No. 52,166.

Royalty-Free Patents

E. I. du Pont de Nemours and Company hereby grants a free, irrevocable, and unlimited license to the Government and the People of the United States of America under the following 57 U. S. Letters Patent. The term "People" is to be understood to include individuals, firms, corporations, and other business organizations and institutions, whether operated for profit or not. All but three of these patents were previously registered as available for licensing on reasonable terms, and abstracts were published in the *Register* section of the OFFICIAL GAZETTE, Jan. 25, and Feb. 1 and 8, 1949; Mar. 7 and 14, Sept. 26, and Oct. 3, 1950; and Nov. 13, 1951. They are hereby removed from that category in view of the free license now granted.

Pat. 2,085,163. Paper. June 29, 1937. Surface colored paper after-impregnated with deacetylated chitin. Group 26—39. Reg. No. 52,167.

Pat. 2,091,121. Dry Cleaning Emulsion. Aug. 24, 1937. A water-in-oil emulsion comprising a hydrocarbon dry cleaning solvent in which is dissolved a long chain aliphatic alcohol and an oil-soluble salt of the sulfuric acid ester of oleyl alcohol which has been acetylated prior to sulfonation. Group 28—93. Reg. No. 52,168.

Pat. 2,127,564. Zinc Ammonium Chloride Fluxes. Aug. 23, 1938. Zinc ammonium chloride galvanizing flux which contains sulfates is treated with a soluble barium compound to convert the sulfate to barium sulfate so that when used with foaming agents the flux will produce foams of satisfactory thickness and character. Group 33—75. Reg. No. 52,169.

Pat. 2,139,276. Emulsifying and Treating Agents. Dec. 6, 1938. A self emulsifying composition comprising mineral oil or wax having dissolved therein an aliphatic monohydric alcohol of at least 4 C atoms and an N-dialkyl cyclohexylamine salt of a sulfuric acid ester of a normal primary aliphatic alcohol of 10 to 18 C atoms and emulsions of the above composition. Group 28—89. Reg. No. 52,170.

Pat. 2,144,463. Azo Dyes and Process for Their Application. Jan. 17, 1939. Polyazo dye developed on the fiber having a plurality of amide linkages. Also claims process of applying dye to fiber. Group 22—51—52—53. Reg. No. 52,171.

Pat. 2,147,635. Dyestuff Pastes and Process for Applying the Same. Feb. 21, 1939. Printing paste comprising the stable leuco derivative of an alkyl ether of Bz-2, Bz-2'-dihydroxydibenzanthrone, an alkyl or alkylol amine, and a reducing salt. Group 28—91. Reg. No. 52,172.

Re. Pat. 22,133. Azo Dyes. Reissued July 14, 1942 (reissue of 2,167,142 originally issued July 25, 1939). Azo dyes of the formula: 2-amino-4-methylanisole→anilide of 2,3-hydroxynaphthoic acid in which the anilide nucleus may be substituted by alkyl, alkoxy, nitro or halogen. Group 28—89. Reg. No. 52,173.

Pat. 2,172,753. Disazo Dyes for Cellulose Esters. Sept. 12, 1939. Blue and black disazo dyes for cellulose esters. Group 28—89. Reg. No. 52,174.

Pat. 2,200,069. Spirit Printing Inks and Process of Making Same. May 7, 1940. Spirit printing ink comprising a low boiling alcohol, a finely divided spirit insoluble pigment and an alkyl ether of cellulose. Group 28—91. Reg. No. 52,175.

Pat. 2,205,032. Dye Compositions. June 18, 1940. Printing fabric with a paste comprising a vat dye and $(R_1OOC)_n-R-(COOM)_n$ R=aromatic hydrocarbon radical, n=1–3 and M=H or water soluble salt forming group. Groups 23—V2; 28—91. Reg. No. 52,176.

Pat. 2,206,535. Stripping Dyed Textile. July 2, 1940. Textile material dyed with vat or azoic dyes are stripped with an aqueous bath of formamidine-sulfinic acid and alkali near the boiling point. Group 22—51—52—53. Reg. No. 52,177.

Pat. 2,210,461. Synthetic Resin Printing Ink. Aug. 6, 1940. A rotogravure printing ink containing as binder a resinous polymer of dihydronaphthalene or dihydroacenaphthene. Group 28—91. Reg. No. 52,178.

Pat. 2,228,033. Sympathetic Ink. Jan. 7, 1941. A sympathetic printing ink normally invisible when applied to paper consisting of a readily volatile alcohol taken from the group consisting of methyl and ethyl alcohols having dissolved therein sufficient alcohol soluble cellulose ether to render the ink of a viscosity suitable for printing purposes. Group 28—91. Reg. No. 52,179.

Pat. 2,228,465. Coloring of Paper With Sulphur Colors. Jan. 14, 1941. Manufacturing colored cellulosic fibers which comprises suspending the fibers in water, adding to the water suspension of the fibers a solution of an alkali metal sulfide and a sufficient quantity of a reduced sulfur dyestuff to dye the fibers and make the pulp mixture basic, adding to said mixture a water-soluble salt of a metal which forms insoluble sulfides in neutral and alkaline solutions. Group 26—20. Reg. No. 52,180.

Pat. 2,234,648. Process of Making Colored Paper. Mar. 11, 1941. Process which comprises consecutively wetting a surface layer of a formed article of paper fibers with a solution comprising an azo dye coupling component and a solution comprising a diazotized aryl amine, and drying, the total acid remaining on the fiber before drying being not in excess of that which produces a combined residual mixture on the fiber which is neutral to slightly acid. Group 26—20. Reg. No. 52,181.

Pat. 2,238,243. Liquid Coating Composition. Apr. 15, 1941. Claims a can-stable, non-bronsing, non-aqueous liquid coating composition containing as principal color constituent the lake obtained by precipitating with barium chloride and in the presence of alumina hydrate, sulfonated copper phthalocyanine containing from 1.34 to 3.45 sulfo groups per molecule. Group 28—99. Reg. No. 52,182.

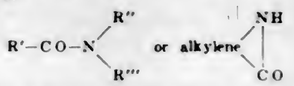
Pat. 2,238,275. Method of Flushing Water Wet Pigments in Oil. Apr. 15, 1941. Process of converting an aqueous pigment paste into an oily pigment paste. Group 28—12. Reg. No. 52,183.

Pat. 2,254,372. Azo Dye Wood Stain. Sept. 2, 1941. Method of staining wood by impregnating it with a composition comprising an organic solvent and an azo dye soluble in the solvent having a sulfonic group in the form of its free acid. Example: The acid form of amino azo benzene→2-naphthol-6,8-disulfonic acid is dissolved in a mixture of methyl alcohol, toluene and diethylene glycol, producing a bright scarlet wood stain. Group 28—93. Reg. No. 52,184.

Pat. 2,255,090. Inhibiting the Gas Fading of Dyed Acetate Silk. Sept. 9, 1941. Process of inhibiting the action of gases which are deleterious to dyeings on cellulose acetate fibers by wetting the fibers with an aqueous fluid containing aryl biguanides. Group 28—51. Reg. No. 52,185.

Pat. 2,274,387. Azo Dye. Feb. 24, 1942. The process of dyeing union textiles containing cellulose acetate fibers without imparting substantial stain to the acetate, and with the production of color having good discharge properties by applying a composition containing a direct cotton azo dye, activated carbon, and water to the textiles. Group 22—51—52—53. Reg. No. 52,186.

Pat. 2,290,945. Printing of Textile Fabrics. July 28, 1942. A hydrous printing paste comprising a water-soluble condensation product of an insoluble dye: R—M, R=a radical of an insoluble dye which contains at least one condensable group, e. g. OHR=NH, M=an acyl radical; and 1% of



R'=OH, CH_3, C_2H_5 or OH or Hl derivatives, R'' and R'''=H, alkyl, hydroxy alkyl or jointly=piperidine or morpholine. Groups 23—V2; 28—91. Reg. No. 52,187.

Pat. 2,294,246. Printing Paste for Textile Printing. Aug. 25, 1942. A hydrous printing paste containing a thickener, a water-soluble condensation product of a substantially insoluble dye, an alkaline buffer and an ester of ammono-hydroxy aliphatic carboxylic acid, e. g. ethylene glycol-mono-glycolic acid ester, ethylene glycol-diglycolic acid ester, glycerol-mono-glycolic acid ester. Groups 23—V2; 28—91. Reg. No. 52,188.

Pat. 2,297,701. Process of Dyeing Animal Fibers. Oct. 6, 1942. Dyeing wool fiber with vat dyes by first treating the fiber in an aqueous bath containing a sulfur-containing vat-reducing agent but no added alkali and no vat color, heating the impregnated fiber, and then subjecting the same to vat dyeing in a bath containing the chosen vat color, alkaline agents and reducing agents. Group 22—35. Reg. No. 52,189.

Pat. 2,297,702. Process of Treating Animal Fibers. Oct. 6, 1942. Treating animal fiber whereby to increase its affinity for organic compounds which dissolve in water only after transformation into an OM-type compound wherein M stands for an alkali-metal, impregnating with a sulfur-containing vat-reducing agent and subjecting the fiber to heat at a temperature between 160 and 300° F. Group 22—35. Reg. No. 52,190.

Pat. 2,297,703. Process of Treating Animal Fibers. Oct. 6, 1942. Treating animal fiber whereby to increase its affinity for organic compounds which dissolve in water only after transformation into an OM-type compound, wherein M stands for an alkali-metal, by impregnating with a reagent selected from the group consisting of the water-soluble bisulfites and water-soluble hydrosulfites, and drying the fiber at a temperature not less than 160° F. Group 22—35. Reg. No. 52,191.

Pat. 2,297,801. Azo Dyes. Oct. 6, 1942. Brown trisazo dyes in which the last component is a 3,3'-diaminosym. diphenyl urea and which are tetrazotized and developed on the fiber to pentakisazo dyes. Group 28—89. Reg. No. 52,192.

Pat. 2,298,147. Textile Printing Process. Oct. 6, 1942. Production of resist designs under vat color dyeings by printing with an emulsion containing wax and a hydrolyzable aluminum salt, drying the printed fabric to obtain a temporary water repellency in the printed portions of the fabric, and then dyeing the printed fabric with a vat dye to provide a ground color. Group 23—V2. Reg. No. 52,193.

Pat. 2,318,133. Process of Dyeing With Vat Dyes. May 4, 1943. Dyeing textile fibers with vat colors by padding the fibers with a caustic alkali solution of the reduced colors and developing the colors on the fibers by subjecting them to a mild alkaline solution of an alkali metal hydrosulfite until development of the color is substantially complete, and after the development of the color is substantially complete oxidizing the reduced dye on the fibers. Group 22—51—52—53. Reg. No. 52,194.

Pat. 2,322,837. Printing Composition. June 29, 1943. A printing composition for printing textiles being an emulsion consisting essentially of an interpolymer of one of the group of compounds consisting of styrene, vinyl acetate, and esters of methacrylic acid with a drying oil in which the drying oil is present in an amount not greater than the other component, a solvent therefor being insoluble in water, an insoluble pigment, e. g., copper phthalocyanine, and water. Groups 23—V2; 28—91. Reg. No. 52,195.

Pat. 2,332,817. Textile Treating Method. Oct. 26, 1943. In a process for finishing textile materials with a positively charged aqueous dispersion by a process of exhaustion, and wherein the finish exhausts at too rapid a rate to give a finish of the desired uniformity, the step which comprises retarding the rate of exhaustion by incorporating in the dilute suspension of the dispersed finish from 0.02% to 0.5% of a cationic surface active agent. Group 22—51—52—53. Reg. No. 52,196.

Pat. 2,335,905. Printing Composition for Fabrics and the Resulting Printed Fabric. Dec. 7, 1943. Composition for printing comprising water, a film-forming material, a sulfur color pigment being in its oxidized water-insoluble, non-substantive form and substantially free from sulfur and sulfides, and containing only minor amounts of inorganic salts. Groups 23—V2; 28—91. Reg. No. 52,197.

Pat. 2,336,365. Textile Printing Process. Dec. 7, 1943. Printing cotton to obtain sharply registered colored designs comprising applying a permanent finishing and sizing agent and then printing with an alkaline type printing paste. Group 23—V2. Reg. No. 52,198.

Pat. 2,343,095. Resin Dispersion Useful in the Textile and Paper Industries. Feb. 29, 1944. A process of finishing textile fibers by exhausting thereon a highly dispersed polymerized vinyl compound from a dilute aqueous suspension of the same having a pH of from 4.0 to 7.5 the vinyl compound having been rendered substantive to the fiber by being dispersed in aqueous medium with a cationic surface active agent prior to dilution in the treating bath. Groups 22—51—52—53; 26—20. Reg. No. 52,199.

Pat. 2,343,781. Spirit Printing Composition. Mar. 7, 1944. A spirit printing ink comprising a solution of a basic dye and a powdered wood rosin in an oxygenated organic solvent. Group 28—91. Reg. No. 52,200.

Pat. 2,344,229. Food Product. Mar. 14, 1944. The biological value of food for children or feed for animals may be improved by incorporating amino acids into commercial basic food materials. The kinds and amounts of the acids introduced are such that the final mixture contains the several essential amino acids in approximately the proportions in which they may be assimilated. Group 20—41 through 52. Reg. No. 52,201.

Pat. 2,346,473. Dyeing of Wool With Nonmetallized Acid Colors. Apr. 11, 1944. Dyebath for dyeing wool comprising essentially a water solution of a nonmetallized acid wool dye and sufficient hydroxy-acetic acid to give the bath a pH value of about 3 to about 3.5. Group 22—51. Reg. No. 52,202.

Pat. 2,346,957. Printing Composition. Apr. 18, 1944. An emulsion comprising a film-forming material, water, a water-insoluble solvent for the film-forming material and a poly-anthrimide pigment. Group 28—91. Reg. No. 52,203.

Pat. 2,368,940. Process for Printing Nylon. Feb. 6, 1945. In the process of printing nylon dyed with a dischargeable ground color, with a vat dye in which the vat dye is applied with the usual printing paste containing an alkali metal sulfoxylate formaldehyde reducing agent the step which comprises employing as the only added alkali in the printing paste an alkali metal carbonate equal to from 0.1% to 0.5% of the weight of the printing paste. Group 23—V2. Reg. No. 52,204.

Pat. 2,369,696. Continuous Piece Goods Processing Machine. Feb. 20, 1945. Dyeing machine wherein loose folds of piece goods are fed continuously onto and taken off the reels. Group 35—52. Reg. No. 52,205.

Pat. 2,370,341. Pigmented Coating Compositions. Feb. 27, 1945. A pigmented protective coating composition comprising a red pigment, which is 6-chloro-2-aminotoluene→2-hydroxy-3-naphthoic acid anilide, and a non-volatile film-forming vehicle, such as (1) a drying oil and a thinner, (2) a lacquer resin and a volatile thinner, or (3) a lithograph varnish. These coatings have good light fastness, and non-bleeding and strength properties. Group 28—99. Reg. No. 52,206.

Pat. 2,370,421. Treatment of Oil Wells. Feb. 27, 1945. Composition for treating oil wells comprising an aqueous mineral acid solution containing 0.001–5% by weight of a mixture of alkane and chloroalkane primary and secondary mono- and polysulfonic acids containing at least 6 C atoms in the molecule. Group 28—89. Reg. No. 52,207.

Pat. 2,374,106. Process for Dyeing Nylon. Apr. 17, 1945. Nylon dyed with a metallized dye which, when applied to the nylon, is in water-insoluble form. Group 28—51. Reg. No. 52,208.

Pat. 2,377,709. Pigmenting Compositions for Textile Fabric. June 5, 1945. A textile pigmenting composition of increased uniformity comprising water; a water-insoluble organic pigment, e. g., a phthalocyanine pigment; a water-insoluble, heat-convertible partially esterified starch forming a water-resistant film on drying; and a capillary active agent consisting at least mainly of lignisulfonic acid or its water-soluble salts. Group 28—89. Reg. No. 52,209.

Pat. 2,415,379. Process for Dyeing Textile Fibers With Vat Dyes. Feb. 4, 1947. A process which comprises padding the fiber, which has been impregnated with unreduced dye in the pigment form, with a caustic alkali solution of a reducing agent under conditions which do not immediately reduce the vat color on the fiber, and then alternately subjecting the padded fiber to the action of steam and an alkali solution of a reducing agent, in the absence of air until substantially all the color has been reduced and fixed on the fiber. Group 22—51—52—53. Reg. No. 52,210.

Pat. 2,416,447. Weather Resistant Flameproof Paper. Feb. 25, 1947. A parchment paper containing, uniformly distributed throughout, 5–20% by weight of antimony oxide and 5–25% of a chlorine-containing, water-insoluble, organic compound of the group adapted to liberate hydrogen chloride at the kindling temperature of the paper. Group 26—20. Reg. No. 52,211.

Pat. 2,416,549. Azo Printing Composition. Feb. 25, 1947. Cellulosic textile fiber is dyed by development on the fiber of a disazo compound of the formula:

$$R-N=N-D-N=N-R$$

D=radical of dianisidine, R=mixed radicals of beta-hydroxynaphthoic acid and the anilide thereof in the ratio in the range of 1:19 to 1:2. Resulting shades are greener than those obtained in the absence of the beta-hydroxynaphthoic acid. Groups 23—V2; 22—51—52—53. Reg. No. 52,212.

Pat. 2,418,416. Manufacture of Azo Lakes. Apr. 1, 1947. Manufacture of an azo lake of improved fastness by dissolving an amine of the benzene, biphenyl or naphthalene series and a coupling component of the benzene or naphthalene series containing an OH group, a solubilizing group, and no NH_2 groups in an aqueous non-oxidizing mineral acid solution of pH value to allow diazotization of the amine but not coupling of the components when a diazotising agent is added, diazotising the amine, increasing the pH to allow coupling and adding a salt of a laking metal. Example: ortho-aminobenzoic acid→2-naphthol-3,6-disulfonic acid, laked with $BaCl_2$. Group 28—12—89. Reg. No. 52,213.

Pat. 2,439,745. Composition Comprising Caprolactam for Printing Nylon Fiber. Apr. 13, 1948. A printing paste for nylon comprising a thickening agent pasted with water, a direct or acid dyestuff, caprolactam, and an ammonium salt of sulfuric, phosphoric, or pyrophosphoric acid; also the process of dyeing with such a paste. Groups 23—V2; 28—91. Reg. No. 52,214.

Pat. 2,447,993. Process for Dyeing Textile Fibers With Vat Dyes. Aug. 24, 1948. A continuous process for dyeing textile fibers with vat dyes by padding the fiber with the unreduced vat dye in pigment form, immediately passing the fiber into a closed chamber containing steam and a boiling hot alkaline solution of a reducing agent, and alternately subjecting the fiber to the action of the solution and steam. Group 22—51—52—53. Reg. No. 52,215.

Pat. 2,460,206. Method of Continuous Dyeing. Jan. 25, 1949. A process for dyeing running lengths of unwoven textile fibers with vat dyes which comprises passing continuous fiber bundles through an impregnation bath, then through a constricting tube to squeeze the fibers to a predetermined moisture retention, and into a developing chamber to fix the dye upon the fiber. Group 22—51—52—53. Reg. No. 52,216.

Pat. 2,468,940. Printing Cellulose Ester Material With Acid and Direct Dyes. May 3, 1949. Printing paste for cellulose ester material comprising a thickening agent pasted with water, a direct or acid dyestuff, caprolactam, and thiourea. The process of printing cellulose esters with such a paste is also claimed. Groups 23—V2; 28—91. Reg. No. 52,217.

Pat. 2,478,767. Manufacture of Azo Compounds. Aug. 9, 1949. Process of gradually mixing an acid solution of a diazo component and an alkaline solution containing a diazotizing agent and a coupling component. Group 28—89. Reg. No. 52,218.

Pat. 2,478,768. Manufacture of Azo Lakes. Aug. 9, 1949. Production of lakes of azo compounds by mixing two water solutions, one of which is acid and the other alkaline, whose composition is such that the final mixture contains a laking agent, a coupling component, and diazotizable primary amine. Group 28—12—89. Reg. No. 52,219.

Pat. 2,487,197. Process for Dyeing Textile Fibers With Vat Dyes. Nov. 8, 1949. Continuous process for dyeing with vat dyes which comprises padding the fiber with an aqueous suspension of an unreduced vat dye, padding the fiber with an alkaline solution of sodium hydrosulfite, and steaming in the absence of oxygen. Group 22—51—52—53. Reg. No. 52,220.

Pat. 2,505,657. Continuous Processing Machine for Textile Fabrics. Apr. 25, 1950. The "Multi-Lap" machine for the continuous dyeing of textile fabrics in open width. Group 35—52. Reg. No. 52,221.

Pat. 2,518,153. Dyeing of Cellulose Esters With Reduced Vat Dyes in Alcoholic Solution. Aug. 8, 1950. Dyeing cellulose esters with vat dyes by padding with an aqueous solution of a reduced vat dye containing 30–60% of alcohol and specified amounts of potassium hydroxide, a wetting agent, a dispersing agent and, as a stabilizing agent, diethylene glycol, or glycerine, passing the material into an aqueous solution having an alkalinity below that at which saponification of the cellulose ester takes place, and oxidizing the dye on the material. Group 22—51—52—53. Reg. No. 52,222.

Pat. 2,580,230. Improved Polyvinyl Acetate Emulsion Capable of Depositing Water-Resistant Films and Bonds. Dec. 25, 1951. Water-resistant coating or adhesive for paper, paper products, textiles, and other applications, comprises a tacky aqueous emulsion of polyvinyl acetate and a small amount of bentonite. Group 28—89. Reg. No. 52,223.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 8, 1953

[VOL. 677. NO. 2]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 647,326. United States Rubber Company, New York, N. Y. Filed May 19, 1953.

STURDICELL

For Cellular or Sponge Rubber Sheets or Slabs for Use as Shock or Vibration Dampening Mountings.
Claims use since Dec. 11, 1952.

CLASS 2

RECEPTACLES

Ser. No. 579,598. Heller Hostess-Ware, Inc., White Plains, N. Y., by change of name from J. & M. Heller Company, Inc. Filed May 27, 1949.

Musicake

For Cake Tray and Cover Therefor Having a Musical Instrument Associated Therewith.
Claims use since Mar. 15, 1949.

Ser. No. 614,995. Perfection Packaging, Shelburn, Ind. Filed June 9, 1951.



Color is not claimed as a feature of the mark, and is not indicated by the vertical lines in the drawing, said lines constituting a part of the design which is a feature of the mark. Applicant disclaims any right to exclusive use of the syllable "Pak," apart from the mark as shown.
For Protective Packaging Container Formed of Two Opposed Layers of Perimetrally Sealed Transparent Cellulosic Material.
Claims use since Dec. 2, 1950.

Ser. No. 650,415. Bemis Bro. Bag Company, St. Louis, Mo. Filed July 17, 1953. (Sec. 2f.)

ANGUS

Applicant claims ownership of Registration No. 559,460.
For Burlap Bags.
Claims use since Aug. 4, 1920.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 622,453. Pest Control Limited, Bourn, Cambridge, England. Filed Dec. 13, 1951.



Applicant disclaims the letters "PCL" except in connection with the mark as such. Applicant claims ownership of British Registrations Nos. 681,334 and 681,335, dated July 26, 1949.
For Pesticides, Systemic Insect Poisons, Insecticides, Rodenticides, Fungicides, and Weed Killers.

CLASS 7

CORDAGE

Ser. No. 624,854. Shuford Mills, Incorporated, Hickory, N. C. Filed Feb. 12, 1952.



For Cotton Braided Clothes Lines.
Claims use since Oct. 17, 1949.

Ser. No. 624,856. Shuford Mills, Incorporated, Hickory, N. C. Filed Feb. 12, 1952.



For Cotton Braided Clothes Lines.
Claims use since Oct. 17, 1949.

Ser. No. 624,858. Shuford Mills, Incorporated, Hickory, N. C. Filed Feb. 12, 1952.



For Cotton Braided Clothes Lines.
Claims use since Oct. 17, 1949.

Ser. No. 624,859. Shuford Mills, Incorporated, Hickory, N. C. Filed Feb. 12, 1952.



For Cotton Braided Clothes Lines.
Claims use since Oct. 17, 1949.

Ser. No. 624,861. Shuford Mills, Incorporated, Hickory, N. C. Filed Feb. 12, 1952.



For Cotton Braided Clothes Lines.
Claims use since Oct. 17, 1949.

Ser. No. 625,566. Shuford Mills, Incorporated, Hickory, N. C. Filed Feb. 12, 1952.



For Cotton Braided Clothes Lines.
Claims use since Oct. 17, 1949.

Ser. No. 635,657. The Lees Textile Company, Lowell, Mass. Filed Sept. 23, 1952. (Sec. 2f.)

TY WELL

For Ribbons and Cords for Use in Tying Gifts and Wrapped Articles.
Claims use since on or about Nov. 1, 1923.

Ser. No. 639,633. Herbert A. Hecht, doing business as Herbert A. Hecht Company, Springfield, Ohio. Filed Dec. 17, 1952.

Decidedly so it's

APROPO

For Ribbon for Tying and Ornamenting Packages.
Claims use since Aug. 24, 1952.

Ser. No. 640,069. Fidelity Trading Co., Inc., San Francisco, Calif. Filed Dec. 27, 1952.

PIRATE

For Rope and Twine.
Claims use since Sept. 19, 1952.

Ser. No. 646,221. The R. A. Kelly Co., Xenia, Ohio. Filed Apr. 30, 1953.

THRIF-TY

The word "Ty" is disclaimed apart from the mark as shown.
For Twine.
Claims use since Feb. 13, 1953.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 636,024. Merit Products, Inc., Boston, Mass. Filed Oct. 1, 1952.

TALK-N-SMOKE

No claim is made to the word "Smoke" apart from the mark shown, for the purposes of this registration; but no common law or other rights are otherwise waived.
For Combination Ash Tray, Cigarette Holder, and Match Holder for Attachment to a Telephone.
Claims use since November 1949.

Ser. No. 646,152. Moss & Lowenhaupt Cigar Co., St. Louis, Mo. Filed Apr. 29, 1953.

CHARING CROSS

Applicant claims ownership of Registration No. 189,043.
For Pipes, Tobacco Pouches, and Lighter Flints.
Claims use since 1939.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 648,352. Belknap Hardware and Manufacturing Company, Louisville, Ky. Filed June 8, 1953.

BLUE GRASS

For Gun Recoil Pads and Gun Covers.
Claims use since 1947.

CLASS 10

FERTILIZERS

Ser. No. 637,535. Cimota Enterprises, Inc., Boise, Idaho. Filed Nov. 3, 1952.



For Soil Conditioner.
Claims use since July 16, 1952.

Ser. No. 639,054. Illinois Farm Supply Co., Chicago, Ill. Filed Dec. 5, 1952.

GRO-FLO

For Fertilizer.
Claims use since Oct. 23, 1952.

Ser. No. 640,793. International Xray, Inc., Mobile, Ala. Filed Jan. 15, 1953.



No claim is made to the words "Systemic Insecticide Fertilizer" apart from the mark as shown.
For Systemic Insecticide Fertilizer.
Claims use since Oct. 8, 1952.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 608,263. Arcadia Metal Products, Los Angeles, Calif. Filed Jan. 2, 1951.



The representation of the doors are disclaimed apart from the mark as shown.
For All Types of Doors, Windows, and Sash Made of Metal.
Claims use since July 1, 1949.

Ser. No. 621,494. American Ray-Proof Corporation, West New York, N. J., now by change of name Ameray Corporation. Filed Nov. 21, 1951.

AMERAY

For Construction Material of the Type and for the Purpose of Providing Protection Against X-Ray and Radioisotope Emissions, Such as Lead Core Partition Blocks, Lead Insulated Lath, Lead Lined Panels, Lead Core Doors and Frames, Lead Lined Floors and Ceilings, All Made in Sheet and Panel Form, Control Windows, Lead Lined Pass Boxes for Installation in Wall Surfaces, Door Seals, Such as Rubber, Felt, or Plastic Strips in Aluminum or Brass Cases Applied at the Head, Base, and Jambs of Doors, Windows, or Similar Openings To Prevent Infiltration of Light, and Related Structural Items Such as Lead Insulated Doors, Lead Insulated View Windows, Cast Lead View Windows, Lead Glass, Casette Transfer Cabinets, Film Storage Cabinets, All of Which Items Are Forming Part of Wall Structures of X-Ray and Radioisotope Emission Protecting Wall Structures.
Claims use since Sept. 6, 1951.

Ser. No. 622,298. Gate City Steel Works, Inc., Omaha, Nebr. Filed Dec. 10, 1951.

MIDWEST'S FRIENDLY GIANT

The outline of the United States and the representation of the I-beam are disclaimed apart from the remainder of the composite mark.
For Structural Steel—Namely, Sheet Steel, Angles, Bars, and Other Fabricated Structural Shapes Made to Specification.
Claims use since Sept. 1, 1951.

Ser. No. 632,428. Johns-Manville Corporation, New York, N. Y. Filed July 11, 1952.

C-4-C

For Diatomaceous Earth in Powdered Form Treated and Processed for Use as an Additive for Concrete.
Claims use since Nov. 19, 1951.

Ser. No. 635,245. Zonolite Company, Chicago, Ill. Filed Sept. 13, 1952.

BLO-CRETE

No registration rights are claimed for the word "Blo" apart from the mark shown in the drawing.
For Insulating and Building Materials in Powder or Granular Form, Sold in Bulk, for Application as a Form of Concrete to Surfaces.
Claims use since July 26, 1951.

Ser. No. 637,103. Appalachian Wood Preservers, Incorporated, Goshen, Va. Filed Oct. 24, 1952.

Appalachian ETERNALWOOD

Exclusive rights to the word "Appalachian" are not claimed apart from the rest of the mark.
For Railroad Ties, Timbers, Lumber, Piling, Poles, Fence Posts.
Claims use since October 1952.

Ser. No. 638,235. Baldwin-Hill Company, Trenton, N. J. Filed Nov. 18, 1952.

B-H DRI-SULATE

No claim is made to the word "Dri" apart from the mark as shown.
For Mineral Wool Insulation.
Claims use since Oct. 13, 1952.

Ser. No. 638,236. Baldwin-Hill Company, Trenton, N. J. Filed Nov. 18, 1952.

B H INSUL WRAP

No claim is made to the word "Wrap" apart from the mark as shown.
For Roofing Felt.
Claims use since Oct. 7, 1952.

Ser. No. 638,237. Baldwin-Hill Company, Trenton, N. J. Filed Nov. 18, 1952.

B-H FINE-FYBER FELT

No claim is made to the words "Fine-Fyber Felt" apart from the mark as shown.
For Mineral Wool Insulation.
Claims use since Sept. 23, 1951.

Ser. No. 647,702. Lester Brothers, Inc., Martinsville, Va. Filed May 26, 1953.

LESCO

For Prefabricated Door Units, Prefabricated Window Units and Prefabricated Houses.
Claims use since June 1, 1948.

Ser. No. 648,188. The Perma Products Company, Cleveland, Ohio. Filed June 3, 1953.

JIFFY

For Corner Finishing Strips.
Claims use since January 1949.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 612,144. Robert K. Squire, doing business as Superior Scaffolding Co., Culver City, Calif. Filed Apr. 2, 1951.

Jiffy Jacks

The word "Jacks" apart from the mark as shown is disclaimed.
For Metal Brackets Adapted Adjustably To Accommodate Lengths of Lumber To Form a Trestle for Use.
Claims use since Nov. 30, 1950.

Ser. No. 636,216. The Eagle Lock Company, Terryville, Conn. Filed Oct. 6, 1952.

KROMITE

For Screws.
Claims use since Aug. 29, 1952.

Ser. No. 647,992. Calumet & Hecla, Inc., Calumet, Mich. Filed June 1, 1953.

QUALITUBE

For Welded Steel Tube.
Claims use since Apr. 3, 1953.

Ser. No. 648,080. Carbonic Dispenser, Inc., Canfield, Ohio. Filed June 2, 1953.

MIX-MONITOR

For Valves for Mixing and Dispensing Carbonated Beverages From Components Thereof.
Claims use since June 6, 1949.

Ser. No. 648,102. The Hansen Manufacturing Company, Cleveland, Ohio. Filed June 2, 1953. (Sec. 2f.)

HANSEN

For Hose Couplings.
Claims use since on or about May 6, 1948.

Ser. No. 648,155. Central Screw Company, Chicago, Ill. Filed June 3, 1953.

UNITAPED

For Screws.
Claims use since Feb. 9, 1953.

Ser. No. 648,311. Kay Manufacturing Corporation, Brooklyn, N. Y. Filed June 5, 1953. (Sec. 2f.)

SWING-CLEAR

For Bed Divan Hinges and Parts Thereof.
Claims use since on or about Mar. 28, 1941.

Ser. No. 648,859. Hydra-Power Corporation, Tuckahoe, N. Y. Filed June 16, 1953.

H.P.

For Hydraulic and Pneumatic Valves.
Claims use since Oct. 8, 1951.

Ser. No. 649,215. Cornell Manufacturing Co., Inc., Long Island City, N. Y. Filed June 23, 1953. (Sec. 2f.)

CORNELL

Applicant claims ownership of Registration No. 546,107.
For Airplane and Machine Parts—Namely, Screws, Bolts, and Nuts.
Claims use since Oct. 5, 1942.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 611,690. Crucible Steel Company of America, New York, N. Y. Filed Mar. 23, 1951. (Sec. 2f.)

NU-DIE

For Diecasting Die Steel in the Form of Rods, Bars, Plates, Billets, Slabs, Blocks, and Forgings.
Claims use since June 11, 1940.

Ser. No. 631,396. Armco Steel Corporation, Middletown, Ohio. Filed June 19, 1952. (Sec. 2f.)

ASBESTOS-BONDED

The word "Asbestos" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 545,742.
For Surface Impregnated and Coated Ferrous Metal Sheets.
Claims use since Mar. 2, 1936.

Ser. No. 641,104. Weiger Weed & Company, Detroit, Mich. Filed Jan. 21, 1953.

WW

Applicant claims ownership of Registration No. 545,567.
For Alloys in Bar, Rod, and Slab Form.
Claims use since on or about Mar. 2, 1946.

Ser. No. 641,105. Weiger Weed & Company, Detroit, Mich. Filed Jan. 21, 1953. (Sec. 2f as to "Weiger-Weed.")

WEIGER-WEED

Applicant claims ownership of Registrations Nos. 545,568 and 578,910.
For Alloys in Bar, Rod, and Slab Form.
Claims use since on or about Mar. 2, 1946.

Ser. No. 642,321. Tire Wire Products Co. Inc., Chicago, Ill. Filed Feb. 16, 1953.

STAPLGRIP

For Wire Designed To Prevent Skidding for Use in the Manufacture of Tires.
Claims use since on or about Jan. 9, 1953.

Ser. No. 643,622. Union Carbide and Carbon Corporation, New York, N. Y. Filed Mar. 13, 1953.

MANSILOY

For Ferrous Metal Alloys.
Claims use since about Jan. 30, 1953.

Ser. No. 648,184. National Steel Corporation, Wilmington, Del., and Weirton, W. Va. Filed June 3, 1953.



No claim is made to the representation of the ingot apart from the mark shown.
For Steel Products as Follows: Sheets and Strip, Hot Dipped and Electrolytic Tinplate, Galvanized Sheets, Electro-Zinc Coated Sheets, and Strip.
Claims use since Mar. 6, 1952.

CLASS 15

OILS AND GREASES

Ser. No. 563,686. Mid-West Refineries, Inc., Grand Rapids, Mich. Filed Aug. 18, 1948. CONCURRENT USE with Registration No. 535,124 for the area comprising the United States, except for the States of Texas, New Mexico, Mississippi, Arkansas, Oklahoma, Colorado, Utah, and Arizona.

ATOMIC POWER

The word "Power" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 535,123.
For Lubricating Oils and Greases and for Gasoline and Hydrocarbon Fuels for Internal Combustion Engines.
Claims use since July 22, 1948.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 562,261. The B. F. Goodrich Company, New York, N. Y., assignee of Harmon Color Works, Inc. Filed July 27, 1948. (Sec. 2f.)

HARMON-IZE WITH HARMON COLORS

No claim is made to the word "Colors" apart from its use in the words "Harmon-ize With Harmon Colors."
For Dry and Paste Colors for the Preparation of Paints.
Claims use since 1935.

Ser. No. 637,398. Plains Chemical Company, Inc., Dodge City, Kans. Filed Oct. 30, 1952.

XIP-NOV

For Protective Coatings for Wood, and the Like, Comprising a Solution of Fire Retarding, Termite Controlling, and Wood Preserving Inorganic Chemicals.
Claims use since on or about Sept. 11, 1952.

Ser. No. 643,872. The Du-Lite Chemical Corporation, Middletown, Conn. Filed Feb. 13, 1953.

PHOSPRAY

For Phosphatizing Liquid for Use in Producing a Permanent Protective Phosphate Coating on Metal Articles, Consisting Principally of Phosphoric Acid Dissolved in a Non-Aqueous Liquid.
Claims use since Feb. 28, 1948.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 634,171. Jno. H. Swisher & Son, Inc., Jacksonville, Fla. Filed Aug. 19, 1952.

POM POM Quality OPERAS

No claim is made for the words "Quality Cigars" apart from the mark as shown.
For Cigars.
Claims use since Apr. 16, 1900.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 647,027. Ortho Pharmaceutical Corporation, Raritan, N. J. Filed May 14, 1953.

Ortho

Applicant claims ownership of Registrations Nos. 298,222, 387,080, and others.
For Gynecological Preparations Including Preparations for Feminine Hygiene in the Form of Creams and Jellies, Spermicidal Preparations, Vaginal Creams and Jellies, Douche Preparations, Preparations for Use in the Management of the Menopause, Preparations for the Treatment of Nausea and Vomiting, Preparations Used in the Treatment of Specific and Non-Specific Vaginitides, Enzymes and Enzyme Solutions, Injectable Estrogenic Solutions, Nutrient Buffers, Blood Fractions, Massage Cream, Antiseptic Cream, Nipple Cream; Veterinary Preparations Including Estrogenic Solutions, Preparations for the Preservation and Maintenance of Semen; Diagnostic Products Including Cellular Stains, Antibody Test Materials, Preparations for Use in Determining the Presence or Absence of Blood Factors and for Blood Typing and Culture Media for Microbes; and Albumen.
Claims use since Aug. 28, 1944.

CLASS 19

VEHICLES

Ser. No. 627,583. Larson Water Craft, Inc., Little Falls, Minn. Filed Apr. 4, 1952.

PLY-A-LUME

For Motorboats, Rowboats, Duckboats, and Canoes.
Claims use since Nov. 1, 1951.

Ser. No. 630,102. The Swartzbaugh Manufacturing Company, Toledo, Ohio. Filed May 22, 1952.

Odul

Applicant claims ownership of Registrations Nos. 78,747 and 536,621.
For Non-Electric Food and Utensil Serving and Utility Trucks.
Claims use since in or about the summer of 1918.

Ser. No. 635,500. Twin Coach Company, Kent, Ohio. Filed Sept. 19, 1952. (Sec. 2f as to "Fageol.")

FAGEOL SUPER FREIGHTER

For Truck Bodies.
Claims use since Oct. 11, 1950.

Ser. No. 652,820. Autoette, Inc., Long Beach, Calif. Filed Sept. 8, 1953.

Golfmobile

For Small Automobiles.
Claims use since Nov. 15, 1952.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 606,721. Ohmite Manufacturing Company, Chicago, Ill. Filed Nov. 21, 1950. (Sec. 2f.)

WIREWATT

For Electrical Circuit Control Elements—Namely, Resistors.
Claims use since 1933.

Ser. No. 617,281. Thomas A. Edison, Incorporated, West Orange, N. J. Filed Aug. 3, 1951.

TELEVOICE

For Equipment for Transmitting Stations of Remote Control Dictation Systems, Including Handset (Transmitter and Receiver) Phone Base, and Signal Lights.
Claims use since June 27, 1951.

Ser. No. 618,093. Mall Tool Company, Chicago, Ill. Filed Aug. 25, 1951. (Sec. 2f.)

Mall Polisher

The word "Polisher" is disclaimed. Applicant claims ownership of Registration No. 372,262.
For Electrically Operated Portable Polishing, Surfacing, and Buffing Tools.
Claims use since Apr. 30, 1940.

Ser. No. 621,767. The Edwin F. Guth Company, St. Louis, Mo. Filed Nov. 28, 1951.

GRATELITE

For Light Diffusers for Lighting Fixtures.
Claims use since Oct. 30, 1951.

Ser. No. 623,013. Royal Electric Company, Inc., Pawtucket, R. I. Filed Dec. 29, 1951.

SHOK-ABSORBER

For Plug Fuses; Non-Renewable Cartridge Type Fuses; Renewable Cartridge Type Fuses; and Other Mechanical Devices Intended for Inclusion in an Electrical Circuit for the Purpose of Transmitting Power or Circuit Protection—Namely, Plugs, Switches, Sockets, and Fuses.
Claims use since Nov. 1, 1951.

Ser. No. 626,234. Ernco Products, Inc., Ann Arbor, Mich. Filed Mar. 11, 1952.

BUG GIT

No right of registration is claimed hereby in "Bug" as used separate and apart from the mark as shown.
For Electric Vaporizers.
Claims use since July 1951.

Ser. No. 627,193. The James Knights Company, Sandwich, Ill. Filed Mar. 28, 1952.

For Quartz Piezoelectric Crystals, Semi-Finished Quartz Piezoelectric Crystal Blanks, Electrode-Containing Holders for Utilizing Piezoelectric Crystals in Electrical Circuits, Units Consisting of Quartz Piezoelectric Crystals Mounted in Electrode-Containing Holders Therefor, Electrically Heated Thermostatically Controlled Ovens Containing Electrodes for Utilizing Quartz Piezoelectric Crystals in Electrical Circuits, Units Consisting of Quartz Piezoelectric Crystals Mounted in Electrically Heated Temperature-Controlled Ovens.
Claims use since June 1943.

Ser. No. 630,845. Illinois Accessories Company, Chicago, Ill. Filed June 6, 1952.

IGNIT-O-GARDS

For High-Tension Spark Plug Cable Sets, Used for Weather-Proofing Spark Plugs.
Claims use since May 6, 1952.

Ser. No. 633,047. Fiat Societa per Azioni, Turin, Italy. Filed July 25, 1952.

FIAT

Applicant claims ownership of Italian Registration No. 101,700, dated Apr. 12, 1951; and United States Registration No. 160,861.
For Electrical Apparatus, Devices, and Supplies—Namely, Dynamos, Alternators; Resistances; Magnetos; Apparatus for Telegraphs, Telephones, and Wireless Telegraphs—Namely, Receiver and Transmitter Sets, Central Station Equipment, Supports, Switches, Relays, Repeaters, Anti-Induction Devices, Switchboard Keys, Tapes, Instrument Tables, Listening and Ringing Keys and Parts Therefor; Electric Lamps; Lamp-Stands; Globes and Bulbs; Motors; Cables and Wires for Electric Uses; Transformers; Carbons for Electric Lamps; Insulators; Insulation Materials; Electric Cells; Storage Batteries; Electric Phonographs and Gramophones; Radios; and Television Receivers and Transmitters.

Ser. No. 633,232. Ward Leonard Electric Company, Mount Vernon, N. Y. Filed July 29, 1952.

MAG-A-TROL

For Compensator for Control of the Generator Frequency and Output Voltage of a Motor-Generator Set by Varying the Excitation of the Motor Field for the Frequency Control and the Generator Field for the Voltage Control.
Claims use since June 3, 1952.

Ser. No. 634,666. TelAutograph Corporation, New York, N. Y. Filed Aug. 29, 1952.

Instan-Form

The word "Form" is disclaimed apart from the mark as shown in the drawing.
For Telescriber Facsimile Communication Apparatus and Parts Thereof for the Electrical Transmission, Reception, and Recording of Graphic Matter.
Claims use since Feb. 1, 1952.

Ser. No. 634,812. Swiveller Company, Inc., New York, N. Y. Filed Sept. 3, 1952.

DEXTRA-LITES

The word "Lites" is disclaimed apart from its use in connection with the trade-mark as shown.
For Fluorescent Lighting Fixtures and Parts Thereof.
Claims use since Mar. 1, 1952.

Ser. No. 635,931. Premier Radio Enterprises, Inc., St. Louis, Mo. Filed Sept. 29, 1952.

DUPLI-TAPE

The word "Tape" is disclaimed apart from the mark as shown.
For Packaged Magnetic Recordings of Sound Programs.
Claims use since Sept. 23, 1952.

Ser. No. 636,440. The Stanley Works, New Britain, Conn. Filed Oct. 9, 1952.

MIGHTY MIDGET

Applicant claims ownership of Registration No. 238,631.
For Small Electric Drills.
Claims use since Aug. 15, 1952.

Ser. No. 638,474. Channel Master Corporation, Ellenville, N. Y. Filed Nov. 22, 1952.

FUTURAMIC

For Television and Frequency Modulation Antennas.
Claims use since July 17, 1952.

Ser. No. 638,631. Automo Corporation, Saginaw, Mich. Filed Nov. 26, 1952.

AUTOMO

For Automatic Starter Switches.
Claims use since Aug. 21, 1952.

Ser. No. 639,610. Atlas Supply Company, Newark, N. J. Filed Dec. 17, 1952.

Microplastic

For Storage Battery Separators.
Claims use since Dec. 4, 1952.

Ser. No. 640,474. Price Battery Corporation, Hamburg, Pa. Filed Jan. 7, 1953.

TRI-LOY

For Storage Battery Grids.
Claims use since Jan. 2, 1953.

Ser. No. 644,435. Naxon Utilities Corporation, Chicago, Ill. Filed Mar. 30, 1953.

MENUSTAT

For Electric Cooking Apparatus, Electric Frying Pans, Electric Chicken Fryers, Electric Deep-Fat Fryers, Electric Griddles, and Electric Grills.
Claims use since Jan. 15, 1953.

Ser. No. 644,438. Newcomb Audio Products Company, Los Angeles, Calif. Filed Mar. 30, 1953. (Sec. 2f.)

Newcomb

For Electrical Apparatus—Namely, Amplifiers; Radio Receivers; Phonographs and Public Address Systems; Microphones; Speakers and Cabinets Therefor; Turntables and Record Changers; Tone Generators; Transformers; Impedance Networks and Their Controls; Remote Control Units for Microphones, Amplifiers, and Phonographs; Cabinets for Amplifiers, Radio Receivers, Speakers, and Controls Therefor; Panels Cooperable With the Cabinets for Mounting Speakers, Amplifiers, Radio Receivers, Phonographs, and Key Levers; Portable Phonographs and Portable Public Address Systems.
Claims use since February 1938.

Ser. No. 644,932. Scovill Manufacturing Company, Waterbury, Conn., and Racine, Wis. Filed Apr. 8, 1953.

DRINKMASTER

For Electrically Operated Drink Mixers.
Claims use since Mar. 29, 1930.

Ser. No. 647,249. Whitaker Cable Corporation, North Kansas City, Mo. Filed May 18, 1953. (Sec. 2f.)

WHITAKER

For Ignition Sets for Internal Combustion Engines and Parts of Said Sets.
Claims use since 1921.

Ser. No. 647,325. Unit Parts Company, Oklahoma City, Okla. Filed May 19, 1953.

UP

Applicant claims ownership of Registration No. 568,564.
For Rebuilt Automotive Parts—Namely, Generators, Starters, Armatures, Starter Drives, and Distributors.
Claims use since March 1945.

Ser. No. 647,442. The Quaker Oats Company, Chicago, Ill. Filed May 21, 1953.

CORONATRON

For Electrostatic Separator Machines and Power Units Therefor.
Claims use since July 17, 1952.

Ser. No. 647,822. Willard Storage Battery Company, Cleveland, Ohio. Filed May 27, 1953.

WEATHERMASTER

For Storage Batteries.
Claims use since Mar. 4, 1953.

Ser. No. 648,409. Kissner Industries, Inc., Madison, Wis. Filed June 8, 1953.

TRI-WONDER LAMP

The word "Lamp" is disclaimed apart from the mark as shown.
For Electric Lamps.
Claims use since May 19, 1953.

Ser. No. 648,550. Lear, Incorporated, Grand Rapids, Mich. Filed June 10, 1953.

LEARTRAN

For Auto-Transformer for Reducing or Increasing an Electrical Potential and Having Means for Varying the Primary-Secondary Ratio.
Claims use since May 22, 1953.

Ser. No. 648,758. Ipsen Industries, Inc., Rockford, Ill. Filed June 15, 1953.

SILGRAIN

For Granular Material Used as Insulation in Electric Heating Apparatus.
Claims use since Apr. 14, 1953.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 608,168. Kabushiki Kaisha Masudaya Saito Boeki, Tokyo, Japan. Filed Dec. 28, 1950.

The mark is a monogram composed of the two letters "T" and "M," of which "T" stands for "toy" and "M" for "Masudaya." Applicant claims ownership of Japanese Registration No. 383,327.
For Mechanical Toys, Dolls, Blocks, Toys Made of Cloth, Rubber, Celluloid, or Tinplate.

Ser. No. 624,164. Stephanie Playthings, Inc., New York, N. Y. Filed Jan. 26, 1952.

"Stuf-Funny"

Applicant disclaims the term "Stuf" apart from the mark as shown.
For Dolls.
Claims use since Dec. 12, 1951.

Ser. No. 632,116. Drum Equipment Corporation, Union, N. J. Filed July 3, 1952.

ATOMIC SPACE RANGER MLRL-X947

The drawing is lined for the colors red and blue.
For Coin Operated Amusement Apparatus, Simulating a Rocket, in Which an Operator Sits.
Claims use since May 17, 1952.

Ser. No. 641,346. Stroward, Inc., Atlanta, Ga. Filed Jan. 26, 1953.

BLACK LIGHT MAGIC

For Toys of the Detective Variety.
Claims use since on or about May 22, 1952.

Ser. No. 645,552. Davis Products, Inc., Beverly Hills, Calif. Filed Apr. 20, 1953.

TUF-LITE

For Juvenile Plastic Toys Adapted To Be Inflated and for Camping Mattresses Adapted To Be Inflated.
Claims use since Mar. 21, 1952.

Ser. No. 647,684. Charles Arliss, doing business as Premier Plastics Co., Brooklyn, N. Y. Filed May 26, 1953.

KIDQuatics

The term "Kid" is disclaimed apart from the mark as shown.
For Swim Feet.
Claims use since Sept. 15, 1952.

Ser. No. 650,570. Amerco Game Products, Hollywood, Calif. Filed July 21, 1953.

GOMO-Q

For Puzzle Game Embodying a Marked Playing Field and Several Sets of Differently Colored Marbles.
Claims use since July 6, 1953.

Ser. No. 652,964. Metal Craft, Inc., Fort Lauderdale, Fla. Filed Sept. 9, 1953.

CLUB-CAR

For Caddy Carts.
Claims use since July 27, 1953.

Ser. No. 653,011. Joubert Lee Greer, Midland, Tex. Filed Sept. 10, 1953.

CHECKERLUCK

For Game Played With Movable Pieces.
Claims use since May 1, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 615,594. H. Williams & Son Limited, St. Albans, England. Filed June 22, 1951.

LARK
ESTABLISHED 1833

The wording "Established 1833" is disclaimed apart from the mark as shown. Applicant claims ownership of British Registrations Nos. 643,599, dated Jan. 9, 1946, 643,600, dated Jan. 9, 1946, and 677,269, dated Feb. 22, 1949.
For Hand Tools—Namely, Chisels, Punches, Leather-Workers' Modelling Tools, Rivet Snaps and Burs, Engineers' Scrapers, Screwdrivers, Burnishers, Scribers, Spanners and Wrenches, Tube Cleaners, Tube Expanders, and Electric, Air and Water Motor Driven Portable Machines for Cleaning and Descaling Pipes; Cutting Tools Used Upon Machine Tools—Namely, Turning Tools, Tool-Bits, Countersinks and Boring Tools, Form Turning Tools, Knurling Tools and Holders, Milling Cutters of All Types, Tool Holders as Used Upon Machine Tools To Hold Cutting Tools, Tool Guides and Rests.

Ser. No. 623,204. Pearlduck, Inc., New York, N. Y. Filed Jan. 4, 1952.

The Powder BEAU BRUMMEL

Applicant claims ownership of Registration No. 343,665.
For Razors, Shears, Scissors, Knives of Base Metal and Hair Clippers.
Claims use since May 5, 1930.

Ser. No. 631,264. American Type Founders, Inc., Elizabeth, N. J. Filed June 17, 1952.

ADJUST-O-MATIC

No claim is made to the word "Adjust" apart from the mark as shown.
For Variable Speed Power Transmissions.
Claims use since July 1950.

Ser. No. 631,718. The Barry Corporation, Watertown, Mass. Filed June 25, 1952. (Sec. 2f.)

BARRYMOUNT

For Vibration, Shock and/or Sound Absorption Mountings for Minimizing and/or Isolating the Effects of the Same.
Claims use since September 1946.

Ser. No. 632,681. Mecha-Finish Corporation, Sturgis, Mich. Filed July 17, 1952.

MECHAMATIC

Applicant claims ownership of Registration No. 526,484.
For Machines Adapted To Utilize Abrasives, Grinding, Deburring, Burnishing, Polishing, and Coloring Compounds for Removing Burrs, Fins, and Other Abrasions From Various Items To Improve Their Condition.
Claims use since May 10, 1952.

Ser. No. 639,064. Mall Tool Company, Chicago, Ill. Filed Dec. 5, 1952.

2MG

For Portable Gasoline Engine Driven Chain Saws.
Claims use since June 2, 1952.

Ser. No. 640,443. Compagnie des Entreprises Industrielles, Paris, France. Filed Jan. 7, 1953.

C.E.I.
BABBITLESS

Applicant claims ownership of French Registration No. 422,092, dated Sept. 3, 1952.
For Grinding and Sieving Machines.

Ser. No. 640,876. Wittek Manufacturing Co., Chicago, Ill. Filed Jan. 16, 1953. (Sec. 2f.)

WITTEK

For Roll Feeds, Roll Stands, and Stock Straighteners for Punch Presses.
Claims use since on or about November 1927.

Ser. No. 641,091. Saco-Lowell Shops, Boston, Mass. Filed Jan. 21, 1953.

NEW ERA

For Textile Machinery—Namely, Spindles and Bobbins.
Claims use since May 8, 1950.

Ser. No. 647,338. Otis B. Bradway, doing business as Otis Bradway Company, New Castle, Ind. Filed May 20, 1953.

FLO-DRI

For Sump Pumps.
Claims use since Mar. 25, 1953.

Ser. No. 647,411. The Gillette Company, Gillette Park, Boston, Mass. Filed May 21, 1953.

TV

For Safety Razors and Safety Razor Blades.
Claims use since May 13, 1953.

Ser. No. 647,613. Gisholt Machine Company, Madison, Wis. Filed May 25, 1953.

GISHOLT

Applicant claims ownership of Registrations Nos. 56,496, 504,726, and others.
For Machines for Applying Seal Coverings to Capped Bottles.
Claims use since Feb. 15, 1946.

Ser. No. 647,614. Gisholt Machine Company, Madison, Wis. Filed May 25, 1953.

GISHOLT

Applicant claims ownership of Registrations Nos. 56,496, 504,726, and 504,727.
For Machines for Applying Seal Coverings to Capped Bottles and for Machine Tools—Namely, Lathes, Milling Machines, Boring Mills, Grinders, and Screw Machines.
Claims use since November 1905.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 611,306. Pressing Supply Company, Philadelphia, Pa. Filed Mar. 14, 1951.

EVERSAFE Homemaker

The applicant disclaims the word "Eversafe" alone and apart from the mark as shown.
For Ironing Board Pads and Ironing Board Pad Covers.
Claims use since Feb. 14, 1951.

CLASS 26

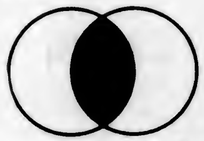
MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 630,822. American Instrument Company, Inc., Silver Spring, Md. Filed June 6, 1952.

MICRO FLEX

The abbreviation "Micro" is disclaimed apart from the mark as shown.
For Metering Pumps of the Piston Type.
Claims use since Mar. 2, 1951.

Ser. No. 631,575. Polaroid Corporation, Cambridge, Mass. Filed June 21, 1952.



Applicant claims ownership of Registrations Nos. 343,337, 398,918, and others.
For Print Coaters for Applying Protective Coatings to Photographic Reproductions.
Claims use since Aug. 31, 1951.

Ser. No. 631,777. Astra Trading Corporation, New York, N. Y. Filed June 26, 1952.

STELLAR

For Binoculars, Field Glasses, Opera Glasses, Magnifying and Reading Glasses, Microscopes, Sun Glasses, Spectacles, Barometers, Telescopes, and Micrometers.
Claims use since May 1, 1952.

Ser. No. 631,835. Wollensak Optical Company, Rochester, N. Y. Filed June 26, 1952.

MIRROSCOPE

For Telescopes.
Claims use since June 11, 1952.

Ser. No. 638,297. Israel Frohlich, doing business as Global Optical Company, New York, N. Y. Filed Nov. 19, 1952.

Global

For Spectacles, Sun Glasses, and Parts Thereof.
Claims use since Oct. 1, 1951.

Ser. No. 639,107. Coleman Engineering Company, Los Angeles, Calif. Filed Dec. 6, 1952.

DIGITIZER

For Electro-Mechanical Contact Setting Instrument for Indicating Position of a Rotatable Shaft.
Claims use since Oct. 7, 1952.

Ser. No. 641,249. Klimsch & Co., Frankfurt, Germany, and New York, N. Y. Filed Oct. 6, 1952.



For Drying Cabinets for Films and Plates, Plate and Film Holders, Offset Whirler for Sensitizing Plates, Printing Frames, Plate Coating Machines, Darkroom Lamps, Half-Tone Screens Process Cameras, and Projecting Devices Comprising a Filter, Lens, a Film or Plate Holder, and a Lamp.
Claims use since 1945 in Germany; and since 1936 in Germany as to the simulation of the iris; and since August 1950 in commerce between foreign nations and the United States.

Ser. No. 646,852. Decade Instrument Co., Caldwell, N. J. Filed May 12, 1953.

DECALATOR

For Direct Reading Decade Switching Oscillator Utilized in Connection With Radio and Television and Associated Equipment.
Claims use since June 1952.

Ser. No. 647,162. Compco Corporation, Chicago, Ill. Filed May 18, 1953.

Triad

For Stereoscopic Projectors.
Claims use since Apr. 6, 1953.

Ser. No. 648,064. U. S. Electrical Motors, Inc., Los Angeles, Calif. Filed June 1, 1953.

Visolube

For Liquid Level Gauge.
Claims use since Nov. 17, 1949.

Ser. No. 648,297. Da-Lite Screen Company, Inc., Chicago, Ill. Filed June 5, 1953.

WONDER-LITE

For Fabric for Motion Picture Screens.
Claims use since Aug. 12, 1949.

Ser. No. 648,708. Twentieth Century-Fox Film Corporation, New York, N. Y. Filed June 12, 1953.

CINEMASCOPE

For Motion Picture Films Synchronized With Sound, and Camera Lenses and Projection Lenses.
Claims use since Feb. 25, 1953.

Ser. No. 648,789. The Peerless Machinery Company, trading under the name and style of Muther Manufacturing Company, Boston, Mass. Filed June 15, 1953. (Sec. 2f.)

STOPMETER

For Instrument for Measuring Deceleration.
Claims use since Sept. 1, 1925.

Ser. No. 649,001. Keuffel & Esser Company, Hoboken, N. J. Filed June 18, 1953.

IDEAL

For Measuring Tapes.
Claims use since July 1952.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 647,941. Levy Jewelers, Inc., Savannah, Ga. Filed May 29, 1953.

Delta

For Watches.
Claims use since on or about May 2, 1953.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 647,173. Gemex Company, Union, N. J. Filed May 18, 1953.

BALALAIKA

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since May 5, 1953.

Ser. No. 647,174. Gemex Company, Union, N. J. Filed May 18, 1953.

ADAGIO

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since May 5, 1953.

Ser. No. 647,176. Gemex Company, Union, N. J. Filed May 18, 1953.

MASQUERADE

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since May 5, 1953.

Ser. No. 647,177. Gemex Company, Union, N. J. Filed May 18, 1953.

TRIBUTE

For Bracelets and Watch Bracelets and Watch Straps. Claims use since May 5, 1953.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 643,475. Iris Edwards, Inc., New York, N. Y. Filed Mar. 11, 1953.

Hair-Mate

For Hair Brushes Molded of Synthetic Plastic Material With the Brushing Elements Integral With the Back. Claims use since on or about Feb. 20, 1953.

Ser. No. 646,209. Empire Brushes, Inc., Port Chester, N. Y. Filed Apr. 30, 1953.

EMPIRE

Applicant claims ownership of Registrations Nos. 410,667 and 419,873.

For Floor Brushes, Garage Brushes, Street Push Brooms, Window Brushes, Counter Dusters, Draftsman's Dusters, Radiator Brushes; Wall Brushes, Venetian Blind Brushes, Carpet Sweeping Brushes, Rug Cleaning Scrubbing Brushes, Deck and Floor Scrub Brushes, Pot and Fender Brushes, Brass and Steel Wire Tire Brushes, Sanitary Brushes for Toilet Bowls, Plater's Brushes, Hair Brushes, Bath Brushes, Dental Plate Brushes, Nail Brushes, Clothes and Upholstery Brushes, Shoe Polishing Brushes, Shoe Daubers, Suede Brushes, Household Kitchen Brushes, Pastry Brushes, Pan Scouring Brushes, Dish Mops, Vegetable Brushes, Sink Brushes, Bottle Brushes, Baby Nipple Cleansing Brushes, Silver Polishing Brushes, Painters' Dusters, Calcimine Brushes; Whitewash Brushes, Acid Brushes, Paper Hangers Smoothing Brushes, Roof Brushes, Ceiling and Wall Brushes, Dusters, Cuspidor Brushes, Milk Bottle and Jar Brushes, Coffee Urn Cleaning Brushes, Dry Cleaners' Brushes, Billiard Table Brushes.

Claims use since March 1951.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 642,998. Servel, Inc., Evansville, Ind., and New York, N. Y. Filed Mar. 2, 1953.

Electric Wonderbar

The word "Electric" is disclaimed apart from the mark as shown.

For Refrigerators, Refrigerator Parts, Automatic Refrigerators, Automatic Refrigerating Parts, Refrigerating Systems, and Stationary and Portable Refrigerettes.

Claims use since August 1952.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 631,844. Bankers Box Company, Chicago, Ill. Filed June 27, 1952.

Liberty

Applicant claims ownership of Registration No. 194,528.

For Shelving Units for Storage Boxes or Drawers.

Claims use since Sept. 27, 1948.

Ser. No. 636,359. S. A. Hirsh Manufacturing Co., Skokie, Ill. Filed Oct. 8, 1952.

HIRSHWOOD

Applicant claims ownership of Registration No. 522,311.

For Shelves and Sets of Shelves.

Claims use since October 1948.

Ser. No. 637,794. Smith-Benny Sales Co. Inc., New York, N. Y. Filed Nov. 7, 1952.

"UTILATABLE"

For Folding Tables.

Claims use since Oct. 29, 1952.

Ser. No. 638,013. The Reflectone Corporation, Stamford, Conn. Filed Nov. 13, 1952.

GYRO MATIC

For Furniture—Namely, Chairs With Revolving Seat, Stools With Revolving Seat, Revolving Hassock Stools, Tables With Revolving Top.

Claims use since April 1950.

Ser. No. 644,713. Harry B. Baker, trading and doing business under the trade name and style of Harrisburg Bedding Company, Lemoyne, Pa. Filed Apr. 6, 1953.

BAKEREST

For Mattresses.

Claims use since in or about 1938.

Ser. No. 647,218. Paige E. Mulhollan Company, Inc., Fort Smith, Ark. Filed May 18, 1953.

℞

For Inner Spring Mattresses and Box Springs.

Claims use since May 1, 1953.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 618,012. Nathan Straus-Duparquet, Inc., New York, N. Y. Filed Aug. 23, 1951. (Sec. 2f.)

Welsbach

For Gas-Heated Broilers and Griddles.

Claims use since Nov. 15, 1885.

Ser. No. 621,600. The Wagner-Green Company, Cleveland, Ohio. Filed Nov. 23, 1951.

Car WG Coddler

The word "Car" is disclaimed.

For Stationary Car Heaters To Be Installed in Garages To Maintain Vehicle Engines at a Minimum Temperature.

Claims use since Oct. 15, 1951.

Ser. No. 626,107. O'Keefe and Merritt Company, Los Angeles, Calif. Filed Mar. 7, 1952. (Sec. 2f.)

KOOL

KONTROL

For Gas Ranges.

Claims use since July 1946.

Ser. No. 632,506. The Creamery Package Mfg. Company, Chicago, Ill. Filed July 14, 1952.

Creamery Package

The word "Creamery" is disclaimed but only in so far as it may be considered as a separate word and without reference to conjoint use with "Package" as a unitary and exclusively used and owned trade-mark; and with the specific understanding that such disclaimer shall not prejudice or affect applicant's now- or hereafter-existing rights in the disclaimed matter.

For Dairy Products Processing Equipment—Namely, Pasteurizers, Heaters, Combined Heaters and Coolers.

Claims use since 1898.

Ser. No. 647,382. Unibilt Metal Products, Inc., Brooklyn, N. Y. Filed May 20, 1953.

COVERATOR

For Radiator Shields.

Claims use since Apr. 30, 1953.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 648,709. United States Rubber Company, New York, N. Y. Filed June 12, 1953.

SPIRALON

For Pulley Lagging of Rubber or Rubber and Fabric.

Claims use since March 1953.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 576,217. Louis A. Maas, doing business as Maas Organ Company, Los Angeles, Calif., assignor to Maas Organ Company, Los Angeles, Calif., a co-partnership. Filed Mar. 28, 1949. (Sec. 2f.)

Maas Cathedral Chimes

The word "Cathedral," apart from the mark as shown, is disclaimed. The word "Chimes," apart from the mark as shown, is disclaimed.

For Electrically Operated Musical Percussion Instruments—Namely, Instruments Using a Series of Tubular Chimes Operated by Electromagnetically Energized Strikers, as Well as Such Instruments Embodying Electronic Amplifiers.

Claims use since 1936.

Ser. No. 631,863. Hammond Research Corporation, Gloucester, Mass. Filed June 27, 1952.

ELECTROPIPE

For Electric Organs.

Claims use since May 3, 1952.

CLASS 37

PAPER AND STATIONERY

Ser. No. 574,978. Sanitary Paper Mills, Incorporated, East Hartford, Conn. Filed Mar. 5, 1949.

BABYETTES

For Absorbent Cleansing Tissues, Facial Tissues, Not Exceeding Five Inches by Nine Inches in Size, and Toilet Tissues.

Claims use since Jan. 15, 1935.

Ser. No. 635,522. The Cromwell Paper Company, Chicago, Ill. Filed Sept. 20, 1952.

TINPAK

For Embossed Re-Enforced Asphalt Laminated Waterproof Paper for Wrapping and Packaging Purposes.
Claims use since July 18, 1952.

Ser. No. 640,696. The Sangamon Company, Taylorville, Ill. Filed Jan. 13, 1953.

Starbright

For Writing Paper and Envelopes.
Claims use since Dec. 13, 1952.

Ser. No. 647,491. Martha C. Ferguson, Stow, Mass. Filed May 22, 1953.

Spindle Hill

For Notepaper.
Claims use since May 6, 1953.

Ser. No. 648,087. Crown Zellerbach Corporation, San Francisco, Calif. Filed June 2, 1953.

CHIFFON

Applicant claims ownership of Registrations Nos. 234,041, 507,000, and 573,236.
For Paper Towels.
Claims use since Mar. 20, 1953.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 614,877. Harry H. Hollister, Mountain View, Calif. Filed June 7, 1951.

TANGLE TOWNS

The word "Towns" is disclaimed apart from the mark as shown.
For Newspaper Copy Containing Puzzles, Historical Data and General Information, Prepared for Distribution by Others, and Designed To Promote the Sale of Subscriptions to Newspapers.
Claims use since Jan. 7, 1940.

Ser. No. 629,238. Fairchild Publications, Inc., New York, N. Y. Filed May 6, 1952. (Sec. 2f.)

Supermarket News

For Weekly Newspaper.
Claims use since Apr. 21, 1952.

Ser. No. 629,515. Presente, Inc., San Juan, P. R. Filed May 10, 1952.

presente

For Weekly News Magazine in the Spanish language.
Claims use since Oct. 5, 1951.

Ser. No. 635,535. Industrial Tape Corporation, North Brunswick Township, Middlesex County, N. J., now by change of name Permacel Tape Corporation. Filed Sept. 20, 1952. (Sec. 2f.)

PAINT SHOP DIGEST

For Publications Issued From Time to Time.
Claims use since Mar. 15, 1945.

Ser. No. 635,881. George Neil, North Bergen, N. J. Filed Sept. 27, 1952.

modern teen

For Weekly and Monthly Publications Under Various Titles, Which Titles Are Periodically Selected Under Applicant's Sponsorship.
Claims use since Sept. 15, 1952.

Ser. No. 637,903. Belnap & Thompson, Inc., Chicago, Ill. Filed Nov. 12, 1952.

MR. HOLLY

"Mr. Holly" is the name of a cartoon character depicted in the advertising material.
For Sales Campaign Mailing Set, Sold as Such.
Claims use since Aug. 10, 1952.

Ser. No. 640,053. The Sporting News Publishing Company, Inc., doing business as Charles C. Spink and Son, St. Louis, Mo. Filed Dec. 26, 1952. (Sec. 2f.)

The All-Sports News

Applicant claims ownership of Registration No. 319,108.
For Section of Weekly Publication, Which Appears Every Week During December, January, and February of Each Year.
Claims use since Dec. 17, 1947.

Ser. No. 640,134. The Sporting Goods Publishing Company, St. Louis, Mo. Filed Dec. 29, 1952. (Sec. 2f.)

THE DEALER'S DIRECTORY

No claim is made to the term "Directory" apart from the mark shown on the drawing. Applicant claims ownership of Registrations Nos. 319,108, 534,819, and others.
For Yearly Directory.
Claims use since 1923.

Ser. No. 640,335. Martin Fromm, Kansas City, Mo. Filed Jan. 5, 1953.

Jobber's TELESCOPE

Applicant disclaims any exclusive appropriation of the term "Jobber's."
For Trade Publication Prepared for Distribution by Others.
Claims use since Feb. 15, 1952.

Ser. No. 643,835. Helms Products, Inc., Grand Rapids, Mich. Filed Mar. 18, 1953.

HELMSCENE

For Enlarged Photographic Reproductions and Framed Photographs.
Claims use since on or about Jan. 1, 1950.

Ser. No. 645,251. National Automobile Association, Inc., Atlanta, Ga. Filed Apr. 14, 1953.

NATIONAL AA AUTO ASS'N

No exclusive claim is made to the word "Auto" apart from the mark as shown on the drawing.
For Publication Issued From Time to Time.
Claims use since Jan. 23, 1953.

Ser. No. 645,692. Galaxy Publishing Corp., New York, N. Y. Filed Apr. 22, 1953.

BEYOND FANTASY FICTION

Applicant disclaims the descriptive word "Fiction."
For Magazines.
Claims use since Apr. 20, 1953.

Ser. No. 647,102. Joe Austell Small, doing business under the firm name of Sportsman Publishing Company, Austin, Tex. Filed May 15, 1953.

True West

For Quarterly Publication.
Claims use since Apr. 23, 1953.

Ser. No. 647,417. Hunt Publications Inc., New York, N. Y. Filed May 21, 1953.

INSIDE ADVERTISING

Applicant disclaims any exclusive right in the word "Advertising" except as a part of the entire trade-mark.
For Weekly Trade Publication.
Claims use since Nov. 1, 1950.

Ser. No. 647,519. John Thomas O'Brien, Oakland, Calif. Filed May 22, 1953.

Credo

For Comic Strip.
Claims use since Apr. 1, 1953.

Ser. No. 647,713. Peek-A-Boo! Publishers, Tucson, Ariz. Filed May 26, 1953.

Peek-a-Boo!

For Monthly Magazine.
Claims use since May 7, 1953.

Ser. No. 647,844. Hearst Publishing Company, Inc., New York, N. Y. Filed May 28, 1953.

MIRRO-RAMA
MIRRO-RAMA

For Regular Newspaper Feature, Section or Department Published Weekly.
Claims use since on or about May 17, 1953.

Ser. No. 647,870. The New Yorker Magazine, Inc., New York, N. Y. Filed May 28, 1953.

CLEAR DAYS ON THE POLITICAL SCENE

For Magazine Column.
Claims use since Mar. 15, 1952.

Ser. No. 648,027. Fay A. Lewis, New York, N. Y. Filed June 1, 1953.

ENLIGHTENED-SELF — INTEREST

For Publications Printed From Time to Time.
Claims use since 1947.

Ser. No. 648,497. The Parents' Institute, Inc., New York, N. Y. Filed June 9, 1953.

PLAYCRAFT

For Magazine Published Quarterly.
Claims use since May 8, 1953.

Ser. No. 648,641. American Tag Company, Chicago, Ill. Filed June 12, 1953.

Lusterline

For Printed Booklets, Tags, and Labels.
Claims use since June 1, 1953.

Ser. No. 648,877. The New American Library of World Literature, Inc., New York, N. Y. Filed June 16, 1953.

SIGNET BOOKS

No claim is made to the exclusive right to the use of the word "Books" apart from the mark shown. Applicant claims ownership of Registrations Nos. 511,927, 527,266, and others.
For Books.
Claims use since May 11, 1953, as to the mark shown; and since Feb. 18, 1948, as to the mark "Signet."

Ser. No. 649,360. Ruth Gilbert, Brookside, Mendham Township, Morris County, N. J. Filed June 25, 1953.

your family and mine

For Newspaper Column.
Claims use since on or about Apr. 2, 1952.

CLASS 39

CLOTHING

Ser. No. 354,025. Kaylon Incorporated, New York, N. Y. Filed Apr. 7, 1948.

Tommierobe

Applicant claims ownership of Registrations Nos. 335,848, 352,190, 400,463, 414,610, 421,375, 421,530, and 429,758.
For Pajamas, Pajama Coats, Beach Coats, Smock Coats, Utility Coats, and Bath Robes for Ladies.
Claims use since February 1943.

Ser. No. 560,494. Charles Mosel, Chicago, Ill. Filed June 30, 1948.

"MODERN TEMPO"

For Men's Apparel: Neckties, Outer Shirts, Hosiery, Underwear, Pajamas, Suits, Sport Jackets, Slacks, Outer Coats, Hats, Handkerchiefs, Sweaters, and Rain Coats; and the Following Women's Apparel, Scarfs, Sweaters, Coats, and Rain Coats.
Claims use since June 1946.

Ser. No. 610,230. Rex Shoe Company, Inc., Long Island City, N. Y. Filed Feb. 17, 1951.

Thrill-mates

Applicant disclaims use of the word "Mates" apart from the mark as shown.
For Women's and Children's Shoes.
Claims use since Dec. 22, 1950.

Ser. No. 617,016. Delira Corporation, Studio City, Calif. Filed July 27, 1951.

Wild Bill Hickok

The name "Wild Bill Hickok" is that of a historical character of the Old West.
For Boys' and Girls' Leather and Suede Jackets, Cloth Jackets, Western and Dress Slacks, Western Suits, Wash Slacks, Fabric Shirts, Western Wash Suits, Sweaters, T-Shirts, Swimming Suits, Pajamas, Underwear, and Chaps.
Claims use since Sept. 5, 1950.

Ser. No. 622,252. Deréta (London) Limited, London, England. Filed Dec. 8, 1951.

Stolemates

Applicant claims ownership of British Registration No. 690,081, dated June 22, 1950.
For Skirts, Stoles, and Scarves.

Ser. No. 622,722. Lerner Bros. Manufacturing Co., Inc., Baxter Springs, Kans., and Kansas City, Mo. Filed Dec. 20, 1951.

King Louie

For Sportswear—Namely, Bowling Shirts.
Claims use since Sept. 1, 1946.

Ser. No. 624,099. Miller Manufacturing Co., Inc., Joplin, Mo., and New York, N. Y. Filed Jan. 25, 1952.

TURNUPS

For Tots', Boys', and Girls' Dungarees.
Claims use since Jan. 14, 1952.

Ser. No. 624,136. Indiana Fur Co., Inc., Indianapolis, Ind. Filed Jan. 26, 1952.

Black Ebony

Applicant claims ownership of Registration No. 350,445.
For Mink Coats.
Claims use since Jan. 7, 1952.

Ser. No. 624,595. Wm. Gluckin & Co., Inc., New York, N. Y. Filed Feb. 6, 1952.

SHAPE INSURED

The drawing is lined for red. No claim is made to the words "Shape Insured" apart from the mark shown on the drawing.
For Girdles and Brassières.
Claims use since Nov. 1, 1950.

Ser. No. 626,252. L & W Brassiere Company, New York, N. Y. Filed Mar. 11, 1952.

SWEATER GIRL

Applicant claims ownership of Registration No. 434,560.
For Brassières.
Claims use since Jan. 2, 1952.

Ser. No. 630,690. Toddler Craft Co., Philadelphia, Pa. Filed June 3, 1952.

Toddler Craft

For Children's Coats, Legging Sets, and Snow Suits.
Claims use since Aug. 1, 1951.

Ser. No. 630,884. Corsetry, Inc., New York, N. Y. Filed June 7, 1952.

Entice

For Corsets, Girdles, and Foundation Garments.
Claims use since May 15, 1952.

Ser. No. 635,221. Even-Pul-Foundations, Inc., New York, N. Y. Filed Sept. 13, 1952.

Ripples

For Brassières, Girdles, Corselets, and Foundation Garments.
Claims use since May 13, 1952.

Ser. No. 635,338. Allure Shoe Corporation, Miami, Fla. Filed Sept. 17, 1952.

allures

For Women's Shoes, Cloth and Leather Gloves, and Cloth and Leather Belts.
Claims use since Apr. 22, 1952.

Ser. No. 636,927. Factory Outlet Shoe Store, El Paso, Tex. Filed Oct. 21, 1952.

London Trotters

The word "London" is disclaimed apart from the mark.
For Women's Shoes.
Claims use since Dec. 15, 1950.

Ser. No. 637,133. Lerner Coat and Suit Co., Philadelphia, Pa. Filed Oct. 24, 1952.

Seena Junior

The word "Junior" is disclaimed apart from the mark as shown on the drawing.
For Ladies' Suits and Coats.
Claims use since Sept. 1, 1952.

Ser. No. 637,400. Record Industrial Company, Philadelphia, Pa. Filed Oct. 30, 1952.

GUARD-AIRE
Custom Made

Applicant disclaims the descriptive expression "Custom Made." The man shown in the drawing is fanciful.
For Shoes for Men and Women.
Claims use since Sept. 10, 1951.

Ser. No. 638,684. The B. V. D. Company, Inc., New York, N. Y. Filed Nov. 28, 1952. (Sec. 2f.)

"NEXT TO MYSELF I LIKE 'B. V. D.' BEST"

For Clothing for Men as Follows: Undershirts, Undershorts, Athletic Shirts, T-Shirts, Night Shirts, Sport Shirts, Union Suits, Briefs, Drawers, Pajamas, Swim Trunks, Lounging Robes; Clothing for Women as Follows: Undershorts, Sport Shirts, Pajamas.
Claims use since on or about Jan. 1, 1944.

Ser. No. 638,743. United Glove and Mitten Co., Inc., St. Paul, Minn. Filed Nov. 28, 1952.

HUNTERS BUCKSKIN

Applicant disclaims the word "Buckskin" and the representation of a buck's head apart from the mark as shown.
For Gloves and Mittens Made of Leather.
Claims use since Apr. 7, 1952.

Ser. No. 639,118. Kay's-Newport, Inc., Providence, R. I. Filed Dec. 6, 1952.

Snewps

For Children's Shoes.
Claims use since Aug. 11, 1952.

Ser. No. 639,482. Lumbard-Watson Co., Auburn, Maine. Filed Dec. 15, 1952.

Kittymoc

For Moccasin Type Shoes for Women.
Claims use since Nov. 26, 1952.

Ser. No. 640,058. Westerland Products, Inc., Chicago, Ill. Filed Dec. 26, 1952.

"WEATHER PAL"

For Plastic Boots, Raincoats, and Rain Hats, for Men, Women, and Children.
Claims use since July 1, 1952.

Ser. No. 640,539. Wipette Sportswear, Inc., New York, N. Y. Filed Jan. 8, 1953.

"Wipette For Smart Lines in Design"

Applicant disclaims the descriptive words "For Smart Lines in Design" apart from the mark as shown.
For Women's, Misses', and Junior Misses' Dresses, Suits, Evening Gowns, Hostess Gowns, Bathing Suits, Sun Suits, Play Suits, Skirts, Slacks, Shorts.
Claims use since Jan. 23, 1952.

Ser. No. 641,650. Weyenberg Shoe Manufacturing Company, doing business under the name and style of Hubbard Shoe Co., Milwaukee, Wis. Filed Feb. 2, 1953.

NU-STEPS

For Babies' Shoes Made Principally of Leather.
Claims use since Jan. 14, 1953.

Ser. No. 641,797. Charles Pindyck, Inc., New York, N. Y. Filed Feb. 5, 1953.

KUD-L-WRAP

Apart from its relationship to the mark shown in the drawing, and only for the purpose of registration, the word "Wrap" is disclaimed.
For Bathrobes for Infants.
Claims use since Apr. 11, 1951.

Ser. No. 642,169. Rothmoor Corporation, Chicago, Ill. Filed Feb. 12, 1953.

"STRATOMIST"

For Women's and Misses' Coats.
Claims use since June 23, 1952.

Ser. No. 643,157. Nat Green, Inc., New York, N. Y. Filed Mar. 5, 1953.

WEATHERSTAT

For Ladies', Misses', and Juniors' Coats and Suits.
Claims use since Feb. 2, 1953.

Ser. No. 643,853. Perdue Manufacturing Company, Athens, Ga. Filed Mar. 18, 1953.

Keystone

Applicant claims ownership of Registration No. 546,667.
For Babies' Diapers.
Claims use since Mar. 5, 1952.

Ser. No. 644,342. Frank Pace, New York, N. Y., assignor to Frank Pace Co., New York, N. Y., a partnership. Filed Mar. 27, 1953.

Pace La Mode

No claim is made to the words "La Mode" apart from the mark as shown. Applicant claims ownership of Registration No. 409,426.
For Women's and Misses' Coats and Suits.
Claims use since Mar. 20, 1953.

Ser. No. 644,700. United States Rubber Company, New York, N. Y. Filed Apr. 3, 1953.

BOOSTERETTE

Applicant claims ownership of Registration No. 127,531.
For Women's Rubber Soled Shoes With Canvas or Leather Uppers.
Claims use since Dec. 11, 1950.

Ser. No. 644,718. Boepple Sportswear Mills, Inc., New York, N. Y. Filed Apr. 6, 1953.

VILON

For Slipover and Cardigan Sweaters for Women, Misses, and Girls.
Claims use since Jan. 28, 1952.

Ser. No. 645,571. International Shoe Company, St. Louis, Mo. Filed Apr. 20, 1953.

KEY LINE

Exclusive rights to the word "Line" are not claimed apart from the rest of the mark. Applicant claims ownership of Registration No. 64,222.
For Shoes of Leather, Fabric, and/or Combinations Thereof for Men, Women, and Children.
Claims use since Dec. 8, 1928.

Ser. No. 645,609. Victor Gloves Inc., New York, N. Y. Filed Apr. 20, 1953.

Quix

For Ladies' Foot Socks.
Claims use since January 1953.

Ser. No. 646,648. Baum's, Inc., Philadelphia, Pa. Filed May 8, 1953. (Sec. 2f.)

DeLuco

Applicant claims ownership of Registration No. 350,614.
For Ballet and Stage Dancing Slippers for Men, Women, and Children.
Claims use since on or about July 1, 1931.

Ser. No. 647,047. P. Schlampp & Son, Incorporated, Minneapolis, Minn. Filed May 14, 1953.

SNO-BUN

For Ladies' and Children's Hats.
Claims use since Dec. 7, 1952.

Ser. No. 647,255. Goldline Fashions Inc., New York, N. Y. Filed May 18, 1953.

Sky-Dawn

For Ladies' Coats.
Claims use since May 11, 1953.

Ser. No. 647,256. Miami Footwear Corporation, Miami, Fla. Filed June 3, 1953.

WEDGELINGS

For Ladies' and Misses' Shoes and Slippers.
Claims use since May 8, 1951.

Ser. No. 647,639. Lord Jeff Knitting Company, Incorporated, Brooklyn, N. Y. Filed May 25, 1953.

ZEPHSHIRE

For Men's Knitted Sweaters and Basque Shirts.
Claims use since Jan. 2, 1953.

Ser. No. 647,705. Monterey Coat Co., Inc., New York, N. Y. Filed May 26, 1953.

MONTÚR

For Ladies' Suits and Coats.
Claims use since Apr. 15, 1953.

Ser. No. 647,925. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed May 29, 1953.

Sno-steps

For Shoes Made of Rubber and Cloth for Men, Women, and Children.
Claims use since Feb. 13, 1953.

Ser. No. 648,012. English Imports, Inc., New York, N. Y. Filed June 1, 1953.

Bonnie Princess

For Boys' and Girls' Coats.
Claims use since Apr. 30, 1953.

Ser. No. 648,056. Skylon Corporation, New York, N. Y. Filed June 1, 1953.

SKYLOOM

For Ladies' and Misses' Nightgowns, Pajamas, and Slips.
Claims use since Jan. 14, 1952.

Ser. No. 648,273. L. Abelson & Son, Inc., New York, N. Y. Filed June 5, 1953.

Duradoon

For Boys', Infants', and Children's Wearing Apparel—Namely, Suits, Coats, Coat and Hat Sets, Topcoats, Overcoats, Sports Jackets, Novelty Jackets, Sports Suits, Slack and Legging Sets, Storm Coats and Storm Sets Consisting of a Storm Coat and a Storm Hat.
Claims use since May 21, 1953.

Ser. No. 648,298. Diener Knitting Mills, Inc., Leesport, Pa. Filed June 5, 1953. (Sec. 2f.)

DIENER

Applicant claims ownership of Registration No. 434,522.
For Men's and Boys' Knitted Undershirts, Briefs, T-Shirts and Sports Shirts, Also Woven Under Shorts; Women's, Girls', and Children's Knitted Vests, Unionsuits, and Panties.
Claims use since May 23, 1946.

Ser. No. 648,530. The Cambridge Rubber Company, Cambridge, Mass. Filed June 10, 1953.

VUL-CEL

For Soles for Boots and Shoes; and Boots and Shoes Made of Leather, Rubber, and/or Any Combination Thereof, for Men, Women, and Children.
Claims use since May 15, 1953.

Ser. No. 648,759. Jantzen Knitting Mills Inc., Portland, Oreg. Filed June 15, 1953.

SPECIAL DELIVERY

For Foundation Garments—Specifically, Girdles.
Claims use since Feb. 9, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 625,696. Societa Veneziana Conterie e Cristallerie, Murano (Venice), Italy. Filed Feb. 28, 1952.

SOCIETY VENEZIANA CONTERIE

No exclusive claim is made to the words "Society," "Veneziana," and "Conterie," except in the association shown on the drawing.
For Beads for Jewelry, Necklaces, Bracelets, Earrings, and Lamp Beads, All Made of Non-Precious Metal or Stones.
Claims use since July 1940; and since Sept. 29, 1951, in commerce between Italy and the United States.

Ser. No. 643,476. Iris Edwards, Inc., New York, N. Y. Filed Mar. 11, 1953.

Hair-Mate

For Integrally-Formed, Multiple Hair Combs Having Resilient Teeth Producing a Brushing Effect.
Claims use since on or about Feb. 20, 1953.

Ser. No. 648,752. H. Goodman & Sons, Inc., Jersey City, N. J., and New York, N. Y. Filed June 15, 1953.

Little Miss

For Non-Electric Hair Curlers, Barrettes, and Combs.
Claims use since on or about Oct. 16, 1952.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 647,362. Mespo Umbrella Co. Inc., New York, N. Y. Filed May 20, 1953.

Magic

For Umbrellas.
Claims use since May 11, 1953.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 625,241. Anderson, Clayton & Co., Houston, Tex. Filed Feb. 20, 1952.

Kuddleup

For Infants' Blankets.
Claims use since Jan. 12, 1928.

Ser. No. 629,682. Leo J. Murray, doing business under the name of Hayward Woolen Co., East Douglas, Mass. Filed May 14, 1952.

PARLIAMENT

For Textile Fabrics in the Piece of Wool, Worsted, and Combinations Thereof.
Claims use since Jan. 14, 1952.

Ser. No. 638,459. Webb Manufacturing Company, Philadelphia, Pa. Filed Nov. 21, 1952.

KP

For General Purpose Cleaning Cloth and Dishcloth.
Claims use since Nov. 11, 1952.

Ser. No. 644,684. Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Filed Apr. 3, 1953.

"MOHAWK CHEX-SOIL"

Applicant disclaims the descriptive phrase "Chex-Soil" apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 370,899 and 522,227.
For Textile, Woven, Woolen Rugs and Carpets.
Claims use since Oct. 29, 1952.

Ser. No. 644,848. Lebanon Fabrics Corporation, New York, N. Y. Filed Apr. 7, 1953.

WASHaLETTE

Applicant claims ownership of Registration No. 567,206.
For Textile Fabrics in the Piece Composed of Wool and Cotton.
Claims use since Mar. 10, 1953.

Ser. No. 649,058. Joseph Bancroft & Sons Co., Wilmington, Del. Filed June 19, 1953.

EVER-TRAINED

For Fabrics of Cotton and of Synthetic Fibers, Including Rayon and Nylon, and Combinations Thereof.
Claims use since June 5, 1953.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 563,431. Redlands Foothill Groves, Redlands, Calif. Filed Aug. 14, 1948. (Sec. 2f.)

SUMMIT

Applicant claims ownership of Registration No. 196,566.
For Fresh Oranges.
Claims use since Dec. 1, 1909.

Ser. No. 608,577. W-S Dari-Delite of Illinois, Inc., Joliet, Ill. Filed Jan. 9, 1951.

RAINBOW DELITES

For Fruit Flavored Toppings in Syrup Form for Frozen Dairy Confections in the Nature of Ice Cream, Custard, and the Like.
Claims use since Aug. 2, 1950.

Ser. No. 608,578. W-S Dari-Delite of Illinois, Inc., Joliet, Ill. Filed Jan. 9, 1951.

RAINBOW DERBIES

For Fruit Flavored Toppings in Syrup Form for Frozen Dairy Confections in the Nature of Ice Cream, Custard, and the Like.
Claims use since Aug. 2, 1950.

Ser. No. 608,579. W-S Dari-Delite of Illinois, Inc., Joliet, Ill. Filed Jan. 9, 1951.

RAINBOW DIPS

The word "Dips" is disclaimed apart from the mark as shown.
For Fruit Flavored Toppings in Syrup Form for Frozen Dairy Confections in the Nature of Ice Cream, Custard, and the Like.
Claims use since Aug. 2, 1950.

Ser. No. 629,278. Armour and Company, doing business under the trade style Jacob E. Decker & Sons, Chicago, Ill. Filed May 7, 1952. (Sec. 2f.)

DECKER

Applicant claims ownership of Registrations Nos. 279,231 and 306,352.

For Fresh Carcass Beef, Pork Shoulder Picnic, Bacon, Ham, Canned Meat Loaf, Canned Pork Tongue, Chili con Carne, Canned Cooked Ribs, Canned Pork Feet, Hamburger, Frankfurters, Pork Sausage, Bologna, Liver Sausage, Cervelat.

Claims use since Nov. 1, 1932.

Ser. No. 633,612. F & F Laboratories, Inc., Chicago, Ill. Filed Aug. 8, 1952.

POT-O-GOLD

For Popcorn in the Unpopped Form.

Claims use since July 28, 1952.

Ser. No. 637,357. Blue Mountain Prune Growers' Cooperative, Milton-Freewater, Oreg. Filed Oct. 30, 1952.

BLU-ORE

The lining appearing in the drawing is for shading purposes only.

For Fresh Fruits—Namely, Cherries, Prunes, and Apples.

Claims use since August 1952.

Ser. No. 642,415. The Manhattan Pickle Co. Inc., doing business under the name Manhattan Pickle Co., Chicago, Ill. Filed Feb. 18, 1953.

CHERIMATO

For Relish Containing Tomatoes, Vinegar, Salt and Spices, and Flavoring.

Claims use since on or about Dec. 12, 1952.

Ser. No. 643,398. Frederick C. Adams, doing business under the name of Wild Acres Turkey Farm, Steep Falls, Maine. Filed Mar. 10, 1953.

"Down East"

For Turkey Stuffing and Giblet Gravy.

Claims use since Sept. 1, 1952.

Ser. No. 644,080. Philip and Phyllis Voros, Los Angeles, Calif. Filed Mar. 23, 1953.

TRYM

For Special Formula Bread and Dry Bread Mix.

Claims use since Mar. 9, 1953.

Ser. No. 645,449. Vico Products Company, Chicago, Ill. Filed Apr. 16, 1953.

YEASTAMIN

Applicant claims ownership of Registration No. 567,551.

For Yeast Protein Hydrolysate for Use as a Food Flavoring Material.

Claims use since June 1940.

Ser. No. 645,537. H. P. Cannon & Son, Inc., Bridgeville, Del. Filed Apr. 20, 1953.

PISTOL



Applicant claims ownership of Registration No. 84,592.

For Canned Vegetables.

Claims use since Mar. 7, 1910.

Ser. No. 646,685. Harry A. Pyle, Osawatomie, Kans. Filed May 8, 1953.

HAPY-LE-MIXT



No claim is made to the word "Mixt" separate and apart from the mark as shown.

For Salad Dressing Mix, the Principal Ingredients Being Sugar, Salt, Mustard, Ginger, Tumeric, Pepper, Cereal, Nuts, Citrus, and Herbs.

Claims use since Feb. 7, 1953.

Ser. No. 648,483. Carr-Consolidated Biscuit Company, Wilkes-Barre, Pa. Filed June 9, 1953.

Happy Time

For Bakery Products—Namely, Assortment of Cookies, Wafers, Biscuits, and Sandwiches.

Claims use since May 25, 1953.

Ser. No. 648,725. The Borden Company, New York, N. Y. Filed June 15, 1953.

PILZNER

For Pasteurized Process Cheese Spread.

Claims use since Oct. 23, 1951.

Ser. No. 649,258. Stanislaus Food Products Company, Modesto, Calif. Filed June 23, 1953.



The picture shown in the drawing is that of "Susan Quartaroli," the minor daughter of Ralph J. Quartaroli, whose consent to use and registration is of record in this application. Applicant claims ownership of Registration No. 424,144.

For Canned Fruits, Canned Vegetables, Canned Fruit Cocktail, Canned Tomato Paste, and Canned Vegetable Juices.

Claims use since Apr. 17, 1945.

Ser. No. 651,843. Maggio Farms, Inc., King City, Calif. Filed Aug. 14, 1953.



For Fresh Carrots.

Claims use since Mar. 15, 1953.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 643,286. Edward and John Burke, Limited, Long Island City, N. Y., now by change of name Arthur Guinness Son & Co. Distributors, Ltd. Filed Mar. 9, 1953.



Applicant claims ownership of Registrations Nos. 68,645, 71,806, and others.

For Ale.

Claims use since Oct. 31, 1952.

Ser. No. 649,364. Griesedieck Bros. Brewery Company, St. Louis, Mo. Filed June 25, 1953.



Applicant claims ownership of Registration No. 308,329.

For Beer.

Claims use since Dec. 1, 1951, as shown; and since 1912 in another style.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 643,836. The Hettrick Manufacturing Company, Toledo, Ohio. Filed Mar. 18, 1953.

Town and Country

For Canvas Awnings.

Claims use since Feb. 4, 1953.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 619,229. Cheri Inc., Wichita, Kans. Filed Sept. 26, 1951.

Lip lovely

The word "Lip" is disclaimed but only in so far as it may be considered as a separate word and without reference to conjoint use with "lovely" as a unitary and exclusively used and owned trade-mark; and with the specific understanding that such disclaimer shall not prejudice or affect applicant's now- or hereafter-existing rights in the disclaimed matter.

For Lipsticks.

Claims use since Aug. 20, 1951.

Ser. No. 629,678. Milkmaid Inc., New York, N. Y. Filed May 14, 1952.

Coloristic

For Lipstick and Nail Polish.

Claims use since Sept. 21, 1950.

Ser. No. 629,914. R. R. Ramires, doing business as Tendresse Cosmetics, San Francisco, Calif. Filed May 19, 1952.

Tendresse

For Hand Cream, All Purpose Cream, Hand Lotion, Sun-Tan Oil, Facial and Body Oil, Facial Pack, and Hair Conditioning Preparation.

Claims use since July 17, 1949.

Ser. No. 634,834. Arthur Bevan, doing business as Bevan Beauty Products, Chicago, Ill. Filed Sept. 4, 1952. (Sec. 2f.)

Kut•No•Mor

Applicant claims ownership of Registration No. 425,467.

For Hair Dye Stain Remover and Cuticle Softener Used for Cosmetic Purposes.

Claims use since Feb. 25, 1942.

Ser. No. 642,033. Jacques Helm, Societe Anonyme, Paris, France. Filed Feb. 10, 1953.

Ariane

The name shown in the drawing is the French spelling of the mythological figure Ariadne.

For Perfumes.

Claims use since Jan. 16, 1953, in France; and since Jan. 16, 1953, in commerce between France and the United States.

Ser. No. 644,153. Laboratoires Vitapointe, Lyon, France. Filed Mar. 16, 1953.

Vitapointe

Applicant claims ownership of French Registration No. 24,348, dated Oct. 10, 1946.

For Cream Preparation for Application to the Hair With Fingers and/or Brush To Embellish the Hair, Counteract Dryness, Assist in Dressing and Maintaining the Coiffure, Etc.

Ser. No. 647,759. Cigogne, Inc., New York, N. Y. Filed May 27, 1953.

Cub Room

For Cologne for Men.

Claims use since May 18, 1953.

SERVICE MARKS

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 637,383. Mercury Messenger Corporation, New York, N. Y. Filed Oct. 30, 1952.



The applicant disclaims any right to the words "Speed" and "Service."

For Delivery of Packages by Foot Messenger and Motor Vehicle.

Claims use since Jan. 2, 1942.

CLASS 106

MATERIAL TREATMENT

Ser. No. 636,801. Protexol Corporation, Kenilworth, N. J. Filed Oct. 17, 1952.

CUPRISOTE

For Chemically Treating Lumber, Wood, Plywood and Veneer To Protect the Same Against Decay, Mildew, Fungus, Marine Organisms, and Insects.

Claims use since Aug. 26, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

583,250. Internal Combustion Engines and Parts Thereof. Willys-Overland Motors, Inc., Toledo, Ohio, assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania.
Filed Oct. 2, 1947, Serial No. 536,572. Published Aug. 11, 1953. Class 23.

583,251. Electrically Operated, Automatic Machines for Manufacturing Set-up Paper Boxes and in Which an Adhesive Coating Is Applied to a Paper Wrap, Etc. New Jersey Machine Corporation, Hoboken, N. J.
Filed Feb. 17, 1948, Serial No. 549,942. Published July 7, 1953. Class 23.

583,252. Textile Machinery or Apparatus Such as Gill Boxes. The Warner & Swasey Company, Cleveland, Ohio.
Filed May 1, 1948, Serial No. 556,044. Published July 21, 1953. Class 23.

583,253. Lager Beer. John Labatt Limited, London, Ontario, Canada.
Filed Jan. 5, 1949, Serial No. 571,647. Published Sept. 8, 1953. Class 48.

583,254. Caps and Closure Seals for Bottles, Cans, and Jars, and Containing Materials Other Than Dairy Products. Aluminum Seal Company, Inc., Richmond, Ind., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania.
Filed Jan. 27, 1949, Serial No. 572,887. Published Sept. 1, 1953. Class 50.

583,255. Glassware and Crystal Ware—Namely, Beakers; Bon Bon Dishes; Etc. N. V. Kristalunie Maastricht, Maastricht, Netherlands.
Filed May 25, 1949, Serial No. 579,508. Published Dec. 30, 1952. Class 33.

583,256. Sheen Rinse, Cold Wave Solution, Cream Oil Solution, Oil Solution for Use as a Permanent Waving Solution, and Neutralizer Consisting of a Solution To Neutralize the Effects of a Cold Wave Solution, Etc. Gilda Audrey Products, Inc., New York, N. Y.
Filed June 29, 1949, Serial No. 581,240. Published Dec. 18, 1951. Class 51.

583,257. Portable Fire Extinguishers. Alexander E. Brenner, Columbus, Ohio.
Filed Oct. 3, 1949, Serial No. 585,697. Published July 7, 1953. Class 23.

583,258. Power-Operated Sickle-Bar Mowing Machines Adapted To Be Carried by an Operator. Hofco, Inc., Richmond, Ind.
Filed Oct. 17, 1949, Serial No. 586,412. Published Aug. 11, 1953. Class 23.

583,259. Hand Tools, Particularly Heavy Hand Tools—Namely, Sledges, Hammers, Etc. Warren Tool Corporation, Howland, Ohio.
Filed Nov. 18, 1949, Serial No. 588,068. Published July 14, 1953. Class 23.

583,260. Refractory Brick Used in the Iron and Steel Industry as Ladle Brick and for Other Refractory Purposes. Illinois Clay Products Company, Joliet, Ill.
Filed Nov. 25, 1949, Serial No. 588,301. Published Sept. 8, 1953. Class 12.

583,261. Fruit Preserves. Orchard Products Company, Chicago, Ill.
Filed Dec. 16, 1949, Serial No. 589,466. Published Sept. 8, 1953. Class 46.

583,262. Watchmakers' and Watch Repairmen's Tools and Supplies — Namely, Lathes and Tweezers. Emil Leichter, New York, N. Y.
Filed Jan. 23, 1950, Serial No. 591,300. Published Aug. 25, 1953. Class 23.

583,263. Water Purification Compound Made Primarily From Dolomite Stone. Magno-Syn-Werk, G. m. b. H., Duisburg am Rhein, Germany.
Priority under Sec. 44(d). German Registration No. 616,843, filed Sept. 12, 1949.
Filed Mar. 10, 1950, Serial No. 593,734. Published Sept. 15, 1953. Class 6.

583,264. Closure Caps. Anchor Hocking Glass Corporation, Lancaster, Ohio.
Filed Apr. 12, 1950, Serial No. 595,584. Published Aug. 25, 1953. Class 50.

583,265. Frozen Coated Ice Cream Bars. Ranger Ice Cream Company, Washington, D. C., assignor to William R. Howell, doing business as Ranger Ice Cream Company, Arlington, Va.
Filed May 2, 1950, Serial No. 596,751. Published Sept. 8, 1953. Class 46.

583,266. Loose Leaf Binders; Writing Paper; Lead Pencils; Index Cards; Stenographers' Notebooks; Composition Books; and File Folders. Emanee Office Supply Co., Chicago, Ill.
Filed June 27, 1950, Serial No. 599,820. Published Sept. 1, 1953. Class 37.

583,267. Diaphragm-Operated Valves, Diaphragm-Operated Reducing Valves, Diaphragm-Operated Pilot Regulating Valves, Diaphragm-Operated Regulating Valves, Diaphragm-Operated Control Pilots, Internal Pilot-Operated Valves, and Piston-Operated Valves. Leslie Co., Lyndhurst, N. J.
Filed July 12, 1950, Serial No. 600,542. Published July 7, 1953. Class 23.

583,268. Textile Ribbons Made of Synthetic or Natural Fibers or Combinations Thereof. Burlington Mills Corporation, Greensboro, N. C.
Filed July 21, 1950, Serial No. 601,018. Published Sept. 15, 1953. Class 42.

583,269. Solvent Recovery Machines for Recovering Cleaning Solvents in Dry Cleaning Operations. International Projector Corporation, Bloomfield, N. J., assignee of Sec-O-Matic Corporation.
Filed Aug. 17, 1950, Serial No. 602,340. Published Sept. 22, 1953. Class 24.

583,270. Wallpaper. Asam Wallpapers, Inc., Philadelphia and Reading, Pa.
Filed Oct. 21, 1950, Serial No. 605,249. Published Sept. 1, 1953. Class 37.

583,271. Vehicle Engine Bearings and Mufflers for Gasoline Vehicles. Pan American Trade Development Corp., New York, N. Y.
Filed Nov. 3, 1950, Serial No. 605,867. Published July 7, 1953. Class 23.

583,272. Poultry Feeds. Doughboy Industries, Inc., New Richmond, Wis.
Filed Dec. 8, 1950, Serial No. 607,421. Published Sept. 8, 1953. Class 46.

583,273. Rice. Monroe D. Green, trading as M. D. Green Rice Milling Co., San Francisco, Calif.
Filed Dec. 11, 1950, Serial No. 607,547. Published Aug. 4, 1953. Class 46.

583,274. Centrifugal Compressors, Axial Flow Compressors, Gas Turbines, Etc. Clark Bros. Co., Inc., Olean, N. Y., assignor to Dresser Operations, Inc., Olean, N. Y., a corporation of California.
Filed Dec. 27, 1950, Serial No. 610,246. Published July 7, 1953. Class 23.

583,275. Machinery—Namely, Gyratory Crushers and Jaw Crushers, for Comminuting Solid Minerals. Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Filed Apr. 5, 1951, Serial No. 612,231. Published Aug. 25, 1953. Class 23.

583,276. Ozone Generators Generating Ozone by Electrical Ionization of Oxygen. Charles L. Herdegen, Fullerton, Calif.
Filed Apr. 17, 1951, Serial No. 612,739. Published May 20, 1952. Class 21.

583,277. Truck Trailers and Motor Trucks. Freightliner Corporation, Portland, Oreg.
Filed May 1, 1951, Serial No. 613,366. Published Sept. 8, 1953. Class 19.

583,278. Automotive Accessories—Namely, Automotive Rear View Mirrors, Gas Tank Caps, and Pedal Pads. American Automatic Devices Co., Chicago, Ill.
Filed June 2, 1951, Serial No. 614,644. Published Sept. 22, 1953. Class 19.

583,279. Domestic and Industrial Sewing Machines and Sewing Machine Attachments and Parts Thereof. Kochs Adlernaehmaschinen Werke, A. G., Bielefeld, Federal Republic of Western Germany.
Filed June 9, 1951, Serial No. 615,261. Published Aug. 18, 1953. Class 23.

583,280. Domestic and Industrial Sewing Machines and Sewing Machine Attachments and Parts Thereof. Kochs Adlernaehmaschinen Werke, A. G., Bielefeld, Federal Republic of Western Germany.
Filed June 9, 1951, Serial No. 615,262. Published Aug. 18, 1953. Class 23.

583,281. Heavy Duty Lathes. The Hydra-Feed Machine Tool Corporation, Norwalk, Conn., formerly The Sparks Machine Tool Corporation.
Filed June 21, 1951, Serial No. 615,503. Published Aug. 11, 1953. Class 23.

583,282. Panelboards Embodying Electric Circuit Breakers. Cutler-Hammer, Inc., Milwaukee, Wis.
Filed July 12, 1951, Serial No. 616,369. Published Sept. 1, 1953. Class 21.

583,283. Soft Hammers. Charles Budd Corporation, New Rochelle, N. Y., assignor, by mesne assignments, to The Custanite Corporation, Westchester County, N. Y.
Filed July 13, 1951, Serial No. 616,408. Published June 30, 1953. Class 23.

583,284. Portable Fire Extinguishers. Walter Kidde & Company, Inc., Belleville, N. J.
Filed Aug. 3, 1951, Serial No. 617,299. Published June 30, 1953. Class 23.

583,285. Glassware for Table, Culinary, and Household Purposes—Namely, Plates, Goblets, Bowls, Vegetable Dishes, Wine and Beer Glasses, Tumblers, Cups, and Strainers. Societe d'Exploitation Verriere Beauce Bourgogne, Paris, France.
Filed Aug. 10, 1951, Serial No. 617,558. Published July 28, 1953. Class 33.

583,286. Biological Specimen-Examination Kits, Biological Specimen Jars, Biological and Insect Compartmented Storing Boxes, Plant Presses for Laboratory Use, Microscopes, Microtomes, and Biological Specimens for Microscopic Study. Kent H. Wilson, doing business as Bio-Supply Co., Moscow, Idaho.
Filed Sept. 15, 1951, Serial No. 618,872. Published Sept. 15, 1953. Class 26.

583,287. Candy. Embassy Chocolate Products Company, Los Angeles, Calif.
Filed Oct. 3, 1951, Serial No. 619,538. Published Jan. 27, 1953. Class 46.

583,288. Motor Driven Tractor for Semi-Trailers and the Like. The Coleman Motors Corporation, Littleton, Colo.
Filed Oct. 25, 1951, Serial No. 620,461. Published Aug. 11, 1953. Class 23.

583,289. Antipicking Poultry Blinders Permitting Vision in All Directions Except Forward. Chiklip Company, New York, N. Y.
Filed Nov. 1, 1951, Serial No. 620,772. Published Aug. 25, 1953. Class 50.

583,290. Piece Goods Made of Acetate and Rayon Blended Together or Blended With Other Synthetic Fibers or Cotton Fibers. Verney Corporation, Manchester, N. H.
Filed Nov. 1, 1951, Serial No. 620,793. Published Oct. 14, 1952. Class 42.

583,291. Propellers—Namely, Airscrews, Marine Propellers, and Parts Thereof. Fairchild Engine and Airplane Corporation, Farmingdale, N. Y.
Filed Nov. 3, 1951, Serial No. 620,843. Published Sept. 22, 1953. Class 19.

583,292. Metal Casting Machines for Producing Type Bars, and Parts Thereof. Mergenthaler Linotype Company, Brooklyn, N. Y.
Filed Nov. 14, 1951, Serial No. 621,218. Published July 14, 1953. Class 23.

583,293. Gray Hair Preparations. Henry H. Faulkner, doing business as Cosmotone Laboratories, Los Angeles, Calif.
Filed Nov. 19, 1951, Serial No. 621,396. Published May 12, 1953. Class 51.

583,294. Piece Goods of Wool and Synthetic Fibers. Eagle Clothes, Inc., New York, N. Y.
Filed Nov. 20, 1951, Serial No. 621,456. Published Sept. 15, 1953. Class 42.

583,295. Tarpaulins, Burlap Covers, Canvas Covers, and Cotton Covers, Equipped With Tie-Down Rigging. Max Katz Bag Company Inc., Indianapolis, Ind.
Filed Nov. 30, 1951, Serial No. 621,886. Published Aug. 25, 1953. Class 50.

583,296. Printing Machines and Parts Thereof, Both Hand Operated and Driven by Electric Motor. Dapag (1943) Limited, London, England.
Filed Dec. 1, 1951, Serial No. 621,958. Published July 21, 1953. Class 23.

583,297. Mechanical Tennis-Simulating Table Game. Jet-Ball Game Company, St. Louis, Mo.
Filed Dec. 3, 1951, Serial No. 622,020. Published Sept. 15, 1953. Class 22.

583,298. Cologne, Shave Lotion, Talcum Powder, After Shave Stick, Lotion and Talcum Set, Lotion and Cologne Set, Cream Hair Dressing, Cream Hair Tonic, Brushless Shaving Cream, Lather Shaving Cream, Shaving Bowl (Shaving Soap), Shaving Lotion and Bowl Sets (Shaving Bowl With Soap and Lotion). Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 3, 1951, Serial No. 622,033. Published Sept. 8, 1953. Class 51.

583,299. Speedometers and Parts Thereof, and Instruments for Testing Speedometers and Tachometers. F. W. Stewart Manufacturing Corp., Chicago, Ill.
Original filed, act of 1946, Supplemental Register, Dec. 3, 1953; amended to application, Principal Register, Oct. 29, 1952, Serial No. 622,044. Published Sept. 1, 1953. Class 26.

583,300. Portable Sprayers and Power Operated Sprayers Adaptable for Use on Trucks, Tractors, and Air Craft for Producing Aerosols, Sprays, Fogs, or Mists for Agricultural or Horticultural Purposes. Pest Control Limited, Bourn, Cambridge, England.
Filed Dec. 13, 1951, Serial No. 622,455. Published Aug. 11, 1953. Class 23.

583,301. Cemetery Monuments Made of Marble, Granite, or the Like. John K. Shawvan, Washington, D. C.
Filed Dec. 28, 1951, Serial No. 622,962. Published Sept. 1, 1953. Class 50.

583,302. Preparation for the Treatment and Control of the Tobacco Habit. Samuel S. Loseff, doing business as Loseff Laboratory, Chicago, Ill.
Filed Jan. 11, 1952, Serial No. 623,471. Published May 19, 1953. Class 18.

583,303. Household Butcher Block. Robert Morton Meltzer, doing business under the name and style of Ibroc Wood Products Co., Auburn, Maine.
Filed Jan. 14, 1952, Serial No. 623,553. Published Aug. 4, 1953. Class 23.

583,304. Finished Metal Bearing Balls. Pioneer Steel Ball, Incorporated, Unionville, Conn.
Filed Jan. 23, 1952, Serial No. 623,984. Published Aug. 18, 1953. Class 23.

583,305. Fudge Candy, Orange Date Pudding, Plum Pudding, Brandy Pudding, and Miniature Pizza. Mary Clark's Happy Heart Kitchens, Los Angeles, Calif.
Filed Jan. 28, 1952, Serial No. 624,129. Published Aug. 25, 1953. Class 46.

583,306. Cranes and Portable Load-Lifting and Handling Equipment — Namely, Portable Hydraulic Truck-Mounted Cranes. Ruger Equipment, Inc., Uhrichsville, Ohio.
Filed Jan. 30, 1952, Serial No. 624,302. Published Aug. 11, 1953. Class 23.

583,307. Hair Pomade. Simon L. Caponette, doing business under the name House of Louis, Boston and North Andover, Mass.
Filed Feb. 9, 1952, Serial No. 624,730. Published Sept. 8, 1953. Class 51.

583,308. Bicycles. Supplee-Biddle-Steltz Company, Philadelphia, Pa.
Filed Feb. 26, 1952, Serial No. 625,549. Published Sept. 22, 1953. Class 19.

583,309. Loose-Leaf Binders and Book Covers Having a Curved Backbone Consisting of Adhesively-Joined Layers of Paper or Fibre Board. Brock & Rankin, Inc., Chicago, Ill.
Filed Mar. 3, 1952, Serial No. 625,845. Published Sept. 1, 1953. Class 37.

583,310. Decorative Artificial Fruits. Binita Gift Wares, Chicago, Ill.
Filed Mar. 5, 1952, Serial No. 625,956. Published Aug. 25, 1953. Class 50.

583,311. Women's Hosiery. The Nobil Shoe Company, Akron, Ohio.
Filed Mar. 15, 1952, Serial No. 626,527. Published Sept. 1, 1953. Class 39.

583,312. Fountain, Stylographic, Ball Point, and Other Mechanical Pens; Mechanical Pencils; Nibs, Clips, and Ball Point Cartridges. Edward Hugetz, New York, N. Y.
Filed Mar. 17, 1952, Serial No. 626,569. Published Sept. 15, 1953. Class 37.

583,313. Corrugated Paper Board. Packaging Materials Corp., Providence, R. I.
Filed Mar. 21, 1952, Serial No. 626,819. Published Sept. 15, 1953. Class 37.

583,314. Glues. Nu-Seal Mfg., Co., Oakland, Calif.
Filed Mar. 25, 1952, Serial No. 626,996. Published Sept. 15, 1953. Class 5.

583,315. Sports and Play Garments — Namely, Jeans, Slacks, Skirts, Shorts, Pedal Pushers, and Jackets. Sharpe Manufacturing Company, Inc., Minneapolis, Minn.
Filed Mar. 26, 1952, Serial No. 627,096. Published Sept. 8, 1953. Class 39.

583,316. Sheet Metal Punching, Notching, and Nibbling Machinery, and for Drive Clutches, Particularly Drive Clutches for Sheet Metal Punching, Notching, and Nibbling Machines. Wales-Strippit Corporation, North Tonawanda, N. Y.
Filed Mar. 27, 1952, Serial No. 627,154. Published Aug. 4, 1953. Class 23.

583,317. Pliers, Knives, Nippers, and Shears. Eric Katz, Los Angeles, Calif.
Filed Feb. 18, 1952, Serial No. 627,301. Published July 21, 1953. Class 23.

583,318. Aluminum Foil Sold in Sheets and Rolls. Reish Products, Inc., South Bend, Ind.
Filed Apr. 5, 1952, Serial No. 627,644. Published Sept. 15, 1953. Class 14.

583,319. Washing Machines. Anthony J. Perez, New Orleans, La.
Filed Apr. 8, 1952, Serial No. 627,771. Published Sept. 22, 1953. Class 24.

583,320. Stripping Units for Stripping Metal From Dies, Etc. Wales-Strippit Corporation, North Tonawanda, N. Y.
Filed Apr. 12, 1952, Serial No. 628,019. Published Aug. 11, 1953. Class 23.

583,321. Photo-Composing Apparatus Sold as a Unit, Comprised of a Precision Line Up and Register Table, Etc. Harry Olsen, Seattle, Wash.
Filed Apr. 21, 1952, Serial No. 628,424. Published Sept. 15, 1953. Class 26.

583,322. Golf Balls. Burke Golf Equipment Corporation, Newark, Ohio.
Filed Apr. 22, 1952, Serial No. 628,466. Published Sept. 15, 1953. Class 22.

583,323. Light Weight Open Weave Cloth Made From a Combination of Asbestos and Glass Yarns. Raybestos-Manhattan, Inc., Passaic, N. J.
Filed Apr. 23, 1952, Serial No. 628,714. Published Sept. 15, 1953. Class 42.

583,324. Electric Lamps and Switches. General Motors Corporation, Detroit, Mich.
Filed Apr. 30, 1952, Serial No. 628,937. Published Sept. 8, 1953. Class 21.

583,325. Radio and Television Transmitting and Receiving Apparatus and Parts Thereof. Zenith Radio Corporation, Chicago, Ill.
Filed May 2, 1952, Serial No. 629,135. Published Sept. 8, 1953. Class 21.

583,326. Cutlery — Namely, Kitchen Knives, Utility Knives, Steak Knives, Slicers, and Pot Forks. Imperial Knife Company, Inc., Providence, R. I.
Filed May 3, 1952, Serial No. 629,165. Published Aug. 11, 1953. Class 23.

583,327. Fluorescent Lighting Units. Electro Manufacturing Corporation, Chicago, Ill.
Filed May 15, 1952, Serial No. 629,727. Published Sept. 8, 1953. Class 21.

583,328. Pretzels and Pretzel Sticks. Halter's Pretzels, Inc., Canton, Ohio.
Filed May 20, 1952, Serial No. 629,944. Published Sept. 28, 1953. Class 46.

583,329. Sugar Cane Wax for Industrial Purposes. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis.
Filed May 22, 1952, Serial No. 630,076. Published Sept. 22, 1953. Class 6.

583,330. Sugar Cane Wax for Industrial Purposes. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis.
Filed May 22, 1952, Serial No. 630,077. Published Sept. 22, 1953. Class 6.

583,331. Sugar Cane Wax for Industrial Purposes. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis.
Filed May 22, 1952, Serial No. 630,078. Published Sept. 22, 1953. Class 6.

583,332. Sugar Cane Wax for Industrial Purposes. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis.
Filed May 22, 1952, Serial No. 630,079. Published Sept. 22, 1953. Class 6.

583,333. Sugar Cane Wax for Industrial Purposes. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis.
Filed May 22, 1952, Serial No. 630,080. Published Sept. 22, 1953. Class 6.

583,334. Sugar Cane Wax for Industrial Purposes. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis.
Filed May 22, 1952, Serial No. 630,081. Published Sept. 22, 1953. Class 6.

583,335. Sugar Cane Wax for Industrial Purposes. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis.
Filed May 22, 1952, Serial No. 630,082. Published Sept. 22, 1953. Class 6.

583,336. Sugar Cane Wax for Industrial Purposes. S. C. Johnson & Son, Inc., doing business as Gramercy Cane Wax Plant, Racine, Wis.
Filed May 22, 1952, Serial No. 630,083. Published Sept. 22, 1953. Class 6.

583,337. CONSOLIDATED CERTIFICATE. The Singer Manufacturing Company, Elizabeth, N. J.
Thermoplastic Material in the Form of Sheets and Strips. Filed Dec. 24, 1952, Serial No. 640,015. Published June 23, 1953. Class 1.
Dust Bags for Vacuum Cleaners, and Receptacles for Lubricants—Namely, Oil-Dispensing Cans, Collapsible Tubes, Barrels, Cans, and Cardboard Cartons and Boxes or Cases. Filed May 23, 1952, Serial No. 630,156. Published May 12, 1953. Class 2.
Traveling Cases. Filed May 23, 1952, Serial No. 630,157. Published Mar. 3, 1953. Class 3.
Emery Cord. Filed May 23, 1952, Serial No. 630,158. Published Oct. 14, 1952. Class 4.
Belt Hooks and Cabinet and Furniture Hardware—Namely, Hinges, Brackets, Braces, and Handles; and General Hardware — Namely, Studs, Bolts, Pins, Screws, and Nuts. Filed May 24, 1952, Serial No. 630,219. Published Mar. 3, 1953. Class 13.
Lubricating Oil and Greases. Filed May 24, 1952, Serial No. 630,220. Published Feb. 24, 1953. Class 15.
Electric Motors, Electro-Mechanical Drives, Etc. Filed May 24, 1952, Serial No. 630,221. Published Mar. 31, 1953. Class 21.
Toy Sewing Machines, Dolls, Dolls' Clothes, and Toy Traveling Cases. Filed May 24, 1952, Serial No. 630,222. Published Mar. 10, 1953. Class 22.
Family and Commercial Sewing Machines; Darning, Embroidery, Article Fastening, Etc. Filed May 24, 1952, Serial No. 630,223. Published May 5, 1953. Class 23.
Pressing Machines for Pressing, Pleating, and Kilting Cloth; Ironing Boards, Sleeve Boards, Sleeve Board Pads, Sleeve Board Covers, and Ironing Board Covers; and Pressing Mitts. Filed May 24, 1952, Serial No. 630,224. Published Mar. 31, 1953. Class 24.
Locks and Keys. Filed May 24, 1952, Serial No. 630,225. Published Mar. 31, 1953. Class 25.
Thermoelectric Testing Devices for Providing a Temperature Indication of Needles and the Like Tools During the Operation Thereof and Measuring Devices—Namely, Yardsticks. Filed May 23, 1952, Serial No. 630,160. Published June 23, 1953. Class 26.
Cabinets, Stools, Chairs, Tables, Card Tables, and Mobile Work Racks. Filed May 23, 1952, Serial No. 630,161. Published Mar. 3, 1953. Class 32.
Room Heaters and Fans for Room Heaters. Filed May 23, 1952, Serial No. 630,162. Published July 28, 1953. Class 34.
V-Belts, Cord Belts, Composition Belts, Round Leather Belts, and Power Transmission Belting. Filed May 23, 1952, Serial No. 630,163. Published Mar. 17, 1953. Class 35.
Marking Chalk. Filed June 28, 1952, Serial No. 631,951. Published Mar. 24, 1953. Class 37.
Books, Pamphlets, Educational Leaflets, Catalogs, Circulars, and Decalcomania Transfers. Filed May 23, 1952, Serial No. 630,164. Published Apr. 7, 1953. Class 38.
Hand Sewing Needles; Needle Cases; Needle Threaders; Skirtmarkers; Buttons, Buckles, and Clasps; and Stocking, Darning, and Embroidery Hoops. Filed May 23, 1952, Serial No. 630,165. Published June 9, 1953. Class 40.
Piece Goods of Wool, Cotton, Silk, and Synthetic Fibers. Filed Oct. 21, 1952, Serial No. 636,946. Published May 12, 1953. Class 42.
Sewing Thread. Filed June 28, 1952, Serial No. 631,952. Published Mar. 31, 1953. Class 43.
Surgical Stitching Instruments, Their Parts and Attachments—Namely, Needles, Bobbins, and Bobbin Winders; and Manicuring Scissors. Filed May 23, 1952, Serial No. 630,166. Published Mar. 3, 1953. Class 44.
Dress Forms and Dress Form Stands. Filed May 23, 1952, Serial No. 630,167. Published Feb. 24, 1953. Class 50.
Petroleum Derivatives for Use in Cleaning Metallic Machine Elements. Filed May 23, 1952, Serial No. 630,159. Published Feb. 24, 1953. Class 52.

583,338. Metal Sheets and Particularly Foils of Aluminum and Aluminum Alloys. Aluminum Foils, Inc., New York, N. Y.
Filed May 28, 1952, Serial No. 630,371. Published Sept. 15, 1953. Class 14.

583,339. Plastic Bags, Waxed Paper Cartons, and Heat Sealing Paper Bags for Frozen Food Packaging. Motor Products Corporation, Detroit, Mich., and North Chicago, Ill.
Filed June 9, 1952, Serial No. 630,946. Published Sept. 15, 1953. Class 2.

583,340. Ignition Circuit Breakers. Howard L. Fuston, Oak Park, Ill.
Filed June 16, 1952, Serial No. 631,238. Published Sept. 1, 1953. Class 21.

583,341. Powder Puffs. Weco Products Company, Chicago, Ill.
Filed June 17, 1952, Serial No. 631,332. Published Sept. 8, 1953. Class 29.

583,342. Molleton Fabrics of Cotton and Synthetic Fibres, Sold in Bolts, Rolls, and by the Yard, Made Especially for Use With Lithographic Rolls. Roll-O-Graphic Corporation, New York, N. Y.
Filed June 20, 1952, Serial No. 631,495. Published Sept. 15, 1953. Class 42.

583,343. Waiters, Entree Dishes, Teasets, Trays, Hot Water Jugs, Etc. William Adams Limited, Birmingham, England.
Filed June 25, 1952, Serial No. 631,709. Published Aug. 4, 1953. Class 28.

583,344. Photographic Apparatus — Namely, Photographic Lenses, Shutters, Light Filters, View Finders, Etc. Zeiss Ikon, A. G., Stuttgart, Germany.
Filed Mar. 5, 1952, Serial No. 631,957. Published Sept. 15, 1953. Class 26.

583,345. Golf Clubs and Golf Balls. Burke Golf Equipment Corporation, Newark, Ohio.
Filed July 2, 1952, Serial No. 632,072. Published Sept. 15, 1953. Class 22.

583,346. Golf Clubs. Burke Golf Equipment Corporation, Newark, Ohio.
Filed July 2, 1952, Serial No. 632,073. Published Sept. 15, 1953. Class 22.

583,347. Sewing Machine Needles, Hand Operated Meat Grinders, Fruit Juice Mixers, and Can Openers; Sewing Scissors and Shears; Razors and Razor Blades for Shaving Hair From Legs, Arms, and Under Arms. Arkwright, Incorporated, New York, N. Y.
Filed July 3, 1952, Serial No. 632,109. Published Aug. 18, 1953. Class 23.

583,348. Sprocket Wheels for All Types of Chain-Driven Machinery. Cullman Wheel Company, Chicago, Ill.
Filed July 5, 1952, Serial No. 632,156. Published July 14, 1953. Class 23.

583,349. Sedative and Hypnotic Preparation. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed July 5, 1952, Serial No. 632,181. Published Aug. 4, 1953. Class 18.

583,350. Bracelets, Necklaces, Chokers, Brooches, Bar Pins, Earrings, Etc. Belenky Bros., Inc., New York, N. Y.
Filed July 7, 1952, Serial No. 632,197. Published Aug. 4, 1953. Class 28.

583,351. Pre-Cast Bricks and Blocks for Use in the Building of Sewers, Foundations, Walls, and Partitions. Jackson and Church Company, Saginaw, Mich.
Filed July 8, 1952, Serial No. 632,250. Published Sept. 8, 1953. Class 12.

583,352. Rubber-Fibre Tie Pads Designed To Be Used in Conjunction With Railroad Tie Plates. American Brake Shoe Company, New York, N. Y.
Filed July 9, 1952, Serial No. 632,281. Published Sept. 1, 1953. Class 50.

583,353. Game Consisting of a Plurality of Cards Depicting Words and Objects To Be Identified While Traveling. Arthur F. Marquette, doing business under the trade-name of Auto-Bet Co., Chicago, Ill.
Filed July 15, 1952, Serial No. 632,567. Published Sept. 15, 1953. Class 22.

583,354. Liquid Synthetic Resins. Marco Chemicals, Inc., Linden, N. J., assignor to Celanese Corporation of America, a corporation of Delaware.
Filed July 16, 1952, Serial No. 632,624. Published Sept. 15, 1953. Class 6.

583,355. Liquid Synthetic Resins. Marco Chemicals, Inc., Linden, N. J., assignor to Celanese Corporation of America, a corporation of Delaware.
Filed July 16, 1952, Serial No. 632,625. Published Sept. 15, 1953. Class 6.

583,356. Spark Plugs for Internal Combustion Engines. F. A. Luthy Co., Jackson, Mich.
Filed July 21, 1952, Serial No. 632,844. Published Sept. 8, 1953. Class 21.

583,357. Pressure Gauges or Pressure Sensing Devices Operated by Gas Pressures, Etc. Trans-Sonics, Inc., Bedford, Mass.
Filed July 25, 1952, Serial No. 633,092. Published Sept. 15, 1953. Class 26.

583,358. Electric Cycle Lighting Sets, Including Dynamos, Head Light Lamps, Reflectors, and Rearlights. N. V. Electroproducten, The Hague, Netherlands.
Filed July 29, 1952, Serial No. 633,208. Published Sept. 1, 1953. Class 21.

583,359. Paper Bags, Paper Cardboard Boxes, Paper Trays, Paperboard Shipping Cases, and Paperboard Shipping Cartons and Waxed Paper Cups. Newark Paraffine & Parchment Paper Co., Newark, N. J.
Filed May 23, 1952, Serial No. 633,243. Published Sept. 15, 1953. Class 2.

583,360. Canned Sardines. Aktieselskab Quality Canning Co. Limited, Stavanger, Norway, assignor to Trygve Olsen & Co. Aktieselskab, Stavanger, Norway, a joint stock company of Norway.
Filed July 31, 1952, Serial No. 633,289. Published Aug. 4, 1953. Class 46.

583,361. Fluorescent Lighting Fixtures and Parts Thereof. Day-Brite Lighting, Inc., St. Louis, Mo.
Filed July 31, 1952, Serial No. 633,302. Published Sept. 8, 1953. Class 21.

583,362. Harvesters, and Parts Thereof. Wellington W. Porter, Waterloo, N. Y.
Filed Aug. 8, 1952, Serial No. 633,630. Published July 21, 1953. Class 23.

583,363. Power-Agitated Machines for Cleaning Small Parts in a Cleaning Solution, Accessory Tools for Attachment to and Operation by Electrically-Operated Hand Tools, and Combination Shearing, Trimming, and Edging Tools for Lawn and Garden Use. Earl L. Chadwick, doing business as Earl L. Chadwick Company, Portland, Oreg.
Filed Aug. 11, 1952, Serial No. 633,712. Published Aug. 11, 1953. Class 23.

583,364. Medicine for Treating the Genitals of Animals. Dickman & Wyrsch, Cupertino, Calif.
Filed Aug. 11, 1952, Serial No. 633,719. Published Aug. 4, 1953. Class 18.

583,365. Candy. Federal Sweets & Biscuit Co., Inc., Clifton, N. J.
Filed Aug. 12, 1952, Serial No. 633,760. Published Jan. 27, 1953. Class 46.

583,366. Blotters, Mechanical Pencils, Fountain Pens, Note Books, Desk Pads, and Note Book Covers. The Osborne Company, Clifton, N. J.
Filed Aug. 13, 1952, Serial No. 633,865. Published Sept. 1, 1953. Class 37.

583,367. Canned Citrus Juices Both Frozen and Unfrozen. Winter Garden Citrus Products Cooperative, Winter Garden, Fla.
Filed Aug. 13, 1952, Serial No. 633,899. Published Sept. 8, 1953. Class 46.

583,368. Canned Citrus Juices Both Frozen and Unfrozen. Winter Garden Citrus Products Cooperative, Winter Garden, Fla.
Filed Aug. 13, 1952, Serial No. 633,900. Published Sept. 8, 1953. Class 46.

583,369. Dairy Products—Namely, Fluid Milk, Buttermilk, Butter, Cheese, Cottage Cheese, and Ice Cream. F. H. Soldwedel Company, Pekin, Ill.
Filed Aug. 21, 1952, Serial No. 634,278. Published Aug. 11, 1953. Class 46.

583,370. Women's Hosiery and Undergarments—Namely, Panties and Slips. Barbara Jean's Beauty Sheer Hosiery, Inc., Penndel, Pa.
Filed Aug. 22, 1952, Serial No. 634,289. Published Sept. 8, 1953. Class 39.

583,371. Liquid Chemical Compound for Addition to Concrete Mixes and the Like for Making Lightweight Concrete Products. Foam-Crete, Incorporated, Scranton, Pa.
Filed Aug. 28, 1952, Serial No. 634,584. Published Sept. 15, 1953. Class 6.

583,372. Outboard Motor Boats. McDerby-Conatser Boat Manufacturers, Denison, Tex.
Filed Sept. 2, 1952, Serial No. 634,748. Published Sept. 22, 1953. Class 19.

583,373. Stapling Machines and Mattress Making Machines and Parts Thereof, and Accessories Therefor—Namely, Felt Turning Attachment and Anvil, Winders, Feed Racks and Hemmers, and Plungers for Use in Closing and Filling Cushions. Meridan Corporation, Chicago, Ill.
Filed Sept. 5, 1952, Serial No. 634,908. Published Aug. 25, 1953. Class 23.

583,374. Fresh Lettuce. Lettuce, Incorporated, Salinas, Calif.
Filed Sept. 8, 1952, Serial No. 634,984. COLLECTIVE MARK. Published Sept. 8, 1953. Class 46.

583,375. Electrically-Operated Microphones and Loudspeakers for Use With Sound Recording and Reproducing Machines—Namely, Dictating Machines and Transcribing Machines. Dictaphone Corporation, Bridgeport, Conn.
Filed Sept. 11, 1952, Serial No. 635,124. Published Sept. 8, 1953. Class 21.

583,376. Fabric Work Gloves. Good Luck Glove Company, Carbondale, Ill.
Filed Sept. 11, 1952, Serial No. 635,132. Published Sept. 8, 1953. Class 39.

583,377. Sheet Metal Basement Entrance Units, Comprising a Frame and a Door Sold as a Complete Assembly. Heatilator, Inc., Syracuse, N. Y.
Filed Sept. 23, 1952, Serial No. 635,650. Published Sept. 8, 1953. Class 12.

583,378. Leather and Fabric Gloves. Louis Fischl Glove Co. Ltd., Prescott, Ontario, Canada.
Filed Sept. 26, 1952, Serial No. 635,826. Published Sept. 8, 1953. Class 39.

583,379. Cabinet Work Benches, Shaft Couplings, Shaft Bearings (Clamp Box), Etc. Standard Pressed Steel Co., Jenkintown, Pa.
Filed Sept. 29, 1952, Serial No. 635,938. Published Aug. 18, 1953. Class 23.

583,380. Water Pumps and Water Pumping Units Which Include a Pump Support, Pump, Motor, Storage Tank, Control Switch, Strainer, and Parts Thereof. Decatur Pump Company, Decatur, Ill.
Filed Oct. 2, 1952, Serial No. 636,063. Published Aug. 4, 1953. Class 23.

583,381. Magnesium Trisilicate for Use as an Antacid. Wernet Dental Mfg. Co., Inc., doing business as Hudson Products, Jersey City, N. J.
Filed Oct. 7, 1952, Serial No. 636,320. Published Aug. 4, 1953. Class 18.

583,382. Multiple Glass Jar. Pitman-Dreitzer & Co. Inc., New York, N. Y.
Filed Oct. 11, 1952, Serial No. 636,536. Published Aug. 4, 1953. Class 33.

583,383. Fancy Shred Coconut. Sembodja Corporation of New York, also doing business under the name and style of Sembodja Corp., New York, N. Y.
Filed Oct. 16, 1952, Serial No. 636,742. Published Aug. 4, 1953. Class 46.

583,384. Rice for Food for Human Consumption. Converted Rice, Inc., Houston, Tex.
Filed Oct. 17, 1952, Serial No. 636,773. Published Sept. 8, 1953. Class 46.

583,385. Electric Connector Plugs; Electric Receptacles; Electric Cutouts; Electric Sockets; Electric Switches; Etc. Meteor Electric Corporation, Brooklyn, N. Y.
Filed Oct. 17, 1952, Serial No. 636,793. Published Sept. 1, 1953. Class 21.

583,386. Adherent Coating Compound Useful for Application to Electrical Wires, Cable Splices, Etc., To Provide a Protective Skin Thereon. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Oct. 18, 1952, Serial No. 636,857. Published Sept. 8, 1953. Class 21.

583,387. Electrically Heated Irons for Massage and Heat Treatment. Allied Commercial Corp., New York, N. Y.
Filed Oct. 22, 1952, Serial No. 636,957. Published Sept. 22, 1953. Class 44.

583,388. Synthetic Plastic Materials in the Form of Liquid Compositions, Powders, and Granules Having Various Uses in the Industrial Arts. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Oct. 22, 1952, Serial No. 636,972. Published Sept. 15, 1953. Class 6.

583,389. Sheet Metal Strips To Prevent the Entry of Termites in Building Constructions. Tennison Brothers, Incorporated, Memphis, Tenn., and Texarkana, Ark.
Filed Oct. 23, 1952, Serial No. 637,092. Published Sept. 8, 1953. Class 12.

583,390. Lubricating Oils. Renuzit Home Products Co., doing business as Royal Windsor Petroleum Company, Philadelphia, Pa.
Filed Oct. 29, 1952, Serial No. 637,331. Published Aug. 4, 1953. Class 15.

583,391. Loud Speakers. Duode Limited, London, England.
Filed Oct. 30, 1952, Serial No. 637,365. Published Sept. 1, 1953. Class 21.

583,392. Precision Machined Balls for Use as Bearings and Other Machine Purposes. Industrial Tectonics, Inc., Ann Arbor, Mich.
Filed Oct. 30, 1952, Serial No. 637,378. Published July 21, 1953. Class 23.

583,393. Toiletries—Namely, Cologne and After-Shave Lotion. Wallach's, Inc., New York, N. Y., and elsewhere.
Filed Oct. 31, 1952, Serial No. 637,469. Published Sept. 8, 1953. Class 51.

583,394. Woollen Blankets, Including Plaids and Travelling Rugs. AaBe Wollenstoffen- en Wollendekenfabrieken N. V., Tilburg, Netherlands.
Filed Nov. 4, 1952, Serial No. 637,561. Published Sept. 15, 1953. Class 42.

583,395. Woollen Blankets, Including Plaids and Travelling Rugs. AaBe Wollenstoffen- en Wollendekenfabrieken N. V., Tilburg, Netherlands.
Filed Nov. 4, 1952, Serial No. 637,562. Published Sept. 15, 1953. Class 42.

583,396. Container Closures. Armstrong Cork Company, Lancaster, Pa.
Filed Nov. 5, 1952, Serial No. 637,637. Published Sept. 1, 1953. Class 50.

583,397. Road Plow and Scraper Metal Blades; Metal Bars and Metal Plates for Use on Tractor Wheels. American Suralloy Steel Corporation, Cleveland, Ohio.
Filed Nov. 12, 1952, Serial No. 637,900. Published July 21, 1953. Class 23.

583,398. Electric Arc-Welding Apparatus. The Lincoln Electric Company, Cleveland, Ohio.
Filed Nov. 12, 1952, Serial No. 637,930. Published Sept. 1, 1953. Class 21.

583,399. Bond Papers. Kaeser & Blair, Incorporated, Cincinnati, Ohio.
Filed Nov. 13, 1952, Serial No. 637,995. Published Sept. 15, 1953. Class 37.

583,400. Threading Equipment for Rock Drill Steel Rods—Namely, Die Heads for Use With a Lathe. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y.
Filed Nov. 21, 1952, Serial No. 638,420. Published July 21, 1953. Class 23.

583,401. Industrial Sewing Machine Needles, Home Sewing Machine Needles, and Hand Sewing Needles. Royal Hair Pin Corporation, New York, N. Y.
Filed Nov. 21, 1952, Serial No. 638,438. Published July 7, 1953. Class 23.

583,402. Boiler Water Treatment Compound for Preventing Scale, Rust, Pitting and Foaming. National Chemical Sales Co., Inc., Atlanta, Ga.
Filed Nov. 22, 1952, Serial No. 638,493. Published Sept. 22, 1953. Class 6.

583,403. Electron Tubes. Societe Francaise Radio-Electrique, Paris, France.
Filed Nov. 25, 1952, Serial No. 638,613. Published Sept. 1, 1953. Class 21.

583,404. Light Projection Picture Screen Locking Mechanism for Tensioning Screen Fabric. Radiant Manufacturing Corporation, Chicago, Ill.
Filed Nov. 26, 1952, Serial No. 638,662. Published Sept. 8, 1953. Class 26.

583,405. Adding and Calculating Machines and Cash Control and Book Keeping Machines and Parts. Aktiebolaget Addo, Malmo, Sweden.
Filed Dec. 3, 1952, Serial No. 638,887. Published Sept. 1, 1953. Class 26.

583,406. Quaternary Ammonium Compositions Used for the Treatment of Stainless Steel Needles To Inhibit the Clotting of Blood During Blood Collections and Transfusions. Armour and Company, Chicago, Ill.
Filed Dec. 5, 1952, Serial No. 639,006. Published Aug. 4, 1953. Class 18.

583,407. Quebracho Extract. The River Plate Corporation, New York, N. Y.
Filed Dec. 5, 1952, Serial No. 639,078. Published Sept. 15, 1953. Class 6.

583,408. Mechanically Operable Attachment for Internal Combustion Engine Carburetors, Etc. Malcolm Bailey, Sr., Tampa, Fla.
Filed Dec. 11, 1952, Serial No. 639,309. Published Sept. 8, 1953. Class 26.

583,409. Composition To Be Used as an Ingredient for Cement Mixes and Masonry Mortar Mixes To Increase Resistance to Weathering and Penetration by Water. The Master Builders Company, Cleveland, Ohio.
Filed Dec. 12, 1952, Serial No. 639,381. Published July 28, 1953. Class 12.

583,410. Rice. Rice Growers Association of California, also trading as Rice Growers Assn., Sacramento, Calif.
Filed Dec. 12, 1952, Serial No. 639,393. Published Aug. 4, 1953. Class 46.

583,411. Road Maintenance Equipment—Namely, a Mobile Asphalt Road Conditioning Unit With Heater and Hydraulically Operated Planer for Repairing Bituminous Road Surfaces. Clark Moore, doing business as Asphalt Maintenance Company, New York, N. Y.
Filed Dec. 19, 1952, Serial No. 639,766. Published Aug. 18, 1953. Class 23.

583,412. Mixing Machinery for Feed, Grains and the Like, Hammermills, Etc. The Fairfield Engineering Company, Marion, Ohio.
Filed Dec. 20, 1952, Serial No. 639,816. Published Aug. 18, 1953. Class 23.

583,413. Incense. Jamil Akhtar, doing business as India Cosmetic Co., Detroit, Mich.
Filed Dec. 24, 1952, Serial No. 639,975. Published Sept. 15, 1953. Class 6.

583,414. Women's and Misses' Dresses. Albert Rosenblatt & Sons, Inc., New York, N. Y.
Filed Dec. 31, 1952, Serial No. 640,228. Published Sept. 8, 1953. Class 39.

583,415. Automatic Electric Water Heaters, and Electric Fired Heating Boilers. Karl J. Kawalle, doing business under the name of Copper Boiler and Heater Wks., Manitowoc, Wis.
Filed Jan. 2, 1953, Serial No. 640,285. Published Sept. 1, 1953. Class 21.

583,416. Asphalt Composition for Resurfacing and Patching Masonry and Concrete Floors. The Master Builders Company, Cleveland, Ohio.
Filed Jan. 7, 1953, Serial No. 640,465. Published July 28, 1953. Class 12.

583,417. Vacuum Operated Machine for Applying Flexible Sheet Material to a Rigid Surface. Minnesota Mining & Manufacturing Company, St. Paul, Minn.
Filed Jan. 7, 1953, Serial No. 640,469. Published July 21, 1953. Class 23.

583,418. Electrical Fuses. Economy Fuse and Manufacturing Co., Chicago, Ill.
Filed Jan. 8, 1953, Serial No. 640,503. Published Sept. 8, 1953. Class 21.

583,419. Garden and Lawn Cultivators. John H. Graham & Co., Inc., New York, N. Y.
Filed Jan. 8, 1953, Serial No. 640,511. Published July 21, 1953. Class 23.

583,420. Reconditioned Internal Combustion Engines for Vehicles and the Like. Rebuilt Engine Products Company, Detroit, Mich.
Filed Jan. 8, 1953, Serial No. 640,529. Published July 21, 1953. Class 23.

583,421. Fabrics in the Piece Made of Cotton, Silk, Wool, and Synthetic Fibres and Mixtures Thereof. Charles Bloom Inc., New York, N. Y.
Filed Jan. 13, 1953, Serial No. 640,667. Published Sept. 15, 1953. Class 42.

583,422. Combination Thread Counting and Cloth Examining Machines. Robert L. Sjostrom, doing business as Sjostrom Machine Company, Lawrence, Mass.
Filed Dec. 17, 1952, Serial No. 640,706. Published Sept. 15, 1953. Class 26.

583,423. Double Glazed Windows. Pittsburgh Plate Glass Company, Pittsburgh, Pa.
Filed Jan. 14, 1953, Serial No. 640,754. Published Aug. 11, 1953. Class 12.

583,424. Porcelain and Earthenware for Domestic and Household Purposes—Namely, Dinner and Other Tableware. Geo. Borgfeldt Corporation, New York, N. Y.
Filed Jan. 19, 1953, Serial No. 640,906. Published July 28, 1953. Class 30.

583,425. Combination Hand Tool Consisting of Knife Blade, Fish Descaler, Corkscrew, Plier, Etc., for Use on Camping and Fishing Trips. Fred Mac Overland, doing business as Overland Import Company, Los Angeles, Calif.
Filed Jan. 19, 1953, Serial No. 640,946. Published Sept. 8, 1953. Class 23.

583,426. Automotive Equipment—Namely, Reconditioned Fuel Pumps, Carburetors, Crank Shafts, Cylinder Heads, and Combustion Engines. Car Parts Depot, Inc., El Paso, Tex.
Filed Jan. 21, 1953, Serial No. 641,013. Published Aug. 25, 1953. Class 23.

583,427. Handkerchiefs. The Herrmann Handkerchief Company, Inc., New York, N. Y.
Filed Jan. 22, 1953, Serial No. 641,138. Published Sept. 8, 1953. Class 39.

583,428. Printing Machines of the Surface, Intaglio Gravure, Flat Block, Aniline and Offset Type; Etc. John Waldron Corporation, Highland Park, N. J.
Filed Jan. 23, 1953, Serial No. 641,225. Published Aug. 4, 1953. Class 23.

583,429. Automatic Cleaners—Namely, Traveling Blowers That Are Particularly Adapted for Use in Directing a Stream of Air Downwardly Over Machines, Etc. Parks-Cramer Company, Fitchburg, Mass.
Filed Jan. 26, 1953, Serial No. 641,324. Published Aug. 25, 1953. Class 23.

583,430. Women's Hosiery Knit of Crinkled or Crimp Set Nylon. Phoenix Hosiery Company, Milwaukee, Wis.
Filed Jan. 26, 1953, Serial No. 641,325. Published Sept. 1, 1953. Class 39.

583,431. Coin Operated Vending Machine. Louis R. Inwood, Kansas City, Mo.
Filed Jan. 28, 1953, Serial No. 641,449. Published July 21, 1953. Class 23.

583,432. Wallets and Billfolds. Aristocrat Leather Products, Inc., New York, N. Y.
Filed Jan. 29, 1953, Serial No. 641,490. Published Sept. 1, 1953. Class 3.

583,433. Paper Backed Aluminum Foil for Household Uses Such as Covers for Shelves and Cabinet Drawers, Vermin-Protective Covers for Woolen Material and Furs, Wrappers for Wet Bundles and Gift Packages, and Decorative Material for Lamp Shades and Table Runners. Cochran Foil Company, doing business as Cochran Foil Products Co., Louisville, Ky.
Filed Jan. 29, 1953, Serial No. 641,501. Published Sept. 1, 1953. Class 37.

583,434. Portable Electric Ranges, Electric Range Units and Parts Thereof, and Portable Ranges for Both Cooking and Heating Purposes and Heated by Electricity. The Quincy Stove Manufacturing Company, Quincy, Ill.
Filed Jan. 30, 1953, Serial No. 641,572. Published Sept. 8, 1953. Class 21.

583,435. Pink Wine. Julius Wile Sons and Co., Inc., New York, N. Y.
Filed Feb. 3, 1953, Serial No. 641,702. Published Sept. 8, 1953. Class 47.

583,436. Electrical Welders, Spot Welders, and Welding Equipment, Including Combination Welders and Generators. Miller Electric Manufacturing Co., Appleton, Wis.
Filed Feb. 6, 1953, Serial No. 641,853. Published Sept. 15, 1953. Class 21.

583,437. Stationary Centerfeed Crusher Having Swing Hammers Rotatable in Both Directions for Comminuting Coal, Stone, and the Like. Pennsylvania Crusher Company, Philadelphia, Pa.
Filed Feb. 6, 1953, Serial No. 641,859. Published Aug. 4, 1953. Class 23.

583,438. Magnifying Lens Attachments for Incandescent Electric Bulbs. Fairbridge Co. Incorporated, Bridgeport, Conn.
Filed Feb. 10, 1953, Serial No. 642,027. Published Sept. 15, 1953. Class 26.

583,439. Medicinal Preparation Containing Lipotropic Factors for Use in the Prevention and Treatment of Disturbances in Fat Metabolism. Charles C. Haskell & Co., Inc., Richmond, Va.
Filed Feb. 10, 1953, Serial No. 642,032. Published Aug. 18, 1953. Class 18.

583,440. Corrosion Inhibitor of the Vapor Pressure or Cationic Types for Protecting Ferrous Metal Surfaces. Poor & Company, Chicago, Ill.
Filed Feb. 10, 1953, Serial No. 642,046. Published Sept. 22, 1953. Class 6.

583,441. Polarizing Lenses and Eyeglasses. Arch Oboler, Hollywood, Calif.
Filed Feb. 11, 1953, Serial No. 642,084. Published Sept. 15, 1953. Class 26.

583,442. Check Printing Machines. The Todd Company, Inc., Rochester, N. Y.
Filed Feb. 12, 1953, Serial No. 642,181. Published Aug. 4, 1953. Class 23.

583,443. Door Knob Covers Made of Soft Plastic Material Which Glows in the Dark. Art Anson, Inc., Allentown, Pa.
Filed Feb. 13, 1953, Serial No. 642,196. Published Sept. 1, 1953. Class 50.

583,444. Vacuum Operated Clippers for Use in Shearing Livestock. Babson Bros. Co., Chicago, Ill.
Filed Feb. 16, 1953, Serial No. 642,256. Published Aug. 25, 1953. Class 23.

583,445. Arc Welding Machines. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Feb. 18, 1953, Serial No. 642,394. Published Sept. 15, 1953. Class 21.

583,446. Wooden Boats and Unfinished Hulls of Boats Used as Motor Boats, Row Boats, Tenders, Dinghies, Sailing Dinghies, Life Boats, and Outboard Cruisers and Patrol Boats. Industrial Shipping Company Limited, Mahone Bay, Lunenburg, Nova Scotia, Canada.
Filed Feb. 20, 1953, Serial No. 642,553. Published Sept. 15, 1953. Class 19.

583,447. Composition for Treatment of Burns and Abraded Areas Packaged in Aerosol Bomb Type Dispensers. Lincoln Laboratories, Inc., Decatur, Ill.
Filed Feb. 24, 1953, Serial No. 642,668. Published Aug. 18, 1953. Class 18.

583,448. Lawnmowers. The Moto-Mower Company, Detroit, Mich.
Filed Feb. 25, 1953, Serial No. 642,761. Published Aug. 4, 1953. Class 23.

583,449. Laboratory and Scientific Glassware—Namely, Pipettes, Burrettes, Weighing Bottles, Graduated Cylinders, Centrifuge Tubes, Nessler Tubes, Folin Sugar Tubes, Folin Digestion Tubes, and Rothberg-Evans Blood Sugar Tubes. Bellco Glass, Inc., Vineland, N. J.
Filed Mar. 2, 1953, Serial No. 642,931. Published Sept. 15, 1953. Class 26.

583,450. Preparation To Be Administered Intravenously for the Relief of Eclampsia and Severe Pre-Eclampsia Conditions and Severe Hypertension Conditions. Irwin, Neisler & Company, Decatur, Ill.
Filed Mar. 3, 1953, Serial No. 643,038. Published Aug. 18, 1953. Class 18.

583,451. Rules for Alignment of Spectacles. Lugene, Inc., New York, N. Y.
Filed Mar. 3, 1953, Serial No. 643,040. Published Sept. 15, 1953. Class 26.

583,452. Liquid Preparation To Rinse Nylon Hose. Chester H. Roth Co., Inc., New York, N. Y.
Filed Mar. 5, 1953, Serial No. 643,187. Published Sept. 15, 1953. Class 6.

583,453. Cargo Trailers, Truck Bodies, and Structural Parts Thereof. Trailmobile Inc., Cincinnati, Ohio.
Filed Mar. 6, 1953, Serial No. 643,252. Published Sept. 15, 1953. Class 19.

583,454. Massaging and Manipulating Devices for Body Stimulation and Therapeutic Purposes and Accessories Therefor. Carl Brandenfels, St. Helens, Oreg.
Filed Mar. 9, 1953, Serial No. 643,278. Published Sept. 22, 1953. Class 44.

583,455. Handbags and Wallets; All Made of Materials Other Than the Material of the Pattern Shown in the Drawing. Peck & Peck, New York, N. Y.
Filed Mar. 9, 1953, Serial No. 643,362. Published Sept. 8, 1953. Class 3.

583,456. Canned Ham. Robt. R. and R. W. Smith Ltd., also doing business as Rowland Smith & Son, London, England.
Filed Mar. 9, 1953, Serial No. 643,379. Published Aug. 4, 1953. Class 46.

583,457. Onions in Their Natural State. Harry Feldman, doing business as Feldman Fruit Company, East Chicago, Ind.
Filed Mar. 10, 1953, Serial No. 643,414. Published Aug. 4, 1953. Class 46.

583,458. Combination Package Consisting of Yeast, Flour Mixture, and Pizza Sauce, Used To Make Pizza Pies and Other Pizza Products. Food Specialties, Inc., Plymouth, Mass.
Filed Mar. 11, 1953, Serial No. 643,481. Published Aug. 4, 1953. Class 46.

583,459. Metal Cutting Saw Blades and Frames. Diamond Saw Works, Inc., Buffalo, N. Y.
Filed Mar. 12, 1953, Serial No. 643,541. Published July 14, 1953. Class 23.

583,460. Liquid Concentrate of Flavoring Materials for Use in the Manufacture of Food Flavoring Extracts, Compounds, Concentrates, and Syrups. Flavor Corporation of America, Chicago, Ill.
Filed Mar. 12, 1953, Serial No. 643,543. Published Sept. 15, 1953. Class 46.

583,461. Self Balancing Extractor Tumblers and Combination Washer-Extractor Tumblers and Parts Thereof. United States Hoffman Machinery Corporation, Syracuse and New York, N. Y.
Filed Mar. 12, 1953, Serial No. 643,568. Published Sept. 22, 1953. Class 24.

583,462. Series of Stereoscopic Motion Picture Films, Creating an Illusion of Three Dimensions, Synchronized With a Stereophonic-Type Sound. Universal Pictures Company, Inc., New York, N. Y.
Filed Mar. 12, 1953, Serial No. 643,573. Published Sept. 15, 1953. Class 26.

583,463. Toilet and Cosmetic Products—Namely, Vanishing Cream. Pond's Extract Company, New York, N. Y., and elsewhere.
Filed Mar. 13, 1953, Serial No. 643,609. Published Sept. 15, 1953. Class 51.

583,464. Toilet and Cosmetic Product—Namely, Cold Cream. Pond's Extract Company, New York, N. Y., and elsewhere.
Filed Mar. 13, 1953, Serial No. 643,610. Published Sept. 15, 1953. Class 51.

583,465. Partially Baked Frozen Waffles Required To Be Toasted or Broiled Before Serving. Cottage Products, Incorporated, New York, N. Y.
Filed Mar. 16, 1953, Serial No. 643,659. Published Sept. 15, 1953. Class 46.

583,466. Toilet Preparations—Namely, a Dandruff Remover. Grant Wilkins, doing business as Norfleet Products, Atlanta, Ga.
Filed Mar. 16, 1953, Serial No. 643,747. Published Sept. 15, 1953. Class 51.

583,467. Children's Play Cartridge Belts, Crayon Receptacles, Coloring Books, Balloons and Other Inflatable Toys, Children's Pocket Knives, Toy Soldiers, Toy Tanks, Toy Planes, Toy Guns, Toy Tents, Toy Mess Kits. Ziff-Davis Publishing Company, New York, N. Y.
Filed Mar. 16, 1953, Serial No. 643,750. Published Sept. 15, 1953. Class 22.

583,468. Canned Dog Food. Inland Products, Inc., Columbus, Ohio.
Filed Mar. 17, 1953, Serial No. 643,764. Published Aug. 4, 1953. Class 46.

583,469. Men's and Boys' Finger-Tip Coats. Lustberg, Nast & Co., Inc., New York, N. Y.
Filed Mar. 17, 1953, Serial No. 643,768. Published Sept. 8, 1953. Class 39.

583,470. Fountain Pens, Mechanical Pencils, and Pen and Pencil Desk Sets. The Parker Pen Company, Janesville, Wis.
Filed Mar. 17, 1953, Serial No. 643,782. Published Sept. 15, 1953. Class 37.

583,471. Fountain Pens, Mechanical Pencils, and Pen and Pencil Desk Sets. The Parker Pen Company, Janesville, Wis.
Filed Mar. 17, 1953, Serial No. 643,785. Published Sept. 15, 1953. Class 37.

583,472. Ball Point Pens. Scripto, Inc., Atlanta, Ga.
Filed Mar. 17, 1953, Serial No. 643,793. Published Sept. 15, 1953. Class 37.

583,473. Earthenware Articles of Children's Tableware. Doulton & Co., Limited, Burslem and London, England.
Filed Mar. 18, 1953, Serial No. 643,824. Published July 28, 1953. Class 30.

583,474. Pocketbooks, Purses, and Wallets. G. R. Godfrey Company, Gardner, Mass.
Filed Mar. 19, 1953, Serial No. 643,902. Published Sept. 8, 1953. Class 3.

583,475. Ladies' Handbags. Associated Plastics Company, Inc., New York, N. Y.
Filed Mar. 25, 1953, Serial No. 644,156. Published Sept. 8, 1953. Class 3.

583,476. Ladies' Handbags. Associated Plastics Company, Inc., New York, N. Y.
Filed Mar. 25, 1953, Serial No. 644,157. Published Sept. 8, 1953. Class 3.

583,477. Photographic Exposure Frames for Making Photographic Contact Prints Through Negatives and for Self-Contained Illuminated Magnifier Units. Colwell Litho Products Inc., Minneapolis, Minn.
Filed Mar. 26, 1953, Serial No. 644,224. Published Sept. 8, 1953. Class 26.

583,478. Canned Fruits and Canned Vegetables. Flotill Products, Incorporated, Stockton, Calif.
Filed Mar. 26, 1953, Serial No. 644,228. Published Sept. 8, 1953. Class 46.

583,479. Men's and Women's Hand Luggage. Henry L. Kotkins, doing business as Skyway Luggage Company, Seattle, Wash.
Filed Mar. 27, 1953, Serial No. 644,325. Published Sept. 8, 1953. Class 3.

583,480. Cattle Feed. Southern Milling Company, Augusta, Ga.
Filed Mar. 30, 1953, Serial No. 644,461. Published Sept. 8, 1953. Class 46.

583,481. Playing Cards. W. H. Storey & Co. Ltd., Croydon, Surrey, England.
Filed Mar. 31, 1953, Serial No. 644,528. Published Sept. 22, 1953. Class 22.

583,482. Daylight Developing Tank. Agfa Camera Werk München, Munich, Germany.
Filed Apr. 2, 1953, Serial No. 644,587. Published Sept. 8, 1953. Class 26.

583,483. Children's Building Elements. Toy Tinkers, Inc., Evanston, Ill., assignor to A. G. Spalding & Bros., Inc., Chicopee, Mass., a corporation of Delaware.
Filed Apr. 3, 1953, Serial No. 644,697. Published Sept. 15, 1953. Class 22.

583,484. Insulating Material for Electrical Insulation, Etc. The William Brand and Co. Inc., Willimantic, Conn.
Filed Apr. 8, 1953, Serial No. 644,893. Published Sept. 1, 1953. Class 21.

583,485. Canned Tuna Fish. Earl M. Nielsen, San Diego, Calif.
Filed Apr. 10, 1953, Serial No. 645,053. Published Aug. 11, 1953. Class 46.

583,486. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed Apr. 13, 1953, Serial No. 645,132. Published Sept. 15, 1953. Class 42.

583,487. Electro-Mechanical Massager. Ward Green Company, New York, N. Y.
Filed Apr. 13, 1953, Serial No. 645,208. Published Sept. 22, 1953. Class 44.

583,488. Ice Cream Stabiliser. Germantown Manufacturing Company, Philadelphia, Pa.
Filed Apr. 15, 1953, Serial No. 645,301. Published Aug. 11, 1953. Class 46.

583,489. Toy Pistol. Louis Marx & Co., Inc., New York, N. Y.
Filed Apr. 15, 1953, Serial No. 645,330. Published Sept. 15, 1953. Class 22.

583,490. Textile Fabrics in the Piece of Cotton and Synthetic Fibers. Dan River Mills, Incorporated, Danville, Va.
Filed Apr. 15, 1953, Serial No. 645,360. Published Sept. 15, 1953. Class 42.

583,491. Desiccant for Use in Packaging Food, Pharmaceuticals, and Other Products. Culligan, Inc., Northbrook, Ill.
Filed Apr. 16, 1953, Serial No. 645,395. Published Sept. 15, 1953. Class 6.

583,492. Concentrate Liquid Chemical Used in a Solution as a Spray on Weeds, for the Purpose of Destroying Said Weeds. Thompson Chemicals Corporation, Los Angeles, Calif.
Filed Apr. 16, 1953, Serial No. 645,441. Published Sept. 15, 1953. Class 6.

583,493. Women's and Girls' Pants. The William Carter Company, Needham Heights, Mass.
Filed Apr. 17, 1953, Serial No. 645,462. Published Sept. 8, 1953. Class 39.

583,494. Disinfectant. Raffaele De Angelis, doing business under the name of Thymoform Company, Providence, R. I.
Filed Apr. 17, 1953, Serial No. 645,467. Published Sept. 15, 1953. Class 6.

583,495. Sugar. The Great Western Sugar Company, Denver, Colo.
Filed Apr. 17, 1953, Serial No. 645,481. Published Sept. 8, 1953. Class 46.

583,496. Paper Bags. Wolf Brothers, Inc., Philadelphia, Pa.
Filed Apr. 20, 1953, Serial No. 645,612. Published Sept. 15, 1953. Class 2.

583,497. Paper Bags. Wolf Brothers, Inc., Philadelphia, Pa.
Filed Apr. 20, 1953, Serial No. 645,613. Published Sept. 15, 1953. Class 2.

583,498. Electrical Apparatus — Namely, Electronic Switchboards. Kliegl Bros. Universal Electric Stage Lighting Co., Inc., New York, N. Y.
Filed Apr. 22, 1953, Serial No. 645,718. Published Sept. 15, 1953. Class 21.

583,499. Food Preparation Containing Vegetable Ingredients, Seasoning, and Flavoring, Which Is Spread on Meats To Seal the Juices During the Process of Cooking. Wass Food Products Company, Chicago, Ill.
Filed Apr. 22, 1953, Serial No. 645,750. Published Sept. 8, 1953. Class 46.

583,500. Vaginal Syringes. Roycemore Toiletries, Inc., doing business as Shy Products Co., Chicago, Ill.
Filed Apr. 27, 1953, Serial No. 646,018. Published Sept. 22, 1953. Class 44.

583,501. Elastic Thread. Lowell Covered Rubber Thread Co., Inc., Lowell, Mass.
Filed Apr. 28, 1953, Serial No. 646,072. Published Sept. 8, 1953. Class 43.

583,502. Card Game. Thomas B. R. Peters, Kansas City, Kans.
Filed May 6, 1953, Serial No. 646,572. Published Sept. 22, 1953. Class 22.

583,503. Sweetened Coconut. K. J. Preiswerck Ltd., Vancouver, British Columbia, Canada.
Filed June 1, 1953, Serial No. 648,043. Published Sept. 8, 1953. Class 46.

583,504. Margarine. Standard Brands Incorporated, New York, N. Y.
Filed June 5, 1953, Serial No. 648,335. Published Sept. 8, 1953. Class 46.

583,505. Aircraft Seats. The Aerotherm Corporation, Bantam, Conn.
Filed June 8, 1953, Serial No. 648,344. Published Sept. 22, 1953. Class 19.

583,506. Fishing Lines. Rain-Beau Products Company, Canton, Mass., assignor to The Springfield Company, Ware, Mass., a corporation of Massachusetts.
Filed June 23, 1953, Serial No. 649,249. Published Sept. 15, 1953. Class 22.

583,507. Base Balls, Basket Balls, Foot Balls, Soft Balls, Baseball Gloves and Mitts, Boxing Gloves, Striking Bags, and Minnow Buckets. Marshall-Wells Company, Duluth, Minn.
Filed July 3, 1953, Serial No. 649,800. Published Sept. 22, 1953. Class 22.

583,508. Fishing and Spinning Reels, Fishing and Spinning Rods, Fishing Plugs, Spinners, Lures, and Artificial Bait for Fish. Airex Corporation, New York, N. Y.
Filed July 6, 1953, Serial No. 649,860. Published Sept. 22, 1953. Class 22.

Service Marks

583,509. Cleaning and Glazing of Furs and Fur Garments. Nathan Root, doing business as Root & Company, Grand Rapids, Mich.
Filed Dec. 29, 1948, Serial No. 571,293. Published Sept. 15, 1953. Class 103.

583,510. Making Photographic Prints From Customers' Original Records; Developing and Printing Photographic Films; Renting Photographic Equipment; Maintaining and Repairing Photographic Equipment of Others. Diebold, Incorporated, Canton, Ohio.
Filed Sept. 21, 1949, Serial No. 585,108. Published Sept. 15, 1953. Class 103.

583,511. Producing Motion Picture Film for Others and Leasing Film on a Contract Basis. John Convery, doing business as Television Corporation of America, Alameda, Calif., and Washington, D. C.
Filed Aug. 10, 1950, Serial No. 602,022. Published Sept. 8, 1953. Class 107.

583,512. Cleaning of Fur Coats. Morton's Inc., Boston, Mass.
Filed Sept. 8, 1951, Serial No. 618,549. Published Sept. 15, 1953. Class 103.

583,513. Heat Treating Metals and Metal Alloys To Change the Mechanical Properties, To Change the Surface Characteristics, and Impart Thereto Resistance to Corrosion. Metallurgical Laboratories, Inc., Wyndmoor, Pa.
Filed Aug. 27, 1952, Serial No. 634,540. Published Sept. 8, 1953. Class 106.

583,514. Cleaning and Painting the Interior of Pipe Lines, Wells, and the Like. Pipelife, Inc., Odessa, Tex.
Filed Feb. 9, 1953, Serial No. 641,965. Published Sept. 15, 1953. Class 103.

583,515. Repair and Maintenance of Cargo Trailers — Namely, Replacing Body Panels, Etc. Trailmobile Inc., Cincinnati, Ohio.
Filed Mar. 6, 1953, Serial No. 643,253. Published Sept. 8, 1953. Class 103.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

583,516. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) E. F. Hager & Son, Queens Village, N. Y. Original filed, act of 1946, Principal Register, Sept. 29, 1948; amended to application, Supplemental Register, June 25, 1952, Serial No. 566,079.

HAGER

The words "Precision Machinery and Tools" and the micrometer which simulates the letter "G" in the mark are disclaimed.
For Grinder Machines for Use in Precision Grinding, Cutting and Surfacing; Attachments for Such Machines — Namely, an Adjustable Table, an Adjustable Work Clamp, a V-Block Tool Support, an Angular Work Support, a Lathe Work Support, a Rocking Support, a Radius Grinder and a Chip Breaker; and a Center Punch.
Claims use since July 1, 1944.

583,517. (Class 46. Foods and Ingredients of Foods.) Pollio Dairy Products Corporation, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, May 21, 1949; amended to application, Supplemental Register, Sept. 8, 1953, Serial No. 579,293.

POLLIO

For Cheese.
Claims use since Jan. 5, 1948.

583,518. (Class 32. Furniture and Upholstery.) Felix Augenfeld, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 17, 1949; amended to application, Supplemental Register, Jan. 11, 1951, Serial No. 587,930.



For Stands, Wall Panels and Shelves Made From Metal for Display Purposes, in Particular for Flowers.
Claims use since November 1947.

583,519. (Class 46. Foods and Ingredients of Foods.) Bell Brand Foods, Ltd., Vernon, Calif. Original filed, act of 1946, Principal Register, Sept. 19, 1950; amended to application, Supplemental Register, Dec. 29, 1952, Serial No. 603,726.

"If it's Bell - it's swell!"

Applicant claims ownership of Registration No. 434,791.
For Potato Chips, Cheese Puffs, Corn Chips, French Fried Potatoes, and Peanut Butter.
Claims use since June 6, 1946.

583,520. (Class 48. Malt Beverages and Liquors.) The Geo. Wiedemann Brewing Co., Inc., Newport, Ky. Original filed, act of 1946, Principal Register, Sept. 20, 1950; amended to application, Supplemental Register, Aug. 14, 1953, Serial No. 603,826.

WIEDEMANN'S FINE BEER

The word "Beer" is disclaimed apart from the mark. Applicant claims ownership of Registrations Nos. 354,655, 384,217, and 384,216.
For Beer.
Claims use since Jan. 1, 1882.

583,521. (Class 46. Foods and Ingredients of Foods.) The Huron Milling Company, Harbor Beach, Mich. Original filed, act of 1946, Principal Register, Mar. 10, 1951; amended to application, Supplemental Register, Sept. 8, 1953, Serial No. 611,132.

Huron MSG

For Monosodium Glutamate for Food Seasoning Purposes.
Claims use since Dec. 7, 1949.

583,522. (Class 46. Foods and Ingredients of Foods.) Pfeiffer's Food Products, Inc., Buffalo, N. Y. Original filed, act of 1946, Principal Register, Mar. 23, 1951; amended to application, Supplemental Register, Oct. 16, 1953, Serial No. 611,717.

IMPERIAL DANISH

For Dressing for Salads.
Claims use since Feb. 19, 1951.

583,523. (Class 39. Clothing.) Art-Mor Togs Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 1, 1951; amended to application, Supplemental Register, May 14, 1952, Serial No. 614,607.

play-pack

For Ladies' and Misses' Ensembles Sold as a Unit and Comprising the Following—Blouse, Midriff, Shorts, Skirt and Jacket, and Playsuits.
Claims use since February 1951.

583,524. (Class 32. Furniture and Upholstery.) John E. Wells, doing business under the firm name of Wells Furniture Manufacturing Company, Laurel, Miss. Original filed, act of 1946, Principal Register, July 9, 1951; amended to application, Supplemental Register, Mar. 2, 1953, Serial No. 616,262.

"Wells-Made MEANS Well-Made"

For Office, School, and Household Furniture, Particularly Desks, Chairs, Tables, Sofas.
Claims use since October 1934.

583,525. (Class 21. Electrical Apparatus, Machines, and Supplies.) Adelor A. Lambert, Round Lake, Ill. Original filed, act of 1946, Principal Register, Aug. 24, 1951; amended to application, Supplemental Register, Mar. 6, 1953, Serial No. 618,048.



The representation of the drinking glass, the goods, and the words "Bar Lite" are disclaimed.
For Electrical Signal Light Intended for Use on Counters in Restaurants or the Like Whereby Customers May Indicate When Service Is Desired.
Claims use since Apr. 18, 1951.

583,526. (Class 51. Cosmetics and Toilet Preparations.) Reddi Pressure Products Inc., St. Louis, Mo. Original filed, act of 1946, Principal Register, Jan. 28, 1952; amended to application, Supplemental Register, Feb. 9, 1953, Serial No. 624,206.

Redi-shave

Applicant claims ownership of Registration No. 564,812.
For Shaving Lather Packaged in Pressure Dispensers.
Claims use since Jan. 22, 1952, and since Dec. 13, 1950 in a different form.

583,527. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Utica Drop Forge & Tool Corporation, Utica, N. Y. Original filed, act of 1946, Principal Register, Feb. 2, 1952; amended to application, Supplemental Register, Jan. 21, 1953, Serial No. 624,457.

RIB-LOCK

For Adjustable Pivot Hand Tools—Namely, Pliers.
Claims use since Jan. 3, 1952.

583,528. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Wickes Corporation, Saginaw, Mich. Original filed, act of 1946, Principal Register, Mar. 4, 1952; amended to application, Supplemental Register, May 25, 1953, Serial No. 625,937.

STATITE

For Shunt Connections on Carbon Brushes for All Rotating Electrical Equipment.
Claims use since Jan. 19, 1950.

583,529. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Barrett, Haentjens & Co., Hazleton, Pa. Original filed, act of 1946, Principal Register, June 21, 1952; amended to application, Supplemental Register, June 1, 1953, Serial No. 631,531.

KLEERSEAL

For Stuffing Box for a Mechanical Joint.
Claims use since July 1, 1950.

583,530. (Class 40. Fancy Goods, Furnishings, and Notions.) Empire Brushes, Inc., Port Chester, N. Y. Original filed, act of 1946, Principal Register, June 24, 1952; amended to application, Supplemental Register, Aug. 26, 1953, Serial No. 631,655.

Copperglo

For Men's Nylon Brush and Comb Sets.
Claims use since Mar. 3, 1952.

583,531. (Class 39. Clothing.) John Vaters, Jr., trading as Vaters Shoes, Family Shoe Store, and Family Shoe Stores, Arlington, Va., and Washington, D. C. Original filed, act of 1946, Principal Register, June 27, 1952; amended to application, Supplemental Register, July 28, 1953, Serial No. 631,904.

VATERS

For Men's, Women's, and Children's Footwear—Namely, Shoes; Men's, Women's, and Children's Rainwear—Namely, Rubbers, Overshoes, Plastic Shoes and Boots; Men's, Women's, and Children's Hosiery—Namely, Socks.
Claims use since Mar. 3, 1952.

583,532. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Rugcrofters, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 10, 1952; amended to application, Supplemental Register, May 19, 1953, Serial No. 632,392.

TEXTURE THROUGH TECHNIQUE

For Textile Rugs and Carpets.
Claims use since May 9, 1949.

583,533. (Class 39. Clothing.) Kork-Ease, Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, July 16, 1952; amended to application, Supplemental Register, May 11, 1953, Serial No. 632,621.

KORK-EASE SANDALS Hand Made IMPORTED WATER BUFFALO

For Sandals for Men, Women, and Children.
Claims use since Oct. 1, 1949.

583,534. (Class 48. Malt Beverages and Liquors.) The Geo. Wiedemann Brewing Co., Inc., Newport, Ky. Original filed, act of 1946, Principal Register, July 25, 1952; amended to application, Supplemental Register, Aug. 13, 1953, Serial No. 633,095.

CHANGE TO THE BEER THAT NEVER CHANGES..

For Beer.
Claims use since on or about Nov. 5, 1951.

583,535. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Battenfeld Grease & Oil Corp., Kansas City, Mo. Original filed, act of 1946, Principal Register, Sept. 29, 1952; amended to application, Supplemental Register, Sept. 30, 1953, Serial No. 635,896.

"QUIK-SNAP"

For Detachable Spouts for Caulking Guns.
Claims use since Sept. 9, 1952.

583,536. (Class 22. Games, Toys, and Sporting Goods.) Thomas E. Rodman, Glencoe, Ill. Original filed, act of 1946, Principal Register, Oct. 14, 1952; amended to application, Supplemental Register, Oct. 7, 1953, Serial No. 636,609.

STUNTSTILTS

For Stilts.
Claims use since Sept. 22, 1952.

583,537. (Class 48. Malt Beverages and Liquors.) Boston Beer Company, South Boston, Mass. Original filed, act of 1946, Principal Register, Oct. 15, 1952; amended to application, Supplemental Register, Aug. 19, 1953, Serial No. 636,626.

Dresden

For Beer.
Claims use since May 12, 1952.

583,538. (Class 39. Clothing.) Saks & Company, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 31, 1952; amended to application, Supplemental Register, Sept. 3, 1953, Serial No. 637,464.

Degas

Degas was the well-known French painter, Hilaire Germain Edgard Degas, now deceased.
For Women's and Misses' Shoes Made of Leather, Rubber, Plastic, and Fabric, and Combinations Thereof.
Claims use since June 5, 1952.

583,539. (Class 46. Foods and Ingredients of Foods.) Michigan Fruit Canners, Inc., Benton Harbor, Mich. Original filed, act of 1946, Principal Register, Nov. 14, 1952; amended to application, Supplemental Register, Sept. 8, 1953, Serial No. 638,092.



The drawing is lined for red, yellow, and blue. Applicant claims ownership of Registration No. 384,355.
For Canned Fruit and Berry Pie Fillings.
Claims use since May 16, 1951.

583,540. (Class 19. Vehicles.) Smith Metal Arts Company, Inc., Buffalo, N. Y. Original filed, act of 1946, Principal Register, Nov. 22, 1952; amended to application, Supplemental Register, Aug. 20, 1953, Serial No. 638,499.

AIR-PULSE

For Seat Cushions Having Pneumatically Operated Pulsation Features and for Use With the Seats of Aircraft and Other Vehicles.
Claims use since on or about July 11, 1952.

583,541. (Class 2. Receptacles.) Nu-Dell Plastics Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 28, 1952; amended to application, Supplemental Register, Aug. 14, 1953, Serial No. 638,736.



Applicant disclaims the words "Pearl Plastic" apart from the mark as shown.

For Plastic Article Holders—Namely, Tissue Dispensing Boxes, Soap Dishes, Toothbrush Racks, Towel Bars, and Drinking Glass Racks.

Claims use since Aug. 1, 1952.

583,542. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Clayton Carpet Mills, Spartanburg, S. C. Original filed, act of 1946, Principal Register, Dec. 16, 1952; amended to application, Supplemental Register, Sept. 2, 1953, Serial No. 639,553.

Fashion Loom

For Woven Carpets.

Claims use since June 15, 1952.

583,543. (Class 2. Receptacles.) P. O. Moore, Inc., New York, N. Y. Filed Feb. 6, 1953, Serial No. 641,855.

MOORE KEY CONTROL

Applicant claims ownership of Registration No. 540,613.

For Envelopes for Storing Keys.

Claims use since Mar. 11, 1949.

583,544. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) The Leather Specialty Co., Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Feb. 26, 1953; amended to application, Supplemental Register, Sept. 11, 1953, Serial No. 642,860.

Brief-Niter

For Overnight Bag With Compartments for Papers, and Clothing.

Claims use since October 1950.

583,545. (Class 2. Receptacles.) C. W. Golden, doing business as Golden Lithograph Company, San Francisco, Calif. Original filed, act of 1946, Principal Register, Mar. 16, 1953; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 643,676.

GOLDEN FOLDER HOLDER

Applicant claims ownership of Registration No. 562,082.

For Collapsible Cardboard, Boxlike Containers Designed To Be Attached to a Flat Surface and From Which Advertising Leaflets May Be Dispensed.

Claims use since Sept. 1, 1949.

583,546. (Class 47. Wines.) The Globe Distributing Company, Washington, D. C. Filed Apr. 15, 1953, Serial No. 645,303.

EDLAVITCH

For Wines.

Claims use since Apr. 10, 1951.

583,547. (Class 46. Foods and Ingredients of Foods.) Harmon & Reid, Grants, N. Mex. Original filed, act of 1946, Principal Register, June 22, 1953; amended to application, Supplemental Register, Sept. 4, 1953, Serial No. 649,150.

Harmon

Applicant claims ownership of Registration No. 407,741.

For Fresh Vegetables.

Claims use since Aug. 6, 1952.

583,548. (Class 40. Fancy Goods, Furnishings, and Notions.) Mark M. Grubman, New York, N. Y. Original filed, act of 1946, Principal Register, May 21, 1953; amended to application, Supplemental Register, Sept. 16, 1953, Serial No. 647,414.



For Necktie Clasps Made of Non-Precious Metal To Be Attached to Four-in-Hand Neckties To Prevent the Latter From Shifting.

Claims use since Sept. 9, 1952.

583,549. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) D. B. Fuller & Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 22, 1953; amended to application, Supplemental Register, Aug. 19, 1953, Serial No. 647,492.

CRACKLECRISP

Applicant claims ownership of Registration No. 545,014.

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres and Mixtures Thereof.

Claims use since Aug. 11, 1952.

583,550. (Class 39. Clothing.) Leeds Ltd. Coats, Inc., New York, N. Y. Filed May 26, 1953, Serial No. 647,701.

LUSTRELAINE

Applicant claims ownership of Registration No. 408,679.

For Ladies' and Misses' Coats and Suits of Woolen Fabrics.

Claims use since Apr. 1, 1936.

583,551. (Class 39. Clothing.) Leeds Ltd. Coats, Inc., New York, N. Y. Filed May 29, 1953, Serial No. 647,939.

the young LEEDS look

Applicant claims ownership of Registration No. 409,636.

For Ladies' and Misses' Coats and Suits.

Claims use since Dec. 2, 1941.

583,552. (Class 39. Clothing.) Leeds Ltd. Coats, Inc., New York, N. Y. Filed May 27, 1953, Serial No. 647,980.

ALL-CLIMATE

Applicant claims ownership of Registration No. 391,348.

For Women's, Misses', and Juniors' Coats, Suits, Jackets, Capes, Skirts, Coat and Suit Ensembles, and Suit and Cape Ensembles.

Claims use since Apr. 15, 1940.

583,553. (Class 39. Clothing.) Beaumart Co., New York, N. Y. Filed June 16, 1953, Serial No. 648,835.

AIRWAY GOLFER
Fashioned by Beaumart

For Ladies' and Misses' Dresses.

Claims use since Feb. 18, 1952; and since June 1, 1932, as to "Beaumart."

TRADE-MARK REGISTRATIONS RENEWED

40,866. BLUE RIBBON. Registered Aug. 4, 1903. Wood, Stubbs & Co., Louisville, Ky. Re-renewed Aug. 4, 1953, to Allied Seed Company, Inc., Ithaca, N. Y., a corporation of Indiana. Garden-Seeds, Flower-Seeds, Vegetable-Seeds, Etc. Class 1.

92,372. JOAN-OF-ARC. Registered July 1, 1913. Alex D. Shaw & Co., New York, N. Y. Re-renewed July 1, 1953, to Bisquit Dubouche & Cie Laporte Bisquit & Cie succrs., Jarnac, France, a corporation of France. Brandy. Class 49.

93,475. "PALM" AND DESIGN. Registered Sept. 16, 1913. Standard Oil Company, Richmond, Calif. Re-renewed Sept. 16, 1953, to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware. Refined Oil, Gasolene, Lubricating Oils and Greases. Class 15.

94,956. "KING GEORGE" BRAND. Registered Jan. 13, 1914. Strohmeyer & Arpe Company, New York, N. Y., a corporation of New York. Re-renewed Jan. 13, 1954. Canned Vegetables, Canned Fruits, and Canned Fish. Class 46.

95,099. RED H. Registered Feb. 3, 1914. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Re-renewed Feb. 3, 1954. Dynamite. Class 9.

95,192. REPRESENTATION OF MAN MAKING FLAPJACKS. Registered Feb. 3, 1914. Albers Bros. Milling Co., San Francisco, Calif. Re-renewed Feb. 3, 1954, to Albers Milling Company, Los Angeles, Calif., a corporation of Oregon. Compound Flour Whose Ingredients Comprise Middlings, Buckwheat-Flour and Rye-Flour. Class 46.

95,236. "BOUQUET" BRAND. Registered Feb. 3, 1914. Strohmeyer & Arpe Company, New York, N. Y., a corporation of New York. Re-renewed Feb. 3, 1954. Canned Fish. Class 46.

306,022. CUTTY SARK. Registered Sept. 5, 1933. Berry Bros. & Co. Renewed Sept. 5, 1953, to Berry Bros. & Rudd Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Spirits—Namely, Whisky and Other Potable Distilled Liquors. Class 49.

306,045. WHEELABRATOR. Registered Sept. 5, 1933. The American Foundry Equipment Company. Renewed Sept. 5, 1953, to American Wheelabrator & Equipment Corporation, Mishawaka, Ind., a corporation of Nebraska. Machines for Discharging Streams of Abrasive Particles To Clean Castings, Etc. Class 23.

306,059. "WORCESTER SALT" ETC. AND DESIGN LINED FOR YELLOW OR ORANGE. Registered Sept. 5, 1933. Worcester Salt Company, New York, N. Y. Renewed Sept. 5, 1935, to Morton Salt Company, Chicago, Ill., a corporation of Illinois. Tooth Paste. Class 51.

306,637. MONEYGRAM. Registered Sept. 26, 1933. The First National Bank of Chicago, Chicago, Ill., organized under the banking laws of the United States. Renewed Sept. 26, 1953. Printed Forms for Use in Transmitting Money in Interstate and Foreign Commerce. Class 37.

306,912. PENN-MANOR. Registered Oct. 3, 1933. Allied Petroleum Corporation. Renewed Oct. 3, 1953, to Industrial Oil Corporation, Warren, Pa., a corporation of Pennsylvania. Lubricating Oils. Class 15.

307,008. RESYL. Registered Oct. 10, 1933. Society of Chemical Industry in Basle, Basel, Switzerland. Renewed Oct. 10, 1953, to Ciba Pharmaceutical Products, Inc., Summit, N. J., a corporation of New Jersey. Pharmaceutical Product for the Treatment of Affections of the Respiratory Organs. Class 18.

307,412. "ST. JAMES SCOTCH WHISKY" ETC. AND DESIGN. Registered Oct. 24, 1933. Berry Bros. & Co. Renewed Oct. 24, 1953, to Berry Bros. & Rudd Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Scotch Whisky. Class 49.

307,531. HIGH-FIELD. Registered Oct. 31, 1933. Allied Petroleum Corporation. Renewed Oct. 31, 1953, to Industrial Oil Corporation, Warren, Pa., a corporation of Pennsylvania. Lubricating Oils. Class 15.

308,229. PENN-POOL. Registered Nov. 28, 1933. Allied Petroleum Corporation. Renewed Nov. 28, 1953, to Industrial Oil Corporation, Warren, Pa., a corporation of Pennsylvania. Lubricating Oils. Class 15.

308,404. PHOSTONE. Registered Dec. 5, 1933. Robert Lincoln McNeil, doing business as Robert McNeil, assignor to McNeil Laboratories, Inc. Renewed Dec. 5, 1953, to McNeil Laboratories, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Medicinal Elixirs and Capsules Useful as Reconstructive Tonics and Nerve Stimulants. Class 18.

308,405. PASSIPHEN. Registered Dec. 5, 1933. Robert Lincoln McNeil, doing business as Robert McNeil, assignor to McNeil Laboratories, Inc. Renewed Dec. 5, 1953, to McNeil Laboratories, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Medicinal Tablets Useful as a Sedative and Antispasmodic. Class 18.

308,406. NITROBAR. Registered Dec. 5, 1933. Robert Lincoln McNeil, doing business as Robert McNeil, assignor to McNeil Laboratories, Inc. Renewed Dec. 5, 1953, to McNeil Laboratories, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Medicinal Tablets Useful as Vaso-Dilators. Class 18.

308,408. KACYAN. Registered Dec. 5, 1933. Robert Lincoln McNeil, doing business as Robert McNeil, assignor to McNeil Laboratories, Inc. Renewed Dec. 5, 1953, to McNeil Laboratories, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Medicinal Elixirs, Capsules, and Tablets Useful as a Vaso-Dilator. Class 18.

308,409. CORMATAL. Registered Dec. 5, 1933. Robert Lincoln McNeil, doing business as Robert McNeil, assignor to McNeil Laboratories, Inc. Renewed Dec. 5, 1953, to McNeil Laboratories, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Medicinal Lotion Useful for Prophylaxis and Treatment of Impetigo Contagiosa and Similar Conditions. Class 18.

308,411. BROMIDONNA. Registered Dec. 5, 1933. Robert Lincoln McNeil, doing business as Robert McNeil, assignor to McNeil Laboratories, Inc. Renewed Dec. 5, 1953, to McNeil Laboratories, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Medicinal Elixirs Useful as Nerve Sedatives and Anti-Spasmodics and Having Laxative Properties. Class 18.

308,629. KING TASTE. Registered Dec. 12, 1933. The Capital City Products Company, Columbus, Ohio, a corporation of Delaware. Renewed Dec. 12, 1953. Mayonnaise, Cooking Oil, and French Dressing. Class 46.

308,736. "TRULINE" AND DESIGN. Registered Dec. 19, 1933. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Renewed Dec. 19, 1953. Dry Core Binders in Casting Metals. Class 5.

309,208. "COMMENDADOR" ETC. AND DESIGN. Registered Jan. 9, 1934. Feuerheerd Brothers & Company, Limited, St. Helier, Jersey, Channel Islands. Renewed Jan. 9, 1954, to Feuerheerd Brothers & Companhia Limitada, Oporto, Portugal, a company incorporated under the laws of Portugal. Port Wine. Class 47.

309,301. REPRESENTATION OF PARALLELOGRAM WITHIN CIRCLE DESIGN. Registered Jan. 9, 1934. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Jan. 9, 1954. Frozen Eggs—Namely, Frozen Whole Eggs, Frozen Egg Whites, and Frozen Egg Yolks. Class 46.

309,344. FIBEROCK. Registered Jan. 9, 1934. Kleckhefer Container Company, Milwaukee, Wis. Renewed Jan. 9, 1954, to Kleckhefer Container Company, Camden, N. J., a corporation of Delaware. Paperboard Shipping Baskets. Class 2.

309,358. "CHAMPIGNON" ETC. AND DESIGN. Registered Jan. 9, 1934. Camembert Industrie Helsing, Hirschle & Immler, Helsing, Germany, a firm of Germany. Renewed Jan. 9, 1954. Cheese. Class 46.

309,869. MOONLIGHT CREPE. Registered Feb. 6, 1934. Crown Fabrics Corporation, New York, N. Y., a corporation of New York. Renewed Feb. 6, 1954. Rayon and Cotton Goods in the Piece. Class 42.

309,889. "TITANOX" AND DESIGN. Registered Feb. 6, 1934. Titanium Pigment Company, Inc. Renewed Feb. 6, 1954, to National Lead Company, New York, N. Y., a corporation of New Jersey. Paints, Whether Dry, Paste, or Ready Mixed, and Paint Pigments. Class 16.

310,060. BOND & LILLARD. Registered Feb. 13, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Feb. 13, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

310,070. U. S. CLUB. Registered Feb. 13, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Feb. 13, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

310,115. BLUE GRASS. Registered Feb. 13, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Feb. 13, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

310,122. BOONE'S KNOLL. Registered Feb. 13, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Feb. 13, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

310,132. VICOLIRIUM. Registered Feb. 13, 1934. John Wyeth and Brother Incorporated. Renewed Feb. 13, 1954, to American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa., a corporation of Delaware. Eye Lotions, Eye Washes, and Antiseptics. Class 18.

310,134. VIANOIDES. Registered Feb. 13, 1934. John Wyeth and Brother Incorporated. Renewed Feb. 13, 1954, to American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa., a corporation of Delaware. Hemorrhoidal Suppositories. Class 18.

310,137. SPRING GARDEN. Registered Feb. 13, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Feb. 13, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

310,239. TEX-KNUT. Registered Feb. 13, 1934. De Leon Peanut Company, De Leon, Tex., a corporation of Texas. Renewed Feb. 13, 1954. Shelled Peanuts. Class 46.

310,331. GREAT BEAR. Registered Feb. 20, 1934. Great Bear Spring Company, New York, N. Y., a corporation of New Jersey. Renewed Feb. 20, 1954. Ice Cooled or Electrically Operated Water Coolers. Class 31.

310,407. "MANISCHEWITZ" AND DESIGN. Registered Feb. 27, 1934. The B. Manischewitz Company, Jersey City, N. J., and Cincinnati, Ohio, a corporation of Ohio. Renewed Feb. 27, 1954. Crackers of Unleavened Bread Known as "Matzos." Class 46.

310,434. COON HOLLOW. Registered Feb. 27, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Feb. 27, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

310,512. CALCIBRONAT. Registered Feb. 27, 1934. Sandos Chemical Works, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 27, 1954. Sedative for Reducing or Regulating Cerebral, Nervous, Muscular, and Glandular Functions. Class 18.

310,517. VIROFOS. Registered Feb. 27, 1934. John Wyeth and Brother Incorporated. Renewed Feb. 27, 1954, to American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa., a corporation of Delaware. Elixir of Glycero Phosphoric Compound—Namely, a Tonic, a Stimulant, and an Appetizer. Class 18.

310,733. BLUE RIBBON. Registered Mar. 6, 1934. Rushmore Paper Mills, Inc., Windsor Locks, Conn., and New York, N. Y. Renewed Mar. 6, 1954, to Rushmore Paper Mills, Inc., Gouverneur, N. Y., a corporation of New York. Paper, Particularly Wax Paper. Class 37.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

580,231. TOWN AND COUNTRY. Registered Sept. 22, 1953. The Dayton Rubber Company, Dayton, Ohio. Rubber Vehicle Tires. Class 35. Corrected as follows: The mark should appear as shown below instead of as in the registration—

Town and Country

580,262. TOWN AND COUNTRY. Registered Sept. 22, 1953. The Firestone Tire & Rubber Company, Akron, Ohio. Vehicle Tires. Class 35. Corrected as follows: The mark should appear as shown below instead of as in the registration—

TOWN AND COUNTRY

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(e), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

115,368. "SUNMAID" AND DESIGN. Registered Feb. 6, 1917. Renewed Feb. 6, 1937. Miller-Elmer Manufacturing Co., Ltd., New Orleans, La. Candy. Class 46. New certificate under section 7(c) issued Dec. 8, 1953, to Sun-Maid Raisin Growers of California, Fresno, Calif., a California cooperative association.

148,739. "RED BAND SHINGLES" AND DESIGN. Registered Nov. 22, 1921. Renewed Nov. 22, 1941. Shull Lumber & Shingle Co., Seattle, Wash. Shingles. Class 12. New certificate under section 7(c) issued Dec. 8, 1953, to MacMillan & Bloedel Limited, Vancouver, Province of British Columbia, Canada.

237,082. FIBRO. Registered Jan. 3, 1928. Renewed Jan. 3, 1948. Courtaulds, Limited, London, England. Cellulose Filaments, Etc. Class 43. New certificate under section 7(c) issued Dec. 8, 1953, to Courtaulds, Inc., New York, N. Y., a corporation of Delaware.

281,184. COURTAULDS. Registered Mar. 10, 1931. Renewed Mar. 10, 1951. Courtaulds, Limited, London, England. Yarns of Cellulose. Class 43. New certificate under section 7(c) issued Dec. 8, 1953, to Courtaulds, Inc., New York, N. Y., a corporation of Delaware.

412,886. QUEEN CHARLOTTE. Registered Mar. 27, 1945. Wood & Pohoryles, New York, N. Y. Canned Prepared Minced Razor Clams and Crab Meat. Class 46. New certificate under section 7(c) issued Dec. 8, 1953, to Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, Province of British Columbia, Canada, a company incorporated under the laws of the Province of British Columbia.

546,597. NATIONAL PARENT-TEACHER. Registered Aug. 14, 1951. National Parent-Teacher, Incorporated, Chicago, Ill. Periodical Publications. Class 38. New certificate under section 7(c) issued Dec. 8, 1953, to The National Parent-Teacher, Chicago, Ill., an Illinois not for profit corporation.

571,625. COURTAULDS. Registered Mar. 10, 1953. Courtaulds, Limited, London, England. Raw Fibrous Textile Materials, Etc. Class 1. New certificate under section 7(c) issued Dec. 8, 1953, to Courtaulds, Inc., New York, N. Y., a corporation of Delaware.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 93,995. Registered Oct. 28, 1913. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

HOUGHTON'S

For Carbonizing Compounds; Disinfectants; Compounds for Preventing Oxidation; and Soluble Tallow Compound. Claims use since 1870.

CLASS 15

OILS AND GREASES

Reg. No. 94,638. Registered Dec. 23, 1913. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

HOUGHTON'S

For Lubricating Oils; Lubricating Greases, Tempering Oils; Metal Cutting Oils; and Wood Oils. Claims use since 1870.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 332,834. Registered Feb. 25, 1936. Tablerock Laboratories, Inc., Greenville, S. C., a corporation of South Carolina. Republished by registrant.

BISMUTH VIOLET

TABLE ROCK LABORATORIES, INC

The words "Bismuth Violet" are disclaimed apart from the mark as shown.

For Solution and an Ointment for the Prevention and Treatment of Infected Wounds.

Claims use since June 1928.

CLASS 19

VEHICLES

Reg. No. 434,953. Registered Dec. 9, 1947. The Flxible Company, Loudonville, Ohio, a corporation of Ohio. Republished by registrant.

PANORAMIC

For Vehicle Windshields.

Claims use since Feb. 1, 1946.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 407,004. Registered May 16, 1944. Nemco Electric Company, Seattle, Wash., a corporation of Washington. Republished by registrant.

NEMCO

For Junction Boxes, Cabinets for Electrical Equipment, Power, Control and Lighting Panels and Switches, and Electric and Lighting Fittings and Fixtures, All for Use in Building and Marine Installations.

Claims use since on or about May 1, 1919.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 94,719. Registered Dec. 30, 1913. Henry Disston & Sons, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

"For Beauty, Finish and Utility, this Saw cannot be Excelled."
Henry Disston

For Saws.

Claims use since 1874.

Reg. No. 306,242. Registered Sept. 12, 1933. Nicholson File Company, Providence, R. I., a corporation of Rhode Island. Republished by registrant.



The drawing is lined for gray. The representation of a box or label and the words "Trade Mark," "Providence, R. I.," "Made in U. S. A.," "Patent Increment Cut," and "Warranted and Made From Best File Steel" are disclaimed apart from the mark as shown.

For Files and Rasps.

Claims use since January 1919.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 91,282. Registered Apr. 22, 1913. Western Clock Co., Peru, Ill. Republished by General Time Corporation, La Salle, Ill., a corporation of Delaware.

TOM THUMB

For Clocks and Watches.

Claims use since Nov. 14, 1912.

CLASS 37

PAPER AND STATIONERY

Reg. No. 137,485. Registered Nov. 23, 1920. Strathmore Paper Company, Mittineague, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant, present address West Springfield, Mass.

BAY PATH

For Wedding, Ledger, Photomount, Book, Cover, and Writing Papers, Bond Papers for Both Writing and Printing Purposes, Bristol Board, Paper and Cardboard for Picture and Photograph Mats, Stationery Paper for Correspondence, and Cardboard.

Claims use since May 5, 1914.

Reg. No. 302,371. Registered Apr. 18, 1933. Pacific Manifolding Book Company, Emeryville, Calif. Republished by Moore Business Forms, Inc., Niagara Falls, N. Y., a corporation of Delaware.

SPEEDICOPIES

For Paper and Stationery, Particularly Units Consisting of Assembled Sheets of Paper With or Without Carbon Paper.

Claims use since Aug. 26, 1932.

Reg. No. 314,091. Registered June 19, 1934. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Chesterlyn

For Flat Printing and Writing Paper in Cases, Cartons, and Packages.

Claims use since Nov. 8, 1933.

Reg. No. 318,611. Registered Oct. 30, 1934. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Goldflake

For Writing and Printing Paper.

Claims use since about Mar. 1, 1933.

Reg. No. 321,207. Registered Jan. 22, 1935. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Replica

For Writing and Printing Paper.

Claims use since Aug. 5, 1934.

Reg. No. 327,883. Registered Sept. 10, 1935. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Strathopaque

For Writing and Printing Paper.

Claims use since Nov. 30, 1934.

Reg. No. 340,198. Registered Nov. 3, 1936. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Endowment

For Writing and Printing Paper.

Claims use since May 18, 1915.

Reg. No. 345,770. Registered May 4, 1937. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Courier

For Writing and Printing Paper.

Claims use since about December 1929.

Reg. No. 346,352. Registered May 25, 1937. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

STRATHMORE
Double Deckle

The words "Double Deckle" are disclaimed apart from the mark as shown.

For Writing and Printing Paper.

Claims use since Sept. 1, 1936.

Reg. No. 357,607. Registered June 7, 1938. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Fiesta

For Writing and Printing Paper.

Claims use since Jan. 21, 1938.

Reg. No. 370,174. Registered Aug. 22, 1939. Friedrich Schafer, St. Gallen, Switzerland. Republished by Kunreuther & Merfeld, New York, N. Y., a partnership.

TEWEKA

For Clips Used for Fastening Wearing Apparel.

Claims use since July 18, 1933.

Reg. No. 389,247. Registered July 29, 1941. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Pastelle

For Writing and Printing Paper.

Claims use since Dec. 31, 1940.

Reg. No. 403,152. Registered Sept. 7, 1943. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Paper is Part of the Picture

The word "Paper" is disclaimed apart from the mark as shown.

For Writing and Printing Paper.

Claims use since September 1921.

Reg. No. 421,446. Registered June 4, 1946. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Strathlucent

For Writing and Printing Paper.

Claims use since November 1931.

CLASS 39

CLOTHING

Reg. No. 221,126. Registered Nov. 23, 1926. L. Greif & Bro., Inc., Baltimore, Md., a corporation of Maryland. Republished by registrant.



The word "Blue" is disclaimed apart from the mark as shown.

For Coats, Vests, Trousers, and Overcoats for Men, Youths, and Boys.

Claims use since Feb. 1, 1926.

Reg. No. 304,588. Registered July 11, 1933. I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York. Republished by registrant.

Braform

For Ladies' Undergarments—i. e., Brassières With and Without Dress Shields.

Claims use since Feb. 20, 1933.

Reg. No. 348,507. Registered July 27, 1937. The Moran Shoe Company, Inc., Carlyle, Ill. Republished by Moran Shoe Company, Carlyle, Ill., a corporation of Illinois.

FATSO

For Shoes Made of Leather and Fabric.

Claims use since Feb. 10, 1937.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 334,635. Registered May 12, 1936. Maurice J. White, doing business as American Club Beverages, Rochester, N. Y. Republished by registrant.

TOMIX

For Nonalcoholic Maltless Beverages Sold as Soft Drinks and for Use as Mixers.

Claims use since the first week in June 1935.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 342,519. Registered Jan. 19, 1937. Nathan Rosenblum & Company, Sharon, Pa. Republished by Golden Dawn Foods, Sharon, Pa., a partnership.

Golden Dawn

For Canned Fruits, Canned Vegetables, Coffee, Salt, Cereal Breakfast Food, Salad Dressing, and Canned Evaporated Milk.

Claims use since August 1935.

Reg. No. 383,792. Registered Dec. 24, 1940. The Maltex Company, Inc., Burlington, Vt. Republished by Maltex Company, Burlington, Vt., a partnership.

MAYPO

For Breakfast Cereal.

Claims use since June 25, 1940.

Reg. No. 439,579. Registered July 6, 1948. T. Kong Lee, San Francisco, Calif. Republished by registrant.

CHIN CH'U

新味精金

The Chinese characters and words "Chin Ch'u" may be translated as "the gold kitchen."

For Food Seasoning Powder, Composed of Mono-Sodium Glutamate, Artificial Flavor Derived From Vegetable Protein, Sodium Chloride, and Sugar.

Claims use since May 1, 1946.

PLANT PATENTS

GRANTED DECEMBER 8, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,232
ROSE PLANT
William E. Pinchbeck, Guilford, Conn., assignor to William Pinchbeck, Inc., Guilford, Conn.
Application October 31, 1952, Serial No. 318,134
1 Claim. (Cl. 47—61)

The new and distinct variety of polyantha rose plant, substantially as herein shown and described, characterized particularly by its prolific and continuous blooming habit; its freedom of breaking to produce abundant bushy growth; its small-leafed foliage; its short bud; and its pink flower of loose, flat-topped form.

PATENTS

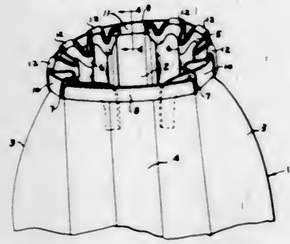
GRANTED DECEMBER 8, 1953

GENERAL AND MECHANICAL

ERRATUM

For Class 1—39 see:
Patent No. 2,661,999

2,661,468
MATERNITY SKIRT
M. Genevieve Doll, Detroit, Mich.
Application May 18, 1950, Serial No. 162,785
2 Claims. (Cl. 2—221)



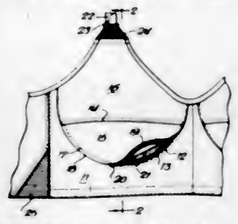
1 A skirt comprising a body of pleatable material providing front, back and side portions and a waist, said body being slit through the waist between the back portion and the side portions, a belt fixed to said front portion at the waist, loops on the waist at the side portions, said belt passing through said loops and having end portions adapted to pass through the slits and to tie inside said back portion, fastening elements on said back portion at said slits, and complementary fastening elements on said belt.

2,661,469
GIRDLE
Paula Blatt, Berea, Ohio
Application July 28, 1951, Serial No. 239,071
6 Claims. (Cl. 2—41)



1. A girdle comprising a permanently and completely closed and continuous band form of structure having front and rear component band sections of different height, the section of greater height possessing elasticity in only the vertical direction and the section of less height possessing elasticity in only the horizontal direction, and duplicate side sections between said front and rear sections, said side sections possessing elasticity in an angular direction from the top front portion towards the rear lower portion of the same, and the upper and lower edges of said band form of structure being of uniform character throughout and being free of appurtenances so as to permit the same to be worn in reversed vertical position.

2,661,470
BREAST PAD HOLDING GARMENT
Emily N. Day, Portland, Oreg.
Application April 20, 1951, Serial No. 222,076
4 Claims. (Cl. 2—42)

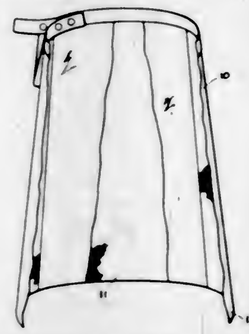


1. A breast-encircling garment comprising an encircling member having a back panel adapted to lie throughout the region of a breast flat against the bust of the wearer, an outer cover portion secured to the front of said back panel along its upper and side edges only, said cover portion being of greater surface area than the portion of the back panel to which it is secured whereby the cover portion may be filled out by a breast pad, the lower edge of said cover portion having a series of slide fastener elements secured thereto from side to side of the breast area, a cooperating series of slide fastener elements secured to said back panel, a fastener slide engaging both series of elements for engaging or separating the same, and a narrow flap secured to said garment in position to overlie said elements when secured together and conceal the same from view, said elements extending beneath the natural breast area from side to side thereof to provide an opening of sufficient width to permit the insertion of a breast pad.

2,661,471
PROTECTIVE ATTACHMENT FOR WOMEN'S UNDERGARMENT
Elizabeth M. Neumayer, Astoria, N. Y.
Application March 27, 1950, Serial No. 152,161
4 Claims. (Cl. 2—46)

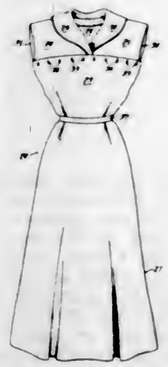
1. In an undergarment formed of a front and rear section, a lining mounted inside the rear section, means attaching the side edges of said lining to the rear section, a plurality of snap fastener elements attached to the upper edge of the rear section of the undergarment, a plurality of mating snap fastener elements attached to the upper edge of the lining, in substantial alignment with the rear section upper edge fastener elements, said snap fasteners removably attaching the upper edge of the lining to the rear section, a water-repellent insert interposed between the lining and the undergarment rear section, the upper edge of said insert having a plurality of openings therein in substantial alignment with the adjacent rear section upper edge snap

fastener elements, a flat ring-shaped reinforcement attached to the liner around each of said openings, the projecting end of the fastener elements attached to the rear section upper edge fitting through the liner openings and the reinforcements surrounding them to clamp the insert between the fastener elements connecting the upper edge of the lining to the garment rear section,



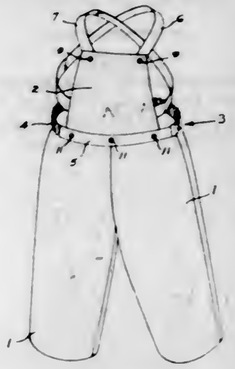
a plurality of snap fastener elements attached to the bottom edge of the lining, a plurality of mating snap fastener elements attached to the bottom edge of the insert in substantial alignment with the lining bottom edge snap fastener elements, said snap fastener elements removably attaching the bottom edge of the insert to the lining.

2,661,472
GARMENT CONSTRUCTION
Gerald F. Miller, Dallas, Tex.
Application January 5, 1951, Serial No. 204,521
4 Claims. (Cl. 2—74)



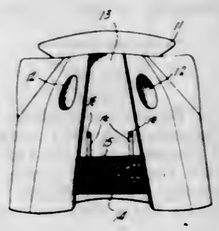
1. In a dress: a waist comprising a back panel and a front panel, said front and back panels being of unequal lengths and having lower portions secured together at the sides; a shoulder yoke having a neck opening intermediate its ends and having one of its ends fixed to the upper portion of said back panel, said yoke forming the upper portion of said front panel, a collar embracing said neck opening, said upper portions of said front and back panels and said yoke having their adjacent outer side edges unsecured to one another to provide arm openings at the sides on opposite sides of said collar, and means for detachably securing the other end of said shoulder yoke to the upper portion of said front panel below said collar.

2,661,473
CHILD'S OVERALL GARMENT
Maebyn L. Miles, Kent, Wash., assignor to Nancy Garment Company, Kent, Wash., a copartnership
Application January 8, 1951, Serial No. 204,880
2 Claims. (Cl. 2—80)



1. A child's garment, comprising a trouser having a waist band encircling the top thereof and having a front and a back portion, said waist band having an inner face and an outer face and carrying an elastic section extending about the back portion of the garment only, said waist band constituting the only waist encircling portion of the garment, a bib substantially coextensive in width with the front portion only of said trouser, a pair of elongated shoulder straps secured at one end to opposed side margins of said bib and at the other end to the opposite sides of the top margins thereof, and separable fastening means for detachably securing said bib to said waist band to define an overall, said fastening means including a plurality of snap connections having the complementary halves thereof secured to the lower margin of said bib and to the inner front face of said waist band, respectively, to facilitate detachment of said trouser, the elastic section in said waist band and said fastening means constituting the sole securing elements for retaining the trouser upon a child's body.

2,661,474
SEAT PAD FOR COATS
Samuel H. Tate, Lancaster, Pa.
Application April 3, 1951, Serial No. 218,990
1 Claim. (Cl. 2—94)



In a coat, a back section, a flexible seat pad extending transversely across the lower portion of said back section, a sheepskin cushioning layer on the inwardly facing surface of said seat pad,

and a plurality of extensible elastic strap members connected to the top edge of said pad and detachably secured to the inner side of said back section at elevated points, said strap members being normally of a length to support the pad in concealed suspended position inside said back section when the wearer of the coat is in a standing position, said seat pad being movable downwardly when its use is required.

2,661,475
MATERNITY GARMENT
Pearl Auslender, Chicago, Ill.
Application January 28, 1948, Serial No. 4,854
1 Claim. (Cl. 2—105)



A maternity tunic having a back and a front, said front comprising a T-section extending from top to bottom of said tunic and side sections stitched to the lower edges of the arms of said T-section and coextensive with and flanking and stitched to the stem of said T-section; a seam at each side of said tunic and joining said back to the outer edge of each side section and the end edge of the adjacent T-section arm, said arms and back defining armholes above said seams, the portions of said arms and side sections below the armholes being longitudinally folded to form pleats, one at each side, extending from the armholes to the bottom of the tunic, each pleat comprising an inner fold and an outer fold, the distance between the folds of each pleat being gradually increased from the armholes to the bottom of the tunic, each pleat being open throughout its length and at the bottom thereof but closed at the top, releasable means secured to the mutually facing portions of each pleat for substantially closing the open side of said pleat adjacent the top thereof, said means, when in use, being shielded from view by said pleat, and, whether in use or not, being shielded from view by the arms of the wearer, and tie-backs connected to intermediate portions of the outer folds, said outer folds being disposed at the sides of said tunic, whereby said pleats may be opened to the extent required to accommodate the tunic to the wearer, and, when said tie-backs are tied, said tunic presents a trim appearance at all times.

2,661,476
GLOVE
Ernest L. Bobbitt, Wheeling, W. Va.
Application November 30, 1951, Serial No. 259,211
8 Claims. (Cl. 2—169)

1. A reversible two-thumb glove comprising: a first blank forming the forefinger, middle finger, the inner sides of both thumbs, and portions of both palms; second and third identical blanks each secured to opposite edges of said first blank and forming the ring finger and portions of both palms; a fourth blank having opposite edges thereof secured to said third and fourth blanks and forming the little finger and the balance of both palms; and fifth and sixth identical blanks



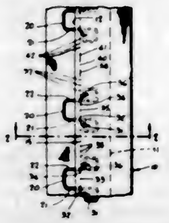
secured to said first blank and forming the outer sides and bases of the two thumbs.

2,661,477
MATERNITY SKIRT
Grace R. Gilbertson, Rochester, Wis.
Application November 17, 1950, Serial No. 196,190
2 Claims. (Cl. 2—221)



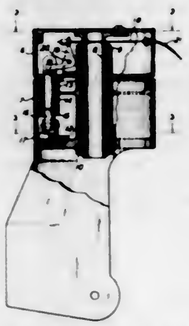
1. A maternity garment fitted for wear prior, during and after pregnancy and readily adjustable to conform to the changes in contour of the abdomen and body of the wearer during pregnancy, comprising a skirt having a front panel the upper edge of which extends above the normal waist line of the garment prior to enlargement of the abdomen, an inverted box pleat of substantial width at the front and centrally of the front panel of the skirt extending for the full length thereof, horizontal stitching extending completely across the box pleat directly below the abdominal covering portion and vertical stitching extending through the opposed folds of said pleat from said horizontal stitching to a point spaced a substantial distance above the hemline whereby the box pleat is open above the horizontal stitching for lateral adjustment to conform to body lines thereat and open below the end of the vertical stitching to provide an open kick-pleat to permit ease in walking, and adjustable means at the front of the skirt for spanning the upper portion of the open box pleat to conform the skirt to the changing contour of and allow for each stage of body growth during pregnancy.

2,661,478
FASTENER STRIP
Louis M. Rabinowitz, Brooklyn, N. Y.
Application January 3, 1952, Serial No. 264,789
12 Claims. (Cl. 2—265)



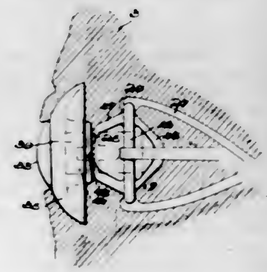
1. A continuous fastener strip comprising a fabric strip having overlapping longitudinally extending portions, fasteners inserted between said portions at spaced intervals longitudinally of the strips and arranged in groups each comprising at least a pair of fasteners, and a longitudinal stitched seam uniting said strip portions and securing said fasteners in position, said seam between fastener groups, comprising a series of stitches including a "cut" marking stitch substantially at the midpoint between adjacent fastener groups, and the marking stitch being substantially different in length from the stitches of such series adjacent either side thereof to provide a well-defined indication of the "cut" point for later severing of the strip into shorter sections each including one group of fasteners.

2,661,479
LOCKING MEANS FOR PIVOTAL JOINTS
Samuel Weir Alderson, Westport, Conn.
Application April 21, 1952, Serial No. 283,458
1 Claim. (Cl. 3—12)



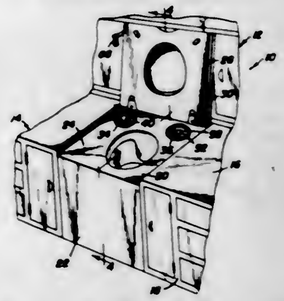
In a prosthetic device, a shoulder cap having a surface overlaying the pectoral muscle, an articulated arm pivoted thereto, said arm including an upper arm section divided into two elements joined by a swivel joint whereby the lower of said elements may be rotated about the longitudinal axis of said arm, a lock for securing said elements against relative movement consisting of an arcuate rack fixed to the lower of said elements and a cooperating latch mounted on the upper of said elements, said latch comprising a longitudinally movable pin having teeth on one end thereof mounted in cooperative relationship with the teeth of said rack, a casing for guiding said pin, a spring for normally forcing said pin into engagement with said rack, a bell crank pivoted on said upper element of said upper arm section having one arm thereof pivoted to said latch pin, a cable sheath anchored at one end to said upper element and at the other end to said cap at the location of the pectoral muscle, said sheath depending in a loose loop between said anchored ends whereby said arm may be moved through a wide range simulating all natural movements of an arm, a muscular control device secured to said shoulder cap and including said cable sheath anchorage and a cable threaded through said sheath fixed at one end to the other arm of said bell crank and at the other end thereof to said muscular control device.

2,661,480
ARTIFICIAL EYE AND CONTROLLING APPARATUS
Emanuel P. Rosen, Newark, and Edwin H. Erickson, Teaneck, N. J.
Application October 8, 1947, Serial No. 778,704
19 Claims. (Cl. 3—13)



16. A prosthesis, including in combination, an implant member adapted to be inserted in the inner portion of the socket remaining after removal of the eye, said implant member adapted to be operatively connected with the extra ocular muscles for inducing movements to the implant member responsive to tensions of the extra ocular muscles, and a prosthetic member adapted to be disposed in the eye socket anteriorly of said implant member, one of said members including means emitting magnetic forces and the other of said members including magnetizable means within the field of the magnetic forces.

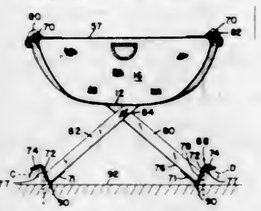
2,661,481
TOILET CLOSET
Elsie Goodfield, Dover, N. J.
Application December 1, 1949, Serial No. 130,386
2 Claims. (Cl. 4—135)



1. A toilet closet comprising a cabinet having a top, a chamber in said cabinet, a cover for said chamber forming a continuation of the top of said cabinet, a toilet bowl mounted in said cham-

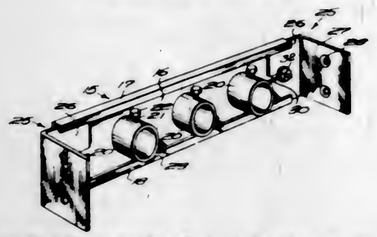
ber beneath said cover, said toilet bowl having a pair of vertical recesses therein at opposite sides thereof, a container received in each recess for holding a toilet article, and a seat for said bowl beneath said cover closing said containers.

2,661,482
INFANT'S BATH
Erwin D. Zimov, Cincinnati, Ohio
Application November 14, 1951, Serial No. 256,172
1 Claim. (Cl. 4—177)



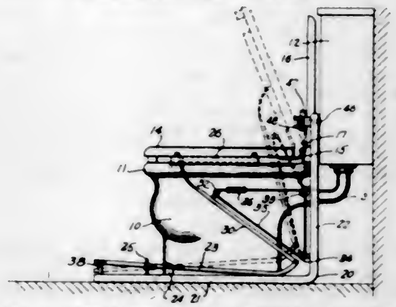
An adjustable width infant's bath fabricated from a sheet of flexible waterproof material including a bottom and duplicate side and end portions, an open-ended pocket provided along the outer edge of each side portion, a reinforcing strip extending along the outer edge of each end portion, a series of side-by-side loops provided at opposite ends of said reinforcing strips wherein the axes of said loops are substantially parallel with one another and with the axes of said open-ended pockets, a pair of rods housed one within each pocket and with their opposite ends projecting beyond the opposite ends of their respective pockets, the opposite ends of said rods dimensioned to be received in and project through selected axially aligned loops in opposite end portions for providing an inturned strip of a width equal to the length of a loop, two sets of legs wherein each set comprises a pair of legs pivotally interconnected intermediate their length, the upper ends of the legs of a set engaging the ends of the rods beyond the loops at opposite ends of the bath, said strips spanning said rods for determining the spacing between the upper ends of the legs of a set and for simultaneously maintaining the free upper edges of the end portions in the plane of the upper edges of the side portions.

2,661,483
BRACKET FOR VALVE FIXTURES
Louis Tortorice, Bristol, R. I.
Application June 21, 1951, Serial No. 232,783
1 Claim. (Cl. 4—191)



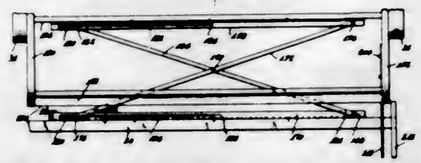
A bracket for a valve fixture having a plurality of equally spaced tubular parts extending parallel to each other in a straight line, comprising an elongated body having a guide groove at each longitudinal edge thereof opening towards each other, said body having a plurality of circular openings through which said tubular members are adapted to project, said openings extending in a straight line substantially midway between the longitudinal edges of said body and spaced from each other a distance substantially equal to the spacing of said tubular members and each being of a size much larger than said tubular members crosswise thereof and surrounded by a collar having a threaded member extending through the wall thereof for engaging and clamping the tubular member projecting therethrough against the wall of said collar, and an L-shape wing part at each end portion of said body having one leg thereof slidably received in said guide grooves and each provided with an open ended slot, a bolt in said body in said slot independently adjustably securing said wing part to said body the other leg thereof having openings therethrough for receiving fastening means for securing said bracket in place.

2,661,484
FOOT OPERATED TOILET SEAT LIFTER
Jack Jung, Vancouver, British Columbia, Canada
Application January 23, 1953, Serial No. 332,845
3 Claims. (Cl. 4—251)



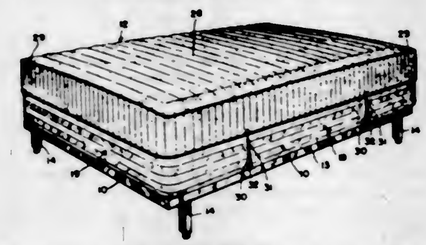
1. In combination with a toilet assembly including a bowl, a tank disposed at the rear of the bowl and extending above the top of the bowl, and a seat and seat cover hinged to said bowl at the rear of the top of the bowl for swinging movement between the top of the bowl and the front of the tank, a seat raising attachment comprising a support including a base disposed adjacent the bottom of the bowl and a standard extending upwardly from one end of said base and disposed adjacent the front of said tank, a lever disposed above said base and extending longitudinally thereof, means extending upwardly from said base and providing a fulcrum supporting said lever intermediate the length of the latter, a guideway mounted on the under side of said seat and extending longitudinally thereof, slide means engaging and movable longitudinally of said guideway, a link pivotally connected at one end to the end of said lever adjacent said standard and connected at its other end to said slide means, a sheave on said link intermediate the length thereof, sheaves on said standard at spaced apart locations therealong, a strand extending around said sheaves and having its ends connected together to support said link on said standard and enable said link to raise said seat in response to downward foot pressure on the end of said lever remote from said standard, and a latch mounted on said base near the end of the latter remote from said standard and engaging the corresponding end of said lever when the latter is forced downwardly by foot pressure thereon to hold said seat in raised position, said latch being released from said lever by foot pressure on said latch to free said seat to descend by gravity to the top of said bowl.

2,661,485
SOFA BED
Meyer Gursky, New York, N. Y., assignor to Automatic Bedding Corporation, Brooklyn, N. Y., a corporation of New York
Application April 24, 1952, Serial No. 284,058
5 Claims. (Cl. 5—13)



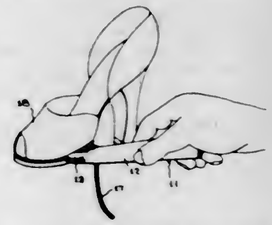
1. Sofa bed construction comprising a frame defining a well, foldable mattress support means compactly retractable into said well, and extensible therefrom into horizontal position of the upper portion thereof to support a mattress thereon, said frame including a back lower wall which is stationary, back support means carried by said back lower wall and constructed and arranged for pivoting between lower and upper positions, and back means carried by said back support means for movement with an upper portion thereof, whereby, upon actuation of said back support means, said back means is moved vertically upward to upper position, at which time space exists therebelow for the feet of the occupant; said back support means comprising a pair of first and second mutually intersecting arms pinned together intermediate their ends, one end of said first arm being pinned to said back lower wall and the other end of which is slidably engaging said back means, and wherein one end of said second arm is pinned to said back means and the other end of which is slidably engaged to said back lower wall, and resilient biasing means engaging said intersecting arms, and acting thereon to bias the same so that said back means tends to move toward upper position.

2,661,486
COMBINATION BOX SPRING AND MATTRESS
Earl E. Roher, Hutchinson, Kans.
Application March 28, 1950, Serial No. 152,430
2 Claims. (Cl. 5—351)



1. As an article of manufacture, a combination bedding unit comprising a box spring section, a mattress section and a coacting pad covering; the box spring section comprising a rigid bottom frame with a multiplicity of helical coil springs secured thereto and extending upwardly therefrom, with a horizontal insulation member comprising a sisal pad secured to the upper ends of said coil springs; the marginal edges of said sisal pad being vertically yieldable with respect to the bottom frame and joined thereto solely by flexible fabric ticking extending vertically between said pad and said frame and closing the sides of the box spring unit; the mattress unit comprising a multiplicity of helical coil springs secured to the upper side of the sisal pad and extending upwardly therefrom, with a horizontal top pad of the mattress secured to and supported on the upper ends of said springs; said top pad having a marginal skirt extending downwardly around the outer edge of the mattress portion and joined to the upper edge of the aforementioned fabric ticking, whereby said pad and ticking coact to completely close the marginal edges of the bedding unit and present an attractive and unitary appearance; a detachable pad covering comprising a horizontal portion coextensive with the mattress pad and having side portions extending downwardly alongside the skirt portion of the mattress pad, said side portions terminating at a point between the mattress and box spring sections and enclosing the mattress snugly, whereby sheets and bed covers may be held against displacement by tucking them under the edges of said side portions and spaced elastic means connecting the side portions of said detachable pad to said bottom frame.

2,661,487
WELT BRACE-LAYING TOOL
Sylvanous B. Hicks and Boyd F. Hicks, Stockton, Calif.
Application June 8, 1951, Serial No. 230,668
2 Claims. (Cl. 12—103)

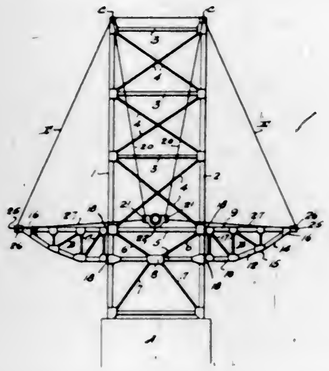


1. A tool for inserting welt bracing on a shoe comprising an elongated forwardly tapering body member serving as a handle, a relatively narrow tip at the end of said body member, and spaced marginal ribs on said tip extending completely around the tip and defining a forwardly facing groove therebetween, said tip being formed with an opening therethrough substantially connecting the ends of said groove, whereby welt bracing may be passed through said opening and be supported in said groove in a substantially looped condition while being applied to a shoe.

2,661,488
TRUSS BRACING SYSTEM FOR VERTICAL STABILIZATION OF PIPE LINE SUSPENSION BRIDGES
Wilder Kenan, San Antonio, Tex.
Application July 27, 1951, Serial No. 238,859
3 Claims. (Cl. 14—19)

1. A bridge structure including spaced towers, cantilever members mounted upon the towers and extending laterally therefrom, pipe cradles arranged between the towers, spaced main cables extending over the towers and anchored at points spaced outwardly therefrom, suspenders connecting the main cables and pipe cradles, wind cables connecting the end portions of the cantilever members at each side of the towers and being anchored at their ends at points spaced outwardly from the towers, said wind cables being upwardly inclined from the ends of the cantilevers to the

central portion of the span, guy suspenders extending between said cradles and wind cables at spaced points therealong, web members oppositely



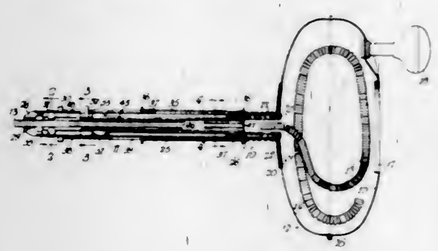
inclined in zigzag fashion extending between the main cables and said wind cables, said wind cables, guy suspenders and diagonal web members each being tensioned flexible members.

2,661,489

PIPE CLEANING APPARATUS

Herbert H. Rudolph, Chicago, and John V. O'Brien, Park Ridge, Ill., assignors to Spartan Tool Company, Chicago, Ill., a corporation of Illinois

Application April 19, 1949, Serial No. 88,444
13 Claims. (Cl. 15—104.3)



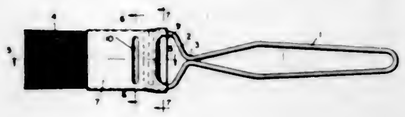
1. Pipe cleaning apparatus embodying therein inner and outer tubular members arranged for relatively longitudinal telescopic movement between retracted and extended positions approximating the length of feed for a snake extending longitudinally of said inner tubular member, for each relative movement of said members toward one of said positions, a hand holdable member in which the outer tubular member is journalled for relative rotation, coacting parts on said hand holdable member and on said outer tubular member respectively preventing relative longitudinal movement therebetween, and means operative automatically to grip the snake to the outer tubular member for a feeding movement therewith in a relative movement of said members toward said one of said positions and automatically to release said snake from said outer member for a movement of the latter independently of the snake in a relative movement of said member toward the other of said positions.

2,661,490

BRUSH AND MECHANISM FOR MAKING SAME

John B. Benyak, Cleveland, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application April 3, 1947, Serial No. 739,043
7 Claims. (Cl. 15—143)



6. A brush comprising a brush material retaining element forming a substantially closed loop, a layer of brush material doubled about said element through said loop but only partially filling said loop, and a sleeve enclosing said loop in the region of doubling of said brush material with the end portions of said brush material protruding therefrom, said sleeve being compressed to bring opposite sides thereof into contact within the confines of said loop closely to engage said doubled brush material with the compressed region extending sufficiently laterally within said loop to engage the inner periphery of said loop and prevent shifting relative thereto.

2,661,491

BRUSH

Ruben O. Peterson, University Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application June 26, 1947, Serial No. 757,119
4 Claims. (Cl. 15—143)



1. A brush comprising a single short, substantially straight length of brush strip having a generally flat layer of brush material secured in a channel-form back; a separate outer channel-form holder member closely enclosing said back, including the ends thereof, and clamping said back therein with such brush material protruding therefrom; and a separate looped wire handle member extending generally axially of such brush material with the two ends of such wire turned outwardly and inserted in said holder member, portions of said holder member being inwardly deformed intermediate said out-turned wire ends to secure such ends in rigid engagement.

2,661,492

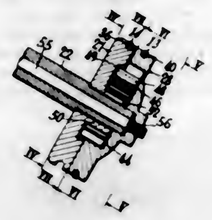
CABLE TENSIONING DEVICE FOR A WINDSHIELD CLEANER INSTALLATION

John R. Oishei, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.

Application February 1, 1951, Serial No. 208,891
12 Claims. (Cl. 15—253)

1. A windshield cleaner comprising a wiper, a wiper motor, a tubular rotatable shaft, means mounting said wiper on said rotatable shaft, a pair of coaxial drums, one being fixed to the shaft and the other rotatable with respect thereto, a drive cable means extending between said wiper motor and each drum, means biasing the two

drums for relative rotation, and means securing said two drums against relative rotation, said



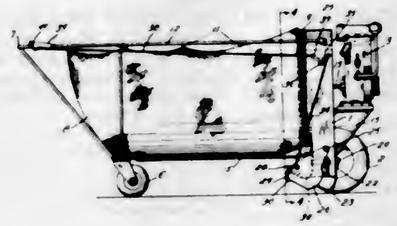
last-named means including a releasable locking element extending through said rotatable shaft.

2,661,493

VACUUM TYPE LEAF SWEEPER

Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application January 7, 1949, Serial No. 69,735
15 Claims. (Cl. 15—350)



1. In a vacuum type leaf sweeper, a portable frame adapted to run along a ground surface, a fan comprising a housing carried by said frame and having a transverse suction nozzle arranged with its mouth near the ground whereby leaves collected on the ground are drawn into said nozzle, and a rake mounted on said frame exteriorly of said nozzle and having a transverse rigid row of rake teeth normally disposed rearwardly of and in adjacency to said nozzle with said teeth normally disposed near the ground surface for collecting leaves in adjacency to said nozzle-mouth as the sweeper is advanced over the ground.

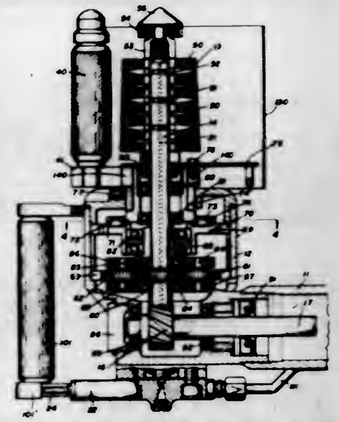
2,661,494

DEVICE FOR CLEANING PIPE THREADS

Robert R. Crookston and Stanley C. Brown, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application September 17, 1951, Serial No. 246,892
14 Claims. (Cl. 15—387)

1. A device for cleaning pipe threads which comprises, in combination, an elongated body member, power means arranged in said body member, means for transmitting energy to said power means, a housing arranged on said body member adjacent one end of said body member, a scouring member for cleaning a peripheral surface rotatably mounted on said housing, power transmission means arranged in said housing operatively connecting said power means and said scouring means for rotating said scouring means, guide means revolvably mounted on said housing for revolution circumferentially of the periphery of said scouring means, and means arranged in said housing operatively connected to said power transmission means for revolving



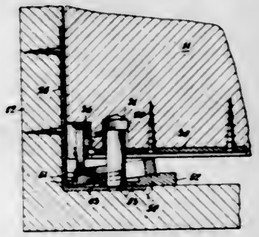
said guide means circumferentially of said scouring means.

2,661,495

DOUBLE-ACTING GRAVITY HINGE

Kornelius Kalleberg, Brooklyn, N. Y., assignor to American Gravity Door Closer, Inc., Massapequa Park, N. Y., a corporation of New York

Application April 10, 1952, Serial No. 281,619
7 Claims. (Cl. 16—154)



1. A double acting gravity type closure hinge for a door having a lower swivel device axially aligned with an upper swivel means, said lower swivel device comprising a swivel joint, curved track means located around said swivel joint and having a depression therein to center the closure in its closed position, anti-friction means cooperating with said track means for supporting the closure and a rotatable cam cooperating with said track means to vary the inclination of the track means.

2,661,496

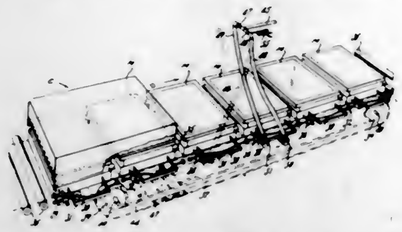
METHOD OF AND APPARATUS FOR SUPPLYING STEAM TO THE INTERIOR OF ADVANCING MOLDS

Lewis W. Lubenow, Nutley, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application July 26, 1952, Serial No. 301,034
13 Claims. (Cl. 18—6)

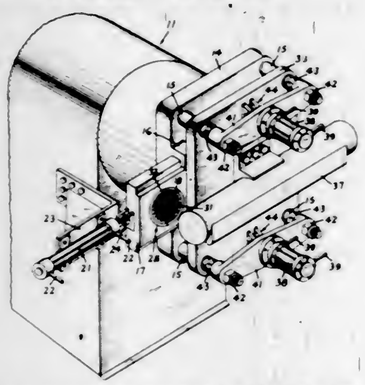
1. The method of curing latex foam simultaneously in a series of advancing molds constructed for the passage of steam through the foam mass in the molds to cure the foam; which comprises advancing a series of molds filled with latex foam along a predetermined path, providing a readily detached steam connection between these molds to travel with them, and providing a

hose leading from a fixed source of steam supply to said steam connection and adapted to be readily shifted from a forward connected point to a



rearward connected point along such connection as the molds advance, to thereby supply steam simultaneously to several of the advancing molds.

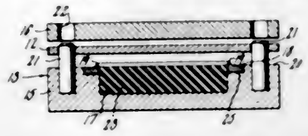
2,661,497
EXTRUSION APPARATUS
John N. Birmingham, Nutley, N. J., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
Application April 3, 1951, Serial No. 218,991
6 Claims. (Cl. 18—12)



1. In an extrusion apparatus for the shaping of thermoplastic material, the combination with an extruder and an extrusion die, of a plate fastened to the output end of the extruder, a second plate operatively connected to the extrusion die positioned parallel to and spaced from said first plate, holding means positioned between said plates for supporting two filter assemblies, means for shifting said holding means between said plates for selectively bringing one of said filter assemblies into the path of the thermoplastic material flowing from the extruder to the extrusion die, and means for releasably urging said plates toward each other for clamping said holding means and preventing the leakage of thermoplastic material therebetween and for moving one of said plates away from the other to free said holding means from the clamping action of said plates.

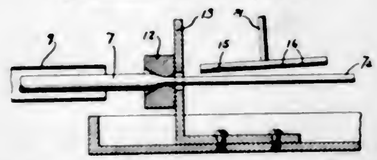
2,661,498
APPARATUS FOR MOLDING
Edward E. Blaurock, Fort Wayne, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application June 1, 1950, Serial No. 165,463
2 Claims. (Cl. 18—36)

1. A metal mold comprising at least two parts having cooperating faces between which a malleable metal part is adapted to be clamped, one of said mold parts having a mold cavity therein for receiving plastic material to be molded into the malleable metal part, locating pins on one mold part adapted to be received by locating recesses in the other mold part and by locating recesses in the malleable metal part when positioned between said mold parts, counter recesses



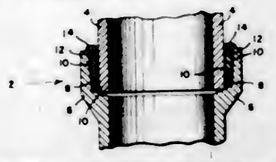
surrounding said pins in said mold part containing said cavity, a ring harder than said mold face located in each of said counter recesses and projecting beyond said face of said mold part, said projecting portion of said ring being adapted to be pressed into the malleable metal part to form a barrier against the flow of plastic from said mold cavity into the locating hole in the malleable metal part.

2,661,499
METHOD FOR SIZING NYLON SHAPES
Ralph E. James, Jr., and Robert B. Koch, Reading, Pa., assignors to The Polymer Corporation, Reading, Pa., a corporation of Pennsylvania
Application July 22, 1950, Serial No. 175,323
6 Claims. (Cl. 18—47.5)



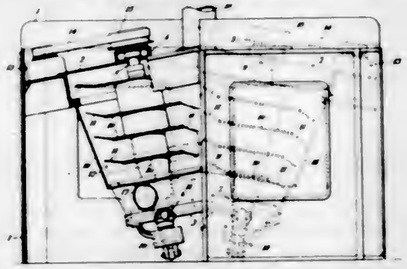
1. A method for making high melting polyamide tubing or rod stock of predetermined cross sectional dimension, which method comprises extruding stock of dimension greater than said predetermined dimension, pulling the extruded stock through a die of smaller minimum diameter than said predetermined dimension but of larger diameter than that of the same stock when completely oriented, preventing substantial orientation of the stock as it leaves the die by chilling the stock immediately upon exit of the stock from the die, and thereafter subjecting the stock to heating to effect increase in diameter thereof to said predetermined dimension.

2,661,500
METHOD FOR MAKING PIPE JOINTS
Raymond B. Seymour, Allentown, and Walter R. Pascoe, Reading, Pa., assignors to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa., a corporation of Pennsylvania
Application March 14, 1951, Serial No. 215,629
5 Claims. (Cl. 18—59)



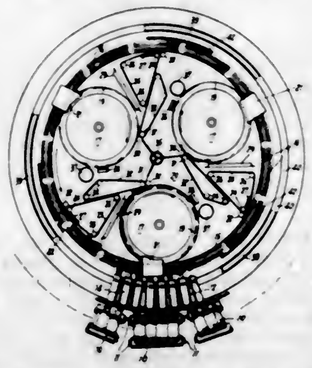
1. The method of forming a joint between a bell and spigot of cast iron pipes which comprises applying a coating comprising phosphoric acid, a chromate, a vinyl resin and an alcohol to the interior of the bell and to the exterior of the spigot; after the applied coating has dried, centering the spigot within the bell and filling the space between the coating on the interior of the bell and the coating on the exterior of the spigot with sulfur cement.

2,661,501
APPARATUS FOR OPENING COTTON AND LIKE FIBROUS MATERIAL
Zoltan Szaloki, Helmshore, Rossendale, England, assignor of one-half to Platt Brothers & Company Limited, Oldham, England
Application June 22, 1950, Serial No. 169,556
5 Claims. (Cl. 19—91)



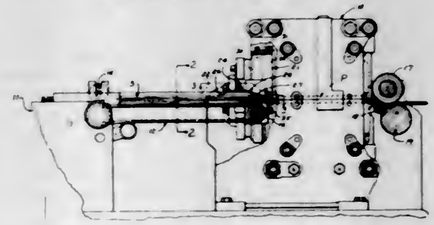
1. Apparatus for opening cotton and the like fibrous material comprising a pair of revolving beaters, a plurality of blades on each beater, a common casing enclosing said beaters, a common grid inside the casing surrounding said beaters, means for introducing material into said grid, said beaters being of frusto-conical form and having their axes inclined to one another, the axial setting of the blades of one beater being relatively staggered in relation to that of the blades of the other beater, said blades extending towards each other without overlapping thereby causing the material to be opened by the alternate impingement upon masses of cohering fibers.

2,661,502
WOOL COMBING MACHINE
Louis P. Miller, North Plainfield, N. J.
Application December 30, 1949, Serial No. 135,871
15 Claims. (Cl. 19—123)



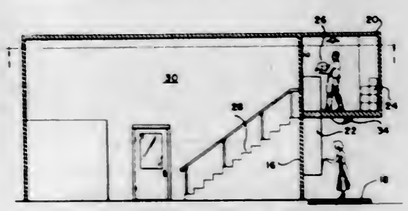
7. In a circular combing machine for textile fibers, the machine having a large outer combing circle and an inner combing circle tangent to the outer circle, the improvement which comprises: means fixedly mounting the outer circle and means for rotating the inner circle in a planetary motion along the inner circumference of the outer circle.

2,661,503
RECTANGULAR CONDENSER FOR PIN DRAFTERS
James R. Longstreet, Maple Heights, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application July 22, 1948, Serial No. 40,134
4 Claims. (Cl. 19—129)



4. Sliver feeding mechanism for a gill box comprising sliver transport means comprising a member having a substantially flat surface for carrying the sliver, one end of said transport member being adapted to be positioned adjacent the drafting pins of the gill box, means comprising a stationary member positioned at said end of the transport member and having at least a portion thereof parallel to the surface of said transport member, and means comprising stationary members disposed adjacent to said first-named stationary member and spaced apart a distance less than the width of the said transport member and having portions thereof substantially perpendicular to the surface of said transport member for confining the edges of the sliver whereby the sliver is formed with a substantially uniform rectangular cross section before entering the gill box.

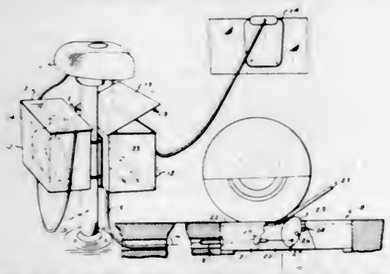
2,661,504
STORE ARRANGEMENT WITH COIN-OPERATED DISPENSING MEANS
Harry A. Toulmin, Jr., Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
Application March 10, 1950, Serial No. 148,993
3 Claims. (Cl. 20—1.6)



1. A store construction comprising a plurality of units for dispensing articles therefrom one at a time, said units being arranged along one side of said store and adjacent a walkway, a store room for storing articles to be dispensed from said units arranged parallel to said units and thereabove, said store room overhanging said units being spaced therefrom a height sufficient to allow customers using said units to walk therebeneath, said unit comprising a portion extending upwardly into said store room and communicat-

ing therewith, an opening in said extended portion for introducing articles into said unit to be dispensed therefrom, means comprising a coin-operated mechanism positioned on each of said units which is operable to deliver an article from said unit upon actuation thereof, said mechanism comprising a reel and cooperating lever, said lever being pivotably mounted between its opposite ends, a pin on the inner end of said lever, a cam slot engaged by said pin, a coin chute arranged to cooperate with the outer end of said lever, said lever being arranged to swing about its pivot upon insertion of a coin in said chute, said reel being adapted to be advanced progressively through 90° intervals of rotation to dispense articles from said unit upon operation of said lever, a single article being dispensed upon each 90° rotation of said reel, a crank handle operatively connected to and operable upon insertion of a coin to permit rotation of said reel from one position through 90° rotation, and spring means on said lever adapted upon release of said crank handle to return to its original position and reset said coin operated mechanism for the next dispensing operation.

2,661,505
SPEAKER PROTECTIVE DEVICE FOR DRIVE-IN THEATERS
Rocco Dilione, Red Bank, N. J.
Application August 16, 1950, Serial No. 179,790
10 Claims. (Cl. 20—1.12)



1. The combination of a speaker, a rigid support having a basket mounted thereon to retain said speaker, said basket provided with a hinged cover and being spaced above the ground so as to be accessible by an occupant of an automobile, a chocking means located on the ground remotely from said support, said chocking means being below ground level and being pivotally supported to be raised above ground level into position to be engaged by a wheel, a steel wire connecting said chocking means and said cover of said basket and being moveable on the elevation of said cover to elevate said chocking means into wheel engaging position.

2,661,506
WINDOW STRUCTURE
Michael J. Tracy, Robertson, Mo.
Application October 30, 1950, Serial No. 192,940
5 Claims. (Cl. 20—42)

1. A window structure comprising a window frame, an upper sash and a lower sash associated with said window frame, said sashes being of the louvre type and being adapted for swinging adjustment to open and closed positions with respect to said window frame, a member supported for sliding movement by said window frame, an arm pivoted at one end thereof to said sliding member and at the opposite end thereof to said lower sash for connecting said sliding member and said lower sash for cooperation, a second arm pivoted at one end thereof to said upper sash and at the opposite end thereof to a fixed part of the window structure for supporting said upper sash for swinging movement, a latch member pivotally supported at an end thereof in a fixed



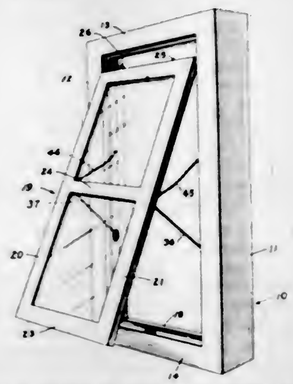
location by said upper sash and movable into and out of latching engagement with respect to a latch-receiving element supported by said slidable member, and cam means fixed to said slidable member for imparting initial movement to said second arm at the beginning of opening movement of said upper sash.

2,661,507
WINDOW CONSTRUCTION
Willard A. South, Minneapolis, Minn.
Application October 20, 1948, Serial No. 55,471
5 Claims. (Cl. 20—53)



1. An awning type window structure comprising a head casing member, a sill spaced therebelow and two spaced side casing members rigidly interconnecting said head and sill, each of said side casing members having a plurality of stile abutting stops fixed thereto and said stops extending in respectively opposed relation toward one another from the respective side casing members, the stops on each side being inclined from the vertical to produce a serrated edge portion, a plurality of window sash each comprising a top rail with a bottom rail disposed in spaced relation therebelow and side stiles rigidly interconnecting said stop and bottom rails, horizontal pivot means pivotally interconnecting at least certain of said sash with the side casing members of the frame to provide for outward swinging movement of the bottom portion of each pivotally mounted sash on its horizontal pivotal axis, the positioning of said sash relative to each other being such that the bottom rail of one sash is positioned in overlapping relation to the adjacent top rail of the sash disposed therebelow when in closed position to form a pair of abutment sealing edges between the outside face of the top rail and the inside face of the bottom rail and produce an overlapping shingle effect between adjacent sash, the inclined stile abutting stops respectively extending toward each other a sufficient distance to overlap at least a substantial portion of the inside stile surfaces of the respective side stiles of the sash to conceal at least a substantial portion of said inside stile surfaces from view from the inside and provide a wide, easily weatherstripped abutment joint between the respective stops and the side stiles of the sash.

2,661,508
STORM WINDOW OR SCREEN MOUNTING STRUCTURE
Joseph Frances Hubert, New York, N. Y.
Application June 13, 1950, Serial No. 167,715
2 Claims. (Cl. 20—55)



1. A readily mountable and removable window structure comprising a sash adapted to fit and be held removably within a window frame opening, and a substantially U-shaped mounting member having a straight portion rotatably mounted on and extending across a mid-portion of the sash, resilient legs extending angularly in a common plane from opposite ends of said straight portion at opposite sides of the sash, and portions on the free ends of said legs extending outwardly therefrom in opposite directions on a line substantially parallel to said straight portion for pivotal mounting in axially aligned retainers at opposite sides of the window frame opening, said legs normally holding said end portions spaced apart a distance greater than the distance between the retainers but being springable inwardly for engagement of said end portions in the retainers, the mounting of said straight portion and the length of said legs being such that the U-shaped member when engaged with the retainers will guide the sash from a position spaced downwardly and outwardly from the frame opening to a normal position within said opening, and elongated flexible elements each connected at one end to a side portion of the sash and adapted to be attached at its other end to the window frame for suspending the sash during engagement of said end portions with the retainers.

2,661,509
STORM WINDOW LATCH
Benedict E. Moriarty, Kenosha, Wis.
Application February 19, 1952, Serial No. 272,450
2 Claims. (Cl. 20—55)

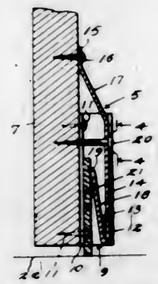


1. In a window and storm window construction of the type including a window frame, a pair of double-hung regular sash, and a storm sash, a latching device for automatically opening and closing the storm sash upon the raising and lowering of the window sash including, an angle bracket secured to the outer surface of the stile of the window sash, an angle bracket secured to the inner surface of the respective stile of the storm sash at a point above the window sash bracket, said window sash angle bracket having an upright section provided with a vertically extending slot, a headed bolt extending horizontally through said slot, a nut threaded on the outer end of said bolt, a spring about said bolt pressing against said nut and the adjacent surface of the upright section of the said window sash bracket, said bolt, nut and spring being so constructed and arranged as to be normally frictionally held in the upper end of said slot, but adapted to be moved against said frictional engagement downward in said slot under sufficient pressure, and a latch lever pivoted at one end to the storm sash bracket, the other end of the latch lever being pivotably secured to the headed bolt, the length of the latch between said pivotal connections being such that when the window sash is closed the headed bolt is positioned in the upper portion of the slot, whereby, the raising and lowering of the window sash will automatically open and close the storm sash but upon sufficient resistance from the storm sash the window sash may be raised independently as the headed bolt moves downwardly in the slot.

2,661,510
WEATHER STRIP MOUNTING FOR CLOSURES
Raphael J. Folse, New Orleans, La.
Application July 9, 1952, Serial No. 297,852
6 Claims. (Cl. 20—69)

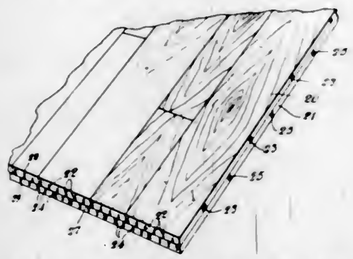
1. The combination with a closure and a weather strip for sealing a space between a bottom edge of the closure and a surface disposed therebeneath, of a weather strip mounting unit demountably and adjustably supporting said weather strip on one side of the closure and adjacent the bottom edge thereof, said mounting unit including inwardly opening corresponding channel members secured to one side of the bot-

tom portion of the closure and adjacent the opposite side edges thereof, an elongated strip of metal including an intermediate strip portion extending from end-to-end of said strip and spaced from longitudinal edges thereof, said intermediate strip portion having the end portions thereof engaging in said inwardly opening channel members, said strip having an upper longitudinal edge portion extending upwardly from said intermediate strip portion and from said channel members, means for securing said upper edge portion of the strip to the closure for supporting said intermediate strip portion in engagement with the channel members, and said strip including a turned back bottom edge portion extending upwardly from the lower edge of said intermediate strip portion and having the end portions



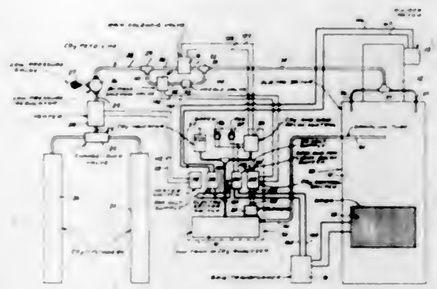
thereof disposed in said channel members, said last mentioned portion forming a clamping strip and being disposed on the inner side of said intermediate strip portion and being spring biased toward the closure, said weather strip being disposed with its ends engaging in said channel members and between said closure and said clamping portion, the upper free edge of said clamping portion yieldably bearing against a longitudinal portion of the weather strip for clamping the weather strip between said clamping strip and the inner flanges of said channel members for supporting the bottom edge of the weather strip at a desired level below the bottom edge of the closure and in engagement with the surface disposed beneath the closure for sealing the space between said surface and the closure.

2,661,511
BUILT-UP WOOD PANEL
Frederick Weyerhaeuser, St. Paul, Minn., assignor, by mesne assignments, to Rock Island Millwork Company, Rock Island, Ill., a corporation of Illinois
Application September 18, 1948, Serial No. 49,911
2 Claims. (Cl. 20—91)



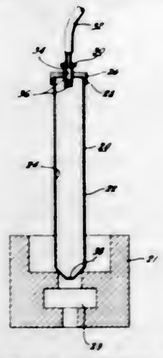
1. A two-layer structure comprising two panels adhesively united facewise to each other, each panel comprising a plurality of boards of uniform thickness placed edge to edge in panel formation with the grain of all the boards extending parallel to the resulting edge-joints of the panel, the resulting assembly having one face uninterrupted and the other face provided with a multiplicity of kerfs all having uniform depths which are a major portion of the thickness of the assembly, the kerfed face having spaced parallel rectangular cross-sectional channels cut therein to the same depth as the kerfs and extending at right angles to the kerfs, and lengthwise-stable splines filling said channels and adhesively secured to the bottoms thereof, the said two panels in being adhesively united at their kerfed faces having each kerf opposed by unkerfed wood in the opposite panel.

2,661,512
ELECTRICAL INSECT KILLER WITH FIRE PREVENTING MEANS
Ernest Kretschmar, Clayton, Mo.
Application July 7, 1950, Serial No. 172,567
10 Claims. (Cl. 21—102)



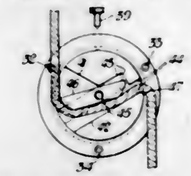
1. In a machine for treating material in a housing with an electrical current, and for maintaining a non-explosive atmosphere in the housing: the combination of a housing as aforesaid; electrical means in the housing to receive and treat the material; feeding means to feed the material to the electrical means; intermittent gas supply means to supply a component of carbon dioxide gas to the housing to render the atmosphere therein non-explosive; a gas analyzer operable to indicate the density of said component in the housing; the analyzer being adapted to produce a pressure that varies with the density of the gas component in said atmosphere; a pressure-responsive switch mechanism having a first switch device, a second switch device, and a member moved by pressure changes produced by increasing density of the gas from a position to the first switch device, to a neutral position, and thence to a position to open the second switch device, both switch devices being adapted to close when not so operated; a control device, for rendering the electrical means operative, said control being connected with the first switch device, whereby said control device can cause operation of the electrical means only when the density attains a value to move the switch-operating member to neutral position; the gas supply means being connected with the second switch device, whereby it will be rendered inoperative only when the density attains a value to move the switch-operating member beyond neutral, to position for opening the second switch-operating device, and will be rendered operative again when density falls to return the switch-operating member to neutral.

2,661,513
CORE BLOWER
Reife N. Brewer, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 30, 1951, Serial No. 244,411
1 Claim. (Cl. 22—10)



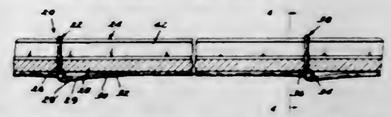
A core blower for use in filling core molds, comprising in combination; an elongate charging tube having an unrestricted internal diameter not in excess of 1½", open at one end and having an outlet orifice at the other end thereof, a removable cap for said tube for closing the open end thereof and a tubular fitting carried by and passing through said cap so as to extend into said charging tube a substantial distance, said fitting being closed at its inner end and including a plurality of radially located apertures in the extended wall thereof, said fitting being adapted to have the other end connected to a source of fluid pressure whereby fluid under pressure will enter said fitting and be directed into the tube perpendicularly to the longitudinal axis thereof so as to force the contents of the charging tube longitudinally wtihout channeling into a core mold.

2,661,514
PIVOTED LOCKING MEANS FOR LINES
Victor Martin, Parkstone, England; Amelia Ada Martin and Doris Attwell, administratrices of said Victor Martin, deceased
Application April 11, 1951, Serial No. 220,467
Claims priority, application Great Britain May 26, 1950
2 Claims. (Cl. 24—134)



1. A locking means for a line, comprising a wall plate adapted to be affixed on a wall or the like support, a base plate rotatably mounted on said wall plate whereby said base plate may be angularly adjusted clockwise and counterclockwise with respect to said wall plate, said base plate having an open-sided channel extending therethrough between generally opposite portions of the periphery thereof for receiving a line, the base plate along one side of said channel constituting an abutment, a simple lever having arms of unequal length pivoted to said base plate in said channel for swinging about an axis normal to the plane of the base plate at a point spaced from said abutment for engaging the line against said abutment, the shorter of the lever arms swinging against said line and towards said abutment in response to pull of said line against the longer of the lever arms, and releasable locking means engaging between said plates for maintaining said base plate in angularly adjustable position, whereby said base plate may be adjusted to and maintained in an angular position selected in accordance with the lead of the line.

2,661,515
RESILIENT FASTENING CLIP
Neis Nelsson, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application May 11, 1948, Serial No. 26,393
2 Claims. (Cl. 24—261)

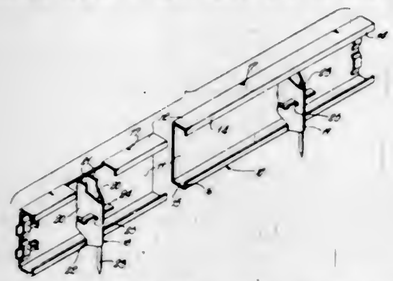


1. A resilient clip for securing a lath panel to a support, said clip comprising an elongated body portion, a support-engaging head portion at one extremity of said clip and a hook portion at the opposite extremity of said clip, said head portion extending at substantially a right angle to the longitudinal axis of said body portion and adapted for nonrotatable connection with said support, said body portion being substantially arcuate in shape and the convex side of said body portion extending in the same direction as said head portion, a connecting portion joining said body portion and said head portion, said connecting portion including a hook-engaging surface, said surface and said head portion being disposed on the same side of said connecting portion, said surface being adapted to be spaced from the face of a lath panel a distance sufficient for the reception of the hook portion of an adjacent clip when said panel and clip are applied to the support, said hook portion extending at substantially a right angle to the longitudinal axis of said body portion and at substantially a right angle to the head portion, whereby said hook portion is adapted to engage the connecting portion of an adjacent clip and to be disposed between said surface of said connecting portion and the face of a lath panel, and the arcuate body portion of said clip is adapted to exert a continuing pressure on a face of the lath panel when said clip and panel are applied to the support.

2,661,516
FORM FOR CONCRETE AND THE LIKE
Richard C. Yates, Binghamton, N. Y., assignor to Binghamton Metal Forms, Inc., Binghamton, N. Y., a corporation of New York
Application February 28, 1950, Serial No. 146,850
4 Claims. (Cl. 25—118)

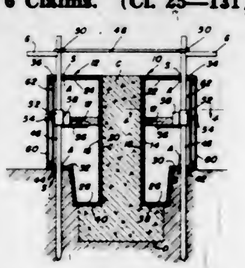
1. In a construction form, a channel-shaped body member comprising a vertical web having flanges on one side at the upper and lower edges thereof, said flanges having marginal portions at the free edges thereof turned downwardly and upwardly, respectively, into parallel relation with said web, and a stake pocket consisting of a single piece of sheet metal bent centrally to form a stake embracing bend therein and sides di-

verging in vertical planes toward said web, each said side having edge portions thereof in engagement with said web and both said flanges to form a rigid brace between the latter, the sole connection between said piece and body member consisting of metallic bonds between vertically extending edges of said piece and vertically ex-



tending surfaces of said member, and said stake pocket extending laterally from said web beyond the upturned marginal portion of said lower flange and having a downwardly projecting tab portion with vertical edges metallically bonded to the face of said upturned marginal portion remote from said web.

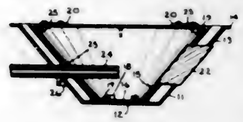
2,661,517
CONCRETE FORM
Jack Rue Findley, Bellflower, Calif.
Application June 29, 1951, Serial No. 234,298
6 Claims. (Cl. 25—131)



4. A concrete form comprising a pair of parallel side members, each of said side members including a pair of inner and outer telescoped channel shaped sections, said sections each having upper and lower flanges, the sections of one member being disposed in back to back relationship to the sections of the other member, the flanges of each outer section having a plurality of longitudinally spaced slots, the flanges of each inner section having a plurality of longitudinally spaced apertures therein for selectively registering with said slots, manually rotatable vertical rods extending through selected slots and the apertures in registry with the selected slots to maintain the inner and outer sections of each member adjusted longitudinally of each other, and means carried by said rods for clamping waler strips against the sections.

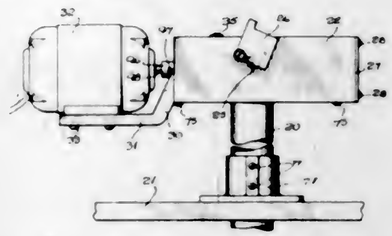
2,661,518
CONCRETE MOLD MOLDING PROCESS
Henry L. Carlson, Kings Park, N. Y.
Application September 18, 1951, Serial No. 247,097
3 Claims. (Cl. 25—155)

1. The process of molding a frustum conical cement concrete unit which consists in pouring the cement concrete into a mold formed by two concentric spaced frustum conical forms traversed by a projecting rod at about the center of gravity of the hardened unit, removing the pipe



when the concrete has hardened, removing the inner form, reinserting the pipe, inverting the unit, and removing the outer form.

2,661,519
THREAD TRIMMING MACHINE
Julius Rubin, Bronx, N. Y.
Application December 26, 1951, Serial No. 263,169
6 Claims. (Cl. 26—11)



2. A thread cutting machine comprising a housing, a bracket fitting into and enclosed by said housing, a toothed guide plate connected at one end of said housing and a thread cutter blade assembly connected at an adjacent end of said bracket so that said thread cutter blade assembly is disposed adjacent to said guide plate for forming a cutter opening therebetween, said bracket being longitudinally adjustable relative to said housing so as to produce a corresponding longitudinal adjustment between said blade assembly and said guide plate, said guide plate being normally laterally spaced from said blade assembly and being further laterally adjustable relative thereto, and a motor for operating said blade assembly mounted on said bracket and externally of said housing, said motor being adapted to be grasped by the hand so as to afford longitudinal adjustment of said blade assembly relative to said tooth guide plate whereby said cutter opening may be adjusted from two perpendicularly related directions.

2,661,520
SHRINKAGE METHOD FOR KNITTED FABRICS
John Hamilton, Oakford, and Arthur A. Meder, Jr., Penllyn, Pa., assignors to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application June 19, 1950, Serial No. 168,952
5 Claims. (Cl. 26—18.5)

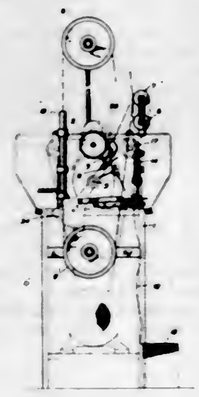
1. A method of treating wet or moist stretched knitted fabric whereof the stitches are distorted from normal shape, which method comprises mechanically collapsing the stitches from their distorted condition to an extent to condense the fabric both lengthwise and widthwise and cause substantial overlapping and close intermingling of the stitches, thus reducing the fabric to smaller-

than-normal size, drying the fabric concomitantly with the stitch collapsing action, and cal-



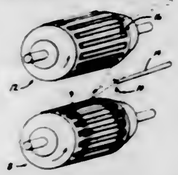
endering the fabric to finish the same and to expand the fabric to its normal size.

2,661,521
YARN STRETCHING DEVICE
Eliot Stone, Edward James Sparke, and Joseph Patrick Muldowney, London, England, assignors to British Enka Limited, London, England, a British company
Application July 7, 1952, Serial No. 297,466
Claims priority, application Great Britain July 28, 1951
7 Claims. (Cl. 28—71.3)



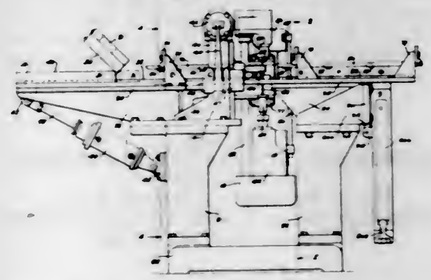
1. A device for applying stretch to a textile yarn embodying means for winding the yarn onto a former, spool or the like, a feeler adapted to engage the yarn on the former and to be displaced as the diameter of the yarn on the former increases, a feeding and withdrawing means and spaced guide means such as pulley wheels which in conjunction with said guide means define a given path through which the yarn can be passed in a bight, said feeding and withdrawing means consisting of two freely rotatable stepped godets or rollers arranged side by side of which the smaller godet steps are tapered in the same axial direction, and a guide for leading yarn onto the tapered godet steps which guide is adjustable in the axial direction of said godets under the control of said feeler so that on entering said given path the yarn can be fed into said given path by the tapered godet steps at a speed which is an adjustable fraction of the speed at which it is withdrawn by the larger godet steps whereby to be stretched to a variable extent in dependence upon the displacement of said feeler.

2,661,522
STRAND LACER FOR REELS
William B. Lowe, Springhaven, and Harry E. Pape, Norwood, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application April 28, 1949, Serial No. 90,122
16 Claims. (Cl. 28—71.5)



1. In combination with a thread-advancing reel having an axis of rotation and strand-supporting surfaces, said surfaces comprising a zone extending around the reel for supporting and advancing a strand lengthwise of the reel during its normal operation and another zone extending around the reel immediately adjacent the first-named zone for receiving the strand prior to lacing the first-named zone; means constructed and arranged for rotation with the reel, said means having a projecting surface extending into radial alignment with respect to said axis with the second-named zone for catching a strand led into substantially tangential relationship with the second-named zone.

2,661,523
DRILLING AND TANGING MACHINE
Hooper J. Houck and Richard M. Morgan, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 11, 1948, Serial No. 32,290
7 Claims. (Cl. 29—33)



1. In a machine for drilling and shearing a semi-circular bearing, the combination with a reciprocative shifter comprising two spaced, parallel bars slidable on a stationary part of the machine and adapted to have the bearing placed therebetween so that its edges seat upon the machine, said shifter having provisions for progressively moving the bearing from one station to another as the shifter is moved out of normal position; means on the machine for engaging the bearing at each station and preventing movement thereof as the shifter is returning to its normal position; a circularly shaped clamp movable into engagement with the bearing at one predetermined station for pressing the bearing rigidly upon the machine; a ring shaped stationary part of the machine adjacent said predetermined station and concentric with the semi-circular bearing; a bracket having a circular portion piv-

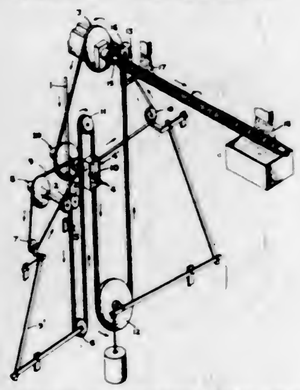
otally supported in the ring shaped stationary part of the machine so as to be circumferentially adjustable relatively thereto; drilling apparatus attached to said bracket, said apparatus having its drill centrally aligned with the clamped bearing so as to be diametrical relatively thereto; a pincer mechanism consisting of two pivoted levers one operative to clamp the work piece to the machine at another predetermined station, the other to shear said clamped work piece; means for actuating the shifter; means for actuating the clamp to engage the bearing after the shifter has moved it to said one predetermined station and before said shifter starts to return to its normal position; means for rendering the drilling apparatus active to drill the bearing while it is clamped upon the machine, and means for actuating the pincer mechanism, all of the four last mentioned actuating means each being under the control of an individual control device engageable with and operated in timed intervals, one relatively to the other, by an individual cam, all of said cams being mounted upon and driven by a common, power actuated shaft.

2,661,524
FORM CUTTING TOOL
John W. Leighton, Port Huron, Mich.
Application January 12, 1951, Serial No. 205,677
2 Claims. (Cl. 29—95)



1. A form cutting tool having a formed face upon one side and a supporting portion opposite, and generally parallel, to the formed side, an end of the tool having a surface intersecting the formed face to define a cutting edge and lying at a rake angle and the remainder of said end being inclined at an angle substantially exceeding the rake angle, the side having the formed face being bodily offset with respect to the opposite side in the direction of said end.

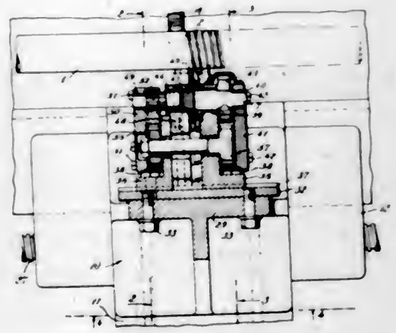
2,661,525
METHOD AND APPARATUS FOR MAKING FINNED TUBES
Ray C. Edwards, Glen Rock, N. J.
Application August 8, 1949, Serial No. 109,085
8 Claims. (Cl. 29—157.3)



1. The method of applying thin narrow radiation fins on a tube, which consists in splitting a relatively wide strip of thin metal into a plurality of uniform narrow strips, passing the thin narrow strips simultaneously through crimping means for laterally crimping them, simultaneously winding the thin narrow strips in uniform spaced parallel relation edgewise upon a tube, applying soldering flux to the strips wound upon the tube, subjecting the tube and strips to a soldering bath for coating and securing the strips to the tube, and synchronizing the feeding of the wide strip during the splitting operation with the crimping and winding operations of the narrow strips.

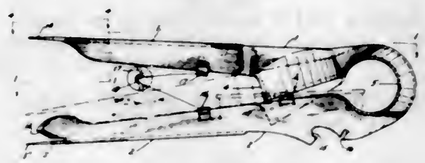
5. In a machine for making finned tubes, the combination of, means for revolving and moving longitudinally a tube to be finned, slitting means for slitting a metallic strip into a plurality of individual fin-forming strips, crimping rollers for simultaneously crimping said strips, means for driving said crimping rollers, means connecting said crimping roller driving means to said tube revolving and moving means to provide synchronous operation of said crimping rollers and said tube revolving means, means for driving said slitting means, power transmission means connecting the driving means of said slitting means and the driving means of said crimping rollers to provide synchronized operation of the splitting means and crimping rollers, a strip guiding comb supported adjacent to said tube to be finned and receiving said strips from said crimping rollers, said comb acting to guide said fin-forming strips into spaced parallel relationship with each other, and an ironing roller mounted adjacent to said comb and tube and receiving the fin-forming strips from said comb to deform and wind the strips in parallel edgewise relation about and in contact with the tube, means for driving said ironing roller, and means to provide synchronized operation of said ironing roller driving means and said tube revolving means.

2,661,526
METHOD OF MAKING FIN TUBING
Ernest Bruegger, Massillon, Ohio, assignor to The Griscom Russell Company, New York, N. Y., a corporation of Delaware
Application January 26, 1944, Serial No. 519,788
3 Claims. (Cl. 29—157.3)



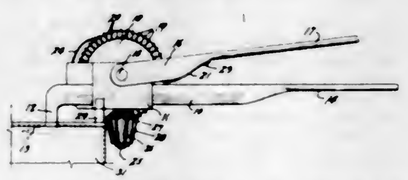
1. The method of making fin tubing which comprises furrowing the surface of the tube by a plowing action to displace the material of the tube outwardly without detaching it therefrom, applying a fin strip to the tube with one edge thereof within said furrow, and swaging the displaced material against the surface of said strip.

2,661,527
CAN OPENER AND HOUSEHOLD UTILITY
Louis M. Westerhouse, Birmingham, Ala.
Application August 6, 1951, Serial No. 240,529
1 Claim. (Cl. 30—5.5)



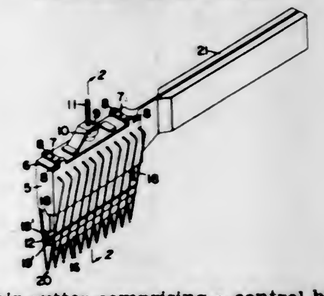
A can opener of the character described comprising, a single piece of metal defining a rounded end portion as a spring with two portions extending from the rounded portion as handle portions, said spring portion being set normally to hold the handle portions apart, one of the said handle portions being the lower handle and the other being the upper handle, an off-set portion in the upper edge of the lower handle portion, said off-set having a sharp edge, the upper handle portion having a pointed knife positioned adjacent the off-set sharp portion, said off-set sharp portion being adapted for use as a fulcrum when placed adjacent the under edge of the rim of a tin can with the point of the knife on the edge of the top of the can.

2,661,528
CAN OPENER
George H. Coplen, Cripple Creek, Colo.
Application June 30, 1952, Serial No. 296,290
2 Claims. (Cl. 30—20)



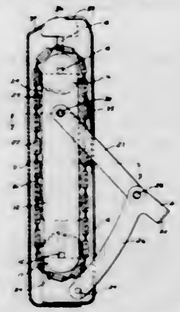
1. The combination with a can opener of the type having a pointed, hooked guide bar with a slidable carriage member on said guide bar and a can-cutting blade projecting downwardly from said carriage member, of means for forcing said can-cutting blade around the periphery of a can, comprising: a fixed stub shaft extending vertically downward from said carriage member adjacent said cutting blade; a traction roller of greater diameter at its mid-portion than at its bottom and top rotatably mounted on said shaft; elongated, inclined, can-gripping teeth extending from the greater diameter mid-portion to the bottom of said roller adapted to engage the outer periphery of a can; beveled gear teeth extending from the greater diameter mid-portion to the top of said roller in alignment with said can-gripping teeth; a stationary, horizontal, transverse shaft projecting from said carriage member at right angles to and above said guide bar; a wheel rotatably mounted on said transverse shaft; beveled teeth formed on said wheel and meshing with the beveled teeth on the top of said traction roller; an upper handle member hingedly mounted on said transverse shaft; peripheral ratchet teeth formed in said wheel; a ratchet pawl mounted on said upper handle member and engaging said ratchet teeth to rotate said wheel; and a lower handle member formed on said guide bar in gripping relation to said upper handle member so that when said handle members are forced together, said wheel will be rotated.

2,661,529
HAIR CUTTER
Francesco D. Infantino, Camden, N. J.
Application November 5, 1952, Serial No. 318,926
4 Claims. (Cl. 30—30)



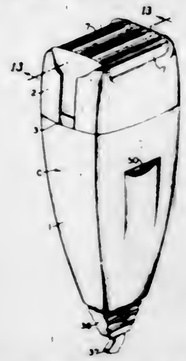
1. A hair cutter comprising a control box having an opening at the top and open at the bottom, a lid detachably secured to said control box for normally closing the opening at the top thereof, a razor blade holder slidably mounted for vertical movements in the control box and having a portion projecting through the lid, means connected to said projecting portion and coacting with the lid for vertically adjusting the blade holder, a guard comprised of a plurality of individual wire strands each fashioned into substantially triangular shape to provide an acute angle and fixed at the base to opposite sides of the control box with said angle located centrally below the blade holder, and a handle on one end of said control box.

2,661,530
MAGAZINE SAFETY RAZOR
John F. Cavanagh, Cranston, R. I.
Application June 5, 1951, Serial No. 230,011
12 Claims. (Cl. 30—40)



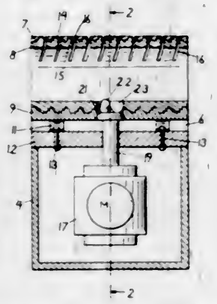
1. A razor comprising a casing, a conveyor drum rotatably mounted in each end of said casing, an endless band consisting of flexibly connected single edge razor blades mounted upon said drums, an opening in said casing adjacent to the periphery of a drum, said opening adapted to expose a blade edge for shaving action, the spacing of said razor blades in said band being such that the back edge of any blade constitutes a guard for the cutting edge of a juxtaposed blade when said juxtaposed blade is in shaving position, and means for successively placing said blades in shaving position with respect to said opening in said casing.

2,661,531
ELECTRIC DRY SHAVER CONSTRUCTION
Jan Streng, Ridgefield, Conn., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application January 4, 1950, Serial No. 136,670
6 Claims. (Cl. 30—41)



1. In a dry shaver, the combination of an elongated shaver casing comprising upper and lower sections separable from one another in a plane crosswise of the casing; a plate-like member removably secured to the lower section to form separate chambers within the interior of said casing when its sections are united in continuous casing forming relation relative to one another; a motor mounted within the lower of said chambers; a removable cutter head assembly mounted within the upper of said chambers; driving means extending from one to the other of said chambers and operatively connecting the motor with said cutter head assembly; means to effectively seal one chamber from the other to confine hair, cut by said cutter head assembly, within the upper chamber and excluded from the lower chamber; and means carried by said plate-like member adapted to detachably hold said sections in said continuous casing forming relation relative to one another.

2,661,532
ELECTRIC RAZOR
Max Salz, New York, N. Y.
Application December 20, 1950, Serial No. 201,790
7 Claims. (Cl. 30—43)



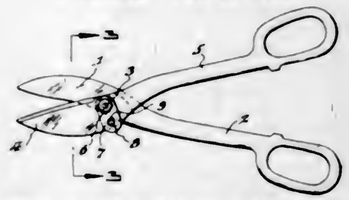
6. A razor comprising a housing having an end wall, said wall having parallel slots of trapezoid cross-section and having cutting edges extending at the outer surface of said wall along said slots; a member movable in said housing in the direction of said slots and having projections of trapezoid cross-section reaching into and fitting the cross-sections of said slots, said projections having cutting edges contacting said cutting edges of said wall; and means to oscillate said member.

2,661,533
RAZOR WITH ADJUSTABLE GUARD
Meyer J. Shnitzler, Brookline, Mass., assignor to The Gillette Company, a corporation of Delaware
Application July 17, 1948, Serial No. 39,306
4 Claims. (Cl. 30—63)



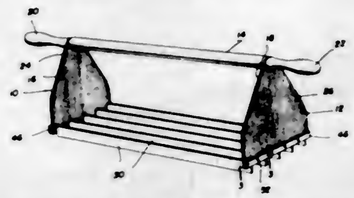
2. A safety razor comprising a blade, superposed forwardly opening blade-clamping members of which the lower is extended to provide a lower guard for the blade edge and the upper of which terminates at a distance behind the blade edge, an upper guard for the blade edge having a flat blade-engaging portion provided with a window that surrounds the blade-engaging portion of the upper blade-clamping member, and an adjustable connection between said upper guard and the blade-clamping member surrounded thereby whereby the relative position of the two may be varied to adjust the edge exposure of the blade.

2,661,534
SHEARING ACTION DEVICE
David Howard Keiser, Jr., West Lawn, Pa.
Application July 14, 1950, Serial No. 173,784
5 Claims. (Cl. 30—248)



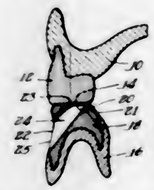
5. Shears of the character described comprising, an integral handle and cutting blade unit, a pivot stud intermediate the ends of said unit, a second handle pivotally mounted on said unit, a second cutting blade loosely pivoted on said pivot stud, and means establishing a loose connection between said second handle and second cutting blade above the cutting edge of the latter and adjacent the rear edge of said second cutting blade so that the second cutting blade will be pushed about the pivot stud in tilted relation to the blade of said unit during cutting operation of the shears.

2,661,535
COMESTIBLE CHOPPING DEVICE
James J. Berles, Fort Wayne, Ind.
Application May 21, 1952, Serial No. 289,133
3 Claims. (Cl. 30—305)



1. A comestible chopping device comprising two rigid spaced apart plates arranged in parallel planes, a bar secured between said end plates and serving dual functions as a handle and as a rigidifying member, each end plate having a plurality of parallel extending slots cut along the edge opposite said bar, the slots in each plate being arranged symmetrically opposite the slots in the other plate, a plurality of knife blades transversely extending between said plates and being received in and supported by said slots, each blade having on its opposite ends right angle flanges which engage the outer sides of said plates, and a clamping bar of U-shaped cross section for each end plate and secured to said each plate in such a manner that all of the blade flanges are embraced and rigidly attached to the plate and are thereby restrained against movement with respect to the aforesaid slots.

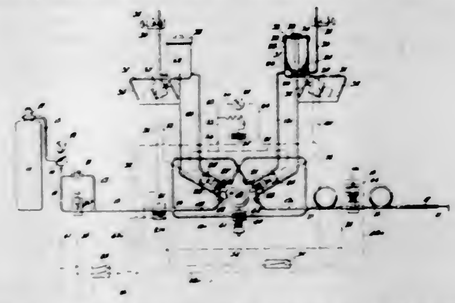
2,661,536
NONANATOMIC POSTERIOR DENTURE TEETH
Irving L. Cook, Suring, Wis.
Application March 26, 1952, Serial No. 278,715
7 Claims. (Cl. 32—2)



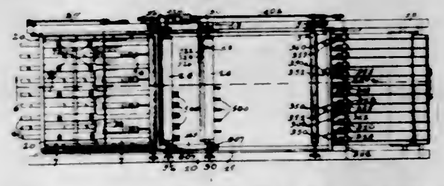
1. A nonanatomic posterior denture tooth having a substantially smooth occlusal face, at least one opening in the occlusal face adjacent the center thereof, and a substantially straight tunnel connecting said opening in the occlusal face with an opening in one of the side faces of the tooth, the walls of said tunnel uniformly diverging from the opening in the occlusal face to the opening in the side face of the tooth.

2,661,537
EQUIPMENT FOR TREATING TEETH BY MEANS OF FINELY POWDERED MATERIALS CARRIED BY A STREAM OF GAS
Robert C. Angell, Prince Bay, N. Y., assignor to Robert B. Black, Corpus Christi, Tex.
Application February 15, 1950, Serial No. 144,324
11 Claims. (Cl. 32—58)

1. Equipment for treating teeth by means of finely powdered materials carried by a stream of gas, comprising, in combination with a source of compressed gas, a nozzle, conduit means connecting the gas source with the nozzle, at least two containers for holding powdered treating material, means for delivering material from each container into said conduit means, said material delivery means including a normally inactive vibrator for each container, a valve normally closing the conduit means on the nozzle side of the delivery means, means for conditioning one vibrator at a time for activation, and means for opening the conduit valve and simultaneously effecting activation of the conditioned vibrator.



2,661,538
RULING MACHINE
John Davies Moore, Montreal, Quebec, Canada
Application February 23, 1952, Serial No. 273,048
9 Claims. (Cl. 33—32)

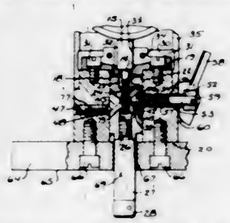


1. A ruling machine having in combination with a supporting frame, a ruling element supporting beam pivotally mounted above said frame so as to extend transversely across said frame, a template carrying frame mounted on said supporting frame for horizontal reciprocal movement beneath said element supporting beam, a thin flat template mounted on said template carrying frame, a paper supporting carriage mounted on said frame for horizontal reciprocal movement beneath said template carrying frame, means connecting said template carrying frame to said paper supporting carriage, means to reciprocate said paper supporting carriage, paper feeding means adapted to feed single sheets of paper on to said paper supporting carriage, and means on said template carrying frame and supporting frame adapted to pivot said ruling element supporting beam towards and away from operative contact with said template during the reciprocal movement of said template carrying frame.

2,661,539
GAUGE UNIT
Hans J. Lovenston, Detroit, Mich.
Application August 1, 1949, Serial No. 107,846
17 Claims. (Cl. 33—172)

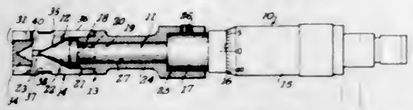
1. A gage unit for use with an indicator of the type having a reciprocable stem and an indicating mechanism arranged to be actuated by said stem comprising a body having means thereon for supporting said indicator, an axially slidable

plunger in said body, means for connecting said plunger with said stem so that said indicating mechanism is actuated by said plunger when the plunger moves in one direction, stop means on said body engageable with said plunger for limiting the axial movement of said plunger in said one direction to a position within the operating range of said indicator whereby when said plunger is engaged against said stop, shocks imparted to said plunger are absorbed by said body and prevented from being transmitted to said



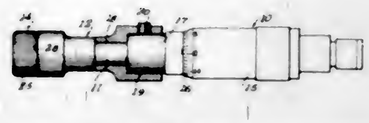
stem and indicating mechanism, and including resilient means on said body acting on and biasing said plunger in a direction opposite to said one direction and including cam means on said body engageable with said plunger to move said plunger in said one direction to a position engaging said stop means and being movable to release said plunger, whereby when said cam means are released said plunger moves in said opposite direction under the influence of said resilient means.

2,661,540
HOLE GAUGE
John H. Dulligan, South Gate, Calif.
Application November 13, 1950, Serial No. 195,219
2 Claims. (Cl. 33—178)



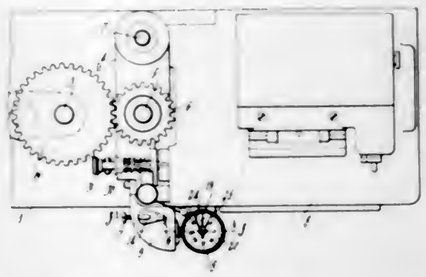
1. In a hole gauge having a micrometer head provided with a fixed sleeve and an axially movable stem extending concentrically from said sleeve and with an elongated body affixed to the sleeve and having a bore through which the stem extends, there being a conical tip on the end of said stem and beyond the end of said body, the apex of said tip being outwardly directed, the improvement that comprises a tubular housing around the tip connected to and forming an extension of the elongated body, an end wall on said housing formed with a conical recess to receive the apex of said tip when projected in a direction away from the end of the elongated body, the tubular wall of the tubular housing comprising a set of segments defined by longitudinal slots that extend for the entire length of the housing, the ends of the segments opposite the end wall of the housing fitting over the end of the elongated body, a set of gauge pieces each equal in length to the overall length of the housing and residing in the slots in said housing, each gauge piece having a sloping edge face at an angle conforming to the angle of the conical tip, means encircling the set of gauge pieces and resiliently urging the sloping edge faces thereof into engagement with the tip, and a lateral projection on each gauge piece, there being a lateral slideway in each segment to slidingly guide the gauge pieces during transverse movement of said pieces as controlled by the movement of the tip.

2,661,541
HELICALLY-COILED HOLE GAUGE
John H. Dulligan, South Gate, Calif.
Application July 28, 1951, Serial No. 239,152
5 Claims. (Cl. 33—178)



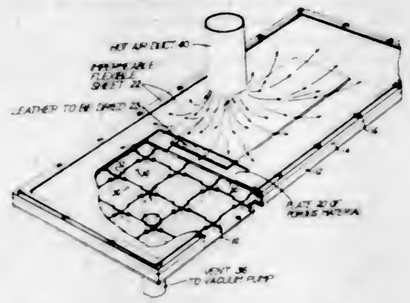
1. A hole gauge comprising a micrometer head having a fixed sleeve and an axially movable stem extending concentrically from said sleeve, an elongated body removably affixed to the sleeve and having a bore through which the stem extends, a conical member on the end of said stem, said member having its smaller end adjacent the stem, and an annular helically coiled and elastic means encircling the conical member and having abutment against the end of the elongated body, the outer coil portions of the elastic means being straight describing a cylindrical gauging annulus and the inner coil portions being conically disposed to engage the conical member.

2,661,542
APPARATUS FOR MEASURING BACKLASH IN GEARS
Arthur I. Bean, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application April 4, 1946, Serial No. 659,524
9 Claims. (Cl. 33—179.5)



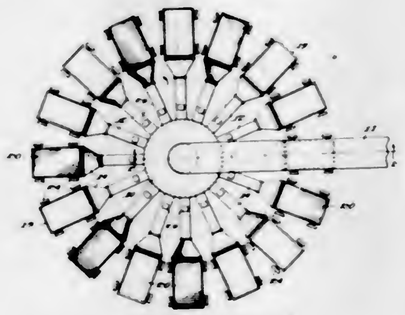
6. An apparatus for measuring the backlash of gears, comprising a base, holders on said base for a gear to be measured and a master gear, respectively, one of which holders is movable so as to vary the distance between the centers of gears mounted on their respective holders in mesh one with the other, a backlash measuring indicator having a movable plunger and means actuated by said plunger for showing backlash measurements, a scale carried on said base, graduations calibrated on said scale showing the pressure angle of gears to be measured and motion transmission means between said movable holder and plunger adapted to cause movement of the plunger when the holder is moved, said motion transmission means including a lever fulcrumed on said base and means cooperating with said scale to vary the ratio of movement transmitted by said lever between said movable holder and said plunger as determined from the pressure angle of the gear being measured.

2,661,543
APPARATUS FOR AND METHODS OF DRYING LEATHER
Joseph M. Tyndall, Columbus, Ind., and Mieth Maeser, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 24, 1950, Serial No. 170,206
3 Claims. (Cl. 34—12)



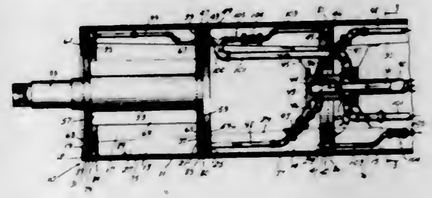
1. The method of drying leather which comprises confining a spread-out wet piece of leather between two flat surfaces, the grain side of said work piece being placed in contact with one of said surfaces which is impermeable to water vapor and the flesh side being placed in contact with the other of said surfaces which is of a porous material that is vapor-transmissive when wet, applying heat to the said piece of leather and simultaneously evacuating vapor through said porous material.

2,661,544
MULTIPLE BATCH DRIER
Arthur E. Tanasse, Sunnyside, Wash.
Application December 12, 1949, Serial No. 132,454
1 Claim. (Cl. 34—54)



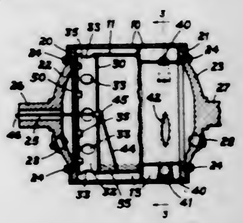
In a multiple batch dryer, a central housing, a conduit for conveying warm air from a source of supply to said housing, a plurality of outlet tubes extending radially from said housing, a car arranged contiguous to each of said tubes, flexible connections connecting said cars to said tubes, said housing including a continuous cylindrical wall, a conical shaped section on the upper end of said wall, an annular flange extending upwardly from said conical section and snugly positioned within said supply conduit, said cars each including a base, a first screen removably mounted on the upper portion of said base, a second screen positioned below said first screen and providing an air distributing chamber, elongated necks extending from said cars for engagement with one end of said flexible connectors, reinforced rings arranged in engagement with the other end of said connectors, and static pressure regulators positioned in said outlet tubes.

2,661,545
DRIER
William Messinger, Philadelphia, Pa.
Application February 1, 1950, Serial No. 141,792
10 Claims. (Cl. 34—124)



1. Drying mechanism, comprising a cylindrical shell formed with a plurality of series of channels lying upon opposite sides of a transverse plane, a circular manifold in the transverse plane communicating with adjacent ends of each of the channels of each adjacent series, circular manifolds spaced axially equidistantly from the transverse plane and communicating respectively with the remote ends of the channels of the said adjacent series, and means coaxially of the shell and lying in the first mentioned transverse plane to supply fluid to and receive fluid from the manifold.

2,661,546
PAPER MACHINERY
Lewis W. Petry, Middletown, and Joseph Baxter, Jr., Franklin, Ohio, assignors to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application June 14, 1951, Serial No. 231,543
9 Claims. (Cl. 34—124)

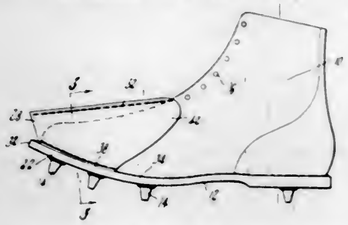


1. A drier drum of the character described comprising an outer shell, an inner shell within said outer shell and of smaller diameter providing an annular space therebetween, means for admitting steam to one end of said space for travel therethrough, means adjacent the other end of said space forming an open connection between said space and the interior of said inner shell to establish equal pressure conditions therein and to cause said steam to travel through said space generally axially of said drum, said connection means including a tubular member extending generally tangentially of said inner shell from a position adjacent the wall of said outer shell and said other end of said space to the interior of said inner shell for conveying condensate from said space to said inner shell in response to rotation of said drum, and means forming an outlet from the interior of said inner shell.

2,661,547
FOOTBALL SHOE WITH ATTACHMENT FOR KICKING

Ralph A. Hyde, Cambridge, and Frank Vietas, Bedford, Mass., assignors to A. R. Hyde & Sons Company, Cambridge, Mass., a corporation of Massachusetts

Application November 28, 1951, Serial No. 258,688
3 Claims. (Cl. 36—2.5)

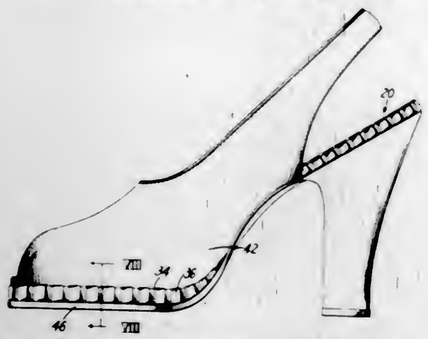


1. In combination with a football shoe having an upper and a sole, a superstructure having a top member extending from over the front of the toe of the shoe to over the instep, said top member being in the form of a shallow transversely concave trough extending longitudinally of the shoe with side edges diverging from front to rear and with the lowest portion of said trough contacting the shoe therebelow, and two upstanding side walls supporting said top member, the lower edges of said side walls being secured to margins of the ball portion of the sole.

2,661,548
COVERED SOLE MEMBER

Karl A. Stritter, Hahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application March 11, 1950, Serial No. 149,159
3 Claims. (Cl. 36—25)



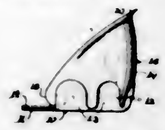
1. A sole member having its edge face and marginal portions covered by a leather strip having a portion of full thickness engaging the edge face of the sole member and having marginal portions of reduced thickness secured to the marginal portions of the sole member, the marginal portions of the strip tapering inwardly with respect to the sole member.

2,661,549
PLASTIC HEEL GUARD

Edward Lindner and Martha Muller, Philadelphia, Pa.

Application September 17, 1951, Serial No. 246,930
1 Claim. (Cl. 36—55)

A heel guard, to be inserted in a shoe, consisting of a fabric binder including a heel pad portion of the general shape of the underside of a person's heel and scallop-like tabs upturned from the heel pad portion, a coating of rubber composition on one face thereof, a heel tread of plastic having smooth surfaces and of the same shape as the heel pad portion of said binder, said heel tread being fixed to said heel pad portion by an adhesive composition, and a guard counter produced from a bowed substantially semi-circular panel of plastic having smooth surfaces fitted to and resting on the rear portion of the heel tread contiguous the edge thereof, said guard counter having forwardly and downwardly in-

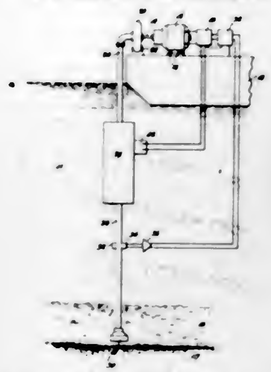


clined upper side edges terminating in rounded lower corners and fixed along the base thereof to the inside surfaces of the tabs by the adhesive on the binder, said guard counter also having along its upper marginal region an inwardly turned portion merging with an outwardly bulged outer marginal portion, said portions blending near said lower corners into the guard counter proper, and blending at the upper rear end of said outwardly bulged outer marginal portion into an outwardly projecting canted guide lip around the upper rear edge and upper side edges of said guard counter.

2,661,550
METHOD AND APPARATUS FOR CONTROLLING A DREDGING OPERATION

Ollie W. Graham, Tulsa, Okla., assignor to Instruments, Inc., Tulsa, Okla., a corporation of Oklahoma

Application May 2, 1951, Serial No. 224,190
6 Claims. (Cl. 37—58)

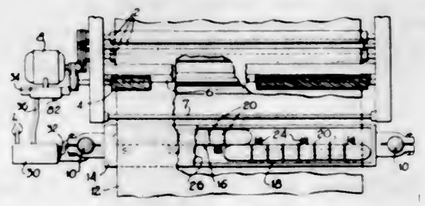


6. Apparatus for controlling a dredging operation that comprises a motor, a centrifugal pump having its shaft connected to the output shaft of said motor, a standpipe connected to the intake of said pump, said standpipe being located adjacent a bed underlying the body of liquid in which the dredging operation is being carried out, said standpipe being adapted to transport therethrough a liquid carrying suspended particles, a source of penetrating radioactive radiation and a detector of said radiation fixedly located at one point on said standpipe in such spaced relation to each other that said liquid containing suspended particles will pass therebetween, said detector acting to convert the detected radiation into electrical signals, means to amplify said electrical signals, and means responsive to said amplified electrical signals to control the operation of said motor and the position of said standpipe relative to said bed.

2,661,551
PROTECTIVE DEVICE

Wilmer C. Anderson, Greenwich, Conn., assignor to Deering Milliken Research Trust, Greenwich, Conn., a nonprofit trust of Maine

Application September 20, 1949, Serial No. 116,804
7 Claims. (Cl. 38—44)

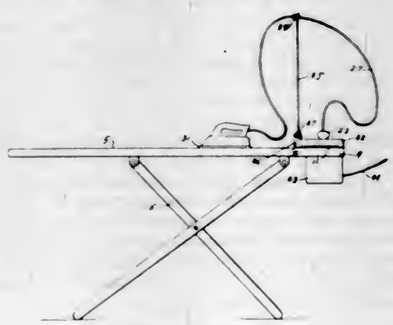


1. The combination with a textile fabric press having means for advancing fabric, a rotatable drum and steam jackets cooperating therewith and means for retracting the jacket from the drum, of a metal detector and stop motion device comprising a source of electrical oscillations, a circuit energized from said source and including a pair of search coils positioned for passage of the fabric thereby in its travel to the drum, a detecting circuit coupled to said first mentioned circuit and responsive to a change in the effective impedance of a coil occasioned by passage of a metal body through the field thereof, and means controlled by said detecting circuit for stopping the fabric advancing means and for actuating the jacket retracting means upon occurrence of a metal body in the fabric to be pressed.

2,661,552
STEAMING AND PRESSING APPARATUS

Ludwig Reichold, Simsbury, Conn.

Application July 11, 1951, Serial No. 236,111
9 Claims. (Cl. 38—77)



1. A steaming and pressing apparatus including an ironing board, a steam generator comprising a top plate secured to said ironing board and on a plane with the top surface thereof, a container depending from the bottom of said top plate, electric heating means for generating steam from liquid in said container, an electric circuit for energizing said heating means, an electric switch for controlling the energizing of the heating means, a heat responsive element adjacent to a wall of said container for operating said switch in response to changes in temperature of the container, an electric connector mounted in said top plate and connected to said circuit, and a steam outlet extending from said liquid container through said connector.

2,661,553
FOLDABLE IRONING BOARD AND IRON SUPPORT

Edwin E. Foster, Austin, Tex.

Application May 5, 1948, Serial No. 25,137
10 Claims. (Cl. 38—107)

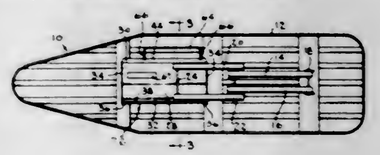


1. A supporting structure, for an iron and its arm and an ironing board comprising three tubular members of which one member is provided with means to pivotally support the ironing board on a horizontal axis and having an integral extension to rotatably support the arm and iron, the second member having means cooperating with the ironing board to latch the board in a horizontal position, means pivotally interconnecting the members for adjustment from a folded position to an open position, and means to interconnect the second and third members so that they can be adjusted together relative to the first member.

2,661,554
SUPPORT FOR IRONING TABLES

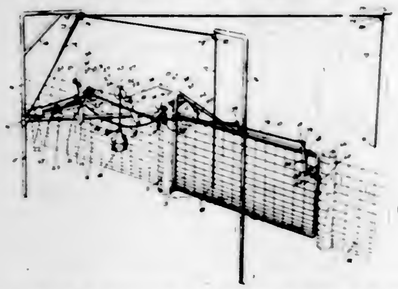
Joseph Siczkiewicz, Jr., and Herbert L. Voigt, Milwaukee, Wis., assignors to Geuder, Paeschke & Frey Co., Milwaukee, Wis., a corporation of Wisconsin

Application June 24, 1950, Serial No. 170,203
9 Claims. (Cl. 38—121)



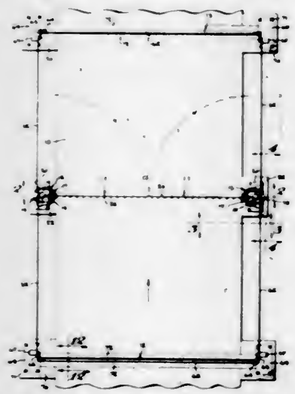
1. In an ironing table or the like having a top supported upon crossed supports, means supporting an upper end of one of said supports for movement longitudinally of said top in a predetermined path, a longitudinally extending guide secured to said top for guiding said upper end in said path, a pin carried by said upper end and extending laterally of said guide, a longitudinally extending bar pivotally mounted with respect to said top on an axis parallel with and adjacent said path, said bar having a plurality of longitudinally spaced notches adapted to engage said pin when said bar is pivoted toward said guide, and spring means normally urging said bar toward said guide.

2,661,555
GATE OPENING AND CLOSING MEANS
Adolph F. Hoppe, Cedar Falls, Iowa
Application June 11, 1951, Serial No. 230,991
5 Claims. (Cl. 39—35)



1. In a gate opening and closing means adapted for use with a swinging gate hingedly mounted on a gate post, a frame adapted to being secured near a gate post, an inverted pendulum swingably secured to said frame, a pair of arms capable of being hingedly secured to a gate post, a pair of flexible elements each having one end secured to said pendulum; one of said flexible elements having its other end secured to one of said arms; the other of said flexible elements having its other end connected to the other of said arms, a pair of flexible members each having one end secured to said gate; one of said flexible members having its other end connected to one of said arms; the other of said flexible members having its other end connected to the other of said arms, and a manual means for swingably moving said pendulum in two directions.

2,661,556
AUTOMATIC GATE OPERATING MECHANISM
Winford L. Enghauser, Cincinnati, Ohio
Application January 3, 1951, Serial No. 204,233
10 Claims. (Cl. 39—55)



1. A vehicle actuated gate operating mechanism comprising, a gate post, a gate, hinge means connecting the gate to the post, said hinge means providing horizontal swinging movement and vertical movement of the gate relative to the post, a fixed cam mounted on the gate post and having an inclined camming surface, a cam follower mounted upon the gate and adapted to track upon said camming surface, the cam follower imposing the weight load of the vertically movable gate upon the inclined cam surface, the cam surface being inclined in a direction to urge the gate normally toward a closed position by the weight load of the gate upon camming surface, a movable cam having a camming surface inclined in a direction opposite to the fixed cam and adapted to engage the said follower, guide means for said movable cam mounted with the gate post and adapted to guide the cam for movement in a vertical direction with respect to the fixed cam, said movable cam being arranged to engage the follower and swing the gate to an open position when the cam is elevated, an actuating mechanism connected to the movable cam and adapted to elevate and lower the same, a treadle located at the approach side of the gate, connecting means extending from the treadle to the actuating mechanism, the actuating mechanism being adapted to elevate the movable cam and thereby open the gate when a vehicle actuates the treadle upon approaching the gate.

2,661,557
MULTIPLE MOVEMENT GATE
Alois Reymann, Sandwich, Ill.
Application April 26, 1951, Serial No. 222,995
1 Claim. (Cl. 39—76)



A gate comprising in combination, a supporting member consisting of a U-shaped metallic channel having a pair of hinge pins at the upper and lower ends thereof, with a plurality of bolts extending between the flanges at vertically spaced intervals; a plurality of wooden beams each having one end portion disposed between said flanges and pivoted on the aforesaid bolts and extending outwardly therefrom in parallel relation to each other; a plurality of upright frame members disposed in co-acting pairs on the front and back faces of said beams, with each of said upright frame members extending across each of the beams and being pivoted thereto by bolts extending between the frame members and passing through spacing sleeves received in pivotal apertures of each of said beams; with a pair of lifting links pivotally connected to one of the aforementioned bolts on the supporting member, said links extending downwardly and outwardly from said bolt in parallel relationship and on the opposite sides of at least one of said beams; a roller between the lower ends of said links adapted to engage one of said beams on its lower surface to urge the gate upwardly, and a balance spring horizontally disposed between adjacent beams and extending outwardly from said roller, whereby the action of said roller and links will exert an upward component of force on the gate.

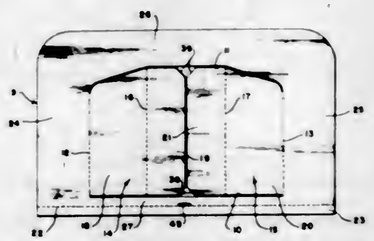
2,661,558
LOCKING SEAL FOR VEHICLE LICENSE PLATES
William S. Salisbury, San Francisco, Calif.
Application May 22, 1950, Serial No. 163,490
4 Claims. (Cl. 40—125)

1. Sealing means for the horizontally spaced headed bolts and nuts that are positioned for securing a vehicle license plate to its supporting bracket comprising; a strip apertured for said bolts and adapted to extend across the outer face of said plate for securement against said face by said nuts, and elements slidable on said strip from opposite ends thereof to positions extending over the bolt apertures in said strip and adapted to extend over said bolts and nuts, interlocking complementarily formed projections and recesses respectively formed on the adjacent ends of said elements and positioned for movement to interlocking interengaging relationship when said elements are moved together



from said opposite ends for locking said elements together, said elements including laterally opening channel portions disposed with their open sides facing said strip, the upper and lower sides of said portions extending across the longitudinally extending edges of said strip along their free edges, and end extensions on said strip projecting between said upper and lower sides at points oppositely outwardly of the apertures for said bolts to prevent access to said nuts from points at the ends of said strip when said bolts are in said apertures with the nuts thereon.

2,661,559
GREETING-DISPLAY CARD
Goldie J. Klein and Benjamin Klein, New York, N. Y.
Application September 10, 1951, Serial No. 245,948
4 Claims. (Cl. 40—126)



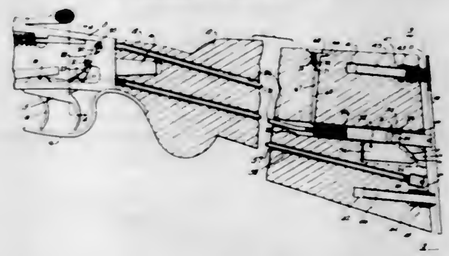
1. A collapsible display box comprising a front face unit having a pair of rearwardly extending portions and a display material back unit, the latter including a vertical backing sheet and a horizontal base member, said vertical backing sheet of said display material unit being constituted of two layers joined together at the upper and lower edges thereof, the rearwardly extending portions of the front face unit being inserted between said layers of said vertical backing sheet, the back unit being foldable upon itself in a vertical direction and then foldable, together with the constituent parts of the front unit and with the units in assembled relation, in a lateral direction, the folded portions of both the back and front units lying against the back face of the front unit when they are in such folded condition.

2,661,560
PICTURE DISPLAY DEVICE
Seth G. Malby, Edgewater, N. J.
Application July 18, 1949, Serial No. 105,366
1 Claim. (Cl. 40—155)



A cradle for suspending a rigid substantially rectangular plate assembly comprising four corner embracing elements displaceably secured to said plate assembly, a substantially central member slidably secured to the back of said plate assembly, a flexible cord secured at opposite ends to the lower two corner elements and slidably connected to said member, a second flexible cord having its opposite ends secured to the upper two corner elements and slidably passing over two fixed parts of said member and having a loop disposed between said two fixed parts whereby the assembly may be suspended with the weight of the article placing the cords in tension so as to increase the holding effort of said corner elements.

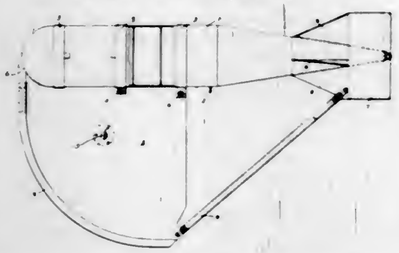
2,661,561
SAFETY LOCK FOR FIREARMS
Robert L. Magaro, Marysville, Pa., assignor of thirty-five per cent to Fannie Ricci, West Fairview, and fifteen per cent to Sadie Magaro, Mechanicsburg, Pa.
Application October 12, 1951, Serial No. 250,986
2 Claims. (Cl. 42—70)



1. In combination with a gun stock having a recess opening to the butt end thereof and a shoulder plate mounted on said stock and spring urged to a position a predetermined distance from the butt end of said stock, locking means for the associated gun firing mechanism comprising a metallic block of cylindrical shape secured in said recess and having a bore extending longitudinally therethrough and a slot extending longitudinally thereof and from said bore to the surface of said block, a stem extending slidably through the bore of said block and having an annular shoulder intermediate its length, said stem being secured at one end to said shoulder plate and being adapted for connection at its other end to locking elements associated with the firing mechanism, and a latch dog disposed in said slot and pivotally connected near one

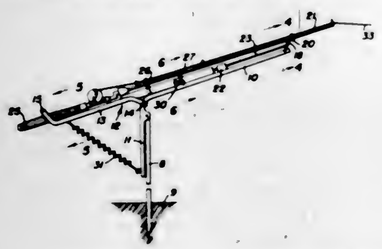
end to said block for swinging movements relative to the block, said latch dog having thereon a formation engaging the annular shoulder on said stem and holding said stem against longitudinal movement relative to said block in a direction to release the associated firing mechanism whenever the gun is in an inverted or stock down position and releasing said stem whenever the gun is in a firing position.

2,661,562
TRAWLING OTTER
Charles Dennistoun Burney, London, England, assignor to Fresh Frozen Foods Ltd., London, England
Application September 8, 1948, Serial No. 48,252
Claims priority, application Great Britain September 18, 1947
8 Claims. (Cl. 43—9)



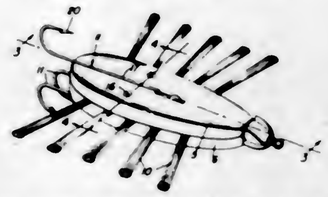
1. A trawling otter comprising a buoyant body of streamline form, and a vane member mounted on the body and depending therefrom, the vane member being inclined obliquely to the longitudinal axis of said body and including weight means whereby when the otter is immersed in water it assumes a position with said vane inclined to the vertical and horizontal planes, and a downward water thrust is produced thereby tending to drive the otter towards the sea bottom as it is towed through the water.

2,661,563
FISHING ROD HOLDER
Hermon L. Humphries and George D. Adams, Jr., Gotebo, Okla.; said Adams assignor to E. H. McDonald, Oklahoma City, Okla.
Application December 17, 1951, Serial No. 262,092
4 Claims. (Cl. 43—16)



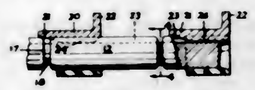
1. In a fishing rod holder including a support, a rack pivotally mounted at an intermediate point, for swinging movement in a vertical plane on the support, means for securing a fishing rod in position on said rack, a spring connected to one end portion of the rack and to said support for actuating said rack in a direction to elevate the forward end of the rod, and means operable by the rod and engageable with the other end of the rack for releasably securing said rack against actuation by the spring, the last named means including a bracket pivotally mounted on said support and including a substantially U-shaped portion for the reception of the rod, and a trigger slidably mounted on the support and pivotally connected to the bracket for actuation thereby, said trigger being engageable with said other end of the rack for securing the same against swinging movement on said support.

2,661,564
FISHING LURE
Carl F. Weigandt, Oakville, Tenn., assignor of forty-nine per cent to Wylie E. Turner, Jr., Piggott, Ark.
Original application September 8, 1949, Serial No. 114,545. Divided and this application May 17, 1951, Serial No. 226,876
1 Claim. (Cl. 43—42.26)



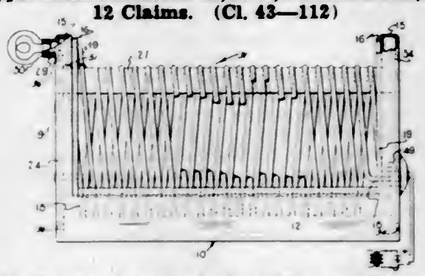
An artificial bait comprising a body including a pair of oblong flat faced sections opposed with flat faces confronting, at least one of said faces having transverse grooves therein inclining from the longitudinal center of the section toward one end of the section to the sides of said body, said section being provided with other transverse grooves in the face thereof inclining from said longitudinal center toward the other end of said body to the sides of said body, flexible lure elements positioned in said grooves to extend beyond opposite sides of said body at the same inclination as said grooves, and hooks having shanks extending along the outer sides of the body and provided with angular ends extending transversely into said body from one side thereof intermediate two of said grooves with nuts threaded thereon and countersunk in the opposite side of the body.

2,661,565
ANGLER'S FLY BOX
Leonard Hatton Jackson, Leamington Spa, England
Application May 27, 1952, Serial No. 290,198
4 Claims. (Cl. 43—57.5)



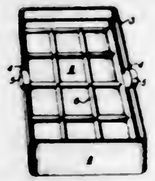
1. An angler's fly box having secured to it a transverse bar with a peripheral groove of a size to be embraced with clearance by the curved portion of a fly hook, in combination with a sleeve-like member frictionally mounted on the bar for axial sliding, said member having an end projection which in one axial position of said member will bridge said groove in order to retain in said groove the curved end of any fly hook which may have been placed in said groove, whilst the fly hook can be removed in another axial position of said member in which said projection is clear of said groove.

2,661,566
INSECT ELECTROCUTING APPLIANCE
Edward Sokolik, New Brighton, Minn.
Application December 16, 1950, Serial No. 201,184
12 Claims. (Cl. 43—112)



11. In an insect electrocuting appliance, a frame, an electrocuting grid provided with means for connecting said grid to an electrical source, disposed in and carried by said frame, said grid including a pair of superposed girders of dielectrical material, a pair of flexible electrical conductors carrying opposed electrical currents, wound as spiraled strands around the girders and said means for connecting the grid to an electrical source including indicating light means, means for limiting the voltage, and circuit connections for said light means and means for limiting the voltage.

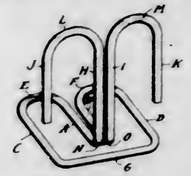
2,661,567
SOAP CASE
Walter Olivier Paege, Madrid, Spain
Application May 26, 1951, Serial No. 228,437
Claims priority, application Spain June 30, 1950
3 Claims. (Cl. 45—28)



1. A soap-case comprising a receptacle having an upstanding side wall extending around the periphery thereof, a cover formed with a depending side wall extending around the periphery thereof and formed to telescope over said side wall of the receptacle, said side walls of the receptacle and cover having registering cutouts opening at the upper and lower edges thereof, respectively, said cutouts being dimensioned so that, with said side walls in telescoped relationship, portions of said cutouts overlap to define openings through the sides of the soap-case and said cutouts in said side wall of the cover expose substantial portions of said side wall of the receptacle below the cutouts in the latter, and a perforated false bottom fitting removably in said receptacle and having lugs projecting laterally therefrom to extend through said openings defined by the overlapping portions of the cutouts.

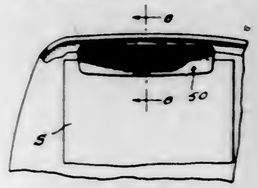
2,661,568
BOOKHOLDER
Nathan I. Stark, West Orange, N. J.; Dorothy Stark, administratrix of said Nathan I. Stark, deceased
Application August 27, 1948, Serial No. 46,379
5 Claims. (Cl. 45—57)

1. A book-holder comprising an integral piece of flat-wire bent edgewise near the middle in substantially one plane to form a major loop having substantially parallel sides, said flat-wire having both its ends further bent edgewise inwardly in the same plane to form two inward loops that are integral and parallel with the sides of said major



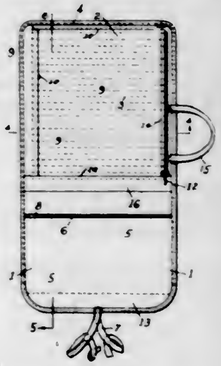
loop; said ends being further bent at an angle out of the plane of the major loop to provide a pair of side-by-side supports, each incorporating a loop in the plane of said supports and lying generally in a plane transverse to the plane of said major loop.

2,661,569
BOOK HOLDER AND DESK TOP
William James Bargen, Waukegan, Ill.
Application September 7, 1951, Serial No. 245,516
2 Claims. (Cl. 45—61)



1. A paper holder for holding paper on a flat inclined surface comprising an elongated plate, a serrated cushion member fixed to one face of said plate, and a flange projecting from one longitudinal edge of said plate beyond the face of said cushion member for engagement with the upper edge of said inclined surface.

2,661,570
ROLL UP MAP CASE
Gale C. Corley, Valparaiso, Ind.
Application June 14, 1951, Serial No. 231,637
1 Claim. (Cl. 45—131)



A rollup carrying case for maps or the like including in combination, first, second and third flexible layers positioned one above the other to

form a thin structure, said first and second layers including rectangular base portions and flap portions, a plurality of parallel reinforcing slats positioned between said base portions of said first and second layers in spaced apart relation to each other, said base portions of said first and second layers being secured together to hold the same in position so that a relatively rigid table-like unit is formed for supporting maps or the like, said third layer forming a cover over said table-like unit and including a transparent sheet and a binding about the edges thereof secured to the upper side of said sheet, said transparent sheet being adapted to be in direct contact with said second layer over substantially the entire area of said transparent sheet, means for permanently securing the edges of said base portions of said first and second layers and the edges of said binding of said third layer directly together to provide a unitary structure including a rectangular enclosure above said table-like unit for carrying maps or the like, said binding along one side of said transparent sheet including detachable closure means of flat configuration extending in the plane of said third layer to provide an opening into said enclosure, the edges of said flap portions of said first and second layers being secured together to form a protecting flap for said base when said case is rolled up, one of said flat portions including therein detachable closure means of flat configuration and extending in the plane of said flap portions providing an opening into the pocket formed between said flap portions of said first and second layers, said entire case forming a relatively thin structure adapted to be rolled up in the form of a cylinder, and means for securing said base and said flap in rolled-up condition.

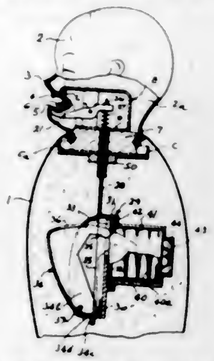
2,661,571
TOY BOAT
Raoul Ramsay, Cut Knife, Saskatchewan, Canada
Application September 29, 1950, Serial No. 187,468
5 Claims. (Cl. 46—95)



1. A toy boat comprising a hull having a pair of parallel longitudinal passages in communication at one end, a spring actuated piston mounted to reciprocate in one of said passages, the other passage being open at the rear end of said hull, means for retracting said piston, and means for introducing liquid into said passages, said piston when released operating to expel the liquid from said passages.

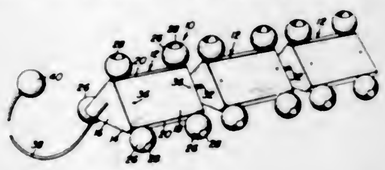
2,661,572
CHANGEABLE FEATURE DOLL
Edmund W. Baggott, New York, N. Y., assignor to Ideal Toy Corporation, a corporation of New York
Application August 15, 1950, Serial No. 179,419
3 Claims. (Cl. 46—120)

1. A doll comprising a hollow, compressible, vertically extending body which has a top opening, a hollow head which has a bottom opening and which extends into the top opening of said body, the front wall of said head having a flexible and resilient and re-entrant wall portion, means securing said head to said body so that said head is turnable relative to said body about a vertical axis, said securing means including a rigid neck-insert positioned within said bottom opening of said head and also within said top opening of said body, the peripheral side wall of said insert being fixed to the peripheral side wall of the head opening, said neck-insert having a vertical and axial aperture, a head lever turnably mounted in said head, a support, means substantially fixedly mounting said support within said body, a body member mounted on said support movable and in a fixed path relative thereto, a wire extending through said aperture and extending substantially vertically and connected at



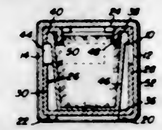
its respective ends to said head lever and said body member, said head lever having a portion adapted to engage said re-entrant wall, said body member having a portion accessible by squeezing of a selected portion of said body to manipulate said body member and hence said wire and said head lever, whereby said head lever engages and moves said re-entrant wall, said wire being twistable about its axis so that said head and said neck-insert can be turned around a vertical axis relative to said body while twisting said wire and while maintaining said body member movable relative to said support in said fixed path.

2,661,573
ARTICULATED WHEELED PULL TOY
William B. Onley, Jr., Owensboro, Ky., assignor of fifty per cent to William N. Larson, Sr., Evansville, Ind.
Application November 27, 1950, Serial No. 197,693
1 Claim. (Cl. 46—201)



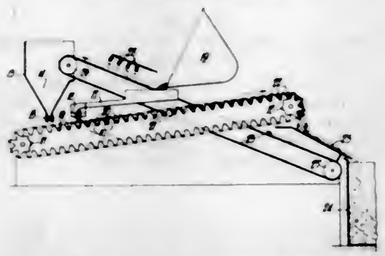
An articulated pull toy comprising, a series of elongated bodies of substantially triangular transverse section, a flexible element connected to one of said bodies for pulling the toy, a plurality of substantially spherical rollers journaled radially at longitudinally spaced points on the angles of said bodies, and flexible means rotatably connecting the bodies in spaced relation to each other, said bodies having longitudinal sockets in their end portions, said means including bead chains having their end portions engaged in the sockets, and pins in the bodies engaged transversely between the beads of the chains for anchoring said chains in the sockets.

2,661,574
POTTED PLANT PACKAGE
Alexander S. Ritter, Brielle, N. J.
Application November 28, 1950, Serial No. 197,925
1 Claim. (Cl. 47—37)



A plant package comprising inner and outer containers enclosing a plurality of potted plants, said inner container being channel-shaped in cross-section and including a bottom wall, side walls integrally connected to said bottom wall along side edges thereof, said side walls having upper edges, integral flanges carried by said side walls at said upper edges in coplanar inwardly extending opposed relation, longitudinally spaced tongues struck from said side walls and extending laterally into said inner container and spacing adjacent pots in said inner container from each other, the tongues of one side wall being alternated with the tongues of the other side wall, and longitudinally spaced tabs struck downwardly from said flanges and entering pots in said inner container and being embedded in soil carried therein, the tabs of one flange being disposed opposite the tabs of the other flange whereby said tabs are arranged in laterally spaced pairs, the tabs of each pair being arcuate in lateral cross-section to conform to the arcuate shape of the pot and with their concaved faces in opposed relation, each pair of tabs being disposed intermediate an adjacent pair of tongues, said outer container being received over said inner container and closing the space between said upper edges of said side walls.

2,661,575
APPARATUS FOR FLUFFING SLAG
Truman H. Kennedy, Elizabeth Township, Allegheny County, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application October 26, 1950, Serial No. 192,324
1 Claim. (Cl. 49—1)



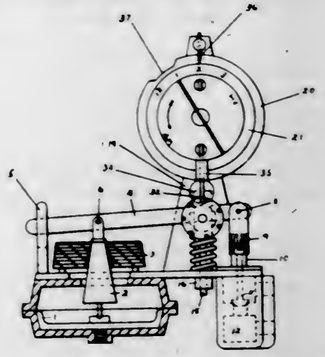
In an apparatus for making fluffed slag, the combination with a chain-bucket conveyor, of a hopper for discharging wet slag fines into the conveyor buckets successively, means for continuously discharging molten slag into the buckets successively at a point beyond the hopper in the direction of bucket travel, a screen below the conveyor at the discharge end thereof adapted to receive fluffed slag falling from the buckets as they turn over successively, a return conveyor extending from below said screen to said hopper and means for wetting the slag fines which pass through the screen and fall on the return conveyor, as they approach the hopper.

2,661,576
MACHINE FOR HOLDING AND SEALING COAXIALLY SUPPORTED PARTS
Stanley J. Gartner, Emporium, Pa., assignor to Sylvania Electric Products, Inc., a corporation of Massachusetts
Application December 24, 1946, Serial No. 718,152
5 Claims. (Cl. 49—2)



3. An arrangement for holding a pair of parts in coaxial arrangement one under the other including a first chuck for holding one of said parts, a second chuck for holding the other of said parts, said second chuck being mounted coaxially beneath said first chuck and having arms adapted to embrace said first chuck and grasp said other part above said first chuck and means for shifting one chuck axially with respect to the other to a position such that said first chuck protrudes above the jaws of said second chuck.

2,661,577
AUTOMATIC PRESSURE CHANGER FOR GAS REGULATORS
Thomas A. Hanson, Woodstock, Ontario, Canada
Application July 20, 1950, Serial No. 174,892
3 Claims. (Cl. 50—11)



1. A combination comprising a valve to control the pressure of gas in the controlling chamber of a regulator, a valve actuating diaphragm operative by pressure from the outlet side of said regulator, a stack of disc form weights conically bored through the center, a cone, mounted upon the diaphragm, and so formed as to be able to pick up or set down the disc weights consecutively as pressure under the diaphragm is altered, a lever which links the cone to the valve, and

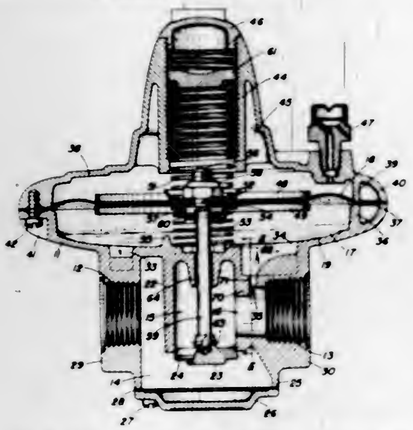
which is pivoted upon a movable member, a cam follower roller mounted upon said member, a spring tending to move said movable member and arranged to keep said follower roller in contact with a cam, said cam being of disc form and having formed upon it peripheral indents for the purpose of allowing the movable member to be moved in a valve opening direction through the medium of the spring when the follower roller enters an indent, and a clock to rotate the cam.

2,661,578

FLUID PRESSURE REGULATOR

Fritz Niesemann, Pittsburgh, Pa., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 6, 1947, Serial No. 732,765
3 Claims. (Cl. 50—23)



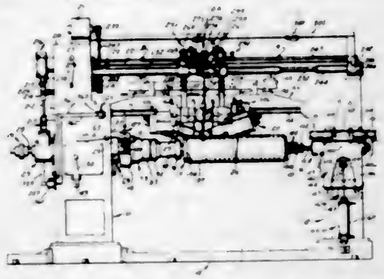
1. In a fluid pressure regulator comprising a body having a fluid passage formed therethrough between an inlet and an outlet, a diaphragm chamber wall mounted on the exterior thereof, an aperture therethrough extending from said passage through said wall, and a valve seat interposed in said passage between said inlet and said outlet coaxial with said aperture; a diaphragm peripherally clamped over said diaphragm chamber wall to form a diaphragm chamber; a pair of diaphragm clamping elements centrally disposed on opposite sides of said diaphragm, interconnected therethrough, and so constructed that relative rotary manipulation thereof will effect their connective engagement or disengagement, the one of said clamping elements on the side of said diaphragm adjacent said wall being practicably inaccessible so long as the diaphragm is in its operative position on said one clamping element; a valve stem pivotally suspended from said one clamping element and extending freely through said aperture toward said valve seat; and a valve member pivotally suspended from the free end of said valve stem below said valve seat for cooperation therewith to control the flow of fluid through said passage, the connection between said valve and valve stem being practicably inaccessible so long as said valve stem is connected to said one clamping element; means for facilitating the manipulation of said clamping elements to permit removal and attachment of said diaphragm without damage comprising means defining a non-circular recess in said wall around said aperture and a similarly non-circular portion formed on the adjacent end of said one clamping element so that, by movement of said one element to engage said recess, said one element will be held against rotary and axial movement to permit manipulation of the other of said elements to effect connective engagement or disengagement thereof for mounting and demounting said diaphragm.

2,661,579

BELT DRESSING AND CUTTING DEVICE

Edmund J. Lomazzo, Norwalk, and Lloyd E. Maquat, Easton, Conn., assignors, by mesne assignments, to The Dayton Rubber Company, Dayton, Ohio, a corporation of Ohio

Application September 6, 1949, Serial No. 114,154
31 Claims. (Cl. 51—5)



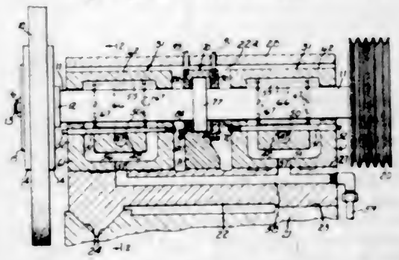
1. In a belt cutting machine, an expansible and collapsible mandrel, means mounting said mandrel for rotation about its longitudinal axis, power means for rotating said mandrel, a resilient cushioning sleeve positioned on said mandrel, said mandrel with said cushioning sleeve being adapted to have a cylinder of belt stock placed thereover, means for expanding said mandrel against said cushioning sleeve thereby expanding said sleeve against the cylinder of belt stock, means for dressing the expanded sleeve to a true externally cylindrical shape prior to the positioning thereon of said belt stock, a cutter, means for indexing said cutter along said mandrel, and means to move the cutter toward the mandrel to cut belt stock positioned on said sleeve and to then move the cutter back clear of said stock for the next indexing operation.

2,661,580

HYDRAULIC THRUST BEARING AND RECIPROCATOR FOR SHAFTS

George Crompton, Jr., Framingham Centre, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application October 5, 1950, Serial No. 188,632
10 Claims. (Cl. 51—34)



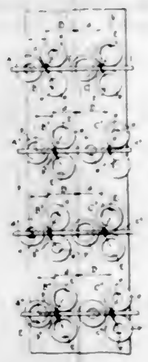
1. In apparatus of the class described, a spindle or shaft, means journalling said spindle or shaft for rotation about its axis, a piston mechanically connected to said shaft, a cylinder having end walls around said piston there being a clearance between said piston and said cylinder so that they do not touch each other, means operatively connected to the cylinder for supplying hydraulic fluid under pressure to the cylinder space on one side of said piston, a pressure chamber in the end wall of the cylinder on the other side, means operatively connected to the cylinder for supplying hydraulic fluid under pressure to said pressure chamber, at least one exhaust chamber in said end wall adjacent said pressure chamber whereby the piston is forced to near the end wall on said other side by the preponderance of the pressure on the one side due to the fluid being free to escape through the exhaust chamber on the other side until the piston restricts such escape whereupon the forces are balanced and the piston is held in position without mechanical contact, means operatively connected to the cylinder for pumping extra hydraulic fluid into said cylinder space and withdrawing it therefrom, and means operatively connected to the cylinder for pumping extra hydraulic fluid into said pressure chamber and withdrawing it therefrom, said pumping means being operable in opposite phase whereby to reciprocate the piston and also the spindle or shaft.

2,661,581

APPARATUS AND METHOD FOR SURFACING GLASS SHEETS AND PLATES

Philippe Tommy Martin, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques De Saint-Gobain, Chauny & Cirey, Paris, France, a corporation

Application July 18, 1947, Serial No. 761,937
In France August 10, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires August 10, 1964
30 Claims. (Cl. 51—110)



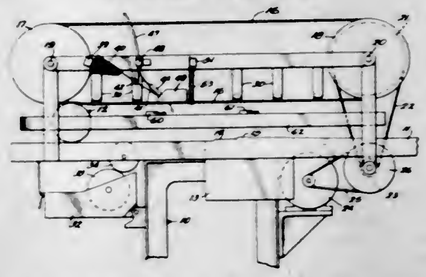
1. In apparatus for the surfacing of glass sheets or plates, the combination of a bed for the glass sheet to be surfaced, said bed being adapted to travel in a rectilinear path during said surfacing, a frame mounted above the bed and revoluble about an axis displaced from the longitudinal center line of said bed, another frame mounted above the bed and revoluble about an axis displaced oppositely from that of the first named frame and at a distance varying from that of the axis of the first named frame from said center line, and a plurality of annular polishing heads provided with radial glass working surfaces of uniform diameter carried by said frames and revoluble about axes equidistant from the axes of the frames and located to move each head seriatim in the revolution of the frames partially beyond the longitudinal edges of the glass sheet supported by said bed.

2,661,582

TEAR-CORD APPLYING MACHINE AND METHOD

William F. Hanser, Cedar Rapids, Iowa, assignor to National Oats Company, Cedar Rapids, Iowa, a corporation of Illinois

Application December 15, 1951, Serial No. 261,879
13 Claims. (Cl. 53—5)



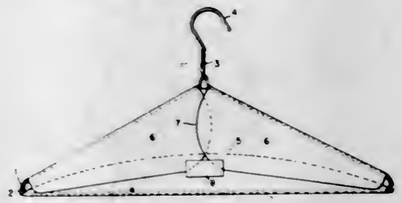
1. In wrapping and filament-attaching apparatus, a frame, a track carried thereby for supporting a cylindrical container, means for applying adhesive to the container, means for supporting a wrapper adjacent said track for engagement with said container, a tube communicating with a source of compressed air and having an open end directed for discharging an air stream in front of the container, a filament supported adjacent said tube and having a free end portion engaged by said air stream, and means for rotating said container into engagement with said filament and said wrapper to wrap the filament about the container and the wrapper about the filament and container.

2,661,583

MACHINE FOR WRAPPING GARMENT HANGERS

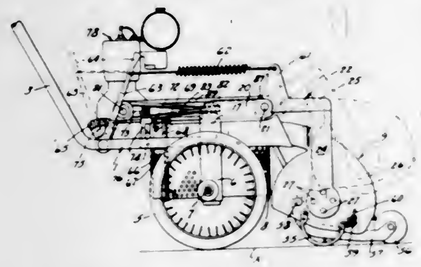
Harry M. Simmons and Robert M. Simmons, Cleveland, Ohio, assignors to Cleaners Hanger Company, Detroit, Mich., a corporation of Michigan

Application January 12, 1951, Serial No. 205,818
25 Claims. (Cl. 53—25)



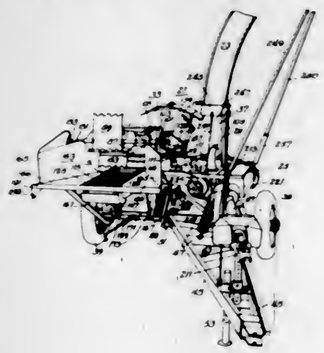
1. A machine for wrapping garment hangers, comprising a wrapping table for receiving a cover of flexible sheet material and a superposed substantially triangular garment hanger, said cover having three flaps to be folded over the sides of the hanger, mechanism for folding the flaps over the hanger in substantial unison, means for maintaining substantially definite positions of the hanger on the cover and of the cover on the table during such folding, means for sealing the flaps in their folded positions, and means for relatively timing the folding and sealing operations.

2,661,584
MOBILE LEAF GATHERING, COMMINUTING, AND REDISTRIBUTING MACHINE
Jacob A. Ronning, Minneapolis, Minn.
Application March 15, 1948, Serial No. 14,905
11 Claims. (Cl. 55—118)



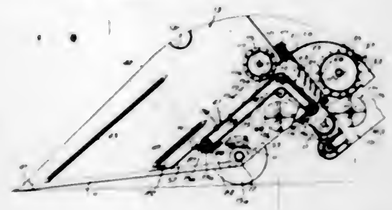
1. In a leaf gathering, comminuting and redistributing machine, a frame member, a pair of axially aligned ground wheels rotatably supported on the frame member, a comminutor housing rigidly supported by the frame member and having an inlet opening in a wall thereof, a sweeper housing pivotally connected to said frame member on an axis parallel to the common axis of said ground wheels and disposed intermediate said housings, said sweeper housing having a discharge opening in a wall thereof in communication with said inlet opening in said comminutor housing, a sweeper rotor rotatably supported in said sweeper housing, and common drive means for the comminutor rotor and sweeper rotor, said drive means comprising a driven shaft disposed in said axis.

2,661,585
FIELD FORAGE HARVESTER
Charles W. Hansen, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application June 29, 1946, Serial No. 680,447
12 Claims. (Cl. 56—16)



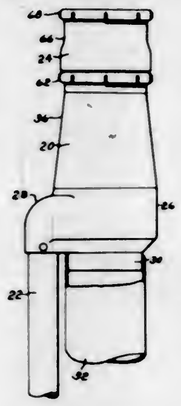
1. In a harvester of the class described which is intended particularly for the harvesting of row crops and which is adapted to be drawn by, and powered from, a tractor, a power-operated crop cutting and blower type delivery unit, which includes a main frame and a pair of spaced-apart support wheels journalled on said frame, a crop collecting and feeding unit adapted to be carried by said main frame and to cooperate with said crop cutting and delivery unit, said crop cutting and delivery unit including a power takeoff shaft for delivering power from said tractor thereto, a housing supported on said main frame and having crop inlet and cut crop discharge openings, cutter and blower means supported for rotation within said housing, and means for moving the crop to be cut into said housing, said means including a pair of feed rolls supported by said main frame and driven from said power takeoff shaft, said crop collecting and feeding unit being operable to cut a row crop and to feed such crop to said feed rolls, said crop collecting and feeding unit including spaced-apart side members which define a stalkway, at least one chain rake disposed along said stalkway for feeding cut stalks therealong, a crop cutting means located in said stalkway, a slat type chain conveyor which conducts the cut crop from said stalkway to said feed rolls, and drive means for said chain rake and said slat conveyor comprising at least one drive chain operatively connected with said slat conveyor and supported at the rearward end thereof by a first shaft and sprocket which are driven from said power take-off shaft, a second shaft and supporting sprocket engaging the forward end of said drive chain, a generally vertically extending shaft and sprocket arrangement drivingly supporting the rearward end of said chain rake, and a pair of crown gears, one of which is keyed to said second shaft and the other of which is keyed to said generally vertical shaft, disposed for meshing engagement to transmit driving power therebetween.

2,661,586
CORN HARVESTER
Norman R. Krause and Sherman C. Heth, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application June 9, 1948, Serial No. 31,956
9 Claims. (Cl. 56—66)



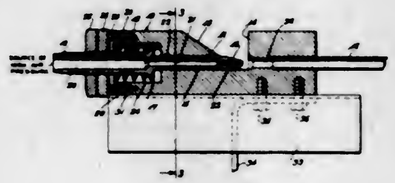
1. In combination in a corn harvester of the class described which includes a frame and cutting means for severing the ear-bearing stalks of corn, a plurality of cooperating, generally vertically extending snapping rolls having upper snapping portions for removing ears from the stalks and lower husking portions for removing husks from the ears, said rolls being supported on said frame at a point spaced from said stalk severing means, and an endless conveyor for moving the severed stalks away from said cutting means to said snapping rolls, said endless conveyor including a generally upwardly moving section which extends from a point adjacent said cutting means to a point adjacent the upper portions of said rolls and a downwardly moving section which extends downwardly along the lower portions of said rolls, means supporting said downwardly moving section, and resilient means biasing said supporting means and said downwardly moving section toward said lower roll-portions.

2,661,587
FRUIT PICKING APPARATUS
Giles E. Bullock, Rochester, N. Y.
Application January 3, 1952, Serial No. 264,766
12 Claims. (Cl. 56—324)



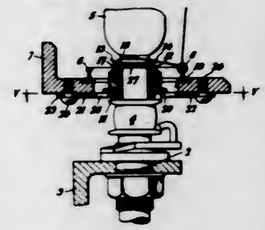
1. In a fruit picking device, a hollow picking head having a fruit-receiving end, means mounted upon the head adjacent the receiving end for gripping the stem of a fruit to be picked, means within the head responsive to the passage of a fruit into said head for initially causing said gripping means to grip the stem of said fruit, and differential pressure means disposed within said head for pulling said fruit against said gripped stem.

2,661,588
THREAD COLLECTOR
Ernest J. Griset, Jr., and Ridgeway T. Lynch, Asheville, N. C., assignors to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application July 19, 1951, Serial No. 237,526
4 Claims. (Cl. 57—34.5)



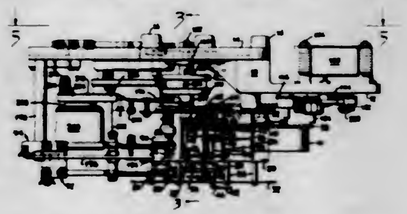
1. A portable, light-weight suction device for temporarily collecting a running thread which comprises a housing, a notch in said housing having two opposite defining walls and forming a wedge-shaped opening for guiding a thread, one of said walls having a bore therein, a jet projecting through the other wall in axial alignment with the bore in the said first wall but spaced therefrom a small distance, means to supply air under high pressure to said jet thereby creating a reduced pressure zone near the bottom of the notch in the region of the jet tip whereby when thread is brought to the bottom of the notch, it is engaged by the air stream and propelled through the bore.

2,661,589
DOFFING MECHANISM FOR RING SPINNING, DOUBLING, AND TWISTING MACHINES
James Jackson Haythornthwaite, Accrington, England, assignor to T. M. M. (Research) Limited, Helmshore, Rossendale, England
Application April 24, 1951, Serial No. 222,587
Claims priority, application Great Britain April 26, 1950
5 Claims. (Cl. 57—52)



1. A ring spinning, doubling or twisting unit, comprising relatively reciprocable ring and spindle rails, a spindle supported by the spindle rail, a package carrier member detachably mounted on the spindle with capability of relative axial movement and providing a seating for a yarn package, said carrier member including means for catching the yarn or thread at the base of the package so as to hold the same taut when the reciprocatory element of the unit has reached a doffing position in which the spindle is caused to project to the maximum extent above the ring rail, means for severing the tautened yarn or thread, and interceptor means for retaining said carrier member with the ring rail and thereby separating it from the spindle during an ensuing relative separation of the spindle and the ring rail, such that the yarn package is supported with freedom for doffing.

2,661,590
MASTER CLOCK
Reynold B. Johnson and Edward F. Geiger, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application January 7, 1948, Serial No. 990
4 Claims. (Cl. 58—26)



3. In a clock system, a source of alternating current supply, a synchronous motor rotating in timed relationship with said source, a differential assembly including a pair of input elements and an output element whose movements are a differential function of said input elements, means operatively connecting said synchronous motor to one of said input elements in driving relationship, a spring driven clock escapement mechanism including a driven shaft operatively connected to the other input element of the differential assembly in driving relationship for driving the latter in a direction whose effect on the output element

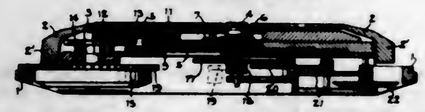
is opposed to the effect of said first input element, a regulating member for said clock escapement mechanism operatively connected thereto and movable from an advanced position to a retracted position for progressively lengthening the natural period of said escapement mechanism and movable in the other direction to shorten said period, the natural period of said escapement mechanism within its limits of adjustment by the regulating member being such as to cause said input elements to be driven at respective rates of speed closely approaching or equaling each other, regulating member driving means for adjusting said regulating member in accordance with the movements of the output element of said differential assembly, a slip clutch comprising a friction spring interposed between a stationary frame plate and said regulating member driving means adapted to provide both a yielding connection between said clock escapement mechanism and said synchronous motor at any time the clock escapement mechanism should become inoperative and also a driving connection between said output element of the differential assembly and said driving means for the regulating member at all times during simultaneous operation of both said clock escapement mechanism and said synchronous motor whereby the natural period of said escapement mechanism is regulated by the rate of speed of said synchronous motor under the control of said source of current supply, during simultaneous operation of the escapement mechanism and the motor.

2,661,591

WATCH MOVEMENT HAVING AN AUTOMATIC WINDING MECHANISM

Henri Thiébaud, Biel, Switzerland, assignor to The Gruen Watch Co., Cincinnati, Ohio, a corporation of Ohio

Application December 2, 1950, Serial No. 198,817
1 Claim. (Cl. 58—82)



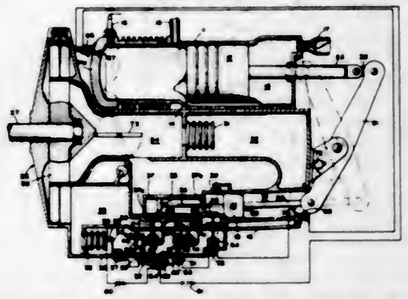
In a watch movement having an automatic winding mechanism, an oblong movement plate, an oscillating weight pivotally mounted in the center of the movement plate, said weight being substantially semicircular in outline and having a flat upper surface on the central portion thereof and a peripheral rim portion substantially thicker than the central portion which rim depends to a plane below the plane of the central portion, said weight having a path of oscillation which at its periphery substantially coincides with the outer edges of the movement plate at the narrow dimension thereof but is substantially within the outer edges of the movement plate at its greater dimension, a main spring barrel mounted in the movement plate in a plane beneath the path of oscillation of the peripheral rim portion of the weight, a train of wheels interconnecting the oscillating weight and the main spring barrel, said wheels disposed within the path of movement of said oscillating weight and regulating means including an escapement wheel and a balance wheel mounted in the movement plate in a plane beneath the path of oscillation of the peripheral rim portion of the weight, said main spring barrel and said escapement wheel each having a portion extending into the end portions of the movement plate which are beyond the path of oscillation of the weight.

2,661,592

HYDRAULIC DRIVE INTERNAL-COMBUSTION ENGINE

Cooper B. Bright, United States Navy

Application September 17, 1951, Serial No. 247,013
12 Claims. (Cl. 60—18)
(Granted under Title 35, U. S. Code (1952), sec. 266)



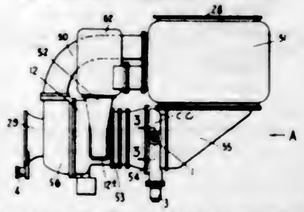
1. A power plant comprising an engine having a power stroke and a compression stroke, a closed fluid system having a low-pressure chamber and a high-pressure chamber, pump means connected to said engine for driving said fluid from the low-pressure chamber to the high-pressure chamber, said pump means being operated on its delivery stroke by said engine on its power stroke and means operable by said high-pressure fluid for repeatedly driving said engine during its compression stroke, said means including a cylinder having a plunger slidably mounted therein, said plunger being operatively connected to said pump means for movement therewith, and conduit means connecting one end of said cylinder with said high-pressure chamber.

2,661,593

MOUNTING OF GAS TURBINE UNITS

John Oliver Philip Hughes and Paul Heinz Walter Wolff, Rugby, England, assignors to The English Electric Company Limited, London, England, a British company

Application September 2, 1949, Serial No. 113,883
Claims priority, application Great Britain September 8, 1948
6 Claims. (Cl. 60—39.31)



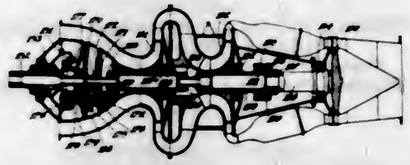
3. For a gas turbine plant including at least one turbine and the compressor therefor forming a rigid unit, a mounting comprising in combination: brackets attached to the said rigid unit substantially in the same plane perpendicular to the axis and adjacent to the centre of gravity thereof, engine bearers having a heat conductive path of a reduced cross section area of metal available from the said brackets through the said engine bearers, cooling means cooling the said engine bearers, and metal bonded rubber bushings attached to the said engine bearers and supporting the said rigid unit in the said plant, the said reduced heat conductive cross section area and the said cooling means providing a minimum of conduction of heat to the said rubber bushings.

2,661,594

COAXIAL COMBUSTION PRODUCTS GENERATOR, TURBINE, AND COMPRESSORS

James Alexander Petrie, Littleover, England, assignor to Rolls-Royce Limited, Derby, England, a British company

Original application October 20, 1949, Serial No. 122,440, now Patent No. 2,625,790, dated January 20, 1953. Divided and this application August 11, 1952, Serial No. 303,703
Claims priority, application Great Britain October 28, 1948
2 Claims. (Cl. 60—39.37)



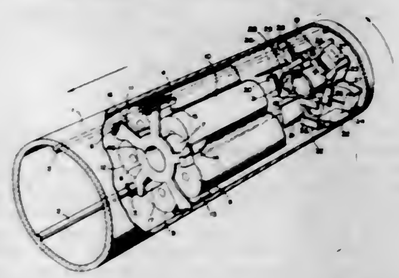
1. A gas-turbine engine comprising a first compressor casing having an inlet and outlet; a first compressor rotor in said first compressor casing and on which when in operation, a first axial load is generated; a first compressor shaft on which said first compressor rotor is mounted for rotation therewith and to which said first axial load is transmitted; a second compressor casing having an inlet and an outlet; ducting from the outlet of said first compressor casing to the inlet of said second compressor casing, a second compressor rotor in said second compressor casing coaxial with said first compressor rotor and on which, when in operation, a second axial load in the same direction as said first axial load is generated; a second compressor shaft on which said second compressor rotor is mounted for rotation therewith and to which said second axial load is transmitted; a turbine casing having an inlet and an outlet; ducting from the outlet of said second compressor casing to the inlet of said turbine casing and including heating means; a turbine rotor in said turbine casing, coaxial with said first and second compressor rotors and on which when in operation a third axial load in the opposite direction to said first and second axial loads is generated; a turbine shaft on which said turbine rotor is mounted for rotation therewith and to which said third axial load is transmitted; a first pair of sets of interengaging helical splines, the one on said second compressor shaft and the other on said turbine shaft, whereby torque can be transmitted from said turbine shaft to said second compressor shaft and whereof the helix lead on said turbine shaft is in the same sense as the direction of rotation so that when torque is so transmitted a fourth axial load is generated in said turbine shaft opposing said third axial load and so that a fifth axial load is generated in said second compressor shaft opposing said second axial load; a second pair of sets of interengaging helical splines, the one on said first compressor shaft and the other on said second compressor shaft, whereby torque can be transmitted from said second compressor shaft to said first compressor shaft and whereof the helix lead on said second compressor shaft is in the same sense as the direction of rotation so that when torque is so transmitted a sixth axial load is generated in said first compressor shaft opposing said first axial load; a first locating thrust bearing for said first compressor shaft; a second locating thrust bearing for said second compressor shaft; and a third locating thrust bearing for said turbine shaft.

2,661,595

HOLDER ASSEMBLY FOR THE PROPELLENT CHARGES IN ROCKET MOTORS

Nils-Erik Gustaf Küller, Karlskoga, and Karl-John Thorild Thorildsson, Bofors, Sweden, assignors to Aktiebolaget Bofors, Bofors, Sweden, a corporation of Sweden

Application March 19, 1952, Serial No. 277,346
9 Claims. (Cl. 60—39.47)



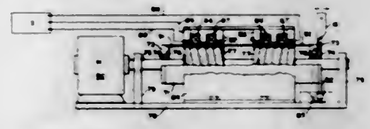
1. A holder assembly for positioning bar-shaped propellent charges in a rotating rocket motor, the said assembly comprising a motor chamber, a retaining member for each charge to be placed in the motor chamber extending parallel to a charge therein and secured against displacement relative to the periphery of the wall of the motor chamber so as to form together with said wall a pocket preventing a peripheral movement of the respective charge relative to the motor chamber, abutment means fixedly mounted within the motor chamber and forming an abutment for one end of charges placed in the motor chamber thereby preventing an axial displacement of the charges in the direction of the abutment means, and driving means disposed within the motor chamber juxtaposedly to the other end of charges placed in the motor chamber and mounted axially slidable for pressing the charges toward the abutment means in response to a force tending to move the driving means toward the abutment means.

2,661,596

FIELD CONTROLLED HYDRAULIC DEVICE

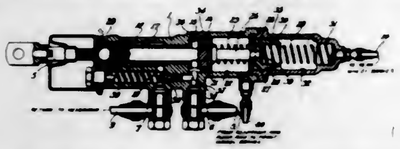
Willis M. Winslow, Wheatridge, Colo., assignor to Wefco Inc., Denver, Colo., a corporation of Colorado

Application January 28, 1950, Serial No. 141,022
19 Claims. (Cl. 60—52)



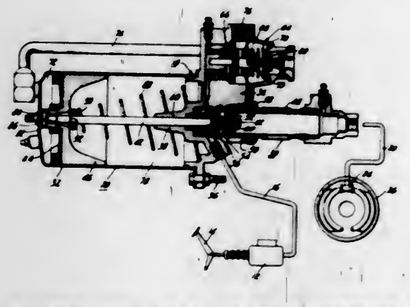
1. In a control device, means forming a passage, a fluid in said passage comprised of liquid and permanently suspended particles responding to the presence of a field across said passage to impart resistance to the flow of said fluid therein, means applying mechanical force tending to propel said fluid through said passage, means operatively associated with said passage to receive force from said fluid, and means applying a field across said passage to control the flow resistance of said fluid therethrough and thereby the force received by said last named means.

2,661,597
HYDRAULIC CONTROL DEVICE
Stanley Howard Edge, Lincoln, England, assignor to Clayton Dewandre Company Limited, Lincoln, England, a British company
Application August 2, 1950, Serial No. 177,224
10 Claims. (Cl. 60—52)



10. A hydraulic mechanism for controlling the brakes on an automobile vehicle, comprising a valve casing having first, second and third cylinders therein and outlets communicating respectively with the first and third cylinders and an inlet communicating with the second cylinder, a reservoir for hydraulic fluid, flow and return conduits connecting the inlet of the second cylinder and the outlet of the first cylinder respectively to the reservoir, a pump interposed in the flow conduit, a hollow cylindrical valve member movably mounted in said first cylinder and having an open end disposed in said cylinder, a pedal-operated piston movably mounted in said first cylinder and operative to close the open end of and to impart axial movement to said valve member, a second piston movable in the second cylinder and connected to said hollow valve member, said second piston having a portion of reduced diameter provided with inlet ports communicating with the interior of said hollow valve member and with the inlet of the second cylinder, a stem projecting from the second piston and having a valve member thereon, a third piston movable in the third cylinder and having a valve seat thereon engageable by the valve member on said stem, a connection from the flow conduit to the front wheel brake operating cylinders, and a closed hydraulic system connecting the outlet of said third cylinder with the rear wheel brake operating cylinders.

2,661,598
POWER UNIT FOR HYDRAULIC PRESSURE SYSTEMS
Thomas H. Thomas, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 16, 1950, Serial No. 144,443
7 Claims. (Cl. 60—54.6)



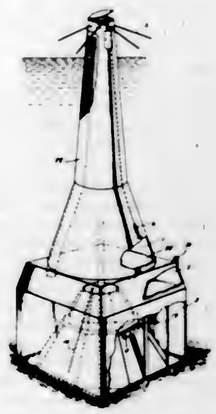
5. A power unit for a hydraulic pressure system comprising a power cylinder which has, at one end, an annular guide bearing, a power piston reciprocable in the power cylinder, said power piston having an axial recess, a hydraulic cylinder mounted on the end of the power cylinder having the guide bearing, a hydraulic piston reciprocable in the hydraulic cylinder, a thrust rod which transmits force from the power piston to the hydraulic piston and which is guided solely by the guide bearing, one end of said rod extending, with peripheral clearance, into the recess in the power piston to engage the end wall of said recess, and a spring in the power cylinder which acts on the rod to urge it and the power piston toward retracted position.

2,661,599
PNEUMATICALLY OPERATED WELDER HEAD CONSTRUCTION
Frank Fredrick Folmer, Detroit, Mich.
Application December 26, 1950, Serial No. 202,787
3 Claims. (Cl. 60—97)



1. In combination, a cylinder having a bore, said bore having an enlarged portion extending to one end of the cylinder and connected with the other portion of the bore by an annular, inwardly offset shoulder, a sleeve in said enlarged bore having one end abutting said shoulder and forming a transverse wall in said cylinder which divides the cylinder into two compartments, said sleeve being shorter in length than said enlarged bore, a bushing in said enlarged bore abutting the other end of said sleeve, means securing said bushing on said cylinder, a piston in each of said chambers, and a rod extending through said partition wall and connecting said pistons together for movement in unison.

2,661,600
UNDERWATER DRILLING DERRICK
George R. Hopkins, Silver Spring, Md.
Application December 31, 1947, Serial No. 795,105
10 Claims. (Cl. 61—46)



1. A structure for underwater drilling comprising a downwardly flaring concrete foundation element and a compartmented bottle-like structure having a centrally apertured downwardly flaring bottom formed to fit over and embrace said downwardly flaring foundation element, said compartmented structure having a flotation and balancing compartment positioned to surround said foundation element and having further emptiable ballasting compartments thereabove, said emptiable ballasting compartments affording working space within said structure after positioning of said bottle-like structure on the sea floor in embracing relation to said concrete foundation element.

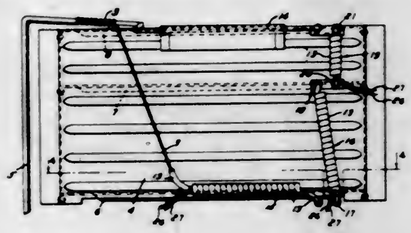
2,661,601
GAS REGULATOR
Charles W. Hart, Alhambra, Calif.
Application August 14, 1950, Serial No. 179,215
5 Claims. (Cl. 62—1)



1. In a gas regulator for use in the fuel induction system of an internal combustion engine, said regulator having a first chamber connected by conduit to a source of pressurized gaseous fuel and a second chamber adapted to be connected to a venturi in the engine's intake, the combination of a main valve in the inlet to said first chamber, a diaphragm between said first and second chambers, means connecting said diaphragm to said main valve operable to open said valve upon a decrease of pressure in said first chamber, a port between said first and second chambers, a recess in the wall of said first chamber opposite said port, a piston reciprocal in said recess having a valve face operable to close said port, restricted conduit means between said first chamber and said recess, a second diaphragm in said second chamber responsive to the difference between pressure therein and atmospheric pressure, a passage in said piston, a pilot valve in said recess having its stem extending through said passage and operably connected to said second diaphragm to open said passage upon a reduction of pressure in said second chamber, and means connecting said first diaphragm to said second diaphragm at positions of extreme movement of the latter whereby upon a sudden or extreme reduction of pressure in said second chamber said main valve is opened coincidentally with the movement of said pilot valve to open said passage and the movement of said piston to open said port as in normal operation on reduction of pressure in said second chamber, said piston and pilot valve closing said port and said passage respectively upon equalization of pressure in said recess and said first chamber.

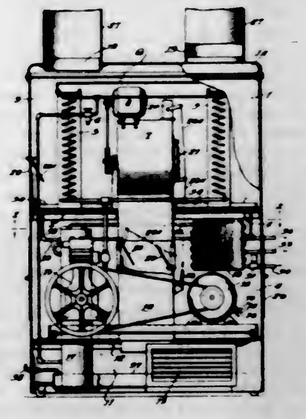
2,661,602
DEFROSTER FOR REFRIGERATOR EVAPORATORS
Donald J. Lanker, Lima, Ohio, assignor to Artkraft Manufacturing Corporation, Lima, Ohio, a corporation of Ohio
Application July 5, 1951, Serial No. 235,233
6 Claims. (Cl. 62—4)

1. In a refrigeration system of the type including an evaporator, a condenser, a fluid line connecting the condenser and the evaporator, and a restrictor in the fluid line between the condenser and evaporator, the fluid line leading into the evaporator from the restrictor being in the form of a helical coil, an electric motor driven compressor for compressing the refrigerant and circulating the refrigerant through the system and an electrical circuit for supplying current to said motor, a heating element positioned within said



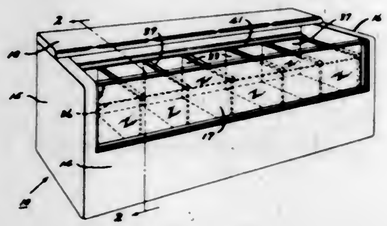
coil and in heat exchange relation therewith, a switch adapted to be connected into said electrical circuit to supply current simultaneously to said motor for running the same and current to said heating element to heat the same, said heater having sufficient capacity to convert the liquid refrigerant into a warm vapor whereby the heater overcomes the refrigeration effect and warms the gaseous refrigerant flowing through the evaporator sufficiently to defrost the evaporator.

2,661,603
VAULT CONDITIONER WITH CONTROL MEANS
Allen Trask, Chicago, Ill.
Application December 18, 1950, Serial No. 201,259
7 Claims. (Cl. 62—6)



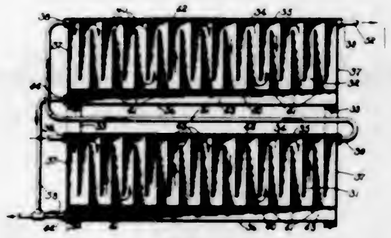
1. In a unitary machine for circulating air and controlling humidity within an enclosure, a housing for said machine, a condensing unit and an evaporator in said housing, an air inlet and an air outlet for said housing, a humidistat external of said housing, a double inlet blower in said housing a double inlet partitioned blower wheel in said blower arranged to draw air through said air inlet opening and to move it through one side of said double inlet blower and said air outlet opening, and means responsive to said humidistat for reducing the volume of air moved through said evaporator.

2,661,604
OPEN TOP DISPLAY REFRIGERATING APPARATUS
Marshall W. Baker, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 3, 1950, Serial No. 193,795
6 Claims. (Cl. 62—89.5)



1. In a refrigerated display case, an elongated open top cabinet including a bottom wall, upright side walls and upright end walls, a member spaced vertically from said cabinet bottom wall and extending from one end wall to the other end wall of said cabinet to divide the interior thereof into an upper chamber and a lower chamber, a food supporting device inset within said upper chamber and mounted in spaced relation to said member to form a horizontal passageway therebetween, said device being spaced from said cabinet side walls to provide a passage at the front and at the back thereof, said device including a plurality of vertical flues extending transversely thereacross and being longitudinally spaced apart throughout the entire length of said cabinet, said flues dividing said device into a plurality of open top food storage compartments, said flues having their lower end communicating with said horizontal passageway, said member being spaced from the side walls of said cabinet to provide said horizontal passageway with an outlet adjacent the front side wall of said cabinet and an inlet at the back side wall thereof, means for circulating air downwardly from said upper chamber through the passage at the front side wall of said cabinet past the outlet of said horizontal passageway into said lower chamber, transversely across said lower chamber and upwardly therefrom into the passage at the back side wall of said cabinet, the circulation of air past the outlet of said horizontal passageway creating a suction therein and causing some of the air circulated into the passage at the back side wall of said cabinet to flow into said horizontal passageway through its inlet, said device dividing the air entering said horizontal passageway into a plurality of streams of air one of which flows transversely across the cabinet beneath said food storage compartments while others flow upwardly through said transverse longitudinally spaced apart flues, the stream of air flowing transversely across said cabinet in said horizontal passageway being discharged from the outlet thereof into and mixed with air circulating downwardly from said upper chamber as it flows into said lower chamber, and refrigerating means within said lower chamber in the path of mixed air flowing thereacross for cooling the same.

2,661,605
SEPARATOR FOR INTERMINGLED FLUIDS
Edward R. Liggett, Fresno, and Clarence R. Calender, Calwa, Calif., assignors, by direct and mesne assignments, to Husky Refrigeration Corporation, Reno, Nev., a corporation of Nevada
Application January 17, 1951, Serial No. 206,474
2 Claims. (Cl. 62—117.75)

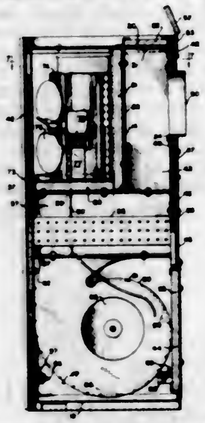


1. In a refrigeration system having a compressor, a condenser, an expansion valve, and an evaporator connected in closed series relation and containing a refrigerant and a lubricant; a separator comprising a horizontally elongated chamber having end walls, side walls, a top wall and an approximately horizontal slightly inclined bottom, the condenser being connected to an end wall of the separator adjacent to the top wall, the expansion valve being connected adjacent to the top wall to the end of the chamber opposite that to which the condenser is connected, a false bottom mounted in the chamber in substantially parallel relation to the bottom, a plurality of rectangular baffles mounted transversely in the chamber in substantially erect parallel relation, there being a baffle adjacent to each end of the chamber and alternate baffles therebetween connected to the top wall and downwardly extended therefrom having lower edges in spaced adjacent relation to the false bottom, and the intermediate baffles being connected to the false bottom and upwardly extended therefrom providing upper edges in spaced adjacent relation to the top wall and with the alternate baffles defining therebetween a vertically reciprocal path through the chamber from the end thereof connected to the condenser to the end connected to the expansion valve, the false bottom having perforations therethrough adjacent to the upwardly extended baffles on the side of the baffles towards which the bottom is inclined; and a pressure regulating valve connected to the chamber of the separator at the lower end of the bottom and below the false bottom and to the compressor in by-pass relation to the expansion valve and evaporator, the pressure regulating valve and the expansion valve being adapted to offer substantial resistance to passage therethrough of lubricant and refrigerant respectively.

2,661,606
CONSOLE AIR CONDITIONER
Allen Trask, Chicago, Ill.
Application February 23, 1951, Serial No. 212,281
8 Claims. (Cl. 62—140)

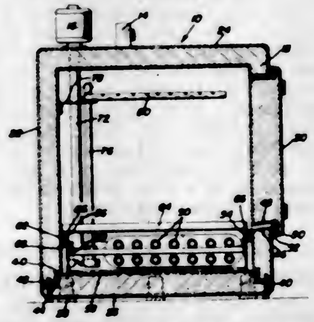
1. A console air conditioner comprising a chassis, a condensing unit and an air cooling evaporator unit within said chassis, an L section side panel assembled to each side of said chassis symmetrically with its foot section covering a front corner portion of the chassis and being adapted

to retain a side of a front panel, a front panel removably retained at the front of said chassis by



said foot sections of said side panels, and a top panel secured to the top of said chassis.

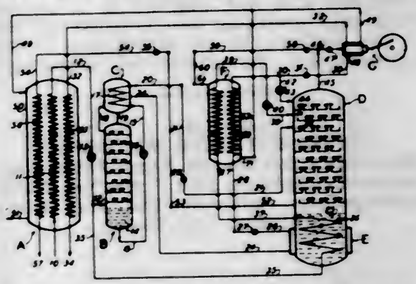
2,661,607
MILK COOLER
Richard Markley, Madison, Wis., assignor to Dairy Equipment Company, Madison, Wis.
Application February 14, 1950, Serial No. 144,069
9 Claims. (Cl. 62—141)



1. A milk cooler comprising a cabinet having insulated top, bottom, side and end walls, a door in a side wall, one of said walls being removable, and means for supporting milk cans in said cabinet above said bottom wall for removal through said door, a liquid receiving tank having an open top in said cabinet below said supporting means, said tank being removable through said removable wall, said supporting means resting on the upper edges of said tank.

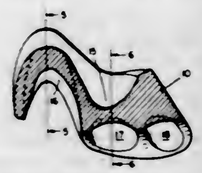
2,661,608
METHOD OF PUMPING LIQUEFIED GASES CONTAINING NITROGEN
Frank E. Pavlis, Allentown, Pa., assignor to Air Products, Incorporated, Emmaus, Pa., a corporation of Michigan
Application May 15, 1948, Serial No. 27,243
6 Claims. (Cl. 62—175.5)

1. The method of transferring liquefied product of a fractionating operation, in which operation a mixture of compressed and cooled component gases having boiling points substantially below atmospheric temperature is expanded and the effluent of the expansion step subjected to the fractionating operation to produce a liquefied higher boiling point fraction and a gaseous lower boiling point fraction at relatively low pressure, comprising forming as a step in the fractionating operation liquefied lower boiling point fraction at a pressure substantially equal to the vapor pressure of the liquefied lower boiling point fraction, withdrawing a stream of the liquefied lower boiling point fraction from the fractionating operation, subcooling the stream of liquefied lower boiling point fraction by heat exchange with a



relatively colder fluid from the fractionating operation at a pressure lower than the pressure of the liquefied lower boiling point fraction, the last named pressure being such that the temperature of the liquefied lower boiling point fraction is reduced to a point below the boiling point of the liquefied lower boiling point fraction at the minimum momentary pressure reached in an ensuing pumping step, and pumping the subcooled liquefied lower boiling point fraction in liquid phase to a relatively high pressure.

2,661,609
CUP CONSTRUCTION
Louis A. Revell, Hollywood, Calif.
Application July 5, 1950, Serial No. 172,147
1 Claim. (Cl. 65—13)



A cup comprising a hollow bowl having a serpentine-shaped handle disposed in a direction substantially circumferential of the exterior side surface of said bowl, said handle having in its bottom surface downwardly-opening finger-receiving recesses spaced apart in a direction circumferentially of said bowl and having in its top surface a serpentine-shaped upwardly-opening thumb-receiving recess.

2,661,610
HOLDER FOR CONICALLY SHAPED CUPS
Alfred Treff, Chicago, Ill., assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States
Application February 21, 1951, Serial No. 212,134
3 Claims. (Cl. 65—61)

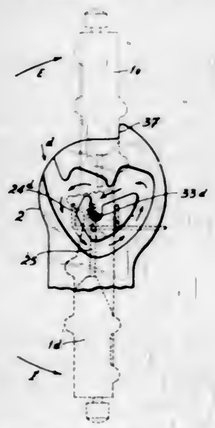
1. In a holder for conical paper cups, an adapter for establishing a frictional gripping relation with the outside wall of the cup when in position of use comprising a plurality of ver-

tically spaced, horizontally disposed plates of highly flexible material having aligned openings of gradually decreasing dimension from the top plate to the bottom plate, the portions of the



plates adjacent the openings being deflected upon engagement with the cup as it is projected through said openings into position of use to bring top surfaces of the plates into frictional engagement with the outside wall of the cup.

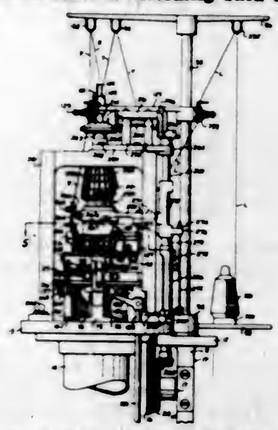
2,661,611
HAND KNITTING MACHINE
Mario Negri and Ismaele Negri, Milan, Italy
Application April 20, 1950, Serial No. 156,968
Claims priority, application Italy May 21, 1949
4 Claims. (Cl. 66—4)



1. A hand knitting machine, comprising in combination, supporting means; a plurality of sinker elements movably mounted in said supporting means; manually operable means for advancing and retracting said sinker elements; a comb provided with a plurality of needles; two pivots, each pivot fixedly secured to one end of said comb; and end bearings supported by said supporting means and supporting said comb, said end bearings having inner opposed faces, each of said inner opposed faces provided with a groove, each of said grooves constituting a continuous path for guiding said pivots and said comb during the operation of said comb.

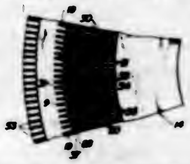
2,661,612
MACHINE FOR KNITTING SHAGGY FABRICS
Herman E. Crawford, Kernersville, N. C.
Application October 19, 1951, Serial No. 252,082
9 Claims. (Cl. 66—9)

1. In a circular independent needle knitting machine having a rotary circular series of needles therein and also having a set of stitch cams through which the needles pass in forming stitches and also having means for directing a body yarn to all of the needles to form a base fabric therefrom as the needles pass through the stitch cams; the combination of a loop head having a plurality of circularly spaced loop fingers thereon, means for imparting rotation to said loop fingers in unison with the needles disposed adjacent the loop fingers, means for directing an auxiliary yarn to certain spaced needles at a point in advance of the stitch cams, means for independently moving each of the loop fingers radially from a point at one side of the circular series of needles and across the path of the needles and at a point between said spaced needles and in advance of the stitch cams, the loop fingers being positioned at such a level as to engage the loop yarn as they move across the path of the circular series of needles and between adjacent spaced needles, and means for holding said loop fingers



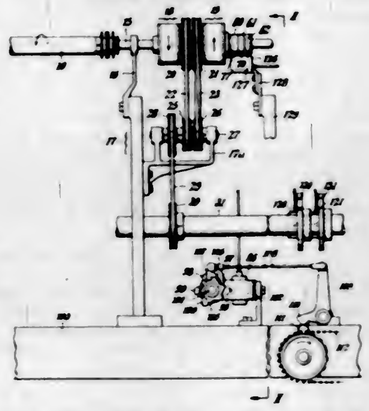
in a predetermined position relative to the needles after the loop fingers have moved across the path of travel of the needles whereby a substantially greater amount of the auxiliary yarn will be directed to said spaced needles than is normally required to thereby result in elongated loops subsequently being formed as the spaced needles pass through the stitch cams to form stitches therewith simultaneously from both the body yarn and the auxiliary yarn and wherein said elongated loops will be interknitted with the stitches formed of the body yarn.

2,661,613
DIAL CONSTRUCTION FOR CIRCULAR RIB-TYPE KNITTING MACHINES
Samuel Mishcon, Belle Harbor, and Harry Agulnek, Brooklyn, N. Y., assignors to Supreme Knitting Machine Co., Inc., Brooklyn, N. Y., a corporation of New York
Application December 31, 1952, Serial No. 328,878
10 Claims. (Cl. 66—115)



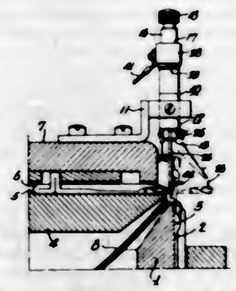
1. In a needle-supporting dial for a circular rib-type knitting machine, a plurality of substantially radially disposed grooves in the face of the dial, and a plurality of inserts operatively supported within said grooves, each of said inserts having a portion pressed out forwardly from the rear wall of the insert to form a front wall inclined relative to said rear wall, said front and rear walls extending in substantially radial directions in relation to said dial, the front wall of each insert being spaced from the rear wall of the next adjacent insert a distance substantially equal to the thickness of a dial needle.

2,661,614
FABRIC TAKE-UP MECHANISM FOR TEXTILE MACHINES
Peter J. Schoenster, Teaneck, and Max E. Ebert, West New York, N. J., assignors to Alfred Hoffmann & Co., West New York, N. J., a corporation of New Jersey
Application May 11, 1949, Serial No. 92,534
9 Claims. (Cl. 66—149)



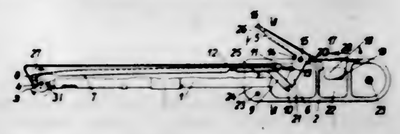
6. In fabric draw-off mechanism for a textile machine having a fabric take-up roll, an electro-magnetic slip clutch for driving the roll, means automatically operative to vary current flow to the magnetic clutch and so change the torsion influence of the latter for variation in the tension imposed upon the fabric during different predetermined stages in the knitting cycle of the machine, and supplemental means operative at predetermined times during certain stages of the knitting cycle to partially counteract the torsional effect of the clutch and so modify the tension imposed upon the fabric.

2,661,615
NEEDLE SAVER STOP MOTION
Alfred Crawford and Michael Antonevich, New Brunswick, N. J., assignors to The Crawford Manufacturing Company, Inc., New Brunswick, N. J., a corporation of New Jersey
Application August 2, 1951, Serial No. 239,938
10 Claims. (Cl. 66—157)



1. In a detector device of the character described, the combination with an axially fixed rock shaft, of a detector finger pivotally mounted on the shaft for movement about an axis transversely disposed with respect to the shaft axis and between alternative positions in one of which the finger lies approximately parallel to the axis of the rock shaft and in the other of which the finger is angularly disposed with respect to said axis, and means responsive to movement of the rock shaft about its axis for effecting angular movement of the finger about its axis between said alternative positions.

2,661,616
GAS IGNITER
Alfred Racek and Johann Raganitsch, Vienna, Austria
Application March 1, 1951, Serial No. 213,312
4 Claims. (Cl. 67—6.1)



2. A gas igniter which comprises a hollow handle composed from two shell parts joined along a longitudinal plane of symmetry of the handle, said shell parts together forming an opening at one end of the handle, a tubular sleeve one end of which is inserted into said opening, means for emitting sparks accommodated in said sleeve adjacent to the other end thereof, a driver consisting of a push rod accommodated in said sleeve and adapted to operate said means for emitting sparks, an actuating member mounted in said handle, means for dividing the handle cavity into a front chamber and a rear chamber, and means for closing said rear chamber, said front chamber containing connecting means between the push rod and the actuating member, means for permanently articulating said connecting means to the actuating member, and a compression spring inserted between the push rod and the actuating member, said rear chamber being adapted to accommodate spare flints.

2,661,617
CIGARETTE LIGHTER
Herman George Treiss, Jr., New York, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application June 21, 1949, Serial No. 100,322
8 Claims. (Cl. 67—7.1)



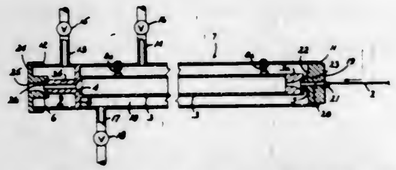
3. In a cigarette lighter the combination of, an outer casing having a window, a cap, spring urged toward open position, a yieldable latch disposed within the casing for releasably securing said cap in its closed position, a fulcrumed latch releasing member movably mounted in said casing window, means for restricting movement of the latch releasing member to a rectilinear direction for a predetermined distance, and pivot means on said member for turning the member after said rectilinear movement, to displace the latch and release the cap.

2,661,618

TUBE FOR TREATING FIBERS AND THE LIKE WITH FLUID UNDER PRESSURE

John A. Bessom, Media, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application January 17, 1950, Serial No. 139,107
3 Claims. (Cl. 68—6)



1. Apparatus for treating continuously moving filamentary material with a fluid which comprises an elongated, relatively narrow, straight tube provided at its opposite ends with entrance and exit extensions, an opening in each extension communicating with, and having reduced diameter as compared to, the interior of the tube proper, the entrance opening terminating in a gradually tapered portion increasing in diameter in a direction away from the tube, the exit extension terminating in a gradually tapered outer face decreasing in diameter in a direction away from the tube, means for enclosing the tube and its extensions comprising a casing surrounding the tube and its extensions, means extending between the tube and the casing for supporting the tube in fixed position in the casing, an annular member having an axial passage mounted on the casing adjacent the entrance extension with its axial passage in alignment with the opening in the entrance extension, and an annular member having an axial passage mounted on the casing adjacent the exit extension with its axial passage in alignment with the opening in the exit extension; means for introducing a fluid into the casing; the annular member adjacent the entrance extension comprising a central projection having a gradually tapered inner face decreasing in diameter toward the tube, said projection normally extending into the opening of the tube entrance extension and defining with it an annular channel through which the fluid flows in streamlined condition from the casing into the tube, the axial passage in the annular member adjacent the exit extension terminating adjacent the exit extension in a gradually tapered portion increasing in diameter toward the tube, the exit extension normally extending into the last-mentioned tapered portion, the mounting of the annular members in the casing comprising means for adjusting the members axially toward and away from the tube.

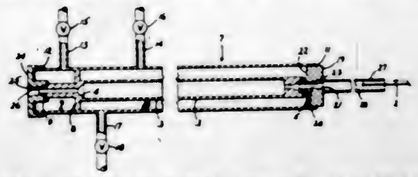
2,661,619

APPARATUS FOR THE FLUID TREATMENT OF FIBERS AND THE LIKE

Robert H. Helle, Media, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala., a corporation of Delaware

Application January 17, 1950, Serial No. 139,108
8 Claims. (Cl. 68—6)

1. An apparatus for treating continuously moving fibers and filamentary bundles with fluid under pressure comprising, an elongated, relatively narrow, straight tube having small diameter entrance and exit openings in opposite ends thereof, the inner wall of said tube, at the entrance end thereof, terminating in a gradually tapered portion and the outer wall of the tube, at the exit end thereof, terminating in a gradually tapered portion, an enclosed jacket surrounding the tube, means for supplying fluid under pressure to the jacket, an annular member having an axial strand passage threadedly secured to the jacket adjacent the entrance end of the tube with its passage in alignment with the bore of the tube, said annular member comprising a central projection which extends into the bore of the tube and terminating, at the end thereof adjacent the tube, in a gradually tapered outer face, the gradually tapered outer face of the annular member and the gradually tapered portion of the inner wall of the tube defining a channel which surrounds the central projection of the annular member and communicates with the bore of the tube and the interior of the jacket whereby the fluid under pressure can flow in a streamlined condition from the jacket into the tube, said annular member being movable toward and away from the tube to vary the width of the channel defined by the tapered portion of the tube and the tapered face of the annular member and capable of closing said channel, a strand pretreating and pressure drop tube arranged with one end thereof connected to the outer face of the annular member and the opposite end thereof opened to the atmosphere, said tube having an axial passage aligned with the passage of the annular member and the bore of the first tube, the axial strand passages of the annular member and of the strand pretreating tube constituting an elongated, enclosed introductory channel for the fibers or filamentary bundles advancing to the first tube which channel has a diameter at least as large as the diameter of the strand entrance opening of the first tube and a length of at least 3 inches, and a second annular member threadedly secured to the jacket adjacent the exit end of the tube, said second annular member having an axial strand passage terminating, at the end thereof adjacent the tube, in a gradually tapered portion into which the exit end of the tube extends, the gradually tapered portion of the outer wall of the tube and the gradually tapered passage of the second annular member defining a channel which surrounds the exit end of the tube and communicates with the interior of the jacket and the passage in the second annular member whereby the fluid under pressure can flow in a streamlined condition from the jacket to the atmosphere through the passage in said annular member.



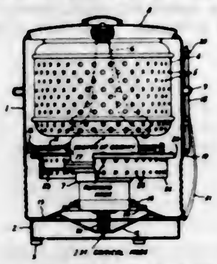
2,661,620

WASHING MACHINE AND VIBRATION DAMPING MEANS THEREFOR

James F. Young, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application November 20, 1947, Serial No. 787,089
7 Claims. (Cl. 68—23)

1. In a washing machine having a tub for containing a washing liquid, a unitary structure within said tub comprising a rotatable shaft, a relatively heavy body on said shaft, journaling means for said shaft, means resiliently supporting said journaling means within said tub, and dampening means carried by and spaced radially outwardly from said journaling means and positioned to present a relatively broad surface to the liquid in the tub upon vibrational movement of said unitary structure transverse to the normal axis of said shaft.

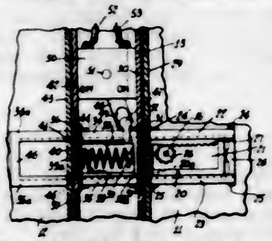


2,661,621

LOCKING MEANS FOR DOORS, IN PARTICULAR FOR AUTOMOTIVE VEHICLES

Ixyder Stern, Antwerp, Belgium

Application February 21, 1950, Serial No. 145,409
1 Claim. (Cl. 70—255)



A lock structure for automotive vehicles having at least one door and a door post therefor; comprising, in combination, a key-controlled cylinder lock, a shaft extending from said cylinder lock and operatively connected to the latter, a pinion on said shaft, a slide mechanism arranged for movement by said pinion, registering passageways provided in said door and said door post, respectively, whereby said slide mechanism may be actuated by said pinion to extend through said passageways of said door and said door post to lock said door to said post, said slide mechanism including a slide member having a cut-out, a rack forming a wall of said cut-out and positively engaging said pinion, a spring-supported displaceable follower in the path of said slide member and cooperable with the latter, switch means actuatable by displacement of said follower and arranged in said door post, said switch means including conductor means connected to the ignition circuit of said vehicle track means disposed within said door and within said door post for guiding said slide, and stop means adjustably associated with said track means within said door to limit the extent of movement of said slide along said track means.

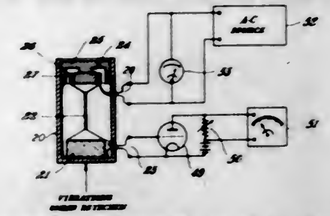
2,661,622

ELECTRIC VIBRATION PICK-UP

Jan Severs, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 22, 1947, Serial No. 762,638
4 Claims. (Cl. 73—70)

1. Vibration detection apparatus comprising a mechanico-electrical converting element for translating vibrations into an electrical wave, means to apply the vibrations to be detected to said element to produce an electrical wave depending on said vibrations, means coupled to said element to measure the electrical output thereof, an electro-mechanical converting member mechanically coupled to said element for imparting force thereto, and an alternating voltage source having a predetermined amplitude, said source being electrically coupled to said member to energize same, whereby said member impresses reference vibrations on said element to enable calibration of the detection apparatus.

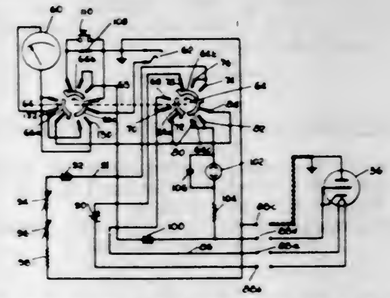


2,661,623

TENSIOMETER

Robert M. Brink, Greenwich, Conn., assignor to Deering Milliken Research Trust, Greenwich, Conn., a nonprofit trust of Maine

Application June 18, 1949, Serial No. 99,961
10 Claims. (Cl. 73—144)



1. A tensiometer for filamentary material comprising in combination a cantilever beam of low compliance, filamentary material engaging means carried by the free end of said beam for transmitting to said beam forces tending to flex the beam in accordance with the tension in filamentary material in engagement with said means, a transducing tube having a movable anode, a relatively stiff connection between said anode and the movable part of said beam and an indicating device connected to said tube and responsive to changes in conductance thereof, said beam having a cross section reduced in one dimension intermediate the fixed and movable parts, said reduced cross section determining the plane of flexure of said beam.

2,661,624

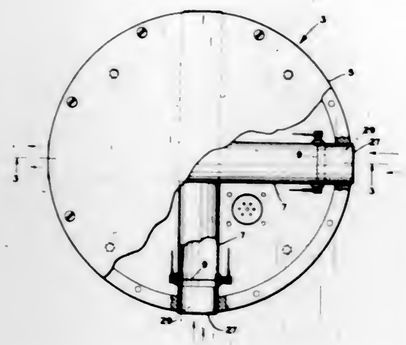
AIR SPEED INDICATING DEVICE

Paul F. Bechberger, Tenafly, and James E. Bevins, Ramsey, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application August 15, 1949, Serial No. 110,338
3 Claims. (Cl. 73—180)

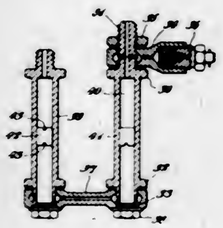
1. In a device of the kind described, an elongated tube, an electrical bridge circuit including

a pair of thermally responsive resistance elements positioned in said tube and spaced a substantial distance from one another lengthwise of said tube, means closing the ends of said tube, each of said means having an aperture and a nozzle positioned within said aperture and extending therefrom to a point adjacent each of said resistance



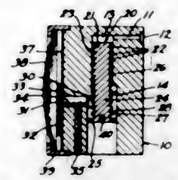
elements and providing a relatively narrow passage in the tube directed toward the associated element to increase the velocity of the fluid and to direct the fluid in one direction over the associated element without appreciably affecting the temperature of the other element, and means responsive to said bridge circuit to indicate fluid flow through said tube.

2,661,625
PROTECTIVE CONNECTOR FOR PRESSURE GAUGES
Charles R. A. Grant, London, England, assignor of one-half to Pressure Gauges Limited, Dublin, Ireland, an Irish company
Application June 27, 1952, Serial No. 296,039
2 Claims. (Cl. 73—389)



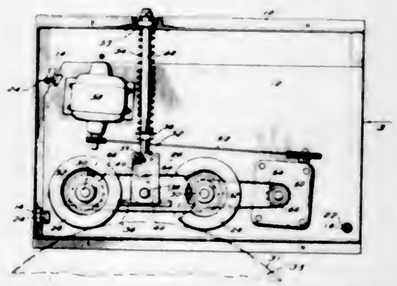
1. A gauge connection for connecting a pressure gauge to a gas pressure system comprising a first vertical cylinder, means to connect the upper end of the said cylinder to the pressure gauge, a second vertical cylinder disposed with its lower end substantially level with the lower end of said first cylinder, means to connect the lower ends of said cylinders one to the other, means to connect the upper end of said second cylinder to the gas pressure system, an obturating member movable in said first cylinder, a seat for said obturating member at the upper end of said first cylinder, a floating piston movable in said second cylinder, and liquid filling said first cylinder and at least the part of the second cylinder below the floating piston.

2,661,626
FLUID PRESSURE GAUGE
Archibald R. Moffett, Orinda, Calif.
Application April 20, 1951, Serial No. 222,010
5 Claims. (Cl. 73—419)



1. A gauge for measuring fluid pressure, including in combination a housing having a chamber for the fluid under pressure; a piston movable in said chamber by said fluid, said piston having a racked stem; a pair of spring means joined by a single yoke to said piston, one on each side thereof and adapted to oppose movement of the piston caused by increases in fluid pressure in said chamber, each said spring means including a spring anchored at one end to a swivel member to which the yoke is secured, and anchored at its other end to a member threaded into said housing, whereby the tension on the spring can be adjusted by varying the position of said threaded member in said housing; and an indicator including a rotatable shaft journaled in said housing with a pointer at one end thereof and a pinion at the other end in engagement with said racked stem.

2,661,627
TURNTABLE DRIVE
David Bruce Johnston, Port Chester, N. Y.
Application October 30, 1951, Serial No. 253,909
9 Claims. (Cl. 74—209)

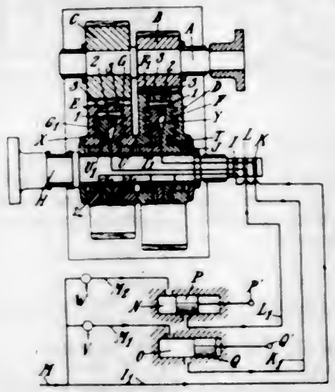


1. In a drive mechanism for operating a turntable comprising a base plate, mounting means for said base plate, said mounting means being adapted to coact with said base plate to permit limited pivotal movement of said base plate in one plane but restrict movement in other planes, driving means mounted on said base plate, a driven unit also mounted for limited pivotal movement independent of said limited pivotal movement of said base plate, a rotating element in said driven unit driven by said driving means and adapted to engage and rotate said turntable.

2,661,628
POWER TRANSMISSION GEAR
Thomas Hindmarch, Chesham, England
Application May 8, 1951, Serial No. 225,247
14 Claims. (Cl. 74—364)

1. A power transmission gear including in combination with input and output means, at

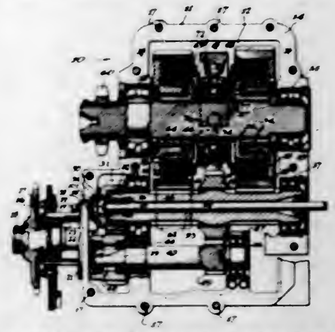
least two gear trains incorporating units respectively associated with each said means incorporating chambers, fluid operated clutch means controlling the engagement and disengagement of each clutch and thus of each of said gear trains and said fluid operated clutch means including fluid supply means for the respective clutch means comprising means providing continuous flow of fluid under pressure to the chambers controlling clutch disengagement and means providing controlled fluid flow communication with the chambers controlling clutch engagement, fluid exhaust chambers for the clutch means, selectively operable control means embodied with said means providing controlled



fluid flow communication with the chambers controlling clutch engagement to selectively control fluid supply to effect selective engagement of said clutch means in accordance with the desired drive relationship embodied with the respective gear trains and said fluid supply and exhaust means further including fluid flow metering means regulating fluid flow to said clutch chambers controlling clutch engagement and from said clutch chambers so that the transfer of power from one gear train to another is responsive to the time delay of fluid flow in such fashion that one clutch gradually disengages while the other clutch gradually engages until total disengagement of one clutch and driving engagement of the other clutch is effected.

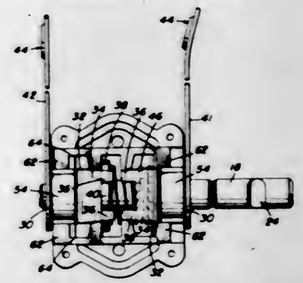
2,661,629
TRAMMING DRIVE FOR MINING AND LOADING MACHINE
Chester E. Andershock, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 18, 1951, Serial No. 237,425
12 Claims. (Cl. 74—368)

1. In a mining machine having ground engaging traction means and a reversing mechanism therefor including a countershaft supporting a pair of reversing gears rotatable on said countershaft at equal speeds in opposite direction by a driving connection with a hollow pinion shaft; the combination therein of a change speed mechanism for causing said traction means to operate selectively at low or high speeds comprising a driving pinion supported on said hollow pinion shaft at times adapted to rotate with respect thereto and having an internal spline therein and adapted to be drivably connected directly to said hollow pinion shaft for one speed thereof, a lay shaft having a gear fast thereon, a gear fast to said pinion shaft and meshing with said gear fast on said lay shaft, a pinion supported on said lay shaft and meshing with said driving pinion, clutching means interposed between said lay shaft supported pinion and said lay shaft for an overrunning connection therebetween, an internal



spline formed in said hollow pinion shaft, and a splined actuator which is axially shiftable within said internally splined hollow pinion shaft for drivably and directly connecting said splined driving pinion to said internally splined hollow pinion shaft.

2,661,630
GEAR SHIFT MECHANISM
Eual C. Thompson, Atlanta, Ga.
Application January 28, 1953, Serial No. 333,635
5 Claims. (Cl. 74—477)

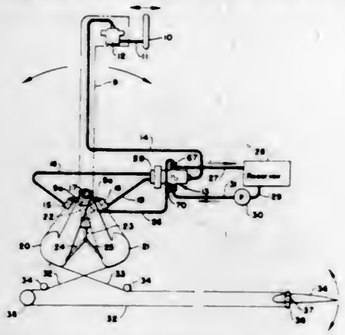


1. A repair attachment for shift boxes having a rotatable and axially moveable actuator shaft provided with a collar having a radial projection selectively engageable with a pair of shifting yokes rockably mounted on the shaft, said attachment comprising means positioned on said shift box adjacent said yokes and having portions disposed laterally thereof presenting guides, means slidably carried in said guides engageable by said collar for movement therewith, said last means having abutment ears selectively engageable with that yoke out of engagement with said projection.

2,661,631
CABLE TENSION COMPENSATING AND REGULATING APPARATUS
Gene R. Myers, Seattle, Wash., assignor to Boeing Airplane Company, a corporation of Delaware
Application June 22, 1949, Serial No. 100,614
20 Claims. (Cl. 74—501.5)

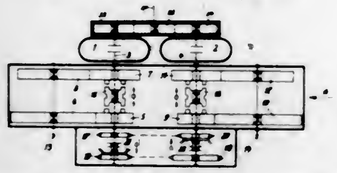
1. In aircraft, a movable surface, control mechanism including flexible cables operatively connected to said movable surface for the manual control thereof, adjustable means for varying the tension within said control cables, means for sensing variations in tension within said control cables, and control valve means for sensing con-

trol forces applied to said control mechanism and control valve means for automatically comparing the forces sensed by said cable tension sensing



means and said control force sensing means for initiating adjustment of said cable tensioning means.

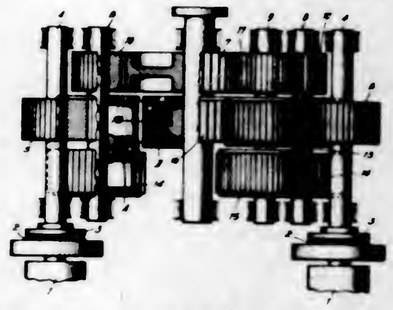
2,661,632
TWIN MULTIPLE SPEED TRANSMISSION
Ernst Lammerz, Essen, and Heinrich Herrmann, Kettwig, Germany, assignors to Fried. Krupp Lokomotivfabrik, Essen, Germany,
Application March 8, 1951, Serial No. 214,458
Claims priority, application Germany March 29, 1950
11 Claims. (Cl. 74—665)



1. A multiple speed transmission comprising in combination, a first and a second transmission unit, each of said units comprising an input shaft, an output shaft, and a clutch operatively interposed between said input and said output shaft for selectively bringing about a speed change in the respective units, two hydraulic power transmission means respectively associated with said units for conveying power thereto, and additional transmission means including shiftable clutch means arranged for selectively drivingly interconnecting said first and said second input shafts.

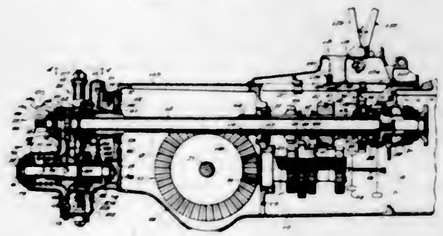
2,661,633
SHIP PROPULSION GEAR
Franz August Süberkrüb, Hamburg, Germany
Application August 28, 1951, Serial No. 243,998
9 Claims. (Cl. 74—665)

1. An interchangeable multiple speed toothed wheel reduction and reversing gear mechanism for ship propulsion for driving a single propeller shaft by at least one engine comprising, in combination, a driven wheel fixedly mounted on the propeller shaft, at least one driving wheel, and between said driven wheel and said driving wheel at least two parallel intermediate gear shafts each transmitting a separate speed reduction from the driving to the driven wheel, the said intermediate shafts each carrying one fixed and two rotatably mounted wheels, clutch means for connecting said rotatably-mounted wheels to their respective shafts, the fixed wheel on said shafts meshing with the driven wheel on the propeller shaft, one of the two rotatably-mounted wheels meshing with the driving wheel, the other of said rotatably-mounted wheels meshing with the corresponding wheel on the adjacent inter-



mediate shaft, the rotatably-mounted wheels on one of said intermediate shafts being connected to form a common rotating unit, the rotatably-mounted wheels on the adjacent intermediate shaft being adapted to rotate independently of one another.

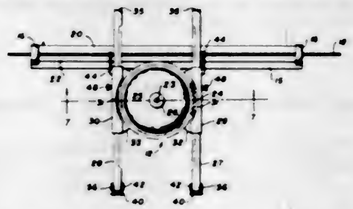
2,661,634
CHANGE SPEED TRANSMISSION FOR VEHICLES
William O. Bechman and Nicholas J. Palkovic, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application June 10, 1948, Serial No. 32,118
7 Claims. (Cl. 74—700)



1. Change-speed power transmission apparatus for transmitting driving force to final drive mechanism of a vehicle, comprising power transmission units of different speed ratio on respective opposite sides of such mechanism, one of said units including a driven shaft drivingly connected with the final drive mechanism, a selectively driveable shaft extending across said mechanism for being alternatively driven through said units, means for driving the driven shaft from said selectively driveable shaft, a drive shaft structure also extending across said mechanism in driving relation with said units, and means for selectively conditioning the transmission units for driving the selectively driveable shaft.

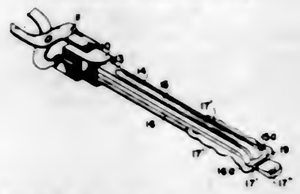
2,661,635
SAW FILING DEVICE
Anker Thomassen, Brooklyn, N. Y.
Application September 19, 1951, Serial No. 247,291
2 Claims. (Cl. 76—31)

1. A manually operable saw sharpening device comprising a work clamp for receiving and securing a saw to be sharpened, a sharpening assembly mounted in hinged relationship to the work holder and adapted to be opened out from the work holder and to be moved along the length of said holder in a direction parallel to a saw secured in the holder for advancing the sharpening assembly to successive portions of the saw, said sharpening assembly comprising a centrally disposed axle member having a circular gear mounted thereon and including means for manually rotating said gear, and a pair of geared drive racks meshed in tangential relationship to said circular gear on either side thereof and adapted to be driven across the work holder upon rotation of said circular gear in alternate direc-



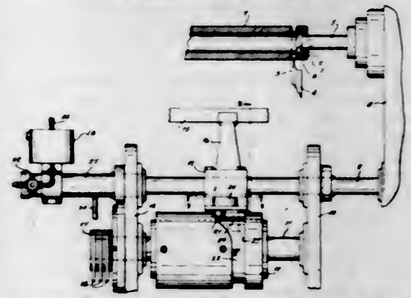
tions of rotation, each of said racks being independently adjustable around the geared circumference of said circular gear for varying the angle at which each rack is driven across the work holder in accordance with the angular bevel of the saw teeth to be sharpened, an abrasive sharpening member mounted on each of said racks and adjustable thereon for positioning its cutting surface to conform to the angular slope of the saw teeth to be sharpened, and an adjustable guide member positioned adjacent to each of the sharpening members for guiding the members into contact with a saw secured in said work holder.

2,661,636
PROCESS FOR FORMING CABLE TOOL DRILL BITS
Ferdinand J. Spang, Butler, Pa., assignor to Spang & Company, Butler, Pa., a corporation of Pennsylvania
Application April 18, 1950, Serial No. 156,549
8 Claims. (Cl. 76—108)



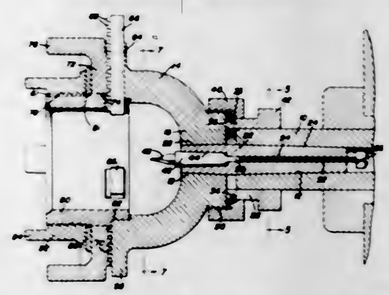
1. A method of forming a percussion well drilling bit having connected shank and blade parts and a substantially finished cutting end portion of improved characteristics which comprises, heating a steel billet blank to a forging temperature, preliminarily forging the billet blank from an intermediate portion to one end thereof into a substantially rectangular shape; die-forging the preliminarily forged portion of the blank into a blade part and a starting portion of a wrench flat of the shank part, while reversing the major transverse axis of the corresponding preliminarily forged portion of the blank; such die-forging step being effected by overlapping operations that progress from such intermediate portion towards such end of the blank and that terminate closely adjacent such end of the blank to leave an excess metal crop at such end of the blank; die-forge-enlarging the crop of the blank into a cutting end for the bit by a controlled flow of metal of the crop transversely towards opposite sides of and from the blade part longitudinally towards an outer end of the crop; reversing the blank and reheating it to a forging temperature; preliminarily forging the blank from the intermediate portion to an opposite end thereof into a rough shank part; die-forging the last-mentioned preliminarily forged portion of the blank into a wrench flat, a collar, and a pin of the shank part of a bit; and trimming off the blank after the die-forging operations.

2,661,637
QUICK RETURN CAM FOLLOWER FOR MACHINE TOOLS
Walter F. Green, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application April 5, 1950, Serial No. 154,074
6 Claims. (Cl. 77—3)



1. A machine tool comprising a boring bar having a cutting tool thereon, drum cam means having a cam track therein for moving said boring bar toward a work piece from a starting position, means on said cam means for permitting a quick return of said boring bar, a cam follower mechanism on the boring bar including a link swingable about an axis disposed at right angles to the rotational axis of said cam means and a roller rotatably mounted on said link and operable in said cam track; and fluid motor means for quickly moving said bar away from the work piece, said cam follower swinging in said means for enabling the bar to be quickly returned to its starting position.

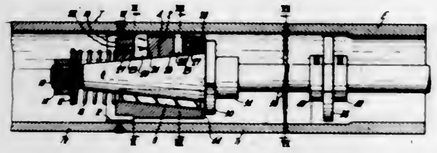
2,661,638
DRILL GUIDE
Nathan L. Ward, Reynolds, Ind.
Application August 30, 1950, Serial No. 182,223
4 Claims. (Cl. 77—18)



1. A drill center guide attachment for lathes comprising a supporting frame, means for mounting said frame upon the spindle of a lathe, a split sleeve clampingly engageable upon a lathe spindle, a fastening nut slidable upon said split

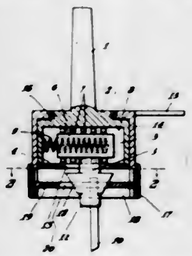
sleeve, complementary annular grooves in said split sleeve and said fastening nut, locking ring segments seated in said annular grooves, an externally threaded hub on said frame engageable by said fastening nut.

2,661,639
COLLAPSIBLE BORING TOOL
John A. Clyde, Ellwood City, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application July 25, 1951, Serial No. 238,457
4 Claims. (Cl. 77—58)



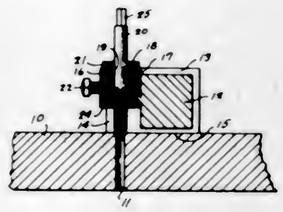
1. A boring tool comprising a generally cylindrical head having a tapered bore axially therethrough and two series of circumferentially spaced holes extending radially therethrough, the first of said series of circumferentially spaced holes being located toward the forward end of the head, the second series toward the rearward end thereof, a bar disposed coaxially of said head and having a conical plug thereon extending through said bore and keyed thereto, a compression spring on said plug constantly urging said head backwardly thereon, cutters slidable in one of the aforementioned series of radial holes and bearing on said plug at their inner ends, and stop pins slidable in the other series of radial holes adapted to engage said plug at their inner ends and the walls of a bore in a workpiece at their outer ends to limit the axial movement of said head on said plug and the outward movement on said cutters.

2,661,640
DEVICE FOR SHAPE-TURNING AND FOR THE PRODUCTION OF HOLLOW SHAPES AND TURNED PARTS BY MEANS OF A ROTATING CUTTING TOOL ON MACHINE TOOLS
Arnold Rüegg, Gumligen, near Bern, Switzerland, assignor to ARMAG Spezialwerkzeuge- und Maschinen A. G., Gumligen, Switzerland
Application June 15, 1951, Serial No. 231,842
Claims priority, application Switzerland September 22, 1950
10 Claims. (Cl. 77—61)



1. A device for shaping articles comprising a carrier spindle for attachment to rotary means, a head connected to said spindle and provided with a hollow space, a carrier for a tool supported in said head within said space thereof for displacement in relation to the rotational axis of said spindle, a guiding part for said tool carrier, an annular member seated on said head, a handle portion holding said annular member stationary while said carrier spindle rotates about said axis, and an adjusting ring internally threaded and attached to said annular member, said ring being adapted to threadedly and interchangeably receive an apertured template, whereby said template when inserted and threadedly displaced in said ring controls the movement of said guiding part of said tool carrier to thereby alter dimensions of the shape of an article to be worked upon according to the contour of the aperture of said template.

2,661,641
MAGNETIC DRILLING AND TAPPING ALIGNMENT JIG
William H. Wood, Jr., Seymour, Conn.
Application October 23, 1952, Serial No. 316,407
5 Claims. (Cl. 77—62)



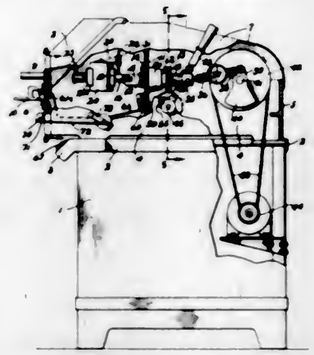
1. A jig of the character described comprising a magnet, upright end members secured to the opposite ends of the magnet forming pole pieces for the magnet and provided with straight lower edges to rest on a work member, said end members extending forwardly from the magnet, a nonmagnetic block mounted between said extensions, and an upright guide bushing mounted in the block and provided with a guide passage for a drill or tap.

2,661,642
ATTACHMENT FOR TWIST DRILLS
Marino Marcucci, Englewood, N. J.
Application June 24, 1948, Serial No. 34,885
3 Claims. (Cl. 77—66)



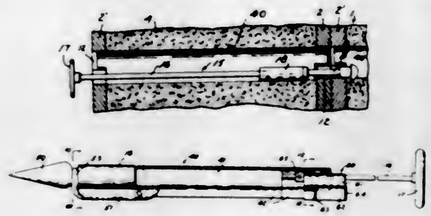
1. In an attachment for drills, a shouldered bushing adapted to be mounted on said drill, and having oppositely disposed screws therein for positively clamping it on the web between the flutes of said drill, and a tool for performing an operation mounted on said bushing with its upper end abutting the shoulder on the latter and having cutting edges which extend into the flutes of said drill.

2,661,643
PISTON ENLARGING MACHINE
Holly M. Olson, Muskegon, Mich., assignor to Sealed Power Corporation, Muskegon, Mich., a corporation of Michigan
Application December 20, 1948, Serial No. 66,203
7 Claims. (Cl. 78—1)



1. In a machine of the class described having a horizontal shaft mounted for independent or simultaneous turning and longitudinal reciprocating movements, and means for rapidly reciprocating said shaft in the direction of its length, said means having a relatively rotatable connection to one end of the shaft, the improvement comprising a clamping member adapted to be positioned at the opposite end of the shaft, said shaft having a reduced diameter extension at said end, and the clamping member having an opening through which said extension passes, a second clamping member spaced from the first clamping member, and screw threaded means carried by the second clamping member having releasable screw connection with said shaft extension, said extension and screw threaded means being adapted to pass through opposite wrist pin bosses of a piston.

2,661,644
WRENCH COMBINED WITH PUNCH AND ASSEMBLY TOOL
Victor J. Hultquist, Alcoa, Tenn.
Application November 13, 1952, Serial No. 320,251
12 Claims. (Cl. 81—3)

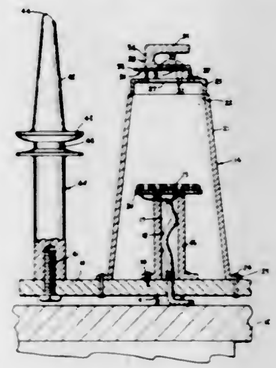


1. A tool comprising an elongated shank, a head on one end of said shank, a handle on the other end of said shank, a pointed punch on the end of said head, and a shoe extending longitudinally of said head and being tapered at both ends.

5. A tool comprising an elongated shank, a wrench head at one end of said shank and having a threaded bore, a pointed punch having a stem threaded in said bore, and a shoe extending longitudinally of said head and having at one end an eyelet interposed between said punch and said head and mounted on said stem, and a spring clip at the other end of the shoe clamping around said shank.

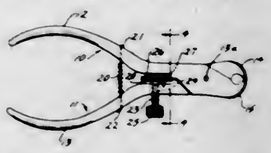
9. A tool comprising an elongated shank with a wrench head at one end, said head comprising a body having a bore with a nut-receiving socket at one end, a sleeve slidably positioned in said bore and having a threaded bolt-receiving recess therein, and means in said bore to normally urge said sleeve inwardly of said socket.

2,661,645
DEVICE FOR HEATING AND SHAPING OR ALTERING THE PARTS OF AN OPHTHALMIC MOUNTING
William B. Heath, New Bedford, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application July 6, 1949, Serial No. 103,288
2 Claims. (Cl. 81—3.5)



1. A temple shaping device comprising a support on which is mounted an anvil of relatively rigid material having a circumferentially extending recess, the base of which recess is approximately cylindrical in shape to provide a surface about which the temple may be bent in one plane, and said recess having one side thereof convexly curving in an outward direction and providing an annular convexly curved surface about which the temple may be bent in a direction transversely of said plane whereby a compound bend may be introduced on the temple to obtain a desired fit with the wearer's head.

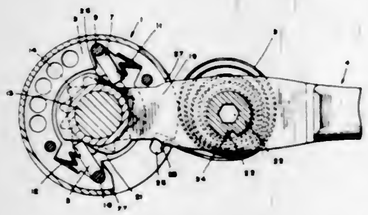
2,661,646
WATCHMAKER'S PLIERS
Victor A. Norvill, Pequabock, Conn.
Application August 21, 1951, Serial No. 242,834
1 Claim. (Cl. 81—6)



In a watchmaker's pliers, a pair of crossed plier handles pivoted together between their ends and having work-engaging jaws at one end thereof, a coil spring between said handles for pressing said jaws against the work located therebetween, a stop screw rotatably mounted within a tapped hole in one of said handles, said screw

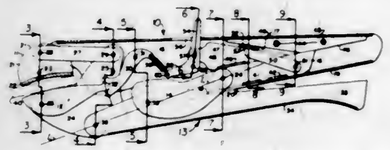
having a manipulating knob at its outer end and having its inner end engaging the other of said handles to limit the pressure which may be exerted upon the work by said jaws, said screw having an intermediate graduated ring fixed thereon between said handles, and an index pointer on one of said handles adjacent and overlying said ring and located at right angles thereto to indicate on said ring the exact adjustment of said stop screw.

2,661,647
RATCHET TYPE IMPACT TOOL
Oscar J. Swenson, Crystal Lake, Ill.
Application July 11, 1950, Serial No. 173,183
4 Claims. (Cl. 81—52.3)



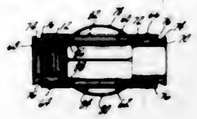
1. In a manually operable impact tool the combination of a rotatable tool head for engaging a threaded type fastening, manually actuated driving means, driving connections therebetween including ratchet and pawl members adapted to prevent relative movement of said driving means and said head in one direction and to allow relative movement thereof in another direction, a handle, cam means associated therewith for effecting separation of said ratchet and pawl members in response to movement of said handle when movement of said head is resisted by a predetermined force and spring means adapted to store up energy from the movement of said handle and to release said energy as impact energy upon the re-establishment of contact between said ratchet and pawl members.

2,661,648
QUICK-ADJUSTING TOGGLE WRENCH
Harold T. Jones, Vallejo, Calif.
Application February 18, 1950, Serial No. 145,073
19 Claims. (Cl. 81—84)



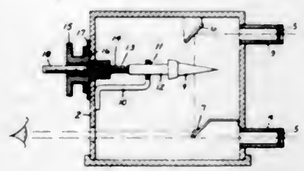
16. A wrench comprising an elongated handle, an upper jaw at the forward end thereof, a lower movable jaw mounted on said handle arranged to cooperate with the upper jaw to grip an article; a toggle for operating and locking the movable jaw consisting of an operating lever pivotally connected at its forward end to the movable jaw, a toggle link pivotally connected to the operating lever intermediate its ends, means engaging the other end of said toggle link adapted to slide along said handle with said link, lever and movable jaw while the toggle is locked and a control device in said handle for selectively locking said means in desired position.

2,661,649
BOLT ANCHOR WITH SPRING ROTATION PREVENTING MEANS
Roberts K. Skinner, West Hartford, Conn.
Application April 20, 1951, Serial No. 222,108
2 Claims. (Cl. 85—2.4)



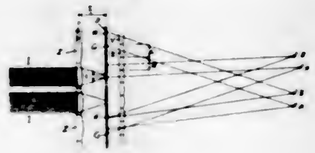
1. A bolt anchor comprising in combination, a plurality of radially outwardly movable gripping members provided with longitudinal grooves in the outer faces thereof and having initial inner positions, a wedging nut located at least partly between the gripping members, means on said gripping members to normally maintain said nut at least partially between said gripping members, said nut being engageable with a bolt so that upon rotation of the bolt the nut is longitudinally moved relatively to the gripping members for moving the said members outwardly from their said inner positions into engagement with the surface of a hole in which the anchor is located, and a plurality of longitudinally extending narrow spring members separate from the gripping members, means for securing one end of each of said spring members to its respective gripping member to prevent relative longitudinal movement therebetween, each of said spring members having its end portions engaging the gripping members and intermediate portions that are initially bowed outwardly but are in register with the said grooves, the said bowed portions of the spring members having pressure engagement with the said surface of the said hole when the gripping members are in their said inner positions so as to guide the entire anchor for longitudinal movement in either direction upon corresponding longitudinal movement of the bolt and so as to provide frictional resistance to longitudinal and rotative movements of the gripping members when the bolt is rotated to longitudinally move the nut and the said end portions of the springs being outwardly movable relatively to the bowed portions as the gripping members are moved outwardly by the nut so as to increase the pressure of the bowed portions against the surface of the hole with a resultant increase in the said frictional resistance provided by the said bowed portions.

2,661,650
METHOD FOR MEASURING VISIBILITY
Seibert Q. Duntley, Cambridge, Mass., assignor to General Electric Company, a corporation of New York
Application March 17, 1949, Serial No. 81,877
2 Claims. (Cl. 88—14)



1. A method of measuring range of visibility comprising positioning an object having a black background target portion of zero luminance in the atmosphere a known distance from a luminance comparison device, said distance being less than four yards; directing the horizon luminance and the apparent luminance from the direction of said black object into two juxtaposed positions in said comparison device, said apparent luminance being due solely to the diffusion of light by the atmosphere between said black object and said comparison device; filtering the intensity of the horizon luminance by means of a calibrated wedge until the two intensities appear equal, the amount of filtering used giving a true indication of the difference between the horizon luminance and the apparent luminance caused by the atmospheric diffusion property of the atmosphere between the black object and the comparison device; and obtaining an index of visibility by determining the amount of filtering necessary to equalize the luminance intensities.

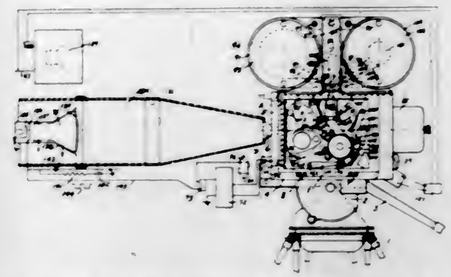
2,661,651
PROJECTION OF STEREOSCOPIC PICTURES
Johann Franz Stipek, Vienna, Austria
Application July 22, 1949, Serial No. 106,136
6 Claims. (Cl. 88—16.6)



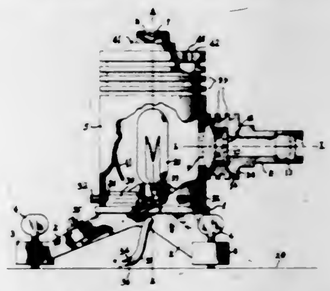
1. A device for the three-dimensional relief effect reproduction of stereoscopically taken right- and left eye-pictures by means of non-polarised light on a two-dimensional screen comprising in combination a movable grid of condenser lenses arranged for being projected upon from the rear alternately with right eye- and left eye-pictures, a translucent stationary screen arranged in front of the said movable grid at a distance equal to the focal length of said condenser lenses, an opaque blind in front of the said screen having separate zones of light permeable spots alternating with one another in the direction of movement of the said movable grid, driving means for moving the said movable grid in phase with the alternations of the right eye- and left eye-pictures and at a speed coordinated to the pitch of the said alternating zones of light permeable spots illuminating the said zones by the light from the said right eye- and left eye-pictures respectively, and a stationary grid of observation lenses arranged in front of the said blind for directing the light from the said zones of light permeable spots to the loci of the right eyes only, and of the left eyes only, respectively, of the spectators.

2,661,652
MOTION-PICTURE APPARATUS AND METHOD
Martin E. Evans, Brooklyn, N. Y.
Application October 10, 1949, Serial No. 120,563
26 Claims. (Cl. 88—18)

13. In combination, a motion picture camera, a luminous tube for providing intermittent illumination for exposures by said camera, a photoelectric control circuit for said tube, and manually controlled means having an operative connection with said camera for operating said control circuit synchronously with said camera exposures.



2,661,653
OPTICAL PROJECTION LEVELING DEVICE
Thomas Castiglia, New York, N. Y., assignor to Wheel Aligning Necessities, Inc., New York, N. Y., a corporation of New York
Application April 27, 1951, Serial No. 223,244
4 Claims. (Cl. 88—24)

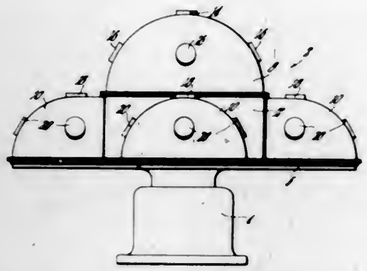


1. An optical projection leveling device comprising a housing rotatable on its vertical axis, a hollow base on which said housing is rotatably mounted, hollow legs and adjusting means supporting said base, electric switch means and connecting wires carried by said legs, an electric light in said housing connected to said wires, controlled by said switch means, and a lens system in an aperture in the side wall of said housing and rotating therewith through which rays from said light are projected, said lens system having its axis at precisely ninety degrees from said vertical axis, a disc and fine slit coaxial with the axis of said lens system, said system projecting a fine line on a target within the horizontal sweep of rotation of said lens system and on a plane precisely level with the axis of said lens system.

2,661,654
PROJECTION APPARATUS FOR PROJECTING SPOTS OF LIGHT SIMULATING STARS UPON A SURFACE
Frank D. Korkosz, Chicopee, Mass., assignor to American Planetarium Corporation, Chicopee, Mass., a corporation of Massachusetts
Application September 21, 1951, Serial No. 247,726
7 Claims. (Cl. 88—24)

1. Projection apparatus for projecting spots of light simulating stars upon a surface comprising in combination, a support including a central housing, a hollow central dome on the upper side of said housing being substantially in the form of a half-sphere, a plurality of hollow auxiliary

domes on said support at the sides of and adjacent said central dome being substantially in the form of quarter-spheres, projecting lens sys-



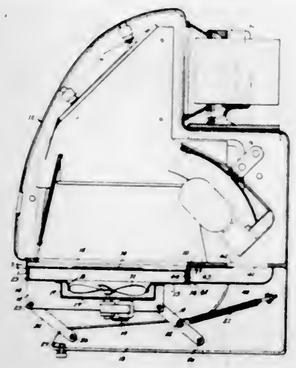
tems carried by each of said auxiliary domes arranged to direct light rays radially therefrom, and light sources for each said lens system.

2,661,655

COPY RETENTION AND HOUSING VENTILATING MEANS FOR OPAQUE PROJECTOR APPPARATUS

Philip M. Field, New York, N. Y., assignor to Charles Beseler Company, Newark, N. J., a partnership

Application October 17, 1950, Serial No. 190,584
4 Claims. (Cl. 88—26)



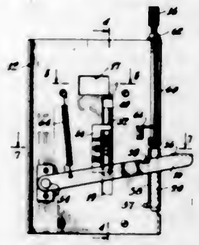
1. In apparatus for projecting from opaque copy an image thereof upon a screen and including a housing for a lamp to illuminate the copy; a horizontal plate portion of the housing provided with an aperture; a platen member provided with an opening coaxial with the aperture for passage of air, said platen member comprising a flat element having upturned ends and downturned sides, one of the upturned ends being provided with an opening through which air above the platen member may be drawn from the interior of the housing; a foraminous copy-receiving element supported by said platen member, the latter being movably supported by the housing below the plate portion for juxtapositioning to the plane of the aperture; and air suction means located beneath the platen member to induce a flow of air through the housing to ventilate the housing interior above the plate portion and to establish through the aperture thereof a differential pressure to retain copy on said copy-receiving element in the projection plane when juxtaposed to the aperture.

2,661,656

FILM STRIP ADVANCING MECHANISM FOR PROJECTORS

Lester Raymond Bangsbergh, Dobbs Ferry, N. Y., assignor to Harvey T. Mann, New York, N. Y.

Application April 3, 1951, Serial No. 219,076
9 Claims. (Cl. 88—28)



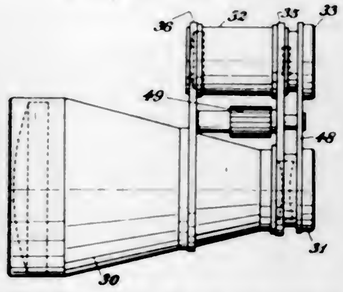
1. In a projector of the class described, the combination of a guideway for a strip of film which has an opening associated with each frame thereof, a member slidably mounted adjacent said guideway for movement longitudinally with respect thereto and having a pair of spaced, rigid stops, a lever pivotally mounted on said member having an arm positioned between said stops and having a second arm formed with an end portion for extending into the frame openings, and manually operable means connected to said lever for sequentially rocking said lever between said stops and then effecting movement of said slidable member upon engagement of one of said stops of said first mentioned arm.

2,661,657

BINOCULAR OBSERVATION INSTRUMENT

James Weir French, Glasgow, Scotland, assignor to Barr & Stroud, Limited, Glasgow, Scotland, a British company

Application August 15, 1947, Serial No. 768,722
Claims priority, application Great Britain September 25, 1946
8 Claims. (Cl. 88—34)



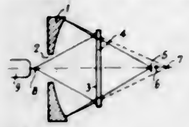
1. A binocular stereoscopic observation instrument for increasing the apparent illumination having two side-by-side optical limbs relatively positioned for two-eyed viewing by an observer and each including an optical telescope system with an objective lens and an eyepiece lens; the diameters of the objective lens and of the light entry aperture thereto of one limb being substantially equal but radically larger than these diameters of the other limb, and including means for producing the same angular field of view in the optical system of each limb whereby the total objective light entry area to the interior of the instrument is greater than in the case where the objective lenses are of equal size.

2,661,658

OPTICAL SYSTEM FOR INCREASING THE WORKING DISTANCES OF MICROSCOPE OBJECTIVES

James Dyson, Aldermaston, England, assignor to Associated Electrical Industries Limited, a British company

Application July 18, 1949, Serial No. 105,430
Claims priority, application Great Britain July 19, 1948
3 Claims. (Cl. 88—39)



1. An optical system for increasing the working distance of a microscope objective, comprising a totally reflecting spherical concave mirror having a central aperture, a transparent plane parallel plate extending normal to the optical axis of the system and a partially reflecting surface extending uniformly on the side of the plane parallel plate which faces the mirror and positioned substantially midway between the spherical concave mirror and its center of curvature whereby complementary object and image positions are formed on an optical axis located adjacent the center of curvature and the rear surface of the concave mirror, and a microscope objective adjacent the rear surface of the concave mirror and in line with the optical axis of said system.

2,661,659

MOUNTING MEDIUM FOR MICROSCOPE SLIDES AND METHOD OF SECURING THE COVER GLASSES THEREFOR

Andrés Ferrari, Jr., Uniondale, N. Y., assignor to Technicon Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application January 27, 1951, Serial No. 208,242
6 Claims. (Cl. 88—40)

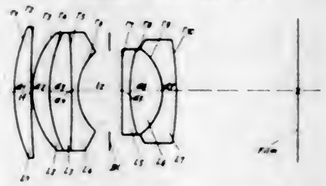
1. The method of securing a cover glass to a glass slide having thereon a specimen of stained tissue, which comprises bonding said cover glass to the slide by means of a water-white coumarone indene resin film having a melting point of from about 150° to about 175° C., an acid number of less than 1 and a refractive index of about 1.650 at 25° C.

2,661,660

OBJECTIVE COMPRISING THREE LENS MEMBERS AXIALLY AIR SEPARATED FROM EACH OTHER IN OPTICAL ALIGNMENT

Ludwig Bertele, Heerbrugg, Switzerland

Application January 19, 1952, Serial No. 267,271
1 Claim. (Cl. 88—57)



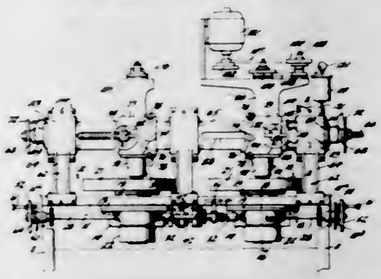
Objective substantially comprising three lens component members axially separated from each other by air spaces of which the first said member directed towards the object is of convergent power and has a refractive index n_1 for the d-line and an Abbe Number v_1, the second said member is bent towards the object and composed of single lenses the first lens of which adjacent the said first member having a refractive index n_2 and an Abbe Number v_2, and another lens of said second member being of divergent power, and the third said member is of convergent power and includes two lenses cemented together, the cemented surface being strongly bent towards the image, the refractive index of the lens adjacent the concave side of said surface being higher than the index of the lens adjacent its convex side, the first air space being in the form of a diverging lens with its less curved surface directed towards the object and the second air space being of the form of a converging lens with its less curved surface directed towards the image, the axial thickness of the second said lens component member being chosen between 0.12 f and 0.26 f, f being the total focal length of the objective, the values of n_1; v_1 and n_2; v_2 being chosen so that the product of $(n_1-1)\cdot(n_2-1)\cdot(v_1+v_2)$ is greater than 45.0 and smaller than 60.0, and the number of refractive index for the d-line of said diverging lens of the second said lens component member being chosen smaller than 1.680.

2,661,661

DUPLICATING MILLING MACHINE

Carl Michael Zoll, New Orleans, La., assignor to Hydro Power, Inc., New Orleans, La.

Application September 21, 1951, Serial No. 247,657
9 Claims. (Cl. 90—13.3)



1. In a duplicating milling machine, a base, a spaced pair of turn-tables rotatably supported on said base, driving means for synchronously rotating said turn-tables, a follower associated with one of said turn-tables, a cutter associated with the other turn-table, upstanding guide yokes mounted on said base, a beam slidably supported in said yokes for longitudinal movement over said base, carriages carried by said beam above said turn-tables and respectively supporting said follower and said cutter, and hydraulic pressure means constantly urging the beam in one direction.

2,661,662

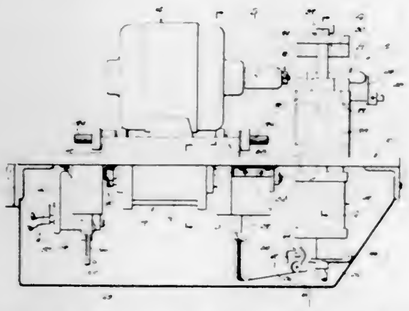
AUTOMATIC MACHINE FOR MILLING THE ENDS OF HANDLES OR THE LIKE

Rolland G. Hall, Yalesville, Conn., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a corporation

Application March 10, 1948, Serial No. 14,004
6 Claims. (Cl. 90—14)

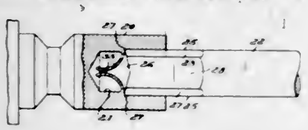
2. A machine of the character described comprising a rotary machining tool, means for releasably clamping the work in position for engagement by said tool, an electric motor for rotating

said tool and on which said tool is mounted, means mounting said motor for movement toward and away from said clamping means to engage said tool with and disengage the same from the work, power operated means for moving said motor toward and away from said clamping means, manually operable control means for causing operation of said power-operated means to move said motor toward said clamping means, and automatic control means operated in timed relation with the movement of said motor toward said clamping means for causing operation of said power operated means to move said motor away from said clamping means, other power operated means for actuating said clamping means, and other control means responsive to the



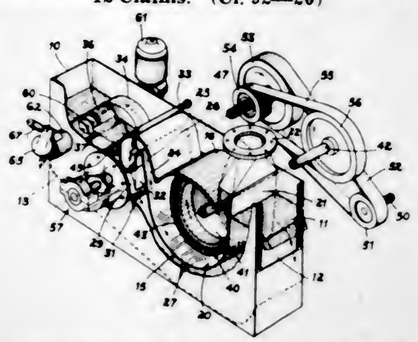
movement of said motor for causing said other power-operated means to clamp and release the work during movement of said motor toward and away from said clamping means, respectively, whereby said work is releasably clamped after movement of said motor towards said clamping means, said other control means comprising structure in fixed relation relative to said motor mounting means and switching means operatively associated with said structure, said switching means including a normally opened switch and a normally closed switch, the former switch being adapted to close on the predetermined movement of said motor in one direction and the latter switch being adapted to open to limit the movement of said motor in said one direction.

2,661,663
PUNCHING METHOD AND TOOL
Earl W. Brinkman, Gates, N. Y., assignor to Davenport Machine Tool Co., Inc., Rochester, N. Y., a corporation of New York
Application March 30, 1948, Serial No. 17,869
9 Claims. (Cl. 90—24)



6. A tool for punching a non-circular opening in a workpiece comprising a bar having cutting edges formed by the intersections with its transversely extending free end of spaced angular surfaces extending longitudinally along opposite sides of said bar, said bar having its sides between said surfaces reduced to clear the sides of said opening and having said free end thereof formed with a cutting rake, for simultaneously forming opposite angular side portions of said opening at each punching stroke of said tool.

2,661,664
PAPER MACHINERY
Joseph Baxter, Jr., Franklin, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application July 21, 1951, Serial No. 238,001
12 Claims. (Cl. 92—20)

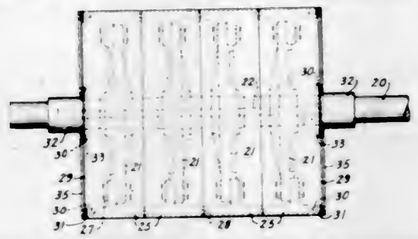


1. Apparatus for screening and pulping a liquid slurry stock comprising a casing forming a tank adapted to be filled with liquid, a shell forming a first chamber of substantial length within said tank having an inlet for said stock, said shell including a perforate lower wall for discharging particles below a predetermined maximum size into said tank, an impeller rotatable on an axis generally lengthwise of said first chamber causing essentially circumferential travel of said stock while reducing large particles therein, a second shell forming a second chamber within said tank separate from said first chamber, means forming a passage extending substantially the entire length of said first chamber and connecting with said second chamber for receiving by circumferential discharge from said first chamber particles of greater than said maximum size and delivering said particles to said second chamber, said second shell including a perforate lower wall for discharging particles below a predetermined maximum size into said tank, an impeller mounted for rotation within said second chamber for beating said stock to effect further reduction of large particles therein and discharge of the resulting smaller particles into said tank, means for effecting a prolonged dwell of said large particles in said second chamber, a third shell forming a third chamber within said tank connected to receive from said second chamber particles of a size too great for passage through said perforate second shell wall, means within said third chamber for compacting particles received therein, said third shell having a perforate wall for discharging liquid from said compacted particles into said tank, and means for removing said compacted particles from said third chamber substantially free of liquid.

2,661,665
BEATER MECHANISM FOR TREATING PAPERMAKING MATERIAL
William V. Knoll, Dayton, Ohio
Application April 13, 1950, Serial No. 155,635
5 Claims. (Cl. 92—22)

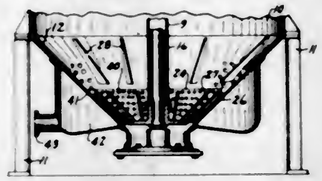
1. In an apparatus of the character described for treating paper-making material, the combination of a shaft; a plurality of solid or one-piece spiders secured on the shaft at properly spaced intervals, said spiders each having a plurality of radial legs; a solid or one-piece drum member for each spider; and projections on the

interior of each drum member arranged to be removably connected to the corresponding spider legs to form a hollow cylinder of said drum members, said projections forming recesses in the drum members which provide clearance for the



spider legs when said drum members are disconnected from said spiders and rotated slightly in relation thereto to permit removal or installation of any or all of said drum members for replacement or repair without disturbing any of the spiders.

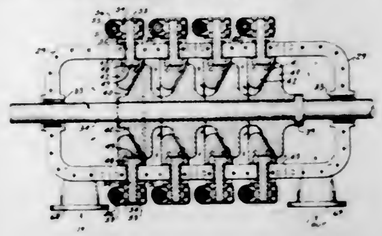
2,661,666
APPARATUS FOR PULPING PAPERMAKING MATERIAL
William V. Knoll, Dayton, Ohio
Application February 1, 1949, Serial No. 74,031
4 Claims. (Cl. 92—23)



1. In a machine of the class described, constructed and arranged for the continuous pulping of paper-making material, the combination of a cylindrical pulping tank having an inverted frusto-conical bottom, and a circular chamber formed beneath the conical bottom and connected to the interior of said tank by screening openings in said conical bottom, said circular chamber having a discharge opening; a pan-shaped agitator constructed for high-speed rotation, said agitator comprising a flat bottom portion and an integral side wall portion tapered outwardly and upwardly to match the taper of the conical tank bottom and to form an opening that is substantially larger than the flat bottom portion, said agitator being secured on the drive shaft in such a manner that the tapered side wall portion thereof is in closely spaced relationship to the conical tank bottom, said side wall portion having screening openings therein which are located opposite the similar openings in the conical tank bottom; radial vanes equally disposed on the inner and outer faces of the tapered side wall portion of the agitator; radial vanes equally disposed on the inner conical surface of the tank bottom immediately adjacent the upper edge of the tapered side wall portion of the agitator; and means connecting with the upper end of the shaft to drive said shaft and the agitator at comparatively high speed to cause said agitator, in conjunction with the vanes, to circulate the paper-making material outwardly and upwardly to create a vortex above said pan-shaped agitator to cause the paper-making material to be drawn downwardly into said pan-shaped agitator and recirculated thereby until it becomes of proper fineness to pass through the screening openings in the tapered side wall portion of said agitator and in the conical tank bottom, and enter the circular chamber where said paper-making material is continuously drawn out of the discharge opening

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2,661,667
APPARATUS FOR REFINING PAPERMAKING MATERIAL
William V. Knoll, Dayton, Ohio
Application April 13, 1950, Serial No. 155,634
2 Claims. (Cl. 92—26)

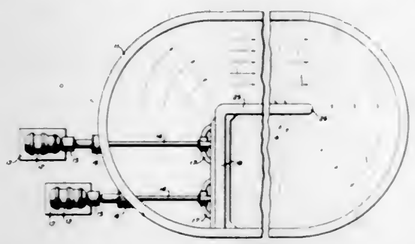


1. In a machine of the character described, for treating the fibers of paper-making material to reduce said fibers to the required fineness for paper-making, the combination of a base; cylindrical center sections connected together and mounted on the base; end portions formed of symmetrical halves connected together and connected to the opposite end faces of the center sections to form a cylindrical body portion, said end portions having inlet and outlet openings therein to permit the flow of paper-making material through said cylindrical body portion; a rotatable drive shaft passing through the center of the cylindrical body portion and journaled in uprights secured to the base; a plurality of solid plug members fixedly mounted on the shaft in abutting relationship to each other and arranged to rotate in unison with said shaft, said plug members having angular pulp-treating faces with a plurality of brushing ridges thereon; an annular drum element for each plug member, said drum elements encircling the shaft and being a slidable fit within the cylindrical body portion, said drum elements being formed of symmetrical halves bolted together so as to be readily removable from around said shaft for convenient replacement and repair; a pair of diametrically opposed cam slots in the peripheries of each of the drum elements; a pair of diametrically opposed cam members supported in the cylindrical body portion and engaging the cam slots of the corresponding drum elements; and means to rotate each pair of cams in unison to slide the drum elements back and forth in the cylindrical body portion to adjust the angular faces and brushing ridges of each drum element in relation to the angular faces and brushing ridges on the corresponding plug members, said cams and said slots also acting to hold the drum elements against rotation within the cylindrical body portion.

2,661,668
PULP STORAGE TANK CURRENT CONTROL
Ernest J. Gruen, Carteret, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 18, 1950, Serial No. 150,440
2 Claims. (Cl. 92—37)

1. A horizontally oblong storage tank for pulp slurry having a midfeather wall extending longitudinally of the tank and terminating short of

the ends thereof means disposed within and adjacent the bottom of the tank near one end of the wall for causing the slurry to circulate in a circuitous path around the near and far ends of the wall at a rate sufficient to maintain the pulp in dispersed suspension when the level of the slurry in the tank is at an intermediate level,



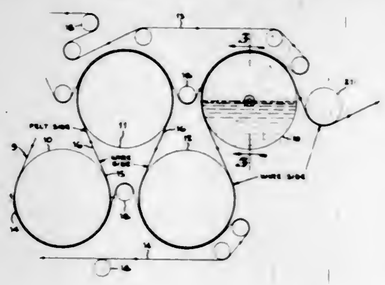
said means being insufficient to prevent the formation of dead pockets adjacent the far end when the slurry is at high levels in the tank, said wall having a plurality of spaced apertures disposed in a group in its upper portion adjacent its far end to prevent the formation of dead pockets when the slurry is at high levels in the tank.

2,661,669

PROCESS AND APPARATUS FOR AVOIDING CURL IN MACHINE-MADE PAPER

Valentine Friedrich, Jr., Hamilton, Ohio, assignor to The Beckett Paper Company, Hamilton, Ohio, a corporation of Ohio

Application February 14, 1951, Serial No. 210,948
3 Claims. (Cl. 92—38)



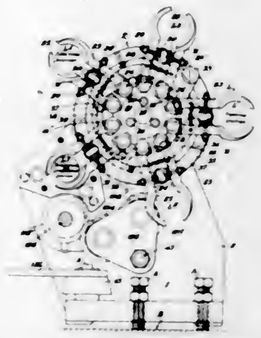
1. The method of manufacturing, on a Fourdrinier paper making machine, a web of paper which does not display a tendency to curl, the said method comprising, forming a web of paper on a wire of a Fourdrinier machine, progressively drying the paper in the Fourdrinier machine by contacting alternate sides of the paper with drying rolls heated to a temperature higher than approximately 200° F., while respectively opposite sides of the paper are simultaneously engaged by a moisture absorptive papermakers' felt, and continuing the drying operation until the web of paper contains less than about 6½% of moisture, then passing that side of the paper web which was initially laid upon the wire of the Fourdrinier machine over a substantially dry surface of a roll which is maintained at a temperature in the range of approximately 150° to 170° F., and simultaneously contacting the opposite side of the portion of the paper engaging the said roll with the said papermakers' felt of the Fourdrinier machine while the said papermakers' felt is in a hot and humid condition, the specific temperature within the said range being so selected that a paper which is substantially free from the tendency to curl is produced.

2,661,670

MACHINE FOR MAKING PLEATED METAL FOIL CAPSULES

Denis Easthope Railton, East Burnham, and Frederick White, Maidenhead, England; said Railton assignor of one-half of his share to Ideal Capsules Limited, and said White assignor to Ideal Capsules Limited, Slough, England, a company of Great Britain

Application October 10, 1950, Serial No. 189,342
9 Claims. (Cl. 93—60)



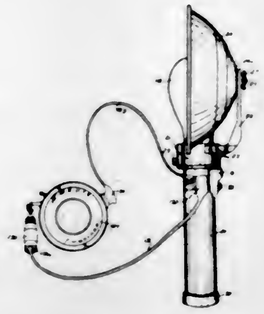
1. In a machine for making pleated metal foil capsules from a continuous web having a plurality of work stations including a forming station comprising a forming plunger and a matrix adapted to receive said plunger and cooperating therewith to form a succession of pleated metal foil capsules, a smoothing station comprising a cone and a smoothing plunger movable into and out of said cone and operated in timed relation to said forming plunger to move said capsules into said cone and to smooth and reduce the size of said capsules subsequent to their formation followed by movement of said capsules out of said cone with said plunger, and an ejection station comprising a discharge plunger, the combination therewith of transfer means for successively conveying said capsules from one work station to another, said transfer means comprising a rotatable table having a plurality of symmetrically arranged pockets adapted to be successively aligned with work stations and being adapted to permit capsules to be pushed from said pockets into said cone by said smoothing plunger, said pockets comprising pairs of fingers, said fingers of each pair being relatively movable to vary the size of the pocket formed thereby, means operatively connected to said table adapted intermittently to rotate said table to bring another pocket into alignment with each of said work stations, and means operable when said smoothing plunger has pushed a capsule from one of said pockets into said cone and before withdrawal of said smoothing plunger from said cone for moving the pocket fingers relatively towards each other to make said pocket smaller to conform to the capsule which has been reduced in size by movement of said smoothing plunger into said cone and which is to be returned to said pocket upon withdrawal of said plunger.

2,661,671

FLASHING UNIT ASSEMBLY FOR PHOTOGRAPHIC EXPOSURE EQUIPMENT

Irving Jacobson, Hollywood, Calif., and Clinton F. Brundage, Macedon, and Milford B. Moore, Rochester, N. Y., assignors to Graflex, Inc., Rochester, N. Y., a corporation of Delaware

Application April 22, 1948, Serial No. 22,614
15 Claims. (Cl. 95—11.5)



1. A flashing unit assembly for photographic exposure equipment comprising, in combination, a battery case having electrical connections for a battery positionable therein and having a plurality of electrical outlet terminals whereby operating connection may be made to any one of a plurality of types of associated photographic exposure equipment, and also having an operating switch, a plurality of contacts, one of which is connected to one side of the operating switch and also to an outlet terminal for one type of photographic exposure equipment, another of which is connected to an outlet terminal for another type of photographic exposure equipment, and a third of which is connected to an outlet terminal for a third type of photographic equipment, current conductors extending between and connecting each of said types of photographic equipment and the said contacts, a current conductor connecting the first-named contact with one side of the battery and a selector switch, said selector switch being manually movable to connect selectively any two of said plurality of contacts, and said operating switch being manually movable to establish electrical operating connections through its terminals between the contacts which are connected by the selector switch and the other side of the battery.

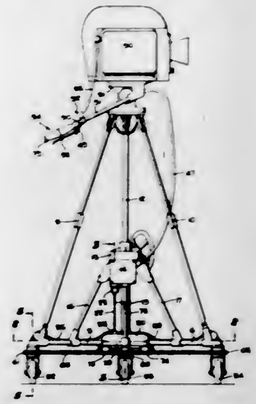
2,661,672

TRIPOD MECHANISM

Jerry B. Fairbanks, Los Angeles, Calif.

Application June 15, 1950, Serial No. 168,220
9 Claims. (Cl. 95—86)

1. A tripod mechanism comprising: a framework; a plurality of wheels supporting said framework; means for simultaneously rotating all of said wheels, said means including a shaft bearing having a vertical axis for each of said wheels, a sprocket on each of said bearings, a chain interconnecting said sprockets, a drive sprocket, a rotatable handle, a flexible shaft connected to said handle, and gears connecting said flexible shaft to said drive sprocket; brake elements mounted on said framework and positioned adjacent each of said wheels, operable to hold said wheels against rolling, and means associated with said handle and extending therefrom to said brake elements and manually operable to actuate said brake elements to hold said wheels against rolling.

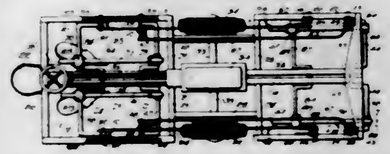


2,661,673

MOTOR PLOW

George A. Branson, Mountain Home, Idaho

Application March 23, 1949, Serial No. 82,969
3 Claims. (Cl. 97—29)



1. An apparatus of the character described comprising a horizontal frame having a recess centrally in each side thereof, a drive wheel in each of said recesses, an axle for said drive wheels carried by the frame, an engine for supplying power to the drive wheels mounted on the frame over said axle, a vertically extending steering column mounted centrally adjacent the rear of the frame, a dirigible supporting wheel at the lower end of the steering column, an operator's seat mounted upon the frame adjacent the steering column, a pair of plows mounted adjacent the forward end of the frame and below the sides thereof, a pair of plows mounted adjacent the rearward end of the frame and inwardly from the sides thereof, manually operable means for raising and lowering the plows on one side of the frame, and independent manually operable means for raising and lowering the plows on the other side of the frame.

2,661,674

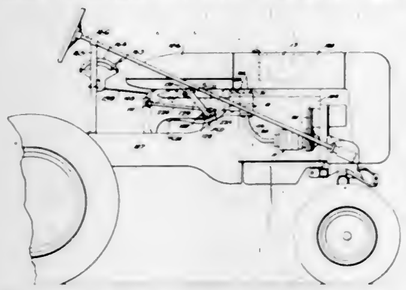
VEHICLE MOUNTED HYDRAULIC TYPE POWER TRANSMITTING UNIT

Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corperation of New Jersey

Original application December 31, 1943, Serial No. 516,470. Divided and this application March 23, 1948, Serial No. 16,574
4 Claims. (Cl. 97—46.59)

4. In an auxiliary power unit for mounting upon the body of a tractor at an end of the vehicle engine, an L-shaped casing having a horizontal open-bottom motor-receiving leg for connection

at its free end with said engine and a U-section leg projecting downwardly from the other end of the horizontal leg for resting on the tractor body and disposed with its open side facing the space partially embraced by such L-shaped casing, a



horizontal rock-shaft-receiving bearing in and directed transversely of said horizontal leg adjacent to its one end, and motor-attaching means in the casing substantially at the junction of said legs.

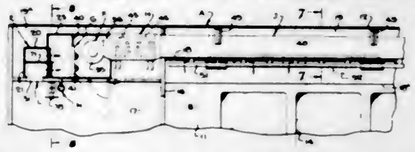
2,661,675
ONE-WAY DISK HARROW OR PLOW
Russell W. Fyke, Sceptre, Saskatchewan, Canada, assignor to S. J. Safian, Regina, Saskatchewan, Canada
Application February 1, 1946, Serial No. 644,899
4 Claims. (Cl. 97—53)



2. A tillage implement of the combined one-way disc-harrow and seeder type comprising in combination a wheel-carried, longitudinally adjustable, liftable and rotatable beam disposed transversely of the line of draft, a plurality of disc sections each having an axle shaft with a pair of bearings and discs spaced therealong, a pair of longitudinally adjustable, two part brackets secured on and rotatable with said liftable and rotatable beam for each disc section, a supporting arm rigid with and extended rearwardly from the top of each bracket, an angle iron overlying each pair of said arms, connecting posts between said bearings and said angle irons, compressed coil springs held by said bars and bearing downwardly on said angle irons, a draw bar from the underside of each bracket to one of the said bearings, a laterally offset equalizer bar at the forward bearing of each section, a rod from the forward end thereof to the other bearing, a second rod from the centre of the equalizer reaching forwards in the other direction and an adjustable clamp on the beam for each of said second rods.

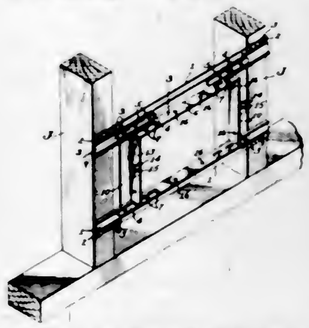
2,661,676
APPARATUS FOR MAINTAINING PREDETERMINED ATMOSPHERIC CONDITIONS IN COMPARTMENTS
Richard S. Farr, Los Angeles, and Willard A. Woodworth, San Francisco, Calif., assignors to Farr Company, Los Angeles, Calif., a corporation of California
Application January 21, 1948, Serial No. 3,648
3 Claims. (Cl. 98—10)

1. In combination, a vehicle body defining a compartment, an air receiver, a first air inlet duct having an inlet opening at the exterior of the body and a receiver opening for admitting fresh air from the exterior of the body to the air receiver; a second air inlet duct having an inlet opening communicating with the compartment and a receiver opening for admitting air from the compartment to the air receiver, said receiver openings being adjacent each other, a movable damper located adjacent said receiver openings, said damper, in one position, completely blocking flow of air through one of said receiver openings to said air receiver and permitting flow of air through the other of said receiver openings, and in another position completely blocking flow of air through the other



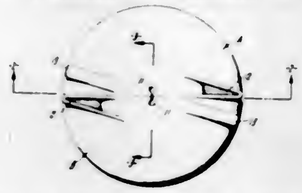
of said receiver openings to said air receiver and permitting flow of air through said one of said receiver openings, and said damper being positionable between said completely blocking positions to proportion the amount of air admitted to said air receiver through said receiver openings; a control means in the inlet opening of said second duct for governing air flow through said duct; an air filter in the receiver; a blower receiving air from the receiver and delivering it into the compartment under pressure; and an air outlet remote from the inlet ducts, control means, and damper, and passing air from the compartment to the exterior thereof at a point remote from the blower.

2,661,677
REGISTER FRAME
Richard Conrad Lingelbach, Hastings, Nebr.
Application September 3, 1948, Serial No. 47,697
2 Claims. (Cl. 98—114)



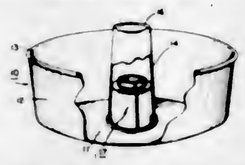
1. Conduit frame comprising independent side and end elements all of rigid right angle cross section, the side elements having the edge portion of one flange offset with respect to the inner portion and the latter portion formed adjacent each end with depressed longitudinally extending guideways, the other flange of said side elements formed with spaced weakened breakoff slits, the end elements each having one flange formed of U-shape with aligned guiding studs formed in its end parts, said studs adapted to seat in the guideways of the side elements and arranged to maintain said side and end elements in predetermined angular relationship, the other flange of the end elements formed with offset lugs to provide a seat for a grill plate.

2,661,678
TEAPOT SET
Antony P. Freeman, San Francisco, Calif.
Application October 2, 1948, Serial No. 52,449
2 Claims. (Cl. 99—295)



1. A twin pot set consisting of identical halves formed with flat inner walls and contacting each other in a vertical plane, said walls being provided with registering filling openings in the upper portions thereof, and a cord slot formed in the top of each half and communicating with said openings.

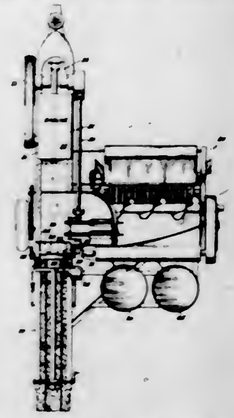
2,661,679
COMBINATION CAKE PAN AND SUPPORT
Walter Van Guilder, River Forest, Ill., assignor to General Mills, Inc., a corporation of Delaware
Application April 12, 1949, Serial No. 87,035
10 Claims. (Cl. 99—428)



1. In combination, a cake pan having a central tube with an upper end, and a cake pan support selectively and removably mounted in a storage position within the tube, the support having means engaging the tube and normally retaining the support in storage position when the pan is moved, and the support also having a shouldered portion on which the upper tube end may be selectively mounted to hold the pan and tube in inverted position above the support when the latter is withdrawn from said storage position.

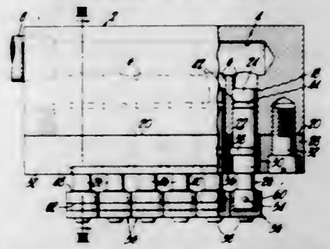
2,661,680
TWISTER MECHANISM AND BALE TIE
Joseph C. Leary, Greenfield, Ind.
Application January 27, 1951, Serial No. 208,155
20 Claims. (Cl. 100—20)

1. For use with a baler comprising a baling chamber and a plunger reciprocable longitudinally with respect thereto, wire-joining mechanism carried adjacent one wall of said chamber near the inlet end thereof, anchorage means positioned adjacent said wire-joining mechanism and having spaced abutments adapted to engage longitudinally spaced points on a wire strand having a bight disposed in said chamber to support and retain therebetween a first section of said strand, a needle normally carried outside an opposite wall of said chamber, a source of supply of wire, means on said needle engaging longitudinally spaced points on said wire strand between said source and said bight to support therebetween a second section of said strand, means for shifting said needle to traverse said chamber, said needle cooperating with said anchorage means to move said second strand section into juxtaposition to said first strand section, means for turning said anchorage means to reverse the positions of said abutments, thereby inverting the position of said first section before said needle



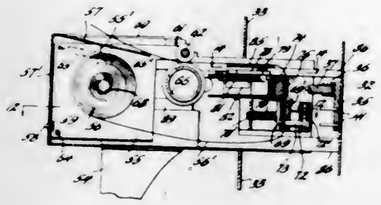
completes its traversal of said chamber, and means for entering said first and second strand sections, while in juxtaposition, into said wire-joining mechanism for joint treatment thereby.

2,661,681
HAND STAMP FOR MARKING METAL SLABS OR THE LIKE
Lloyd H. Fenstermaker, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application October 31, 1951, Serial No. 254,163
5 Claims. (Cl. 101—4)



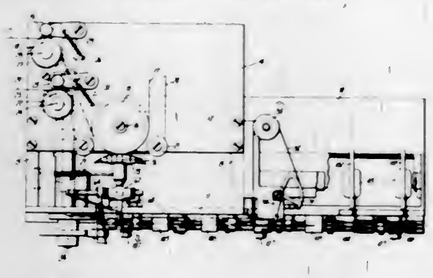
1. A device for stamping identity markings on an object comprising a striking head member having an elongated handle affixed thereto, a constant volume hydraulic-fluid barrel in said head member having a series of aligned openings through one side thereof, said head member having a plurality of aligned bores therein positioned normal to said barrel and extending therefrom to one face of said head member, each of said bores communicating with one of said openings, an elongated retainer block having a plurality of aligned counterbored holes therethrough affixed to the bored face of said head member with said counterbored holes in registry with the open ends of said bores, the reduced diameter ends of said counterbored holes forming a shoulder remote from the bored face of said head member, a piston slidingly fitted in each of said bores with one end slidingly fitted in the opening communicating with the bore and its other end passing through and projecting from one of said counterbored openings in the retainer block, a marking die detachably affixed to the projecting end of each of said pistons, and means for limiting the movement of said pistons.

2,661,682
AUTOMATIC STORE
Clarence Saunders, Memphis, Tenn., assignor, by mesne assignments, to Automatic Systems Corporation, Memphis, Tenn., a corporation of Tennessee
Application August 30, 1945, Serial No. 613,571
14 Claims. (Cl. 101—19)



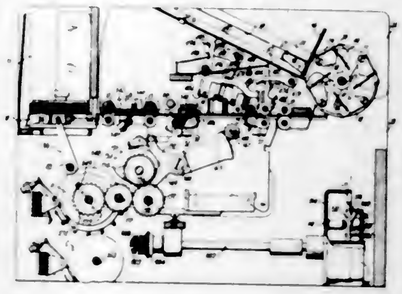
6. In an automatic store, the combination of a structure providing a plurality of display spaces, a pocket adjacent each display space, a slug of type in said pocket, a key adapted to enter any of said pockets, a platen mounted in the key, means for guiding a strip of paper and an inked ribbon across the platen, means on said structure for forcing the platen against the type with the paper and ribbon interposed between the platen and the type, a manually operative member on said structure, and connections from said member to the key for moving a part thereof toward the bottom of the pocket to cause the printing operation to take place.

2,661,683
HIGH SPEED PRINTING MECHANISM
Horace S. Beattie, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application February 17, 1948, Serial No. 8,929
10 Claims. (Cl. 101—93)



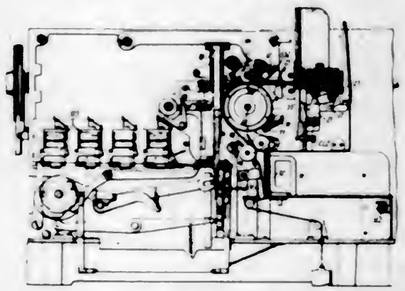
1. In a printing apparatus, a type carrier having a surface forming part of a sphere and having a plurality of characters arranged in a great circle on said surface, means for mounting said carrier for oscillation on its spheric center, means normally biasing the carrier in one direction, restraining means therefor, a device for releasing said restraining means to enable the biasing means to rock the carrier in said one direction a fixed predetermined extent, a further device for rocking the carrier in the opposite direction against its biasing means a fixed extent less than said predetermined extent, and means for selectively rendering either or both of said devices effective, whereby the carrier will rock through a distance equal in extent and direction to either of said extents or to the resultant of the devices operated, respectively.

2,661,684
CHECK WRITING INTERPRETER
Eugen Buhler, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 6, 1949, Serial No. 85,892
15 Claims. (Cl. 101—93)



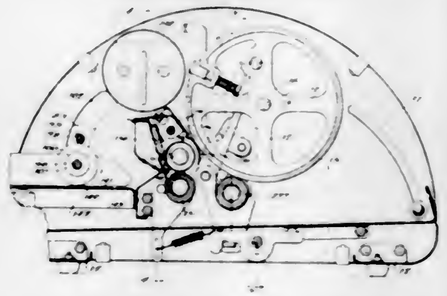
1. A card sensing and printing machine comprising, in combination, means for feeding cards perforated in a column one at a time through the machine, a plurality of sensing stations, each station having a sensing device for sensing the same perforations in said column, adjustable members for printing data derived from the card, means operating under the control of one of said sensing devices for adjusting one of said members in a position for printing data represented by the perforations sensed, and means operating under the control of each of said sensing devices for adjusting another of said members to a corresponding printing position.

2,661,685
CARD CONTROLLED PRINTING MACHINE
Harold Hall Keen, Letchworth, England, assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 14, 1949, Serial No. 87,508
9 Claims. (Cl. 101—93)



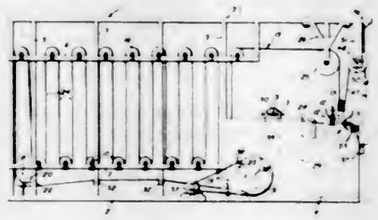
1. A machine for printing on blank cards the data derived from perforated cards comprising, in combination, means for sensing perforations in said perforated cards, means for advancing said perforated cards past said sensing means one at a time, adjustable members for printing data upon the blank cards, means controlled by said sensing means for adjusting said print members, means for feeding said blank cards to positions for printing by said print members, said feeding means including a feed roll, means for intermittently rotating said feed roll, said last mentioned means including a gear, means for transmitting rotating movements of said gear in only one direction to said feed roll, a rack operatively engaging said gear, a cam having a cam surface engageable with said rack for moving the latter in a direction to effect rotation of said feed roll, means for yieldingly urging said rack toward said cam surface, and means engageable with said rack after it is first actuated by said cam for limiting its return movement.

2,661,686
DUPLICATING MACHINE
Carl A. Levin, Park Ridge, and Robert W. Quirk, Chicago, Ill., assignors to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application April 25, 1949, Serial No. 89,384
7 Claims. (Cl. 101—132.5)



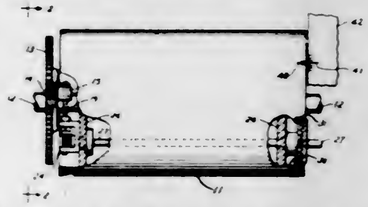
1. In a duplicating machine, a drum, means for rotating said drum, a sheet feeding and moistening roller, a feed tray adapted to support a stack of sheets, a roller for removing a sheet from said stack and feeding said sheet to said feeding and moistening roller, and means for intermittently and successively rotating said rollers upon rotation of said drum, comprising a member moved back and forth between two alternative positions by rotation of said drum, a pair of rotatable members, a gear drive between said first member and said rotatable members simultaneously rotating said rotatable members in opposite directions, said gear drive including a gear train connecting said rotatable members and means connecting said rotatable members with said rollers to rotate said rollers with said rotatable members only in a sheet feeding direction.

2,661,687
APPARATUS FOR PRINTING CONTINUOUS DESIGNS ON ROLL PAPER AND THE LIKE
William B. Chance, St. Clairsville, Ohio
Application August 24, 1951, Serial No. 243,428
3 Claims. (Cl. 101—212)



1. Apparatus for printing a design on flexible material comprising a frame, a pair of upper and lower impression rollers mounted on said frame and geared together for drive of the lower roller by the upper roller, an endless belt within the confines of said frame trained around the upper roller to travel between said rollers in driving relation to the upper roller, horizontal series of upper and lower rollers in said frame over which said belt travels and forming vertical closely spaced loops in said belt whereby a comparatively long belt may be accommodated in a relatively shorter frame, a drive for the belt, printing plates spaced along said belt to travel between the impression rollers in facing relation to the lower impression roller, the lower series of rollers being hollow, perforated and ink containing for inking said plates under the action of centrifugal force means on said frame between said lower a roll of material for feed between said lower roller and said plates for printing on the material, said lower impression roller feeding said material from said roll, a rewind roller on said frame, and a drive from the lower impression roller frictionally engaging the material on said rewind roller to rewind the same.

2,661,688
ADJUSTING MECHANISM FOR MASTER COPIES ON DUPLICATING MACHINES AND THE LIKE
Mustafa J. Ajam, Amherst, N. H., and Joseph R. Paradis, Malden, and Carl A. Bergman, Melrose, Mass., assignors to Standard Duplicating Machines Corporation, Everett, Mass., a corporation of Massachusetts
Application October 4, 1950, Serial No. 188,392
4 Claims. (Cl. 101—248)

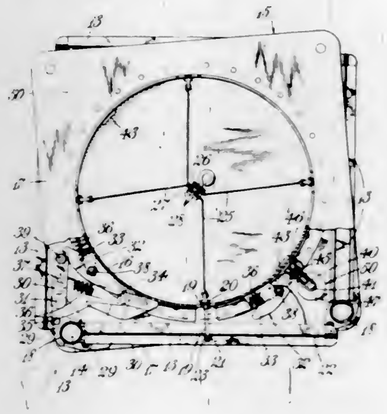


1. In a liquid duplicating machine or the like and in combination with a drum and a driven gear therefor coaxial with the drum the means for shifting the drum and the gear angularly with respect to each other which comprises a stud in engagement with the driven gear, a screw shaft threadedly engaging the stud, a bevel gear on said screw shaft, a shaft carried by the drum, a yoke having bearings for the screw shaft and being pivotally mounted on the drum and to support the screw shaft for pivotal movement relative to the drum and provided with a bearing for the shaft on the drum, a second bevel gear on the said shaft and engaging the first mentioned bevel gear, and a thumb wheel on the shaft carried by the drum.

2,661,689
HOLDING MEANS FOR PROJECTILE FINS
Evelyn Cecil Muschamp d'Assis Fonseca, Bristol, England, assignor to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application February 16, 1949, Serial No. 76,812
Claims priority, application Great Britain May 10, 1948
3 Claims. (Cl. 102—7)

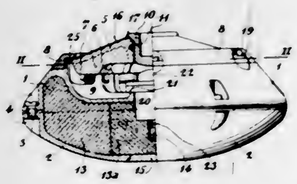
1. For a projectile, a fin assembly comprising a frame having an open ended slot therein, a plurality of fins having open ended slots pivotally mounted on the frame, means urging each fin from a folded position against the frame to an

extended position projecting from the frame, separate catch pins having a pair of axially spaced heads, the shank of the pin being adapted to enter the open ended slots in said frame and fin so that the force urging the fin to its extended position is taken by the heads of the pin, a plurality of separately folded radiating arms, an



anchorage centrally of the arms, means releasably connecting the separately folded arms to said anchorage, means connecting each arm to one of the separate catch pins, and means for simultaneously releasing the separate catch pins from all the fins and for simultaneously connecting the fins to the central anchorage by said radiating arms.

2,661,690
LAND MINE
Albert Fernand Marie Diels, Balen-Wezel, Belgium, assignor to Poudreries Reunies de Belgique S. A., Bruxelles, Belgium
Application May 16, 1950, Serial No. 162,288
Claims priority, application Luxembourg March 2, 1950
2 Claims. (Cl. 102—8)



1. A non-metallic land mine comprising an envelope, an explosive and a percussion device in said envelope, an axially movable cover closing said envelope and an elastically deformable ring between said cover and said envelope, said cover and said envelope each having a plurality of integral internal radial ribs engaging said ring, said radial ribs on the cover, alternating with the radial ribs on the envelope to elongate said ring when said cover is moved through an external pressure so as to contact and operate said percussion device.

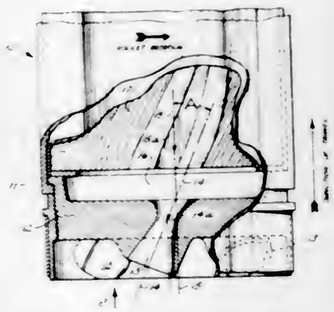
2,661,691
PROJECTILE
Edgar William Brandt, Geneva, Switzerland, assignor to Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen Energa, Vaduz, Liechtenstein, a corporation of Liechtenstein
Application January 4, 1950, Serial No. 136,824
Claims priority, application Switzerland January 17, 1949
7 Claims. (Cl. 102—49)



1. In a rocket projectile, a combustion chamber for a propelling charge, stabilizing fins on said chamber, each two successive fins being arranged obliquely and symmetrically with respect to an intermediate plane containing the longitudinal axis of said projectile.

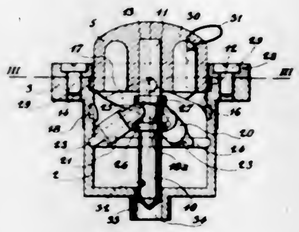
5. In a rocket projectile, a combustion chamber for a propelling charge, stabilizing fins on said chamber, a plug at the rear of said chamber, and a series of nozzles in said plug, each of said nozzles including on its internal face a rearwardly directed conical recess, said recess being located on the part of said internal face opposite to that which is directed in the sense of rotation of the projectile, said recess imparting a rotation to the projectile.

2,661,692
HELICAL GAS FLOW CHANNEL FOR SOLID PROPELLANTS
Conrad R. Vegren, Washington, D. C.
Application May 7, 1952, Serial No. 286,588
7 Claims. (Cl. 102—49)
(Granted under Title 35, U. S. Code (1952), sec. 266)



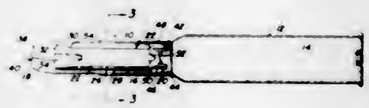
1. A rocket grain of solid propellent fuel having a plurality of longitudinally extending channels spaced angularly about its longitudinal axis, each channel extending in a helical direction about said axis and between opposite ends of the grain to provide exposed burning surfaces on the grain, the channels being adapted to carry gaseous products of combustion, as said surfaces burn, for delivery from one end of the grain in a plurality of angularly spaced streams of gas, each stream issuing from its carrying channel in a direction canted to a longitudinal direction of the grain.

2,661,693
PERCUSSION DEVICE FOR LAND MINES
Albert Fernand Marie Diels, Balen-Wezel, Belgium, assignor to Poudreries Reunies de Belgique S. A., Brussels, Belgium
Application May 16, 1950, Serial No. 162,289
Claims priority, application Luxembourg March 2, 1950
5 Claims. (Cl. 102—70)



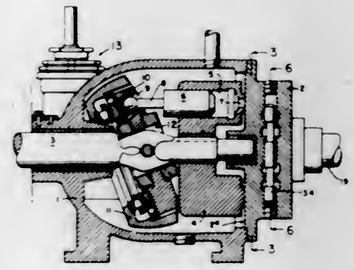
1. A percussion device for land mines, including a casing, an axially movable cover closing said casing, an axial percussion rod in said casing, said axial percussion rod cooperating with said cover, a primer in front of the extremity of said axial percussion rod, reaction means retaining said axial percussion rod in position, said reaction means comprising elongated elastic elements at 120° to one another around said axial percussion rod and obliquely disposed in relation thereto, each of said elongated elements being pivoted on one end on the casing and at the other end on said axial percussion rod, said elongated elements being adapted to be longitudinally compressed when said axial percussion rod is moved through a predetermined pressure operating on said cover, said elongated elastic elements being thus subjected to a rocking movement, after passing through a position of instable equilibrium in order to move said axial percussion rod into striking engagement with the primer.

2,661,694
SPREADER PANEL BULLET
James E. Allen and William H. Cantrell, Thayer, Mo.
Application May 12, 1950, Serial No. 161,574
2 Claims. (Cl. 102—91)



1 A bullet comprising a projectile body having a nose portion and a plurality of circumferentially spaced longitudinal pockets, a base at the end of the body remote from the nose, a splint in each of the pockets, an inwardly tapered key disposed in the body adjacent the nose and having a plurality of peripherally spaced longitudinally extending recesses therein receiving the splints, an axial core member secured to the base and having circumferentially spaced notches slidably and removably receiving the splints, and an actuating plunger embedded in the nose, said key having a bore receiving said plunger.

2,661,695
REDUCTION OF NOISE AND SHOCK IN POWER PUMPS
Walter Ferris, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 21, 1950, Serial No. 175,190
4 Claims. (Cl. 103—3)



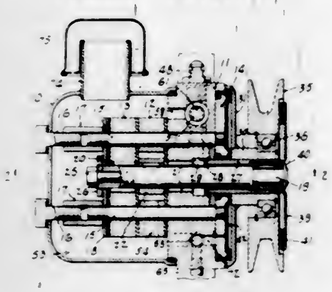
1. In a pump having a rotor provided with a plurality of pistons and cylinders and a cylinder port leading from each cylinder, means for rotating said rotor, and piston reciprocating means for causing the pistons on one side of a central longitudinal plane of said pump to move progressively inward and the pistons on the other side of said plane to move progressively outward during rotation of said rotor, the combination of a main valve cooperating with said cylinder ports to control the flow of liquid to and from said cylinders and having formed therein upon opposite sides of said plane an arcuate inlet port and an arcuate discharge port with which each cylinder port communicates alternately during rotation of said rotor, the leading end of said discharge port in respect to the direction of rotation of said rotor being spaced from said central plane a distance greater than one half the angular length of a cylinder port so that the port of a cylinder after it passes beyond said central plane toward the discharge port will not open to the discharge port until after the piston in that cylinder has moved inward far enough to eject a limited volume of liquid from that cylinder, and a plurality of limited capacity check valves arranged in said rotor, each of said check valves having an inlet connected to one cylinder and an outlet connected to the cylinder next preceding said one cylinder in the direction of rotation of said rotor and a plunger having one end thereof normally closing said inlet and the other end thereof adapted to close said outlet only after said plunger has been moved a substantial distance from its normal position so that as said one cylinder passes beyond said central plane toward the discharge port the limited volume of liquid ejected from said one cylinder by the inward moving piston therein will move said plunger far enough from its normal position to permit said limited volume of liquid to flow through said check valve into said preceding cylinder and when said preceding cylinder opens to the inlet port the resultant sudden rush of liquid into said inlet will cause said plunger to move far enough to close said outlet and prevent flow of liquid through the check valve from the discharge port into the inlet port.

2,661,696

HYDRAULIC POWER UNIT AND INTERNAL-COMBUSTION ENGINE WITH CLUTCH DRIVE THEREBETWEEN OPERATED FROM THE OIL CIRCUIT OF SUCH ENGINES

Elmer O. Dale, Waukesha, Wis., assignor, by mesne assignments, to Gar Wood Industries, Incorporated, a corporation of Michigan

Application July 22, 1948, Serial No. 40,030
7 Claims. (Cl. 103—23)



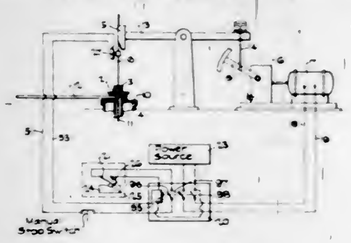
1. In combination with a hydraulic power unit adapted to intermittently actuate a device, and an internal combustion engine having a normally unobstructed oil circuit operated from a source of pressure independently of said hydraulic power unit, a hydraulically actuated clutch between said unit and engine to transmit power from said engine to said unit, a servomotor for operating said clutch, valve means movable to a position blocking fluid flow through a portion of said oil circuit, and an open fluid conduit between said circuit and said servomotor, said conduit being connected to said circuit between said source of pressure and said valve means, whereby movement of said valve means to its blocking position increases the fluid pressure in said conduit to actuate said clutch.

2,661,697

CONTROL SYSTEM FOR OIL WELL PUMPS

Marion V. Long and Frederick Carl Schneider, Berkeley, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application December 26, 1951, Serial No. 266,366
10 Claims. (Cl. 103—25)



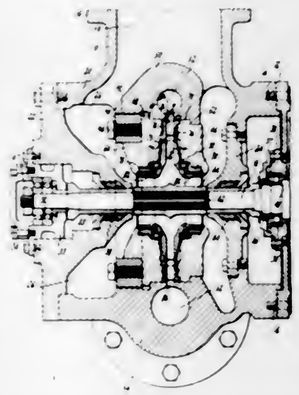
1. A well pumping installation comprising a reciprocating well pump, a prime mover, transmission means connected between said prime mover and said pump for actuating said pump, an electric circuit energizing said prime mover, a controller for said circuit, said controller comprising a housing fixedly attached to said pumping installation, said housing having a cylindrical bore adapted to be filled with a fluid, switch means having at least one axially immovable contact element disposed in said bore, said switch means being connected to said circuit to close and open said circuit, a massive member slidably mounted in said bore for axial motion therein, spring means urging said massive member into abutment with said axially immovable contact element, thereby maintaining said switch means normally closed during the operation of said prime mover, said massive member being impelled by the momentum imparted thereto by abnormal vibrations generated by the pump to move away from said stationary contact member, thereby opening said switch means and deenergizing the prime mover, passage means in said massive member permitting the transfer of the fluid in said bore from one side to the other of said member and check valve means in said passage means disposed to restrict said passage means to fluid flow during the spring responsive motion of the massive member.

2,661,698

CENTRIFUGAL PUMP

Christopher A. Schellens, St. George, Maine

Application March 21, 1951, Serial No. 216,738
12 Claims. (Cl. 103—104)



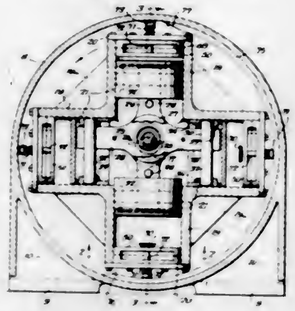
6. A centrifugal pump comprising a casing consisting of an outer shell enclosing a suction chamber, a shaft projecting through and journalled in said outer shell and an inner shell within the outer shell enclosing a volute discharge duct and encircling said shaft, said outer shell including a member with a circular opening concentric with said shaft and large enough to admit all removable parts within the outer shell and a circular head secured to said member to close said opening, said head carrying a bearing for said shaft, an impeller keyed to said shaft within said inner shell, two spaced diaphragms fitted within said inner shell and enclosing a chamber within which said impeller is rotatable, said inner shell having a stepped bore within which said diaphragms are mounted and annular shoulders within the bore against which the diaphragms are pressed, a diffuser gripped between the peripheral portions of the diaphragms, and means holding the diffuser and diaphragms in assembled relation, said means consisting of a ring threaded into a portion of said bore to abut one of said diaphragms and a plurality of bolts threaded through said ring and parallel to the shaft axis to press the adjacent diaphragm against one of said shoulders and against said diffuser.

2,661,699

ENGINE

William W. Smith, Buffalo, N. Y.

Application June 10, 1949, Serial No. 98,323
4 Claims. (Cl. 103—161)



1. An engine including a stationary shaft having a crank, a plurality of cylinders arranged symmetrically about the axis of said shaft, said cylinders being rigidly connected with each other, flange members secured to the opposite sides of said cylinders and rotatable about said shaft to enable said cylinders to rotate about said shaft, pistons in said cylinders, cross bars mounted on the portions of said pistons adjacent to said shaft, a yoke member journalled on said crank and having outwardly extending portions through which said cross bars extend and which are slidable lengthwise of said cross bars during the rotation of said cylinders about said shaft, said flange members having integral sleeve portions extending about said shaft, a housing within which said engine is arranged and including side members, bearings cooperating with said side members and said sleeves for mounting said cylinders for rotation about said shaft, passages in said flanges and said sleeves, cooperating passages in said shaft through which fluid may pass to and from said cylinders, inlet and discharge manifolds arranged in fixed relation to said cylinders, a check valve controlling the flow of incoming fluid from said inlet manifold to said cylinder, a discharge valve controlling the discharge of fluid to said discharge manifold, and a stationary part on said housing cooperating with said discharge valve to actuate the same.

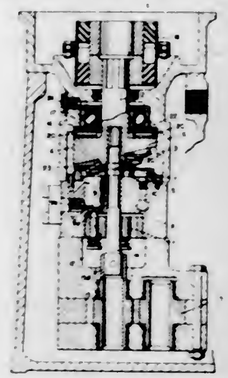
2,661,700

AXIAL TYPE RECIPROCATING PUMP, COMPRESSOR, MOTOR, AND ENGINE

John Maurice Towler, Cumberland, and Frank Hathorn Towler, Otley, Yorks, England, assignors to Electraulic Presses Limited, Rodley, England, a corporation of the Kingdom of England

Application April 8, 1947, Serial No. 740,064
Claims priority, application Great Britain May 3, 1946
19 Claims. (Cl. 103—162)

1. A hydraulic multi-ram pump comprising, in combination, a cylinder block which is formed with a plurality of cylinder bores arranged annularly around a central axis, a plurality of rams respectively reciprocable and freely rotatable in said bores, a ram actuating device having a face relatively inclined to a plane normal to said axis and located in opposed operative contact with the outer ends of said rams, means for maintaining said rams against said face, power means for effecting a relative wobbling movement between said block and device about said axis whereby to effect reciprocation of said rams in progressive timed sequence, means for admitting and discharging liquid to and from said bores as said rams are reciprocated, and toothed gearing operatively connecting said actuating device to said



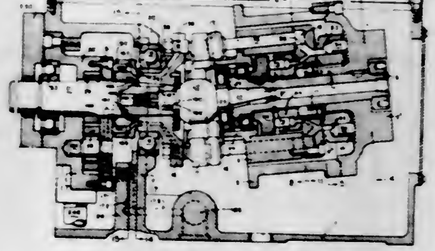
block, the tooth ratio of said gearing being such as to effect rotational displacement of said device in relation to said block to produce substantially a rolling contact between said face and the contacting ends of said rams.

2,661,701

AXIAL TYPE HYDRODYNAMIC MACHINE

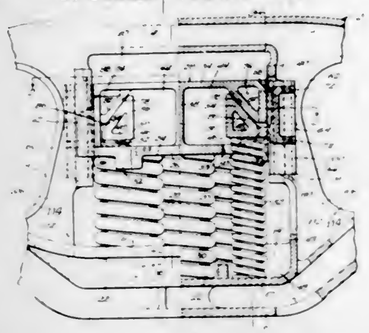
Walter Ferris, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin

Application October 3, 1947, Serial No. 777,794
26 Claims. (Cl. 103—162)



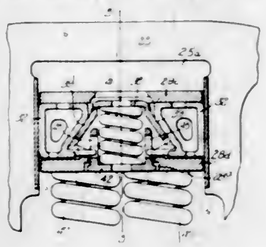
1. In a hydrodynamic machine, the combination of a rotatable cylinder barrel having pistons and cylinders arranged therein, means for rotating said cylinder barrel, means for reciprocating said pistons in response to rotation of said cylinder barrel to thereby cause liquid to flow into and out of said cylinders, a flat valve engaging the end of said cylinder barrel to control the flow of liquid to and from said cylinders, the liquid between said cylinder barrel and said valve tending to move said cylinder barrel away from said valve, a hold-up element arranged between the ends of said cylinder barrel and engaging said cylinder barrel in opposition to said valve, hold-up motors arranged upon opposite sides of the centerline of said cylinder barrel for urging said element against said cylinder barrel, and means for supplying liquid from the cylinders on either side of said centerline to the hold-up motors on the same side of said centerline to energize the same.

2,661,702
SNUBBED TRUCK
John J. Kowalik, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application October 8, 1948, Serial No. 53,530
16 Claims. (Cl. 105—197)



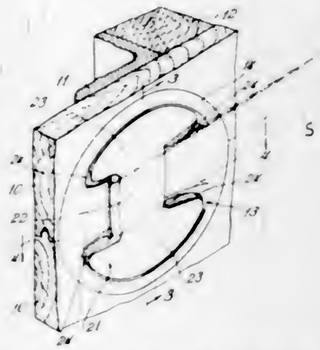
1. A side frame having a bolster opening, a column at each side of said opening, each column comprising spaced inboard and outboard portions defining a substantially vertical slot therebetween open to said bolster opening, and a friction surface on each portion facing toward the adjacent end of the frame, each slot having a section at one of its extremities widened transversely of the frame and spaced vertically from the related surfaces and open thereto and to said bolster opening for accommodating assembly and disassembly of associated friction means with respect to the related column between the surfaces thereof through said opening.

2,661,703
RAILWAY CAR TRUCK BOLSTER STABILIZER
Karl M. Hamilton, Chicago, Ill.
Application June 26, 1946, Serial No. 679,327
13 Claims. (Cl. 105—197)



1. In a railway car truck bolster stabilizer, the combination of a truck side frame with a bolster receiving opening having side columns, bolster supporting springs arranged in the bottom of said opening, a bolster resting on said supporting springs provided with transversely disposed four plane walled pockets at the ends and open at the sides of the bolster with a central opening in each pocket through the bottom of the bolster; a pair of friction blocks having upwardly sloping inner ends, slidable in the ends of each pocket and adapted to frictionally engage the truck frame columns; a hollow wedge block arranged in each pocket between the inner ends of the friction blocks, the adjacent portions of the friction blocks and said wedge block having matching sloping surfaces in contact with each other whereby the friction blocks are forced through the open ends of the pocket when the wedge block moves upwardly in the pocket; a vertically extending coil spring and a spring holding cup insertible through said bolster-bottom opening with the upper end of the spring bearing against the inner surface of the top of the wedge block and exerting constant upward pressure on the wedge block, the bottom of said cup being adapted to extend flush with the bolster-bottom and to be so maintained by the bolster supporting springs without affecting the pressure of said cup spring.

2,661,704
LADING TIE ANCHOR
Malcolm S. Johnson, Chicago, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application July 16, 1951, Serial No. 236,899
7 Claims. (Cl. 105—369)



1. A lading tie anchor for railroad house cars adapted to be recessed in the car lining and comprising a single piece circular member whose outer face at a uniform distance removed from the perimeter is recessed and provided with a transversely disposed concave channel having upwardly sloping ends terminating adjacent the perimetrical portion of the member, the member at opposite sides of the channel having openings with rearwardly extending side walls adapted to be secured to a metallic structural member of the car wall; and a tie strap attaching member secured to the face of the circular member and extending transversely of said channel.

2,661,705
RACK FOR REFRIGERATOR CAR FLOORS AND SIMILAR PURPOSES
Albert G. Dean, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 25, 1947, Serial No. 788,055
8 Claims. (Cl. 105—375)



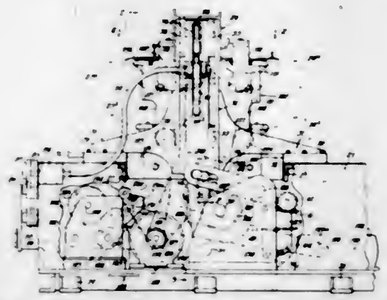
1. Floor rack for refrigerator cars and similar purposes comprising: a plurality of supporting stringers extending parallel to and being widely spaced from each other, and a plurality of floor slats closely spaced from each other in parallel relation and intersecting said stringers; said slats being in the form of inverted U-sections; said supporting stringers having upright webs with raised portions which are spaced from each other to fit into and supportingly engage the inside of said U-section slats, and arms bent off from the ends of said webs and overlappingly secured to the side walls of the slats along the margins of the rack.

2,661,706
MEANS FOR HANDLING CANDIES
James R. Flanagan, Westville Grove, N. J., assignor to Stephen F. Whitman & Son, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application May 1, 1951, Serial No. 223,935
3 Claims. (Cl. 107—7)



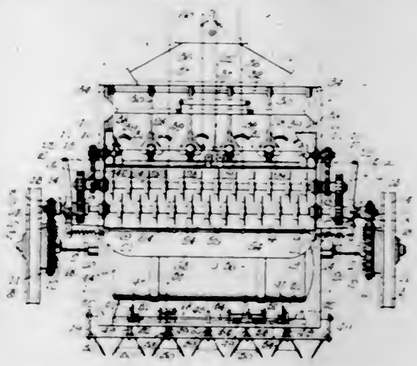
1. In a candy handling machine, a frame, an endless belt supported by the frame and having a horizontal top flight extending the length of the frame, horizontal tracks extending the length of said frame positioned above the top flight of said belt, a candy receiving hopper mounted upon and movable along said tracks, means to move said hopper to traverse said tracks, a controlled discharge for said hopper for dropping candies on the underlying belt, means carried by said hopper to level the candies dropped on said belt into uniform layers, a plurality of feeder means sequentially operable to supply separate batches of candies to said hopper intermediate the traversing movements of said hopper when said hopper is in a loading position at one end of said frame and means to cause said endless belt to move to dump candies deposited thereon by said hopper during traversing movement after the desired number of layers of candies are upon the top flight of the belt.

2,661,707
CANDY SLICING MACHINE
Ernest C. Clement, Chicago, Ill., assignor to Mars, Incorporated, Chicago, Ill., a corporation of Delaware
Application February 17, 1949, Serial No. 76,877
4 Claims. (Cl. 107—21)



1. The combination of a slicing platform, a knife disposed over the platform, means mounting the knife for movement of the knife through a substantially vertical triangular path over the platform including a horizontally slidable frame, and means mounting the knife for substantially vertical movement on the frame, a conveyor on one side of the knife mounted to move toward the knife, a second conveyor on the other side of the knife disposed closely adjacent to the end of the first conveyor and mounted to move away from the knife, the triangular path for the knife having an upwardly extending side substantially over the position where the two conveyors adjoin, a substantially horizontal side extending from the upper end of the first side in a direction opposite to the movement of the first conveyor, and a third side extending diagonally downwardly to connect the free ends of the first two sides, drive means connected to the first conveyor adapted to drive said conveyor at a uniform velocity, and drive means connected to the second conveyor adapted to drive the second conveyor at the speed of the first conveyor while the knife is traveling down the inclined side of its path and at a greater velocity when the knife is traveling through the other two sides of the triangular path, said second drive means including a transmission unit comprising a spur gear, a ring gear mounted concentrically about the spur gear, and a planetary gear system including a planetary gear between and meshed with the spur gear and the ring gear, means driving the spur gear, means connecting the ring gear in driving relationship with the second conveyor, and means synchronized with the position of the knife in its path of travel for rocking said planetary gear in an arcuate path concentric with said spur gear.

2,661,708
SOD PLANTING MACHINE
Harrison V. Pittman, Little Rock, Ark.
Application June 12, 1946, Serial No. 676,130
2 Claims. (Cl. 111—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A sod-planting machine comprising, in combination, a portable frame, traction wheels supporting the frame, transversely-aligned equally-spaced double mold board plowing means mounted on the frame for plowing parallel furrows in terrain over which the machine is being moved and forming ridges of earth between the furrows, a hopper mounted on the frame rearwardly of the plowing means for receiving massive units of sod, equally spaced sod-comminuting cutting means mounted in the hopper for comminuting the massive units of sod into small pieces, said cutting means being mounted on oppositely rotatable parallel shafts and in staggered relation,

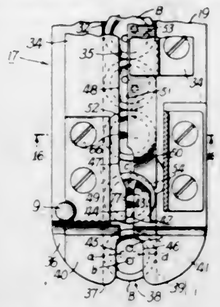
said shafts being in a substantially horizontal plane, mechanism operable responsively to rotation of the traction wheels for rotating said shafts as the machine is moved along the terrain being planted, sod-distributing members secured to said hopper in alignment with the plowing means and receiving from the sod-cutting means small pieces of sod and distributing said small pieces into the furrows, the distributing members having discharge openings larger in area than the spacing between adjacent staggered cutting means, watering means mounted on and disposed rearwardly of the hopper and directly above the furrows for applying water to the pieces of distributed sod, covering means disposed rearwardly of the watering means for entering said ridges of earth, said covering means including laterally acting spreading plates entering said ridges of earth and laterally spreading the earth therefrom around the comminuted pieces of sod in the furrows for enclosing said pieces and filling interstitial portions of the furrows between the pieces with earth, means for vertically adjusting the plowing means for plowing furrows in accordance with size of the comminuted pieces of sod commensurate in depth and width to the size of the pieces of sod being deposited in the furrows, and mechanism for selectively controlling the aforementioned means from a single operating station.

2,661,709

ART OF FEEDING AND ORIENTING SEWING HOLE BUTTONS AND MACHINE THEREFOR

William A. Troll, Brooklyn, N. Y., assignor to Emsig Manufacturing Company, New York, N. Y., a partnership

Application June 7, 1950, Serial No. 166,754
30 Claims. (Cl. 112—113)



1. In a button sewing machine, a button feeder comprising a chute for feeding buttons from a bulk supply and including a throat portion in the chute to feed the button in an oriented position, the combination comprising a button feeler and feeder for moving the button along the chute by engagement of a face of the button eccentrically to drag the button to an axial position leaving the button free to rotate relative to the dragging means.

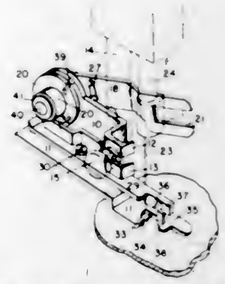
2,661,710

HEM SEWING ATTACHMENT FOR SEWING MACHINES

James Hickey, Portland, Oreg.

Application March 27, 1951, Serial No. 217,756
4 Claims. (Cl. 112—176)

1. In a sewing machine hem sewing attachment of the character described, a main frame adapted to be removably secured on the sewing machine presser foot supporting shaft in place of the ordinary presser foot, a rotating element mounted in said main frame for rotation on a horizontal axis, means adapted to be connected to and to be operated by the sewing machine needle shaft so as to produce rotation of said rotating element with the reciprocation of said needle shaft, a positioning lever arm pivotally supported on said main frame for limited swinging movement in a substantially horizontal plane, the forward end of said arm adapted to extend along one side of the vertical path of the sewing machine needle, an element on said forward end of said arm adapted to engage said



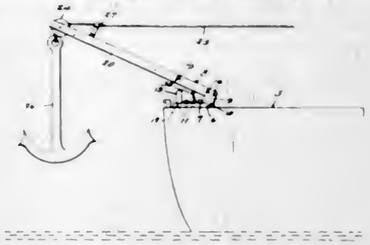
needle when said arm is swung from its normal position whereby to bend said needle slightly from its normal path, a cam wheel secured on said rotating element, a cam follower element on said arm in contact with said cam wheel, and a spring holding said cam follower element of said positioning lever arm and therewith said positioning lever arm constantly in contact with said cam wheel so as to cause said arm to be given a lateral swinging movement by the rotation of said cam wheel, whereupon with the operation of the sewing machine, the needle will be intermittently thrust slightly laterally for the purpose described.

2,661,711

ANCHOR DAVIT

George P. Evans, Hellam, Pa.

Application October 26, 1951, Serial No. 253,347
5 Claims. (Cl. 114—210)



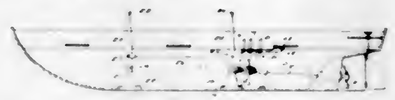
1. In an anchor davit, a base swivelled to the deck of a vessel, a davit arm pivotally connected to said base, said arm embodying an outer and inner section adjustable longitudinally with respect to each other, a pulley mounted at the outer end of the outer section, an anchor rope to which an anchor is secured, operating over the pulley, and a rope jamb mounted on the arm into which said rope is wedged connecting the rope directly to said arm for effecting vertical swinging movement of the arm as said rope is pulled, and a chain secured between the base and arm limiting vertical swinging movement of said arm.

2,661,712

MANUAL POWER SCREW PROPELLED LIFEBOAT

Arthur P. Horn, Tampa, Fla.

Application December 5, 1950, Serial No. 199,174
2 Claims. (Cl. 115—24)



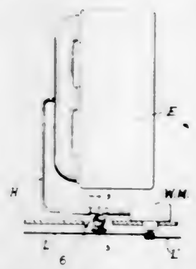
1. A lifeboat comprising a propeller shaft, a propeller mounted on the rear end of said shaft, a drive shaft arranged transversely on said propeller shaft, a pair of brackets secured to the bottom of the boat for supporting said drive shaft, the front end of said propeller shaft being of square cross section, a plurality of bevel gears slidably arranged on the square end of said propeller shaft, a pair of spaced parallel vertically disposed flywheels rotatably mounted on said drive shaft, annular rows of gear teeth arranged on said flywheels to be engaged by said bevel gears, a support member secured within said boat, a plurality of levers pivotally connected to said support member and having their lower ends positioned contiguous to said bevel gears, a sleeve secured to each of said flywheels and provided with a plurality of teeth, said drive shaft extending through said sleeves, a first handle movably positioned between said flywheels, a casing secured to the lower end of said handle, and spring pressed body members having inclined teeth slidably mounted in said casing and engaging said sleeves.

2,661,713

SIGNALING SYSTEM FOR INDICATING INEFFICIENT VACUUM CONDITIONS IN AUTOMOTIVE ENGINES

Glen J. Worel, Robbinsdale, Minn., assignor to Thexton Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota

Application October 19, 1951, Serial No. 252,134
2 Claims. (Cl. 116—138)



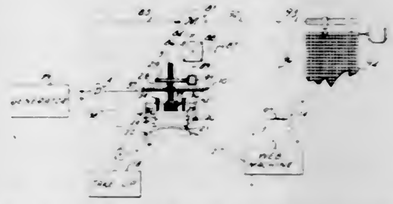
1. A signal device for indicating when the partial vacuum within a device such as the intake manifold of an automobile engine, is below a predetermined value, comprising a body forming an internal cylinder and having a passage communicating with the inner end of said cylinder and adapted to be connected with the interior of said device, a piston mounted in said cylinder with its inner end subjected to the partial vacuum created therein, a spring for urging said piston outwardly in opposition to the effect of partial vacuum thereon, said piston having a circumferential recess in the periphery thereof, said recess communicating with a passage which is in communication with the inner end of said cylinder and a whistle device connected with the outer portion of said body and having a whistle port extending radially into said cylinder and normally closed by the unrecessed periphery of said piston, but being adapted to communicate with said recess when said piston through dropping of the partial vacuum to which its inner end is subjected, is projected by said spring to a predetermined range of its movement.

2,661,714

ULTRASONIC GAUGE

Ivan A. Greenwood, Jr., Pleasantville, and Alexander Gordon, Jr., Astoria, N. Y., assignors to General Precision Laboratory Incorporated, a corporation of New York

Application October 18, 1951, Serial No. 251,956
7 Claims. (Cl. 118—8)



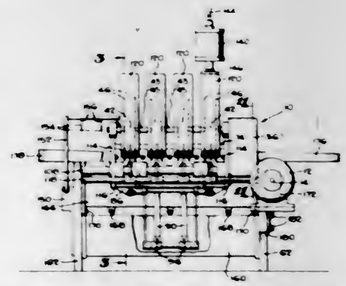
1. An acoustic thickness gauge for measuring the thickness of a web of material comprising, an electro-acoustic transducer for producing acoustic energy, an alternating current generator connected to and energizing said transducer, said transducer directing said acoustic energy towards the surface of said web and being positioned at a selected distance therefrom, the value of the impedance of said transducer being affected by the distance between said transducer and the surface of said web, a detector-amplifier connected to said transducer whose output varies in accordance with changes in the impedance of said transducer, a motor controlled by said detector-amplifier output for moving said transducer relative to said web whereby changes are caused in the transducer impedance, the motor movement being in such sense as to maintain said selected distance and means for indicating the degree of motor movement.

2,661,715

EGG CLEANING AND SEALING MACHINE

Harry C. McLean, Los Angeles, Calif.; Nellie Troxel, administratrix of said Harry C. McLean, deceased, assignor to Nellie I. Troxel, Los Angeles, Calif.

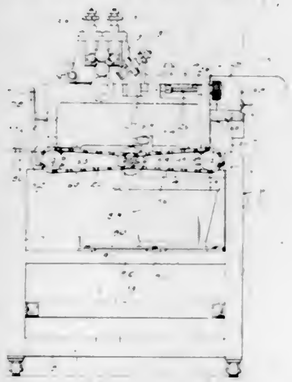
Application February 3, 1949, Serial No. 74,452
13 Claims. (Cl. 118—23)



1. In an egg cleaning machine, an egg wiping mechanism including a plurality of wiper pads

mounted on a plurality of opposed discs driven in opposite directions of rotation by synchronized drive mechanism, an egg rotating mechanism adapted to rotate an egg in its egg wiping position between said opposed discs, egg transfer means operatively engageable with the egg to remove the egg from its egg wiping position, and egg wiping mechanism retracting means operatively connected to said egg wiping mechanism for moving said egg wiping mechanism out of the way of the egg during operation of said egg transfer means.

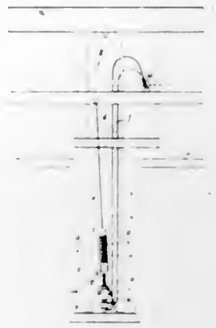
2,661,716
MACHINE FOR APPLYING GLUE TO SHEET MATERIAL
Robert Minkow, New York, N. Y.
Application January 2, 1951, Serial No. 203,926
1 Claim. (Cl. 118—262)



A gluing machine comprising a base frame, a pair of upright side members carried by said frame, a gluing roller, a shaft carrying said roller rotatably journalled between said side members, a doctor roller, a shaft carrying said doctor roller rotatably journalled between said side members, spring means biasing said doctor roller toward said gluing roller, a reservoir carriage beneath said gluing roller, a pair of shafts journalled for rotation in said frame beneath said reservoir carriage, a pair of spaced cams carried by each shaft abutting the bottom of said reservoir carriage, for supporting the reservoir carriage for vertical adjustment, a common operator for rotating the shafts carrying the cams, a removable reservoir on said carriage, and means carried by said frame for locating the reservoir on the carriage, said reservoir including upright sides having cutout portions therein, said cutout portions receiving the journals of the roller shafts when the reservoir is raised to preclude contact of the journals with the glue in the reservoir.

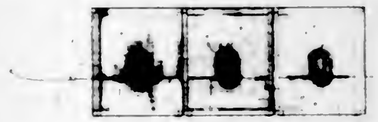
2,661,717
CONVEYING MEANS FOR ARTICLES TO BE TREATED IN A GALVANIZING BATH
Edward McIvor Wilson, Birmingham, England, assignor to Henry Hope & Sons Limited, Birmingham, England
Application March 30, 1951, Serial No. 218,504
Claims priority, application Great Britain July 14, 1950
3 Claims. (Cl. 118—500)

1. Conveying means for articles to be treated in a galvanising bath, comprising in combination a mechanism for lowering and raising the articles into and from the bath, carrying means for the articles, said carrying means being movably attached to said mechanism for reciprocatory motion relatively thereto, a pair of spring-supporting abutments provided on said mechanism and carrying means respectively, a spring arranged between and supported at its ends by said abutments so that said spring is energisable



by vertical movements of said carrying means in one direction relatively to said mechanism, and power-operated means connected to said mechanism and arranged to act on said carrying means for co-operating with said spring to effect intermittent vertical reciprocatory motion of said carrying means relatively to said mechanism, and thereby impart a jogging motion to articles on said carrying means.

2,661,718
COOLING UNIT FOR RABBIT HUTCHES
Alvin A. Ruport, Citrus Heights, Calif., assignor of one-half to Earl W. Kreisel, Citrus Heights, Calif.
Application August 15, 1951, Serial No. 241,951
1 Claim. (Cl. 119—15)



A rabbit cooling device for the floor of a rabbit hutch comprising an exposed horizontal rigid tubular coil formed with a plurality of turns, the coil being supported directly on the floor and of sufficient overall area to support a seated rabbit, and means to flow a cooling medium through the coil from below the floor; the turns of the coil being on substantially a common level so as to flatly rest on the floor and to form a flat seat for the rabbit and said turns being relatively close together.

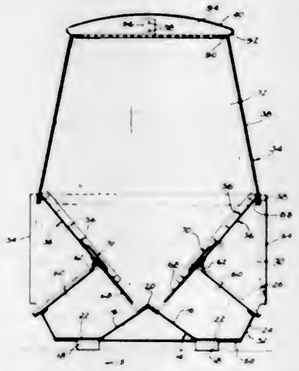
2,661,719
SALT BLOCK HOLDER
Joseph Scheidt and Lester A. Teegardin, Streator, Ill.
Application March 10, 1952, Serial No. 275,801
2 Claims. (Cl. 119—51)

1. In combination, a relatively stationary vertical support post, a holding tray having a horizontal bottom and upstanding marginal retaining flanges, the respective ends of the respective flanges being spaced apart to provide constantly open drainage openings, the upper portion of said post being fixedly secured to said bottom and the upper end of said post extending above the plane of said bottom and providing a salt block retainer, and a complemental salt block having a vertical socket extending upwardly from the bot-



tom of the block, the lower marginal portion of said block being confined within the limits of said tray by way of said flanges, the extending upper end of said post projecting telescopically into said socket with its extremity abutting the bottom of said socket, the latter being of a length less than the length of said upper end, whereby the entire bottom of said block is constantly spaced above the bottom of said tray for drainage of liquids from said tray.

2,661,720
HOG FEEDER
Max L. Rysdon and Richard C. Moyer, Sioux Falls, S. Dak.; said Moyer assignor to said Rysdon
Application April 29, 1950, Serial No. 159,068
3 Claims. (Cl. 119—53)



1. In a feeder of the character disclosed, a container having end walls and opposed upper side walls each inclined outwardly and downwardly at an angle of between 75° and 80° with the horizontal, opposed lower side walls inclined downwardly and inwardly, said upper side walls extending over the major portion of the height of said container and adapted to have feed stored in the space therebetween, the lower edges of said lower side walls being spaced apart to form a feed aperture extending along the length of said lower walls, a feeding trough extending along the length of each lower side wall and adapted to receive feed from said container, each feeding trough having a longitudinal wall inclined upwardly forming the back wall of said trough and cooperating with the back wall of the other trough to form a divider ridge extending the length of said feed aperture, and said back wall of each trough being spaced from the lower edge of the associate lower side wall to form a trough feed aperture through which feed is adapted to pass from the container into the troughs.

2,661,721
HYDRAULIC POWER ACTUATOR
Theo Sherwen, Norton Lindsey, England, assignor to Harry Ferguson, Limited, Coventry, England, a British company
Application November 8, 1951, Serial No. 255,512
1 Claim. (Cl. 121—38)

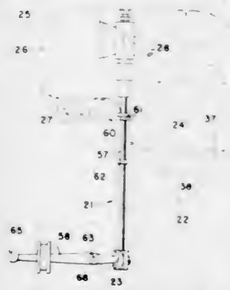


In a hydraulic actuator, the combination comprising a tubular cylinder having a counterbore adjacent one end thereof, a flanged plug closure member rigidly fixed to the opposite end of said cylinder, said plug having an anchoring connection thereon, means for admitting pressure fluid into said cylinder or exhausting it from the same, a plunger slidably housed within said cylinder and terminating at its inner end in a spool shaped member, the opposite end of said plunger terminating in a fixed plug having connecting means thereon, a pair of arcuate guide shoes mounted on the medial portion of said spool shaped member with their adjacent ends in spaced apart relation, said arcuate shoes being susceptible of limited floating movement in a direction transverse to the plunger stroke, a pair of cup-shaped ring members mounted within said counterbore in straddling relation with a resilient sealing ring, means adjacent the outer end of said counterbore for retaining said cup-shaped members and sealing ring in place, and a stop sleeve disposed in surrounding relation with the body of said plunger, said stop sleeve being constructed and arranged to accost said arcuate shoes on said plunger to define the outer extremity of plunger stroke and to permit the application to said sealing ring of a total compression thrust equal to that produced over an area equivalent to the total cross-sectional area of the bore in said cylinder.

2,661,722
SAFETY CONTROL MECHANISM FOR HYDRAULIC APPARATUS
Howard V. Mills, Columbus, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio
Application July 18, 1947, Serial No. 761,786
1 Claim. (Cl. 121—38)

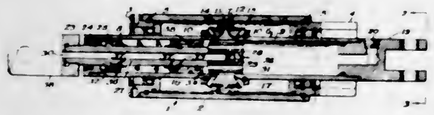
In a hydraulic press of the type having a source of fluid pressure and a power cylinder with a ram; mechanism for controlling the operation of said ram comprising a valve casing having an inlet port communicating with said pressure source, cylinder ports communicating with the

ends of said power cylinder, and exhaust ports; a valve spool disposed for movement in said casing between two extreme positions, said spool in one of said positions establishing substantially unrestricted communication between said pressure source and the first end of said cylinder and between the second end of said cylinder and exhaust to cause rapid movement of said ram in one direction, the other extreme position of said spool establishing communication between the second end of said cylinder and said pressure source and between the first end and exhaust; an intermediate position of said spool establishing communication between said first end of said cylinder and said inlet and restricted communication between said second cylinder port and said exhaust to cause a back pressure; a second spool in said first-mentioned valve spool responsive to such back pressure to establish restricted communication between said inlet port and an exhaust port to reduce the rate of movement of said



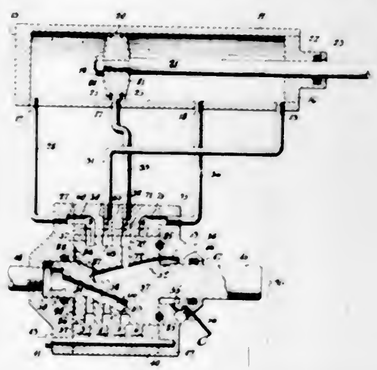
ram; actuating means for said first mentioned valve spool having a pair of levers pivoted intermediate their ends for movement in planes parallel to the direction of movement of said ram; a crossbar extending between and universally connected with corresponding ends of said levers; resilient means tending to simultaneously move said levers toward one end of their travel and said valve spool to a position to connect a predetermined cylinder port with said pressure source and the other cylinder port with exhaust; and a push rod pivotally connected at one end to the intermediate portion of said crossbar and at the opposite end to said first mentioned valve spool, simultaneous movement of said levers to a predetermined end of their travel serving to position said first valve spool in the first mentioned extreme position, movement of either lever away from such predetermined end while the position of the first is maintained serving to dispose said first-mentioned spool in said intermediate position.

2,661,723
PRESSURE FLUID, FOLLOW-UP TYPE SERVOMOTOR
Paul Johnson, Elyria, Ohio, assignor to The Thew Shovel Company, Lorain, Ohio, a corporation of Ohio
Application January 27, 1951, Serial No. 208,120
7 Claims. (Cl. 121—41)



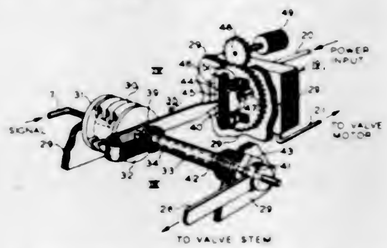
1. A control device comprising a cylinder, a piston reciprocable in said cylinder, means forming two passageways for fluid under pressure respectively leading into said cylinder on opposite sides of said piston and inlet and outlet ports for fluid communicating with such passageways whereby said piston may be actuated in opposite directions in accordance with which one of such passageways is open to such inlet port while the other passageway is open to such outlet port, a valve member in said device movable in opposite directions from a neutral position communicating both of such passageways with such outlet port to positions selectively communicating such passageways one with such inlet port and the other with such outlet port whereby said piston is actuated by fluid under pressure in a desired direction, and yieldable means between said valve member and said piston holding said valve member in such neutral position with predetermined force whereby said piston may be actuated in a desired direction through said valve member and said means, said means, upon application of force on said valve member in excess of such predetermined force, yielding to permit relative movement of said valve member to the selected position whereby actuation of said piston in a desired direction is augmented by fluid under pressure acting thereon, said valve member and a member reciprocable relative thereto both being exposed to fluid under pressure and bearing on said yieldable means whereby, in the event of the yielding of said means under the influence of said last-named member and upon release of force on said valve member, said valve member will be actuated by fluid under pressure to communicate the fluid under pressure to the opposite side of said piston.

2,661,724
MULTIPLE POSITION FLUID PRESSURE ACTUATED APPARATUS
Herbert A. Blenkle, Leonia, N. J., assignor to James P. Guarnieri, Inc., New York, N. Y., a corporation of New York
Application July 17, 1951, Serial No. 237,169
5 Claims. (Cl. 121—41)



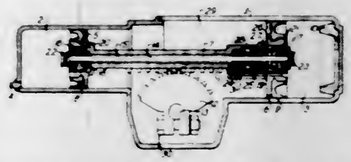
1. Fluid pressure actuated apparatus, comprising a cylinder having a port thereinto adjacent to each end thereof, and at least one port to said cylinder intermediate its ends, a piston movable in said cylinder and having a sufficient axial extent to seal off one only of such intermediate ports when said piston is at a single predetermined position opposite each such intermediate port respectively, a valve having a housing member and a member within said housing, said members of said valve being relatively movable, fluid pressure connections from ports in one member of said valve to each of the ports of said cylinder respectively, means to supply fluid pressure from a source thereof to the other member of said valve, means for the exhaust of fluid pressure from said other member of said valve, the members of said valve having a predetermined different relative position for each desired position of said piston in said cylinder respectively, which positions of said piston are respectively substantially at each of said ports to said cylinder, a passage in said other member of said valve from said fluid pressure supply means to the valve port communicating with one end port of said cylinder at a first and at all the intermediate of said positions of said piston and of the members of said valve, a passage in said other member of said valve from the fluid pressure exhaust means to the valve port communicating with the other end of said cylinder at said first position of the members of said valve, a passage in said other member of said valve from the fluid pressure exhaust means to the valve port communicating with said one end port of said cylinder at a last position of the members of said valve, a passage in said other member of said valve from said fluid pressure supply means to the valve ports communicating with said other end port of said cylinder at said last and all intermediate of said positions of said members of said valve, a passage in said other member of said valve from said fluid pressure exhaust means to the respective intermediate valve ports of said cylinder for each of the intermediate positions of said piston and the valve members respectively, and means forming a part of said other member of said valve for blocking communication between all intermediate ports of said cylinder to both said fluid pressure supply means and said fluid pressure exhaust means except as aforesaid.

2,661,725
PNEUMATIC VALVE PRECISE POSITIONING DEVICE
Hoel L. Bowditch, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass.
Application May 29, 1952, Serial No. 290,794
1 Claim. (Cl. 121—41)



In a pneumatic control system for precisely positioning a valve stem in accordance with a command signal in a predetermined proportional relation which is variable by adjustment, with said adjustment covering a full range of proportion variation including infinite proportion, and providing positions of reverse action whereby said system may be adapted to operate with a reversal of stem movement direction with respect to a positive command signal, in combination, a pneumatic motor for actuating said stem, a pneumatic pilot valve unit for operating said motor, and means for controlling said pilot valve unit jointly by said command signal and said stem whereby the actual position of said stem is utilized as a factor in the actuation of said stem, said pilot valve unit comprising a pneumatic relay having a pneumatic pipe connection with said motor, a support rotatably mounted with respect to said relay and having an axially extending opening therein as a pneumatic connection with said relay, and a nozzle and a baffle mounted on said support with said baffle movable with respect to said nozzle to vary pneumatic flow therefrom, with said baffle movement in a plane parallel to the plane of rotation of said support, and a pneumatic pipe connecting said nozzle and said axial opening of said support, and said controlling means comprising a bellows for responding to said command signal with an essentially straight line movement, a lever movable with said stem, a shaft rotatable by said lever, and a flexible U member secured to said shaft and pivoted on said bellows so as to be responsive to the movements of both said bellows and said shaft, with said U member having an arm in operative engagement with said baffle to produce said baffle movement and with said engagement being the only operative connection between said arm and said pilot valve unit, said U member arm being disposed in a plane essentially perpendicular to the plane of movement of said baffle, with the movements of said arm in response to said bellows and shaft movements being, at least while said arm is in said engagement with said baffle, in planes essentially perpendicular to each other and to the plane of movement of said baffle, and with the position of rotation adjustment of said nozzle-baffle support being a variable factor in said adjustment of the proportional relation between said command signal and said valve stem position.

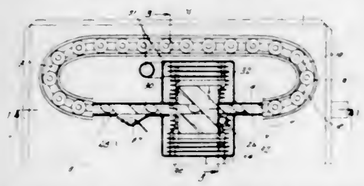
2,661,726
FLUID PRESSURE MOTOR
Giuseppe Alfieri, Milan, Italy
Application February 28, 1948, Serial No. 12,125
In Italy March 18, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires March 18, 1961
6 Claims. (Cl. 121—123)



1. A reciprocating pressure fluid operated motor comprising a casing defining a pair of opposed cylinders of different diameters: a piston unit reciprocatable in said casing including a piston working in each of said cylinders and a connecting rod extending between said pistons; pressure fluid inlet means opening into the smaller of said cylinders so that the pressure fluid continuously acts against the piston in said smaller cylinder; a pressure fluid passageway for communicating said smaller cylinder with the larger of said cylinders and extending through said connecting rod and opening at one end through the piston in said smaller cylinder; a pressure fluid exhaust passageway for communicating said larger cylinder with the atmosphere and opening at one end into said larger cylinder through the piston in the latter; a valve seat on each of said pistons at the respective open ends of said passageways coaxial with each other and with the longitudinal axes of said pistons; valve means for closing said passageways carried by said piston unit and actuated by engagement with the heads of said cylinders when said piston unit approaches the limits of its travel

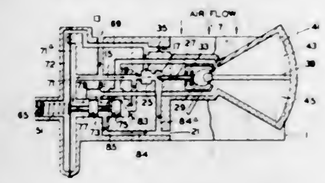
in opposite direction including a first valve for seating against the seat on the piston in said smaller cylinder and a second valve for seating against the seat on the piston in said larger piston; and a valve stem extending through a bore in said connecting rod and carrying said first and second valves at the opposite ends thereof.

2,661,727
INTERNAL-COMBUSTION ENGINE
Maurice Cousin, Paris, France
Application June 21, 1951, Serial No. 232,748
7 Claims. (Cl. 123—8)



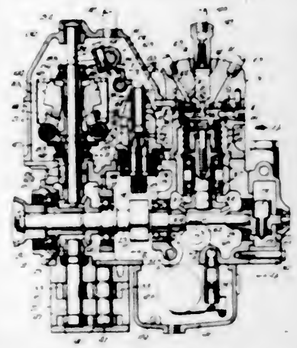
1. An internal combustion engine comprising a rotary cylindrical member, said member having on its periphery a plurality of helical grooves opening at both ends, a tight casing for the cylindrical member, said casing having at least two, diametrically opposed, lateral openings in communication with the outer atmosphere and adapted for successively and directly communicating with the helical grooves in the cylindrical member, a plurality of movable hollow helical members adapted for successively traversing said grooves and forming with these grooves and the walls of the casing working chambers of variable capacity, said casing providing a tight passage for the hollow helical members on each side of the rotary cylindrical member, a connecting duct opening at one end in the wall of said casing against a terminal surface of said rotary cylindrical member, and at its other end in the tight passage for the hollow helical members, a recess provided in the wall of each said hollow helical member on the side of said member and adapted to communicate with said connecting duct, means for injecting fuel in said connecting duct and means within said hollow helical member for igniting a gas mixture in the working chamber.

2,661,728
ENGINE GOVERNOR
Robert H. Thorner, Detroit, Mich.
Application March 11, 1948, Serial No. 14,282
34 Claims. (Cl. 123—103)



1. A governor for controlling the speed of an internal combustion engine, having an intake passage and a throttle valve therein, comprising in combination a conduit for conducting fluid from a region of higher pressure, to a region of lower pressure in the intake passage, two restrictions in the said conduit, one of the said restrictions being variable, the flow of fluid past said variable restriction being always in the same direction under governor operation, and means interconnecting said throttle valve and variable restriction operable to vary the said variable restriction as a function of the throttle movement whereby to maintain predetermined pressure in the said conduit between said restrictions, and a pressure device having a displaceable member for moving the throttle valve, said pressure device communicating with the conduit between the two restrictions, whereby the throttle valve is moved toward the closed position when the engine exceeds a predetermined speed, and the throttle valve moves toward the open position when the engine speed falls below the governed value.

2,661,729
FUEL FEEDING APPARATUS
Neville M. Reiners, Columbus, Ind., assignor to Cummins Engine Company, Inc., Columbus, Ind., a corporation of Indiana
Application June 2, 1948, Serial No. 30,549
10 Claims. (Cl. 123—139)



1. A fuel feeding apparatus for an internal combustion engine of the piston and cylinder type, comprising a piston and cylinder type metering pump for delivering metered quantities of fuel to the engine cylinders with the cylinder of the pump extending vertically and providing a pump chamber therein above the piston, said pump chamber having an intake port at its lower part, a bleed port at its top and a delivery port intermediate its ends, said intake and bleed ports being open during the initial portion of each delivery stroke of the piston, with the movement of the piston on the delivery stroke being adapted to close the intake port first and thereafter the bleed port, means for delivering fuel under pressure to said intake port, and a pressure-operated check valve in said delivery port to cause air in the pump to pass out through the bleed port as the fuel enters the intake port and to prevent its being forced through the delivery port.

2,661,730
ENGINE STARTER CONTROL APPARATUS
Paul L. Schneider, Harold J. Cromwell, and William H. Taylor, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 30, 1950, Serial No. 198,358
9 Claims. (Cl. 123—179)

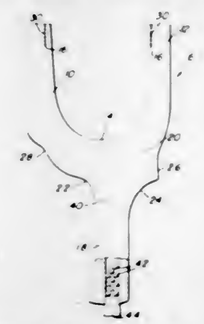
1. Engine starter control apparatus comprising a rotatable and axially movable shaft, manually operable means for rotating the shaft into a plurality of positions and for moving the shaft axially, stop means for blocking rotary movement

of the shaft from one of its positions to an adjacent position and vice versa and avoided by axial movement of the shaft, a switch for controlling engine starting apparatus, and having an operating member which moves parallel to the axis of the shaft, and a plate carried by the shaft



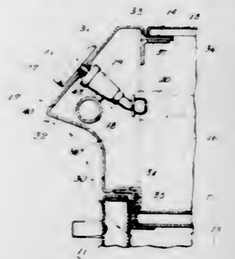
and presenting a surface for engagement with the switch operating member whenever the shaft is in either of its said positions of rotation, said plate being moved laterally in response to axial movement of the shaft, when in either of its said positions of rotation, to effect movement of the switch operating member to close the switch.

2,661,731
CATAPULT WITH IMPROVED FORK AND SLING
Arthur B. Casey, Montoursville, Pa.
Application June 4, 1951, Serial No. 229,785
2 Claims. (Cl. 124—20)



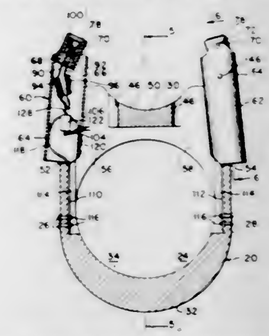
1. A precision-type catapult expressly designed for shooting game comprising a one-piece structure embodying a substantially U-shaped fork having spaced parallel prongs and a crotch between said prongs, a handle, said handle being polygonal in cross-section, and a finger-gripping stock providing a junctural connection between said handle and fork, one marginal edge of said stock having a recess shaped to provide a thumb rest, the latter being situated in alignment with the adjacent longitudinal axis of one prong, the marginal edge of the stock adjacent the other prong having a recess and a cooperating shoulder collectively defining a seat for the butt of the index finger, said handle being offset relative to the center of the crotch and having its longitudinal axis disposed between said last named seat and the center of said crotch, and a sling having elastic band portions joined at corresponding ends by way of a connecting saddle and having their opposite ends joined with the free end portions of said prongs.

2,661,732
GAS STOVE CONTROL PANEL
Daniel P. O'Keefe, Los Angeles, Calif.
Application March 9, 1945, Serial No. 581,890
6 Claims. (Cl. 126—39)



6. A stove including a cooking compartment, a door at the front of the stove closing the compartment, a fixed panel at the front of the stove above the door and forward of the compartment, and a control element at the front of the panel, the panel being formed of a continuous sheet of material having a substantially flat lower vertically disposed section extending upwardly from the compartment, an upper substantially flat downwardly and forwardly pitched section at which the said element is located and a substantially concave intermediate section extending upward and outward from the lower section to the lower edge of the upper section.

2,661,733
MEASURING DEVICE SUITABLE FOR DIAGNOSTIC PURPOSES
Nathan H. Polsky, Levittown, N. Y.
Application October 25, 1951, Serial No. 253,071
9 Claims. (Cl. 128—2)



1. A device of the character described comprising a first detector unit and a second detector unit spaced from said first detector unit a predetermined distance and adapted to overlie the surface of the skin of selected areas of the body of a patient, a main support, a first auxiliary support and a second auxiliary support, means for mounting said first detector unit on said first auxiliary support for pivotal movement with respect thereto and means for mounting said second detector unit on said second auxiliary sup-

port for pivotal movement with respect thereto whereby each detector unit may independently automatically pivotally adjust itself to irregularities in the contour of said selected body areas under examination, and means for mounting said first and second auxiliary supports on said main support in predetermined angular relationship with respect to each other, said last named means including means for manually altering said predetermined angular relationship between said first and second detector units to thereby alter the said predetermined spaced distance between said detector units.

2,661,734

ARRANGEMENT FOR RECORDING VARIATIONS IN THE ELECTRICAL RESISTANCE OF THE HUMAN BODY

Wolfgang Holzer and Adolf Marko, Vienna, Austria, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application January 17, 1948, Serial No. 2,933
In Austria September 6, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires September 6, 1965
7 Claims. (Cl. 128—2.1)



1. In apparatus for indicating the variations in the electrical resistance of a living body due to heart action, the combination which comprises a high-frequency voltage source, a resistance element, a comparison resistor, means to impress a first voltage derived from said source through said body across said element thereby to develop a high-frequency voltage across said element modulated in accordance with the variations in the resistance of said body, and means to impress a second voltage derived from said source and of an amplitude equal to said first voltage through said comparison resistor across said element in phase opposition to said first voltage whereby the resultant modulated voltage established across said element is substantially independent of fluctuations in said source.

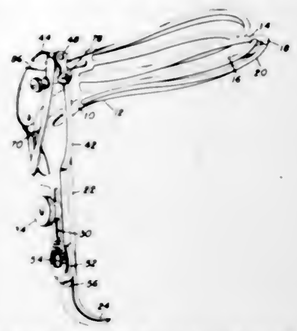
2,661,735

SPECULUM

Rachel Darden Davis, Kinston, N. C.

Application July 28, 1952, Serial No. 301,242
1 Claim. (Cl. 128—17)

A speculum comprising a pair of skeleton blades, each of said blades including an arcuate plate metal base, a plurality of wire-like ribs formed on said base, said ribs being secured together to provide a blade tip, a laterally extending handle on one of said blades, a bifurcated slide mounted for longitudinal motion on said handle, the other of said blades being pivotally mounted on said bifurcated slide, a longitudinal slot in said slide, a locking screw extending



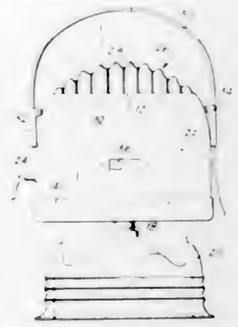
through said slot, a pair of parallel longitudinally extending grooves in said slide, a pair of upstanding ridges on said handle, said ridges being engaged in said grooves, said handle being concave, a depending guide on said slide, said guide being received in said concave handle.

2,661,736

ELECTRIC VIBRATOR FOR MASSAGE PURPOSES

Charles Schwartz, Norwalk, Conn., assignor to Republic Electric & Manufacturing Corporation, New York, N. Y.

Application August 20, 1952, Serial No. 305,443
3 Claims. (Cl. 128—41)



1. An electric vibrator for massage purposes and the like, comprising a casing of generally rounded horizontal profile and having flat upper and lower surfaces, a vibrator motor in said casing, a massage applicator beneath said casing, a vibratable shaft connecting said applicator with said motor, a grip element of generally convex profile secured to the upper surface of said casing and substantially covering the flat upper surface thereof, and a hand-engaging strap extending across the top of said grip element and secured at opposite ends to opposite side walls of said casing.

2,661,737

FACIAL UP-LIFT BAND

Elise T. Stokes, Greensboro, N. C.

Application August 11, 1952, Serial No. 303,713
3 Claims. (Cl. 128—76)

3. As a new article of manufacture, a readily applicable and removable facial feature uplift appliance comprising an elongate elastic band adapted to be placed in position for effective use by hand and to extend across a predetermined portion of the user's head, stretched lengthwise, and thus placed under constant retractile tension, and band-end hold-down pins for tensioning and anchoring said band in the desired position, said pins having end portions joined to the



cooperating respective end portions of said band, said pins, when said band is in use, having their free end portions directed toward each other and completely underlying the underneath side of the band, the portions of the band which overlie said pins being appreciably wider than the widthwise dimensions of the pins, whereby said pins are effectually covered and thus hidden from view by the overlying portions of the band.

2,661,738

MAN'S UNDERGARMENT

Philip Friedman, New York, N. Y.

Application October 16, 1951, Serial No. 251,506
1 Claim. (Cl. 128—159)



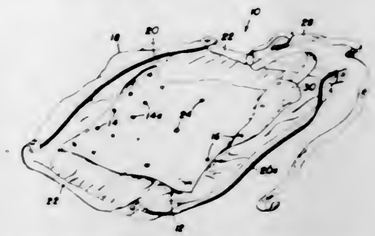
A garment comprising a back piece and front pieces secured together at the sides, the garment being open at the top, said pieces having unsecured edges at the sides adjacent the lower parts to leave openings for the legs and concave edges joined together at the bottom of said back and front pieces between said openings, the front pieces having adjacent edges the lower portions of which diverge, folded strips hemming said edges and each secured thereto along the entire length of said edges, one of said strips overlying the other, said strips being secured together adjacent their upper and lower ends and to the adjacent parts of said front pieces, the overlying strip along said lower portions being offset laterally beyond the other strip, said front pieces and said strips bulging outward along said lower portions, the strips and front pieces being unattached between the upper ends of the strips and said lower portions, to form an opening, the front pieces and strips being stitched together transversely adjacent the lower end of said opening.

2,661,739

BANDAGE

Readey Caskey, Jr., Brownwood, Tex.

Application March 3, 1952, Serial No. 274,585
5 Claims. (Cl. 128—165)



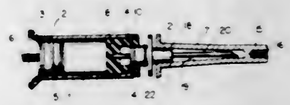
1. A bandage comprising a split tubular inner casing, means separably connecting the split edges of said casing together, a tubular outer jacket enclosing said casing, said jacket being longitudinally split from end to end, means separably connecting the split edges of said jacket together, and means associated with said casing and said jacket for separably fastening said casing to said jacket.

2,661,740

DISPOSABLE SYRINGE

George M. Hickey, Paoli, Pa., assignor to J. Bishop & Co. Platinum Works, Malvern Pa., a corporation of Pennsylvania

Application February 7, 1952, Serial No. 270,427
2 Claims. (Cl. 128—218)



1. A hypodermic syringe comprising a rigid cylindrical barrel having an inturned flange at one end thereof, a piston slidable in said barrel, said piston having a screw threaded stud projecting from one end thereof, a flexible cylindrical plug having an external groove, said plug being secured in one end of said barrel by the co-action of said inturned flange and said groove; said plug having also a cylindrical bore, a needle assembly comprising a cannula having an injection end, a perforating end and a hub therebetween, said hub comprising a tapered portion adjacent the injection end and a cylindrical portion adjacent the perforating end of said cannula and a flange therebetween, said cylindrical portion of the needle hub being of substantially the same size as said cylindrical bore in said plug and having at least one circular ridge thereon adapted to engage the wall of said bore, and a handle member having a bore in one end adapted to enclose the injection end of said cannula and to engage the frusto-conical portion of said hub and a threaded bore in the other end adapted to engage the threaded stud on said piston.

2,661,741

FOUNTAIN SYRINGE BAG

Hyman Puckman, New York, N. Y., assignor to Hermac International, Ltd., New York, N. Y., a corporation of New York

Application September 2, 1949, Serial No. 113,854
2 Claims. (Cl. 128—227)

1. A dispensing receptacle comprising an inherently flat, dilatable tubular thin-walled re-

ceptacle member formed of a collapsible and foldable, flexible material, said receptacle member open at one end and having an integrally formed open-ended sleeve extending outwardly from a closed edge thereof, a foldable flexible, flat tube having an outer circumference substantially equal to the inner circumference of the outer portion of said sleeve and a rigid nonmetallic slightly conical tubular nipple adapted to be tightly disposed within said sleeve, one end of said tube fitted over said nipple and said tube covered nipple fitted tightly within said sleeve.



2,661,742
MULTIPLE CONTAINER
Paul Hauduroy, Paris, France
Application August 14, 1950, Serial No. 179,128
Claims priority, application France
August 13, 1949
7 Claims. (Cl. 128—272)



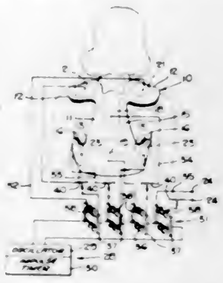
1. A multiple container comprising a primary container means containing a first ingredient of a mixture and having a top opening, a secondary container means containing another ingredient of said mixture, said secondary container means having a top opening and being secured in said primary container adjacent said top opening thereof, said secondary container having at least part of its bottom made of a frangible material, deformable seal means sealing said containers, and a perforating means in said secondary container having its bottom edge adjacent said frangible bottom part thereof, movable as a result of pressure exerted from outside through said deformable seal means to perforate said frangible part and allow said other ingredient to fall into said primary container and mix with said first ingredient.

2,661,743
FLUID CONTAINER
Hugh M. Archer, Dearborn, Mich.
Application December 29, 1951, Serial No. 264,023
3 Claims. (Cl. 128—272)

1. A sterile access device for removing and storing a blood sample from a blood container, comprising a chamber having an inlet means and formed from a concave inner wall and a concave resilient outer wall disposed adjacent said inner wall, said outer and inner walls being connected at their peripheries, a handle affixed to said outer wall for pulling said outer wall away from said inner wall to create a negative pressure within said chamber, and a flexible tube affixed to said inner wall and extending therefrom for insertion into a blood container.



2,661,744
DEVICE FOR TREATMENT OF THE MUSCLES OF THE UPPER TORSO
William J. Browner, San Francisco, Calif., assignor to Relaxacizor, Inc., Los Angeles, Calif., a corporation of California
Application May 9, 1950, Serial No. 160,936
3 Claims. (Cl. 128—379)



1. A device of the character described, comprising: a jacket of sheet rubbery material comprising a central spinal section, upper and lower laterally extending sections connected to the upper and lower portions of said central section, and pectoral sections connecting the extremities of said laterally extending sections, thereby forming armholes in the jacket, said sections having small openings therethrough; electrode members on the inner faces of said sections; and connector stems extending from said electrode members out through said openings to the rear faces of said sections.

2,661,745
PEA THRESHER HAVING SPRING ACTUATED BEATERS
John H. Nelson, Valders, Wis.
Application April 18, 1952, Serial No. 282,963
1 Claim. (Cl. 130—30)

An apparatus of the character described comprising a body including a pair of side walls, a plurality of transversely extending, longitudinally-spaced cylinders, each of which having a drive shaft journalled in said side walls, a pair of transversely extending cooperating feed rollers lying above the cylinder and journalled in said side walls, an endless conveyor extending to each pair of feed rollers to deliver vines thereto, a shield interconnecting said side walls and extending between each adjacent pair of endless conveyors and from a point beneath a rearward conveyor to a point above a forward conveyor of each adjacent pair of conveyors and below a cylinder, each of said cylinders having end walls, a pair of beater shafts extending through said cylinder and end walls in spaced parallel, diametrically opposed relation to said drive shaft, beater plates carried by the respective shafts and extending in opposite directions from one another, a crank arm fixed to each end of each beater shaft, an inwardly extending block mounted on each side wall of said body in the path of movement of the outer ends of said crank arms, and pairs of springs carried by said end walls of the cylinder and each pair of springs bearing against one side of one of said beater plates to violently impact the same against a portion of the vine crop fed to the cylinders from said feed rollers.



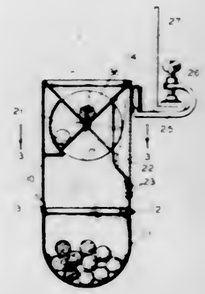
2,661,746
PROCESS OF AND APPARATUS FOR TREATING TOBACCO
Alexander W. Schoenbaum and Harold L. Barnes, Richmond, Va., assignors to The American Tobacco Company, New York, N. Y., a corporation of New Jersey
Application March 17, 1950, Serial No. 150,144
7 Claims. (Cl. 131—136)



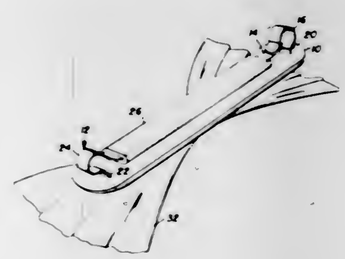
1. The process of separating tobacco particles entangled with or physically attached to slivers which comprises feeding the tobacco particles and slivers into a conduit with a change of direction, at the same time submitting it to a blast of air and steam to accelerate its movement through the conduit, and separating the tobacco from the slivers by an air separator.

2,661,747
SMOKER'S RECEPTACLE
Peter M. Manion, Portland, Oreg.
Application June 6, 1949, Serial No. 97,443
1 Claim. (Cl. 131—237)

A smoker's receptacle comprising a rectangular container open at its top, a bladed wheel rotatably mounted within the container between the ends thereof and adjacent the open top, a sealing member secured to one side of the container and comprising an inwardly and downwardly directed top flange and a sealing surface, the sealing surface being concentric with the bladed wheel and proportioned to be contacted by at least one pair of adjacent blades whereby to form a sealing chamber, a second top flange extending obliquely inwardly from the upper edge of the side of the container opposite the sealing member and terminating adjacent the bladed wheel, the said flanges forming with a pair of said blades a receiving trough substantially sealed from the lower portion of the container, and a leaf spring secured to the side of the container opposite the sealing member, the spring being adapted to contact the edges of a pair of said blades when another pair of blades are in contact with said sealing surface and when still another pair of blades are aligned with the said inwardly directed flanges, the spring thereby functioning to resiliently position the bladed wheel in successive stations of rotation, and a storage zone in the container below the bladed wheel adapted to receive the extinguished material from the sealing chamber upon rotation of the bladed wheel.

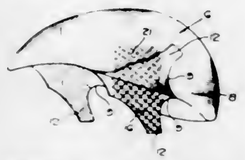


2,661,748
HOLDER
Matilda A. Racho, Riverside, Conn.
Application January 14, 1952, Serial No. 266,381
2 Claims. (Cl. 132—48)



1. A hair fastener comprising a molded decorative plastic member, a spring clasp of one-piece construction having a central portion thereof embedded with said member, said spring clasp having a clamping leg and a hook portion for retaining said clamping leg in a position whereby hair may be resiliently clamped against the under side of said member, the upper side of said member being provided with an integral mold loop adapted to have passed therethrough a decorative ribbon for securement to said member.

2,661,749
WIG CONSTRUCTION
Emil A. Corsillo, Los Angeles, Calif.
Application September 6, 1950, Serial No. 183,417
3 Claims. (Cl. 132—54)



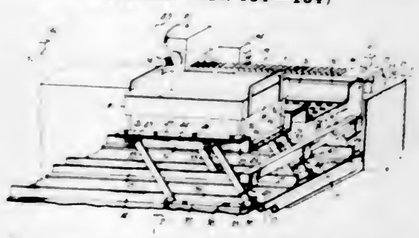
1. In a wig construction, a foundation member comprising a plurality of sheets of textile fabric impregnated with starch to stiffen and adhesively unite said sheets into a unitary structure shaped substantially in conformity with top and back portions of the head on which hair normally grows, and a reinforcing strip of hardware cloth embedded within said foundation member between said sheets of fabric.

2,661,750
UNDER-COUNTER DISHWASHER
Jacob W. McNairy, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application May 26, 1951, Serial No. 228,465
11 Claims. (Cl. 134—115)



1. In a washing machine of the type having a stationary cabinet with a substantially horizontal counter surface and a tub with an open top slideably mounted under said counter surface for movement between a position under said counter and a position withdrawn from said counter, and washing mechanism carried by said tub, that improvement comprising a cover for said open top movably carried by said cabinet under said counter surface, means on said cabinet normally biasing said cover away from sealing engagement with said open top, a control shaft movably mounted on said stationary cabinet above the path of movement of said tub and a lever on said shaft movable with said shaft to a control position to block said movement of said tub, means carried by said tub for operating said washing mechanism, said operating means being engageable by said lever upon movement of said shaft, said shaft also carrying means for moving said cover into sealing relation with respect to said open top when said tub is under said counter, a water inlet including a supply pipe with a substantially vertical downwardly directed open end carried by said stationary cabinet and a separate pipe section with an open top funnel carried by said tub, said open end being separated from said funnel by an air gap but being above said funnel when said tub is under said counter, a water outlet carried by said tub and cabinet, and valve means in said water inlet and said water outlet controlled by said means for operating said washing mechanism, for introducing water to the tub and draining water from the tub at pre-determined times.

2,661,751
BRINE TANK ELEVATOR
Tamis C. Schenk, Richmond Hill, N. Y., assignor, by mesne assignments, to Fruit Products Corporation, New York, N. Y., a corporation of New York
Application April 5, 1950, Serial No. 154,115
8 Claims. (Cl. 134—134)



1. In combination with a brine tank having a submerged mold receiving trackway extending horizontally thereof and a reciprocating pusher bar mounted transversely of the trackway adjacent the receiving end of said brine tank above the level of the brine thereof, a mold elevator including a horizontal tray mounted pivotally longitudinally above said trackway and forwardly of said pusher bar, said tray in its normal mold receiving position extending above said brine and adjacent the receiving end of said tank, means for reciprocating said pusher bar whereby said tray is moved forwardly and downwardly in a horizontal position until it is in substantial alignment with said trackway and below the plane of travel of said pusher bar whereby the latter engages the rear end of said mold and pushes it off said tray onto said trackway.

2,661,752
GARDEN UMBRELLA
Friedrich Kampf and Wolfgang Uthemann, Leichlingen, Germany, assignors of one-third to International Umbrella Supply Co., Inc., New York, N. Y., a corporation of New York, one-third to Sun Products Company, Little Ferry, N. J., a partnership, and one-third to Rosenkaimer & Cie., Leichlingen, Germany, a firm of Germany
Application October 15, 1952, Serial No. 314,869
1 Claim. (Cl. 135—20)



In a garden umbrella including a tubular hollow mast, a plurality of radially extending ribs jointedly connected thereto at least near the top thereof, a runner slidably mounted upon said mast, a plurality of stretchers each jointed with one end to a middle portion of one rib and with its other end to said runner, a rope or cable attached to said runner, said cable extending therefrom upwardly outside said mast and returning downwardly within said mast, a guide roller for said rope or cable rotatably mounted in the upper portion of said mast, said guide roller partially projecting through a slot in said mast, a reel attached to the other end of said cable to wind and to rewind the same in order to raise and to lower said runner and thereby to open and to close the umbrella, the improvement comprising a shaft traversing said hollow mast and rotatably mounted therein, said reel secured to said shaft and housed completely within said hollow mast, a manually operable crank attached to said shaft outside said mast, a hub integral with said crank, two flattened side surfaces upon said hub in opposing position, a collar slidably mounted on said mast, an axially extending slit in said collar fitting the said flattened side surfaces on said hub, and means to hold said collar in raised position disengaged from said hub.

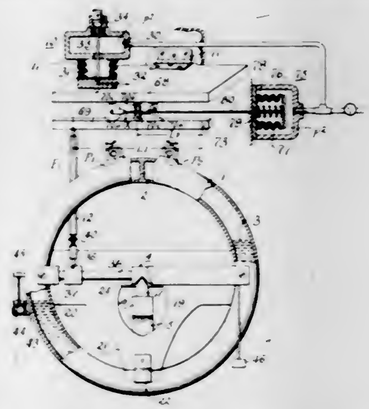
2,661,753
COMBINED SEAT AND SAFETY DISK ELEMENT FOR VALVES
John H. Stroop, New York, N. Y., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application May 7, 1946, Serial No. 667,902
2 Claims. (Cl. 137—68)



1. A combined seat and safety disc element for a valve wherein a valve member is adapted to confine normally gaseous media under relatively high pressure and is adapted to be operated at will to control the discharge of the confined media, said element comprising a rigid metallic disc having a central aperture, an annular valve member seating surface surrounding said aperture at one side of said disc, and a generally annular reinforcing portion of increased thickness surrounding said seating surface, said disc having a generally annular groove at one side thereof adjacent to and surrounding said reinforcing portion and providing an annular zone of decreased thickness serving to weaken said disc and facilitate rupture thereof at said groove upon a greater than a predetermined pressure being exerted on said disc.

2,661,754
PRESSURE DIFFERENTIAL RESPONSIVE DEVICE
Robert R. Donaldson, Jr., Forest Hills, Pa., assignor to Hagan Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 9, 1949, Serial No. 109,324
4 Claims. (Cl. 137—86)

1. A device for developing fluid pressures that vary in magnitude as a function of a pressure differential comprising a hollow ring mounted on a substantially frictionless bearing at the center thereof, said ring having a partition therein located at a point above the bearing and a quantity of heavy liquid in the portion of the ring below said bearing which, together with the partition, form two chambers that are sealed from each other by said liquid, a valve disposed to be actuated by said ring in response to angular movement thereof on its bearing resulting from unequal pressures being applied to said chambers, said valve developing a fluid pressure at its outlet whose magnitude varies with the angular displacement of said ring, a balancer comprising a pair of parallel levers, each lever having a single pivotal support, said pivotal supports being spaced from each other in a direction lengthwise of the levers, a bearing between said levers and between said pivots whereby motion is transmitted from one lever to the other, a housing having a pressure chamber and a flexible diaphragm closing one side thereof and bearing on one of said levers, a thrust link between said ring and said other lever for transmitting a

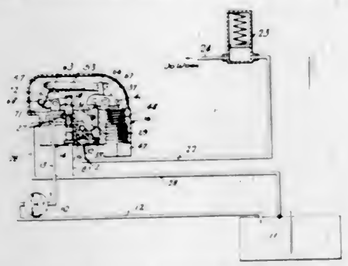


force from said ring to said levers, said valve being actuated by said levers in response to movement of said ring for establishing a pressure in said housing, and a chambered member having a diaphragm subjected to the pressure transmitted to the chamber of said housing by said valve and connected to the bearing between said levers for shifting the same between said pivots to positions corresponding to the value of pressure transmitted by said valve, whereby the pressure developed by said valve and acting on said ring through said levers and thrust link in opposition to the force exerted by the pressure differential on said ring is caused to vary as the square root of the pressure differential acting on said ring.

2,661,755
UNLOADING VALVE FOR FLUID PRESSURE SYSTEMS
Joseph J. Slomer, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application May 1, 1946, Serial No. 666,467, now Patent No. 2,467,238, dated April 12, 1949. Divided and this application December 21, 1948, Serial No. 66,560
8 Claims. (Cl. 137—108)

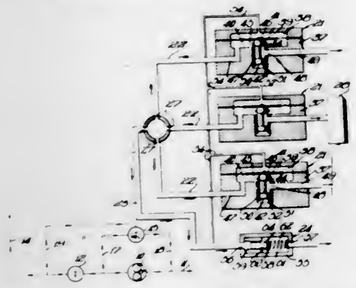
1. In a pressure regulating valve, a valve block, a valve chamber within said block, a pressure passageway leading into said valve block to said valve chamber, a passageway leading from said chamber out of said block, a valve piston movable within said block into position to block the passage of fluid from said chamber to said second passageway, a pressure passageway leading from said chamber out of said block, a check valve in said passageway, to prevent the passage of fluid from said passageway back to said chamber, a surge chamber connected with said last men-

tioned passageway, on the side of said check valve opposite from said chamber, a piston movable within said surge chamber, and an operative connection from said piston to said valve piston to move said valve piston to a position to release fluid through said passageway leading from said valve chamber upon predetermined pressures in said pressure passageway leading from said valve block, said operative connection including a rocking member, an operative connection from said piston to said rocking member, for moving said rocking member in one direction, yieldable means having engagement with the opposite end of said rocking member for moving said rocking member in another direction and for retracting said pis-



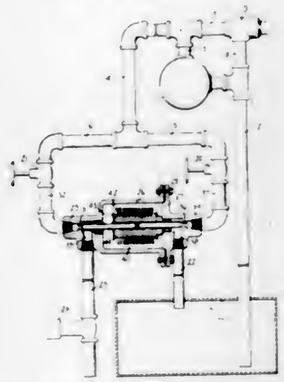
ton within said surge chamber, a lever arm pivoted intermediate its ends and having operative connection with said valve piston for moving said valve piston along said valve chamber, the end of said lever arm opposite from said valve piston having a V-shaped engaging surface, and a roller connected with said rocking member and yieldably urged into engagement with said V-shaped engaging surface of said lever arm, for instantaneously pivoting said lever arm in one direction upon pivotal movement of said rocking member in an opposite direction, to cause said rocking arm to quickly move said valve piston into position to release fluid from said passageway leading from said chamber, when pressures in said surge chamber reach a predetermined value.

2,661,756
FLOW CONTROL APPARATUS
T Cyril Noon, Bainbridge Township, Geauga County, and Frank C. Bayer, Euclid, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 5, 1951, Serial No. 219,362
8 Claims. (Cl. 137—118)



1. Flow control apparatus for maintaining proportional flows through at least three passages from a common pressurized fluid source, comprising an orifice valve fluid connected to said pressure source and having pressure actuated means therein defining at least three variable area metering orifices opening downstream into said passages, respectively, said means maintaining a predetermined proportional relation between the flow areas of said metering orifices regardless of the fluid pressure bias actuating said means to open said orifices, and pressure-actuated mechanism in certain of said passages downstream of said orifice valve, another of said passages serving as a pilot passage, said pressure-actuated mechanisms each including a flexible diaphragm, devices each defining a variable area aperture in one of said certain passages and operatively associated with one of said diaphragms, fluid pressure in said certain passages upstream of said variable area apertures acting on one side of each of said diaphragms to open said apertures, and means referencing fluid pressure in said pilot passage to the other side of each of said diaphragms to close said apertures for maintaining equal pressures in the passages between the orifice valve and said mechanisms.

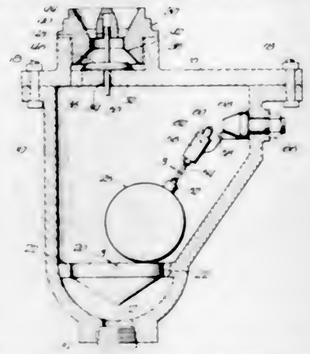
2,661,757
CONTROL APPARATUS FOR DIVIDING FLUID FLOW MECHANISMS
Harold A. Lines, Hamden, Conn., assignor to Fluid Systems, Incorporated, Hamden, Conn., a corporation of Connecticut
Application December 18, 1951, Serial No. 262,294
6 Claims. (Cl. 137—118)



1. A fluid flow control apparatus comprising means for dividing a fluid flow along two paths, a regulating valve in each of said paths, a casing providing a chamber having a collapsible bellows therein and sealed therefrom, said casing having a port in communication with each of said paths, tubular means carried by a movable wall of said bellows and adapted to throttle said ports, and said tubular means providing communication between one of said ports and said chamber and between the other said ports and the interior of the bellows.

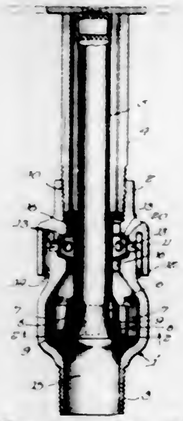
2,661,758
VALVE
Henry J. Persha, Portland, Oreg.
Application February 14, 1950, Serial No. 144,150
1 Claim. (Cl. 137—202)

A valve assembly for venting gas in liquid-containing system, comprising a casing communicating with the system, the casing having a vent in the upper surface thereof and a port in a side wall thereof, a float within the casing, a first valve having thereon an inwardly-extending projection, an arm attached at one of its ends to the float, a needle pivotally attached intermediate its ends to the other end of the arm for movement independent thereof, a housing rigidly secured adjacent to the needle valve end of the arm and surrounding said valve in spaced relation thereto to permit limited movement of the needle into and out of axial alignment with the port axis, pivot means interconnecting the said needle valve housing to the casing adjacent to the side wall port with the needle stationed opposite the port and adapted to open and close the same with the motion of the float,



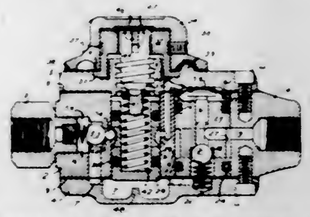
the needle acting upon initial lifting by the float to engage the port in axial misalignment and upon final lifting by the float to pivot into alignment with the port to seat itself in the port and simultaneously restrain the upward motion of the float after the said float has engaged and initially moved the projection on the first valve and prior to contact of the float with the top of the casing, the closing of the first valve thereby being initiated by contact of the projection on the same with the float, but being completed by the flow of liquid within the casing.

2,661,759
BACKFLOW PREVENTER FOR WATER HYDRANTS
George E. Hansen, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application October 16, 1948, Serial No. 54,923
6 Claims. (Cl. 137—217)



1. In a backflow preventer, the combination including a casing having an inlet and an outlet, a spider element between said inlet and said outlet, air inlet means positioned adjacent the inlet end of said casing, the said spider element being positioned downstream of the said air inlet means and having a central apertured portion, a ferrule receivable within the central apertured portion of the said spider element, a flexible tube rigidly secured to the casing inlet and folded back on itself so that the inner portion thereof serves as a water delivery tube, the said spider being located in proximity with the fold in the flexible tube, the said ferrule cooperating with the said spider element to hold the tube in place, air inlet ports around the flexible tube adjacent the air inlet means, the air inlet means and air ports being located between the casing inlet and the said spider, the outer portion of the said flexible tube serving as a valve for the air inlet ports, the said air inlet means, said air inlet ports and casing outlet being in communication whereby upon the occurrence of a vacuum within the outlet end of the casing the flexible tube is collapsed thereby to permit the entry of air through the said air inlet ports.

2,661,760
PULSATING TYPE TIRE GAUGE
Ernest O. Anderson, San Jose, Calif.
Application April 12, 1948, Serial No. 20,492
6 Claims. (Cl. 137—225)

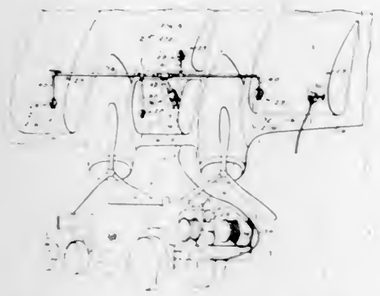


5. An automatic tire inflation gauge comprising a compact portable block having a main passage therethrough to receive and discharge air under pressure, one only normally closed spring-pressed main valve in the main passage, one only coiled control spring arranged in the block, a rotatable spindle threaded in the block for variably loading the control spring, a balance chamber in the block and axially aligned with the control spring, means forming a wall of the chamber and axially aligned with and movable by the control spring to constrict the chamber and movable by pressure in the chamber to tension the control spring, means rendered operative and governed by the loading of said control spring against the pressure in said balance chamber including a resiliently loaded cam device for unseating said main valve to open the main passage, and a free passage in the block directly connecting said balance chamber with the main passage on the discharge side of the main valve whereby pressure in the balance chamber is equalized with pressure in the main passage to effect closing of the main valve.

2,661,761
MULTIPLE FUEL TANK SERVICING SYSTEM FOR AIRCRAFT
David Samiran, Dayton, Ohio
Continuation of application Serial No. 546,728, July 26, 1944. This application January 31, 1950, Serial No. 141,567
10 Claims. (Cl. 137—235)
(Granted under Title 35, U. S. Code (1952), sec. 266)

6. In a fuelling system, the combination of a series of fuel tanks each having an inflow opening

and a vent, a manifold having a branch conduit extending to each inflow opening, a hose connection in said manifold having the inner end in flow communication with said manifold and the outer end formed to receive a servicing hose nozzle, a valve structure in each tank, flow connected to the outer ends of the branch conduits.



adapted in the closed position to prevent fuel outflow through said branch conduits, float mechanism associated with each said valve structure adapted to close said valve at a predetermined fuel level and one-way valve means including in said valve structure adapted to permit flow backwardly through said vents, said branch conduits and said manifold through said hose connection.

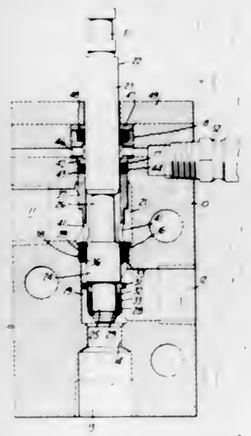
2,661,762

VALVE CONSTRUCTION

Austin U. Bryant, Berkeley, Calif., assignor, by mesne assignments, to Grove Regulator Company, Emeryville (Oakland), Calif., a corporation of California

Application August 15, 1949, Serial No. 110,350

1 Claim. (Cl. 137—454.7)



In a valve of the character described, a body having passages for flow of fluid therethrough, a bore formed in the body, a plunger disposed in the bore and movable axially between limiting open and closed positions to control flow through the body, a pair of first and second annular sleeves disposed end to end and surrounding one portion of said plunger, a shoulder formed on the body serving to seat the first one of said sleeves, an annular resilient seal ring contacting the plunger and providing a direct fluid seal between the plunger and the body, the adjacent ends of said sleeves being formed to provide an annular recess to loosely accommodate said annular resilient seal ring, the second one of said annular sleeves loosely fitting the plunger and body, said second sleeve being ported and the ports in the same communicating with one of said flow passages, another annular resilient seal ring surrounding the plunger and positioned adjacent that end of the second sleeve which is remote from said adjacent ends, said second ring being adapted to contact the plunger and providing a direct seal between the plunger and the body for closed position of the plunger, an annular retaining ring loosely fitted within the body adjacent the outflow side of said second seal ring, said retaining ring and said sleeve being shaped to form between them an annular recess for loosely accommodating said other seal ring, a shoulder formed on the body and serving to seat said retaining ring, said shoulder being faced toward the inflow side of the valve, and means carried by the plunger serving to engage said retaining ring to effect removal of the same together with said first and second sleeves and said annular seal rings when said plunger is retracted from the body, said plunger having a portion of reduced diameter located between said seal rings for closed position of the valve, said portion being movable to a position within the second seal ring for open position of the valve.

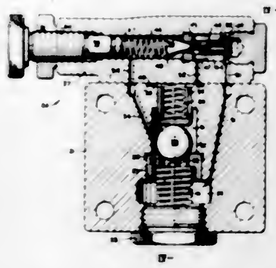
2,661,763

RELIEF, SEQUENCE, AND UNLOADER VALVE

Wendell E. Renick, Columbus, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio

Application October 22, 1952, Serial No. 316,128

4 Claims. (Cl. 137—489)



1. A fluid pressure control valve comprising a body with an internal bore, a control pressure chamber and spaced inlet and outlet ports communicating with said bore; a valve seat insert disposed in said bore between said ports; resilient means yieldably urging said insert toward a predetermined position, said insert being responsive to a higher pressure in said outlet than in said inlet to move in opposition to said resilient means; a valve element engaging said seat insert on the outlet port side; a spring-pressed plunger urging said valve element toward said seat insert, said plunger being responsive to the pressure in said control pressure chamber; means for disengaging said valve from said insert when the latter is moved in opposition to said resilient means; and a pilot valve responsive to the pressure in said inlet port to regulate the pressure in said control pressure chamber.

2,661,764

AUTOMATIC EMERGENCY VALVE CONTROL FOR AIR HOSES AND THE LIKE

Axel Johnson and Ancel S. Page, Portland, Oreg.

Application September 17, 1951, Serial No. 246,903

6 Claims. (Cl. 137—517)

1. In an automatic shut-off valve control assembly of the character described, a rigid tubular element, a tubular main valve member of resilient, flexible material positioned in said element, the exterior diameter of said valve member being approximately equal to the internal diameter of said element, the tubular wall of said valve member formed with a protruding trough-like lip extending from one end, the outer surface of said lip normally in contact with the interior wall of



said element, said lip having identical side walls merging in a tip, the maximum length of said lip being not greater than the diameter of said interior wall of said element, and a rigid tubular reinforcement in said main valve member, said lip extending entirely beyond the end of said reinforcement, whereby said lip will not be prevented by said reinforcement from being thrust from said interior wall of said element.

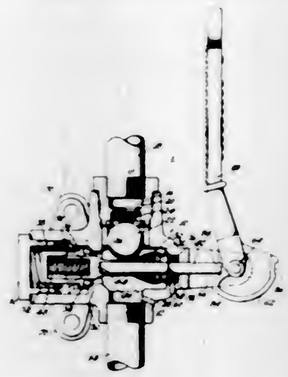
2,661,765

VALVE ASSEMBLY

Raymond A. Troy, Palisades Park, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey

Application October 27, 1949, Serial No. 123,869

7 Claims. (Cl. 137—627.5)



1. A valve assembly of the class described comprising a body having a gas inlet port, an air inlet port, an air outlet port, and a chamber in communication with each of said ports; a normally closed gas inlet valve controlling the gas inlet port; a normally open valve controlling the air outlet port; a movable stem extending into said chamber; a substantially conical resilient member extending about said stem and connected for movement therewith upon the initial movement thereof to effect the closing of said air outlet valve; and means operable by said stem subsequent to the closing of the air outlet valve for opening the gas inlet valve, whereby gas will be permitted to enter said chamber and pass out thereof through the air inlet port.

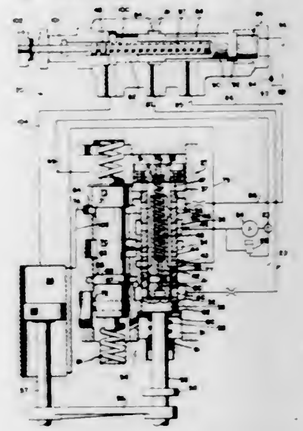
2,661,766

HYDRAULIC APPARATUS

Cecil E. Adams, Columbus, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio

Original application March 12, 1947, Serial No. 743,127, now Patent No. 2,569,213, dated September 25, 1951. Divided and this application June 15, 1948, Serial No. 33,211

6 Claims. (Cl. 137—689)



1. A time delay valve comprising a body provided with a chamber, an intermediate port extending from said chamber and a laterally extending port on either side of said intermediate port; a spool element disposed for movement in said chamber and normally obstructing communication between said ports; a passage formed in said spool to establish communication between one of said laterally extending ports and one end of said chamber; spring means normally urging said spool element toward said one end of said chamber; a check valve having an orifice disposed in the passage in said spool, said check valve serving to permit relatively unrestricted fluid flow from said port to said chamber end and controlled fluid flow in the opposite direction, said spool being movable in response to a higher pressure in said one end of said chamber than in the other end to a position in which communication between said intermediate port and the port communicating with said one end of said chamber is established; and means for regulating the distance said spool is moved by such pressure.

2,661,767

FUEL PUMP DIAPHRAGM MOUNTING

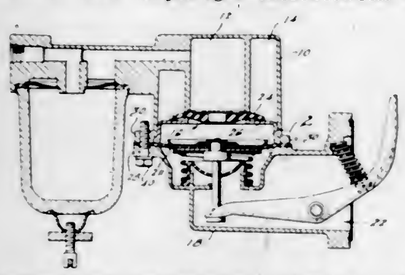
Wade Lamb, Detroit, Mich., assignor to F. L. Jacobs Co., Detroit, Mich., a corporation of Michigan

Application January 20, 1950, Serial No. 139,555

1 Claim. (Cl. 137—791)

In a fuel pump, a casing including a pair of complementary elements having cooperating annular flanges, a diaphragm extending transversely of said casing and having an annular marginal portion received between said flanges, one of said elements having an annular recess formed in the radially inner annular portion of the flange thereof and communicating with the interior of said casing, a plate extending transversely of said casing at one side of said diaphragm and having an annular marginal portion received in said recess and of a thickness slightly greater than the depth of said recess measured at right angles to

the surface of said flange engaging said diaphragm, said marginal portion of said plate cooperating with the inner portion of the flange of the other of said elements to grip said marginal portion of said diaphragm therebetween when



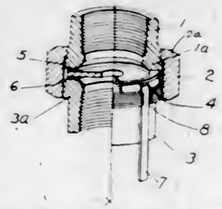
the latter is gripped between said flanges of said casing elements, and means for effecting said gripping of the marginal portion of the diaphragm between the flanges of said elements.

2,661,768

INDICATING ORIFICE PLATE FOR THREADED ORIFICE UNION

August W. Novak, Union, and Roy F. Mildrum, Hillside, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application October 29, 1949, Serial No. 124,434
5 Claims. (Cl. 138—44)



1. A conduit flow-restricting coupling device, comprising a pair of tubular coupling elements, each engageable at one end with one of two adjoining conduit section ends, a plain outwardly flanged head on one element, an internally threaded union nut rotatably carried by said head, an outwardly flanged head on the other element, having a threaded edge engageable by said nut, a recess in said threaded edge of a depth greater than the threads thereon and disposed in substantially right angular relation thereto, a flow-restricting plate member disposed laterally of said coupling between the flanged heads, held in fluid-tight relation therebetween by means of said nut, and an elongated tab joined to the peripheral edge of said member at substantially right angles thereto extending outwardly from said coupling through said recess in substantially parallel relation to the axis of the coupling device and accommodated therein wholly below the depth of the threads on said threaded flange edge.

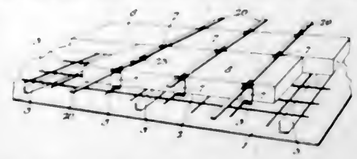
2,661,769

INSULATED AIR DUCT

Leon E. Butler, Philadelphia, and Fredrick J. Siemers, Havertown, Pa., assignors to Achenbach & Butler, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application April 8, 1950, Serial No. 154,858
5 Claims. (Cl. 138—64)

1. An air duct comprising an inner metal wall; fluid passageway spacing means formed in said metal wall; wire mesh mounted on the outer surface of said spacing means; outer pre-formed insulation blocks mounted on said wire mesh; se-



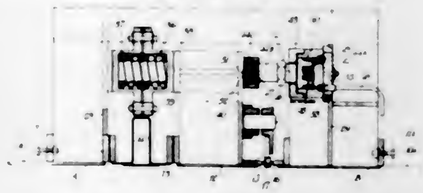
curing bands overlying the outer surfaces of a multiplicity of said insulation blocks; and clip means rigidly securing said securing bands and insulation blocks to said wire mesh.

2,661,770

GOGGLE VALVE

George Hookham, London, England, assignor to John Miles & Partners (London) Limited, London, England, a British company

Application October 26, 1949, Serial No. 123,621
Claims priority, application Great Britain September 7, 1949
4 Claims. (Cl. 138—94)



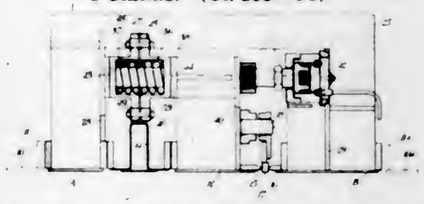
1. A goggle valve for controlling the flow of fluid through two coaxially spaced pipe sections, comprising means for holding adjacent ends of the pipe sections at a fixed axial distance apart, an axially movable ring located between the fixed ends of the pipe sections, an expansion joint movably connecting said ring to one pipe section, a transversely movable goggle plate removably engageable between the ring and the other pipe section, springs between the ring and one pipe section to urge the ring towards the other pipe section and thereby tightly knitting said goggle plate between said ring and other pipe section, and rams engaged between the ring and the other pipe section for moving the ring away from the said other pipe section against the action of the springs.

2,661,771

GOGGLE VALVE

George Hookham, London, England, assignor to John Miles & Partners (London) Limited, London, England, a British company

Application October 26, 1949, Serial No. 123,622
Claims priority, application Great Britain September 7, 1949
5 Claims. (Cl. 138—94)



1. A goggle valve for controlling the flow of fluid comprising two coaxially spaced pipe sec-

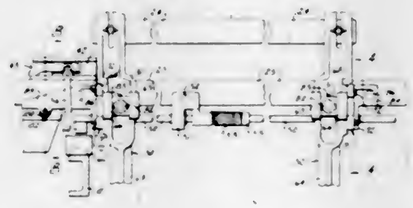
tions, means connected to said pipe sections for holding adjacent ends of the pipe sections at a fixed axial distance apart, an axially movable ring located between the fixed ends of the pipe sections, an expansion joint movably connecting said ring and one pipe section, a transversely movable goggle plate removably engaged between the ring and the other pipe section, a plurality of pairs of springs respectively disposed at spaced angular positions around the exteriors of the pipe sections, each of said pairs of springs being engaged between the ring and said one pipe section so as to force the ring towards the other pipe section, and rams engaged between the ring and the other pipe section to force the ring away from said other pipe section against the action of the springs so that said goggle plate may be removed from or inserted between said ring and the other pipe section, each of said springs being removable transversely of the pipes independently of the rams and all other springs.

2,661,772

SWORD WITH REMOVABLE PROTECTOR ROD BRACKETS

Jesse B. Goodgame, Charlotte, N. C., assignor to Precision Gear and Machine Company, Charlotte, N. C., a corporation of North Carolina

Application December 19, 1952, Serial No. 326,953
6 Claims. (Cl. 139—1)



1. In a loom having a lay and a pair of pitman arms, a pivot shaft on the front end of each pitman arm, a protector rod extending beneath, and substantially parallel to, said lay, and swords for supporting the lay each having a pair of spaced ears thereon between which the front ends of said pitman arms are adapted to fit; the combination of a flat outer surface on each of said swords adjacent the corresponding ear, a detachable protector rod bracket removably secured to said flat surface on each sword, each protector rod bracket having a bearing holding projection thereon projecting in a direction away from the corresponding ear of the sword and disposed beneath said lay for supporting the corresponding portion of the lay, each of said ears and the bearing holding projections having a bore therein, and an anti-friction bearing mounted in each of said bores for oscillatably supporting said protector rod and said pitman arm pivot shaft.

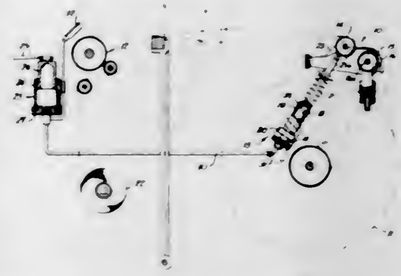
2,661,773

TENSION CONTROL FOR THE LET-OFF MECHANISMS OF LOOMS

George W. Kretzschmar, Ridgewood, N. J.

Application August 26, 1950, Serial No. 181,663
3 Claims. (Cl. 139—97)

1. In a loom having a frame of spaced side members, a warp beam rotatably mounted in one end of the frame, and a tension unit one end of which is pivotally mounted between the side members and above the warp beam; the improvements comprising a tension control device for the tension unit, the tension control device comprising an auxiliary cylinder disposed on each side member of the loom below the tension unit, the top of each auxiliary cylinder being open and upwardly directed toward the free end of the tension unit, a piston reciprocable on the outside of each auxiliary cylinder, the top of each



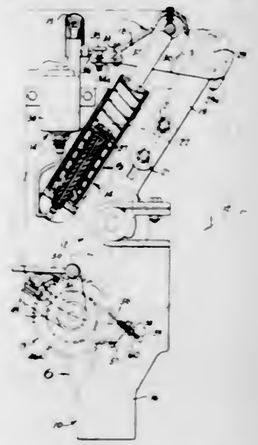
piston being closed and in opposed relationship with the open top of the auxiliary cylinder, a spring member in operable engagement with each piston and the corresponding free end of the tension unit, means for simultaneously introducing a fluid pressure into each auxiliary cylinder and piston, and means for simultaneously releasing the fluid pressure from each auxiliary cylinder and piston.

2,661,774

DEVICE FOR MAINTAINING THE TENSION IN THE WARP THREADS OF A LOOM UNIFORM

George W. Kretzschmar, Ridgewood, N. J.

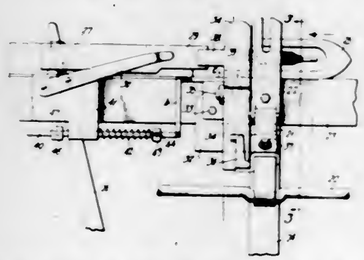
Application May 3, 1951, Serial No. 224,357
9 Claims. (Cl. 139—110)



1. A tension unit for the thread from the warp beam of a loom, the unit comprising two end housings, each end housing comprising spaced parallel side and end members and a top member, the bottom of each housing being open and the members being secured along corresponding edges, the side members of each housing having a pair of aligned openings formed therein adjacent the outer end and a second pair of aligned openings formed therein adjacent the inner end, the second pair of openings being equally spaced from and above the first pair, a tension roller shaft rotatably disposed through the first pair of aligned openings in each housing, a tension

roller for the warp thread from the beam rotatably disposed on the shaft, a whip roller for the warp thread from the tension roller rotatably disposed between the second pair of aligned openings of each housing, means for rotatably mounting the warp beam adjacent the warp end of the loom, means coacting with the shaft of the tension roller for pivotally securing the end housings on opposite sides of the loom with the whip roller adjacent the end of the loom and the rollers above and parallel to the warp beam, a flexible tie rod disposed on the inner ends of the housings, means for distributing the forces acting on the tie rod to the shaft of the tension roller, means for maintaining the whip roller under tension against the warp threads, and signal means coacting with the shaft of the tension roller to indicate when the pressure of the whip roller against the warp thread exceeds predetermined limits.

2,661,775
SHUTTLE LOCK FOR LOOMS
James Chapman, Sr., and Roger Nixon Reynolds, Sr., Atlanta, Ga.
Application October 13, 1950, Serial No. 190,034
5 Claims. (Cl. 139—187)



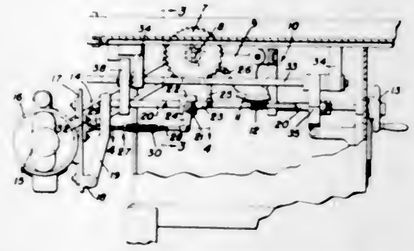
1. In a loom, a lay, a crankshaft, a pitman connecting the lay to the crankshaft, a shuttle box on the lay, a spring-pressed shuttle binder, and a picker stick, the combination therewith of a swivel stand on the lay, a lever on the stand, said lever being pivoted for movement in a plane extending lengthwise of the loom, a finger extending laterally from said lever into the path of movement of said binder, resilient means moving said lever to force said finger against the binder, a bunter on the pitman for moving said lever into idle position, a latch for holding said lever in such idle position, and means actuated by a shuttle at the end of its flight for releasing said latch.

2,661,776
PRESSURE BANDAGE
Eugene Gamber, Chicago, Ill., and Herman Freiberger, Glen Rock, N. J., assignors, by direct and mesne assignments, of one-third to said Gamber and two-thirds to Medical Fabrics Co., Inc., Paterson, N. J., a corporation of New Jersey
Application July 9, 1951, Serial No. 235,838
1 Claim. (Cl. 139—421)



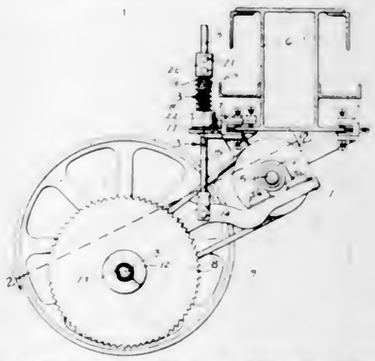
An elastic textile bandage comprising substantially parallel non-elastic fibrous filling strands and elastic fibrous warp strands, said filling strands being lengthwise non-elastic and transversally cushionable, said filling strands being positioned across the width of said bandage, said elastic strands being lengthwise elastic and woven under and over across the filling strands, said bandage being a combination of two bandage sections united by means of the continuous weave of said elastic strands, the filling strands of one section being thicker than the filling strands of the other section, the section having the thicker filling strands is longer than the other section and is rendered less elongatable than the other section.

2,661,777
SELF-ADJUSTING MOTOR MOUNTING FOR VERTICALLY ADJUSTED SAWS
Edgar J. Hitchcock, New Philadelphia, Ohio
Application September 15, 1952, Serial No. 309,623
2 Claims. (Cl. 143—35)



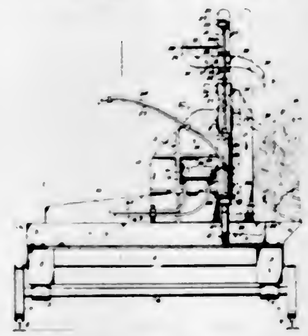
1. In a saw machine, the combination of a vertically swingable circular saw arbor and a motor mounting at the rear of the machine including a stationary member and a swingable member movable inwardly and outwardly with respect to the stationary member, a motor on the swingable member, a belt drive connecting the motor to the saw, adjustable means for the saw arbor, and means connecting the arbor to the swingable member of the motor mounting to synchronize adjustment thereof, said connecting means including a bell crank lever having a horizontally positioned arm and a vertically positioned arm, means pivotally supporting said bell crank lever in a stationary position under the arbor and in front of the swingable member, a link connecting the horizontal arm to the arbor, and a link connecting the vertical arm to the swingable member of the motor mounting.

2,661,778
TRIMMER SAW
Edwin W. De Koning, Portland, Oreg.
Application July 25, 1950, Serial No. 175,680
3 Claims. (Cl. 143—41)



1. In combination with a vertically movable trimmer saw mechanism having no counterbalance weights, yet having substantially the entire moving mass thereof located to one side of a fixed pivot, a free-floating rod means linked to the saw mechanism on said one side of the pivot to damp the downward movement of the mechanism, a frame member having a hole through which said rod is threaded for reciprocal movement, a washer surrounding said rod and supported upon said frame member, a resilient element supported upon said washer in position to fold thereover when compressed, a compression spring of greater diameter than said washer supported upon said resilient element, and a collar secured to said rod above said spring to bear thereon whereby the downward movement of said rod causes said spring to flex said resilient element laterally and bulge the same over the said washer.

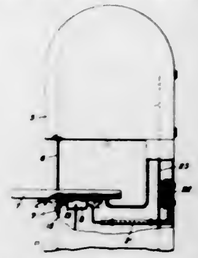
2,661,779
COMBINATION LOG-DOGGING AND TAPER-SETTING APPARATUS
William G. Saunders, Eugene, Oreg.
Application November 7, 1952, Serial No. 319,212
2 Claims. (Cl. 143—122)



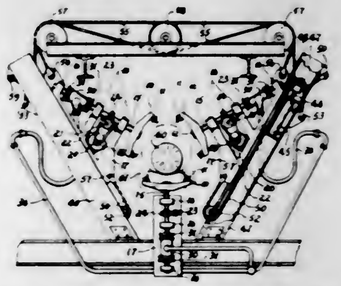
1. Apparatus of the class described comprising in combination an auxiliary head-block adapted to be secured to a main head-block on a sawmill carriage, said auxiliary head-block comprising a vertical frame, a vertical taper-setting plate slidably attached to said frame, at least one dog slidably attached to said plate and adapted for vertical and horizontal movement, pressure-actuated means carried by said plate and adapted at one of its ends to move said dog upwardly or downwardly in a vertical plane, a second dog secured to the opposite end of said pressure-actuated means, a second pressure-actuated means carried by the frame and connected to said plate for moving the same outwardly and inwardly with respect to said frame, whereby said dogs will be pulled into and forced out of engagement with a log upon actuation of said first mentioned pressure-actuated means and whereby said plate will shift said log outwardly or inwardly with respect to said frame upon actuation of said second pressure-actuated means.

2,661,780
AUTOMATIC MAGNETIC BRAKE FOR BAND SAWS
Joseph P. Morgan, Wampum, Pa., assignor of forty-nine per cent to Harry Crisci, New Castle, Pa.
Application August 2, 1950, Serial No. 177,203
2 Claims. (Cl. 143—157)

1. In combination with a band saw, a switch including a slidable switch arm, spring means tending to close the switch, said arm being held in open position against and by the saw and against the urging of the spring and closed by the spring upon a break in the saw, and an electrically energized magnet connected to and controlled by the switch, said magnet being positioned adjacent the saw to attract and hold the latter stationary by the closing of the switch.



2,661,781
HYDRAULIC BARKING OR CLEANING APPARATUS
Howard Allan Simons, Vancouver, British Columbia, Canada
Application April 4, 1949, Serial No. 85,449
11 Claims. (Cl. 144—208)



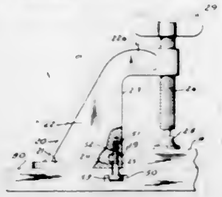
2. In hydraulic barking or cleaning apparatus through which logs are moved, means for directing high velocity water jets on to the surface of each log moving through the apparatus, and means for rotating the jets around a common axis spaced therefrom and lying substantially perpendicular to a longitudinal axis of the log for causing said jets to follow substantially compound cycloidal paths along the log during movement of the latter.

2,661,782
BARK PEELER HAVING PIVOTED JAWS SPREAD BY FLUID PRESSURE
Robert E. Burton, Willits, Calif.
Application April 1, 1952, Serial No. 279,838
3 Claims. (Cl. 144—208)



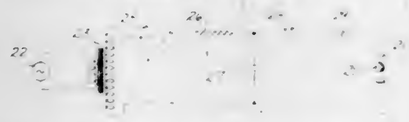
1. In a debarking device, a pair of controlling levers pivoted to form a pair of jaws adapted to be inserted between the bark and the wood, means for separating said jaws including a fluid ram positioned between the controlling levers of said jaws, and means for controlling said ram including a valve to control the supply of fluid under pressure to said ram.

2,661,783
QUICKLY ATTACHABLE OR REMOVABLE SURFACE CLAMP
Henry E. Caston, Akron, Ohio
Application December 22, 1949, Serial No. 134,393
3 Claims. (Cl. 144—290)



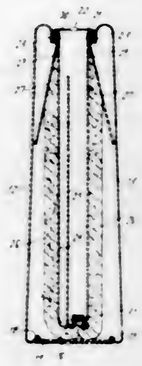
2. A surface clamp for use on a flat working surface, comprising a bracket having a flat bottomed base of broad lateral area extending in one direction, an upright extension therefrom provided with an offset portion at an inner side of the bracket adapted to overhang the working surface unobstructedly in the opposite direction and with respect to any other part of the bracket above said working surface, a pressure applying screw threaded through said offset portion to extend axially toward the plane of said base, anchor means for removably anchoring said bracket on the working surface to have work thereon positioned under said screw, means on said screw for turning the same against the positioned work, and a slab-like work supporting member providing said working surface and having an aperture extending downwardly from said working surface and terminating in a downwardly presented face portion of the work-supporting member, said bracket having a vertical wall portion at said inner side thereof forming an angle with the bottom of said base, a cavity of substantial depth being provided in said vertical wall portion at a point above the bottom of said base to define a web portion on the base substantially on a horizontal plane, said web portion having a recess vertically therethrough opening to the edge of the web at said inner side of the bracket, said anchor means including an elongated element received vertically through said aperture in said work-supporting member and through said recess in said web portion, said elongated element having a head at the lower end thereof for upward stop engagement of the same with said downwardly presented face portion of work-supporting member, means on the upper end of said elongated element releasably engaging the bracket within the outer boundaries of the bracket and outwardly unobstructedly with reference to the same, the last-named means thereby preventing downward movement of said elongated element relatively of said bracket.

2,661,784
METHOD AND APPARATUS FOR SHELLING NUTS
Fred O. McMillan, Corvallis, Oreg.
Application July 21, 1950, Serial No. 175,270
19 Claims. (Cl. 146—227)



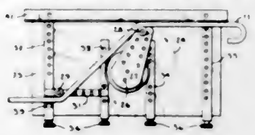
1. The method of cracking nuts which consists of shattering the shell of nuts solely by passing substantially diametrically through the same a substantially instantaneous high voltage electrical impulse discharge with a current value of the order of at least many hundreds of amperes.

2,661,785
INSULATED HANDBAG
Herbert Daust, St. Louis, Mo.
Application June 2, 1952, Serial No. 291,200
5 Claims. (Cl. 150—28)



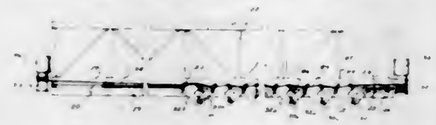
1. A handbag comprising an outer covering of pliable sheet material having a top opening and slide fastener means for closing the same, a lining assembly disposed within said outer cover, said lining assembly including reenforcing means formed of relatively stiff sheet material, said reenforcing means being secured to said covering at the margin of said opening, a sack-like liner formed of thin, flexible, waterproof material, adhesive means bonding the upper marginal portions of said liner to said reenforcing means, thereby effecting a stiffening of the throat portion of said liner, an intermediate insulating layer disposed adjacent the liner and considerably spaced from said outer covering, and means securing the upper edges of said insulating layer to said reenforcing means, the reenforcing means being normally angularly related to and projected for a distance outwardly of said insulating layer so as to tend to hold the outer covering in spaced relation to said insulating layer to provide an insulating air pocket.

2,661,786
BENDING MACHINE
Werner Peddinghaus and Emil Funke, Gevelsberg, Germany, assignors to Paul Ferd. Peddinghaus, Gevelsberg, Germany, a German firm
Application December 21, 1950, Serial No. 201,912
Claims priority, application Germany March 24, 1950
2 Claims. (Cl. 153—15)



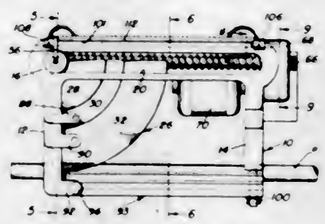
1. An apparatus for applying double bends to steel rods and comprising a horizontal table, a crank arm having one end rotatably mounted on the table for rotation about a vertical axis, a first bending roller mounted on the other end of the crank arm, a longitudinal horizontally extending abutment member mounted on said table, the distance between the crank arm axis of rotation and said first bending roller being greater than the distance between said axis and said abutment member, means for holding one end of a rod in a direction parallel to said abutment member, a second bending roller adjacent said holding means and located at the side thereof closest to said abutment member and to said crank arm axis of rotation, and means for mounting said holding means and said second bending roller on the table, the distance between said bending rollers when the first roller is adjacent said abutment member being greater than the distance between the crank arm axis of rotation and the first bending roller.

2,661,787
ROD BENDING MACHINE
Roy M. Eidal, Albuquerque, N. Mex.
Application April 3, 1952, Serial No. 280,258
10 Claims. (Cl. 153—20)



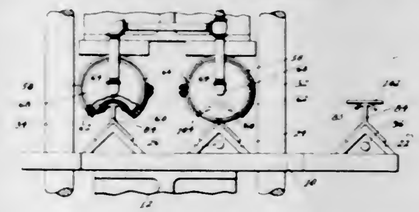
1. In a rod bending machine having a frame, a pair of guide bars forming a longitudinal guide slot on said frame, a series of links pivotally interconnected at their outer ends, means for pivotally mounting one end of said series of links on a pivot fixed to said frame, means for slidably mounting every other one of said interconnecting pivots for longitudinal movement in said slot, a pull out cable connected to the opposite end of said series of said links from said pivot fixed on said frame, and a draw cable fixed to said opposite end of said series of links, cable pulley means on every other one of said links operatively engaged by said cable to cause said links to fold together, power means on said frame to pull said draw cable, and work engaging anvils on said every other one of said links arranged to alternately engage each side of a workpiece to be bent in said machine so that said workpiece automatically causes progressive bends to be formed therein upon actuation of said draw-cable.

2,661,788
PIPE BENDING AND STRAIGHTENING MACHINE
Paul W. Esslinger, Nampa, Idaho, assignor to Automatic Benders, Inc., Nampa, Idaho, a corporation of Idaho
Application February 10, 1950, Serial No. 143,568
3 Claims. (Cl. 153—40)



1. A pipe bending and straightening machine comprising a frame including a pair of spaced side members interconnected by upper and lower wall members, said upper and lower wall members having elongated apertures extending between the side members, a vertically disposed trunnion positioned between said upper and lower wall members and having its opposite end portions received in the apertures thereof, a feed worm threadedly engaged through one of said side members and extending laterally therefrom toward the other side member, said trunnion being pivotally secured to said feed worm, said one side member having a pipe receiving groove therein, an elongated bar clampingly secured at one end to said one side member and terminating at its other end adjacent said other side member, said elongated bar having a longitudinal groove therein in register with the groove in said one side member whereby a pipe is clampingly secured therebetween, a segmental pipe form rotatably mounted at its apex to said trunnion and provided with a pipe receiving groove in its arcuate marginal edge, means on said marginal edge and extending radially outwardly of said groove for engaging a pipe to be bent, said means being in abutting relation with said other end of the elongated bar when the trunnion is positioned adjacent said other side member, whereby rotation of said segmental pipe form and frictional engagement of said means with the surface of the pipe to be bent is effected when the trunnion is moved toward said one side member.

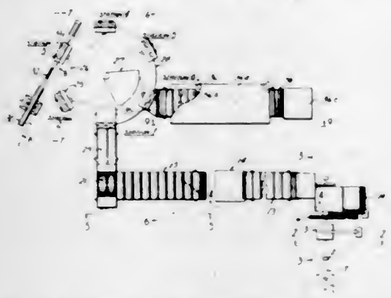
2,661,789
BONDING PRESS
Robert R. Keller, Manchester, N. H.
Application February 14, 1951, Serial No. 210,892
8 Claims. (Cl. 154—1)



1. In a press, a hollow cylindrical member having rigid side and end walls, an inflatable member having flexible walls enclosed and confined within said cylindrical member, said cylindrical member having an opening through its rigid side wall of width substantially less than the diameter of said cylindrical member for passage of work into its hollow and into engagement with said inflatable member therein, a work support opposite said opening in the walls of said cylindrical member, heating means associated with said work support for heating work mounted mounted on the work support, means for moving said cylindrical member and work support relatively toward and from each other for moving work on the work support into and out of the hollow of said cylindrical member, means responsive to a said movement of said cylindrical member and work support relatively toward each other for inflating said inflatable member while the heated work is within said hollow thereby to apply pressure to the work within the rigid confining walls of said cylindrical member by wrapping said inflatable member appreciably around the work in directions generally transversely of said cylindrical member, said opening in the walls of the cylindrical member having width only slightly more than the width of the work, whereby the work, when in said hollow, maintains the flexible walls of the said inflatable member against any appreciable inflation out-

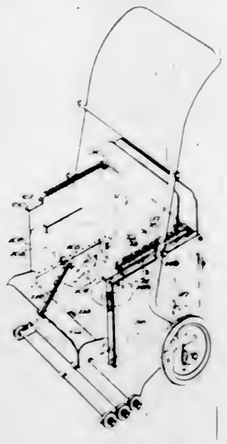
wardly through said opening, and means for deflating said inflatable member in response to relative movement of said cylindrical member and work support from each other.

2,661,790
MACHINE FOR MAKING TUBULAR CONTAINERS
Charles E. Slaughter, New Canaan, Conn., assignor to Extruded Plastics, Inc., a corporation of Connecticut
Application September 4, 1947, Serial No. 772,095
12 Claims. (Cl. 154—1)



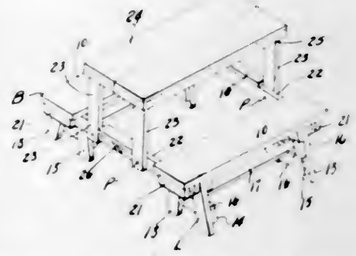
1. In a machine for adhesively securing caps to the ends of tubes having a horizontally mounted and intermittently rotatable turntable with tube holders perpendicularly mounted thereon for the reception of said tubes being fed thereto, said turntable adapted to be intermittently rotated by a suitable mechanism; in combination with means for fixing the position of the bottom of said tubes in respect to the bottom of said tube holders, and means including a trigger mechanism actuated by a stationary cam plate for holding and releasing said tubes from said holders.

2,661,791
CONVERTIBLE APPARATUS FOR USE IN CARE OF INFANTS AND FOR OTHER PURPOSES
Roger Laufer, Louisville, Ky
Application July 29, 1947, Serial No. 764,300
15 Claims. (Cl. 155—14)



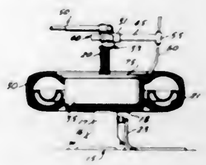
13. In an apparatus of the character described, the combination of a frame having a base portion and a handle portion, pairs of front wheels mounted at the forward extremity of said base portion, single large rear wheels mounted on said base portion, a pair of aligned pivotal supports mounted on opposed sides of said handle portion, a body portion including a seat section having side frames and a bottom panel to constitute a seat, members mounted on said side frames adjacent the top of said body portion and including sockets cooperating with said pivotal supports to provide an adjustable pivotal suspension for said body portion, an extension section including side frames and a bottom panel, the side frames of said body portion and said extension section having cooperating ribs and grooves for slidably supporting said extension section for movement outwardly with respect to said seat section to different degrees of extension, and a removable partition between said seat and extension sections and provided with means for securing the same in said body portion or for engagement with said first named members to provide a shade over said body portion.

2,661,792
KNOCKDOWN PICNIC TABLE AND BENCH ASSEMBLY
John P. Lysaght, Milwaukee, Wis.
Application October 17, 1952, Serial No. 315,267
5 Claims. (Cl. 155—124)



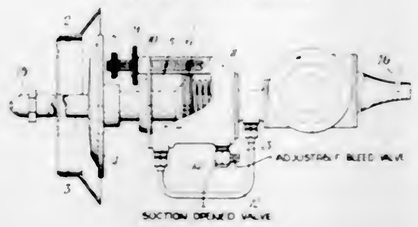
1. In a knockdown table and bench assembly, a pair of spaced-apart, parallelly disposed benches having seats and hingedly connected leg members, means on the ends of said benches for removably receiving and supporting a pair of bench-connecting support members, uprights pivotally connected to said support members, a table top having depending rims on the upper ends of said uprights, and means for preventing said uprights from swinging inwardly past vertical position.

2,661,793
CIRCUMFERENTIALLY TRAVELING TYPE TIRE MOUNTING AND DEMOUNTING APPARATUS
Hugh Monroe Rockwell, Freeport, N. Y.
Application July 2, 1947, Serial No. 758,598
13 Claims. (Cl. 157—1.24)



1. In a tire mounting and demounting machine of the type in which relative revolution is effected between a tire and a tool engaged therewith to loosen the tire from its carrier, and including a tire supporting stand and an arbor extending axially of a tire thereon, a rotatable bracket having a journal bearing secured to said arbor and having a substantially horizontal aperture extending therethrough transversely of the tire, the aperture being spaced radially off center from the journal bearing axis, and an elongated tool support slidable through the aperture at one side of the journal bearing and extending transversely of the tire.

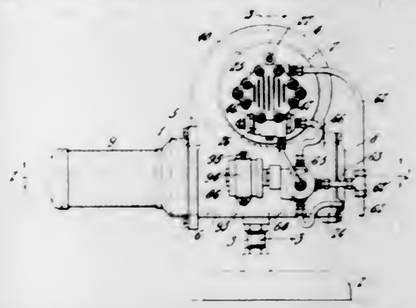
2,661,794
OIL BURNER HAVING PNEUMATIC SECONDARY AIR CONTROL
Christopher Shorrock, Preston, England
Application February 10, 1950, Serial No. 143,384
Claims priority, application Great Britain February 18, 1949
4 Claims. (Cl. 158—28)



1. In an oil fuel burning heater, a nozzle tube adapted to lead to a nozzle of a burner, a compressor at an end of the nozzle tube for supplying primary air and fuel to the nozzle of the burner, an outer tube for secondary air surrounding the nozzle tube and with its outer end spaced from the compressor and adapted to receive secondary air from a source independent of the compressor, a cylinder closed at both ends and located between the outer tube and the compressor and surrounding the nozzle tube, a piston in the cylinder, an extension sleeve on the piston guided on the nozzle tube for axial sliding movement and extending through the closed end of the cylinder towards the outer end of the outer tube, a damper valve on the inner end of the sleeve for controlling air inlet to the outer or secondary air tube, a by-pass between the compressor and the cylinder for admitting primary air from the compressor to the cylinder's inner end to cause opening movement of the damper valve, and spring means adapted to bias the piston to a position in which the damper valve is closed.

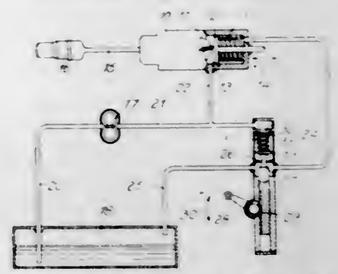
2,661,795
TIME-CONTROLLED FUEL PUMP UNLOADING MEANS FOR PRESSURE-ATOMIZING OIL BURNERS
Joseph A. Logan, Hadley, and Eugene V. Lavallee, South Hadley Falls, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application May 21, 1952, Serial No. 289,058
1 Claim. (Cl. 158—28)

In an oil burner having a pressure-atomizing nozzle, an oil-supply pump, an air-supply fan, an electric motor for driving the pump and fan, and a pressure-regulating valve connected to the outlet of the pump and closing the same until the pump has built up a predetermined high atomizing pressure; a second valve comprising a casing having first and second pairs of ports and an element movable in said casing between first and second positions and having first and second valve passages to respectively control said first and second pairs of ports, a conduit connecting the first-named valve to one port of the first pair, a conduit connecting the other port of the first pair to said nozzle, conduits connecting the ports of the second pair one to the inlet and one to the outlet side of said pump, said element when in its first position having its second valve passage positioned to interconnect the second pair of ports and its first valve passage positioned to prevent communication between the first pair of ports and when in its second position having its first valve passage positioned to connect the first pair of ports and its second valve passage



positioned to prevent communication between the second pair of ports, biasing means for holding the valve element in its first position, electrical means for moving the valve element against its biasing means from its first to its second position, an electrical circuit for said motor, an electrical circuit for said electrical means connected to the first-named circuit, and a switch for controlling the second circuit, said switch being open when the motor is deenergized, and actuating means for said switch initiated simultaneously with the energization of said motor and operable in a predetermined time interval to close said switch and cause energization of said electrical means.

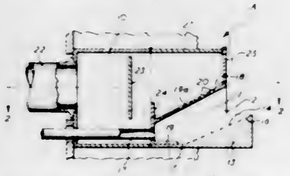
2,661,796
HYDRAULIC CONTROL MEANS FOR ENGINE FUEL SYSTEMS
Kenneth Roy Davies, Radbourne, near Derby, and Karl Herbstritt, Littleover, Derby, England, assignors to Rolls-Royce Limited, Derby, England, a British company
Application May 11, 1948, Serial No. 26,425
Claims priority, application Great Britain May 12, 1947
9 Claims. (Cl. 158—36.4)



1. Control means for a gas turbine engine fuel system, which control means is of the class comprising a constant displacement hydraulic pump adapted to be driven at a speed proportional to the engine speed, a conduit connected with the

delivery of said pump, flow-restricting means in said conduit, and a pressure-responsive device connected with said conduit to respond to the difference in fluid pressures in said conduit on each side of said flow-restricting means and means actuated by the pressure-responsive device in its response to said difference in fluid pressures to adjust the fuel delivery to the engine, characterised by the said flow-restricting means for determining the value of said difference in pressures to which the pressure-responsive device responds, comprising a valve in said conduit, resilient means arranged to load said valve, a variable-area orifice in said conduit hydraulically in series with said valve, an engine speed selecting device arranged for adjustment to vary the effective area of the variable-area orifice and means arranged to vary the loading afforded by said resilient means on said valve in accordance with the adjustment of said engine-speed-selecting device.

2,661,797
OIL BURNER EVAPORATOR
Gordon C. Kemp, Guelph, Ontario, Canada
Application November 10, 1951, Serial No. 255,780
11 Claims. (Cl. 158—92)



10. In a device for burning oil, an oil vaporizing and mixing chamber having imperforate side walls and a mouth at its front end through which vapors and gases can move, said vaporizing and mixing chamber having a base over which gases and vapors proceed as they travel towards said mouth that slopes rearwardly and downwardly from said mouth, means for directing primary and secondary air to strike against said base including means for forming a plurality of primary air jets in said chamber overlying said base, means for forming a plurality of secondary air jets in said chamber overlying said base, said secondary air jets being closer to the mouth of said vaporizing and mixing chamber than said primary air jets, said means forming said primary and said secondary air jets being spaced apart over a combined area that overlies substantially all of said base within said vaporizing and mixing chamber and pointed to direct air therefrom downwardly onto said base substantially at right angles thereto, means for admitting fuel oil to the rear of said base, and said means forming said primary and said secondary air jets being the sole means for admitting air to said vaporizing and mixing chamber.

2,661,798
FLARE STACK, PILOT BURNER, AND PILOT IGNITER
Oliver L. Clevenger and William A. McElhannon, Baytown, and William W. Jones, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application November 12, 1948, Serial No. 59,662
2 Claims. (Cl. 158—115)

1. A device adapted for the combustion of combustible mixtures which comprises a vertical elongated conduit defining a passageway in fluid communication at a lower end with a source of combustible fluid and open at an upper end, an elongated vertical burner attached to said elongated conduit adjacent an upper end thereof provided with an interiorly arranged vertical jet and defining a plurality of ports below the jet communicating an interior of the burner with an outer surface thereof, a conduit defining a passageway connected to and communicating said jet with a source of fuel, a vertical ignition means including a resistance element attached to said burner and to said elongated conduit and arranged adjacent said burner and said elongated conduit, said ignition means being provided with a vertical jet and defining a plurality of ports below the jet communicating an interior of the ignition means



with an outer surface thereof and being provided with electrical conduction means connecting said resistance element to a source of electrical energy, said burner and said ignition means defining open passageways adjacent the open upper end of the elongated conduit parallel to each other and to said elongated conduit, and a horizontal baffle member having a plane horizontal surface spaced above and facing the burner and the ignition means, said baffle member extending completely over the burner and ignition means and attached thereto and being spaced horizontally from the open end of said elongated conduit whereby said baffle member covers the open end of said burner and ignition means but not the open end of said elongated conduit.

2,661,799
OVERHEAD DOOR STRUCTURE
Cecil R. Wolf, Rock Falls, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois
Application August 10, 1950, Serial No. 178,673
12 Claims. (Cl. 160—191)



1. The combination comprising a door shiftable between opened and closed positions, a track for guiding said door between said positions, said track having means providing an elongated braking surface, means providing a braking surface carried by said door, the braking surface carried by said door being fixed against movement substantially parallel to the length of said door, and means for relatively shifting the means providing said braking surfaces transversely of said track for bringing said braking surfaces into contact and thereafter applying increasing force urging said surfaces together as said door approaches one of said positions to arrest movement of said door smoothly.

2,661,800
ANIMAL FEEDING DEVICE
Frederick B. Reichenbach, Des Moines, Iowa
Application January 30, 1952, Serial No. 269,027
12 Claims. (Cl. 161—10)



1. In an animal feeding device, a housing member provided with an opening in one side, a removable receptacle within said housing member, a pair of vertically spaced apart guide members in said housing member, a bar member mounted in said guide members and vertically movable therein, a rotatable shaft on said housing member, means on said housing operatively connected to said shaft for rotating the same first in one direction and then in another, said shaft operatively connected to said bar member whereby rotation of said shaft will move said bar member in two directions respectively, a cup member detachably secured to said bar member and movable into and out of said receptacle by movement of said bar member, and said cup member when out of said receptacle adapted to register with said opening whereby access to said cup member is available from outside of said housing member.

2,661,801
PAPER CUTTING MEANS WITH A SUCTION APPLYING DEVICE
Lawrence Littman, Ramsey, N. J., assignor, by mesne assignments, to Advance Holding Corporation, Upper Montclair, N. J., a corporation of New Jersey
Application October 19, 1950, Serial No. 191,029
11 Claims. (Cl. 164—61)



1. A device of the class described for cutting a length of paper during edgewise movement thereof comprising the combination of means for cutting the paper during said movement, means at one side of the path of movement of the paper for carrying and actuating said cutting means, and means at the same side of the path as said carrying and actuating means for applying suction to the paper at a location spaced in advance of said cutting means thereby to pull the paper toward said carrying and actuating means and the cutting means.

2,661,802
COMBINED SHUT-IN AND BACK CIRCULATION TOOL
Mordica O. Johnston, Glendale, Calif., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex., a corporation of Delaware
Application March 9, 1950, Serial No. 148,716
4 Claims. (Cl. 166—1)

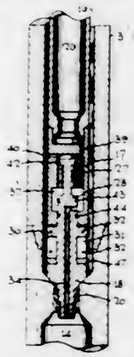


2. An oil well tool of the class described, comprising a tubular housing, a traveling nut slidably but non-rotatably received by the housing, a tubular mandrel telescopically received within the tubular housing and having means at its upper end for connection to a supporting string of pipe and having its lower end threadedly engaging said nut, a tubular section carried by the nut, extending downwardly therefrom, and having its lower end closed to the upward flow of fluid thereinto, packing means within the housing below the nut and through which the tubular section extends, said housing having ports in the side wall thereof disposed above the packing means, said tubular section having ports formed in the side wall thereof initially disposed above the packing means in communication with the ports in the housing and adapted to be placed, upon rotation of the mandrel, within the confines of the packing means, or below the packing means in communication with the interior of the housing.

2,661,803
FORMATION TESTER SAMPLE CHAMBER ASSEMBLY
George H. Ramsey, Ardmore, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 25, 1952, Serial No. 311,467
4 Claims. (Cl. 166—1)

1. Improved apparatus for collecting a sample of fluid from the lower end of a drill pipe comprising, in combination, a body adapted to be lowered into said drill pipe, a fluid retaining chamber in said body, a valve chamber in said body, a valve element slidably arranged in said valve chamber, said valve element comprising an elongated piston extending below said body and having a portion adapted for seating on a con-

striction in said drill pipe, said valve chamber having a first port at its upper end above said valve element and a second port intermediate its ends, both of said ports terminating exterior of said body, a first conduit in said body connected to said fluid retaining chamber and terminating within said valve chamber, a central conduit within said valve element terminating at one end below said seating portion and at the other end exterior of said valve element at a point inter-



mediate its ends, said valve element assuming within said valve chamber a first position wherein said central conduit is placed in fluid communication with said second port of said valve chamber, and movable to a second position wherein said central conduit is placed in communication with said first conduit, said first port in said valve chamber serving to transmit fluid pressure in said drill pipe to the top of said piston, whereby fluid pressure tending to force said piston upward is counterbalanced.

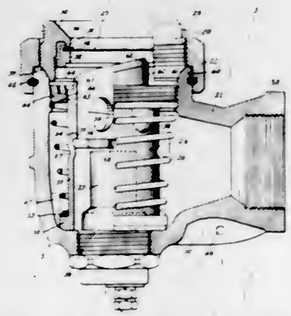
2,661,804

FIRE EXTINGUISHER DISCHARGE HEAD

Walter M. Haessler, Chatham, N. J., assignor to C-O-Two Fire Equipment Company, Newark, N. J.

Application December 26, 1951, Serial No. 263,433

3 Claims. (Cl. 169—11)



1. A discharge head for a container storing a fluid under pressure and releasable upon the rupture of a sealing disc, the discharge head comprising a sealing neck portion and a separable body member, the sealing neck portion adapted to be secured in the neck of the container and having a fluid passage therethrough, a seat about the passage, a sealing disc assembly threadedly engaged in the neck portion contacting the seat and closing the fluid passage, the exterior of the neck portion threaded and having a beveled lower edge, a body member having a beveled upper edge engaging the beveled lower edge of the neck portion, a swivel nut at the upper end of the body member engaging the threaded exterior surface of the neck portion, an explosive cartridge adapted to discharge within the body member, a reciprocable tubular piston cutter member having one end with a sharpened edge to facilitate the rupture of the disc, a partition across the tubular member intermediate the ends thereof forming a piston head, a plurality of openings through the wall of the piston cutter member located between the sharpened edge and the partition, a shoulder formed in the inner wall of the piston cutter member to receive the partition in abutting relationship, the inner wall of the piston cutter member deformed holding the partition in position, a shoulder formed about the sharpened edge of the piston cutter member adapted to contact the sealing disc assembly to limit the travel of the piston cutter member, an annular shoulder about the end of the piston cutter member away from the sharpened edge, a spring yieldingly holding the cutter member away from the sealing disc, the body member spaced from the cutter member to provide an outlet for fluid released from the container, a plurality of guiding ribs inside the body member for the depending skirt, and a ring guiding member positioned at the upper end of the body member adjacent the neck portion, the spring abutting against the ring member and the annular shoulder of the depending skirt.

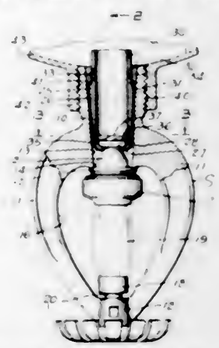
2,661,805

FIRE EXTINGUISHER SPRINKLER HEAD

Peter Lim, Los Angeles, Calif.

Application March 5, 1951, Serial No. 213,858

5 Claims. (Cl. 169—41)



1. A fire extinguisher sprinkler head comprising: a support having a longitudinally tapered bore therethrough, the smaller end of which is bounded by an annular valve seat and forms a bottom outlet for a container of fire extinguishant under pressure; a valve for said outlet; a thermo-responsive element normally maintaining said valve in engagement with said seat to close said outlet, and releasing said valve to open said outlet when said element is subjected to a predetermined maximum temperature; a longitudinally tapered nozzle having a spray tip at its smaller end and being movable longitudinally in said bore; and means confining the nozzle against displacement from the larger end of said bore and co-acting with said valve when closed, to maintain the nozzle in a retracted position in the bore for movement of the nozzle by pressure of the extinguishant when said valve is released, to a projected position wherein the nozzle is sealed fluid-tight against the wall of the bore and the tip of the nozzle is exposed below said outlet so as to be free to spray extinguishant throughout an extremely wide area; said taper of said nozzle being in close proximity to the bore wall in the retracted position of the nozzle, so as to guide the nozzle substantially co-axially of the bore from retracted to projected position in order to prevent tilting of the nozzle against the bore wall in the projected position of the nozzle.

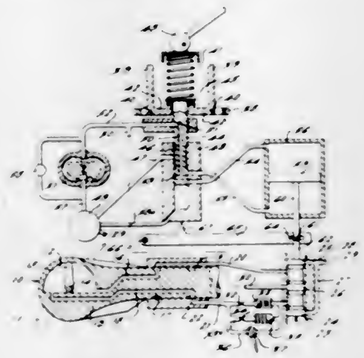
2,661,806

CONTROL FOR PROPELLER GOVERNOR HAVING DELAYED PROPELLER SPEED REGULATION

Paul T. Nims and Brent C. Jacob, Jr., Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application February 27, 1948, Serial No. 11,498

7 Claims. (Cl. 170—160.2)



1. In combination, means adjustable to various positions representing various desired speeds of a propeller, means shiftable in position in response to changes in speed of the propeller, yieldable means engaged by the speed-representing means and the speed-responsive means mutually and forming a connection therebetween so as to make the setting of the speed-representing means predetermine the propeller speed at which the speed-responsive means will occupy a given position, a member adjustable to different positions to adjust the propeller pitch, means forming passages alternately effective to supply pressure fluid from a source to one side or the other of the member and to connect the opposite side to drain to shift the member in one direction or the other, said passages including a valve therein shiftable to extreme positions in which one side or the other of the member is connected to fluid under pressure and the other on the one side of the member is connected to drain in the above described manner or to an intermediate position in which fluid is locked against both sides of the member, a piston connected for movement with the valve, conduit means supplying fluid from a source under pressure to one side or the other of the piston and connecting the opposite side to drain to shift the piston and the valve in one direction or the other and including therein a pair of cooperating valve parts relatively positionable so as to connect the piston to fluid under pressure and drain as aforesaid for shifting the same in one direction or the other or to block the piston to fluid under pressure and drain for holding the piston against movement, means connecting one valve part with the speed-responsive means to make the said one valve part assume a position dependent upon the difference between the actual propeller speed and the propeller speed for which the speed-representing means is set, means connecting the other valve part for movement with the piston for causing a shift of the piston due to a shift of the said one valve part to produce a shift of the said other valve part to a position relative to the said one valve part in which the piston is held against movement by being blocked to fluid under pressure and to drain, and means forming a restriction in one of said passages for retarding the flow of fluid therein thereby limiting the rate of change of propeller pitch.

2,661,807

HYDRAULIC PITCH CONTROL DEVICE FOR PROPELLERS

Sterling A. Fielding, Portsmouth, Va.

Application April 28, 1949, Serial No. 90,213

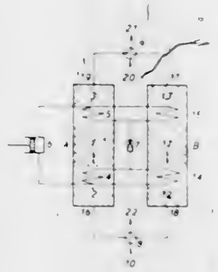
5 Claims. (Cl. 170—160.32)

(Granted under Title 35, U. S. Code (1952), sec. 266)



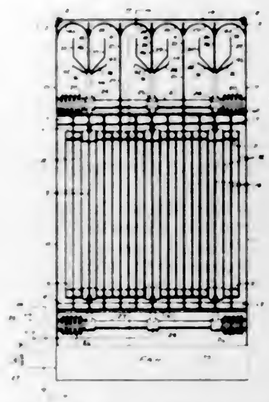
1. In a hydraulic operating mechanism comprising in combination, a control motor, a threaded shaft driven thereby, a nut on said threaded shaft adapted to travel longitudinally thereof upon rotation thereof, a variable stroke fluid pump, a control system including means integral with said pump for varying the quantity and direction of fluid pumped thereby, a lever mounted for pivotable movement adjacent said pump, pivotable connecting means connected at one end to said lever and at the other end to said means integral with said pump an injector head having a plurality of oil-receiving chambers, flexible conduits connecting said variable stroke pump with said oil-receiving chambers, means respectively connecting opposite ends of said lever to said nut and said injector head, a hollow rotating propulsion shaft, a cylinder incorporated in said propulsion shaft, a piston slidable in said cylinder, a propeller having adjustable blades mounted on said propulsion shaft, means actuated by said piston and extending through said propulsion shaft for adjusting said blades, concentric tubes extending into said injector head, anti-friction means connecting one of said tubes with said injector head for reciprocating movement therewith, each of said tubes respectively extending into said oil-receiving chambers and through said propulsion shaft, means securing said tubes to said piston, said piston having passages respectively placing said tubes in communication with opposite ends of said cylinder.

2,661,808
PROCESS FOR THE PURIFICATION AND SEPARATION OF GAS MIXTURES
Heinrich Kahle, Pullach, near Munich, Germany, assignor to Gesellschaft für Linde's Eismaschinen A.-G., Hoellriegelskreuth, near Munich, Germany
Application October 10, 1950, Serial No. 189,329
Claims priority, application Germany October 14, 1949
4 Claims. (Cl. 183—4.7)



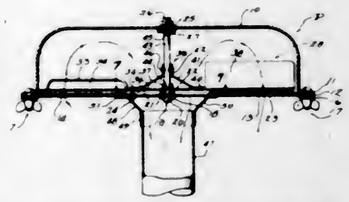
1. An adsorption apparatus comprising a pair of adsorbing means each containing an adsorbent material and adapted to have gases flow therethrough, each of said two adsorbing means having at one end thereof and in flow communication therewith a heating means, a first pair of heat accumulator means each in communication with a respective one of said heating means and for receiving, storing and transferring heat to and from gases flowing therethrough, a pair of cooling means each in communication with a respective one of the opposite ends of said adsorbing means, a second pair of heat accumulator means each in communication with a respective one of said cooling means, an inlet pipe for supplying to said apparatus a gaseous mixture containing components to be adsorbed therefrom, an outlet pipe for delivering from the apparatus said gaseous mixture after the components have been adsorbed therefrom, an inlet pipe for supplying adsorbent-regenerating gas to said apparatus, an outlet pipe for delivering from the apparatus said adsorbent-regenerating gas after the latter has performed its regenerative function, a first valve means selectively operable to connect to said gas mixture inlet pipe either of said heat accumulator means which are in communication with said cooling means and to connect the other of said last-recited heat accumulator means to said regenerating gas outlet pipe, and a second valve means selectively operable to connect to said regenerating gas inlet pipe either of said pair of heat accumulator means which are in communication with said heating means and to connect the other of said last-recited pair of heat accumulator means to said gas mixture outlet pipe, whereby one of said adsorbing means may alternatively adsorb condensible components from the gaseous mixture or be regenerated while the other adsorbing means alternatively is being regenerated or is adsorbing respectively, the temperature at each point in the flow path through each of said adsorbing means and heat accumulator means remaining approximately constant for both the adsorbing and regenerating phases.

2,661,809
ELECTROSTATIC PRECIPITATOR
George W. Hewitt and John S. Lagarias, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 22, 1950, Serial No. 197,054
7 Claims. (Cl. 183—7)



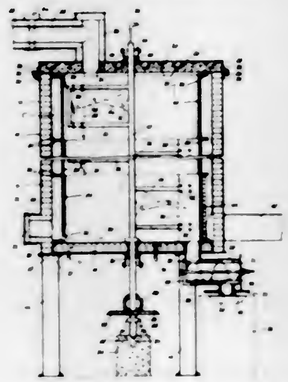
1. An electrostatic precipitator having an ionizer zone and a collector zone, comprising end plates common to both of said zones, collector plates in said collector zone, between and supported from said end plates and electrically connected thereto, one of said collector plates having a portion extending into said ionizer zone, an ionizer plate supported in said ionizer zone midway between one of said end plates and said plate portion, and having an inner end terminating short of said collector zone, an ionizer wire support in alignment with said ionizer plate between said inner end and said collector zone, resilient ionizer wire supporting arms supported from the ends of said support and extending therefrom midway between said one end plate and said ionizer plate, resilient ionizer wire supporting arms supported from said ends of said support and extending therefrom midway between said ionizer plate and said plate portion, and ionizer wires supported from said arms.

2,661,810
SELF-CLEANING AIR PRECLEANER
Sherman C. Heth, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application July 15, 1949, Serial No. 104,969
1 Claim. (Cl. 183—52)



An air pre-cleaner for connection to an air inlet conduit, in combination, a casing supported on said conduit and having a downwardly directed annular opening surrounding said conduit, a perforate member disposed in said opening, a rotor pivotally supported in said casing intimately adjacent and parallel to said perforate member, said rotor comprising a plurality of opposed discrete segments and means defining vanes associated with said rotor to impinge air passing through said perforate member causing said rotor to rotate, said segments substantially interrupting flow of air through said screen at successive points of rotation of said rotor.

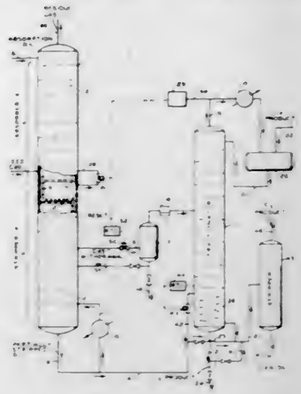
2,661,811
APPARATUS FOR CONTINUOUSLY FILTERING SOLIDS FROM GASES
Karl Kautz, Massillon, Ohio
Application December 29, 1951, Serial No. 264,065
8 Claims. (Cl. 183—60)



1. Filtering apparatus including a tower having refractory walls and a bottom wall, a cylindrical filter spaced inwardly of said refractory walls, means for introducing a hot mixture of gases and solids into the interior of the filter, means for removing hot filtered gases from said tower, a rotatable shaft extending axially through said filter, a plurality of vertical radially-adjustable scrapers staggered on said shaft for scraping hot particles from the inner surface of said filter, and said filter having a cylindrical core of heat-resistant mineral matter enclosed between inner and outer metal cylinders.

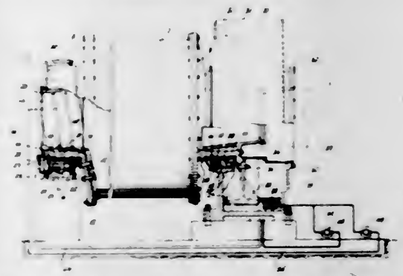
2,661,812
PROCESS FOR SEPARATING A GASEOUS MIXTURE
Forrest E. Gilmore, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 2, 1951, Serial No. 203,898
8 Claims. (Cl. 183—115)

8. A process for fractionating a vaporizable mixture consisting essentially of chemically related organic compounds A, B, and C which decrease in order named in their readiness for being reversibly absorbed in a common liquid absorption medium therefor, which comprises: passing said mixture in the vapor state in counterflowing contact with said liquid absorption medium in an absorption zone to absorb thereby a major proportion of said A and B compounds and a minor proportion of said C compound; stripping the resulting fat absorption medium in a stripping zone to an extent sufficient to strip B and C compounds therefrom while permitting a portion of A compound to remain absorbed therein; removing a desorbed gaseous fraction comprising A and B from said stripping zone at a point intermediate its ends; fractionally distilling said removed fraction to recover B compound as an overhead fraction; and passing a gaseous fraction comprising B and C compounds from an



upper portion of said stripping zone to a lower portion of said absorption zone at a rate sufficient to maintain said B compound overhead fraction free from said C compound.

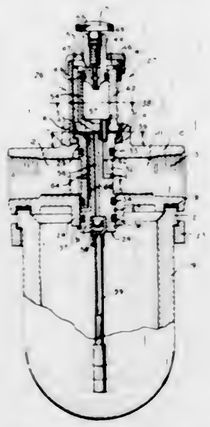
2,661,813
LUBRICATING MEANS FOR TUBE MILLS
Joseph E. Kennedy, New York, N. Y.
Application June 10, 1948, Serial No. 32,212
2 Claims. (Cl. 184—6)



2. In a support and lubricating means for tube mills of the type including a drum having hollow axial trunnions at its opposite ends for rotatably supporting the drum, and a support for each drum trunnion arranged with a semi-circular bearing rotatably engaged by said drum trunnion and a well to receive excess lubricant from the bearing, the improvement in which each of said drum trunnions includes an annular ridge intermediate its ends and in which the semi-circular bearing supporting said trunnion is provided with a recess corresponding to and receiving the annular ridge of the trunnion, said ridge and recess having side walls extending substantially normal to the axis of the trunnion, each of said semi-circular bearings having a lubricant receiving groove in its upper surface midway of the ends of the bearing and of the sides of the recess therein, said groove extending circumferentially of the center of the semi-circular bearing with the ends of the groove spaced a greater distance from the respective terminal sides of the semi-circular bearing than from the transverse center of said bearing, the well for receiving excess lubricant from one of said semi-circular bearings being at a higher level than the well for receiving excess lubricant for the other bearing.

means for conducting lubricant from the well at the higher level into the well at the lower level, a conduit in each of said semi-circular bearings having one end connected into the groove in said bearing, and means connected in communication with the opposite end of the conduit for each groove and with the lubricant well at the lower level for withdrawing lubricant therefrom and supplying lubricant under pressure through the respective conduits to the grooves in the respective semi-circular bearings to fill the grooves with lubricant and lift and support the drum trunnions by films of lubricant flowing laterally from the grooves in opposite directions over the upper surfaces of the semi-circular bearings.

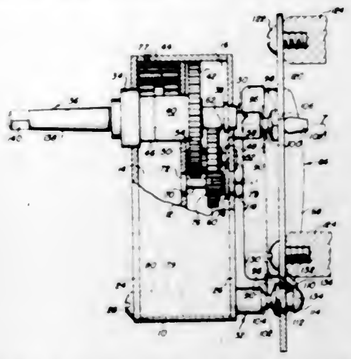
2,661,814
AIR LINE LUBRICATOR
Carl A. Norgren, Westwood, Kenneth C. Mosier, Denver, R. Donald Bowdey, Lakewood, and Norman A. Metzger, Denver, Colo., assignors to C. A. Norgren Co., Denver, Colo., a corporation of Colorado
Application July 14, 1949, Serial No. 104,626
10 Claims. (Cl. 184—55)



1. An air line lubricator comprising a body having an air conduit formed therein for the passage of air under pressure, a lubricant reservoir sealed to the body, a metering assembly rotatably mounted in the body including a blade portion disposed in the air conduit, said blade portion having in cross section a major dimension substantially greater than a minor dimension measured normal to the major dimension, an oil conduit for conveying oil from the reservoir to an oil discharge opening in the downstream edge of the blade portion and a valve for regulating the flow of oil through the said oil conduit.

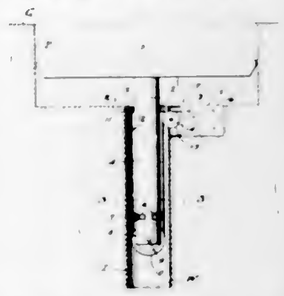
2,661,815
CHART DRIVE MECHANISM
John B. McGay and George E. Nicholson, Tulsa, Okla., assignors to Rockwell Register Corporation, a corporation of New York
Application April 22, 1949, Serial No. 89,037
8 Claims. (Cl. 185—38)

1. Chart operating mechanism comprising a spring and a casing therefor, a chart hub driven by said spring and projecting from the front of said casing, a plurality of spaced posts projecting from the rear of said casing, a separate escapement unit having means adapted to coact with the respective posts to releasably mount the escapement unit in assembled relation upon the casing, releasable means coupling said escapement unit with the spring to control the rate of rotation of the chart hub, a mounting plate



adapted to be secured to an instrument panel, and means on said plate adapted to coact with additional means on said posts to detachably mount said escapement unit on said plate.

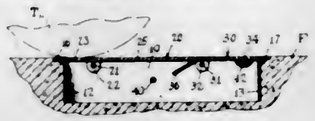
2,661,816
PIT-TYPE ELECTRIC ELEVATOR
Harold J. Hulsart, Tuscaloosa, Ala.
Application August 21, 1950, Serial No. 180,627
1 Claim. (Cl. 187—8.41)



A pit-type elevator construction comprising an outer casing adapted to be sunk into a well extending downwardly below the bottom surface of a ground pit, a plunger disposed within said casing and vertically movable up and down therewithin, guide rollers carried by the plunger for maintaining the same in proper spaced relation to said casing, a platform carried by the upper end of said plunger and rigidly secured thereto and normally disposed within said pit below the ground level, a pulley carried by the lower end of said plunger and having its periphery extending below said plunger and beyond the opposite sides thereof, a guide sheave mounted adjacent the upper end of said casing and having its periphery projecting into said casing, a flexible cable secured to said sheave and extending around the pulley and attached to said casing adjacent the upper end thereof, means for rotating said sheave to raise and lower said plunger and platform, the peripheral edges of said pulley and sheave being disposed in vertical alignment, spaced guides carried by said casing and engaging said plunger but permitting partial rotation of said platform when it is moved above ground level, the plunger and casing being so spaced with respect to each other and with respect to the rollers and guides as to permit said partial

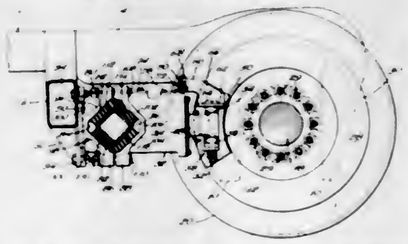
rotation of said platform and the proper realignment of parts as the platform is returned to normal position by rotation of said sheave.

2,661,817
WHEEL STOPPING DEVICE
James H. Mullins, Westport, Conn., assignor of one-third to Stephen A. Budner and one-third to Richard Hauser, both of Westport, Conn.
Application February 24, 1951, Serial No. 212,538
6 Claims. (Cl. 188—32)



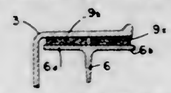
1. An automobile stopping device for use in a recess in a floor to be engaged by a wheel of the automobile comprising an operating member adapted to be engaged by the automobile wheel; means to mount said operating member flush with the floor, said operating member having a force-transmitting arm capable of movement into the recess; a stopping member; and pivot means to mount said stopping member flush with the floor, said stopping member having a force-receiving arm extending under the force transmitting arm and into the path of movement of said force-transmitting arm, and a flush stopping arm extending on the other side of said pivot means, whereby movement of said force-transmitting arm into the recess under the weight of the automobile urges said force-receiving arm into the recess and said stopping arm out of said recess to protrude above the floor to form a stop for the automobile wheel.

2,661,818
ROTOR BRAKE
Carl E. Tack, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application July 13, 1949, Serial No. 104,453
6 Claims. (Cl. 188—59)



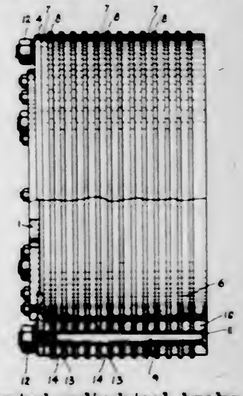
5. In a brake arrangement for a railway car truck, a wheel and axle assembly including a friction element rotatable therewith, a truck frame resiliently supported therefrom and including a transverse member disposed at one side of said assembly, a support structure disposed between said member and said assembly and comprising a T-shaped housing having a body portion aligned with said element longitudinally of said truck frame, the horizontal bar of said T comprising coaxial extensions intermediate the ends of the body portion and projecting transversely of said truck frame, the axis of said extensions being disposed in horizontal alignment with the axis of said assembly, said extensions being quadrilateral in cross section, support means on said member having quadrilateral openings receiving respective extensions, the sides of said openings paralleling the sides of the respective extensions, resilient pads compressed between the sides of respective extensions and openings, brake means carried by said body portion including friction means cooperating with opposite sides of said element, and a torque arm rigidly connected to one of said extensions and yieldingly connected to said assembly.

2,661,819
MOTOR VEHICLE BRAKING APPARATUS
Oscar W. Strohm, Sharpsburg, Pa., assignor to Multi-Ring Brake Drum Corporation, Allison Park, Pa., a corporation of Pennsylvania
Application June 1, 1951, Serial No. 229,396
2 Claims. (Cl. 188—78)



1. In braking apparatus, the combination comprising a cylindrical drum supported only at one axial end thereof and unsupported at its other axial end, said drum having an internal cylindrical braking surface, shoe means including a frictional lining thereon for engagement with said drum surface and formed of axially spaced portions respectively having different coefficients of friction, the portion engageable with the supported end of said drum surface having a lower coefficient of friction than the portion engageable with the unsuppported end thereof, the coefficient of friction of said lining portions being effective to compensate for belling of the drum due to pressure of the lining thereagainst so as to obtain a uniform braking effect over the axial length of the drums engaged by said lining, and means for moving said shoe means to engage and disengage its lining with said drum surface.

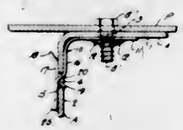
2,661,820
LAMINATED BRAKE DRUM
Arthur C. De Yo, Shaler Township, Allegheny County, Pa., assignor, by direct and mesne assignments, to Multi Ring Brake Drum Corporation, Allison Park, Pa., a corporation of Pennsylvania
Application November 29, 1948, Serial No. 62,534
5 Claims. (Cl. 188—218)



1. A laminated cylindrical brake drum comprising a plurality of flat annular metal rings re-

spectively having spaced annular side surfaces and inner and outer cylindrical surfaces positioned between said side surfaces, said rings being stacked concentrically with adjacent side surfaces of adjacent rings abutting and said inner cylindrical surfaces cooperating to form a smooth and continuous laminated cylindrical braking surface, said outer cylindrical surfaces of said rings being exposed and unobstructed so that heat generated at said inner cylindrical surfaces may be transmitted through said rings and dissipated directly to the atmosphere.

2,661,821
FASTENER
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application December 3, 1948, Serial No. 63,387
4 Claims. (Cl. 189—36)



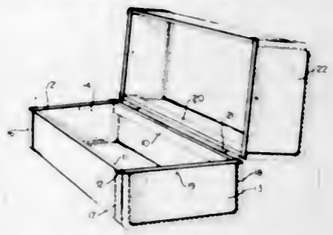
1. A fastener adapted to be attached to a part provided with a bolt passage and an attaching opening, said fastener comprising a piece of sheet metal providing a portion carrying bolt or screw engaging means and an attaching portion adapted to pass through said attaching opening from the outer surface of said part and engage the inner surface of said part adjacent said opening with said bolt or screw engaging means aligned with said bolt passage in said part, a cooperating resilient arm stamped from said attaching portion between side sections thereof and extending in resilient relation to said attaching portion in position for engaging the outer surface of said part adjacent said opening in cooperation with said attaching portion to retain the fastener in attached position, shoulders on said side sections of said attaching portion engageable with an edge portion of said opening, and a lug provided on said resilient arm extending inwardly from said arm and adapted to engage an opposite edge portion of said opening in cooperation with said shoulders on said side sections to lock the fastener in such attached position.

2,661,822
DOOR CORNER
Robert S. Wisok, Detroit, Mich., assignor to Wisco, Inc., Detroit, Mich., a corporation of Michigan
Application June 10, 1950, Serial No. 167,413
5 Claims. (Cl. 189—36)



1. A corner construction for fabricated metal structures comprising right-angularly disposed hollow rails having mitered ends abutting together, each rail being provided with generally right-angularly disposed diametrically opposed internal corners, and a pair of relatively thin L-shaped members of resilient material connecting said rails and arranged in laterally spaced relation with the arm portions thereof extending into the hollow interiors of the rails, each of said arm portions being arched transversely and away from the adjacent side of the rail in which it is disposed and the longitudinal edges of each arm portion seating in adjacent internal corners of the rails, and holding means engaging the arched portions of the arms flexing the same toward the adjacent sides of the rails and thereby compressing said arm portions to jam the edges thereof outwardly into pressed frictional engagement with their respective corner surfaces, whereby the holding effect of said holding means is supplemented by stressing of said resilient arm portions.

2,661,823
STITCHED CASE
Eric M. Goetz, Manchester, N. H.
Application April 23, 1952, Serial No. 283,859
4 Claims. (Cl. 190—24)



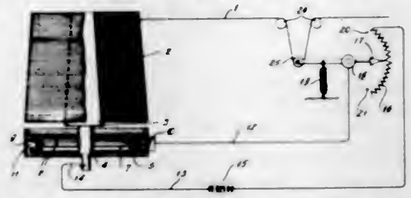
1. A stitched case comprising an inner skeleton frame having longitudinal side members and wooden end panels of uniform thickness throughout, a trough-shaped cover of sheet material fitting the side members of the frame and terminating flush with the outer faces of the end panels, and flexible binding strips stitched to the ends of the cover, folded over three edges of the end panels and stitched thereto through the wood of the panels.

2,661,824
COMPARTED TRAVELING BAG
Lawrence Nelson, Jr., Chicago, Ill.
Application August 31, 1950, Serial No. 182,480
4 Claims. (Cl. 190—51)



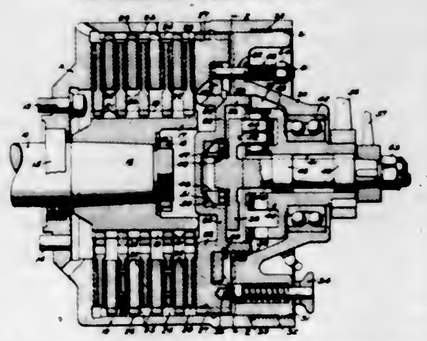
1. A traveling or sports bag comprising an outer case having side and end walls and a closable arched top therefor, said arched top including inwardly sloped converging top walls, an inner case substantially coextensive in length with the outer case and centered therein, and having side walls spaced from the side walls of the outer case to form an inner compartment within the inner case and an outer compartment exteriorally thereof, an arched closable top for the inner case, said latter top conforming generally in shape to the arched top of the outer case and being spaced from the first-named top when both are closed, whereby the arched top of the inner case may be used as a hanger for clothing with the clothing extending on both sides of the inner case within said outer compartment.

2,661,825
HIGH FIDELITY SLIP CONTROL
Willis M. Winslow, Wheatridge, Colo., assignor to Wefco Inc., Denver, Colo., a corporation of Colorado
Application January 7, 1949, Serial No. 69,645
3 Claims. (Cl. 192—21.5)



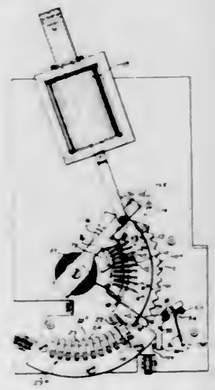
1. In a mechanical force transmitting control, the combination with closely spaced extensive wall members mounted for relative movement and having their opposed surfaces in general parallelism, a fluid medium occupying the space between said surfaces and comprising a liquid permanently and homogeneously laden with particles which are mutually attractable in the presence of a flux field, means including one of said wall members adapted to continually exert shearing stress on said fluid medium, and means including the other of said wall members adapted to receive shearing stress from said fluid medium, of means applying a continually varying flux field to effect mutual attraction of said particles and thereby impart shearing resistance to said medium and shearing stress to said other wall member, and a dispersing agent blended in said medium for separating the attracted particles during decreasing flux field to thereby cause the shear stress imparted to said other wall member to follow with fidelity the variations of the applied flux field.

2,661,826
CLUTCH
Donald E. Hendrickson, Edwin B. Royle, and Daniel M. Schwartz, Salt Lake City, Utah, assignors to The Eimco Corporation, Salt Lake City, Utah, a corporation of Utah
Application December 24, 1948, Serial No. 67,172
16 Claims. (Cl. 192—93)



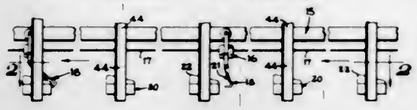
1. In a clutch including a rotary driving member, a rotary driven member coaxially positioned with respect to said driving member, and complementary clutch elements carried by said driving and driven members engageable and disengageable in the axial direction, a reaction plate mounted on one of said rotary members and adjustably positioned thereon, a presser plate, means mounting said presser plate on one of said rotary members for axial movement to actuate said complementary clutch elements, clutch actuating means acting between said reaction plate and said presser plate to move said presser plate axially away from said reaction plate to a clutch-actuating position, and resilient means acting between said reaction plate and said presser plate urging said presser plate axially towards said normal position.

2,661,827
AUTOMATIC VENDING MACHINE
Jaroslav Munz and Jaroslav Tichopad, Toronto, Ontario, Canada, assignors to Vend-O-Matic Limited, Toronto, Ontario, Canada, a company of Ontario
Application January 16, 1948, Serial No. 2,778
4 Claims. (Cl. 194—9)



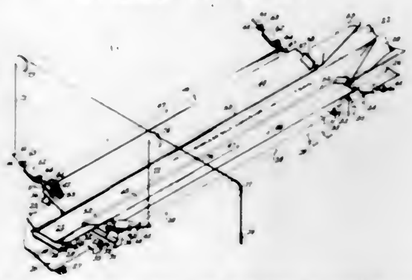
1. A coin totalizer device of the class adapted to accept coins of various denominations, and comprising in combination: an armature body, means for supporting said body in a retracted position for horizontal movement therefrom on a predetermined path, a plurality of equally spaced apart slots in said body disposed along but transversely of the path of movement thereof and being of a size allowing passage therethrough of the largest denomination of coinage acceptable by the totalizer device, a free-ended coin support arm disposed beneath said slots but traversable by the latter upon movement of the armature body along said path, an actuating member of constant stroke movable in the direction of movement of the armature body to engage a coin supported by said arm in a slot of said body to cause the armature body to be moved along said path a distance corresponding to the distance of the slot in which the coin is supported from the free end of said support arm, electrical drive means for moving said actuating member, a source of electrical energy for energizing said drive means, an electrical switch actuable by said coin support arm, and means connecting said switch electrically in series with said electrical drive means and said source to provide energization of said drive means upon actuation of said switch.

2,661,828
CONVEYER SYSTEM
Rudolph B. Vogt, Cincinnati, Ohio, and Jesse F. Keville, Pomona, Calif., assignors to The E. W. Buschman Company, Cincinnati, Ohio, a corporation of Ohio
Application February 13, 1948, Serial No. 8,144
2 Claims. (Cl. 198—38)



1. A selective conveyor system adapted to suspend and transport a series of loaded bags or the like having suspension means and adapted to discharge the loaded bags at a plurality of pre-selected discharge stations, said conveyor system comprising a conveyor rail, a plurality of trolleys, a conveyor cable connected in common to the trolleys and adapted to advance the same along the rail, each of said trolleys having a pair of vertical hangers secured along opposite sides thereof, said hangers having upper ends straddling said rail and having lower ends extending below the trolley, respective rollers journalled upon the upper ends of said hangers and tracked upon the opposite sides of the rail, whereby the trolleys are suspended from the rail, a carrier strap having an upper end interposed between and pivotally connected to the lower ends of said hangers upon an axis disposed at right angles to the cable, each of said straps having a cantilever extension at its lower end extended generally on a horizontal axis forwardly in the direction of conveyor advancement and adapted to engage the suspension means of the bag during transport, a respective trip bar secured to each of said carrier straps in a plane intermediate its pivotally mounted upper end and said cantilever extension, each of said trip bars extending transversely from the opposite sides of the strap and at right angles to the direction of advancement, the trip bars being of successively increasing length from the leading toward the trailing trip bars as determined by the direction of conveyor advancement, a series of stationary skid members mounted in spaced pairs along said conveyor rail, each pair of skid members being spaced apart transversely to the direction of conveyor advancement, said spaced skid members being of substantial length and having parallel upper edges inclined upwardly in the direction of conveyor advancement, said edges being disposed in the path of advancement of the trip bars and being arranged in successively decreased spacing in the direction of advancement and related to the increasing length of the trip bars to provide selective discharge stations, said edges being adapted to provide clearance for the passage therebetween of trip bars which are shorter than said spacing and adapted to intercept the opposite ends of related trip bars which are greater in length than said spacing, said inclined upper edges being adapted to cam the related trip bar upwardly and to partially sustain the weight load of the suspended bag with the carrier strap stabilized laterally during advancement of the trip bar along said inclined edges, whereby the advancement of the trolley by said cable is effective to swing said carrier strap progressively to an angular position causing the suspension means of the bag to slide from said cantilever extension at the discharge station.

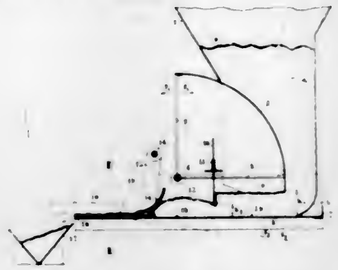
2,661,829
CONVEYER LOADING STATION
Keith McCann, Taylorville, and Roy F. Lo Presti, Chicago, Ill., assignors to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 6, 1951, Serial No. 219,588
8 Claims. (Cl. 198—52)



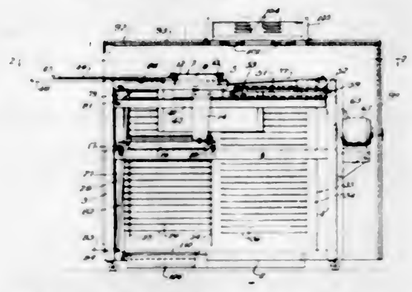
1. A loading station for a belt conveyor comprising: at least one deflector apron overlapping a side of said conveyor and being mounted on a supporting frame for up and down tilting movement between lifted and lowered positions relative to said conveyor about a horizontal axis extending longitudinally of said conveyor; counterbalancing means including a rod carried by said apron and movable through a horizontal position upon tilting movement of the apron between lifted and lowered positions; spaced stops on said rod and a counter-weight shiftable along said rod between limits defined by said stops, said stops being disposed along said rod so that said apron is substantially counter-balanced at a position intermediate its said lifted and lowered positions when the counter-weight is at a corresponding position intermediate the stops; and an upwardly inclined deflector element carried on the inbye portion of said apron and effective to lift the latter upon engagement by a load carried on the conveyor; whereby lifting of said apron by said deflector is effective to tilt said rod through its horizontal position to cause the counter-weight to shift to a limit position where the apron is maintained stably in its lifted position, and whereby further downward movement of the apron shifts the counter-weight to its opposite limit position to maintain the apron stably in its lowered position.

2,661,830
MECHANISM FOR DISTRIBUTING SLIM ARTICLES
Henri Total, Paris, France, assignor to Societe Anonyme dite: Machines Automatiques Bardet, Paris, France
Application July 15, 1952, Serial No. 298,900
Claims priority, application France July 30, 1951
6 Claims. (Cl. 198—56)

1. A mechanism for distributing macaroni, spaghetti, and like slim commodities which comprises a supply hopper having three substantially vertical fixed walls and a substantially quarter-round wall mounted for oscillatory motion about its horizontal axis, a reciprocatable floor with side walls disposed below the hopper crosswise to said axis, a flexible baffle having its lower surface positioned at an adjustable distance above said floor for regulating the flow of articles across the floor, an oscillatable ranging hand disposed downstream of said baffle adapted to allow a single layer of the articles being handled to creep on the reciprocatable floor, a longitudinal guide disposed downstream of said ranging hand for preventing crooked articles from overlapping adjacent articles, fixed obstacles disposed transversely on the floor to keep the articles parallel, means for oscillating the quarter-round hopper wall, means for reciprocating said floor, and means for oscillating said ranging hand.



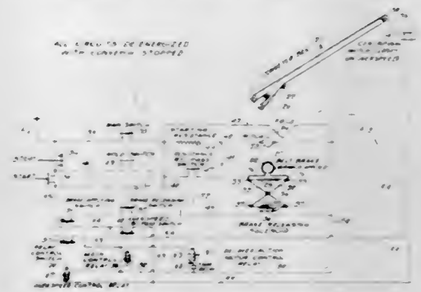
2,661,831
DRYING MACHINE CONVEYER AND TRANSFER MECHANISM
Leo G. Kenney, Chicago, Ill.
Application January 3, 1951, Serial No. 204,195
8 Claims. (Cl. 198—84)



1. In a machine for drying articles, two fixed stacks of shelves, adjacent sides of said stacks being spaced apart and arranged face-to-face, the shelves of one stack being disposed in staggered relation with respect to the shelves of the other stack, and means including interconnected sets of push rods extending vertically through their respective stacks of shelves to move articles back and forth between the two stacks of shelves to cause the articles to descend through the machine.

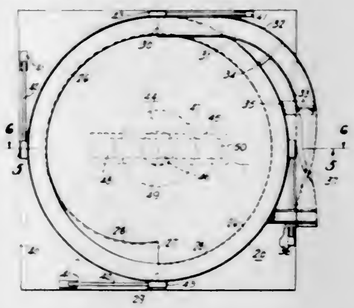
2,661,832
CONVEYER BELT BRAKE CONTROL SYSTEM
Roger M. Buckeridge, Downers Grove, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 29, 1951, Serial No. 218,244
7 Claims. (Cl. 198—203)

1. In an endless belt conveyor mechanism, an endless belt, an electric motor operable to drive said belt, a brake biased to retard said belt, a control system comprising: a main circuit connecting said motor to an E. M. F. source; a normally-open switch in said main circuit; a brake circuit having releasing means electrically energizable to release said brake against its bias; a normally-open switch in said brake circuit; electrically energizable relay means, effective, when energized, to close both of said switches; means for energizing said relay means; a normally-open speed-responsive switch actuatable to closed position responsive to increase of belt speed above a predetermined value; and other relay means having a coil energizable responsive to closing of said speed-responsive switch, and having contacts connected in said brake circuit



and said main circuit opening upon energization of said coil and held open by voltage generated by said motor, to deenergize the first-mentioned relay means and said brake circuit for deenergizing the motor and accommodating the brake to be biased to retard the belt.

2,661,833
ARTICLE INVERTING FEEDING BOWLS
William V. Spurlin, Indiana, Pa., assignor to Syntron Company, Homer City, Pa., a corporation of Delaware
Application March 19, 1951, Serial No. 216,365
3 Claims. (Cl. 198—220)



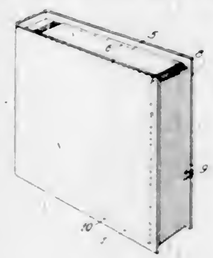
1. An article handling feeder bowl for delivering in turn each of a series of articles in a position other than that in which it is initially conveyed from the bottom of the bowl which comprises, feeder motor means for effecting reciprocation in an inclined arcuate path of movement, a bowl adapted to be secured to said feeder motor and having a bottom with an upstanding annular wall, a conveyor floor extending from the bottom of the bowl upwardly around the annular wall for feeding articles therealong when said feeder motor is energized, a discharge conveyor section having a floor portion and marginal flanges turned inwardly toward each other and having a twist therein, means to connect said discharge section directly to the upper end of the conveyor floor to continue the same along a conveying path, and means on said bowl to support said discharge section with the twist therein to position said inturned flanges to support the articles in a position other than upright as they are discharged.

2,661,834
SHAKER CONVEYER
Ernst R. Bergmann, Evergreen Park, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 9, 1951, Serial No. 230,749
9 Claims. (Cl. 198—220)



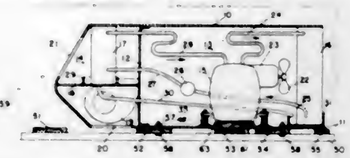
3. An articulated connection for a shaker conveyor comprising a main frame, a main trough reciprocably mounted on said main frame, an auxiliary trough swingable about an axis on said main frame, a first pivotal frame mounted on said main frame for swinging movement about said axis and having said auxiliary trough reciprocably mounted thereon, a movable rack carried by said first pivotal frame, a stationary rack carried by said main frame, a pinion interposed between said racks, a second pivotal frame mounted on said main frame for swinging movement about said axis and having said pinion rotatably mounted therein, guide means on said second pivotal frame, and means for transmitting reciprocatory movement from one trough to the other including an articulated linkage extending from one trough to the other through said guide means and guided by the latter.

2,661,835
PACKAGE CUSHIONING AND SEALING MEANS
Ralph V. Grishaber, Neenah, Wis., assignor to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin
Application October 29, 1948, Serial No. 57,173
4 Claims. (Cl. 206—46)



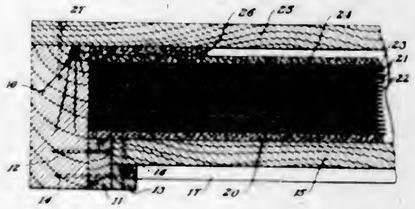
4. A sealed and cushion protected book-type package having front and back covers and a plurality of hingedly interconnected envelopes having open upper edges providing access to the interiors of said envelopes, and sealing and cushioning means comprising a web having end portions and an intermediate portion, said intermediate portion being disposed across the open upper edges of said envelopes, and said end portions extending into the package inside of said covers and united to the inside faces thereof, thereby to normally prevent opening of the package, and cushioning means carried by said end portions to protect the material in said envelopes, said intermediate web portion serving also to block access to said envelopes through the open edges thereof and being adapted to be separated from at least one of said end portions to permit opening of the package.

2,661,836
AIR CONDITIONING UNIT AND APPARATUS FOR SHIPPING
Bernard W. Jewell, Wichita, Kans., assignor to The O. A. Sutton Corporation, Inc., Wichita, Kans., a corporation of Kansas
Application August 1, 1952, Serial No. 302,265
4 Claims. (Cl. 206—46)



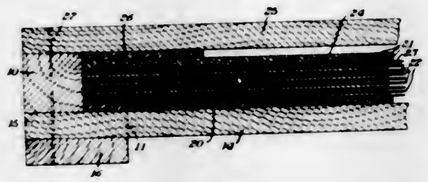
1. In combination for shipping purposes; a heavy appliance including a resiliently mounted, motorized unit, said appliance comprising a bottom wall having an opening therein, means attaching said unit to said wall including a plurality of resilient mounting means in surrounding relation to said opening and resiliently supporting said motorized unit above said bottom wall during operation, and a plurality of threaded members attached to said bottom wall in spaced relation to said opening; a pallet comprising a support projecting through said opening into engagement with the bottom of said motorized unit; and a plurality of shipping bolts engaging said threaded members to hold said pallet and said bottom wall in face-to-face engagement during shipping.

2,661,837
CRATING SYSTEM FOR SHEET MATERIAL OR THE LIKE
James W. McCracken, Leechburg, Pa.
Application May 15, 1951, Serial No. 226,443
7 Claims. (Cl. 206—60)



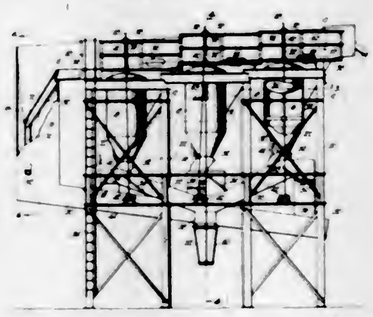
1. A substantially rectangular crate for sheet material or the like, comprising in combination, generally parallel side rails extending along the length of said crate, said side rails being generally rectangular in section, ledge rails of generally rectangular section extending along said side rails and affixed thereto inwardly thereof respectively adjacent the bottom thereof, said ledge rails having a height less than the height of said side rails thereof, nailing strips of generally rectangular section extending along said ledge rails and affixed thereto inwardly thereof respectively adjacent the bottoms thereof, said nailing strips having a height less than the height of said ledge rails, said side rails, ledge rails and nailing strips forming subassemblies downwardly and inwardly stepped, end rails extending between and connected to the respective ends of said subassemblies to close the ends of said crate, bottom crosspieces extending between the inner sides of said ledge rails and connected to said subassemblies, and top pieces extending over said bottom crosspieces generally at the top of said side rails, said top pieces being affixed to said subassemblies when said crate is complete.

2,661,838
CRATING SYSTEM FOR SHEET MATERIAL OR THE LIKE
James W. McCracken, Leechburg, Pa.
Application March 4, 1952, Serial No. 274,726
10 Claims. (Cl. 206—60)



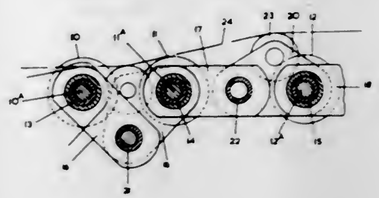
1. A substantially rectangular crate for sheet material or the like, comprising in combination, parallel side rails extending along the length of said crate, said side rails being rectangular in section, ledge rails affixed to said side rails and extending inwardly thereof respectively adjacent the bottoms thereof, said ledge rails having longitudinally spaced sections, bottom crosspieces extending between the outer sides of said side rails and being positioned in the spaces between said sections, said bottom crosspieces being affixed to the adjacent bottoms of said side rails respectively, the tops of said sections and said bottom crosspieces being generally in the same plane, end rails affixed to said side rails, and top crosspieces connecting said side rails adjacent the tops thereof.

2,661,839
SAND CLASSIFYING APPARATUS
Leroy F. Bush, Edwardsville, Kans.
Application February 6, 1950, Serial No. 142,698
5 Claims. (Cl. 209—17)



1. Sand cleaning and classifying apparatus comprising a flume for the flow of dredge material, a material receiving hopper chamber underlying said flume and separated therefrom by a screening means intercepting the flow of material entering said chamber, a separate flow-controlling chamber in exterior and side by side relation to said hopper chamber and provided with a discharge outlet for regulating the flow of said material from said secod chamber and also having a material-receiving opening communicating with the lower end of said hopper chamber, and a valve controlling the flow through said discharge outlet and provided with float-control means located above said material-receiving opening and actuated in accordance with the liquid level of the contents within said flow-controlling chamber.

2,661,840
MEANS FOR GRADING ARTICLES BY SIZE
Stephen Ballard, Jr., and Peter Renold, Colwall, Malvern, England
Application September 10, 1951, Serial No. 245,782
4 Claims. (Cl. 209—106)



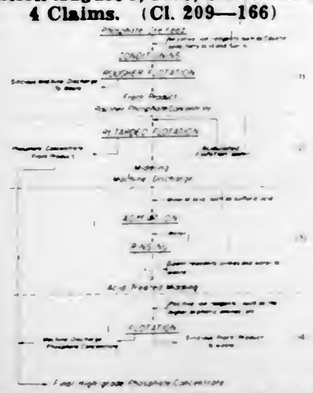
1. A machine for grading articles by size comprising a conveyor consisting of two spaced parallel driven chains each formed by links of normal contour alternating with triangular links, spaced pivots on the base of each of said triangular links connecting it to the ends of adjacent links, a roller at the apex of each tringular link having its axis spaced from a plane containing the axes of the base pivots, transverse conveying members extending between the chains and carried by alternate link pivots, means for constraining said alternate link pivots to move in a common plane over a part of their travel, and guides inclined to said common plane co-operating with said rollers for moving said triangular links angularly about the alternate link pivots and moving the intermediate link pivots out of and into said common plane.

2,661,841
COMPARING AND ASSORTING DEVICE FOR PAIRS OF PUNCH CARDS
George H. Wallace, Oak Park, Ill., assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware
Application June 30, 1948, Serial No. 36,217
15 Claims. (Cl. 209—110)



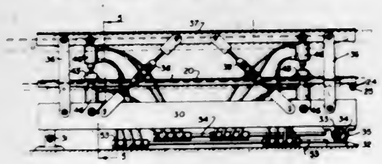
2. In apparatus for pairing related articles that function when properly paired and correlated to control operation of a cyclic operable machine to which paired articles are to be fed, means for feeding and comparing articles to group them in correlated pairs, including a first pair of comparing means for comparing two related articles first fed, another pair of comparing means for comparing one of said first two articles with a related article of another pair, and means operable to render said other comparing means effective only when the articles associated with the first comparing means are not properly paired and correlated one with the other, means for feeding properly paired and correlated articles to the machine, and means for rejecting articles which are not properly paired and correlated after repeated comparisons.

2,661,842
CONCENTRATION OF PHOSPHATE ORES
James B. Duke, Medulla, and Wesley M. Houston, Lakeland, Fla., assignors to Attapulgus Minerals & Chemicals Corporation, a corporation of Maryland
Application August 3, 1950, Serial No. 177,374
4 Claims. (Cl. 209—166)



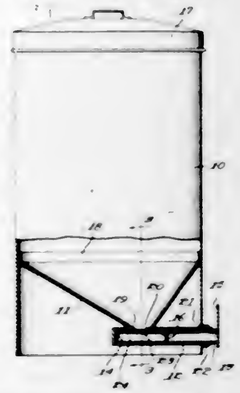
1. A method of concentrating phosphate minerals from their ores which comprises the following sequence of steps: (1) subjecting the ore in an aqueous pulp to a froth-flotation treatment with negative-ion reagents, thereby producing a froth-product which is a rougher concentrate of the phosphate values mixed with some silicious gangue; (2) subjecting said rougher concentrate in an aqueous pulp to retarded froth-flotation treatment and removing as a part of the final product a froth-product having a low insoluble content, and a middling residue; (3) subjecting said middling in an aqueous pulp to treatment with a mineral acid followed by rinsing with water, thereby removing from said middling substantially all of said negative-ion reagents; and (4) subjecting said acid-treated and rinsed middling in an aqueous pulp to a froth-flotation treatment with positive-ion reagents thereby producing a froth-product mostly composed of silicious gangue which is discarded, and a residue which is a high-grade phosphate concentrate and can be combined with the previously mentioned commercial-grade phosphate concentrate; thereby producing a final high-grade phosphate concentrate containing a high proportion of the phosphate in the ore.

2,661,843
ORE STRATIFYING AND CONCENTRATING MEANS
Ralph Sparks, Pecos, Tex.
Application May 3, 1951, Serial No. 224,308
3 Claims. (Cl. 209—443)



1. Ore concentrating and separating apparatus comprising a frame adjustable about a transverse horizontal axis, link-supported upper bars in said frame longitudinally shiftable in maintained parallelism with their plane of longitudinal adjustment about said axis, a pair of spacedly-parallel struts pivotally end-connected with each of said upper bars altitudinally of the frame for adjustment relative to the vertical in reaction to longitudinal shift of the associated bar, a mounting block slidably spring-positioned on each of said struts, a table carried by said blocks in maintained parallelism with said upper bars, pulsator units pivotally carried by said frame and engaging said blocks for the synchronous vibration of the latter axially of their struts in all adjusted strut dispositions, means for infeeding comminuted ore to one end of said table, and an adjustable diversion throat transversely interrupting said table inwardly adjacent its other end.

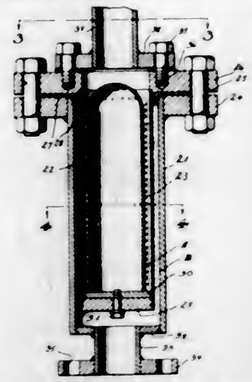
2,661,844
DAIRY CONTAINER SEDIMENT TRAP
Paul Kolbet, Cresco, Iowa
Application January 5, 1950, Serial No. 137,008
1 Claim. (Cl. 210—57)



A dairy can sediment trap comprising an outer tube positioned below the lower end of the can, said outer tube having an opening therein providing communicating means between the interior of the tube and interior of the can and positioned to receive sediment collecting in the lower end of the can, and a removable inner tube having a pocket in the inner end with an opening through the wall thereof positioned to register with the opening in the outer tube and through which sediment from the can may pass into the said pocket, said inner tube adapted to be rotated to close the opening in the wall thereof for trapping sediment collected in the pocket, said can having a conical shaped false bottom with the false bottom providing the lower end of the can and with the opening in the said outer tube positioned in the vertex of the said false bottom.

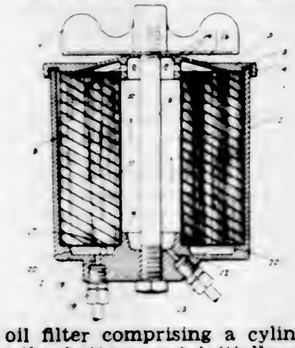
2,661,845
FILTER
Milton A. Sullivan, Enka, N. C., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application October 13, 1948, Serial No. 54,257
4 Claims. (Cl. 210—164)

1. A strainer assembly for viscose spinning solution comprising an elongated chamber; an inlet conduit leading into said chamber; an outlet conduit leading from said chamber; the cross sectional area of said chamber throughout its length being greater than the cross sectional area of either of said conduits; an imperforate body in said chamber; said body being smaller than the space defined by the inner surface of said chamber and having walls parallel to and equally spaced from the inner walls of said chamber, and, having its long axis coincident with the long axis of the chamber space, the walls of said imperforate body being smooth and unbroken in the direction of flow of viscose; the cross sectional area of the space defined between said body and the inner surface of said chamber being not



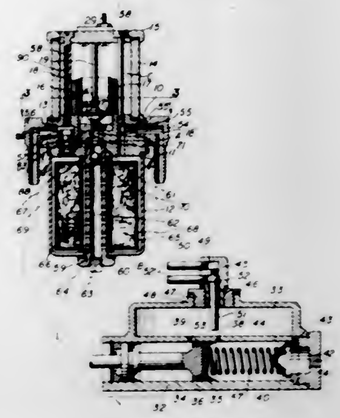
greater than the cross sectional area of either of said conduits; an elongated hollow screen interposed in spaced relation to and between said body and the inner surface of said chamber, a bottom for said screen, said imperforate body being unsupported at one end and being connected to said bottom at the other end.

2,661,846
FILTER
Gerland A. Lash and Ernest B. Chamberlin, Stockton, Calif.; said Lash assignor to said Chamberlin
Application March 14, 1950, Serial No. 149,639
4 Claims. (Cl. 210—164)



1. An oil filter comprising a cylindrical body closed at the bottom and initially open at the top, a cover removably secured on the body at the top, a roll of paper tissue replaceably disposed in the body as the filter element, said roll including a substantially imporous tubular center core, a boss depending from the cover into the top of the core in sealing relation therewith, the cover having an annular space thereabout above the roll and radially out from the boss and the latter having oil passage means therethrough communicating with said space, means in the bottom of the body engaging the lower end of the roll in core-sealing relation and providing an annular channel under the roll radially out from the core; there being oil passages leading to said channel and the interior of the core from the outside of the body.

2,661,847
BRAKE SYSTEM FILTER AND INDICATOR
Arthur J. Collins Buettner, Dallas, Tex.
Application September 23, 1950, Serial No. 186,462
4 Claims. (Cl. 210—166)

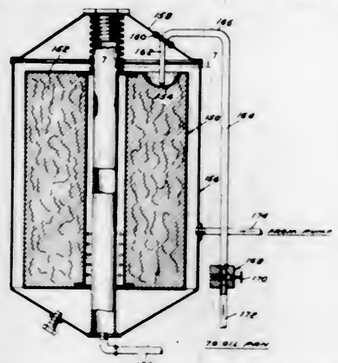


1. A brake fluid filtering device adapted for use with hydraulic brake systems having a master cylinder and a surge chamber in communication with said cylinder, the filtering device including, a supporting block, a surge vessel carried by the block, an inlet conductor adapted to be connected to the surge chamber of the brake system and having connection through the block with the surge vessel, a check valve between the inlet conductor and the surge vessel preventing flow from the vessel to the conductor, a filter between the inlet conductor and the surge vessel, an outlet conductor adapted to be connected to the surge chamber of the brake system and having connection through the block with the surge vessel, and a check valve between the surge vessel and the outlet conductor preventing flow from the outlet conductor to the surge vessel.

2,661,848
OIL FILTER CONSTRUCTION
William A. Gerhart, Harbor Springs, Mich.
Application April 12, 1951, Serial No. 220,663
1 Claim. (Cl. 210—166)

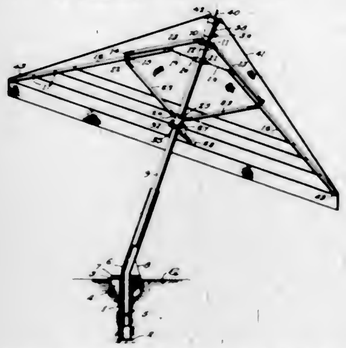
An oil filter for an internal combustion engine comprising a casing having an inlet and an outlet for conducting oil through said casing, said casing having an upper end portion formed at least in part of a transparent material, a filter cartridge in said casing, said filter cartridge having a generally flat top wall disposed adjacent said transparent end portion, means forming a well in said top wall the lower end of which is disposed at a level below the plane of said top wall, said top wall being apertured to admit oil to the interior of said cartridge, and conduit means having one end disposed within said well below the level of said top wall and having another end disposed exteriorly of said casing, said last mentioned end being disposed at a level below the bottom of said well and being provided with valve means for opening and closing said last mentioned end of said conduit whereby when said casing and said conduit are filled with oil and said valve is actuated to open the oil flowing downwardly through said conduit produces a syphoning action

on the oil within the said well and thereby causes the oil in said casing to drain out of said casing



until the oil in said casing recedes to a level below the plane of said top wall.

2,661,849
COMBINED CLOTHESLINE REEL AND AWNING
Robert Van Spalding, Salt Lake City, Utah
Application April 19, 1950, Serial No. 156,779
6 Claims. (Cl. 211—2)



5. In a combined clothesline reel and tent awning frame, a center post; radial upper and lower braces pivotally connected to the post; radial arms; means pivotally connecting the outer ends of the braces to the radial arms intermediate the ends of the radial arms and nearest their inner ends for swinging movement of the radial arms to selected positions of inclination relative to the post, including upwardly inclined positions of the arms, and with portions of the arms in engagement longitudinally with some of the braces; manually-operated means mounted on the post for selected adjustments longitudinally thereof to manually move the braces to exert force to adjust the arms toward one of the selected positions of the arms responsive to said adjustments of said means longitudinally of the post; and flexible clothesline means to maintain the arms in said upwardly inclined positions.

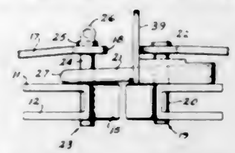
2,661,850
CURTAIN ROD
William E. Fowler and James A. Thompson, Pittsburgh, Pa.
Application February 23, 1950, Serial No. 145,664
4 Claims. (Cl. 211—105.4)

1. A curtain rod of widely adjustable length comprising a main tube and an extension tube telescopically fitted within said main tube, a knurled nut and integral tubular portion slip fitted to one end of said main tube, the other end of said main tube being externally threaded, a knurled sleeve screw threaded to said externally threaded end, a split ring enclosed within said knurled sleeve and having a tapered portion extending longitudinally and into engagement with a correspondingly tapered portion on the inner peripheral end portion of said main tube, said split ring having a plurality of longitudinally extending slots to provide a plurality of spring fingers and having a flanged end portion, said



knurled sleeve having a radially inwardly extending end flange portion adapted to engage a recessed portion of said split ring, whereby rotation of said threaded sleeve in one direction will clamp said main and extension tubes together through said split ring, and rotation in an opposite direction will unclamp said main and extension tubes, the extremity of said extension tube being internally threaded, and a threaded rod screw threaded to said extension tube extremity and having an integral knurled nut at the end thereof for providing vernier adjustment in the length of the curtain rod.

2,661,851
CAR COUPLING APPARATUS
John V. Berry, Johnstown, Pa.
Application August 22, 1950, Serial No. 180,880
10 Claims. (Cl. 213—188)

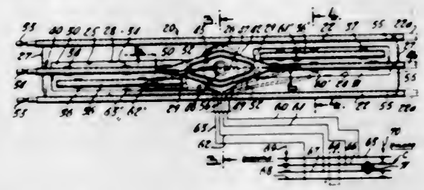


10. A safety control for a mine car coupling link comprising a U-shaped housing having an open end, a vertical wall extending around said housing and attached thereto, the lower end of said wall being provided with a reentrant flange to form a centrally recessed bottom for the housing, a reentrant flange on the upper edge of said wall for retaining a portion of a coupling link within the housing, said housing having means forming an incline adjacent the open end thereof, said last named means serving as a guiding means for said housing during coupling operations, and a handle attached to said housing whereby the link can be guided into position for coupling adjacent cars.

2,661,852
TOY ELECTRIC RAILROAD
Joseph L. Bonanno, Madison, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application April 23, 1949, Serial No. 89,290
14 Claims. (Cl. 213—212)

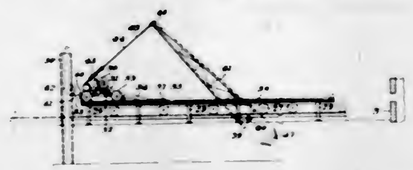
2. In a toy electric railroad, a track layout having parallel wheel bearing rails and a continuous power rail intermediate the wheel bearing rails and insulated therefrom, the power rail having a widened portion provided with an aperture, a toy train having current collecting means

contacting the power rail and wheeled trucks on the wheel bearing rails, the train including a toy railroad vehicle having a magnetizable armature disposed over the power rail and biased upwardly to provide a narrow air gap and mechanical clearance, and a vehicle carried, armature actuated device, the track carrying an electromagnet



below the level of the power rail and having an insulated core piece entering the aperture in the power rail and terminating at substantially the level of the power rail, the electromagnet acting on the magnetizable armature when thereover to attract the same and actuate the device on the vehicle.

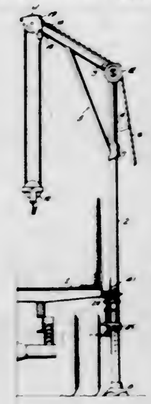
2,661,853
FURNACE CHARGING APPARATUS
Ray Gordon, Struthers, Ohio
Application January 5, 1948, Serial No. 495
14 Claims. (Cl. 214—23)



3. Furnace charging apparatus comprising a charging device movable toward and away from a furnace, driving means for thus moving the device and control means for controlling the driving means, the control means including a control element disposed in the path of a portion of the device actuatable by the device as it nears the furnace in its movement toward the furnace and connections between the control element and the driving means to reverse the direction of drive.

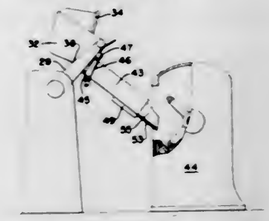
2,661,854
PORTABLE CRANE
William Gatewood Adams, Richmond, Va.
Application November 8, 1948, Serial No. 58,901
15 Claims. (Cl. 214—75)

15. In a material handling device, a post disposable in upright position, said post including a ground engaging means adapted to rest on the ground adjacent a vehicle having a spring supported material handling body, connecting means longitudinally movably engageable with the post and including means connectable with the body, said connecting means permitting rise and fall of the body and tilting movement of the body relative to the post without disturbing the upright position of the post, material handling means attached to the post, force applying means including a connection with the post positioned above the ground engaging means, and means operatively connectable to the spring supported body for lifting a part of the weight of the body on to the ground engaging means, said applying means including resilient means coacting with the post to compensate for loss of body weight



on the post upon rising movement of the vehicle body under varying load conditions of the body.

2,661,855
RETRACTABLE CHUTE FOR TROUGH HOISTS
Gerald A. Jorgenson, York, Pa., assignor to Read Standard Corporation, New York, N. Y., a corporation of Delaware
Application June 6, 1951, Serial No. 230,118
7 Claims. (Cl. 214—307)

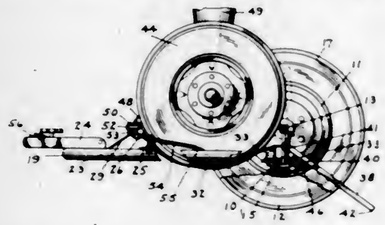


1. In a dough trough hoist, a rotatable shaft, crank arms secured to said shaft for swingably supporting a cradle having a dough trough therein, a chute associated with said cradle, driving means connected to said shaft for moving said cradle and chute through an arcuate path to discharge the dough from said trough into said chute, a plate slidably mounted on said chute and actuating means on said chute engageable with said plate for advancing and retracting said plate beyond the discharge end of said chute, and control means associated with said actuating means responsive to elevation of said cradle and chute to a predetermined point in said arcuate path for initiating operation of said actuating means to effect advancement of said plate beyond the discharge end of said chute.

2,661,856
DOLLY FOR SUPPORTING TRACTOR FRONT WHEELS
Aubrey H. Stanley, Clayton, and Lyman E. Maynard, Plainfield, Ind.
Application July 28, 1951, Serial No. 239,131
3 Claims. (Cl. 214—334)

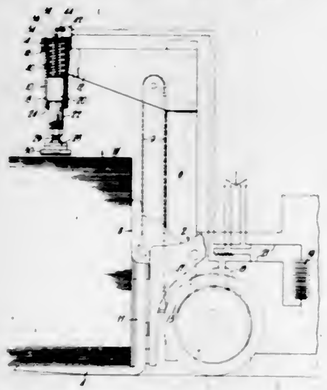
3. For a tricycle type tractor, a transporting unit to hold the tractor front, tired wheels above the ground, comprising a pair of wheels; a rigid

axle on which said wheels are revolubly mounted in fixed alignment; a wishbone frame of side members merging forwardly and centrally of said axle into a tongue, the rear ends of said members being fixed to said axle respectively adjacent said wheels; a plurality of spaced apart slats extending forwardly, downwardly and thence upwardly from said axle into the apex of said frame, forming a tractor front wheel receiving slot on each side of a central slat, the widths of said slats



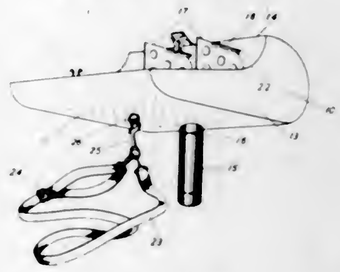
being less than the cross-section diameter of the tires of said tractor wheels; a bar extending laterally across and above the merging forward end portion of said side members; said slats having their front ends carried by said bar to have the bar extend thereabove as a forward stop for said tractor wheels; said axle having a dropped central portion from which said slats extend; a ramp hinged to said axle central portion; and off-center spring means retaining said ramp selectively in elevated and dropped positions.

2,661,857
HOLD-DOWN APPARATUS FOR INDUSTRIAL TRUCKS
John W. McNutt, Dravosburg, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application March 6, 1952, Serial No. 275,057
4 Claims. (Cl. 214—654)



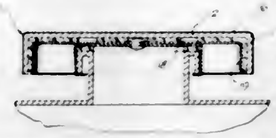
1. In an industrial truck having lifting means on its forward end comprising a pair of spaced vertically upright side members, a load carrier attached to and projecting forwardly between said members, and a hoisting mechanism for raising and lowering the load carrier along the side members, the combination therewith of a bracket arm extending forwardly from the upper portion of each of said side members in a plane above said load carrier, said arms being in parallel relation to each other, a supporting plate having an opening therethrough attached to and extending transversely between said bracket arms, a resilient clamping member supported by and depending from said plate above said load carrier for applying pressure on a load carried thereby, said clamping member including an elongated sleeve member mounted in said opening at one end and projecting downwardly therefrom toward said load carrier, a plunger slidably mounted for axial movement within said sleeve with one end projecting downwardly therefrom toward said load carrier, resilient means in said sleeve for urging said plunger downwardly toward said load carrier, means for limiting the downward movement of said plunger in said sleeve, a pressure plate attached to the projecting end of said plunger normal thereto for contacting the top of a load carried by said load carrier, a rod attached to the upper surface of said plunger in said sleeve and extending upwardly therefrom toward said opening, a limit switch having an actuating lever projecting therefrom mounted on said plate with said lever disposed over said opening in the path of said rod, said switch being connected with said hoisting mechanism for controlling the same, said rod being adapted to contact said lever arm to actuate said limit switch to stop the hoisting mechanism when the plunger of said clamping is moved upwardly by the top of a load being carried by said load carrier.

2,661,858
PAINT RECEPTACLE
Clarence G. Howell, Columbus, Ohio
Application April 8, 1952, Serial No. 281,136
2 Claims. (Cl. 220—1)



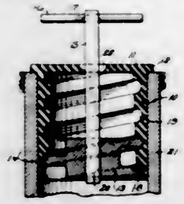
1. A paint receptacle for use with a roller type applicator comprising a body for containing paint or the like having side walls and a bottom over which the rollers are rolled in applying the paint thereto, a hood at one end of the body joined to said side walls and said bottom and projecting forwardly over the bottom for a portion of the length thereof in spaced relationship thereto so that a container for the paint is provided by the hood when the bottom is disposed out of horizontal position with the hood lowermost, a flexible member for suspending the receptacle from the shoulder of a painter using the receptacle, means for attaching said member to the bottom of the receptacle midway between the sides thereof and forwardly of the center of gravity thereof, and a handle depending from said bottom and located in alignment with said attaching means but rearwardly thereof whereby when the receptacle is suspended from the shoulder by said flexible means the handle can be grasped with one hand and the receptacle can be pushed outwardly with the flexible member under tension to position the receptacle with the bottom inclined downwardly and outwardly away from the painter ready to receive the roller which can be grasped with the other hand by the painter and rolled along the bottom of the receptacle.

2,661,859
HEAT RESISTANT RADIATOR CAP COVER ATTACHMENT
Frank O. Dolezal, San Francisco, Calif.
Application December 28, 1951, Serial No. 263,878
1 Claim. (Cl. 220—24)



A protective cover for an automatic radiator cap comprising a heat-insulating main body of compressed sheet asbestos composition having a substantially circular intermediate portion, diametrically opposed lug portions, and a peripheral depending flange, said main body being shaped to fit over an automobile radiator cap, a coating of luminous material on the exterior of said body, and an inner, deformable heat-insulating lining of resilient sheet cork formed with a plurality of apertures, said inner lining being secured inside said main body and being arranged to frictionally engage the radiator cap to secure the cover thereon.

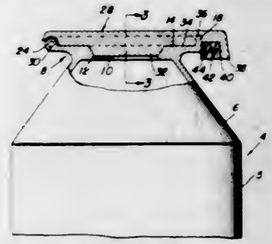
2,661,860
AUXILIARY DRAIN PLUG
William J. Albert, South Bend, Ind.
Application November 15, 1951, Serial No. 256,581
1 Claim. (Cl. 220—24.5)



In an auxiliary drain plug, the combination which comprises a cylindrical sleeve of resilient material having a tapering threaded inner surface, said sleeve having a web extended across one end and a flange providing an extended edge extended from the web, said web having a centrally positioned tapered opening therein, a disc having threads on the outer surface positioned in said sleeve, the diameter of the disc being greater than the smallest inner diameter of the sleeve, a square stem extended from the disc through the tapered opening in the web at the end of the sleeve and fixed at its lower end to the disc, and a rod serving as a handle extended through the outer end of the stem for rotating the disc in the sleeve to expand the sleeve by reason of the larger diameter of the disc in relation to the smaller diameter of the tapered inner surface of the sleeve.

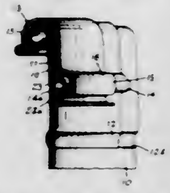
2,661,861
CONTAINER CLOSURE
Elmer C. Oldenburg, Blakeley, Minn.
Application November 19, 1951, Serial No. 257,041
3 Claims. (Cl. 220—31)

1. A milk can construction comprising a container having a truncated conical neck provided at its truncated end with a fixed closure basing member, the latter having a centered opening encompassed by an outstanding flat surfaced shelf-like endless ledge, the outer marginal edge portion of the latter having upstanding flanges cooperating in forming an endless marginal rim, and a cover member of a size greater than and hingedly connected with said closure basing member, the underside of said cover member having a centered stopper removably plugged into said



opening, having a flat lidding surface surrounding said stopper and corresponding to and tightly superimposed on said ledge, and also having marginal groove means receiving said flanges, whereby said stopper fitting into said opening, said cooperating ledge and lidding surface, and flanges fitting into said groove means collectively effect a satisfactory and sanitary seal.

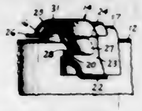
2,661,862
CLOSURE ASSEMBLY FOR CONTAINERS
Herbert B. Howe, Chatham, N. J.
Application April 22, 1950, Serial No. 157,441
4 Claims. (Cl. 220—40)



1. A container and closure therefor, said container having a cylindrical wall portion defining an opening therein, an outwardly curled bead forming a sealing surface of curved cross section; a plurality of angularly spaced-apart locking members projecting inwardly from said cylindrical wall portion, each of said locking members having a downwardly facing bearing surface substantially perpendicular to said cylindrical wall portion and being slightly inclined with respect to a plane perpendicular to the longitudinal axis of said cylindrical wall portion; said cylindrical wall portion comprising a cylindrical wall and a cylindrical collar disposed concentrically and contiguously with respect to said cylindrical wall and extending inwardly a short distance from the open end of the container, the upper edge of the collar being rolled in the bead to secure it above said locking members; and means securing the lower edge of said cylindrical collar to said cylindrical wall below said locking members against axial movement upon impact; said closure being of substantially disc-like shape and having a continuous outwardly extending circumferential sealing surface conforming to and adapted to overlie the sealing surface on said cylindrical wall portion to form a tight joint, said closure also having a central depressed portion forming a peripheral wall, the upper portion of said peripheral wall snugly fitting said cylindrical wall portion and the lower portion of said peripheral wall having a plurality of angularly spaced-apart out-

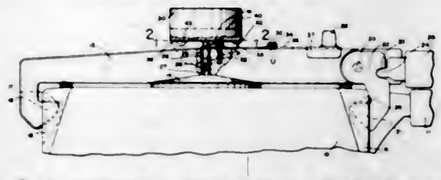
wardly projecting locking members, the length of said closure locking members being less than the spacing between the adjacent container locking members to facilitate insertion of the closure in the container; each of said closure locking members having a bearing surface lying substantially perpendicular to said peripheral wall of the closure and being slightly inclined with respect to a plane perpendicular to the axis of said peripheral wall, such that when the closure is turned in the container the locking member bearing surfaces on the cylindrical wall portion of the container tightly engage the locking member bearing surfaces on the closure, bringing the circumferential sealing surfaces on the closure and on said cylindrical wall portion towards each other to form an effective seal.

2,661,863
CLOSURE FOR CONTAINERS
Herbert B. Howe, Chatham, N. J.
Application April 22, 1950, Serial No. 157,442
1 Claim. (Cl. 220—40)



A container and closure therefor, one surface of the container having a cylindrical wall portion defining an opening therein and extending into the container, said container having an outer product-confining wall laterally surrounding and spaced from said cylindrical wall portion, a continuous circumferential sealing surface joining said cylindrical wall portion adjacent its outer end and said surface in a fluid tight connection, a plurality of angularly spaced-apart locking members projecting radially inwardly from said cylindrical wall portion, each of said locking members having a bearing surface substantially perpendicular to said cylindrical wall portion and being slightly inclined with respect to a plane perpendicular to the longitudinal axis of said cylindrical wall portion, said locking members being struck inwardly from the surface of the cylindrical wall to form drain openings communicating with the inside of the container, each of said locking members being disposed in said cylindrical wall portion substantially in the plane of said outer product-confining wall, said locking members being spaced from the inner edge of said cylindrical wall portion along the axis of the cylindrical wall portion; said closure being of substantially disc-like shape and having a continuous outwardly extending circumferential sealing surface conforming to and adapted to overlie the sealing surface on said cylindrical wall portion to form a tight joint, said closure also having a central depressed portion forming a peripheral wall, the upper portion of said peripheral wall fitting within said cylindrical wall portion and the lower portion of said peripheral wall having a plurality of angularly spaced-apart outwardly projecting locking members, the length of said closure locking members being less than the spacing between the adjacent container locking members to facilitate insertion of the closure in the container; each of said closure locking members having a bearing surface lying substantially perpendicular to said peripheral wall of the closure and being slightly inclined with respect to a plane perpendicular to the axis of said peripheral wall, such that when the closure is turned in the container the locking member bearing surfaces on the cylindrical wall portion of the container tightly engage the locking member bearing surfaces on the closure, bringing the circumferential sealing surfaces on the closure and on said cylindrical wall portion towards each other to form an effective seal preventing leakage through said drain openings.

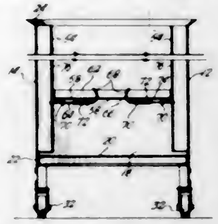
2,661,864
PRESSURE COOKER RELIEF DEVICE
Maurice H. Graham, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application January 23, 1948, Serial No. 3,927
8 Claims. (Cl. 220—44)



1. In a pressure cooker having a body, a cover, a removable crossbar supporting said cover and having an open topped vertical passage therein provided with an intermediate valve seat, and a pressure control weight having a valve stem loosely receivable in said passage to close said seat and be supported thereby, the improvement comprising an operating slide movable longitudinally on said crossbar, a handle on said slide, a cam on said slide, and a portion on said weight engaged by said cam for lifting the weight as the handle is moved toward the weight, said portion being offset from said stem on the side opposite said handle for tilting said weight and stem toward the handle as the weight is lifted

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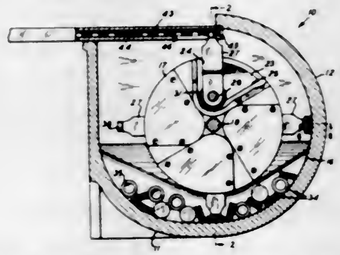
2,661,865
APPPARATUS FOR TREATING ANIMALS
Delbert O. Wendt, Bonner Springs, Kans.
Application May 19, 1950, Serial No. 162,936
1 Claim. (Cl. 220—93)



In combination with an open top tank having a pair of spaced, vertical side walls, a pair of spaced, vertical supports mounted on the innermost face of each side wall respectively, each support having a vertical row of openings therein; an elongated, horizontal platform disposed within the tank for vertical sliding engagement of its longitudinal edges with the supports; a separate plunger on the lowermost face of the platform for each support respectively, each plunger having a finger hook thereon, said platform having a transverse slot receiving each of the hooks respectively, there being two pairs of plungers, the plungers of each pair thereof being reciprocable transversely of the platform toward and away from each other, each plunger being normally within an opening of a corresponding support, and each having a spring

coiled thereabout for yieldably holding the same biased into the openings; and a pair of brackets on each longitudinal edge respectively of the platform, each pair of brackets being between a pair of supports in sliding relationship thereto for holding the platform against movement relative to the tank on the longitudinal axis of the platform.

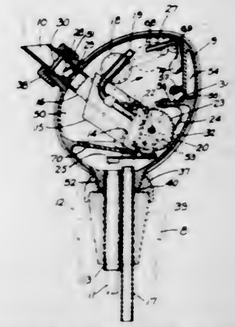
2,661,866
APPARATUS FOR MAGAZINING ARTICLES
Carl B. Lubbert, Annealie, Md., and Charles H. Trimble, Winston Salem, N. C., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 14, 1951, Serial No. 210,852
5 Claims. (Cl. 222—10)



1. An apparatus for feeding articles into a magazine, which comprises a container for holding a supply of articles, a rotor rotatable within the container, a plurality of arms mounted pivotally on opposite sides of the rotor and being resiliently biased against movement in a direction opposite to the direction of rotation of the rotor, said arms having their ends designed to pick up individual articles as they travel adjacent to the bottom portion of the container, an arcuate rib provided in the lower portion of the container for concentrating the articles in the path of travel of the arms, and a pair of tubular magazines having their entrance ends extending into the upper portion of the container so as to receive articles from the arms as the arms are carried past the entrance end of the magazines, said magazines being so positioned that the arms assume oblique positions against the action of their respective resilient biasing means after they engage the entrance end of the magazine and are withdrawn from the articles.

2,661,867
DISPENSING BOTTLE TOP
Bruno J. Christeck and Leonard Z. Plebanek, Chicago, Ill.
Application July 9, 1949, Serial No. 103,832
13 Claims. (Cl. 222—38)

4. In combination with a measuring device of the type described which operates on a siphon principle for repeatedly measuring out predetermined increments of liquid content material from a vessel into a measuring chamber and automatically dispensing a measured quantity of the content material from the measured chamber when said chamber becomes filled with the predetermined quantity, a registration device arranged within the measuring chamber for recording the number of units which has been dispensed including a numbered ratchet wheel mounted within the chamber for free turning movement, a float responsive to the level of the content material within the measuring chamber, a dog operative with the float to engage the ratchet wheel, and advance said wheel one increment as the float rises to the level corresponding to a desired increment of content material within the measuring chamber, and a spring lever fixed at one end to a wall of the device while the other end



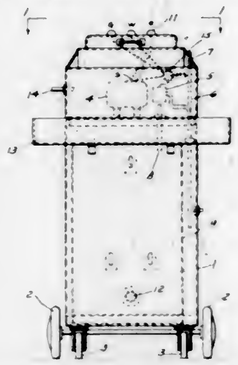
tensionally engages the ratchet wheel to militate against movement other than that responsive to the float while the device is in the mounted relation on the vessel.

2,661,868
GERMICIDE SEED TREATING APPARATUS
Andrew O. Siren, Calgary, Alberta, Canada
Application November 29, 1948, Serial No. 62,561
5 Claims. (Cl. 222—57)



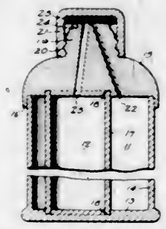
1. In a grain dusting apparatus comprising a hopper, an enclosed twin-chamber grain receiving weigher balanced on a spindle below said hopper to be automatically overbalanced by the accumulation of grain in one of said chambers at one time in an alternatively oscillating manner, a pivoted outlet gate for each of said chambers for grain discharge therefrom, means to automatically retain the opened and closed positions of each said gate at each oscillation of said weigher, a germicide dust container situated in said hopper having a dust discharge slotted aperture with slidable means to regulate the size of the aperture, means to stir the dust in said container, an oscillatory spindle-mounted shutter below said container aperture to direct and dispense the correct discharge therefrom alternately into one of said grain filled weigher chambers, and mechanism outside said container to oscillate said dust stirring means and said shutter synchronously with said weigher movements.

2,661,869
OIL CHANGER
Leonard R. Simpson, Birmingham, Ala.
Application April 30, 1948, Serial No. 24,119
1 Claim. (Cl. 222—128)



An automobile motor crank case oil changer of the character described comprising; a main containing case having a substantially square shape in cross section, a square shaped tank mounted within the main case and being of a size to occupy substantially all of the lower and middle portion of the main case, said tank having a drain pipe in the lower portion of one of its walls and extending through the wall of the main case, an electric motor mounted within the upper portion of the main case, a rotary type pump attached near and to said motor and being adapted to revolve clock-wise and anti-clock-wise, a first conduit connecting said pump to said tank, a second conduit connected to said pump at one end and adapted to be inserted in the crank case of an automobile at its other end, said pump being adapted to withdraw fluid through said second conduit and discharge same into said tank through said first conduit when revolving in one direction, and withdraw the fluid from said tank through said first conduit and discharge it through said second conduit when revolving in the opposite direction.

2,661,870
MULTIPLE LIQUID DISPENSING CONTAINER
Alfred G. Huenergardt, Beverly Hills, Calif.
Application September 28, 1948, Serial No. 51,517
2 Claims. (Cl. 222—129)



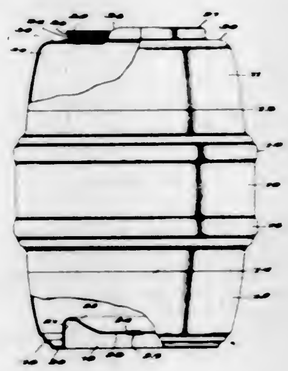
1. In a dispenser for simultaneously dispensing two incompatible ingredients, such as a lanolin bearing oil and an aqueous liquid, of a cosmetic preparation, said ingredients to be mixed upon application to the skin; an outer shell and means defining two chambers within said shell, one to contain the oil and the other to contain the aqueous liquid; said dispenser having an end member terminating in an end wall of substantially uniform transverse continuity and having two outlets communicating respectively with said chambers and at their outer ends terminating in closely spaced end openings lying substantially in said end wall, whereby both end openings and said end wall may establish substantially sealing contact with the palm of the hand to avoid splashing of the liquid therefrom; said outlets being constricted so as to restrict flow to a controlled flow; and one of said outlets having an area materially greater than that of the other outlet, in a proportion such as to effect the ejection of proportional quantities of the respective liquids, with the larger outlet accommodating the more viscous lanolin bearing oil and the smaller outlet providing restricted passage for the thinner aqueous liquid; said dispenser being composed of several sections of heat softening plastic material, including a body section having a tubular lateral wall, including said end member, said end member having a flange bonded to the upper end of said lateral wall member, and including a partition constituting said chamber defining means and being bonded to said end member between said outlets at its upper end.

2,661,871
MULTIPLE LIQUID DISPENSING CONTAINER
Alfred G. Huenergardt, Beverly Hills, Calif.
Application April 17, 1950, Serial No. 156,330
2 Claims. (Cl. 222—129)



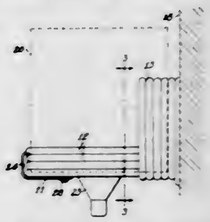
1. In a dispensing container for simultaneously dispensing two incompatible ingredients such as a lanolin bearing oil and an aqueous liquid of a cosmetic preparation, said ingredients to be mixed upon application to the skin, said dispensing container being composed of several sections of synthetic resin plastic material including: an outer shell comprising a bottom section having a marginal flange and an upwardly opening integral channel extending diametrically across the upper side of said bottom, a tubular lateral wall section joined to said bottom flange at its lower end, and a top section having a marginal flange joined to the upper end of said lateral wall section and embodying an integral neck of reduced diameter relative to its said marginal flange; a partition extending diametrically across said outer shell and dividing it into two compartments, with its lower end secured in said channel and its lateral edges bonded to the inner wall of said tubular lateral wall portion, said partition having a portion of reduced width projecting upwardly into said neck and bonded to the inner lateral wall thereof; said neck having a flat end member provided with dispensing outlets located on opposite sides of said partition and communicating with the respective compartments, one of said outlets having an area materially greater than that of the other outlet, in a proportion such as to effect the ejection of proportional quantities of the respective liquids with the larger outlet accommodating the more viscous liquid and the smaller outlet providing restricted passage for the thinner liquid, said end wall being adapted to be tapped against the palm of one hand to effect said ejection, said outlets being immediately adjacent said partition so as to be closely spaced, and said end wall, around said outlets lying substantially in the plane of the outer extremities of said outlets whereby to engage the palm of the hand with a sealing contact such as to provide a small enclosed and sealed space into which said liquids may be delivered without splashing out of the hand.

2,661,872
CONTAINER
George Trautvetter, Jenkintown, Pa., assignor to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 24, 1949, Serial No. 123,225
4 Claims. (Cl. 222—143)



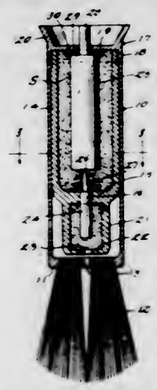
1. End structure for a container of relatively thin material, comprising a male stacking element in the form of a relatively narrow discontinuous rib extending from the main portion of the end of the container in an axial direction, the outer lateral wall of said rib having the configuration of a major portion of the perimeter of a closed, plane-geometric figure, said discontinuity providing the rib with spaced end portions, a pouring opening located between said end portions and wholly within the perimeter of said closed figure, and a plane outer stacking surface of substantial width and area lying normal to the longitudinal axis of the container and positioned radially outwardly of and surrounding said figure, said rib being of gradually decreasing height in said end portions until its interior surface merges into the interior surface surrounding said opening and at a level at least as low as the level of the interior surface area corresponding in location to said outer stacking surface, the inner lateral wall of said rib being elongated in an axial direction in the vicinity of a point located diametrically opposite from the pouring opening, to provide an indentation in the end of the container which is useful as a hand grip during handling of the container.

2,661,873
HOLDER UNIT FOR ALLOY GAUGES AND THE LIKE
Helen Marie Siptrott, New York, N. Y.
Application January 2, 1951, Serial No. 203,931
2 Claims. (Cl. 222—181)



2. A device of the class described comprising, in combination, a one piece holder unit having four walls, and being adapted to receive an alloy dispenser therein, said holder unit consisting of a low front wall, a bottom having a funnel, low corrugated side walls terminating in upwardly extending end portions, and a rear wall provided with holes, said front wall and bottom being each formed with a centrally cut-away portion, ridges formed upon each side of the bottom cut-away portion, a spring underneath said bottom and having an oblong opening therein, a screw member disposed in the latter, whereby to adjust said spring, said spring being adapted to slide between said ridges and having its front portion upwardly bent, whereby to secure the said alloy dispenser in adjusted position, screws mounted in the holes of the rear wall and securing the holder to a surface, said rear wall having a centrally located opening adapted to receive a plunger from said alloy dispenser, rearwardly projecting flanges surrounding the periphery of said rear wall and forming a space between the latter and said surface, whereby to obtain sufficient play for said plunger.

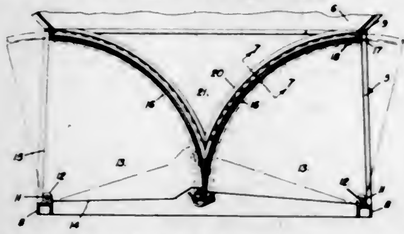
2,661,874
DISPENSING MEANS FOR FOUNTAIN BRUSHES
Herbert W. Appell, Mattapan, Mass.
Application November 7, 1949, Serial No. 125,907
1 Claim. (Cl. 222—341)



A dispensing means for a fountain brush comprising a reservoir having spaced front and rear walls, said front wall being formed with a delivery port, a discharge chamber carried by said reservoir and projecting forwardly of said front wall, said chamber including a wall apposed to and spaced from the front wall of the reservoir and

having a discharge port aligned with said delivery port, a valve plug slidable in said delivery port, a plunger in said reservoir, a stem connecting said valve plug with said plunger, a stud fixed to said plunger and extending slidably through the rear wall of the reservoir, a spring positioned between the plunger and the front wall of the reservoir and constantly urging said valve plug to closed position with respect to said delivery port, said valve plug being at least equal to the length of the discharge chamber and being of substantially the same cross sectional size as the delivery and discharge ports to seal off said ports when positioned therein whereby movement of said plunger and valve plug towards the front wall of the reservoir moves the valve plug into said discharge port to close off said discharge port while simultaneously disposing said valve plug in open position with respect to said delivery port whereby said discharge chamber may be filled from said reservoir, said plunger upon such movement towards the front wall of the reservoir forcing material in said reservoir through said delivery port.

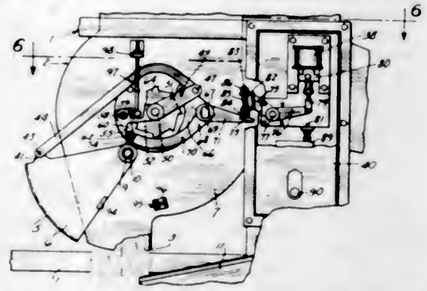
2,661,875
DUMP GATE
Fred Murray, Butler, Pa.
Application January 15, 1951, Serial No. 205,993
2 Claims. (Cl. 222—503)



1. A door of the class described comprising the combination of a delivery shell having at least one open side and an open bottom, a shaft journalled at the lower open side of the shell, an arcuate door connected to the shaft for rotation about the axis thereof and swingable inwardly and outwardly at the open side of the shell, downwardly projecting flanges at the upper and end edges of the shell, and upwardly projecting sealing flanges at the upper and end edges of the door, said end flanges of the shell and door having constant overlapping engagement with each other and said upper flanges of the shell and door having overlapping engagement with each other when the door is closed.

2,661,876
HOPPER AND POWER ACTUATED DISCHARGE GATE
Harold V. Kindseth, Minneapolis, Minn., assignor to Bemis Bro. Bag Co., Minneapolis, Minn., a corporation of Missouri
Application June 15, 1951, Serial No. 231,717
7 Claims. (Cl. 222—504)

1. In a device of the class described, a hopper for holding material to be dispensed and having a discharge opening through which said material is fed; a gate normally closing said discharge opening; means mounting the gate for movements in opposite directions to open and close the discharge opening; operating mechanism for the gate including a power driven rotary ratchet, a cooperating pawl yieldingly biased away from the ratchet, and linkage connecting the pawl with the gate and mounting the pawl for limited arcuate movements with said ratchet; a guide arm for said pawl; and means mounting the guide arm for movements toward and away from the ratchet, said guide arm having a surface portion traversed by the pawl during opening movements of the gate and an abutment portion engageable by the pawl when the gate is open to maintain the gate in its open position, movement of the guide arm toward the ratchet causing engagement of the pawl by the ratchet for common rotary movement therewith to open the



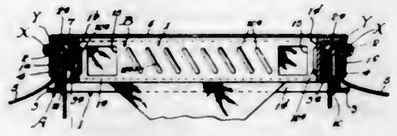
gate during the traversing of said pawl over said surface portion of the guide arm, said pawl moving out of engagement with the ratchet and into engagement with said abutment portion under the action of said yielding bias when the pawl has traversed said surface portion, whereby to maintain the gate in its open position, movement of said guide arm in the opposite direction releasing said abutment portion from engagement with the pawl and permitting movement of the pawl in a reverse direction to close the gate.

2,661,877
HOSIERY DRYING FORM
Walter H. Albertson, High Point, N. C., and Roy L. Mittelstadt, Kankakee, Ill., assignors to Paramount Textile Machinery Co., Kankakee, Ill., a corporation of Illinois
Application February 14, 1950, Serial No. 144,106
2 Claims. (Cl. 223—75)



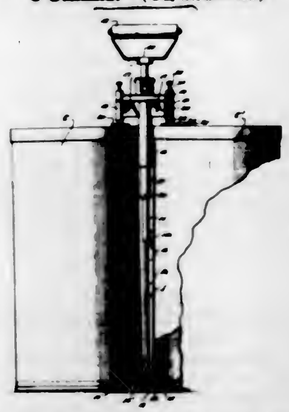
1. A hosiery form comprising metal plates having edges along which they are secured together, said plates being provided along one longitudinal edge of the form with projecting portions of unequal extent, the shorter one of said projecting portions being flared away from the other projecting portion to provide a longitudinal groove adapted to receive a seam in the hosiery.

2,661,878
PATCH HOLDING DEVICE
Anna Janssens, Chicago, Ill.
Application July 25, 1950, Serial No. 175,777
4 Claims. (Cl. 223—100)



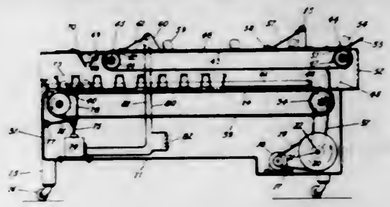
1. In a fabric-mending frame assembly, a larger frame and a smaller frame, said frames being dimensioned for nesting one with the other, the interior of said frames being freely open, each such frame having a circumferentially extending wall member and a flange extending outwardly from each end of and substantially perpendicular to such wall member, the flange on one end of the smaller frame being of greater outward extension than the flange on the other end thereof, the greater flange on the smaller frame having a diameter greater than that of the wall member of the larger frame, the lesser flange on said smaller frame having a diameter less than that of the wall member of the larger frame, the wall members of said frames, when the frames are nested, being spaced apart a distance less than the width of said greater flange but greater than the width of said lesser flange, said lesser flange on said smaller frame terminating in close proximity to the wall member of the larger frame and positioned to frictionally engage a fabric supported by said larger frame and disposed between the frames.

2,661,879
TRANSPORTING CARRIER FOR CARTONS AND THE LIKE
Robert E. Lee, Herndon, Va., and Cletus A. Benden, Washington, D. C.
Application November 13, 1950, Serial No. 195,432
5 Claims. (Cl. 224—45)



1. In a carrier of the character described, the combination with the platform adapted to have the bottom of a container rest thereupon, a standard secured to extend upwardly from the platform and having a handle at its upper end whereby the carrier may be transported in suspended position, a container gripping device slidably mounted on the standard and adapted to be manually moved toward the platform into contact with the top of a container resting on the platform, of a compression spring surrounding the standard and positioned to bias said gripping device to slide toward the handle on the standard, releasable locking means carried by the gripping device and formed and positioned to freely slide on the standard when said gripping device is moved toward the platform against the pressure of said spring, and normally biased by said spring to grip the standard and hold the gripping device against movement toward said handle when manually exerted depressing pressure is released from said gripping device, and a finger-piece associated with said locking means to release its gripping contact with the standard and allowing said spring to move said gripping device toward the handle on said standard.

2,661,880
BREAD PANNING MACHINE
Herbert C. Rhodes, Portland, Oreg., assignor to Read Standard Corporation, a corporation of Delaware
Application July 20, 1948, Serial No. 39,626
3 Claims. (Cl. 226—2)

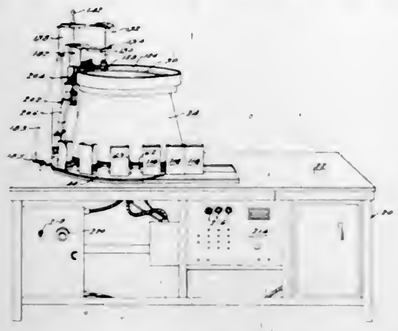


3. In a bread panner embodying a pair of conveyors arranged in superposed spaced relation, a pair of spaced members extending above the topmost conveyor, a shaft supported in said members transversely of said conveyor, a gate having one end affixed to said shaft and the other end engageable with said conveyor, a trough positioned above the lower conveyor and at an end of the topmost conveyor for receiving a roll of dough from the topmost conveyor, one side of said trough being movable to facilitate the ejection of a roll of dough towards said lower conveyor, said lower conveyor being adapted to carry a plurality of pans to receive rolls of dough from said trough, a rock shaft affixed to the movable side of said trough, a crank on said rock shaft, a link secured to said crank, a lever having one end secured to said link and the other end secured to the shaft supported in said members, said shaft connected to the movable side of said trough through said lever, link and crank for actuating same contemporaneous with each raising of said gate by a roll of dough carried by said topmost conveyor.

2,661,881
AUTOMATIC PART LOADING MACHINE
Cass S. Kasper, Grosse Pointe, Mich.
Application October 8, 1951, Serial No. 250,297
14 Claims. (Cl. 226—2)

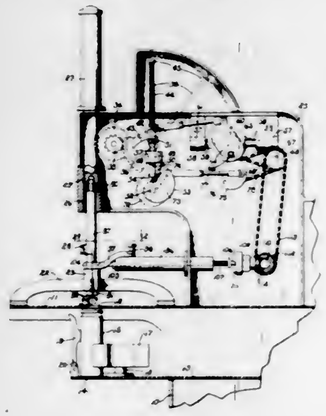
8. An automatic part loading machine comprising a supporting member, a hopper mounted on said supporting member adapted to receive a quantity of said parts, means defining a ramp extending from said hopper, means for feeding said parts from said hopper and upwardly along said ramp to a counting station, means mounted on said supporting member for accurately counting said parts when said parts are properly positioned relative to said ramp as they reach said counting station, means disposed along said ramp inter-

mediate said hopper and said counting station and adjacent said counting station for removing from said ramp any of said parts not moving



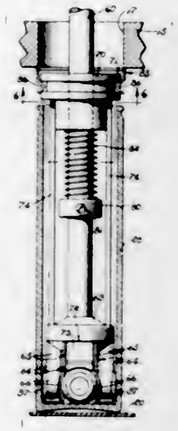
therealong in single file and not properly positioned relative to said ramp, and chute means for receiving the counted parts and delivering them to a loading station.

2,661,882
PACKING APPARATUS
Marshall E. Francisco, San Jose, Calif.
Application September 18, 1952, Serial No. 310,198
8 Claims. (Cl. 226—14)



7. In a packing apparatus adapted simultaneously to place a plurality of articles in predetermined arrangement in a container therefor and to urge the articles outwardly against sides of the container into pressed engagement thereagainst comprising a mounting member mounted for reciprocal movement between a predetermined loading station and packing station, pairs of resilient fingers mounted on the mounting member in substantially circular arrangement and extended therefrom, the fingers of each pair defining an article holding receptacle therebetween having a discharge path extended away from the mounting member and directed outwardly away from the other pairs of fingers, the fingers being disposed within a container when the mounting member is at its packing station and being retracted from the container when the mounting member is in its loading station, and means for retaining articles borne by the fingers within the container upon return movement of the mounting means to loading station whereby the fingers are withdrawn from the articles and by their outwardly directed pathways force the articles outwardly into pressed engagement with the sides of the container.

2,661,883
AUTOMATIC PACKING APPARATUS
Marshall E. Francisco, San Jose, Calif.
Application April 5, 1950, Serial No. 154,099
14 Claims. (Cl. 226—16)

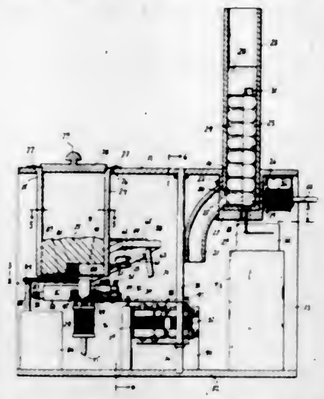


1. A packing device, adapted simultaneously to place a plurality of articles in predetermined circular arrangement in a container therefor and to urge the articles radially outwardly in their circular arrangement, comprising an elongated rod, a spreader having an enlarged end portion endwardly extended from the rod, a plurality of fingers endwardly extended from the rod in a circular arrangement concentrically of the spreader adapted to receive articles therebetween, means mounting the rod and endwardly reciprocating the same between a loading station and a packing station, and means responsive to endward reciprocation of the rod for restraining the articles at the packing station upon return movement of the rod therefrom while the fingers are withdrawn from the articles and the enlarged end of the spreader is withdrawn from between the circular arrangement of said articles urging said articles radially outwardly of their circular arrangement.

2,661,884
CAPSULE-FILLING DEVICE WITH CAPSULE HOPPER FEED
Gerald B. Lawrence, New York, and Jules A. Huberman, Brooklyn, N. Y.; said Lawrence assignor to said Huberman
Application January 3, 1951, Serial No. 204,108
10 Claims. (Cl. 226—41)

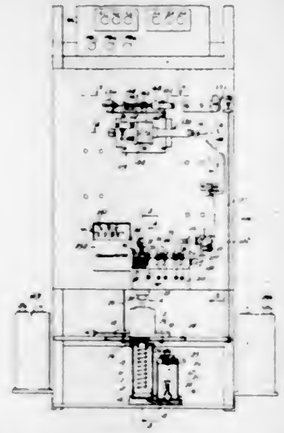
7. In a capsule filling device, in combination, a magazine adapted to receive a series of capsules, ejector means for discharging one capsule at a time from said magazine, support means movable to convey a discharged capsule toward a filling point, timer means controlling the operation of said ejector means and of said support means, a starting circuit for said timer means, and switch means for closing said starting circuit, said switch means being provided with

feeler means extending into said magazine and causing the closing of said starting circuit in



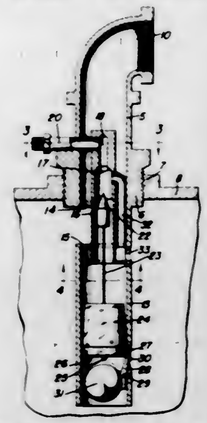
response to the presence of a capsule in said magazine.

2,661,885
APPARATUS FOR CHARGING LIQUID PRODUCTS AND VOLATILE PROPELLANTS INTO PRESSURE CONTAINERS
Douglas M. McBean, Rochester, N. Y., assignor to Carter Products, Inc., a corporation of Maryland
Application March 4, 1950, Serial No. 147,588
24 Claims. (Cl. 226—70)



1. Apparatus for charging a liquid product and a volatile propellant into a pressure-tight container having an opening controlled by a valve which comprises, means for opening the valve, a vacuum pump for evacuating the container, means responsive to the evacuation of the container for regulating the degree to which the container is evacuated, a metering device for introducing a measured charge of liquid product into the container through the valve controlled opening, a metering device for introducing a measured charge of propellant in liquid phase into the container through the valve controlled opening, and means responsive to the vacuum regulating means for permitting operation of the metering device only after the pressure in the container has been reduced to a predetermined degree below atmospheric pressure.

2,661,886
ENGINE FUEL TANK FILLER
Douglas D. Speer, Marysville, Wash.
Application November 1, 1950, Serial No. 193,427
3 Claims. (Cl. 226—116)



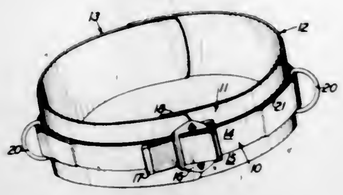
1. A tank filler comprising a fitting for attaching a filling hose to a tank filling opening, said fitting extending downwardly into the tank and having an opening in one side of its inner end, a partition in the inner end of the fitting below said opening to divert liquid entering the fitting outwardly through the opening in the tank, a valve housing in the fitting having an open lower end below the partition, a valve seat in the valve housing, means for attaching a suction line to the valve housing above the valve seat, an air passage leading from the upper portion of the tank to the valve housing below the valve seat for evacuating air from the tank, a float-controlled valve in the housing for closing the valve seat and including a float, a catch holding the float in a lowered position, and a second float locking the catch in engagement with the first float.

2,661,887
PORTABLE AND ADJUSTABLE PACKING TABLE
Stephen Yalick and John Yalick, Dallas, Pa.
Application March 29, 1951, Serial No. 218,165
1 Claim. (Cl. 226—129)



A packing stand including an elongated bin for containing articles to be packed and slanting downwardly endwise to lower one end thereof for gravity feed of the articles toward said end, legs supporting said bin and including a pair of corner legs at the lower end of the bin, a cross-bar slidably connected to said pair of legs for vertical adjustment thereon, a table at said lower end of the bin for supporting containers in which articles taken from the lower end of the bin are to be packed and wrapped, said table being narrower than said bin, and means slidably supporting said table at one end thereof on said cross-bar for adjustment laterally of said bin to opposite sides of the bin and for adjustment vertically by vertical adjustment of said bar, said means comprising depending clamps on said table slidable along said bar.

2,661,888
SAFETY BELT CONSTRUCTION
Paul E. Sidlinger, Cedar Rapids, Iowa
Application October 11, 1950, Serial No. 189,608
1 Claim. (Cl. 227—49)



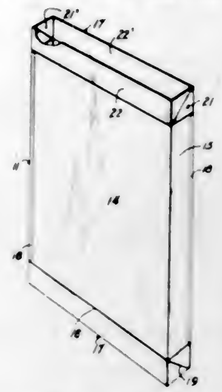
An adjustable safety belt comprising an outer belt portion and an inner belt portion, said outer belt portion comprising two belt sections of equal length, each section having a belt fastening means at one end and terminating in a tongue at the other end, the tongue of one section being fastened in the belt fastening means of the other section so that said fastening means are positioned 180 degrees apart on the waist of the user, said inner belt portion being of substantially greater width than said outer belt portion and comprising two sections of equal length, each inner section being attached coextensively to an outer belt section with one end adjacent the outer belt tongue and free thereof, each of said assembled belt sections being provided with anchoring means for attachment to a safety device, said anchoring means being positioned symmetrically relative to said fastening means whereby said anchoring means may be positioned symmetrically at all adjustments of the belt on the wearer.

2,661,889
THERMAL COFFEE CUP
Delbert E. Phinney, Sherman, Tex.
Application July 20, 1948, Serial No. 39,775
1 Claim. (Cl. 229—14)



In an insulated container jacket, the combination which comprises an outer frusto conical-shaped sleeve and an inner corrugated lining having a plurality of open vertically disposed separated channels therein with both the upper and lower ends of said channels open, and with the inner surface of the lining also frusto conical-shaped, and a cup-like frusto conical-shaped container the upper and lower ends of which are rolled inwardly with a closure permanently secured in the lower end, an outer ring having a bead with a groove in the inner surface around the upper end of the container and a cap secured in the groove of said ring.

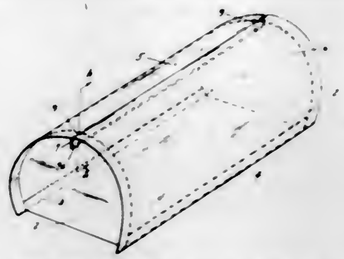
2,661,890
BOX CONSTRUCTION
William Stastny and Paul Kostelancik, Chicago, Ill., assignors to Lanzit Corrugated Box Company, Chicago, Ill., a corporation of Illinois
Application January 21, 1950, Serial No. 139,846
1 Claim. (Cl. 229—23)



A box fabricated from two like halves, said halves each comprising a substantially rectangular sheet, a score line in each sheet parallel to and spaced inwardly from one of its longitudinal edges to define a main panel and a side panel on one edge thereof, parallel transverse score lines in each sheet one spaced inwardly from each transverse edge a distance corresponding to the spacing of the longitudinal score line from the aforesaid longitudinal edge to define an end panel on each end of the main panel, said transverse score lines intersecting the longitudinal score line to define with said longitudinal score line corner flap portions, said sheets being folded along all of said score lines so that each sheet comprises a main panel, and a perpendicular side panel and a pair of perpendicular end panels, a diagonal score line in the flap portions of each sheet, strips overlying and securing together complemental longitudinal edges of the main panels and of the side panels when the sheets are folded along the longitudinal score lines and arranged in a box-like formation with the free edge of the side panel on one sheet abutting the free edge of the main panel on the other sheet, said box-like formation being closed at its ends when the respective end panels are folded one over the other, said diagonally scored end flaps being tucked beneath the respective end flaps, and means to secure the box closed.

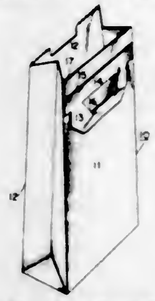
2,661,891
CARTON
Edmund V. Arranga and Anthony J. Malley, Syracuse, N. Y.
Application January 9, 1950, Serial No. 137,596
3 Claims. (Cl. 229—30)

1. A carton, comprising a body composed of a flat bottom member having end members foldable upwardly therefrom to a position perpendicular thereto, flexible cover members laterally extended from the respective opposite sides of the bottom member and foldable over the adjacent end members, and foldable flaps on the free edges of the cover members adapted to be interlocked with the end members, said end members having relatively narrow slots extended inwardly from the free edges thereof for snugly receiving therein both flaps of the cover members, one of the cover members having apertures therein adjacent to its flap for positive interlocking engagement with the corners of the end members at the outer ends of the respective slots to hold the end members perpendicular to the bottom member, and the length of the free peripheral edges of the respective end members from the base member to the corners aforesaid at



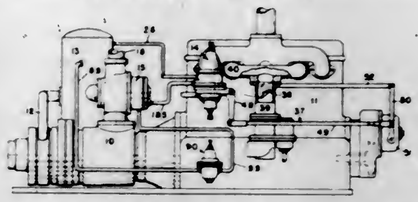
the outer ends of the slots being slightly greater than the distance from the bottom member to the apertures in the last-mentioned cover member so that the latter cover member will be maintained under tension stress engagement with the peripheral edges of the end members when positively interlocked with the end members as aforesaid.

2,661,892
BAG AND HANDLE
Glengarry D. King, Oakland, Calif., assignor to Crown Zellerbach Corporation, San Francisco, Calif., a corporation of Nevada
Application March 27, 1950, Serial No. 152,108
3 Claims. (Cl. 229—54)



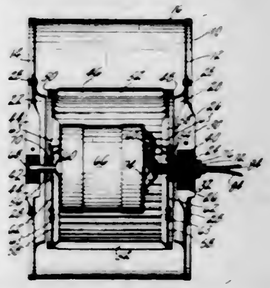
1. As an article of manufacture, an open-topped bag formed of paper-like sheet material and having two opposite side walls, and a handle and closure member secured to the outer face of one of said side walls adjacent the top of said bag, said member comprising an elongated substantially rigid base portion having a substantially flat side which is secured to said bag wall with said base portion substantially parallel with the top edge of said wall and spaced from said side wall top edge to provide a free edge portion of said walls to be folded over in back of said base portion in closing said bag, a support portion substantially rigid with said base portion and extending substantially in the plane of said base portion from the longer edge of said base portion opposite from the top edge of said bag wall, and a handle portion connected to said support portion and spaced from said base portion, whereby after folding the free top edge portions of said side walls over in back of said base portion the lifting of said handle portion will invert said base portion and fold said side walls over to close and support said bag.

2,661,893
CONTROL DEVICE FOR FLUID COMPRESSORS
John Le Valley, Painted Post, N. Y., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application August 10, 1950, Serial No. 178,619
6 Claims. (Cl. 230—3)



1. The combination with a fluid compressor driven by a motor, of a control device comprising a regulator responsive to variations in discharge pressure of the compressor over a predetermined discharge pressure range for controlling the speed of the motor, a valve for controlling the flow of fluid through the compressor, and means connected to and actuated by the regulator for actuating said valve in response to variations in discharge pressure of the compressor over a predetermined pressure range having one limit intermediate the limits of the first said range.

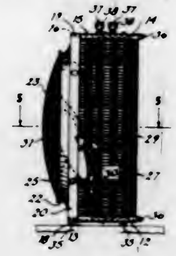
2,661,894
BLOWER WHEEL AND SUPPORTING AND DRIVING MEANS THEREFOR
Glenn M. Stevenson, Long Beach, and William F. McFarlane, Maywood, Calif., assignors to The Torrington Manufacturing Company—Western Division, Los Angeles, Calif., a corporation of California
Application May 31, 1951, Serial No. 229,116
12 Claims. (Cl. 230—117)



1. In combination, two longitudinally spaced axially aligned bearings, means for supporting the bearings in normally fixed relationship with each other, a blower wheel located between the bearings and having centrally apertured hubs at opposite ends thereof, the blower wheel hub at one end being engaged with and rotatably supported by the corresponding adjacent bearing, an electric motor located within the blower wheel and comprising a nonrotary external frame and also comprising a rotary central drive shaft which projects at the end of the motor opposite the last said hub and which extends through the other hub and engages the corresponding adjacent bearing, the said shaft by reason of its engagement with the last said bearing serving to support the motor at the corresponding end thereof and also serving to support the last said blower wheel hub, means for connecting the last said hub with the

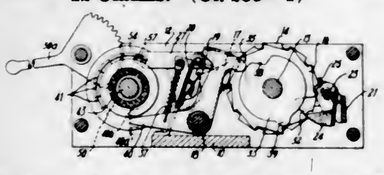
said shaft to enable the shaft to drive the blower wheel, and a nonrotary motor support rigidly connected with the nonrotary external motor frame at the end thereof opposite the said projecting shaft and extending through the said bearing engaging hub of the blower wheel.

2,661,895
POWER DRIVEN AIR CIRCULATING FAN
Edward J. Frick, Fairview Park, Ohio, assignor to Air Controls, Inc., Cleveland, Ohio, a corporation of Ohio
Application September 23, 1950, Serial No. 186,389
3 Claims. (Cl. 230—259)



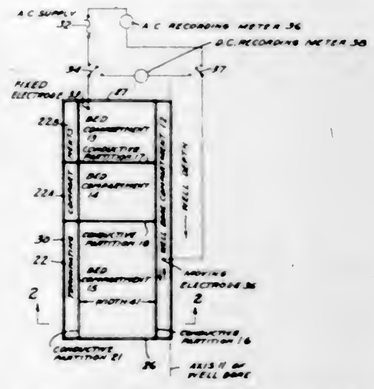
1. A portable electric fan including, a casing formed of relatively thin material having top and bottom walls formed of relatively thin sheet material, a front wall also formed on thin sheet material secured to said top and bottom walls and provided with an opening to permit air to pass therethrough, a continuous reticulate grille forming the side and rear walls of said casing, a rigid elongated motor support means secured to the opposed forces of said top and bottom walls, a motor secured to said support means and disposed between said front and rear walls in close proximity thereto, fan blades operatively connected to said motor, and feet projecting from the margins of said top and bottom walls for supporting said fan in a horizontal position on the rear wall with the fan axis perpendicularly disposed, said motor support means being positioned and arranged in such manner that it remains unflexed when the fan is thus disposed, whereby said motor is securely and rigidly supported in close proximity to said front and rear walls and said motor support means braces said top and bottom walls when the fan rests on the rear wall.

2,661,896
SERIAL NUMBERING MACHINE
Hans P. Luhn, Armonk, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 18, 1950, Serial No. 156,692
12 Claims. (Cl. 235—1)



1. In a numbering apparatus having a line of denominationally ordered numbering wheels, with each wheel having ten digit representing positions, mechanism for causing advance of said wheels to successively represent the values of the arithmetic progression whose difference is unity, a key wheel coaxial with said line of numbering wheels and having ten digit representing positions, means controlled by the units numbering wheel and normally effective for each unit advance of the numbering wheels for causing a two-position advance of the key wheel, and means controlled jointly by the units and tens order numbering wheel for causing an additional one-position advance of the key wheel when said two numbering wheels represent fixed predetermined values.

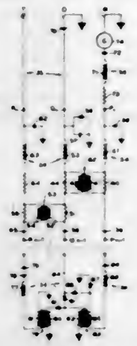
2,661,897
ELECTRICAL ANALOGUE
Gerhard Herzog and Burton D. Lee, Houston, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 10, 1949, Serial No. 98,268
9 Claims. (Cl. 235—61)



2. In a potentiometric model including a system of electrodes disposed in a pool of electrolyte intended to represent a medium of relatively great extent in at least one direction measured from the electrode system and a container in which the pool is disposed, the combination which comprises a boundary wall confining disproportionately the pool in said direction, and means for establishing at substantially each point on the boundary wall a current flow of the same magnitude and direction as would exist at the equivalent point if the boundary wall were disposed proportionately from the electrode system, said means comprising a large plurality of conductors crossing said boundary wall, and a mesh network connecting the conductors.

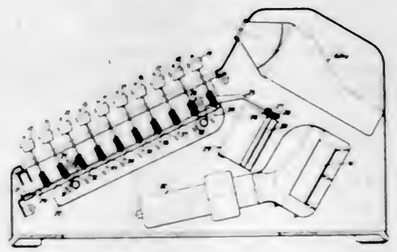
2,661,898
PUMPING SYSTEM ANALOGUE
Frank Wm. Bubb, Webster Groves, Mo., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 8, 1951, Serial No. 204,926
15 Claims. (Cl. 235—61)

1. In apparatus for electrically simulating a segment of a downhole pumping unit including a tubing segment, a rod segment, and an oil column segment, in combination, an electrical line for each of said segments, each line including a condenser representing displacement of the segment, an inductance representing the inertia of the segment, and a voltage source representing the weight of the segment, a resistance in the rod line, a resistance in the tubing line, a pair of resistors in the oil line, a coupling circuit interconnecting one of said pair of resistors and the tubing line resistance to simulate viscous drag between the tubing segment and the oil column segment, a coupling circuit interconnecting the other of said pair of resistors and the rod line resistance to simulate viscous drag between the



rod segment and the oil column segment, and a rectifier connecting the oil line to a point maintained at a reference potential to prevent the oil line voltage from falling below said reference potential.

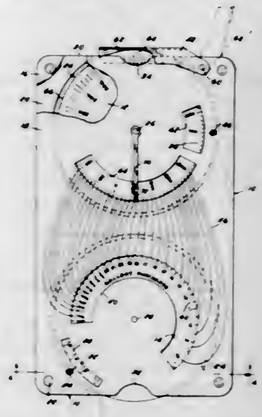
2,661,899
ELECTRONIC CALCULATOR
Benjamin J. Chromy, Washington, D. C., and Philip H. Allen, Orinda, Calif.
Application July 12, 1946, Serial No. 683,200
33 Claims. (Cl. 235—61)



32. An electronic calculator comprising in combination an electrical device for producing a series of incremental electrical pulses corresponding to certain predetermined ordinal values, a plurality of registering devices responsive to individual electrical pulses irrespective of the rates at which said pulses are produced by said electrical device, a switching device comprising an electrical discharge device connected between said electrical device and said registering devices, and a timing device comprising a second electrical discharge device for controlling the generation of pulses by said electrical device and for controlling said first mentioned electrical discharge device for entry of each series of incremental electrical pulses into any selected one of said registering devices.

2,661,900
MILEAGE CALCULATOR
Ernest W. Pastorius, Windsor, Ontario, Canada
Application August 15, 1951, Serial No. 241,937
5 Claims. (Cl. 235—74)

1. A fuel mileage calculator comprising a supporting member and two circular discs pivotally supported by means of spaced apart pivots on the face of said supporting member, one of said discs having thereon a circular scale of equally spaced units indicative of mileage readings, the other disc having two separate circular scales arranged concentrically thereon, said last two mentioned scales being logarithmically calibrated but being in reverse ratio relative to one another, one of said last two mentioned scales being indicative of the total fuel consumed and the other scale being indicative of the distance traveled per unit of fuel consumed, said supporting member having a fixed indicator thereon associated with the scale on the first mentioned disc, said supporting member having a plurality of spaced lead lines thereon extending from around the periphery of the first scale to the periphery of the scale indicative of fuel consumption so that, when the two discs are rotated to desired positions, a mileage value

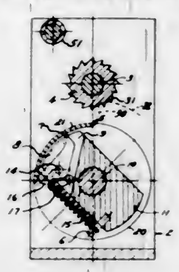


on the first scale may be visibly associated with a value of the number of units of fuel consumed on the fuel consumption scale, and a second fixed indicator on said supporting member associated with the scale on the second disc indicative of the distance traveled per unit of fuel consumed, said two scales on said second disc being positioned circumferentially relative to one another such that, when the first disc is rotated to a position wherein said first indicator designates a given initial mileage reading and the second disc is positioned to align the value of the particular number of units of fuel consumed with the associating means aligned with the value on the first scale corresponding to the subsequent mileage reading, said second indicator designates on its associated scale on the second disc the distance traveled per unit of fuel consumed.

2,661,901
COUNTER TO INDICATE THE NUMBER OF TIMES A SHAFT IS MOVED
Hercheal Wood Miller, Davenport, Iowa, and Benjamin Alvin Buss, East Moline, Ill., assignors to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware
Application July 25, 1951, Serial No. 238,526
2 Claims. (Cl. 235—91)

1. A counter adapted to register the number of times a shaft is turned from its initial position beyond a preset angle having, in combination, a spindle assembly including a ratchet disc and pointer, means biasing said spindle assembly to turn in one direction, means engaging the teeth of said disc to hold said spindle assembly in any

position to which it has been advanced against said biasing means, a shaft parallel to said spindle assembly, a pawl-carrier attached to said shaft, a pawl pivoted on the carrier, a spring on the carrier pushing the pawl outward toward said ratchet disc, and a stationary barrier restraining the outward movement of the tip of



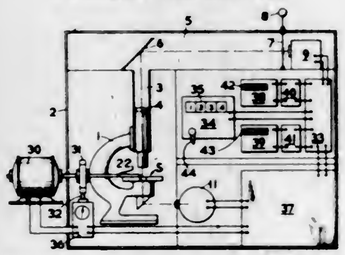
said pawl until said shaft assembly has been turned beyond a preset angle, whereupon the path of said pawl tip intersects the circular path of the teeth of said ratchet disc over a distance sufficient to move said spindle assembly each time said shaft is turned beyond a preset angle through a unit arc that is unaffected by any additional angle through which said shaft is turned.

2,661,902

APPARATUS FOR COUNTING MICROSCOPIC PARTICLES

Heinz Siegfried Wolff, Oxford, and Marjorie Grace Story and Derick Jacob Behrens, Strand, London, England, assignors to The National Research Development Corporation, London, England

Application January 10, 1951, Serial No. 205,278
Claims priority, application Great Britain January 10, 1950
5 Claims. (Cl. 235—98)



1. Apparatus for counting bodies in a state of random distribution on a surface comprising, means for scanning a plurality of long strips of different widths on said surface, a detector associated with said scanning means for producing an electrical pulse in response to each body and to each part body appearing in the scanned strips, and means for counting the pulses in the strips of each width.

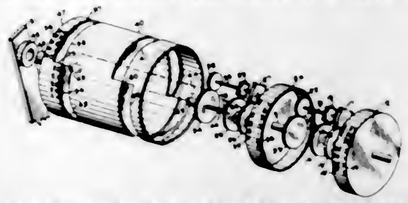
2,661,903

NAVIGATION COUNTER

Frank P. Goldbach, Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York

Application February 4, 1950, Serial No. 142,476
7 Claims. (Cl. 235—117)

1. A counter comprising, a shaft the units of rotation of which are to be counted, a first counter stage operatively associated with said shaft for rotation thereby, said first counter stage including an indicia member bearing a pair of indicia scales positioned adjacent each other, one of said indicator scales bearing numerical indicia increasing in one direction from zero to a first maximum and the other of said scales bearing numerical indicia increasing in the other direction from a preselected value numerically greater than zero to a second maximum which is greater than said first maximum by said preselected value, a second counter stage, transfer mechanism operatively associated with said first



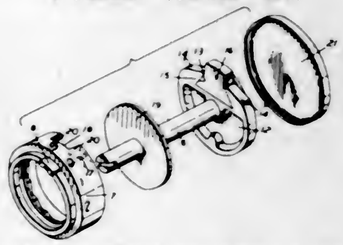
and second counter stages to advance said second counter stage step by step in response to predetermined rotation of said first counter stage, said second counter stage including an indicia member bearing an indicia scale the numerical value of which increases in opposite directions from a selected value, a mask integral with said second counter stage superposed over said first counter stage having offset transparent portions positioned opposite the pair of indicia scales on the indicia member of said first counter stage for rendering one or the other of said pair of indicia scales selectively visible.

2,661,904

COUNTING DEVICE

Hans Bud, London, England

Application December 12, 1950, Serial No. 200,357
Claims priority, application Great Britain December 21, 1949
9 Claims. (Cl. 235—117)



1. A counting device comprising a plurality of digit wheels, a rotatable spindle, a disc on said rotatable spindle and rotatable therewith, said disc having a recess, a block of resilient material held in said recess, a portion of said block of resilient material protruding radially from said recess beyond said disc, and a shoulder on one digit wheel, said shoulder having another recess engaging the protruding portion of the block of resilient material.

2,661,905

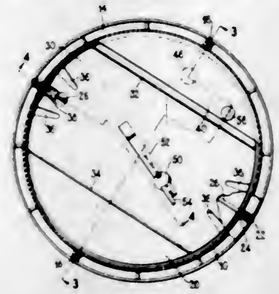
DAMPER FOR FURNACE FLUES

Walter P. Osgood, Malden, Mass., assignor to Boston Machine Works Company, Lynn, Mass., a corporation of Massachusetts

Application January 17, 1950, Serial No. 139,029
1 Claim. (Cl. 236—45)

A damper for a furnace flue comprising a circular frame a disc fitted therein in a normally

vertical plane and pivotally mounted to rock about a diametral axis, a segment-shaped partition mounted within said frame behind the upper portion of said disc to form with said upper portion a shallow chamber, a bracket member projecting at a skew angle from the rear face of



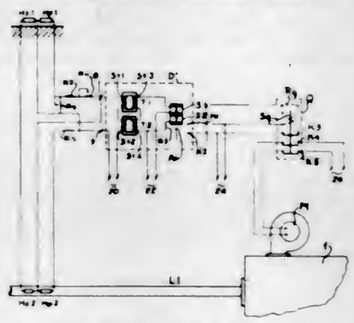
said disc, a counterweight mounted on said bracket, and a resilient stop element extending through said partition and engaged by said disc when the disc is in its normal position and by said bracket member when the disc is at right angles to its normal position.

2,661,906

AUTOMATIC CONTROL ARRANGEMENT IN CENTRAL HEATING SYSTEMS

Gösta E. Ståhlberg, Solna, Sweden, assignor to Societe d'Investigation & d'Exploitation de Brevets, Tangier, Morocco

Application July 18, 1951, Serial No. 237,454
Claims priority, application Sweden April 27, 1951
13 Claims. (Cl. 236—91)



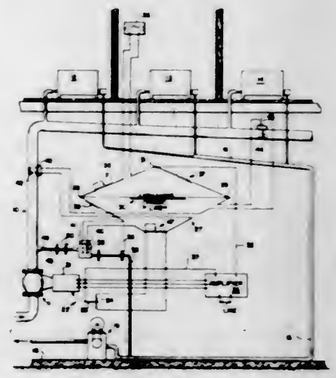
11. Apparatus for setting a control member in response to conditions in the atmosphere, said member being adapted to control the temperature of a fluid flowing in a conduit, said apparatus comprising a first pair of temperature responsive electrical elements positioned to be responsive to the temperature of the fluid in said conduit, a second pair of temperature responsive electrical elements positioned to be responsive to a temperature outside of and displaced from said conduit, electrically operated means, and an electrical circuit including one of said first and one of said second electrical elements being connected in series, the other of said first and the other of said second electrical elements being connected in parallel and said electrical elements being connected in series with said electrically operated means across a power supply, said electrically operated means acting in response to current flowing through said electrical elements to set said control member in response to changes in the temperature of said electrical elements.

2,661,907

CONTROL APPARATUS FOR STEAM HEATING SYSTEMS

Vernon D. Wiesmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application March 30, 1951, Serial No. 218,294
3 Claims. (Cl. 237—9)



1. In a steam heating system including heat exchange means for a space and having a source of steam and a return means, means for controlling the supply of steam from said source, pump means for insuring the return of condensate through said return means and for determining the return means pressure, said return means being of such nature that under at least some conditions of operation the condensate in the return means is sub-cooled, a chamber connected to said return means in such manner that the pressure therein corresponds to that in said return means, a restricted conduit connected between said source of steam and said chamber, said conduit including sufficient heat exchange surface to condense a portion of the steam supplied to said chamber from said source, means responsive to the temperature of the steam supplied from said source, means responsive to the temperature in said chamber, and means connecting both of said temperature responsive means in joint controlling relation to said means controlling the supply of steam, said connecting means being arranged to control said supply controlling means in a manner to maintain a predetermined difference in temperature between the temperature responsive means of said supply and of said chamber, said connecting means including means for varying said predetermined temperature difference.

2,661,908

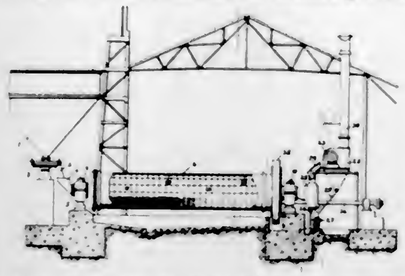
AIR SWEPT TUBE MILL WITH POCKETED LINER STRUCTURE FOR AUTOMATIC CLASSIFICATION OF GRINDING BODIES AND GROUND MATERIAL

Jean A. Siegten, Brussels, Belgium

Application May 8, 1950, Serial No. 160,783
1 Claim. (Cl. 241—45)

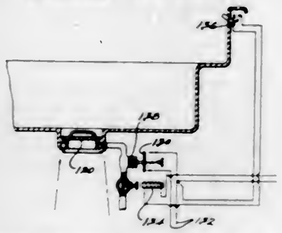
A mill for crushing and grinding material, which comprises an elongated cylindrical member containing a crushing chamber and a grinding chamber adjacent each other and arranged for free flow of material from the crushing chamber into the grinding chamber, an inlet for admission of material into the crushing chamber, an outlet for material from the grinding chamber, means for rotating the cylindrical

member, a series of frusto-conical liners in the grinding chamber, grinding bodies on the liners, the grinding bodies on the successive liners diminishing in size progressively toward the material outlet, means for causing a current of air to enter the crushing chamber through the inlet, flow through the two chambers, and exhaust through the outlet, and a plurality of pockets in each liner each having an opening through which ground material may enter the pocket, when the pocket is at the bottom of the grinding chamber, and may be discharged there-



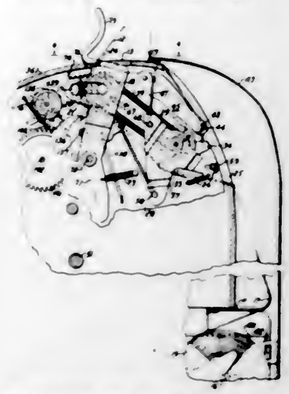
from when the pocket is at an upper portion of the grinding chamber, the material discharged from each pocket entering the air stream, screening means extending across the openings into said pockets to restrict the size of ground material which may enter the pockets, whereby some sufficiently ground material is carried out of the chamber and insufficiently ground particles are advanced and are deposited on the frusto-conical liners nearer the outlet than the liner containing the pocket from which they were discharged.

2,661,909
GARBAGE DISPOSAL APPARATUS
Kemper M. Hammell, Bloomington, Ill., assignor to Eureka Williams Corporation, Detroit, Mich., a corporation of Michigan
Original application August 22, 1946, Serial No. 692,185. Divided and this application November 12, 1949, Serial No. 133,361
6 Claims. (Cl. 241—46)



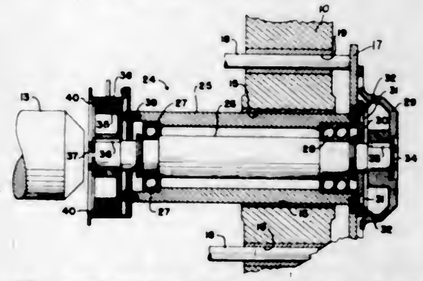
1. Garbage disposal apparatus for a sink comprising a chamber having electric motor operated means for reducing the garbage, a water line for supplying water to said chamber including a valve for opening and shutting off said supply of water, a solenoid for operating said valve, an electric circuit for energizing said solenoid to open said valve, a switch for opening and closing said circuits, an electric circuit for said motor including a pressure operated switch operable responsive to pressure in said water line on the downstream side of said valve for closing said motor circuit when said valve is open, said chamber being provided with a water inlet, and a garbage inlet from said sink and a stopper for said garbage inlet adapted to be positioned to restrict but not to stop the flow of water from said water inlet to said chamber so as to set up back pressure in said water line for operating said pressure operated switch, said pressure operated switch being constructed to open upon removal of said stopper from said garbage inlet.

2,661,910
STRIP REWINDING MEANS
Chris A. Christoff, San Gabriel, Calif., assignor to Clary Multiplier Corporation, San Gabriel, Calif., a corporation of California
Application December 18, 1950, Serial No. 201,418
5 Claims. (Cl. 242—55)



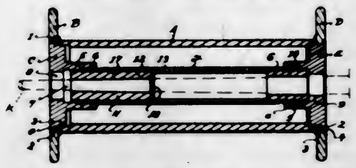
1. In a recording machine, the combination with a mandrel for rolling a strip thereon, and means rotatably supporting said mandrel, of a drive element for said mandrel, a shaft supporting said drive element for rotation coaxially of said mandrel and for axial movement relative to said mandrel, coupling means on said drive element and on said mandrel for transmitting a drive therebetween, a spring for urging said drive element toward said mandrel whereby to enable said coupling means, spring means for urging said drive element against one side of said shaft, said spring means being effective to create sufficient friction between said drive element and said shaft to prevent axial movement of said drive element by said spring while said drive element is at rest but ineffective to prevent axial movement of said drive element while said drive element is rotating.

2,661,911
ADAPTER FOR UNCOILERS
Carl T. Lanstrom and James E. Leaver, Concord, Calif., assignors to United States Steel Corporation, a corporation of New Jersey
Application December 5, 1951, Serial No. 260,036
4 Claims. (Cl. 242—78)



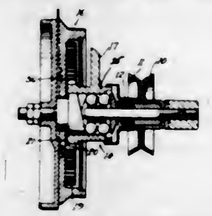
1. The combination with an uncoiler housing, which has a mandrel opening and carries a side guide plate, of an adapter comprising a sleeve received in said mandrel opening, a plate carried by the forward end of said sleeve and attached to said guide plate, a shaft rotatably mounted in said sleeve, a coil supporting head carried on the forward end of said shaft, and cooperable brake means carried on the rearward ends of said shaft and said sleeve.

2,661,912
DOUBLED BUSHED CENTER CORE BOBBIN
Lester F. Burlein, Honesdale, Pa., assignor to Cloverleaf-Freeland Corporation, Honesdale, Pa., a corporation of Pennsylvania
Application October 12, 1950, Serial No. 189,863
5 Claims. (Cl. 242—124)



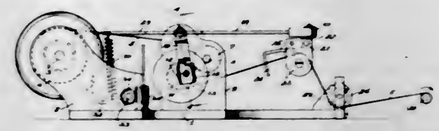
1. In a bobbin or spool, a hollow open ended barrel, a centrally apertured head at each barrel end, a centrally apertured insert extending through each head aperture into the barrel and adapted to hold its respective head on the barrel end, a hollow open ended center core extending through the barrel and having detachable connection with the inserts and forming a passageway inter-connecting the aperture of the inserts, a tubular open ended hollow bushing disposed in each end of the center core, the outer face of the side wall of each bushing at the outer end thereof being provided with spaced apart longitudinally extending grooves, and the ends of the center core being upset downwardly and wedged in said grooves whereby the bushings are held in the center core against longitudinal and rotative movement.

2,661,913
DAMPING MEANS FOR YARN TENSION COMPENSATING DEVICES
Edward J. Heizer, Mountain Lakes, and John Warwick, Livingston Township, Essex County, N. J., assignors to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application June 24, 1952, Serial No. 295,254
3 Claims. (Cl. 242—150)



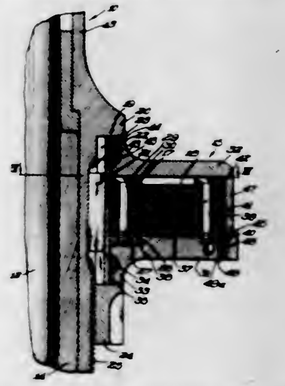
1. In a yarn tension compensating device, the combination of means for receiving yarn therebetween to control the tension thereof, a pair of relatively movable elements each having a surface adjacent the other, oscillating means responsive to the tension in the yarn for moving one of said elements and controlling said first mentioned means, and silicone grease between said surfaces serving to act like a lubricant when said surfaces are moved relatively slowly with respect to each other and serving a damp relative movement of said elements when an attempt is made to move said surfaces rapidly with respect to each other, whereby to minimize the amplitude of oscillation of said oscillating means.

2,661,914
TENSIONING MECHANISM FOR WINDING MACHINES
Melvin A. Thom, Brighton, N. Y.
Application June 5, 1948, Serial No. 31,237
15 Claims. (Cl. 242—156)



1. Tensioning mechanism comprising a supply reel for winding material, a rotatable tensioning roll having a frictional peripheral surface around which winding material passes as it is unwound from said supply reel, retarding means comprising a braking disk secured to the tensioning roll to rotate therewith and having a braking face in a plane at right angles to the axis of said tensioning roll, a brake shoe engaging the braking face of said disk and movable radially of said axis to vary the retarding action on the tensioning roll, a control device connected to the brake shoe acting to effect said radial movement, said control device including an element engaged by the winding material and movable thereby in one direction to move the brake shoe radially toward said axis to decrease the retarding action on the tensioning roll, and spring means actuating the brake shoe in the opposite direction to increase the retarding action on the tensioning roll.

2,661,915
AIRCRAFT LANDING WHEEL SHIMMY DAMPER
Bernard E. O'Connor, Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application June 4, 1949, Serial No. 97,231
20 Claims. (Cl. 244—103)

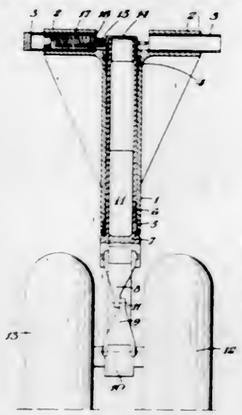


1. In combination in an aircraft landing wheel gear, a fixed strut, a wheel carrying member rotatably secured to the strut, a housing structure rotatably surrounding the strut, said housing structure having an annular chamber therein, a

set of disks stationary with and encircling the strut extending into said chamber, a second set of disks interleaved with said stationary disks and rotatable with said housing structure, and a connection externally of said strut between the housing structure and the wheel-carrying member for rotation of the housing structure with the wheel-carrying member, said chamber having a viscous fluid therein and said disks having opposed working surfaces operatively in shear film spacing with respect to said fluid so that rapid relative rotary movements of the disks are restrained by the shearing action of the fluid between the working surfaces of the disks.

15. In combination in an aircraft landing gear including a strut member and a wheel-carrying member relatively rotatably connected thereto, an annular housing structure externally surrounding and rotatable about one of said members, torque scissors means connecting the housing structure for joint rotation with the other of said members, and shimmy damping means within said housing structure.

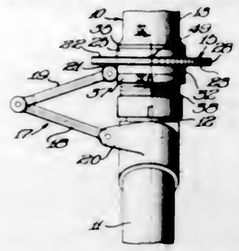
2,661,916
AIRPLANE LANDING GEAR
George Warrener Bryan, Warrington, England, assignor to Electro-Hydraulics Limited, Warrington, England, a company of Great Britain
Application February 13, 1950, Serial No. 143,993
6 Claims. (Cl. 244—103)



1. In aircraft landing gear having a wheeled undercarriage and a leg, said leg comprising an outer cylinder, an inner cylinder rotatably castored in said outer cylinder having relative longitudinal play with respect thereto and a tube extending from the undercarriage and slidable relatively to said cylinders; toggle means extending from said undercarriage having an oscillation-damping means coacting with said tube operative to increase the degree of damping through increase in vertical load on the leg.

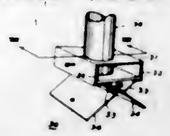
2,661,917
AIRCRAFT LANDING WHEEL SHIMMY DAMPER
Bernard E. O'Connor, Buffalo, and Benjamin Fuente, Hamburg, N. Y., assignors to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 11, 1950, Serial No. 200,218
4 Claims. (Cl. 244—104)

1. In a directionally adjustable aircraft landing wheel supporting structure of the type including a pair of relatively rotatable support members, a housing structure relatively rotatably surrounding one of said members, said housing structure having an annular chamber therein of very narrow axial spacing but of substantial diameter, a single resistance disk stationary with and encircling said member and extending into said chamber, the inner faces of the opposite axial walls of the housing structure providing a single pair of opposed working surfaces in parallel spaced relation to the opposing



surfaces of said single disk, and a connection externally of said members between the housing structure and the other of said members for rotation of the housing structure with said other member, said chamber having a viscous fluid therein and said opposed surfaces within the chamber and of said disk being operatively in shear film spacing with respect to the fluid so that rapid relative rotary movements of the housing with respect to said disk are restrained by the shearing action of the fluid between the surfaces of the chamber and the disk.

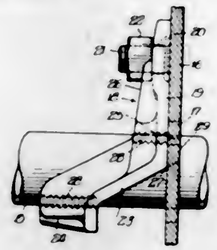
2,661,918
MAST MOUNTING BASE
Robert B. Riggs, Santa Barbara, Calif.
Application August 7, 1950, Serial No. 178,047
3 Claims. (Cl. 248—43)



3. A mast mounting base formed of sheet metal comprising a platform apertured to receive a mast; parallel sidewalls projecting downwardly from opposite sides of the platform; fixed supports connected to the lower ends of the sidewalls and converging until they substantially touch each other; securing plates yieldingly connected to the supports at the most converged portions thereof, each of said supports and its associated securing plate being formed of a single piece of sheet metal, said yielding connection being a bend in said sheet metal.

2,661,919
PIPE ANCHOR MEANS
Malcolm S. Johnson and Harold E. Ray, Chicago, Ill., assignors to Central Railway Supply Company, Chicago, Ill., a corporation of Illinois
Application December 20, 1948, Serial No. 66,244
1 Claim. (Cl. 248—56)

A pipe anchor comprising a rigid single piece metallic member provided with a flat faced elongated body portion apertured to receive fastening means for attachment to a supporting element and having an angularly disposed pipe supporting leg extending at a predetermined angle relative to the plane of said body portion with the juncture between the leg and body portion constituting a fulcrum point against the supporting element for tilting the leg upward; the anchor adjacent the fulcrum point having a pipe receiving passage whose axis normally is disposed outwardly and downwardly at a predetermined angle to the longitudinal axis of the pipe with the upper part of said passage formed to provide a relatively wide downwardly facing concaved pipe straddling portion and the lower part of the passage formed to provide a wide up-



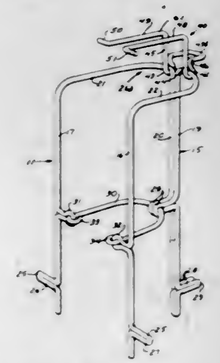
wardly facing concaved pipe supporting portion spaced lengthwise of the pipe from the downwardly facing portion, both portions having friction providing surfaces extending over a substantial distance lengthwise of the pipe, the vertical distance between the two mentioned portions approximating the diameter of the pipe when the body portion is secured in place, the axis of the pipe-receiving passage being moved toward parallel relation with the lengthwise axis of the pipe when the body is secured to the supporting element whereby frictional gripping engagement across the top and about the bottom of the pipe is provided.

2,661,920
IMPLEMENT HOLDING DEVICE
Benjamin F. Gochenour, Woodstock, Va.
Application February 26, 1951, Serial No. 212,826
2 Claims. (Cl. 248—113)



1. An implement holding device, comprising a bracket for attachment to a wall surface, a U-shaped member having a pair of parallel legs pivotally connected to said bracket, said U-shaped member providing a bight portion, a gripping block secured between said legs, said gripping block being positioned inwardly of the bight portion a suitable distance, defining a space for passage of a handle of an instrument, said gripping block having a facing of corrugated frictional material on the side opposite to the bight of the U-shaped member, the corrugations extending transversely with respect to the legs of the U-shaped member, and said bight portion being provided with a corrugated frictional material having extensions along respective legs of the U-shaped member and terminating in contacting engagement with said gripping block, the corrugations of the frictional material on said legs being at right angles to the corrugations on said gripping block.

2,661,921
GARBAGE CAN SUPPORT
Sam Brustein, Akron, Ohio
Application March 3, 1950, Serial No. 147,489
4 Claims. (Cl. 248—147)

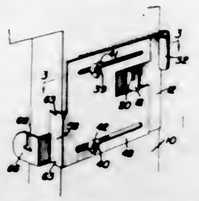


1. A garbage can or like support comprising a frame formed of relatively stiff, elongated material, upward extensions from free bottom ends of the frame material constituting laterally spaced front uprights, said front uprights being bent rearwardly therefrom at the top of the frame to provide laterally opposite can-retaining side rails, continuations of said opposite side rails extending downwardly at the rear of the frame and terminating at the bottom thereof to provide a rear supporting upright coextensive with said front uprights, means retaining together said downwardly bent continuations constituting said rear upright, said front and rear uprights having ground-engaging portions at the bottom of the frame and having looped portions formed therein to extend inwardly of the frame at a level intermediate said opposite side rails and said ground-engaging portions, said looped portions providing support for a said can received between said opposite rails, and a separate restraining member interconnecting said looped portions, at least the portion of said frame above said looped portions being open at the front between said front uprights unobstructedly to receive a garbage can from and toward said support thereof on said looped portions.

2,661,922
BLIND DRAPE AND CURTAIN ROD HOLDER
Charles E. Wolford, Seattle, Wash., assignor of fifty per cent to Emmett Faulkner, Farmington, Mo.
Application July 11, 1950, Serial No. 173,021
2 Claims. (Cl. 248—255)

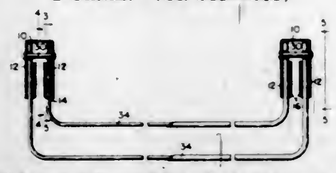
1. A multipurpose window fixture comprising a first plate, said plate being substantially square and having a lateral frame abutting and clamp-

ing flange on one longitudinal edge and provided on the same edge, adjacent one corner of the plate, with a cylindrical socket member, said socket member projecting in a direction from the plate opposite to that taken by said flange, a pair of bolts carried adjacent the opposite marginal edge of said plate, a tongue struck out from the median portion of the plate and notched to pro-



vide a bracket, a second plate slidingly and clampingly superimposed against said first plate and provided adjacent opposite marginal edges with elongated slots, said bolts extending respectively through said slots and being provided with clamping nuts, said nuts engaging the said second plate, said second plate being provided with integral flange means and said flange means being provided with integral bracket means.

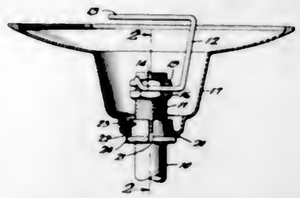
2,661,923
DOUBLE CURTAIN OR DRAPERY ROD BRACKET
Harry Meiners, St. Bernard, Ohio
Application May 1, 1951, Serial No. 223,948
1 Claim. (Cl. 248—263)



A double curtain rod bracket and rod assembly comprising a U-shaped body having a central web mounting portion and a pair of arms each of which arms includes outer, bottom and inner panels defining an open-topped, U-shaped curtain rod receptive channel spaced outwardly of and projecting at substantially a right angle to the mounting portion, a rigidifying rod joining said outer panels at a point between said mounting portion and bottom panels and spaced from said bottom panels a distance sufficiently wide to receive a curtain rod end therebetween, and a pair of curtain rods engageable between said rigidifying rod and bottom panels and having notches in upper end edge portions thereof cooperable with said rigidifying rod for retaining the curtain rods from direct outward movement relative to the bracket mounting portion, said notches in the curtain rod and portions being spaced from the ends of the curtain rods a distance substantially equal to the spacing between the rigidifying rod and the mounting portion.

2,661,924
CANOPY HOLDER
Melvin Charles Wilt, Hinsdale, Ill., assignor to Curtis Lighting, Inc., Chicago, Ill., a corporation of Illinois
Application July 6, 1949, Serial No. 103,246
2 Claims. (Cl. 248—345)

1. In a suspension device having a canopy with a smooth walled apron defining a central opening through which a hanger rod extends in closely spaced relation with the walls defining the opening, a retainer for establishing a connection between the canopy and the rod comprising a ferrule of resilient material having the form of a unitary split sleeve with an internal diameter slightly greater than the overall diameter of the rod, a tapered outer wall dimensioned to range from a diameter at one end which is less than



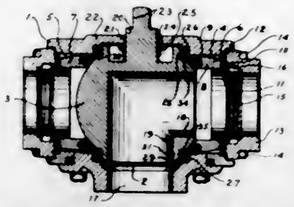
that of the opening to a dimension which is greater than that of the opening, and an annularly arranged bead on the end of larger diameter whereby upon sliding movement of the ferrule into the space between the walls defining the opening and the rod, the diameter of the ferrule is decreased to establish a gripping relation with the rod while supporting the apron on the outer surface thereof.

2,661,925
SEALING MEANS FOR FLUID VALVES
Richard C. Barkelew, Sierra Madre, Calif.
Original application February 28, 1948, Serial No. 12,003, now Patent No. 2,501,657, dated March 28, 1950. Divided and this application March 24, 1950, Serial No. 151,779
1 Claim. (Cl. 251—27)



A fluid valve comprising a body having a cylindrical chamber formed therein, a liquid port opening into the side of said chamber, a cylindrical liquid port opening into one end of said chamber axially of said chamber, said cylindrical liquid port being of lesser diameter than said chamber, to afford an annular shoulder at its juncture with said chamber, a raised valve seat on said shoulder around said cylindrical liquid port, a cylindrical valve disposed within said chamber constrained to move axially and non-rotatably therein, a recess of greater diameter than said seat sunk in the end of said valve member coaxially with said valve member, in such manner that said valve member can bottom on said shoulder with said raised seat received in said recess, a washer received in said recess, said washer overlying said raised seat, and being of lesser thickness than the depth of said recess, but of sufficient thickness to engage said raised seat when said valve is bottomed on said shoulder, an axially disposed screw carried by and projecting from the recessed end of said valve, a spacer sleeve around said screw between the head of the screw and said washer, and an O-ring around said spacer sleeve between said screw head and said washer, said O-ring being adapted to seatingly engage the cylindrical wall surfaces of said cylindrical port when said valve is moved to advance said screw and O-ring into said cylindrical port.

2,661,926
ROTARY PLUG TYPE VALVE
Robert B. Resek, Warrensville Heights, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application August 10, 1950, Serial No. 178,677
11 Claims. (Cl. 251—113)



1. A valve comprising a casing having a valve chamber and a port leading thereto, a valve plug mounted in said chamber and rotatable to selected angular positions, said plug having a sealing surface, a sealing element movably mounted in said port, a yieldable element holding the sealing element in engagement with the sealing surface of the plug in selected angular positions of said plug, and a cam surface on the plug engageable with said sealing element for moving said sealing element out of contact with said plug when the latter is moved to an angular position intermediate said selected positions.

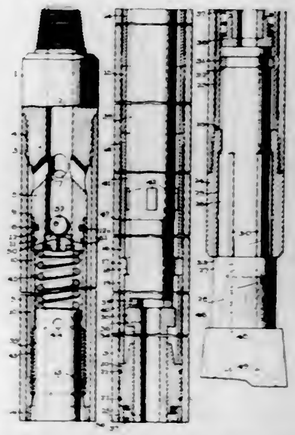
2,661,927
PORTABLE LOAD LIFTER
Harold J. Hulsart, Tuscaloosa, Ala.
Application August 14, 1950, Serial No. 179,217
6 Claims. (Cl. 254—10)



1. In a load lifter of the type which includes an elongated load supporting platform, a pair of legs adjacent each longitudinal side edge of the platform and one leg of each pair of legs being pivotally connected to the platform adjacent one end thereof, the opposite leg of each pair of legs being pivotally and slidably connected to the platform adjacent the opposite end thereof, and the legs of each pair of legs being pivoted together intermediate their ends to move about a common axis, means for moving the legs and raising or lowering the platform comprising toggle links carried by the platform adjacent the end thereof to which the legs are pivoted, said toggle links being connected to the opposite legs, nuts carried by the toggle links, a threaded bar threadedly engaging the nuts for moving the nuts and expanding or collapsing the toggle links, and a prime mover carried by the bar and operatively connected thereto for rotating said bar and moving the nuts.

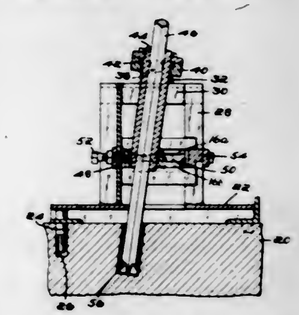
2,661,928
HAMMER DRILL
Edward Topanelian, Jr., Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application February 9, 1952, Serial No. 270,807
3 Claims. (Cl. 255—4.4)

1. A fluid-operated well-drilling mechanism comprising a tubular housing, an inverted cup-like cylinder longitudinally mounted in said housing, means affording operating fluid access to the interior of said housing below said cylinder, an elongate annular upper ram slidably disposed in and sealed against the inside of said cylinder and having a longitudinal central passage, an internal constriction in said housing below said upper ram and of diameter smaller than said upper ram, an elongate annular lower ram slidably disposed in and sealed against said con-



striction and having a longitudinal central passage and having spring-retaining means on the lower end of said lower ram, a compression spring between the lower side of said constriction and said spring-retaining means, means affording operating fluid access to the upper end of said lower ram, and a bit stem slidably disposed in and sealed against said housing and having a longitudinal central passage.

2,661,929
JIG FOR DRILLING KEY LEWIS SLOTS
Frans E. Aspelin, Nabnasset, Mass., assignor to H. E. Fletcher Company, West Chelmsford, Mass.
Application May 3, 1948, Serial No. 24,839
4 Claims. (Cl. 255—51)

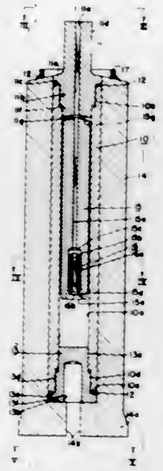


2. A drill jig comprising a base having a drill aperture formed therein, a frame extending above said base, bearing members located on two opposite sides of the frame, a drill guide mounted for rotation about a horizontal axis on the bearing members, a drill sleeve freely disposed in said drill guide, a slide member for engaging the lower end of the drill sleeve, and means for adjustably supporting the slide for movement between inner opposite surfaces of the said frame.

2,661,930
INTEGRAL BIT, ROPE SOCKET, AND JAR TOOL

Ferdinand J. Spang, Butler, Pa., assignor to Spang & Company, Butler, Pa., a corporation of Pennsylvania

Application May 17, 1950, Serial No. 162,552
14 Claims. (Cl. 255—63)



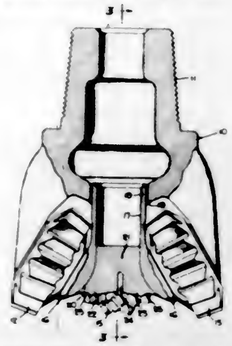
1. A unitary combined socket, jar and percussion drilling tool for the reciprocal drilling of a well bore which comprises, an integral longitudinally-extending body for the tool having a longitudinal bore portion therein, a fishing neck extending from the upper end of said body, a plurality of well bore cutting and guiding blades extending transversely-outwardly from said body in a spaced relationship with each other, a jarring element mounted for longitudinal reciprocation within the longitudinal bore portion of said body, a swivel cable socket positioned within said jarring element, a bore closure at the top of said longitudinal bore to limit reciprocation of said jarring element in an upper direction, a second bore closure within the longitudinal bore portion of said body adjacent the lower end thereof to limit reciprocation of said jarring element in the opposite direction, said body and said jarring element having transverse openings therethrough with respect to each other so that drilling fluid may be washed therethrough, said fishing neck, said jarring element and said cable socket having aligned longitudinally-extending bores therethrough for receiving a well cable to be attached to said socket to actuate the tool.

2,661,931
HYDRAULIC ROTARY ROCK BIT

Kenneth H. Swart, Whittier, Calif., assignor to Security Engineering Division, Whittier, Calif., a corporation of California

Application December 4, 1950, Serial No. 199,054
3 Claims. (Cl. 255—302)

1. A rock bit comprising a hollow body attachable to a drill stem and having legs extending downwardly therefrom, toothed roller cutters rotatably mounted against the inner sides of the legs, a bridge between the cutters having a vertically extending central aperture therethrough, a tubular extension on the bridge forming a continuation of said aperture leading up to the interior of the body so as to conduct circulation fluid therefrom downwardly through the bridge, and drag bit cutters extending inwardly from the sides of the aperture having their lower edges

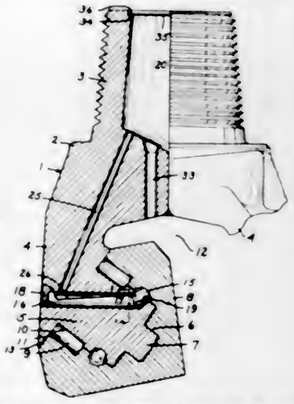


terminating approximately horizontally even with the roots of the teeth on the roller cutters.

2,661,932
ROLLER CUTTER BIT WITH FLUID FLUSHED BEARINGS

Henry B. Woods, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware

Application November 16, 1950, Serial No. 196,023
3 Claims. (Cl. 255—303)



1. In a well drill, a head having a passageway therethrough, a downwardly extending leg thereon, an inwardly extending shaft on said leg, a roller cutter enclosing the inner end of said shaft, comlementary raceways on said shaft and in said cutter inwardly from the base of the cutter, and anti-friction bearings in said raceways, a bore extending longitudinally of the shaft to said complemental raceways, said bearings being insertible through said bore, a plug insertible into said bore to hold the bearings in the raceways, and means forming a passage for flushing fluid from said passageway to and axially of said plug to the interior of the cutter.

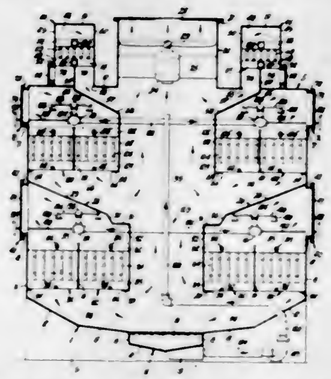
2,661,933
EVAPORATIVE COOLER FOR CONDENSING HOT COMPRESSED GAS

Charles N. Deverall, Buffalo, N. Y., assignor to Niagara Blower Company, New York, N. Y., a corporation of New York

Application February 25, 1952, Serial No. 273,216
10 Claims. (Cl. 257—37)

1. A cooler of the character described, comprising a shell having top, bottom, front, rear and

side walls, an internal baffle at each side of said shell and extending horizontally lengthwise of said shell and forming with the corresponding side wall a pair of spray chambers arranged one above the other, a generally vertical wall enclosing the inner upper part of each of said spray chambers and having a space thereunder providing an air outlet from the lower inner part of each spray chamber to a central plenum chamber bounded by said generally vertical walls, a plurality of air inlets in each of said side walls and each leading to the upper part of a corresponding spray chamber, a pair of cooling coils in each of said spray chambers between its air inlet and its air outlet and through which the fluid to be cooled is adapted to pass and over which the air from the

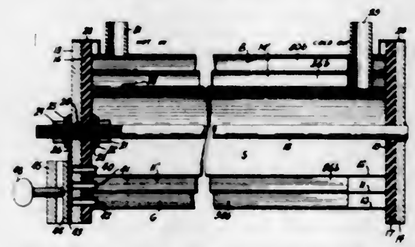


corresponding air inlet flows downwardly and out through the corresponding air outlet, the cooling coils of each pair being arranged side by side to extend generally parallel with the adjacent side wall of said shell, a vertical partition between each pair of said coils and extending parallel with the adjacent side wall of said shell, means arranged in the upper part of each spray chamber above the cooling coils therein to discharge and distribute a stream of water over the cooling coils therein to wet the exterior of said cooling coils and to evaporate and absorb heat therefrom, a sump in the bottom wall of said shell, a pump recirculating water from said sump to said discharging and distributing means, an exhaust duct in said shell leading from said plenum chamber, and an exhaust fan in said exhaust duct.

2,661,934
LIQUID-TO-LIQUID HEAT EXCHANGER

Robert C. Stutz, Buffalo, N. Y., assignor to Niagara Blower Company, New York, N. Y., a corporation of New York

Application November 8, 1950, Serial No. 194,606
4 Claims. (Cl. 257—246)

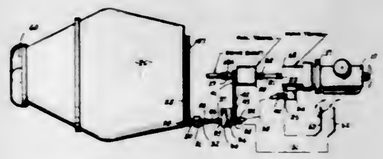


1. A heat exchanger, comprising spaced outer, intermediate and inner tubular open ended sheet metal shells of substantially the same length arranged in generally concentric, spaced relation to one another, a pair of end heads, gaskets arranged against the opposing faces of said end heads and each removably engaging and enclosing corresponding ends of all of said shells, means arranged to draw said end heads together to force said gaskets against said ends of all of said shells, a first series of radial partitions extending lengthwise of and connecting said outer and intermediate shells and forming a circumferential first series of axially extending passages enclosed at their ends by said end heads with alternate partitions engaging the same end head and spaced from the opposite end head to provide a first series of passes adapted to conduct a stream of fluid back and forth the full length of said shells, a radial partition extending the full length of and connecting said outer and intermediate shells and engaging both of said end heads to provide an entering and a leaving pass in said first series of passes, an inlet communicating with said entering pass, an outlet communicating with said leaving pass, a second series of radial partitions extending lengthwise of and connecting said intermediate and inner shells and forming a second circumferential series of axially extending passages enclosed at their ends by said end heads with alternate partitions of said second series engaging the same end head and spaced from the opposite end head to provide a second series of passes adapted to conduct a stream of a second fluid back and forth substantially the full length of said shells, another radial partition extending the full length of and connecting said intermediate and inner shells and engaging both of said end heads to provide an entering and a leaving pass in said second series of passes, another inlet communicating with said entering pass of said second series of passes, and another outlet communicating with said leaving pass of said second series of passes.

2,661,935
SINGLE MOTOR TRANSIT CONCRETE MIXER

Carl L. Willard, Lynwood, Calif., assignor to Willard Concrete Machinery Co., Ltd., Lynwood, Calif., a corporation of California

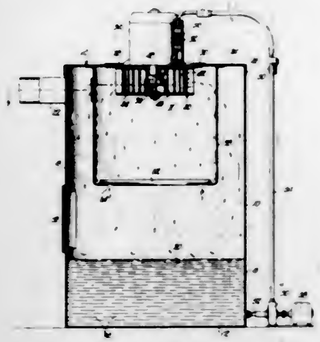
Application September 27, 1952, Serial No. 311,936
5 Claims. (Cl. 259—177)



1. In a transit concrete mixer, the combination of: an automotive vehicle having driving wheels; a motor mounted on the vehicle; a first train of power transmitting devices connecting the motor and the driving wheels of the vehicle, including a variable speed transmission providing for at least one forward driving speed, at least one reverse driving speed, and a neutral non-driving adjustment; a rotary concrete mixing drum mounted on the vehicle; a second train of power transmitting devices connecting the drum to an element of the first train between the motor and the transmission; a third train of power transmitting devices connecting the drum to an element of the first train of power

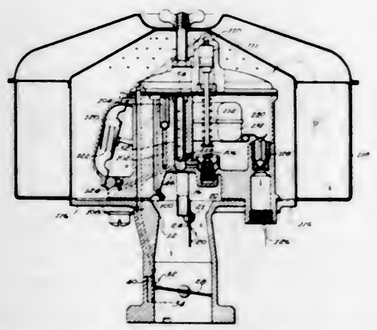
transmitting devices between the transmission and the wheels; a throw-out clutch in said second train; a throw-out clutch in the third train, a pair of controls for the throw-out clutches, respectively; and a single, two-position member for locking one of the controls in the throw-out position and simultaneously freeing the other control for operation to the throw-in position when said member is in one position, and vice-versa.

2,661,936
EVAPORATIVE COOLER
John A. De Vilbiss, St. Marys, Kans.
Application August 20, 1952, Serial No. 305,442
5 Claims. (Cl. 261—29)



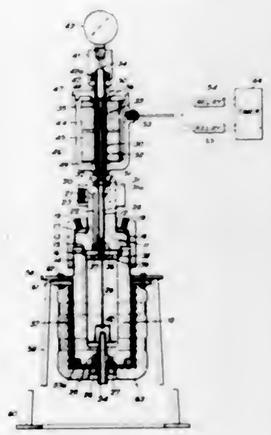
1. In combination with structure having a bottom wall, top wall, and side wall, presenting a hollow chamber adapted to contain a liquid cooling medium, said side wall having outlet means adjacent the top wall; an open bottom tube in the chamber, depending from said top wall; a rotatable fan blower in the tube having a vertical shaft, an open top cup surrounding the shaft, and a plurality of vanes around the cup; and recirculating apparatus for receiving the liquid from the chamber near said bottom wall and directing the same into said cup.

2,661,937
CONCENTRIC CARBURETOR
Milton J. Kittler, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application July 1, 1949, Serial No. 102,687
2 Claims. (Cl. 261—38)



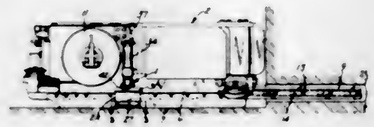
1. In a combined air cleaner and carburetor construction, an upright conduit defining a fuel mixture passageway with a Venturi restriction therein, a laterally extending flange at the upper extremity of said conduit, a dome-shaped air cleaner and silencer having a depending skirt portion engaging the periphery of said flange, a carburetor float chamber structure supported by said flange entirely above said conduit and within said dome-shaped air cleaner, a choke valve in said passageway at said Venturi restriction, a throttle valve in said passageway below said choke valve, and shafts for said valves extending laterally of said conduit below said flange and air cleaner and through said passageway.

2,661,938
ELECTROMAGNETIC STIRRER FOR HIGH-PRESSURE CONTACTORS
Ward E. Kuentzel, Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application June 30, 1950, Serial No. 171,368
8 Claims. (Cl. 261—81)



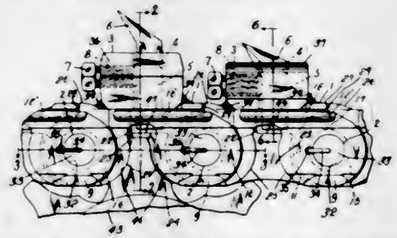
1. Apparatus for contacting separate phases at controlled temperature and under high pressure which comprises a pressure vessel, a thermowell extending into the base of said vessel and removably secured therein, an elongated non-magnetic head means for said pressure vessel, a bore within said head means communicating with said vessel and in substantial axial alignment therewith, a mixer element within said vessel having an operating shaft means, a movable magnetic core in said bore, means for separably linking said core to said shaft means, a solenoid means substantially surrounding said core within said head means, a housing for said solenoid means supported by said elongated head means, a timer for controlling the energizing of said solenoid means, a first coil spring means surrounding said shaft means within said bore, a spring stop plate arranged across the mouth of said vessel below the said head and adapted to support the lower end of said first coil spring means, said stop plate having a diameter greater than the diameter of said vessel and comprising two apertured semi-circular disc members, and a second coil spring means above the upper end of said core and within said bore, each of said coil spring means being adapted to resiliently limit the stroke of said core means vertically within said solenoid means.

2,661,939
TILTING MECHANISM FOR KERF CUTTING MACHINES
Leon E. Simmons, deceased, late of Claremont, N. H., by Gladys L. Simmons, administratrix, Claremont, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Original application April 1, 1948, Serial No. 18,465. Divided and this application February 7, 1951, Serial No. 209,744
7 Claims. (Cl. 262—30)



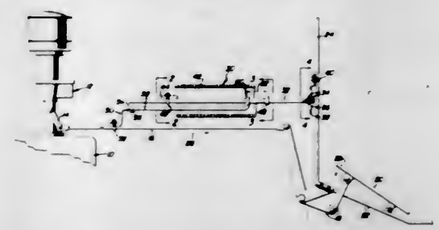
1. In a kerf cutting machine, a machine frame slidable on its bottom over the floor of a mine, a kerf cutter carried by said frame and projecting therefrom for cutting a horizontal kerf in a coal seam near the floor level, said machine frame having a transverse recess extending across the bottom thereof and opening through the opposite sides of said frame, a bottom skid arranged transversely of said frame in said transverse recess and having upstanding sides provided with lateral guides engageable with the sides of the machine frame for loosely retaining said skid in said recess while permitting limited freedom of relative tilting movement between said frame and said skid, upright hydraulic jacks arranged at the sides of said frame and pivotally connected at their upper ends to the upper part of said frame on longitudinal axes and pivotally connected at their lower ends to said skid on parallel axes, a source of liquid under pressure embodied in the machine and including pumping means driven by said machine motor, and control valve means carried by said frame for independently controlling the supply of liquid under pressure to said jacks to effect tilting of the machine selectively in either of opposite directions to vary the edgewise inclination of the kerf cutter with respect to the mine floor, said jacks swinging slightly on their pivots in transverse planes relative to said frame and said skid during such tilting adjustment.

2,661,940
CUTTER CHAIN
Lester G. Rollins, Meriden, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 26, 1948, Serial No. 29,322
5 Claims. (Cl. 262—33)



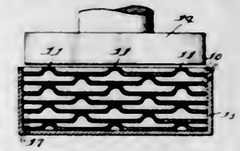
5. In a cutter chain, a chain block comprising a base having transverse end bores adapted to receive hinge pins, and a block lug projecting from said base and having a bit-receiving opening, said base having side recesses intermediate said end bores and adapted to receive the teeth of a driving sprocket, the bottoms of said recesses spaced inwardly from the sides of the block base with the intermediate base portion of solid cross section and the front walls of said recesses providing rearwardly facing driving surfaces engageable by the sprocket teeth, said driving surfaces located rearwardly of the front end bore.

2,661,941
SELECTIVE SPEED CONTROL FOR MOTOR VEHICLES
Garfield B. Smith, Hazel Park, Mich.
Application June 14, 1950, Serial No. 167,993
2 Claims. (Cl. 267—1)



1. A speed control for engines, comprising a stationary rod, a coil spring coaxial with but spaced from said rod, means securing one end of the spring to the rod, an eye provided at the other end of the spring and slidable on the rod, a link parallel to the rod and having one end portion disposed in said spring, a loop provided on said one end of said link and slidable on said rod in and out of abutment with said eye, the other end portion of said link projecting outwardly from said spring, and means at the outer end of the link for operatively connecting the same to a speed controlling element of an engine.

2,661,942
RESILIENT CUSHIONING DEVICE
Lawrence S. Wilbur, Chicago, Ill., assignor to Flexible Metals Corporation, Chicago, Ill., a corporation of Illinois
Application November 14, 1950, Serial No. 195,570
5 Claims. (Cl. 267—2)



1. A resilient cushioning device comprising a plurality of resilient plates stacked one upon another, said plates having a plurality of projections extending in substantial parallelism across one face thereof and flat portions between said projections, said plates being stacked with the projections on one plate in contact with the flat portions of an adjacent plate, and means for maintaining said plates in stacked relation.

2,661,943
RESILIENT CUSHIONING DEVICE
Lawrence S. Wilbur, Chicago, Ill., assignor to Flexible Metals Corporation, Chicago, Ill., a corporation of Illinois
Application February 15, 1951, Serial No. 211,099
5 Claims. (Cl. 267—2)

1. A resilient cushioning device comprising a plurality of resilient plates stacked one upon an-

other, said plates having a plurality of projections with flat portions between said projections, said plates being stacked with the projections on one

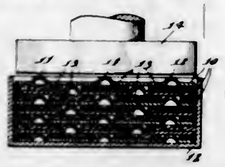
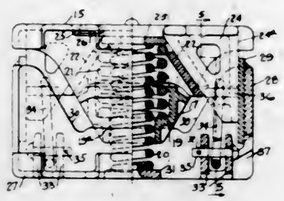


plate in contact with the flat portions of an adjacent plate, and resilient compressible material in the spaces between the plates.

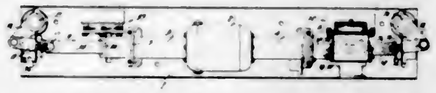
2,661,944
BOLSTER SUPPORTING SPRING GROUP AND STABILIZING MEANS
Karl M. Hamilton, Chicago, Ill.
Application April 17, 1950, Serial No. 156,468
19 Claims. (Cl. 267—9)



1. In a bolster supporting spring group and stabilizing means, top and bottom plates formed to receive load springs therebetween; the top plate, at its transverse median line, being open and the two portions at opposite sides of the opening having downwardly extending parallelly spaced walls offset inwardly at the bottom which terminate and unite in a spring receiving bracket member, with an opening through the bottom and a ledge about the opening, thereby providing a skeletal compartment extending transversely of the plate and open at the top, ends and bottom; a hollow wedge member with a closed top and downwardly sloping diverging ends arranged across the top of said bracket member; a pair of friction shoes arranged at opposite ends of the wedge member and provided with inner sloping ends complemental to and contacting the ends of the wedge member, while the tops and outer ends of the shoes have plane surfaces, the top surfaces being arranged in pressure relation with the bottom of the truck bolster and the outer ends having frictional engagement with friction plates secured to the bottom plate end walls; and vertically disposed concentric coil springs arranged in the wedge member with their upper ends bearing against said wedge member, one of said springs being adapted to provide a variable pressure through the wedge member to the friction shoes and being seated on said bottom plate, while the other spring seats on said ledge in the bottom of said top plate bracket and provides constant wedge and shoe pressure.

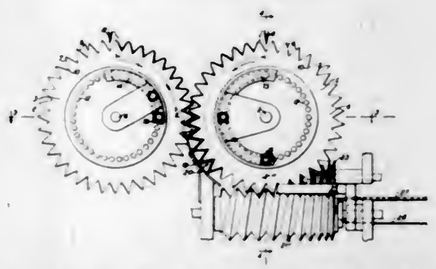
2,661,945
ELECTRIC DOOR OPERATOR
Wallace Hamilton, Albany, N. Y., assignor to Consolidated Car-Heating Company, Inc., Albany, N. Y., a corporation of New York
Application November 17, 1951, Serial No. 256,864
7 Claims. (Cl. 268—63)

1. A door operator, comprising a reversible electric motor; a worm connected to the shaft of said motor and driven thereby; a ball nut cooperating with said worm, whereby, said worm and nut form a reversible driving mechanism; means operatively connected to said nut and adapted to be operatively connected to a door shaft for turning the same as said nut moves on said worm; a toggle having the free end of one leg thereof held in fixed pivotal relation to said motor, the free end of the other leg pivotally connected to said nut, and being only slightly bent at the knee when said nut is in door-closed posi-



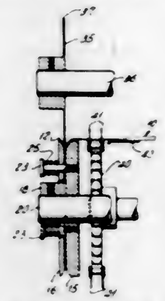
tion; an electromagnet having its field in close proximity to said toggle when said nut is in door-closed position; whereby, when energized, said magnet will hold said toggle approximately straight and lock said door in closed position; and electric circuit forming means, including said electromagnet and a switch automatically actuated by the door-closing movement of said operator when said door is substantially closed, for closing said circuit and energizing said magnet to lock said door in closed position.

2,661,946
METHOD AND MACHINE FOR INTERLEAVING AND STACKING SHEETS OF PAPER AND SIMILAR MATERIALS
Louis Jean Chambon, Paris, France, assignor to Societe d'Etudes de Machines Speciales Societe a Responsabilite Limitee, Paris, France
Application December 15, 1950, Serial No. 201,048
Claims priority, application France December 15, 1949
10 Claims. (Cl. 270—39)



1. Apparatus for interleaving and stacking folded sheets which comprises in combination; a cooperating pair of intermeshing toothed interleaving rotors adapted to have folded sheets inserted into each inter-tooth recess at the respective tops thereof to interleave said sheets as they are brought into an interleaving zone defined by the area of intermeshing of said rotors, ducts in each rotor opening into each of said recesses, means associated with each of said rotors for selectively applying suction to the ducts of the related rotor during communication with said ducts, means associated with each rotor for selectively applying air-pressure to the ducts of the related rotor during communication with said ducts, said suction applying means associated with one of said rotors communicating with the ducts of said one rotor during the travel of the related inter-tooth recesses from the top location, at which the folded sheets are inserted in said recesses, to said interleaving zone, said air-pressure applying means associated with said one rotor communicating with the ducts of said one rotor only when the related recesses are at the end of said interleaving zone, said suction applying means associated with the other of said rotors communicating with the ducts of said other rotor during the travel of the related recesses from the top location, at which the folded sheets are inserted in said recesses, to the bottom of said other rotor, and said air-pressure applying means associated with said other rotor communicating with the ducts of said other rotor only when the related recesses reach said bottom of the other rotor so that the folded sheets inserted in the recesses of said one rotor are held on the latter to said interleaving zone and are interleaved with the folded sheets held on said other rotor and transferred to the latter at said interleaving zone and so that the interleaved folded sheets are carried by said other rotor from said interleaving zone to said bottom of the other rotor for discharge there under the influence of air pressure then applied through said ducts of the other rotor, and means for conveying said interleaved sheets tangentially away from the bottom of said other rotor over a generally horizontal path.

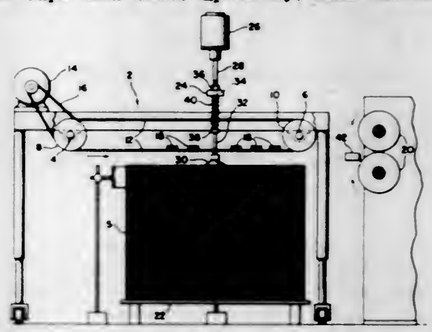
2,661,947
FOLDING AND CREASING DEVICE
Frank J. Reynolds, North Brunswick, N. J., assignor to Johnson & Johnson, a corporation of New Jersey
Application June 1, 1950, Serial No. 165,391
9 Claims. (Cl. 270—86)



1. A device for folding and creasing pliable articles, comprising a pair of coaxial rotary folding members, one of which is mounted for yieldable movement axially with respect to the other, said members presenting at the outer peripheries of their confronting faces chamfered surfaces respectively defining therebetween a circumferential generally V-shaped folding slot, and a rotary creasing blade supported on an axis parallel to the axis of said folding members and having a peripheral creasing edge extending into said slot to tuck the articles successively into said slot, said creasing edge being in a plane axially offset from the vertex plane of said slot, to cause said edge to bear against the chamfered surface of the yieldable folding member, and spring means urging said latter folding member axially toward the other folding member.

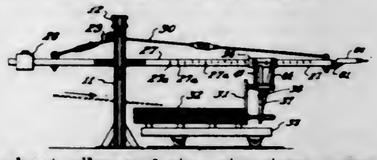
2,661,948
SHEET PICKUP AND FEEDER
William G. Montgomery, Birmingham, Ala., assignor to United States Steel Corporation, a corporation of New Jersey
Application April 19, 1950, Serial No. 156,797
9 Claims. (Cl. 271—12)

1. A sheet pick-up and feeder comprising a substantially horizontal conveyor, means for imparting motion to said conveyor, magnetic means for holding sheets against the under side of the conveyor, means for supporting a pile of sheets below said conveyor, a support above said conveyor and the pile of sheets, a plurality of suction cups mounted on said support on the side adjacent said pile of sheets and adapted to normally rest on and grip the top sheet of said pile, electrical means connected to said support to move the suction cups and sheet upwardly, said movement



first bringing the sheet into contact with the under side of the conveyor and further movement of the suction cups causing release of the sheet therefrom, a limit switch at the discharge end of said conveyor in the path of travel of sheets fed therefrom and adapted to be contacted thereby for operation thereof, a timer in series with said limit switch, a pair of contacts operable by said timer, a switch having its actuator in series with said timer contacts and its contacts in series with said electrical means.

2,661,949
SHEET PILER END STOP STRUCTURE
George F. Bauer, Middletown, Ohio, assignor to Armco Steel Corporation, Middletown, Ohio, a corporation of Ohio
Application April 15, 1949, Serial No. 87,739
15 Claims. (Cl. 271—86)

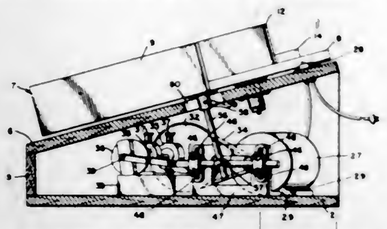


6. A sheet piler end stop structure comprising a frame, a gate structure hingedly mounted in said frame, a boom carried by said gate structure and extending on both sides thereof at substantially right angles thereto, releasable means for locking said gate structure in closed position, a resilient end stop member adjustably mounted on said boom at one side of said gate structure, a counterweight mounted on said boom at the other side of said gate structure, and means disposed at the end of said boom on the side carrying said end stop member and operatively connected with said releasable means for operating the same to release said gate structure from its closed position.

2,661,950
STACK JOGGER
Theodore E. Brown, Berwyn, Ill.
Application December 3, 1947, Serial No. 789,349
4 Claims. (Cl. 271—89)

1. In a device of the class described, comprising a housing, an inclined cover member therefor.

a tray pivotally attached at one point only to said cover member and spaced substantially parallel relationship thereto, and means for oscil-



lating said tray about said pivot, the axis of said pivot being normal to the plane of said housing cover member and off geometric center of said tray.

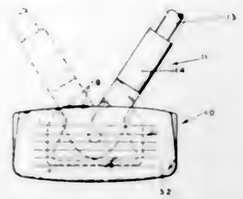
2,661,951
BOWLING BALL GRIP
Thomas R. Uhas, San Antonio, Tex.
Application November 3, 1950, Serial No. 193,816
1 Claim. (Cl. 273—63)



In a bowling ball construction, a conventional-type spherical ball having at least two radial sockets converging toward each other and the center of the ball and having their outer ends opening through the convex surface of the ball, said sockets defining complemental holes, one a finger hole and the other a thumb hole, each hole being generally triangular in cross-section and embodying a pair of individual opposed flat side walls and a narrow intervening palmar wall of a width less than the width of the palmar portion of the finger which is opposed thereto and cooperates therewith, said side walls converging toward said palmar wall and defining a substantially V-shaped finger-receiving, retaining guiding and squeezing channel, said channel ranging from the bottom of the hole and opening through the convex surface of the ball and allowing the finger to constantly contact and conform to the general cross sectional shape of the channel and to guide gradually from the hole by way of the channel while having contact with said converging side walls during the withdrawing step until the instant the tip of the finger emerges through the entrance of said hole, the palmar surfaces of the respective holes being disposed inwardly toward each other whereby the respective channels are disposed in opposed wedging relationship resulting in a squeezing action and a resultant efficient grip, yet allowing the fingers to be eased out of the holes when the bowler release the ball.

2,661,952
DOUBLE-FACED GOLF CLUB
Clarence W. Jackson, San Mateo, Calif.
Application August 4, 1952, Serial No. 302,500
3 Claims. (Cl. 273—80)

1. A four-way golf club comprising a generally rectangular head having opposed impact faces, said head having a centrally disposed, elongated slot opening toward its upper surface, said slot having vertical, parallel side walls, a shaft having a lower end portion, said lower end portion having vertical side surfaces disposed in face-to-face relation to said side walls, pivot means extending normally to said side walls and pivotally connecting said shaft to said head at the center of said slot, said lower end portion having an opposed pair of toes thereon extending toward the ends of said slot from said pivot means, each of said toes having a socket therein parallel to said pivot means and opening in opposite directions, a ball loosely mounted in



each of said sockets and a spring compressed between each of said balls and the bottom of its respective socket, and symmetrically arranged upper and lower pairs of ball-receiving depressions in the respective side walls of said slot engageable by said balls along the paths of movement thereof when said shaft is rocked about said pivot means, one of said balls engaging an upper socket and the other of said balls engaging a lower socket simultaneously to retain said shaft in an extreme position of angular relationship with respect to said head.

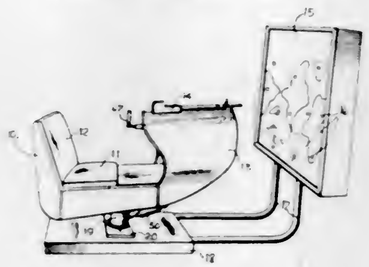
2,661,953
INTERMITTENTLY-VARIABLE DRIVE MECHANISM
Michael F. Campbell, Sterling, Colo.
Application September 1, 1951, Serial No. 244,820
1 Claim. (Cl. 273—86)



In an intermittently-variable drive mechanism having a powered shaft, like drive members spaced apart along and independently rotatable on said shaft, and ratchet and detent means similarly interengaging said drive members and shaft for simultaneous, synchronous rotation in one direction, means directly effective in reaction to shaft drive to intermittently and unpredictably accelerate the rotation of individual drive members on and about their mounting shaft, said latter means comprising a second shaft spacedly paralleling and in synchronously-driven relation with said first shaft, a chain sprocket concentrically and fixedly associated with each said shaft-mounted drive member, a drum of greater diameter than such sprocket fixed to and for rotation with said second shaft in operative alignment with each said sprocket, an annular groove peripherally of the drum, an endless chain engaging each sprocket and embracing the associated drum in sliding accommodation within the groove thereof, holes intersecting the floor of the drum

groove, and a plurality of headed pins loosely within the drum for haphazard protrusion of their stems through said holes and into temporary latching engagement with the chain links.

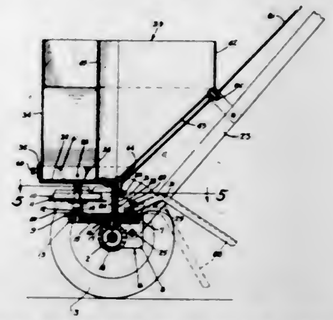
2,661,954
AMUSEMENT AND TARGET PRACTICING DEVICE
Jerry C. Koci, Barrington, Ill., assignor to Chicago Coin Machine Co., Chicago, Ill., a corporation of Illinois
Application July 14, 1953, Serial No. 367,805
5 Claims. (Cl. 273—101.2)



1. An amusement game and target practicing apparatus comprising a movable simulated vehicle having a cockpit and a simulated gun carried by the nose of the vehicle and extending forwardly with respect to said cockpit, a target structure including a target area in spaced confronting relation with respect to the nose of said vehicle and substantially at right angles with respect thereto and having target elements in said area to be illuminated, means for supporting said vehicle for movement relative to the target structure, means for moving said vehicle relative to the target structure, means for illuminating said target elements including an electric circuit, a power source in said circuit, a plurality of contacts in said circuit and carried by and movable with said vehicle and each having circuit connection with a certain one of said target elements, and a flexible member having a contact element in confronting relation with respect to said plurality of contacts and adapted to engage a certain one of said contact elements upon movement of said vehicle and in accordance with the position of said vehicle with respect to said target structure and with the synchronization of the line of sight of said gun with said certain one of said target elements.

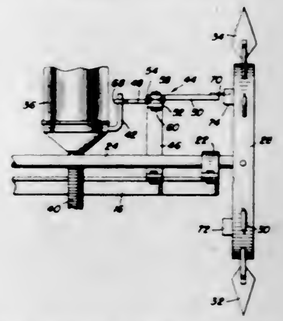
2,661,955
COMBINED BROADCAST SEEDER AND FERTILIZER SPREADER
Donald L. Sherer, St. Louis Park, Minn.
Application February 1, 1952, Serial No. 269,403
6 Claims. (Cl. 275—8)

1. In a broadcast distributor, a hopper having a bottom wall, a partition in the hopper extending upwardly from said bottom wall to the upper portion of the hopper and dividing the hopper into seed and fertilizer chambers, said bottom wall having an elongated main discharge opening therein located directly beneath said partition with its longitudinal axis disposed in substantially parallel relation to the bottom edge of said partition whereby a portion of said opening is in direct communication with the seed chamber and the remaining portion with the fertilizer chamber, independently operable slide valves for regulating the rate of feed and the relative proportions of seed and fertilizer delivered onto a broadcast distributor positioned beneath the hopper, said main discharge opening having its longitudinal axis disposed at an angle to the direction of



travel of the apparatus, when in use, and having means therein for intercepting a portion of the material flowing therethrough onto the distributor, thereby to effect uniform distribution of the broadcast material over the ground.

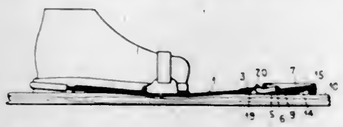
2,661,956
SEED HOPPER VALVE OPERATING MECHANISM
Emil C. Voss, Davenport, Iowa
Application April 5, 1949, Serial No. 85,692
1 Claim. (Cl. 275—9)



In a grain planter including a seed dispenser having a valve provided with an operating lever that includes an upstanding end portion, an operating mechanism for the valve comprising a mounting bracket having a horizontal part with a vertical opening therein, first and second horizontally forwardly and rearwardly swingable arms having flat and enlarged inner end portions disposed one above the other in contacting relationship, a common pivot for the arms extending through the inner end portions of the arms and through the opening in said bracket, interconnecting means between the inner end portions of the arms causing swinging movement of the arms as a unit with forward swinging movement of the first arm and permitting rear swinging movement of the first arm independently of the second arm, a rigid eye carried by the second arm and receiving the upstanding end portion of the valve lever, and a contact finger secured to the first arm for engaging a rotary member to impart swinging movement to the arms, said interconnecting means comprising a pair of bolts threaded through the inner end portion of said first arm, said inner end

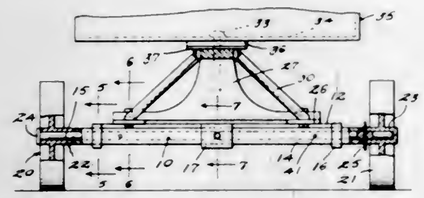
portion of said second arm having a pair of arcuate slots therein receiving said bolts, each of said bolts engaging an end of each slot when the arms are disposed in alignment to cause forward swinging movement of the arms as a unit, said bolts riding in said slots upon rearward swinging movement of said first arm relative to the second arm.

2,661,957
SKI-FASTENING DEVICE
Adolf Attenhofer, Zurich, Switzerland
Application May 23, 1952, Serial No. 289,573
3 Claims. (Cl. 280—11.35)



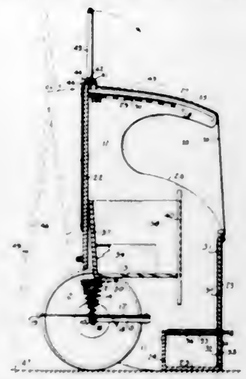
1. A ski-fastening device comprising in combination: a longitudinal guide member adapted to be fixed to the top surface of the ski, a slide shiftably guided on the said guide member, a toggle lever pivoted to the said slide about a transverse axis, a cable loop attached to the said toggle lever, an adjustment nut journalled rotatably and restrained axially in the said guide member, a bolt having a threaded large diameter portion at one end in screwed connection with the said nut and a threaded small diameter portion at the other end, and two concentrical coiled tension springs each having a helical pitch and inner diameter matching the helical pitch and outer diameter of the said threaded large diameter portion and threaded small diameter portion, respectively, and in screwed connection with these portions at one end, respectively, the other ends of the said spring being attached to the said toggle lever.

2,661,958
WHEEL AND AXLE ASSEMBLY FOR TOBACCO TRUCK CHASSIS
Benjamin E. Stokes, Ayden, N. C.
Application July 11, 1952, Serial No. 298,221
1 Claim. (Cl. 280—29)



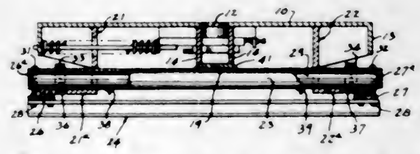
An axle and wheel assembly comprising an elongated horizontal angle member, a bearing sleeve engaging in the angle of said member and projecting beyond the ends of said member, a pair of end straps and an enlarged center strap fixed to said member and extending about said sleeve, a set screw threaded through said center strap and engaging said sleeve for holding the latter against endwise and rotary movement, a shaft rotatable in said sleeve and projecting beyond the ends thereof a wheel on one end of said shaft, a wheel retaining head on said one end of said shaft, said wheel having a hub abutting against one end of said sleeve, a second wheel on the other end of said shaft, said second wheel having a hub abutting against the other end of said sleeve, and a pin extending through said second hub and said shaft to thereby lock said second wheel relative to said shaft.

2,661,959
TWO-WHEELED CHILD'S CARRIAGE
Jessie Bell, Tacoma, Wash.
Application November 19, 1948, Serial No. 60,863
1 Claim. (Cl. 280—47.25)



A child's vehicle adapted to resiliently support a seat therein, said vehicle comprising a frame having a back and side members, the back member terminating at its lower end above the side members, a fixed axle secured between the side members adjacent the rearward edge thereof below the back member, wheels mounted upon the axle, springs secured at one end to the axle and extending upwardly therefrom below the back member to support the seat, and vertical guides on the side members spaced from the back member for confining the seat between the back member and the vertical guides for vertical movement within the frame.

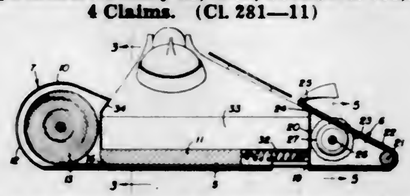
2,661,960
PIVOTALLY MOUNTED FIFTH WHEEL PLATE
John P. K. Fontaine, Birmingham, Ala.
Application June 9, 1951, Serial No. 230,787
2 Claims. (Cl. 280—438)



1. The combination with towing apparatus for connecting a trailer to a tractor embodying a fifth wheel plate, of laterally spaced brackets depending from the underside of the fifth wheel plate near the sides thereof, a continuous length of tube secured in the brackets and with the ends thereof projecting outwardly of the brackets, a depending portion on the fifth wheel plate intermediate the ends of the tube to which the tube is secured, other brackets fixedly mounted on the tractor having socket portions disposed adjacent the ends of and in axial alignment with the tube, a shaft rotatably mounted in the tube and with its ends projecting into the sockets, and means securing the shaft non-rotatably in the sockets.

2. In apparatus for connecting a trailer to a tractor, a fifth wheel plate, laterally spaced brackets depending from the plate, a continuous length of tube passing through the brackets and secured against rotation relative to the plate, other brackets disposed outwardly of the first named brackets mounted on the tractor and having tubular sockets axially aligned with the tube, a continuous shaft passing rotatably through the tube and with its ends projecting into the sockets, removable means on the sockets securing the shaft non-rotatably therein, a grease fitting on the tube through which grease is supplied to the inside thereof, sleeve like grease seals surrounding and secured to the adjacent ends of the tube and sockets, and rings of flexible material in the sleeves surrounding the tube with a grease retaining fit.

2,661,961
MEMORANDUM ATTACHMENT FOR TELEPHONES
George D. Mohundro, East Alton, Ill.
Application January 28, 1952, Serial No. 268,544
4 Claims. (Cl. 281—11)



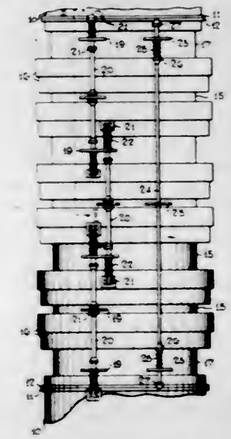
1. A memorandum attachment for telephones comprising front and rear units, spring means urging said units toward one another for clamping a telephone therebetween, said rear unit being adapted for supporting a roll of paper in a position for feeding paper forwardly therefrom to the front unit, and a paper feed roller within the front unit for feeding paper to the upper surface thereof, a platform extending from one of said units for supporting a telephone, said spring means being disposed below the upper surface of said platform, said platform having a pair of longitudinal bores opening into one end thereof, the other of said units having longitudinally extending rods slidably received in said bores to guidingly retain the units in longitudinal alignment with one another.

2,661,962
HOSE CONNECTOR FOR PLASTIC PIPE
Lewen R. Nelson, Peoria, Ill.
Application January 11, 1950, Serial No. 137,983
1 Claim. (Cl. 285—77)



In combination in a hose coupling of the class described, a shank having a peripheral groove including a flat axially extending bottom of substantial width; an annular member fixed to and extending outwardly from said shank; a plastic hose engaged over said shank with its end abutting said annular member; and a plurality of hose clamping fingers carried by said annular member, each of said fingers including a body portion extending substantially parallel to said shank along the outer surface of said hose, an intermediate portion of substantial length projecting from the end of said body portion toward said shank and thus into the body of said hose, and a flat hose-clamping portion embedded in said hose spaced from said body portion and extending from said intermediate portion back toward said annular member; each of said hose-clamping portions being substantially centered with respect to said groove, having a length substantially equal to the width of the flat bottom of said groove and lying substantially parallel to said flat bottom; said peripheral groove having flat sidewalls diverging outwardly, whereby the width of the mouth of said groove is greater than the length of said hose-clamping portions of said fingers, said sidewalls joining the outer surface of said shank in sharp annular shoulders; each of said hose-clamping portions of said fingers terminating in a sharp shoulder opposed to the sharp shoulder of said groove nearest said annular member, and the peripheral portion of said shank between said groove and said annular member presenting a plain cylindrical surface.

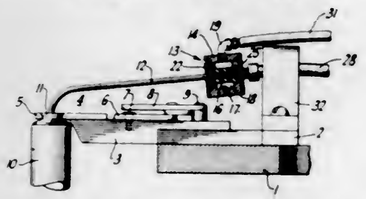
2,661,963
EXPANSION JOINT
Herbert F. Brown, Cranford, and Robert H. Maass, Madison, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application February 7, 1950, Serial No. 142,874
2 Claims. (Cl. 285—90)



1. In an expansion joint of the character described, including at least two sets of expansion joint units, each having at least two annular bellows expansion members disposed in end to end opposed longitudinally spaced relation with the expansion members in each set secured to and spaced by a series of annular rigid sleeve members of which one sleeve member is common to adjoining sets, a circumferential series of brackets on each sleeve member extending radially outward therefrom and longitudinally aligned from sleeve member to sleeve member, of which said brackets on said sleeve member common to adjoining sets are duel brackets, a first series of longitudinal tie rods extended through the brackets on said sleeve members in each set, each rod having limit stops thereon disposed in spaced relation to each side of each bracket in the set, with the outermost ends of the rods in one set overlapping the outermost ends of the rods in another set in said dual brackets, a separate circumferential series of bracket elements on the outermost members only of said series of sleeve members, and a second series of tie rods extended through said separate brackets the entire length of said joint, each rod having an outer limit stop and an inner limit stop disposed in spaced relation to each other and to each side of each sepa-

rate bracket; the improvement which comprises a coil spring intermediate each outermost limit stop on said first series of rods and each adjacent bracket, encircling the rod and acting in opposition to each other on each rod, and to said springs on the outermost end of an overlapping rod against a dual bracket, and a coil spring at each end of each of said second series of rods intermediate each inner limit stop and said separate brackets for said rods, acting in opposition to each other on the same rod and to the spring on an adjoining end of a rod in said first series of rods.

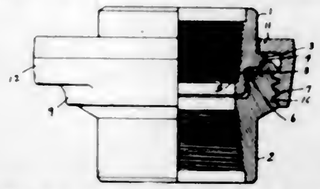
2,661,964
EXHAUST HEAD
Oliver Mann, Danvers, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application December 13, 1950, Serial No. 200,527
1 Claim. (Cl. 285—90)



An exhaust head comprising: a body member having an opening therein extending from top to bottom thereof, the bottom face of said body member having a counterbore defining a shoulder therein surrounding the opening, the opening in the upper face being cylindrical; a resilient tube having a bore initially of uniform cross section throughout its length disposed in said opening and extending from top to bottom thereof, said resilient tube having a flange formed on one end thereof, the opposite end of said tube being cylindrical to fit within the cylindrical opening in the upper face, said flange seating on said shoulder, the outside wall of said resilient tube and the wall of the opening in the body member defining a chamber in the body member; a rigid tube connected to a side of said body member, the bore thereof being in communication with the chamber in the body member, a cover plate attached to the bottom face of said body member and comprising means to clamp said flange against said shoulder, said cover plate having an inwardly tapered aperture therein and a hollow externally tapered boss upstanding on the inside face thereof extending into the bore of said resilient tube, said boss being in register with said aperture; and a second cover plate attached to the top face of said body member, said second cover plate having an externally tapered boss with a bore therethrough, said boss upstanding on the inside face thereof extending into the bore of said resilient tube, and a rigid tube upstanding on the outside face thereof adapted to be inserted within a resilient tube, the bore of said rigid tube being in register with the bore of said tapered boss.

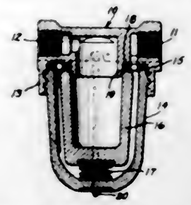
2,661,965
UNION WHICH PERMITS MISALIGNMENT
Daniel J. Parmesan, Houston, Tex., assignor, by mesne assignments, to Chiksan Company, Brea, Calif., a corporation of California
Application October 7, 1948, Serial No. 53,286
1 Claim. (Cl. 285—122)

A union which comprises, in combination, a first coupling member having at one end an outwardly curved annular external face, a second coupling member having an inwardly flared substantially conical face so that said flared face contacts the curved face of said first member in an annular line contact to form a metal-to-metal seal therewith despite misalignment of the coupling members, said first member having an external annular groove inwardly adjacent said curved face with one side of said groove connecting tangentially with said curved face to form a smooth continuous wall therewith and having its other side extending away from the longitudinal axis of said first member to form an undercut portion for retaining a seal ring in said groove upon separation of the first and second members, said groove being disposed to face toward said flared face so that when said coupling



members are joined together the flared face of said second coupling member and said wall converge from said groove to an apex situated at said metal-to-metal seal thereby forming an annular space which is V-shaped in cross-section, a resilient O-ring disposed in said groove with a portion of the periphery of the O-ring in contact with the wall of said groove and an opposite portion in contact with said flared face, said O-ring being uniformly circular in cross-section and of a cross-sectional diameter sufficiently large that with the coupling members joined together the O-ring is in sealing contact with said groove and said flared face with the latter urging the O-ring into its sealing contact with said groove, the O-ring bridging between said members across the base of said V-shaped space, and means for securing said coupling members together.

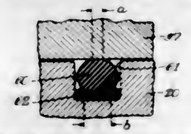
2,661,966
ATTACHING THREAD FOR GLASS BOWLS
James L. Edelen, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application December 9, 1949, Serial No. 132,150
1 Claim. (Cl. 285—145)



The combination of a pair of cylindrical members with complementary attaching threads for fluid tight assembly, one of the members being of relatively unyielding material and including a depending internally threaded annular flange and an inwardly projecting shoulder, a gasket seated on said shoulder, the other member being of relatively fragile material and having a rounded upper gasket engaging marginal edge portion and complementary threads adjacent said rounded edge portion for engaging the threads of said depending annular flange, said engaging

threads being of trapezoidal section with their sides forming an included angle of not more than approximately twenty degrees, the threads of said second member having a side surface with a regularly helical, inner, load-bearing part, the end of the thread on the second member terminating in a tapered portion formed at least in part by a gradual reduction in the depth and width of the threads so that said side will clear the adjacent wall of the complementary threads of the first member, when said members are moved into engaging position, whereby the end portions of the threads of the second member are relieved of bending stresses incident to a fluid tight threaded assembly but provide a reinforcement for the fragile structure of which it forms a part, the engaging portions of the thread on said second member making at least a complete revolution of the second member while the reduced end of the thread of the second member is included solely in the part of the thread extending beyond the completed revolution.

2,661,967
FLUID SEAL
Wallace F. Mitchell, Chicago, Ill., assignor to M B G Corporation, Chicago, Ill., a corporation of Illinois
Application November 17, 1949, Serial No. 127,825
1 Claim. (Cl. 286—26)



In fluid pressure apparatus a pair of relatively movable members having opposed wall surfaces, one of which members has an annular sealing ring groove concentric with and opening toward the adjacent wall of the other member, a fluid seal including an annular seating ring of relatively soft rubber material disposed entirely within said groove and seated against the bottom wall thereof, and an O ring of relatively hard rubber material and of less axial width than said groove disposed in said groove and against said seating ring and projecting from said groove into sealing contact with said other member, said seating ring being of initially less axial width than said groove but of sufficient axial width to extend under said O ring in sealing relation to said O ring and the bottom wall of said groove in all working positions of said O ring and being of substantially less radial extent than said groove so as to remain below the mid point of said O ring in all working positions of the latter.

2,661,968
ATTACHMENT OF DECORATIVE BALLS BETWEEN PARALLEL TUBE ELEMENTS OF FURNITURE
John A. Kolbe, North Manchester, Ind., assignor to Arnolt Corporation, Warsaw, Ind., a corporation of Indiana
Application August 10, 1949, Serial No. 109,568
4 Claims. (Cl. 287—54)



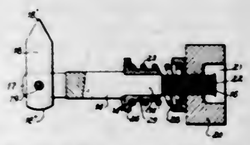
1. In an article of furniture, a pair of tubular elements disposed in spaced parallel relation, a hollow decorative metal ball having a circular side opening with extension slots extended from diametrically opposite sides of the opening, said ball being disposed between said tubular elements with the end portions of said slots located in opposed relation to the respective adjacent sides of said elements, and headed screws extended from the inside of said ball through the respective slots and threaded into said tubular elements to engage the heads of the screws tightly with the internal surfaces of the ball and thereby secure the elements to said ball.

2,661,969
FLANGED RUBBER JOINT
Leon F. Thiry, Montclair, N. J.
Application November 8, 1949, Serial No. 126,154
2 Claims. (Cl. 287—85)



1. A flexible joint comprising an outer member providing an outer surface of revolution, an inner member within the outer member providing an inner surface of revolution coaxial with but spaced radially inwardly from the outer surface, an annular surface around the outer member at one end of the outer surface extending in a plane transverse to the axis of the surfaces, a rubber insert having a body portion between the inner and outer surfaces and in a state of appreciable radial compression and axial elongation and having a radial flange portion engaging said annular surface, said insert comprising a flanged bushing the body of which has an outer surface of revolution which when unstressed is throughout its length substantially the diameter of the outer member surface whereby it is not materially deformed circumferentially between the members, and an inner surface of revolution which when unstressed is of appreciably less diameter than the inner member surface, whereby the inner surface of the body of the bushing is materially stressed and expanded in a circumferential direction, said insert flange having a counterbore formed therein at the flange end of the bushing with its bottom substantially in the plane of the junction between the flange and the outer surface of revolution of the body of the bushing and a diameter in its undeformed state substantially equal to the diameter of the inner member's surface of revolution.

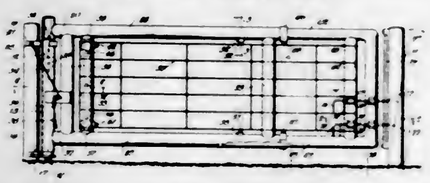
2,661,970
PIVOT PIN OR BOLT
Warren R. Petersen, Baldwin, N. Y., assignor to Republic Aviation Corporation, near Farmingdale, N. Y., a corporation of Delaware
Application March 26, 1949, Serial No. 83,670
1 Claim. (Cl. 287—101)



A pivot pin or bolt comprising a shank for insertion in registered openings in a pair of mem-

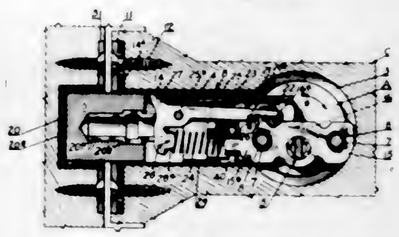
bers to be joined thereby, said shank having one end portion thereof reduced to establish a shoulder between said reduced end portion and the remainder of said shank, threads on said reduced portion extending inwardly from the extremity thereof, a nut coacting with said threads, means at the extremity of said reduced portion to prevent the removal of said nut, first and second washers loosely mounted on said reduced portion, said first washer adapted to normally rest against said shoulder and said second washer against the inner face of said nut, a spacer loosely mounted on said reduced portion between said first and second washers, a spring encircling said reduced portion between said first and second washers, a latch pivoted to the end of said shank opposed to said reduced portion to rest either in an inoperative position coextensive with said shank or in an operative position at right angles thereto to bear against the adjacent surface of one of the members, and a projection secured to and projecting outwardly from the surface of the member coacting with said latch to project into the path of rotary movement thereof when in its operative position to arrest such rotary movement, said nut effective upon rotation in one direction on said reduced portion to move said second washer toward said first washer to compress said spring therebetween, said spacer effective upon such rotation to permit the full compression of said spring and to prevent the over compression thereof, and the distance between said latch and shoulder of said shank being less than the combined thicknesses of the members.

2,661,971
LATCHING MECHANISM
Alois Reymann, Sandwich, Ill.
Application July 15, 1948, Serial No. 38,820
2 Claims. (Cl. 292—57)



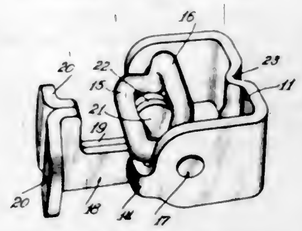
1. A gate latch fastening means for an adjustable gate having a first post, means pivotally mounting said gate on said first post, a second post and means for adjusting the length of the gate toward and away from said second post; said gate latch comprising a keeper consisting of said second post having a retaining bar parallel to the rail but spaced therefrom and defining a relatively long, narrow vertical slot in said keeper; and a bolt assembly comprising at least one mounting bracket with a horizontal slide bar carried thereby; and mounted for limited longitudinal sliding movement in said bracket and limited rotation on its axis whereby the slide bar may be moved longitudinally and its forward end projected into said slot of the keeper at any point intermediate the ends thereof the forward end portion of said longitudinal slide bar having a right angled lateral extension of a length greater than the width of the slot in the keeper whereby it may be projected through said slot only when the projection is in substantially vertical position and may be rotated to a substantially horizontal position wherein it is held in engagement behind the retaining bar of said keeper; together with manual means to rotate the slide bar and bring the lateral extension thereof into vertical position to pass through the slot in said keeper, and means to maintain the lateral extension thereof in horizontal position and in engagement with the retaining bar; said last named means comprising a handle extending outwardly from the slide bar and disposed at a right angle to the lateral extension thereof, whereby the weight of the handle will cause it to swing downwardly and hold the lateral extension in horizontal engaged position, said handle being normally spaced from said bracket when in latching position whereby to allow for different sized gate openings.

2,661,972
REVERSIBLE DEAD LATCH
Walter R. Schlage, deceased, late of Burlingame, Calif., by Anna Schlage, executrix, Burlingame, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a corporation of California
Application March 21, 1947, Serial No. 736,218
10 Claims. (Cl. 292—244)



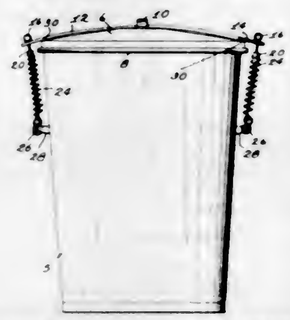
7. A lock structure comprising a housing, a main latch bolt, means for mounting said main latch bolt for reciprocation in said housing along an axis and for rotation about said axis, a dead latching bolt, means for mounting said dead latching bolt for reciprocation in said housing parallel to said axis, and said dead latching bolt being mounted for rotary movement about said axis to occupy either one of two positions alongside of said axis, and a dogging mechanism in said housing for preventing said reciprocation of said main latch bolt, said dogging mechanism including an abutting part disposed in the path of reciprocation of said dead latching bolt in either one of said two positions thereof.

2,661,973
RETAINING MEANS FOR DOORS AND THE LIKE
Theodore J. Sweger, Chicago, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application July 27, 1950, Serial No. 176,091
4 Claims. (Cl. 292—246)



1. Retaining means of the character described comprising a bracket member with laterally spaced forwardly presented apertured lobes, and a horizontally disposed oscillatingly mounted, single-piece latch member provided with trunnions at opposite ends, pivotally mounted in said lobe apertures to swing through an arc of a vertically disposed circle and having a pair of substantially similar parallel spaced bars radially disposed approximately ninety degrees (90°) apart and a stop lug on a bracket lobe extending inwardly into the swinging path of said bars whereby complete rotation of the latch member is prevented and one of said bars held in substantially horizontal position in the path of an oncoming keeper.

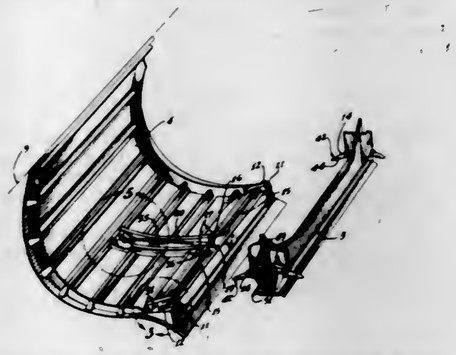
2,661,974
GARBAGE CAN COVER LOCK
Herman F. Zehnder, Bay City, Mich.
Application August 31, 1951, Serial No. 244,508
2 Claims. (Cl. 292—258)



1. In combination, a can body having an open upper end, diametrically opposite side handles spaced from the upper end of the body, a removable cover on said upper end having a raised center portion and a bail handle centered upon said center portion, an elongated flexible lock bar proportioned to extend substantially diametrically across said cover through the bail handle and having its ends projecting beyond the periphery of the cover; vertically arranged springs extending along opposite sides of the can body between the cover and the respective side handles; and means connecting the upper ends of the springs to the projecting ends of the lock bar for adjustment of said upper ends of the springs toward and away from the lock bar, said means including bolts rotatably mounted upon and depending from the ends of the lock bar and plugs having axial, threaded bores receiving said bolts, for adjustment of the plugs longitudinally of the bolts responsive to rotation of said bolts, said plugs having their outer surfaces spirally grooved for threading of the plugs into the upper ends of the springs, said springs being detachably connected at their lower ends to the said side handles to tension the springs and flex the lock bar into engagement with the center and diametrically opposite marginal areas of the cover, said springs and lock bar coacting to bias the cover in the direction of the body.

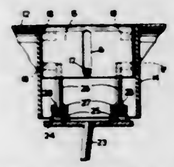
2,661,975
AIRCRAFT DOOR LOCK
Harold E. Michael, Hawthorne, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application October 14, 1950, Serial No. 190,106
9 Claims. (Cl. 292—302)

1. An aircraft lock for locking a hinged door or panel closed against the fixed structure of the aircraft, comprising a receiving member attached to said door and having a receiving passage axially facing said structure at a door closing point, a bolt member slidable through said receiving member in a direction perpendicular to the central axis of said passage, a striker member fixed to said structure opposite said receiving member and adapted to project into said passage when said door is closed, said striker having an elongated hole extending therethrough parallel to the sliding direction of said bolt in said receiving member, a tongue within said bolt



located to enter and fill said elongated hole when said striker has entered said receiving member, to thus determine a locked position, and operating means comprising a linkage connected to slide said bolt to and from said locked position, an actuating member pivotally mounted on said door near the outer surface thereof, and a crank arm on said actuating member rotatably connected to said linkage, said actuating member arranged to lie flush with said door outer surface when said door is locked.

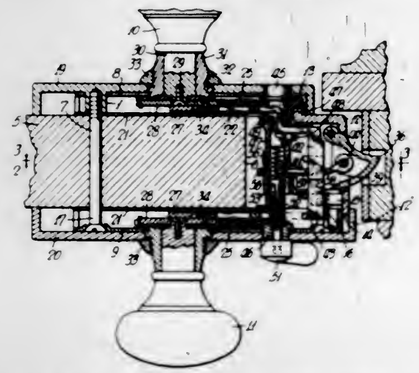
2,661,976
MEANS FOR ACTUATING THE DOOR LOCKS OF MOTORCARS
John H. Orr, Coventry, England, assignor to Carbodies Limited, Coventry, England
Application December 1, 1950, Serial No. 198,638
Claims priority, application Great Britain December 17, 1949
4 Claims. (Cl. 292—336.3)



1. Operating means, for a latch mechanism of a motor-car door having a waist rail, comprising an operating plunger within an opening in the waist rail, an open-ended housing fast with said waist rail and having one open end registering with said opening, said housing being for said plunger, means acting between said housing and plunger for limiting movement of the latter from a position in which the plunger head is substantially continuous with the waist rail when the latch-bolt is in latched position, to a depressed position inwardly of the adjacent open end of said housing, a reciprocable member adjacent and substantially aligned with the other open end of said housing and operatively connected to said latch mechanism, two laterally-

spaced pairs of facing cups with flat internal bottoms secured in juxtaposition to said plunger and member, and a thrust ball of less diameter than said bottoms interposed between the facing cups of each pair and separating the rims thereof whereby said member can be moved by a full depression of said plunger to move said latch-bolt to a non-latched position, an edge of said opening when said plunger is thus depressed providing a hand-hold by the use of which the door can be opened, and said thrust balls by being movable laterally in their coacting cups permitting relative lateral deviation of said plunger and member from the line of thrust.

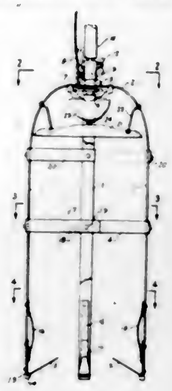
2,661,977
LOCK
Nicholas A. Welch, West Hartford, and William J. Zeigenhein, New Britain, Conn., assignors to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Original application September 14, 1945, Serial No. 616,354, now Patent No. 2,596,949, dated May 13, 1952. Divided and this application March 6, 1952, Serial No. 275,048
7 Claims. (Cl. 292—336.3)



1. In a lock, a pair of latch-case means to fit on opposite sides of a door, telescoping latch-front parts carried by said case means, whereby doors of different widths may be accommodated between said latch-case means, outer trim-plate means covering the outer of said latch-case means, securing means including a screw seated on the inner of said latch-case means and extending into concealed threaded engagement with said outer trim-plate means, said screw being accessible for actuation when the inner of said latch-case means is exposed, inner trim-plate means covering said inner case means and therefore the exposed part of said screw, knob means for said inner case means and journalled in said inner trim-plate means, and means for removably securing said inner trim-plate means to said inner case means.

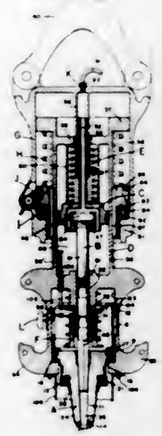
2,661,978
GRAPPLE
Timotheo Lauro, San Francisco, Calif.
Application June 25, 1951, Serial No. 233,299
2 Claims. (Cl. 294—67)

1. A life saving device for recovering a body from a well or the like, comprising an open frame structure adapted for lowering upon the body and including a plurality of straight legs arranged in circumferentially spaced relation and connected at their upper ends to form a substantially rigid crown, a belt encircling the legs intermediate their height for holding the legs in assembled relation, and gripping fingers hinged to the lower ends of the legs with freedom of swinging movement between positions ad-



jacent the legs and inwardly pointed positions, the legs being unconnected below the belt and flexible for independent yielding in response to resistance offered by the contour of the body upon which it is lowered.

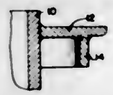
2,661,979
PIPE ELEVATOR
Albert L. Stone, Redondo Beach, Calif., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application October 25, 1948, Serial No. 56,402
8 Claims. (Cl. 294—96)



1. A pipe elevator for engaging with and suspending a pipe having its end terminating in a spiral screw thread comprising, in combination, a body, a chuck assembly carried by the lower end of the body including a plurality of jaw members mounted for radial movement outwardly from a retracted position to an extended position, the outer surfaces of said jaw members defining at least a portion of a screw thread adapted to mate with the screw thread of said pipe, resilient means in contact with said jaw members for holding them in the retracted position, an indexing member carried by said jaw members for indexing

the screw thread defined by said jaw members with the screw thread of said pipe, a mandrel carried by the body which may assume an upper position to retract the jaw members radially inwardly and movable to a lower position to force said jaw members radially outwardly and an assembly operatively connected to said mandrel for moving the mandrel from its upper position to its lower position or vice versa having a biasing means normally urging said assembly from an upper position to a lower position and having a fluid pressure means urging said assembly from a lower to an upper position.

2,661,980
STEEL WHEEL
Roy H. McElroy, Dayton, Ohio, assignor to International Clay Machinery Company, Dayton, Ohio, a corporation of Ohio
Application December 6, 1949, Serial No. 131,347
2 Claims. (Cl. 295—16)



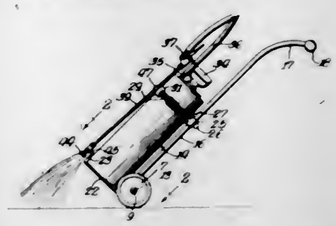
2. A weldment of the nature described for use as a car wheel comprising a flat flange plate cut from flat metal stock of uniform thickness, a central aperture in said flange plate, a tubular hub cut from tubular stock having a uniform thickness throughout, said hub extending through said aperture with its axis normal to the plane of the plate and welded to said plate on both sides thereof, a rim member comprising a strip of metal, said strip being cut from flat metal stock of uniform thickness and rolled up to form a cylinder with the ends of the strip welded together, said rim member mounted on one side of said plate concentrically with said hub and being welded to said plate on both sides of the edge of the rim member which abuts said plate, the weld material around said rim member on the outside thereof forming material for a fillet between the plate and rim member when the weldment is machined, said fillet being provided for engagement with the rail on which the wheel is to run.

2,661,981
INSECTICIDE PACKAGE
John A. Okie, Devon, Pa., assignor to Crystal X Corp., Lenni Mills, Pa., a corporation of Pennsylvania
Application July 12, 1949, Serial No. 104,303
3 Claims. (Cl. 299—24)



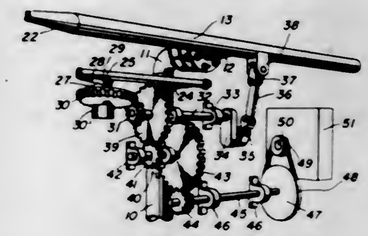
1. An insecticidal article which comprises: (1) a sealed bag of polyethylene sheet which freely passes the vapor of paradichlorbenzene and (2) solid paradichlorbenzene in the bag, the vapor of the paradichlorbenzene passing freely through the bag and entering the air around the bag, the polyethylene sheet being exposed freely to the atmosphere on the outside and to the paradichlorbenzene on the inside.

2,661,982
SPRAYER
Robert C. Hudson, Glencoe, Ill., assignor to H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota
Application February 25, 1949, Serial No. 78,295
5 Claims. (Cl. 299—43)



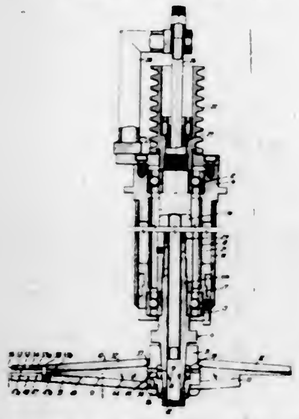
3. In a wheeled sprayer of the character described, a wheel axle having end portions adapted to receive wheels rotatably mounted thereon and having a saddle-shaped portion intermediate of said end portions, an upwardly projecting rod including a handle for manual manipulation of the sprayer, means for securing said handle to said axle, an arm secured relative to said axle and handle and projecting, substantially at right angles to said rod below and substantially centrally of said saddle-shaped portion, the outer end of said arm having an upwardly projecting portion terminating in a forked end having upwardly inclined tines, a saddle member secured to said rod above and in spaced relation to said axle and oriented in the same direction as respects said saddle-shaped portion, a substantially cylindrical tank supported at one end upon said arm and between said saddle-shaped portion of the axle and said upwardly projecting portion of said arm and resting in said saddle-shaped portion and said saddle member, and a spray head releasably carried by said forked end of said arm and having communication with said tank.

2,661,983
MUD GUN
William H. Endsley, Sulphur Springs, Tex.
Application March 5, 1951, Serial No. 213,942
8 Claims. (Cl. 299—62)



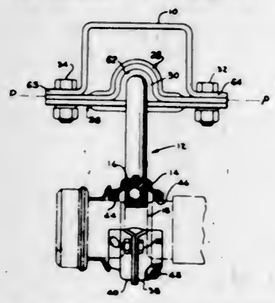
1. A mud gun including, an upright elbow having means for mounting it to swing horizontally on a vertical supply pipe, a laterally directed horizontal shank mounted in the opposite end of the elbow to rotate, a barrel medially fixed on the outer end of the shank, a rotatable shaft, actuating elements connected with and driven by one end of the shaft and connected with the elbow for swinging it, and actuating elements connected with and driven by the other end of the shaft and connected with the barrel for swinging it up and down.

2,661,984
CENTRIFUGAL ATOMIZER
David D. Peebles, Hillsborough, and Clarence P. Turner, Petaluma, Calif., assignors to Western Condensing Company, San Francisco, Calif., a corporation of California
Application January 16, 1951, Serial No. 206,162
3 Claims. (Cl. 299—63)



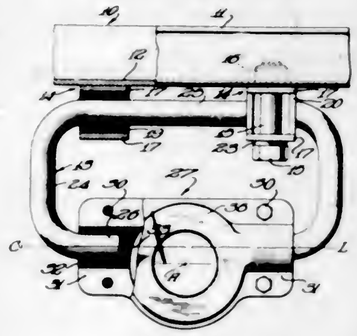
1. A centrifugal atomizing head comprising a pair of disc-like plates, a hub serving to carry said plates, means for clamping the plates into face to face relationship, means for feeding material into the interior of the hub, said plates having their opposed faces formed to provide an annular space communicating through spaced ports with the interior of the hub, whereby said space receives a coarse spray from the hub when the head rotates, circumferentially spaced ribs formed on the inner face of at least one of said plates and extending from the periphery of the same toward said hub, said ribs serving to form substantially rectilinear passages between the same for passage of feed material, the inner end portions of said ribs being tapered inwardly and spaced from the opposed face of the other plate to form vanes, the other portions of the ribs being in contact with the other plate for a substantial radial distance.

2,661,985
SHAFT HANGER CONSTRUCTION
Frederick M. Guy and Edward J. Herbenar, Detroit, Mich., assignors, by direct and mesne assignments, to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application September 14, 1950, Serial No. 184,848
20 Claims. (Cl. 308—28)



1. A resilient shaft hanger comprising a housing, a shaft journaling bearing carried in said housing, a pair of resilient bushings mounted in opposite sides of said housing, a C-shaped support member having each of its ends extending respectively into said resilient bushings, and a support bracket for attaching a portion of said C-shaped member intermediate its ends to a supporting structure.

2,661,986
RESILIENTLY MOUNTED SHAFT HANGER
Edward J. Herbenar, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 5, 1951, Serial No. 209,445
1 Claim. (Cl. 308—28)

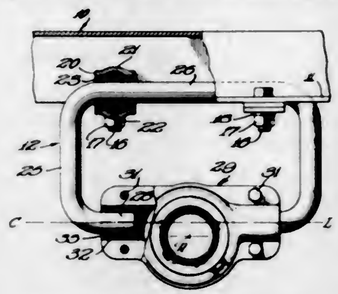


A resilient shaft hanger comprising a plurality of supporting brackets, each including a U-shaped metal strap, a bolt and a metal spacer between the legs of said strap having a portion conforming to said bolt and extending lengthwise and laterally of said bolt, an integral metal bar bent in the form of a C having a long portion extending through said brackets and having parallel short portions terminating in spaced opposed ends, a metal bearing housing for a driven shaft between said ends having aligned sockets for receiving said ends, a pre-loaded rubber bushing in each of said brackets between the bight of said strap and said metal spacer and completely encircling said long portion, and a preloaded rubber bushing in each of said sockets providing a thimble-shaped recess for one of said ends, whereby limited universality of movement of said bearing housing is accommodated wholly through distortion of the rubber of said bushings.

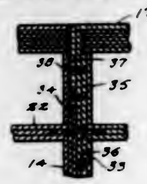
2,661,987
RESILIENTLY MOUNTED SHAFT HANGER ASSEMBLY
Edward J. Herbenar, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 5, 1951, Serial No. 209,447
1 Claim. (Cl. 308—28)

In a hanger mounting assembly for suspending a driven shaft from a structural channel beam open on its lower side and having flanges extending therealong, brackets secured to said flanges spanning said open side and having spaced portions defining aligned openings, rubber bushings in said openings, a shaft bearing hanger in the form of an integral C having a straight cylindrical portion mounted in said bushings and having opposed spaced end portions in alignment with each other, a shaft bearing housing having aligned sockets for receiving said

end portions and rubber bushings in said sockets mounting said end portions, wherein said first mentioned rubber bushings are of a degree of resiliency different from that of said second mentioned rubber bushings, and wherein all said rubber bushings are preloaded, whereby the transmission of vibrations from said drive shaft to said structural beam is effectively reduced.



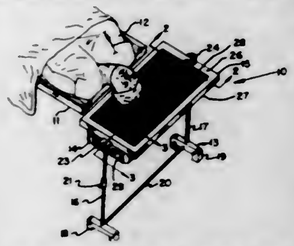
2,661,988
SECTIONAL CONNECTED READING AND RECITATION TABLE
Oscar H. Steene and Annabelle Steene, Twin Falls, Idaho
Application March 17, 1952, Serial No. 276,968
1 Claim. (Cl. 311—4)



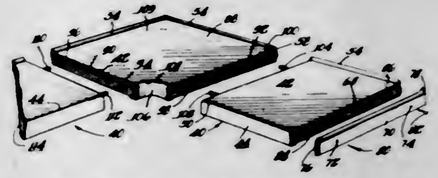
A sectional table having a U-shape in plan comprising a pair of table sections, each section being formed of a top member having a straight portion and an arcuate portion extending from one end of said straight portion, a vertical leg at each end of said straight portion, said legs having a width equal to the width of said top, a leg fixed to one of said top members at the free end of one of the arcuate portions thereof, said one leg having a horizontally disposed V-shaped keeper channel adjacent the upper end thereof, a short leg fixed to the other of said top members at the free end of the arcuate portion thereof, a V-shaped locking member formed on the lower end of said short leg engageable in said keeper channel for locking said sections against movement in a plane at right angles to the confronting faces of said one leg and said short leg, and cooperative positioning means carried by said one leg and said short leg for locking said one leg and said short leg against movement in a plane parallel to the confronting faces thereof.

2,661,989
SURGICAL TABLE
Herbert P. Weiland, Verona, Wis.
Application January 23, 1953, Serial No. 332,863
4 Claims. (Cl. 311—9)

1. An auxiliary surgical table comprising, a stand having vertically adjustable telescoping supporting members, a horizontally positioned ring secured to said supporting members, a pan supported by said stand within said ring, and a wire mesh cover for said pan, said pan and cover providing a supplementary operative area and a cooperating receptable for refuse.

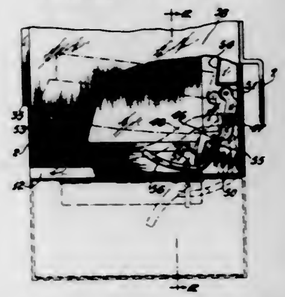


2,661,990
SECTIONAL TOP WITH EDGE BINDER
Harvey G. Knuth, Elgin, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois
Original application February 23, 1945, Serial No. 579,457. Divided and this application July 7, 1948, Serial No. 37,365
15 Claims. (Cl. 311—106)



10. An article for forming tops for kitchen cabinets to be cut to desired length at the point of installation comprising an elongated substantially rectangular body, said body having a pair of spaced apart longitudinally extending apertures formed therein at the ends thereof, and a continuous unbroken composition covering adhered to the top of said body and extending flush with said ends of said body, said body and covering being formed of materials that readily can be cut by ordinary carpentry tools.

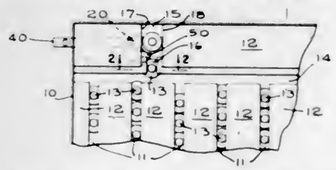
2,661,991
STERILE BRUSH DISPENSER
Joseph Petrecca, Bloomfield, N. J.
Original application April 14, 1950, Serial No. 155,834. Divided and this application November 13, 1950, Serial No. 195,358
1 Claim. (Cl. 312—70)



A sterile brush dispenser for the type of brush described, including a casing preferably of suitable metal and having internal dimensions to

properly hold a plurality of brushes in stacked relation on supports at the bottom of the casing with the backs of the brushes towards said supports and exit end of the casing, means for supporting the casing, means associated with the casing for allowing brushes to be placed therewithin, a fixed stop member for one end of the bottom brush, a member pivoted near the bottom of the side of the casing opposite to said fixed stop and having a stop portion normally extending downwardly and inwardly into the path of the downward movement of the brushes, said pivoted member having an upwardly extending part preferably carrying a roller normally out of the downward path of movement of a brush, a lever for moving the pivoted member so as to cause said stop portion to move out of the path of the bottom brush and cause it to drop downwardly at the same time moving the part carrying the roller into a stop position for the next downcoming brush, a cover hinged to the casing below the brushes and having an operating device attached thereto and means operatively connected between the lever and cover device for moving the cover to open position co-incident with the release of a brush whereby the bottom brush may be passed to a proper receptacle, and further defined in that when said lever is released from cover opening and brush releasing position, automatic means will act on said pivoted member, said lever and arm to restore them to normal position whereby a brush is moved to an unloading position onto said stops and the cover to closed position.

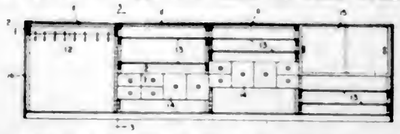
2,661,992
GATE MECHANISM FOR BOTTLE DISPENSING CONTAINERS
Larry M. Harris, San Jose, Calif.
Application September 8, 1951, Serial No. 245,725
4 Claims. (Cl. 312—88)



1. A gate mechanism for bottles comprising members arranged to form a channel adopted to guide bottles, a rotor mounted for rotation about a vertical axis and being of a diametrical size to effectively bar the channel for the passage of bottles, said rotor having a recess in its periphery adapted to receive a single bottle and to pass it upon rotation from one to the other end of the channel, latching means effective during said bottle passing rotation to engage said rotor and prevent rotation thereof in the opposite direction, and means operable to disengage said latching means and turn said rotor in said opposite direction.

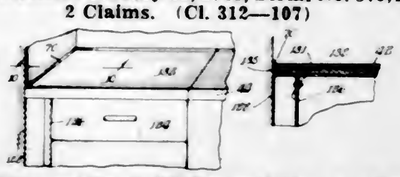
2,661,993
SECTIONAL FURNITURE
Robert A. Little, Cleveland, Ohio
Application October 6, 1948, Serial No. 53,091
4 Claims. (Cl. 312—107)

1. In an article of furniture, the combination of a series of endwise abutting L-shaped frame fixtures detachably connected to one another, said frame fixtures as thus connected together constituting the basic unit about which an article of furniture may be constructed, each of said frame fixtures comprising a pair of horizontally and vertically extending members with cross braces therebetween holding the same in parallel spaced relation, vertically adjustable and removable brackets disposed above said horizontal members and projecting horizontally from said vertical members, filler units removably supported at their opposite ends by said brackets,



each of said filler units being of a width substantially equal to the width of one or more of said frame fixtures whereby said filler units and brackets may be shifted to various positions and L-shaped frame fixtures may be added or subtracted to change the amount of space for filler units or the nature of said filler units.

2,661,994
SECTIONAL CABINET AND FILLER STRUCTURE THEREFOR
Harvey G. Knuth, Elgin, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois
Application February 23, 1945, Serial No. 579,457
2 Claims. (Cl. 312—107)

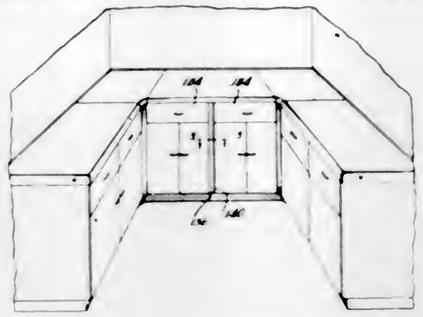


1. In a sectional kitchen cabinet, a cabinet open at the top and disposed with its back abutting a wall and one side spaced from an adjacent wall transverse to the first wall, a cover for said cabinet comprising a rectangular, substantially flat, body overlying the entire length of said cabinet and projecting therebeyond in abutting relation to said transverse wall, and a filler structure comprising upstanding and overlapping face panels filling the space between the transverse wall and the adjacent side of the cabinet, one of said face panels having a transverse flange at one edge for abutting the transverse wall and the companion face panel having at one edge a transverse flange secured to the adjacent side of the cabinet.

2,661,995
FILLER STRUCTURE FOR KITCHEN CABINETS
Harvey G. Knuth, Elgin, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois
Original application February 23, 1945, Serial No. 579,457. Divided and this application August 15, 1949, Serial No. 110,375
4 Claims. (Cl. 312—111)

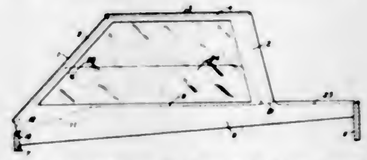
1. Interfitting scriber plates comprising a first scriber plate having a vertical basal wall and a horizontal forwardly extending overhanging wall terminating forwardly in an upwardly extending vertical front flange lying parallel to said vertical basal wall, said vertical flange having a laterally, normally extending integral flange formed with vertically spaced openings, said horzontal overhanging flange being of less width than the width of said basal vertical wall, and a second scriber plate of substantially the length as said upwardly extending vertical flange

of said first scriber plate, said second scriber plate having a first flange formed with spaced, vertically extending fastener openings, and a



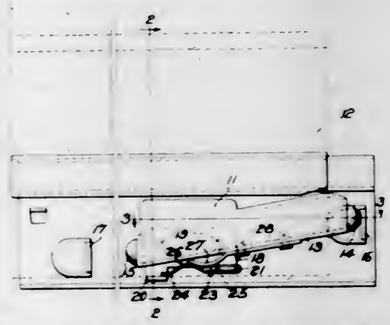
pair of spaced, parallel, relatively short flanges extending normally from the front vertical edge of said first flange to receive slidingly the vertical front flange of said first scriber plate.

2,661,996
DISPLAY CASE
Frederick S. Holderle, Harvey C. R. Holderle, and Norbert F. W. Holderle, Rochester, N. Y.
Application June 26, 1952, Serial No. 295,798
3 Claims. (Cl. 312—117)



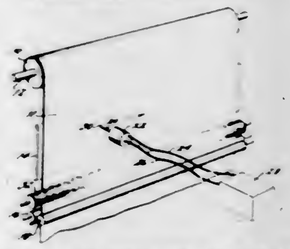
1. A display case including a bottom wall comprising a horizontal portion terminating at its forward end in a forwardly and downwardly inclined portion, supports in different horizontal planes located under the front end of said downwardly inclined portion and the rear end of said horizontal portion, a transparent panel inclined upwardly and rearwardly from the front end of said downwardly inclined portion at an acute angle thereto, a vertical partition member comprising a body portion with its lower edge supported on said horizontal portion of the bottom wall, a forwardly and downwardly inclined forward portion with its lower edge conforming to and supported on said downwardly inclined portion of the bottom wall, the upper edge of said forward portion of the partition member conforming to and located in juxtarelation to said transparent panel whereby said bottom wall, transparent panel, and vertical partition member form a bin the forward end of which inclines downwardly from the rear part of the bin, a flange extending laterally and perpendicularly away from the lower edge of the horizontal portion of the partition member and positionable on the horizontal portion of the aforesaid bottom wall, a flange extending laterally and perpendicularly in the opposite direction away from the lower edge of the downwardly inclined forward portion of the partition member and engaging the aforesaid downwardly inclined portion of said bottom wall, retaining bars extending endwise of the case at the front and rear of the bottom wall and each having a multiplicity of spaced vertically extending recesses, and said partition member being removably engageable with a selected recess in the front retaining bar by a forward movement relatively thereto and having interlocking means at its rear end selectively engageable with a recess in said rear retaining bar by a downward movement relatively thereto.

2,661,997
FRICTION DRAWER RETAINER
Rudolph H. Wilmer, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio
Application March 6, 1950, Serial No. 147,901
8 Claims. (Cl. 312—333)



8. In combination, a drawer guide, a drawer slidably disposed on said guide and movable thereon between open and closed positions, a stirrup secured to the side of the drawer, said stirrup having resilient means at the front and rear thereof and fixed abutments adapted to contact said means when the drawer is in its opened and closed position, respectively, a bracket secured in fixed position relative to the drawer guide, said bracket having flanges extending outwardly therefrom, a spring clip on the bracket and having one end secured to one of said flanges and the other end bearing against and slidably engaging the other flange, said clip having also a compressible bowed portion between its ends projecting toward the stirrup, said stirrup having a convex member for compressing said bowed portion when the drawer approaches its closed position and for engaging the rear side of said bowed portion when the drawer is in closed position.

2,661,998
ELECTRIC MARKING METHOD, APPARATUS, AND CARRIER FOR FACSIMILE SYSTEMS AND THE LIKE
Leopold Pessel, Springfield Township, Montgomery County, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1949, Serial No. 90,756
16 Claims. (Cl. 346—1)



1. In a method of marking indicia on a carrier element, the steps of providing a carrier with a

surface stratum that undergoes a local change in appearance when subjected to ultrasonic compressional vibrations, subjecting diminutive portions of said surface stratum to ultrasonic compressional vibrations to produce marks corresponding to said change in appearance and to provide a sequence of marks corresponding to the desired indicia.

2,661,999
HAMMER TYPE STAPLER
Morris Abrams, Brooklyn, N. Y., assignor to Arrow Fastener Co., Inc., Brooklyn, N. Y., a corporation of New York
Application August 17, 1951, Serial No. 242,246
36 Claims. (Cl. 1—49)

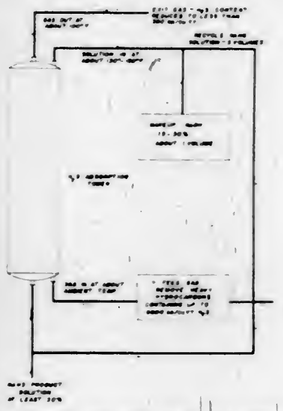
1. A hammer type tacker comprising a frame having a head at one end and a handle extension at the other, a staple magazine within the frame, a plunger slidably mounted within the head of the frame, a driver bar hinged at its rear end to the frame and having a front end disposed below the head of the frame, and adapted to contact a struck surface for rotating said bar about its



fulcrum, a lever within the frame pivoted medially the ends thereof to said frame, said lever having a rearwardly extending arm pivoted to an intermediate portion of the driver bar, and said lever having a forwardly extending arm having a pin and slot connection with the plunger.

CHEMICAL

2,662,000
PROCESS FOR MANUFACTURING SODIUM HYDROSULFIDE SOLUTION
Percy A. Maschwitz, Flossmoor, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application October 19, 1949, Serial No. 122,320
5 Claims. (Cl. 23—134)



1. A continuous process for the production of sodium hydrosulfide solution which comprises contacting, in an absorption zone, a fresh aqueous absorbent with a gaseous mixture consisting essentially of normally gaseous C_2 and C_3 hydrocarbons and containing hydrogen sulfide in an amount between about 0.25–20 per cent by weight, in the ratio of about 1–25 gallons of absorbent per 1000 cubic feet of gaseous mixture at operating conditions, said absorbent containing not less than 25 per cent by weight of solutes consisting essentially of sodium hydrosulfide and sodium sulfide, said sodium sulfide being present in an amount insufficient to cause incipient precipitation under operating conditions, at a temperature between about 100–150° F. to produce a spent absorbent containing not less than 25 per cent by weight of sodium hydrosulfide, withdrawing a minor portion of the absorbent from the absorption zone after said contacting, said withdrawn absorbent containing not less than 25 per cent by weight of sodium hydrosulfide, admixing the remaining proportion of the absorbent with an amount of aqueous sodium hydroxide solution insufficient to cause precipitation of sodium sulfide at said temperature to produce the aforementioned fresh absorbent, recycling said fresh absorbent to said absorption zone wherein it is contacted with additional amounts of said gaseous mixture in the aforementioned ratio, continuously repeating the foregoing cycle employing a recycle ratio of not less than about 4:1 while continuously withdrawing from said absorption zone a minor portion of the spent absorbent subsequent to the contacting of the fresh absorbent with hydrogen sulfide thereby continuously producing a concentrated solution containing not less than 25 per cent by weight of sodium hydrosulfide and a gaseous effluent consisting essentially of normally gaseous C_2 and C_3 hydrocarbons and containing not more than 300 grains of hydrogen sulfide per 100 cubic feet of gaseous effluent at standard conditions.

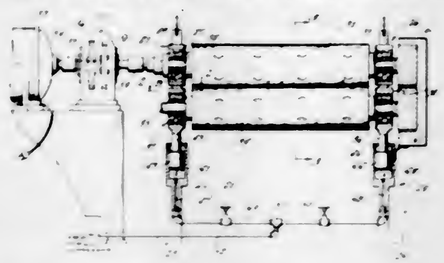
2,662,001
PLATE DESIGN FOR PULSE COLUMNS
William A. Burns and Warren F. Johnson, Richland, Wash., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application June 12, 1951, Serial No. 231,145
4 Claims. (Cl. 23—270.5)



2. A plate for a two-phase extraction column comprising a plate having a plurality of apertures therethrough, said plate comprising two layers of different materials having apertures in alignment, one of said materials being fluorothene and the other of said materials being stainless steel, the diameter of said apertures being 0.076 inch.

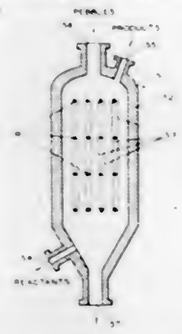
2,662,002
METHOD OF EMBOSSING ROLLS
Frederick A. Sunderhauf, Summit, and James C. O'Hear, Union, N. J.
Application February 14, 1951, Serial No. 210,885
4 Claims. (Cl. 41—43)

1. The method of making a pair of mated steel embossing rolls comprising embossing a top relatively soft roll with a master roll die to produce a top embossed roll having embossing projections thereon, fixedly securing permanently a helical gear to said embossed top roll, said gear having substantially the same diameter of said roll, coating said embossed top roll and the gear affixed thereto with a wax material, securing permanently a helical gear to a bottom roll, the diameter of said gear and of said bottom roll being substantially equal, contacting said coated embossed roll under variable pressure with said bottom roll to effect a crown on said bottom roll by end contacting of said top and bottom rolls to produce waxed and unwaxed areas on said bot-



tom roll, lowering said pressure waxed bottom roll with its first gear into an acid bath adapted to eat away metal from the unwaxed areas thereon, recoating said top roll with said wax material and again pressure contacting said recoated top roll with the bottom roll but with a pressure greater than that used previously, repeating said recoating and increased pressure contacting to produce a mated bottom roll adapted to completely receive the top roll embossing projections, and acid treating said bottom roll to produce a predetermined clearance between the embossing projections of the top roll and their mated recesses in the bottom roll.

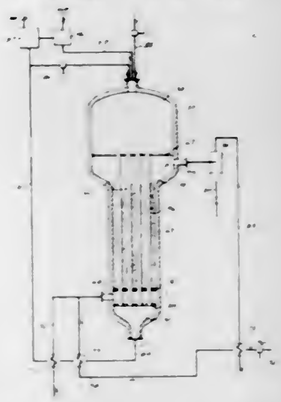
2,662,003
PROCESS FOR EFFECTIVE CATALYTIC CONVERSION OF HYDROCARBONS
Paul M. Waddill, Bartlesville, and Frank C. Fowler, Norman, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application April 8, 1946, Serial No. 660,362
15 Claims. (Cl. 48—75)



10. A process for effecting catalytic conversion of hydrocarbons which comprises continuously heating a contiguous, refractory mass of heat-transfer pebbles in an upper enclosed zone to a temperature above conversion temperature; gravitating the heated pebbles through a series of

parallel, vertical passageways between and in contact with vertical rows of gas-pervious catalyst masses in a conversion zone, passing a vaporous feed stream comprising principally hydrocarbon through said conversion zone so as to pass through said catalyst masses and catalytically convert the hydrocarbon to more desirable gaseous products; and recovering a gaseous product from the conversion zone.

2,662,004
METHOD OF PREPARING SYNTHESIS GAS AT ELEVATED PRESSURES
Leon P. Gaucher, Tuckahoe, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application October 1, 1948, Serial No. 52,324
2 Claims. (Cl. 48—196)

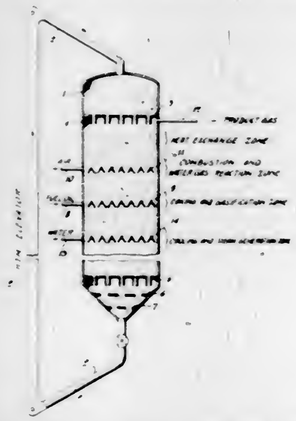


1. A process for continuously generating carbon monoxide and hydrogen which comprises passing a stream of a hydrocarbon gas and a reactant selected from the group consisting of steam, carbon dioxide and a mixture thereof into a reaction zone maintained at a temperature above 1,200° F. and a pressure above about 150 pounds per square inch gauge into contact with a bed of solid contact material in particle form maintained in dense fluid phase condition by the flow of reactants therethrough, effecting reaction between said hydrocarbon and said reactant within said reaction zone to form carbon monoxide and hydrogen, subjecting carbonaceous material to combustion in a separate combustion zone maintained at a temperature in the range of 1,800 to 3,600° F. and a pressure substantially equivalent to the pressure in said reaction zone and passing the resulting combustion gases maintained under said elevated pressure through said fluidized bed of solid contact material in indirect heat exchange therewith to supply heat to said reaction zone.

2,662,005
GASEOUS FUEL PRODUCTION
Louis P. Evans, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application January 12, 1953, Serial No. 330,840
5 Claims. (Cl. 48—197)

1. The process which comprises: passing a hot granular solid downwardly in series through a reactor comprising successively a heat exchange zone, a combustion and water gas reaction zone, a coking and gasification zone, and a cooling and

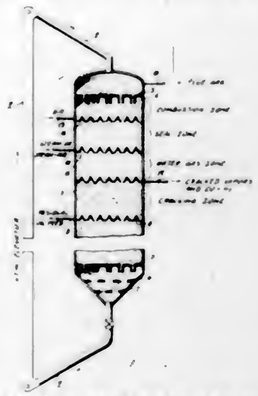
steam generation zone; passing water in direct contact with said solid in said cooling and steam generation zone at a temperature below about 1000° F., whereby steam is generated and flows upwardly through said reactor countercurrent to said solid; passing a hydrocarbon in direct contact with said solid in said coking and gasification zone, at a temperature between about 1000° F. and about 2000° F., and for a contact time between about 0.1 second and about 10 seconds, whereby said hydrocarbon fraction is gasified and flows upwardly through said reactor countercurrent to said solid; passing oxygen-containing gas in direct contact with said solid in said combustion and water gas reaction zone



at a temperature between about 1200° F. and about 2500° F. and for a contact time between about 0.5 second and about one minute, the amount of oxygen-containing gas so introduced being insufficient to cause complete combustion of said hydrocarbon gas passing upwardly through the reactor from said coking and gasification zone, said oxygen containing gas, hydrocarbon gas and carbon deposited on said solid reacting to form a product predominantly comprised of carbon monoxide and hydrogen, said product flowing upwardly through said reactor countercurrent to said solid through said heat exchange zone; and removing said product from an upper section of said reactor above said heat exchange zone.

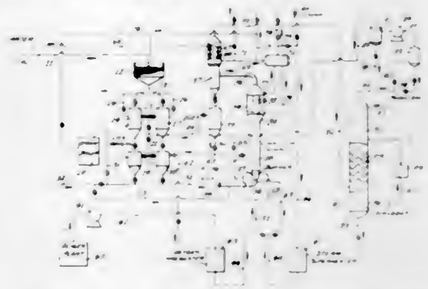
2,662,006
GAS MANUFACTURE
Sylvander C. Eastwood, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application January 16, 1953, Serial No. 331,542
5 Claims. (Cl. 48—197)

1. The process which comprises: passing a hot granular solid downwardly in series through a reactor comprising successively a combustion zone, a seal zone, a water gas reaction zone, and a cracking zone; passing a hydrocarbon in direct contact with said solid in said cracking zone under cracking conditions, whereby said oil is cracked to coke and to gaseous products which flow upwardly through said reactor countercurrent to said solid; passing steam in direct contact with said solid in said water gas reaction zone such that said steam flows downwardly therein with said solid, at a temperature between about 1200° F. and about 2500° F. and for a contact time between about 0.5 seconds and one minute, whereby said steam and a portion of the coke deposited on said solid react to form a product predominantly comprised of carbon monoxide and hydrogen, and removing said product from an intermediate section of said reactor between said water gas zone and said cracking zone; maintaining a seal zone above said water gas zone at a temperature substantially the same as



that maintained in said water gas zone; passing air into said combustion zone under conditions appropriate for converting a portion of the coke deposited on said solid in said cracking zone, to flue gas and removing said flue gas from an upper section of the reactor above the combustion zone.

2,662,007
GASIFICATION OF POWDERED CAKING TYPE COAL
Norman L. Dickinson, Basking Ridge, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application June 2, 1947, Serial No. 751,728
11 Claims. (Cl. 48—206)



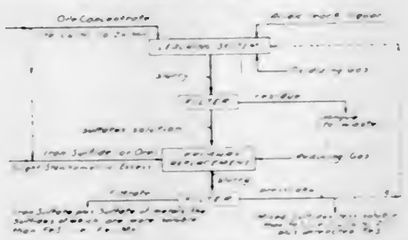
4. A process for the gasification of a caking type coal to produce a gas rich in hydrogen and carbon monoxide, which comprises passing a gaseous mixture of oxygen, steam and finely divided caking type coal which coal has a particle size less than about 250 microns upward through a reaction zone at a linear gas velocity between about 8 and about 100 feet per second such that the heaviest particles of finely divided coal continuously move in the direction of flow of the gases, maintaining said reaction zone at a temperature between about 1800° F. and about 2600° F. and under a pressure between about 250 and about 1000 pounds per square inch gage, maintaining the temperature of the inside of the reaction zone at a higher temperature than the temperature on the outside of the reaction zone, maintaining a residence time of powdered suspended coal in said reaction zone not substantially greater than about 10 seconds, whereby a gaseous effluent is produced rich in carbon monoxide and hydrogen and substantially free from methane, and withdrawing from said reaction zone such an effluent as a product of the process.

2,662,008
DEVICE FOR PROGRESSIVELY RELEASING A REAGENT IN A BATH OF MOLTEN METAL
Joseph K. Stone, Jr., Chicago, Ill., assignor to United States Steel Corporation, a corporation of New Jersey
Application August 17, 1950, Serial No. 179,979
5 Claims. (Cl. 75—93)



1. A device for gradually releasing a reagent in a bath of molten metal comprising an elongated metal capsule having a length several times its diameter and an axial bore of a uniform diameter and a length several times its diameter, said bore extending inwardly from one end of the capsule and terminating short of the other end, the wall of the capsule increasing in thickness from said one end toward the other end, and a charge of reagent in said bore.

2,662,009
GAS REPLACEMENT OF METAL SULFIDES
Edward S. Roberts, New York, and Patrick J. McGauley, Glen Cove, N. Y., and Felix Alfred Schaufelberger, Elizabeth, N. J., assignors to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware
Application November 15, 1949, Serial No. 127,452
9 Claims. (Cl. 75—108)

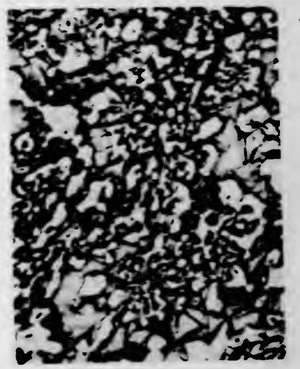


1. In a method of treating an ore concentrate, containing (*a*) a plurality of non-ferrous metal values, (*b*) acid-insoluble gangue and (*c*) at least one diluent metal, including the steps of subjecting the ore concentrate to a leaching operation, whereby substantially all the non-ferrous metal values and at least part of the diluent metal are dissolved as soluble salts in aqueous inorganic acid solution, removing the residual undissolved solids and precipitating from resultant solution at least one non-ferrous metal value as an insoluble sulfide thereof; the improvement which comprises: treating said clarified solution in a primary replacement under acid conditions simultaneously with (*a*) at least one replacement metal sulfide, the solubility of the least soluble replacement sulfide, at the replacement acidity, being greater than that of the sulfide of at least one non-ferrous metal value to be precipitated but not greater than that of the sulfide of any diluent metal, and (*b*) reducing agent in sufficient amount to insure substantially no oxidation of sulfide ions to free sulfur, whereby at least one dissolved non-ferrous metal is precipitated as metal sulfide; continuing treatment until non-ferrous metal sulfide precipitation substantially ceases and collecting resultant sulfide precipitate.

2,662,010
CAST TOOL STEEL
Robert D. Ahles, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 29, 1952, Serial No. 279,453
6 Claims. (Cl. 75—123)

1. A cast steel alloy consisting essentially, by weight, of from 1.5 to 2.25 per cent carbon, about 0.03 to 0.2 per cent magnesium, from 0 to 5 per cent chromium, from 4 to 6 per cent of each of the elements tungsten, molybdenum, cobalt and vanadium, with the balance essentially iron.

2,662,011
ABRASION AND CORROSION RESISTANT WHITE CAST IRON
Albert Paul Gagnebin, Red Bank, N. J., and Leslie Louis Seigle, Dorchester, Mass., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
Application August 20, 1951, Serial No. 242,722
8 Claims. (Cl. 75—128)



1. As a new article of manufacture, a white iron casting having included sections at least about one-half inch in thickness and being characterized by a fine-grain structure by a microstructure containing a primary massive carbide phase dispersed in a discontinuous manner throughout a continuous martensite-austenite phase and containing about 3% to about 3.7% carbon, about 0.5% to about 3% silicon, about 4% to about 8% nickel, about 6.8% to about 15% chromium, the carbon, silicon, nickel and chromium being present in such amounts as will satisfy the relationship expressed in the equation

$$\%\,C+\frac{\%\,Ni}{28}+\frac{\%\,Cr}{24}+\frac{\%\,Si}{4}=4.2 \text{ to } 5.0$$

about 0.2% to about 1.5% manganese, and the balance substantially all iron.

2,662,012

PREPARATION OF STRAW CELLULOSE

Pieter Hendrik Teunissen, Arnhem, Netherlands, assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware

No Drawing. Application March 22, 1950, Serial No. 151,299
Claims priority, application Netherlands July 29, 1949
2 Claims. (Cl. 92—9)

1. A process for the preparation of straw cellulose suitable for manufacturing paper which comprises digesting the straw for a period of time not more than about 3 hours and not less than about 2 hours in an aqueous solution consisting essentially of sodium hydroxide and sodium sulphide maintained in a temperature range between 115° C. and 130° C. and having a total content of alkaline agents from 7% to 9% based on the weight of the dry straw, said alkaline agents consisting of about 80% sodium hydroxide and about 20% sodium sulphide, the straw-liquid ratio being about 1:2.

2,662,013

DIAZOTYPE PHOTOPRINTING MATERIAL

John Sulich, Jr., Endicott, and Joseph E. Frederick, Johnson City, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 18, 1951, Serial No. 237,488
12 Claims. (Cl. 95—8)

1. A process for preparing diazotype photoprinting material, which comprises precoating a base material with a suspension of non-colloidal finely divided silica in an aqueous solution of a film-forming lyophile basic-to-amphoteric nitrogenous polymeric binder capable of reacting with an azo dye coupling component containing a hydroxyl group selected from the class consisting of phenolic and enolic hydroxyl groups, the weight ratio of the silica to said binder in said suspension being from 1:1 to 3:1, said finely divided non-colloidal silica being dehydrated silicic acid precipitated from aqueous solution, having a particle size range of 0.1 to 10 microns and a weight average particle size of 1 to 5 microns, drying the coating, and impregnating the resulting coated surface with a two-component diazotype sensitizing composition containing a light-sensitive diazo compound and an azo coupling component containing a hydroxyl group selected from the class consisting of phenolic and enolic hydroxyl groups.

2,662,014

PROCESS FOR INTENSIFYING SILVER PHOTOGRAPHIC IMAGES

Jacob Quentin Umberger, Holmdel, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 17, 1952, Serial No. 299,497
8 Claims. (Cl. 95—88)

1. A process for intensifying a silver photographic image which comprises treating a photographic element bearing a silver image in a water-permeable layer thereof, in an aqueous solution containing ferricyanide ions in an amount corresponding to 0.5 to 25.0 grams per liter of a soluble ferricyanide compound and at least one cation which forms relatively insoluble ferrocyanide and chromate compounds in an amount equivalent to 1.0 to 25.0 grams per liter of lead nitrate and treating the resulting relatively insoluble ferrocyanide salt image in an aqueous solution containing at least one polyvalent metal cation which forms a relatively water-insoluble ferrocyanide compound in an amount equivalent to 0.01 to 0.1 molar concentration of ferric salt and at least one blue-light-absorbing complex oxide anion of hexavalent chromium in an amount equivalent to 0.5 to 25.0 grams per liter of sodium chromate.

2,662,015

IMPROVED SHORTENING AND CAKE COMPOSITION

William C. Griffin, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 2, 1949, Serial No. 85,259
10 Claims. (Cl. 99—92)

1. A cake batter comprising shortening and from about 0.5 to about 6%, based upon the weight of the shortening of at least one compound of the generic formula $R(OCH_2CH_2)_nOR'$, in which R and R' are acyl radicals of straight-chain, monocarboxylic acids having from 12 to 18 carbon atoms, said acids being selected from the group consisting of ricinoleic acid, unsubstituted saturated acids and unsubstituted unsaturated acids having one carbon to carbon double bond, and n is an integer from 15 to 35.

2,662,016

CHEWING GUM BASE

Paul L. Merz, New Haven, Conn., and Frank Witzel and Allison S. Burhans, Canajoharie, N. Y., assignors to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York

No Drawing. Application October 21, 1950, Serial No. 191,492
12 Claims. (Cl. 99—135)

1. A chewing gum containing a vinyl ester-vinyl ether copolymer of the composition 85 to 5% of a vinyl ether consisting of one of the classes having the general formula

(1)
$$\begin{array}{l} R_1 \\ | \\ R_2-C-OCH=CH_3 \\ | \\ R_3 \end{array}$$

where R_1, R_2, R_3 selected from the group consisting of hydrogen, alkyl, aryl or aryl alkyl, and

(2) $$R-O-CH=CH_2$$

where R is an aryl or aryl alkyl grouping, and 15 to 95% of a vinyl ester of a monocarboxylic acid of the classes (1) having the general formula:

$$\begin{array}{l} R_1 \\ | \\ R_2-C-COOH \\ | \\ R_3 \end{array}$$

where R_1, R_2, R_3 selected from the group consisting of hydrogen, alkyl, aryl or aryl alkyl, and (2) benzoic acid and its alkyl substituted derivatives, and having a molecular weight such that the copolymer has desirable elastic and plastic properties for a chewing gum base.

2,662,017

METHOD FOR FILLING CONTAINERS

Russell H. Winters, Green Bay, Wis., assignor to The Larsen Company, Green Bay, Wis.

Original application February 11, 1947, Serial No. 727,796. Divided and this application December 1, 1950, Serial No. 198,600
1 Claim. (Cl. 99—171)

The high capacity continuous method of filling uniformly a procession of cylindrical containers with a plurality of separated layers of different foodstuffs, which comprises continuously moving the containers in said procession successively past a plurality of filling stations, depositing a predetermined amount of foodstuffs into each container as it passes each station, and intermittently dropping single parchment paper disks into the moving procession of containers at a location between the stations, the rate of dropping the disks being coincided with the movement of the containers whereby a disk is placed on the uppermost layer of each container at that particular location.



2,662,018

FROZEN FOOD INDICATOR

Clarence L. Smith, Seabrook, N. J.

Application June 14, 1949, Serial No. 98,950
6 Claims. (Cl. 99—192)



1. An indicator for a frozen food package comprising a transparent container and a frangible capsule within said container, said capsule and container being charged with differently colored liquids freezing and melting at approximately the safe temperature for preventing deterioration of quick-frozen food after freezing, one of said liquids freezing and melting at a lower temperature than the other the liquid charges in said container and capsule being respectively the lower freezing in the capsule and completely filling the latter and the higher freezing in the container but only partly filling it, whereby when said indicator is subjected to a temperature at which both said liquids freeze the capsule is burst by the liquid freezing therein without bursting the container.

2,662,019

PIPE JOINTING COMPOSITION

Raymond B. Seymour, Allentown, and Walter R. Pascoe, Reading, Pa., assignors to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa., a corporation of Pennsylvania

No Drawing. Application March 14, 1951, Serial No. 215,630
1 Claim. (Cl. 106—14)

A pipe jointing composition which consists essentially of a major proportion of sulfur, a silica aggregate and a compound of chromium selected from the group consisting of chromic acid, zinc chromate, lead chromate, barium chromate, sodium chromate and sodium dichromate, said compound of chromium being in the range of from about 0.5 to about 5% of the total weight of the sulfur and the aggregate.

2,662,020

REFRACTORY VITREOUS CERAMIC COATING MATERIAL

Henry Zane Schofield and Loran S. O'Bannon, Columbus, Ohio, assignors, by mesne assignments, to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

No Drawing. Application May 26, 1950, Serial No. 164,604
10 Claims. (Cl. 106—48)

1. A frit, used in making a refractory vitreous ceramic coating material capable of withstanding prolonged exposure to temperatures in excess of 1600° F., comprising from 20% to 50% titania and the balance essentially the constituents of a conventional ground-coat frit of the feldspar-borax-quartz type.

2,662,021

FURNACE BRICK

Frank O. Keltz, Latrobe, Pa., assignor to McFeely Brick Company, Latrobe, Pa., a corporation of Pennsylvania

No Drawing. Application October 17, 1951, Serial No. 251,819
4 Claims. (Cl. 106—63)

1. A silica brick formed of high silica material that is substantially free of alkalies and iron, and also containing lime and titanium oxide, the lime being approximately 2% (by weight of the mixture) and the titanium oxide being from .10% to .50% of the mixture, by weight.

2,662,022

SELF-HARDENING WATER-GLASS COMPOSITIONS

Karl Dietz, Kronberg, Taunus, Germany, assignor to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Bruning, Frankfurt am Main Hochst, Germany, a German company

No Drawing. Application November 25, 1950, Serial No. 197,645
Claims priority, application Germany December 20, 1949
7 Claims. (Cl. 106—74)

1. A self-hardening composition including a solid constituent and an aqueous water-glass constituent capable of yielding, upon hardening, a chemically-stable acid-resistant solid, wherein said solid constituent comprises an inert filler and 1–5% of glycolide, and said water-glass constituent is selected from the group which consists of sodium silicate solutions having a ratio of SiO_2 to Na_2O less than about 2.75 and a ratio of SiO_2 to H_2O higher than about 0.35, and potassium silicate solutions having a ratio of SiO_2 to K_2O less than about 2.25 and a ratio of SiO_2 to H_2O higher than about 0.35, the amount of said water-glass constituent ranging from about 25 cubic centimeters to about 30 cubic centimeters per 100 grams of solid constituent present in said composition.

2,662,023

COTTONSEED MEAL GLUE

Jett C. Arthur, Jr., Metairie, and Joseph T. Hogan, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application May 18, 1951, Serial No. 227,097
1 Claim. (Cl. 106—78)
(Granted under Title 35, U. S. Code (1952), sec. 266)

A cottonseed meal glue having good tack and a viscosity which remains in the order of 200

poises for at least 3 hours, which glue consists essentially of a dispersion in an aqueous sodium hydroxide solution having a pH from 11.5 to 12.5 of cottonseed meal containing at least 70% soluble nitrogen; from 10 to 20%, based on the weight of meal, of a silicate; from 10 to 20%, based on the weight of the meal, of calcium hydroxide; and from 1 to 2%, based on the weight of meal, of a substance yielding trichloroacetate ions in solution.

2,662,024

CEMENTITIOUS COMPOSITIONS

Wallace C. Riddell, Berkeley, and George B. Kirk, Redwood City, Calif., assignors, by mesne assignments, to Kaiser Gypsum Company, Inc., a corporation of Washington

No Drawing. Application March 1, 1951, Serial No. 213,483
11 Claims. (Cl. 106—109)

1. Cement for wallboard joints and surfaces containing from 35% to 50% of finely divided deadburned gypsum, from 15% to 20% of dextrin, from 5% to 10% of finely divided clay, from 10% to 20% of finely divided mica, from 10% to 20% of finely ground asbestos, and a small amount of Portland cement, said Portland cement being present in an amount of less than about 1%, said percentages being based on the total weight of the mixture.

2,662,025

LINOLEUM PASTE AND METHOD FOR MAKING SAME

Leslie L. Keene, Los Angeles County, Calif.

No Drawing. Application October 31, 1950, Serial No. 193,289
2 Claims. (Cl. 106—123)

1. A linoleum cement having a viscous, paste-like consistency consisting of about 1000 pounds of run-of-mine unground clay containing naturally occurring water in the amount of from 6% to 18% by weight, a lignin material selected from the group consisting of waste sulphite lignin pitch, waste sulphite lignin liquor and mixtures thereof, and water, the combined weight of the water content of said lignin material and said added water being about 700 pounds.

2,662,026

STABILIZED LACTIC CASEIN SOLUTION

Karl B. Daniloff, Seattle, Wash., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 16, 1949, Serial No. 88,030
9 Claims. (Cl. 106—143)

1. A stable lactic casein solution comprising lactic casein which has been freed from active proteolytic enzymes by heat treatment in the range of about 30 minutes at about 150° F. and about 10 to 30 minutes at about 170° F., water to produce approximately a 10% to 30% by weight lactic casein solution, and, for each 100 parts by weight of lactic casein, between about 10 and 40 parts by weight of borax, between about 2.5 and 10 parts by weight of boric acid, between about 1 and 5 parts by weight of a sodium salt of a mono-chlor-phenylphenol and between about 0.25 and 1 part by weight of sodium pentachlorphenate.

3. A stable pigmented emulsion paste paint made by intimately mixing a mixture comprising between about 20 and 60 parts by weight of a stable lactic casein solution as described in claim 1 together with approximately 4.3 parts by weight of a drying oil, approximately 2.0 parts by weight of an ammonia soap, approximately 9.6 parts by weight of a mineral pigment and approximately 46.4 parts by weight of a mineral filler.

2,662,027

POLYCHROMATIC COATING COMPOSITIONS

Ralph E. Pike, Rose Valley, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 13, 1951, Serial No. 215,393
7 Claims. (Cl. 106—193)

1. A polychromatic coating composition comprising an organic film-forming material, a colored pigment, and an aluminum flake pigment, said aluminum flake pigment constituting not more than 90% of the total pigment and having a covering area between 14,500 and 17,000 square centimeters per gram of flakes, not more than 20% of said covering area being contributed by flakes having a maximum dimension less than 5 microns and not more than 5% of said covering area being contributed by flakes having a maximum dimension greater than 25 microns.

2,662,028

MILL ADDITION AGENT FOR ENAMEL SLIPS

Walter M. Fenton, Minneapolis, Minn., assignor, by mesne assignments, to Lithium Corporation of America, Inc., Minneapolis, Minn., a corporation of Minnesota

No Drawing. Application January 5, 1950, Serial No. 137,041
6 Claims. (Cl. 106—194)

1. A mill addition agent, for the manufacture of silicious vitreous enamel slips, comprising sodium carboxymethyl cellulose and at least one lithium salt selected from the group consisting of lithium titanate, lithium manganite, lithium silicate, lithium zirconate, lithium zirconium silicate, lithium aluminate, and lithium cobaltite, said lithium salt being present in proportions approximately 2 to 4 times that of the sodium carboxymethyl cellulose.

2,662,029

PARAFFIN WAX HAVING LOW ELECTRICAL CONDUCTIVITY AND METHOD OF COATING GLASS THEREWITH

Kenneth N. Mathes and Thomas J. Rasmussen, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application October 17, 1950, Serial No. 190,668
2 Claims. (Cl. 106—270)

1. A composition of matter having a low electrical conductivity under high humidity conditions and consisting essentially of a paraffin wax having incorporated therein from 0.05 to 10 per cent, by weight of a polymethylchloropolysiloxane, based on the total weight of the latter and the paraffin wax.

2. The method for making a coated glass base having a low electrical conductivity under high humidity conditions, which process comprises coating the aforesaid glass base with a paraffin wax having incorporated therein from 0.05 to 10 per cent, by weight, of a polymethylchloropolysiloxane, based on the total weight of the latter and the paraffin wax.

2,662,030

BRIQUETTING ASPHALT COMPOSITIONS

Maurice W. Stacy, Valparaiso, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application November 24, 1950, Serial No. 197,502
2 Claims. (Cl. 106—279)

1. As a new composition of matter, a briquetting-asphalt comprising an asphalt having a softening point between about 125° and 150° F., a penetration at 77° F. of less than 15, a ductility at 77° F. of substantially less than 100, a flash point of between about 450–600° F. and an evaporation loss of less than about 0.5 per cent; and between 0.1 and 5.0 per cent, based on the asphalt, of the polymeric residue that is obtained as a distillate fraction boiling between about 400° and 750° F., having from about 11 to 35 carbon atoms per molecule and containing predominantly olefinic hydrocarbons and also organic oxygenated compounds, of the product of a hydrocarbon synthesis, the said combination having a softening point between about 115° and 140° F., a ductility at 77° F. greater than about 100 and the remaining characteristics substantially the same as the said characteristics for asphalt alone.

2,662,031

ARTISTS' WATER-COLOR PAINTS

Max R. Vogel and George D. La Barre, Easton, and William M. Perry, Bethlehem, Pa., assignors to Binney and Smith Company, Easton, Pa., a corporation of New Jersey

No Drawing. Application June 14, 1951, Serial No. 231,674
3 Claims. (Cl. 106—287)

1. A water color paint consisting essentially of about 30 parts by weight as a water soluble vehicle of a wax-like solid polyethylene glycol having a molecular weight from about 4000 to about 6000, from about 1 to 1.25 parts by weight of stearyl alcohol, from about 1 to 2 parts by weight of a modifying agent of the group consisting of polyhydric alcohols having from 2 to 6 carbon atoms, from about 1 to 2 parts by weight of water, and a coloring agent.

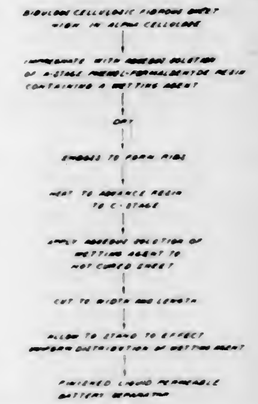
2,662,032

PROCESS OF MAKING A BATTERY SEPARATOR

Edwin C. Uhlig, Greenwood, and Linwood A. Murray, Jr., Cranston, R. I., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application August 4, 1951, Serial No. 240,315
5 Claims. (Cl. 117—4)

1. The process of making a liquid permeable battery separator which comprises impregnating a bibulous cellulosic fibrous sheet having an alpha cellulose content of at least 90 percent and having an air permeability (Gurley) of from 1 to 10 seconds with an aqueous solution of an A-stage phenol-formaldehyde resin and a wetting agent, in such manner that said sheet picks up from 25 to 50 percent by weight of said resin based on fiber plus resin, drying said sheet and thereby depositing said resin and wetting agent in and around the fibers of the sheet in such a way that upon advancing said resin to the C-stage said fibers will be protected against battery acid but the air permeability of the sheet will not be materially lowered, heating the dried sheet to a temperature of from 300° to 550° F. to advance said resin to the C-stage, applying an aqueous solution of the same wetting agent to the cured sheet, and cutting the resulting sheet into battery separators, the wetting agent applied from the aqueous solution of the resin greatly facilitating distribution of the aqueous solution of the wetting agent subsequently applied to the cured sheet, the total amount of said wetting agent introduced into the separator being equal to from 1 to 10 percent by weight based on the cured resin content of the separator, from one-third to one-half of said wetting agent being applied from



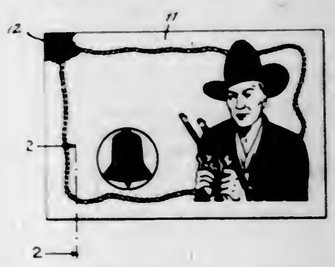
said resin solution and the balance of said wetting agent being incorporated with the cured sheet while in aqueous solution, said wetting agent being of a type which facilitates penetration of the finished separator by the battery acid, being devoid of objectionable contaminating influence in the battery, and being stable to battery acid, introduction of said wetting agent in the two-stage manner described giving results considerably superior to those which would be obtained were the same total amount of wetting agent introduced in only one of said stages.

2,662,033

PROCESS OF MAKING A LABEL

Clyde M. Andrew, Greensboro, N. C., assignor to Blue Bell, Inc., Greensboro, N. C., a corporation of North Carolina

Application December 1, 1950, Serial No. 198,705
6 Claims. (Cl. 117—8)



1. The process of making garment labels and the like comprising preliminarily subjecting a surface of a flexible base sheet of vinyl resin to an organic solvent of relatively low boiling point in hot vapor form, thereby liquifying the immediate surface portion of the sheet, then substantially immediately thereafter printing upon said surface, while said surface is partially liquified, with an ink comprising a pigment in

a compatible vinyl resin vehicle, whereby said vehicle dissolves in and integrally unites with the base sheet material, and thereafter removing residual traces of the solvent by drying.

5. The process as defined in claim 1, followed by the steps of heating the printed sheet to a temperature high enough to render the sheet in soft plastic form and while in this condition subjecting the sheet to compression between embossing members.

2,662,034

METHOD OF IMPREGNATING AN OXIDE COATING ON ALUMINUM AND RESULTING ARTICLE

Ralph B. Mason and William C. Cochran, New Kensington, Pa., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application July 14, 1950, Serial No. 173,956
10 Claims. (Cl. 117—49)

1. A method of impregnating an adsorbent artificially formed oxide coating on aluminum with resin, which consists in exposing the oxide coating to the vapors of at least one ordinary organocarbon substance providing monomeric synthetic resin forming reactants, in a closed container, at a temperature of at least about 200° F., whereby the vapors are adsorbed by the coating and therein polymerized to a resin.

2,662,035

METHOD OF STAINING GLASS, GLASS STAINING COMPOSITIONS, AND STAINED GLASS ARTICLE

Ormonde S. Levi, Toledo, Ohio, assignor to Verd-A-Ray Processing Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application May 13, 1953, Serial No. 354,894
32 Claims. (Cl. 117—65)

1. A method of staining glass surfaces which comprises forming a finely divided, uniform aqueous dispersion containing copper, silver and zinc salts and a water-soluble chloride compound in amounts sufficient to stain glass, and in proportions such that, based on the total amount of copper, silver and zinc present, calculated as metals, copper constitutes from about 15 per cent to about 90 per cent, silver at least about 0.875 per cent, and zinc at least about 1.7 per cent, and dissolved chlorine, based on the total amount of copper, silver and zinc present, calculated as metals, constitutes at least 1.4 per cent but not more than about 115 per cent, coating a glass surface with a dispersion containing the copper, silver and zinc salts and the water-soluble chloride compound, and heating the coated glass surface to at least 800° F., but not more than 1100° F. to produce a stained glass surface.

2,662,036

METHOD OF STAINING GLASS AND GLASS STAINING COMPOSITION

Ormonde S. Levi, Toledo, Ohio, assignor to Verd-A-Ray Processing Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application May 13, 1953, Serial No. 354,895
15 Claims. (Cl. 117—65)

1. A method of staining glass surfaces which comprises forming a finely divided, uniform oil dispersion containing copper, silver and zinc salts and an inorganic chloride compound in amounts sufficient to stain glass, and in proportions such that, based on the total amount of copper, silver and zinc present, calculated as metals, copper constitutes from about 15 per cent to about 90 per cent, silver at least about 0.875 per cent, and zinc at least about 1.7 per cent, and chlorine, based on the total amount of copper, silver, and zinc present, calculated as metals, constitutes at least 1.4 per cent but not more than about 115 per cent, coating a glass surface with said dispersion, and heating the coated glass surface to a temperature from about 800° F. to about 1100° F. to produce a stained glass surface.

2,662,037

METHOD OF STAINING GLASS AND GLASS STAINING COMPOSITION

Ormonde S. Levi, Toledo, Ohio, assignor to Verd-A-Ray Processing Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application May 13, 1953, Serial No. 354,896
12 Claims. (Cl. 117—65)

1. A method of staining glass surfaces which comprises forming a finely divided, uniform oil dispersion containing chlorine-free copper, silver and zinc salts and an organic chloride compound comprising at least one chlorine attached to a carbon atom of an aliphatic radical selected from the group consisting of trichloroacetic acid, benzyl chloride, di(chloroethyl) formal, and ethylene chlorobromide in amounts sufficient to stain glass, and in proportions such that, based on the total amount of copper, silver and zinc present, calculated as metals, copper constitutes from about 15 per cent to about 90 per cent, silver at least about 0.875 per cent, and zinc at least about 1.7 per cent, and chlorine, based on the total amount of copper, silver and zinc present, calculated as metals, constitutes at least 1.4 per cent but not more than about 115 per cent, coating a glass surface with said dispersion, and heating the coated glass surface to a temperature from about 800° F. to about 1100° F. to produce a stained glass surface.

2,662,038

WITHDRAWN

2,662,039

METHOD OF RENDERING ORGANIC TEXTILE MATERIAL WATER REPELLENT AND COMPOSITION THEREFOR

Alfred E. Brown and Arnold M. Sookne, Washington, D. C., and Francis W. Minor, Arlington, Va., assignors, by mesne assignments, to Harris Research Laboratories, a partnership

No Drawing. Original application February 6, 1947, Serial No. 726,950, now Patent No. 2,597,614, dated May 20, 1952. Divided and this application April 23, 1952, Serial No. 289,652
6 Claims. (Cl. 117—139.5)

2. The method of preparing an organic textile treating composition which comprises adding a solution of a mono-alkyl dichlorosilane and a di-alkyl dichlorosilane in the proportion of at least 1 part by volume of said di-alkyl dichlorosilane to 2 parts of mono-alkyl dichlorosilane to a water solution of sodium acetate, the proportion of water to said first-mentioned mono-alkyl and di-alkyl dichlorosilane solution being at least equal to twice the volume of said first-mentioned mono-alkyl and dialkyl dichlorosilane solution, and said sodium acetate being present in an amount at least sufficient to neutralize hydrochloric acid evolved in the hydrolysis of said mono-alkyl and di-alkyl dichlorosilanes, and agitating the mixture in the presence of an emulsifying agent, said emulsifying agent being present in the proportion of from 0.01 to about 5% by weight of the hydrolysis product of said mono-alkyl dichlorosilane, whereby an emulsion is formed.

6. A method of rendering an organic textile material water repellent which comprises treating said material with a diluent emulsion prepared in accordance with claim 2, drying the treated material, washing the dried material to remove the sodium acetate and emulsifying agent contained in said emulsion, and again drying and heat-curing said treated material.

2,662,040

MILDEW-RESISTANT MINERAL-COATED SOAP WRAP

Joseph J. Thomas, Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass., a corporation of Massachusetts

No Drawing. Application August 17, 1949, Serial No. 110,881
7 Claims. (Cl. 117—155)

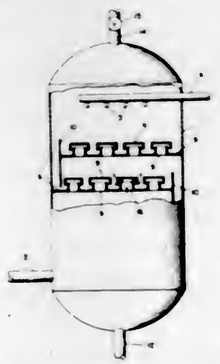
1. A mold-nutrient-free supercalendered mineral coated paper soap wrapper comprising a paper base and a mineral coating, said paper base consisting essentially of cellulose fibers and said mineral coating consisting essentially of finely divided mineral matter, a synthetic adhesive elastomer of the group consisting of styrene-butadiene copolymers, butadiene-acrylonitrile copolymers, styrene-isoprene copolymers, methyl acrylate-acrylonitrile copolymers and polychloroprene and a protective colloid of the group consisting of polyvinyl alcohol, methyl cellulose, carboxymethyl cellulose and hydroxyethyl cellulose.

2,662,041

PROCESS FOR CLEANING REFINING EQUIPMENT

Patrick F. Dougherty, Chester Heights, and Lloyd G. Magill, Parkland, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application December 30, 1949, Serial No. 136,118
5 Claims. (Cl. 134—5)



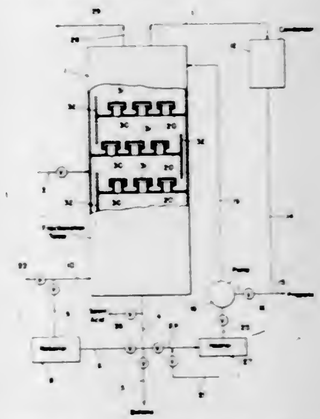
1. Process for removing sulfur from an absorption tower containing a plurality of bubble trays which comprises discontinuing normal operation of the absorption tower, introducing hot water into said bubble trays, introducing steam at a temperature of from about 125° C. to about 150° C. into the bottom of said tower and passing said steam up through the gas spaces in each of said bubble trays thereby causing agitation of the mixture of sulfur and water thereon so that said mixture of sulfur and water flows over the barriers of the trays to the bottom of said tower, maintaining the pressure within the absorption tower sufficient to maintain the temperature of said steam and said water therein above the melting point of sulfur, removing a mixture of water and sulfur from the bottom of said tower, and continuing said process until the sulfur is substantially completely removed from said tower.

2,662,042

PROCESS FOR CLEANING REFINING EQUIPMENT

Patrick F. Dougherty, Chester Heights, and Lloyd G. Magill, Parkland, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application February 1, 1950, Serial No. 141,691
7 Claims. (Cl. 134—22)



1. Process for removing scale deposited during normal operation of a fractionation tower containing vertically spaced bubble trays designed to retain liquid thereon which comprises continuously introducing an aqueous cleaning solution into the top of said tower while simultaneously introducing a gas inert to said aqueous cleaning solution into the tower bottom, passing said inert gas up through said bubble trays thereby providing agitation on said trays of a mixture of scale and cleaning solution whereby said mixture is flushed over the barriers of said trays, and removing cleaning solution contaminated with scale from the tower bottom.

2,662,043

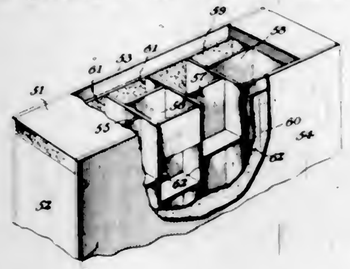
THERMALLY INSULATED BUILDING STRUCTURES, INCLUDING PANELS

MacMillan Clements, Bethel, Conn.

Application May 8, 1951, Serial No. 225,195
2 Claims. (Cl. 154—45)

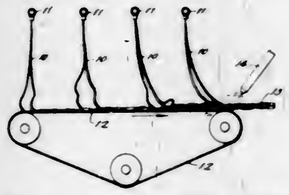
1. In a panel for buildings and refrigerators, said panel having low radiant heat emissivity, the combination of a plurality of grids each composed of a plurality of parallel strips of material in crossed relationship with a plurality of strips at right angles to the strips first named, each strip being composed of a pair of outside flat paper portions and an inside corrugated paper portion whereby said strips have substantially wide side edges composed of the combined edges of the flat paper portions and the corrugated paper portions, and at least three sheets of metal foil secured under compression and glued to certain of the said side edges of the grids to form with said grids a plurality of sandwiched constructions each comprising an intermediate grid with metal foil sheets on the opposite sides of

said grid, said grids being in parallel relationship with each other and providing with said metal foil sheets a plurality of air pockets with the air pockets of one of said grids staggered



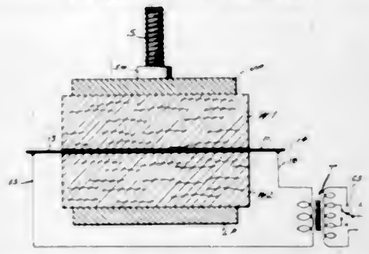
with respect to the air pockets of the next adjacent grid and the strips of one grid offset with relation to the strips of the next adjacent grid, a frame work surrounding the grids and metal foil sheets, the marginal edges of certain of the strips of said grids extending to the side edges of said framework and being at right angles to the side edges of certain other strips which latter are connected under compression to said metal foil sheets, whereby to fill the space defined by the framework, the air pockets of juxtaposed grids being of different area from each other adjacent the said framework.

2,662,044
COATED FABRICS
Albert R. Morrison, Newark, and Richard F. Shannon, Lancaster, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware
Application July 28, 1949, Serial No. 107,364
5 Claims. (Cl. 154—52)



1. An article of manufacture comprising a thin web of glass fibers in which the fibers are present in the form of endless lengths arranged in swirl patterns in overlapping relation, a thermoplastic resinous material binding the fibers one to another into a thin, non-woven textile and providing a receptive base for anchorage of a thermoplastic coating material onto the glass fiber surfaces, and a thermoplastic high polymer forming a continuous coating on the surfaces of the thin non-woven textile to produce a coated fabric having high flexibility, the thermoplastic binder being selected from the group consisting of butadiene-acrylonitrile copolymer, polyvinyl chloride, vinyl chloride-vinyl acetate copolymer, polyvinyl acetate, vinyl acetate-vinyl chloride acrylonitrile copolymer, polyvinyl butyral, polyacrylates, polyalkylacrylates, polybutylene, polesters, polysiloxanes, isoprene - isobutylene copolymer, butadiene-styrene copolymer, chloroprene, and a latex, and in which the high polymer for the surface coating is selected from the group consisting of vinyl polymers, vinyl derivative polymers and vinyl copolymers, polyethylene, polyamides, polyacrylates, polyalkylacrylates, butadiene-acrylonitrile copolmer, butadiene-styrene copolymer, chloroprene, isoprene - isobutylene copolymer, chlorinated rubber, rubber hydrochloride and a rubber latex.

2,662,045
METHOD OF MAKING JOINT
James M. Baggott, Zeigler, Ill.
Application April 27, 1949, Serial No. 89,978
8 Claims. (Cl. 154—126)



1. The herein described method of bonding a pair of solid elements, which consists in coating a conductive foil with a thermal curing resin of predetermined time-temperature setting characteristics, disposing the foil between the elements to be bonded, applying a heating current to the foil for a portion of the predetermined setting time thereof, and for a period of time sufficient to cause an appreciable thermal deformation of the foil during a time that the resin exists in a plastic condition.

2,662,046
PARENTERAL AMINO ACID SOLUTION
Eugene E. Howe, Bound Brook, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application June 19, 1948, Serial No. 34,151
6 Claims. (Cl. 167—58)

1. A parenteral solution of amino acids containing not more than 5% of the essential amino acids in the inactive D-form, solute components of said solution being free of dicarboxylic acids and comprising the natural essential amino acids, leucine, isoleucine, phenylalanine, valine, methionine, threonine, arginine, histidine, and lysine, racemic amino acids including tryptophane, the non-essential amino acid glycine, and an amount of a physiologically innocuous organic acid sufficient to neutralize the basicity of the basic amino acids arginine, histidine, and lysine.

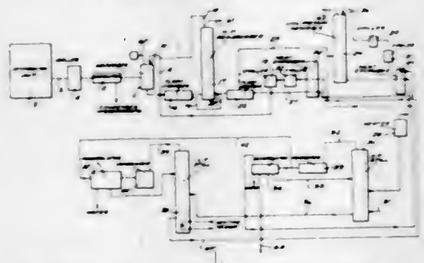
2,662,047
PROCESS FOR THE PREPARATION OF THERAPEUTIC COMPOSITIONS FROM SPLEEN TISSUE
Jesus M. Amozurrutia, Mexico City, Mexico, assignor to Miranda Brothers Trading Corporation, New York, N. Y., a corporation of New York
No Drawing. Original application November 27, 1945, Serial No. 631,230, now Patent No. 2,628,961, dated February 17, 1953. Divided and this application January 28, 1953, Serial No. 335,165
2 Claims. (Cl. 167—74)

1. The method of preparing a therapeutic composition comprising separating the benzol soluble from the benzol insoluble portions of the spleen tissue of a mammal, dissolving the benzol insoluble portion in water, separating any undissolved water insoluble materials therefrom, adding sufficient cold ethyl alcohol to the water extract to produce a concentration of 80 to 85% ethyl alcohol, separating the precipitate formed, redissolving said precipitate in water, removing any water insoluble material, adding sufficient alcohol to produce a mixture containing 80 to 85% ethyl alcohol, heating said mixture to about the boiling point thereof, removing any insoluble materials in said mixture, adjusting the pH of said mixture between 5 and 7 and permitting it to cool, removing the resulting precipitate and recrystallizing said precipitate with ethyl ether.

2,662,048
STABLE VITAMIN B_{12}-CONTAINING COMPOSITION
Walter A. Winsten, Forest Hills, N. Y.
No Drawing. Application December 19, 1950, Serial No. 201,689
1 Claim. (Cl. 167—81)

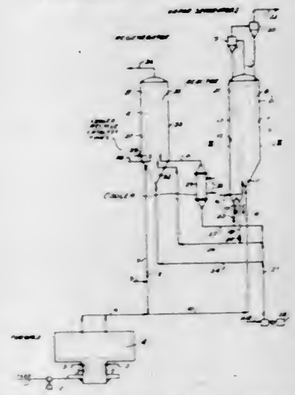
An aqueous vitamin composition comprising an aqueous solution of ascorbic acid, thiamine, and vitamin B–12, and as cooperating vitamin B–12 stabilizers, a higher fatty acid partial ester of a polyoxyalkylene derivative of a hexitol anhydride, sodium chloride, and the sodium salt of yeast nucleic acid.

2,662,049
RECOVERY OF HYDROCARBONS
Stuart F. Magor and Robert A. Daugherty, Houston, Tex., assignors to The Superior Oil Company, Los Angeles, Calif., a corporation of California
Continuation of application Serial No. 35,146, June 25, 1948. This application December 29, 1951, Serial No. 264,138
2 Claims. (Cl. 196—8)



1. A process for absorption-recovery of desired hydrocarbon fractions from gases, which comprises substantially completely dehydrating the gas, refrigerating the dehydrated gas to a temperature not above about 60° F., separately refrigerating a substantially completely dehydrated absorption oil to a temperature not above about 60° F., absorbing said desired fractions from the refrigerated gas in said dehydrated, refrigerated absorption oil, subjecting the resultant enriched oil to a relatively high pressure distillation step in the presence of an inert gaseous stripping medium to separate the undesired hydrocarbons therefrom, subjecting the resultant partially stripped oil to a low pressure dry distillation step to substantially completely remove therefrom the remaining absorbed hydrocarbons and water, at a temperature below the cracking temperature of the absorption oil, and returning the dehydrated oil to the second-mentioned refrigeration step, said absorption oil having an A. P. I. gravity above 42° and an average molecular weight below about 155.

2,662,050
CATALYTIC CONVERSION OF HYDROCARBONS
Joseph W. Moorman, Alpine, and Louis J. Kelly, Tenafly, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Continuation of application Serial No. 788,905, November 29, 1947. This application March 16, 1949, Serial No. 81,814
3 Claims. (Cl. 196—50)



1. A process for the catalytic cracking of heavy residual oils containing a substantial portion of constituents unvaporizable without decomposition to form lower boiling hydrocarbons in the motor fuel boiling range which comprises passing a stream of said residual oil upward through a cracking zone at a velocity limited to form a dense turbulent bed of catalytic material, introducing a stream of hot regenerated catalyst while said catalyst is at substantially regenerating temperature into said stream of oil while said oil is at an active cracking temperature but not higher than about 900° F. and a portion of which is in the liquid phase, the amount and temperature of the catalyst so introduced being sufficient to heat said oil above 900° F. and partially decompose the unvaporizable constituents contained therein to thereby form a relatively dry suspension of oil vapors and catalyst, maintaining the oil vapors in contact with the catalyst thus suspended therein within said cracking zone for a period sufficient to crack a substantial proportion thereof into motor fuel constituents, continuously separating a stream of finely-divided catalyst containing solid combustible deposits from the oil vapors by withdrawing directly from said dense bed of catalytic material, thereafter fractionating the oil vapors to segregate a motor fuel fraction therefrom, continuously passing a stream of said catalyst separated from said oil vapors into a regenerating zone, passing a stream of oxidizing gas upwardly through said zone at a velocity limited to form a dense, turbulent bed of catalytic material and oxidizing gas in the bottom section of said regenerating zone, burning combustible deposits from the finely-divided catalyst within said regenerating zone to thereby heat said catalyst to a temperature above the temperature maintained in said cracking zone but below the deactivation temperature of said catalyst, the density and turbulence of the catalytic material within said regenerating zone being sufficient to maintain a substantially uniform temperature throughout the regenerating zone, continuously withdrawing a stream of regenerated catalyst directly from said dense bed of catalytic material of the regenerating zone and

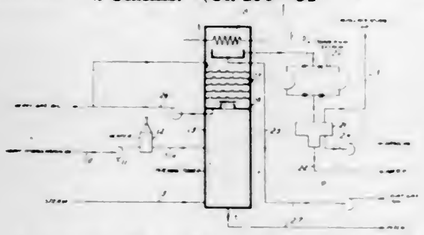
continuously returning said catalyst to said oil stream while at substantially its regenerating temperature.

2,662,051

CONVERSION OF HEAVY HYDROCARBONS

Harry Louis Pelzer, Ogden Dunes, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application December 28, 1949, Serial No. 136,069
2 Claims. (Cl. 196—51)



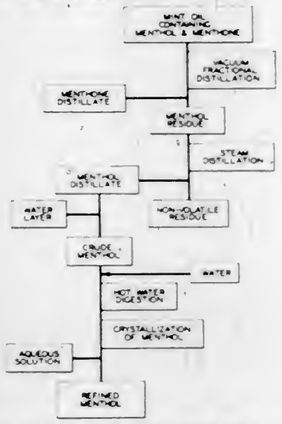
1. A process for treating heavy hydrocarbon oils which comprises preheating the charge oil to an incipient cracking temperature of about 850° F. to 950° F. for about 2 to 15 minutes and limiting the percent crack to below about 10 percent based on 400° F. and point gasoline and lighter materials, flashing the preheated charge in a tower maintained at a pressure of atmospheric to about 10 p. s. i. g., reducing the temperature within the flash zone to about 790° F. to 850° F. by introduction into the tower of about 10 to 25 weight percent of steam having a temperature from about 212° to 300° F., and removing vaporized materials and bottoms from the flash tower.

2,662,052

SEPARATION OF MENTHOL FROM MINT OILS BY A FRACTIONAL DISTILLATION PROCESS

Grover L. Bridger, Ames, Iowa, and Hson M. Chang, Kowloon, Hong Kong, assignors to Iowa State College Research Foundation, Inc., Ames, Iowa, a corporation of Iowa

Application July 24, 1951, Serial No. 238,398
5 Claims. (Cl. 202—46)



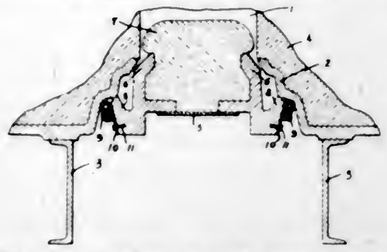
1. In a process for the separation of menthol from naturally-occurring mint oils containing menthol and menthone, the steps of distilling off menthone and lower boiling fractions under vacuum, steam distilling the unvaporized material to separate a menthol-containing fraction, and digesting the menthol-containing fraction in boiling water to purify the menthol.

2,662,053

HERMETIC SEAL FOR COKE OVEN DOORS

Walter T. Brown, Pittsburgh, Pa.

Application September 26, 1950, Serial No. 186,739
9 Claims. (Cl. 202—243)



1. The combination with a coke oven structure having an opening therein, a door frame surrounding said opening, a door for closing said opening by metal-to-metal contact with said door frame, and hermetic sealing means surrounding said door and engageable with a portion of the door frame adjoining said metal-to-metal contacting portions, said hermetic sealing means comprising a tubing of high temperature rubber with a conduit therethrough for the passage of cooling fluid to improve the heat stability and elasticity of said rubber.

2,662,054

METHOD OF ELECTRODEPOSITING CHROMIUM DIRECTLY ON ALUMINUM

Frank Passal, Detroit, Mich., assignor to United Chromium, Incorporated, New York, N. Y., a corporation of Delaware

No Drawing. Application September 8, 1950, Serial No. 183,905
3 Claims. (Cl. 204—33)

1. A method of electrodepositing chromium directly on aluminum, consisting essentially of immersing an aluminum article to be electroplated for about 10 to 15 seconds in an aqueous alkaline zincate cuprocyanide solution to form a zinc-copper immersion coating thereon, removing said article and immersing the same in a nitric acid solution to remove said zinc-copper immersion coating, immersing the article a second time for not more than 15 seconds in the aqueous alkaline zincate cuprocyanide solution to form another zinc-copper immersion coating thereon, removing the article from the latter solution, then immersing said coated article in a chromic acid chromium plating bath to completely strip the zinc-copper immersion coating and within 15 seconds passing electric current to said immersed stripped aluminum article as a cathode to electrodeposit chromium thereon, thus producing a chromium plated aluminum article having no intermediate coating between the chromium and the aluminum.

2,662,055

OIL COMPOSITIONS

Charles C. Towne, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application August 25, 1949, Serial No. 112,399
9 Claims. (Cl. 252—32.7)

1. A substantially non-foaming and non-gas entraining composition of matter comprising a major portion of a liquid hydrocarbon oil and a minor proportion of an additive and a liquid dihydrocarbon silicone polymer of a minimum viscosity of about 900 cs.

2,662,056

LUBRICATING COMPOSITIONS

Paul R. McCarthy, Allison Park, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application June 30, 1949, Serial No. 102,450
9 Claims. (Cl. 252—49.5)

1. A lubricant consisting essentially of a dispersion of a minor amount of water and a compound of a bentonite and an organic-nitrogen base in a major amount of a mineral oil, wherein the amount of said bentonite compound in said lubricant is sufficient to produce a composition having the consistency of a grease and wherein said water is present in an amount sufficient to increase the consistency of the lubricant.

2,662,057

LUBRICATING COMPOSITIONS

Paul R. McCarthy, Allison Park, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application June 30, 1949, Serial No. 102,446
5 Claims. (Cl. 252—49.7)

1. An improved lubricant consisting essentially of a dispersion of a compound of a bentonite and an organic nitrogen base in a major amount of a mineral oil and a diaryl amine, wherein the amount of said bentonite compound in said lubricant is sufficient to produce a composition having the consistency of a grease and wherein the amount of said diaryl amine is sufficient to stabilize the lubricant against oxidational deterioration.

2,662,058

PETROLEUM LUBRICATING JELLY

Paul R. McCarthy, Allison Park, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application June 30, 1949, Serial No. 102,448
7 Claims. (Cl. 252—49.7)

1. A thixotropic petroleum lubricating jelly consisting essentially of a mixture of a major amount of a petroleum lubricating oil with a wax having a wax melting point above about 120° F., the amount of said wax being sufficient to provide an oil-wax mixture having a cloud point above about 110° F., and having incorporated therein an amount of a compound of a bentonite and an organic nitrogen base such that the ratio of bentonite compound to wax by weight is not greater than 1:1.

2,662,059

LUBRICATING COMPOSITIONS

Paul R. McCarthy, Allison Park, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application June 30, 1949, Serial No. 102,449
14 Claims. (Cl. 252—49.7)

1. A lubricating composition consisting essentially of a dispersion of a compound of a bentonite and an organic nitrogen base in a major amount of an ester of an aliphatic dibasic acid, said ester having a majority of the properties of a hydrocarbon oil of lubricating grade, wherein said bentonite compound is dispersed in said ester in an amount sufficient to produce a composition having the consistency of a grease.

2,662,060

SELF-ACTIVATED ZINC SULFIDE PHOSPHORS

Ferdinand Anne Kröger, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

No Drawing. Application April 19, 1950, Serial No. 156,931
Claims priority, application Netherlands July 16, 1949
3 Claims. (Cl. 252—301.6)

1. A luminescent material consisting of a compound selected from the group consisting of sulphides, selenides and sulpho-selenides of zinc and cadmium and about 10^{-5} to 30 atoms of aluminum for each one hundred atoms of zinc plus cadmium.

2,662,061

PREPARATION OF LATEX STABILIZER DISPERSIONS

John R. Gilcrease and Mack C. Fuqua, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 30, 1950, Serial No. 182,418
1 Claim. (Cl. 252—311)

A method of preparing an aqueous stabilizer dispersion of fine particle size which comprises mixing 100 parts of 2,6-ditertiary butyl-4-methyl phenol, 5 to 60 parts of sodium sulfonate and 5 to 30 parts of an aliphatic alcohol of 3 to 8 carbon atoms, heating the resulting mixture at about 240° F. while agitating and quenching the resulting heated dispersion with sufficient cold water to give a stabilizer concentration of about 5 to 30%.

2,662,062

RESOLVING EMULSIONS

Simpson D. Sumerford, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 26, 1950, Serial No. 181,693
6 Claims. (Cl. 252—328)

1. A process for desalting petroleum oils which comprises mixing the oil with a first body of water having a pH different from 7, passing the oil and water mixture into a second body of water having a pH adapted to neutralize the said first body of water and thereafter separating and removing the water fraction from the oil.

2,662,063

CATALYST COMPOSITION

Donald C. Christain and Robert M. Reed, Louisville, Ky., assignors, by mesne assignments, to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware

No Drawing. Original application March 8, 1948, Serial No. 13,738. Divided and this application July 21, 1951, Serial No. 238,004
5 Claims. (Cl. 252—470)

1. An improved catalyst compact obtained by compressing under a pressure of at least 35,000

pounds per square inch an intimate mixture of ingredients consisting essentially of iron oxide, chromium oxide, a small amount of lubricant, and from about 21% to about 28% water of which between about 8% and about 15% is free water, said compact being substantially free of water soluble materials and capable of being heated from ordinary temperatures to elevated temperatures, by passing steam in contact therewith, without impairment of the physical or catalytic properties of the compact.

2,662,064

DECORATIVE WALL SURFACING MATERIAL

George H. Mead, Detroit, Mich., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application January 12, 1949, Serial No. 70,607

2 Claims. (Cl. 260—17)

1. A decorative wall surfacing composition which can be applied to walls and ceilings by spray gun application, has sufficient body in the freshly applied wet state so that it will stay in place on smooth vertical wall surfaces, and can be applied by spraying any time during a period of three or four hours after its ingredients are mixed together, said composition consisting mainly of the following ingredients in the proportions by weight of:

	Parts
Hydraulic-setting cement	30
Inert fibrous and non-fibrous fillers and pigments	45–90
Hard rubbery copolymer of about 70 parts styrene and about 30 parts diene hydrocarbon copolymerizable therewith, in stabilized latex form	10–20
Water-soluble thickener selected from the class consisting of hydroxyethyl starch dextrin, hydroxyethyl cellulose and sodium carboxymethyl cellulose	about 1–4

And water to provide a sprayable consistency.

said composition, upon application to a wall and drying in situ, providing a wall surfacing having a high specific adhesion to smooth underlying surfaces and a good resistance to abrasion, and presenting a smooth uniform appearance.

2,662,065

PROCESS FOR OBTAINING DISPERSIONS OF POLYFLUOROETHYLENES

Kenneth L. Berry, Hockessin, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 10, 1951, Serial No. 225,677

11 Claims. (Cl. 260—29.6)

1. A process for obtaining colloidal dispersions of polymeric completely halogenated polyfluoroethylenes, said process comprising polymerizing at a temperature of 0° C. to 100° C. under a pressure of 1 to 1,000 atmospheres with agitation a monomeric completely halogenated polyfluoroethylene in an aqueous medium containing a peroxy polymerization catalyst and 1% to 10%, by total weight of said aqueous medium, of a 2- to 21-carbon atom saturated fluorine-containing compound in which any atoms contained therein other than carbon and fluorine consist of those selected from the group consisting of hydrogen and chlorine, said last mentioned atoms when contained in said fluorine-containing compound being present therein in amount of not more than one hydrogen atom and not more than two chlorine atoms, said hydrogen and chlorine atoms being attached to chain carbon atoms substituted only with fluorine, said saturated fluorine-containing compound being liquid under the prevailing polymerization conditions.

2,662,066

ADHESIVE COMPOSITION COMPRISING A UREA-ALDEHYDE RESIN AND TETRAHYDRAFURFURYL ALCOHOL

Laurence E. Clark, Jr., and Carl F. MacLagan, Bainbridge, N. Y., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 28, 1947, Serial No. 782,674

2 Claims. (Cl. 260—30.4)

1. An adhesive composition comprising a urea-aldehyde resin and a non-crazing agent comprising tetrahydrofurfuryl alcohol, the mol ratio of said tetrahydrofurfuryl alcohol being within the range between 0.1 to 1.0 mol of tetrahydrofurfuryl alcohol per mol urea in the resin.

2,662,067

MOLD MAKING COMPOSITION

Frank W. Less, Kenmore, Eugene C. Roeck, Buffalo, and Jay C. Searer, Kenmore, N. Y., assignors to Durez Plastics & Chemicals, Inc., North Tonawanda, N. Y., a corporation of New York

No Drawing. Application April 12, 1951, Serial No. 220,703

4 Claims. (Cl. 260—33.4)

1. A mold forming composition consisting essentially of a major proportion of sand and a minor proportion of a powdered thermo-setting resin, and an adhesion agent on the surface of the sand particles causing the resin to adhere thereto, said agent being liquid at a temperature below the quick setting temperature of the resin and containing a substantial proportion of at least one compound selected from the group consisting of glycerine, ethylene glycol, diethylene glycol and unpolymerized esters thereof, said agent being more viscous than water, having a low vapor pressure, and being of such character and in such quantity that the material is free flowing and non-balling and dry to the touch.

2,662,068

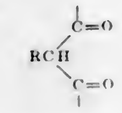
ORGANIC SOLVENT GELS

Don E. Floyd, Robbinsdale, Minn., assignor to General Mills, Inc., a corporation of Delaware

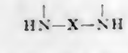
No Drawing. Application March 16, 1951, Serial No. 216,090

15 Claims. (Cl. 260—33.6)

1. An organic solvent gel containing an organic solvent having a hydrocarbon group containing at least 6 carbon atoms, and containing from ½–5% of a resinous polyamide gelling agent, said polyamide containing a diacyl group of the formula



in which R is an aliphatic hydrocarbon substituent containing from 6 to 16 carbon atoms, and containing a polyamino group of the formula



in which X is a divalent organic radical which separates the amino groups by a chain of at least 3 atoms in length, said chain being selected from the group consisting of carbon chains and carbon chains interrupted solely by nitrogen.

2,662,069

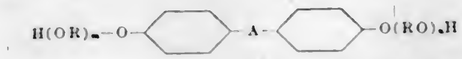
LINEAR POLYESTER RESINS

Peter Kass, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 14, 1950, Serial No. 190,239

15 Claims. (Cl. 260—45.4)

2. A thermoplastic, curable resinous esterification product of 1,2-dicarboxy ethene with a substantially stoichiometrically equivalent quantity of a mixed diol consisting of from about 50 to about 90 mol per cent of a diol conforming to the formula



wherein R represents an alkylene radical of from 2 to 3 carbon atoms, A represents a 2-alkylidene radical of from 3 to 4 carbon atoms, m and n are each at least one and the average sum of m and n is not over 3; and from about 50 to about 10 mol per cent of a lower alkylene glycol selected from the group consisting of ethylene glycol, diethylene glycol, propylene glycol and dipropylene glycol; said product having a melting point of at least 90° C.

12. The resinous product comprising the copolymerization product of from 90% to 10% of a polymerizable vinyl compound and from 10% to 90% of the product of claim 2.

2,662,070

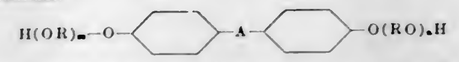
QUICK CURING POLYESTER RESINS

Peter Kass, Wilmington, and Baak W. Lew, Arden, Del., assignors to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 14, 1950, Serial No. 190,240

12 Claims. (Cl. 260—45.4)

1. A thermoplastic, curable, resinous esterification product of 1,2-dicarboxy ethene with a substantially stoichiometrically equivalent quantity of a mixed polyol consisting of (a) at least 50 mol per cent of a diol conforming to the formula



wherein R is an alkylene radical having from 2 to 3 carbon atoms, A is a 2-alkylidene radical having from 3 to 4 carbon atoms, m and n are each at least one and the average sum of m and n is not over 3, (b) from about 1 mol per cent to about 10 mol per cent of a polyhydric alcohol containing from 3 to 6 carbon atoms and at least 3 hydroxyl groups, and (c) from 0 to 49 mol per cent of a lower glycol selected from the group consisting of ethylene glycol, diethylene glycol, propylene glycol and dipropylene glycol, said product having a melting point of at least 80° C.

10. The insoluble, infusible resinous product obtained by copolymerizing, under curing conditions, from about 75% to about 25% by weight of the product of claim 1 with from about 25% to about 75% by weight of a polymerizable monomeric vinyl compound.

2,662,071

PROCESS OF PRODUCING DICYANDIAMIDE-UREA - FORMALDEHYDE IMPREGNATING AGENTS

Egon Elöd, Badenweiler, Germany

No Drawing. Application February 10, 1950, Serial No. 143,612

Claims priority, application Switzerland February 16, 1949

7 Claims. (Cl. 260—69)

1. The method of preparing stable impregnating agents for finishing fibrous and fiber-containing materials and articles, said agents consisting of water-soluble precondensates of synthetic resins which are stable on storage, and which dissolve to form a crystalloid dispersion, which comprises reacting formaldehyde with urea and dicyandiamide in the presence of water in a substantially neutral reaction medium at a moderately elevated temperature below the boiling point, thereby producing mixed precondensates which are soluble in water to form a crystalloid dispersion, the quantity of the condensed dicyandiamide being so regulated that a sufficient amount is present to stabilize the mixed precondensate, there being present not less than 1 part by weight of dicyandiamide for every 3 parts by weight of urea.

2,662,072

PROCESS FOR COPOLYMERIZING $CF_2{=}CF_2$ WITH $CF_2{=}CFCl$

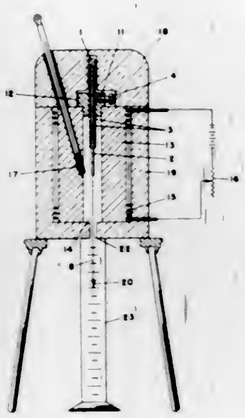
William T. Miller, Ithaca, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application June 30, 1948, Serial No. 36,115

3 Claims. (Cl. 260—87.5)

1. The method which comprises copolymerizing tetrafluoroethylene and trifluoromonochloroethylene in the presence of trichloroacetyl peroxide as a polymerization promoter at a temperature in the range of —20° C. to 0° C. to pro-

duce a plastic copolymer composed of about 25% to about 85% by weight of tetrafluoroethylene



and composed for the balance substantially entirely of trifluoromonochloroethylene.

2,662,073

GLUCONAMIDES

Charles L. Mehltretter and John C. Rankin, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application April 27, 1951, Serial No. 223,429
8 Claims. (Cl. 260—102)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A compound of the formula:

$$RNHCO(CHOH)_4CH_2OH$$

in which R is a hydrocarbon radical taken from the group consisting of alkyl radicals having from 8 to 18 carbon atoms and rosin radicals.

8. The compound, N-rosin gluconamide.

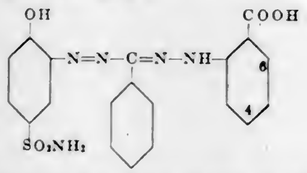
2,662,074

COPPER COMPLEXES OF MONOSULFONAMIDO FORMAZYL DYES

Robert A. Brooks, Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 5, 1952, Serial No. 291,969
1 Claim. (Cl. 260—149)

The copper derivatives of formazyl dyes having the general formula



wherein the benzoic acid radical is satisfied in positions 4 and 6 by members of the group consisting of hydrogen and chlorine but contains not more than 1 Cl-atom, said copper derivatives being characterized by dyeing nylon from a neutral, aqueous bath in blue shades.

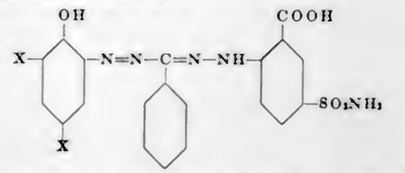
2,662,075

COPPER COMPLEXES OF MONOSULFONAMIDO FORMAZYL DYES

Robert A. Brooks, Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 5, 1952, Serial No. 291,970
1 Claim. (Cl. 260—149)

The copper derivatives of formazyl dyes having the general formula



wherein the X's represent members of the group consisting of hydrogen, chlorine and nitro radicals, said copper derivatives being characterized by dyeing nylon from a neutral, aqueous bath in blue shades.

2,662,076

HYALURONIDASE INHIBITORS AND THE PRODUCTION THEREOF

Zareh Hadidian, Worcester, Mass., and Norman W. Pirie, Harpenden, England, assignors to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois

No Drawing. Application February 3, 1948, Serial No. 6,014
7 Claims. (Cl. 260—211)

1. The process of preparing a hyaluronidase inhibitor which comprise reacting an esterified hyaluronic acid of the group consisting of hyaluronic acid nitrates and lower alkanoates with a dilute solution of alkali in a water-miscible organic solvent at ordinary temperature to effect a partial de-esterification.

2,662,077

LOWER ALKANOIC ACID ESTERS OF HYALURONIC ACID AND THE PRODUCTION THEREOF

Zareh Hadidian, Needham, Mass., and Norman W. Pirie, Harpenden, England, assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application January 15, 1949, Serial No. 71,226
8 Claims. (Cl. 260—211)

1. As a new composition of matter, a member of the group consisting of a lower alkanoic acid ester of hyaluronic acid, and salts thereof, wherein the acyl content is in the range of about 14% to 36%.

2,662,078

HYALURONIC ACID NITRATES AND THE PRODUCTION THEREOF

Zareh Hadidian, Needham, Mass., and Norman W. Pirie, Harpenden, England, assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Original application February 3, 1948, Serial No. 6,014. Divided and this application January 15, 1949, Serial No. 71,227
6 Claims. (Cl. 260—211)

1. As a new composition of matter, a member of the group consisting of a nitric acid ester of hyaluronic acid, and salts thereof.

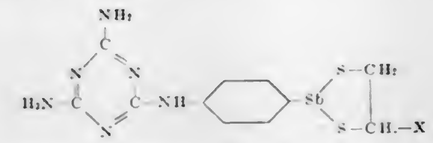
2,662,079

ORGANOMETALLIC COMPOUNDS

Ernst A. H. Friedheim, New York, N. Y.

No Drawing. Original application January 28, 1947, Serial No. 724,925. Divided and this application June 13, 1951, Serial No. 231,430
2 Claims. (Cl. 260—242)

2. As a new therapeutically active product, an organometallic compound corresponding to the general formula



wherein X stands for one of the radicals —CH_2OH and —COOH.

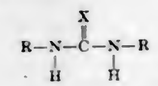
2,662,080

METHOD FOR PRODUCING DERIVATIVES OF HEXAHYDROPYRIMIDINE AND CONVERTING THE SAME TO 1,3-DIAMINES

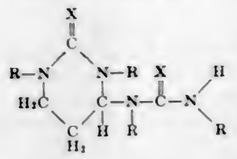
Curtis W. Smith, Berkeley, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application January 4, 1952, Serial No. 265,058
12 Claims. (Cl. 260—251)

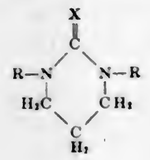
8. In a method for producing 1,3-propanediamines, the steps comprising reacting acrolein with a molar excess of a urea-type compound of the general structure



wherein each R represents a radical selected from the group consisting of the hydrogen atom and hydrocarbon radicals having 1 to about 10 carbon atoms, and X represents a member of the group consisting of oxo, thio, and imino radicals, in the presence of a mineral acid, reacting the compound of the general structure



produced thereby with molecular hydrogen under hydrogenating conditions at a temperature above 75° C. but below that at which substantial pyrolysis occurs in the presence of a hydrogenation catalyst, subjecting the product having the general structure



to hydrolysis in the presence of a member of the group consisting of acids and bases, and separating the 1,3-propanediamine from the hydrolyzed reaction mixture.

2,662,081

PURIFICATION OF SYNTHETIC FOLIC ACID

Arthur R. Hanze, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application November 30, 1950, Serial No. 198,473
5 Claims. (Cl. 260—251.5)

1. A process of separating synthetic folic acid in highly purified form from genetic impurities associated therewith, which comprises: (1) mixing crude folic acid with an aqueous solution of monovalent-cation-hydroxide selected from the group consisting of alkali-metal hydroxide and ammonium hydroxide to provide an aqueous alkaline monovalent-cation-folate solution having dissolved therein between about three and about ten grams of folic acid per liter; (2) mixing the aqueous alkaline monovalent-cation-folate solution with a solid adsorbent selected from the group consisting of calcium oxide, calcium hydroxide, and calcium carbonate, magnesium oxide, magnesium hydroxide, and magnesium carbonate, zinc oxide, zinc hydroxide, and zinc carbonate, and cadmium carbonate, at about room temperature to adsorb a substantial proportion of the genetic impurities present in the aqueous alkaline monovalent-cation-folate solution on the solid adsorbent while the monovalent-cation-folate remains in solution; (3) separating the solid adsorbent and impurities adsorbed thereon from the aqueous alkaline monovalent-cation-folate solution; and (4) precipitating purified folic acid from the thus-clarified solution by acidification.

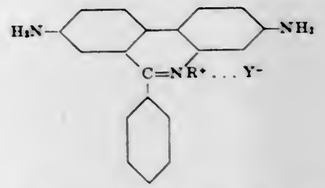
2,662,082

PHENANTHRIDINE COMPOUNDS

Wallace Frank Short, Douglas Archibald Peak, and Thomas Iswel Watkins, Nottingham, England, assignors to Boots Pure Drug Company Limited, Nottingham, England, a British company

No Drawing. Application September 10, 1951, Serial No. 245,964
Claims priority, application Great Britain September 11, 1950
4 Claims. (Cl. 260—286)

1. A new phenanthridinium salt having trypanocidal activity and of the general formula:



in which R is a radical selected from the group consisting of ethyl, allyl and propyl radicals and Y is a non-toxic anion.

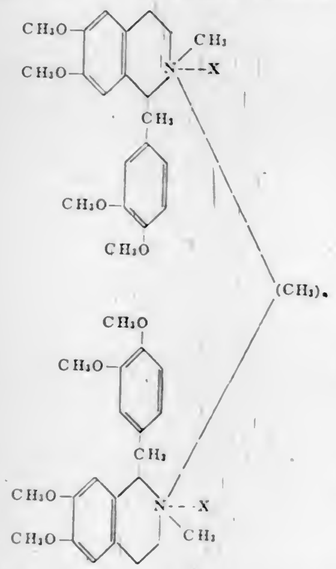
2,662,083

HETEROCYCLIC POLYMETHYLENE - BIS-QUATERNARY AMMONIUM SALTS AND PROCESS FOR PREPARING SAME

Cyril Jack Eastland, Edwin Percival Taylor, and Henry Oswald Jackson Collier, Bethnal Green, London, England, assignors to Allen & Hanburys Limited, London, England, a British company

No Drawing. Application September 28, 1951, Serial No. 248,874
Claims priority, application Great Britain October 24, 1950
12 Claims. (Cl. 260—286)

1. Heterocyclic polymethylene-bis-quaternary ammonium salts of the general formula:



where X is an anion and n is an integer which is at least nine and less than thirteen.

2,662,084

PREPARATION OF N-CARBOANHYDRIDES OF ALPHA AMINO ACIDS

Robert Neal MacDonald, New Castle, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 24, 1949, Serial No. 83,299
17 Claims. (Cl. 260—307)

2. A method for preparing the N-carboanhydrides of hydrocarbon alpha primary amino carboxylic acids of 2–11 carbons which have the one primary amino group and the one carboxyl group satisfying the two valences of a bivalent hydrocarbon radical, which two valences stem from an acyclic carbon of said hydrocarbon radical which acyclic carbon is not more than one carbon from an end of the acyclic chain of said radical, which comprises reacting phosgene at temperatures within the range −70 to +100° C. and under anhydrous conditions with a member of the class consisting of said acids and their alkali metal, alkaline earth metal, and hydrohalide salts.

2,662,085

PROCESS FOR PREPARATION OF CHLORINATED COPPER PHTHALOCYANINE

Harris Holtzman and Eric Simon, New York, N. Y., assignors to Ansbacher-Siegle Corporation, New York, N. Y., a corporation of New York

No Drawing. Application June 29, 1950, Serial No. 171,228
11 Claims. (Cl. 260—314.5)

1. In a process for chlorinating copper phthalocyanine, the improvement of performing the reaction by bubbling chlorine through said copper phthalocyanine when dissolved in chlorsulphonic acid in the presence of a chlorination catalyst and maintaining the temperature of said solution during the addition of said chlorine below 115° C.

2,662,086

METHOD OF PREPARING HYDROLYTIC CONDENSATION PRODUCT OF DICHLORODIPROPYL SULFIDE IN AQUEOUS HYDROGEN CHLORIDE AND CONDENSATION PRODUCT RESULTING THEREFROM

Everett C. Hughes, Cleveland Heights, and Franklin Veatch, Cleveland, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application April 19, 1948, Serial No. 21,858
11 Claims. (Cl. 260—327)

1. A method for preparing dimethyl thioxane and an oxygen-containing hydrolytic condensation product which comprises reacting propylene and sulfur monochloride at a temperature at which the reaction proceeds and below that at which the dichlorodipropyl sulfide would be decomposed not exceeding 50° C. to produce dichlorodipropyl sulfide and then mixing and heating the dichlorodipropyl sulfide in the liquid phase with aqueous hydrochloric acid in the liquid phase to effect a liquid phase hydrolysis of the dichlorodipropyl sulfide and form a liquid phase comprising dimethyl thioxane and the hydrolytic condensation product in contact with the aqueous hydrogen chloride.

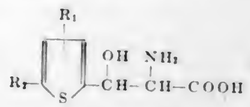
2,662,087

2-THIOPHENESERINES AND THEIR METHOD OF MANUFACTURE

Edward C. Hermann, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 14, 1950, Serial No. 179,395
11 Claims. (Cl. 260—332.2)

1. A compound of the formula,



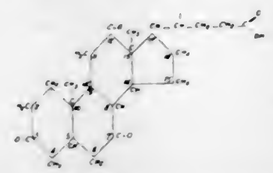
where R_1 is a member of the class consisting of hydrogen and lower alkyl radicals, and R_2 is a member of the class consisting of hydrogen, halogen and, lower alkyl radicals.

2,662,088

PROCESS OF PURIFYING DEHYDROCHOLIC ACID

Pierre Poulenc, Paris, Bernard Gauthier, Antony, and Georges Marie Emile Aloys Kirchhoffer, Paris, France, assignors to Societe: Chimie et Atomistique, Paris, France, a French body corporate

Application March 29, 1952, Serial No. 279,438
Claims priority, application France April 20, 1951
9 Claims. (Cl. 260—397.1)



1. Process of purifying dehydrocholic acid that comprises the steps of treating said dehydrocholic acid in the impure state with an aqueous alkaline solution wherein it is dissolved in the form of its alkaline salt, thereafter adding to this solution at least one halogenated aliphatic hydrocarbon thereby precipitating therefrom an addition compound of halogenated hydrocarbon-dehydrocholic acid, thereafter separating this precipitate, thereafter decomposing it by excess hot water thereby regenerating the alkaline salt of said acid, thereafter liberating this dehydrocholic acid in the pure state by acidification.

2,662,089

14 ALPHA-HYDROXY-ANDROSTENE-DIONES AND PROCESS

Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application August 28, 1952, Serial No. 306,921
3 Claims. (Cl. 260—397.4)

1. A compound selected from the group consisting of 14α - hydroxy - 4 - androstene - 3,17-dione and 14α - hydroxy - 10 - normethyl - 4-androstene-3,17-dione.

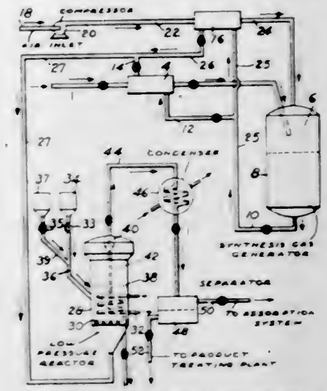
2,662,090

HYDROCARBON SYNTHESIS

Walter G. Scharmann, deceased, late of Westfield, N. J., by Louie Randall Scharmann, executrix, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application October 27, 1949, Serial No. 123,912
2 Claims. (Cl. 260—449.6)

1. An improved process for converting carbon monoxide and hydrogen to normally liquid hydrocarbons of high olefin content and whereby high conversion levels of carbon monoxide and hydrogen are attained which comprises contacting a feed gas comprising carbon monoxide and hydrogen in synthesis proportions at synthesis conditions with a dense turbulent fluidized mass of finely divided synthesis catalyst, said catalyst comprising a physical mixture of separate discrete particles of definite composition, one component of said mixture comprising an alkali metal salt, promoted iron catalyst and the second component of said mixture comprises a support carrying as active component, a mixture of cobalt and iron promoted with a minor amount of thoria, the said total combined catalyst consisting essentially of 51.4% iron, 0.5% KCl, 12.6 Co, 1.4% Th and 33.8% SiO_2 by weight.

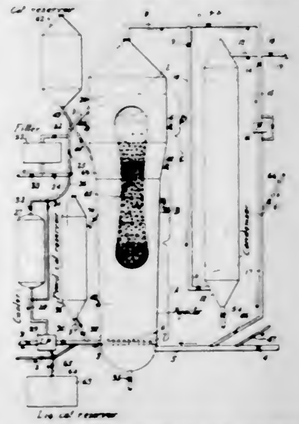


2,662,091

PROCESS AND MEANS OF PROMOTING CHEMICAL REACTIONS

William W. Odell, New York, N. Y.

Application September 25, 1950, Serial No. 186,574
22 Claims. (Cl. 260—449.6)



1. The process of promoting chemical reactions in a fluid stream while it passes upwardly through a mass of coarse granular solids confined submerged in a liquid, comprising, passing said fluid stream initially comprising both a liquid and at least one gasiform reactant material adapted to react chemically at elevated temperatures, upwardly through a comon deep bed of said granular solids of diverse sizes and different buoyancies in contact with said solids while they are confined in a reactor at an elevated temperature and pressure favorable for said material to react chemically, at such a velocity that the largest solids are densely fluidized in said fluid stream in a bottom stratum of said bed and the smaller size solids are less densely fluidized largely in an upper zone of said bed, thereby causing said material to react chemically in said stream as it passes upwardly through the stratified bed serially contacting the large and smaller size submerged solids, discharging gasiform products of reaction from above said bed, separately dis-

charging some of the liquid portion of said stream from adjacent the top of said bed at a rate adapted to maintain a substantially constant level of the latter liquid in said reactor above said bed and meanwhile maintaining the desired difference in densities of the bottom and top strata of said bed by discharging a relatively small amount of the liquid portion of said stream from a zone of said bed between the top and bottom strata thereof at a controlled rate.

2,662,092

CYCLOALKYL ESTERS OF BASICALLY SUBSTITUTED ISOCYCLYLCARBAMIC ACIDS AND THEIR SALTS

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application December 26, 1951, Serial No. 263,510

11 Claims. (Cl. 260—471)

1. The new group of organic compounds consisting of the esters of the structural formula



and the salts thereof, wherein Cy is a lower cycloalkyl radical containing 3 to 6 carbon atoms in nuclear position, Y is a homocyclic hydrocarbon radical containing 3 to 10 carbon atoms, A is a bivalent, saturated, aliphatic hydrocarbon radical containing 2 to 8 carbon atoms, and NRR' is a member of the class consisting of lower dialkylamino radicals, morpholino radicals, and radicals in which R and R' are combined to form a lower alkylene chain containing 4 to 7 carbon atoms between 4 and 5 of which are in nuclear position.

2,662,093

PROCESS OF PREPARING MONOMERIC GLYCOL TEREPHTHALATES

Harry R. Billica, Seaford, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application September 28, 1951, Serial No. 248,679

2 Claims. (Cl. 260—475)

1. In the process which comprises reacting a glycol of the formula, $HO(CH_2)_nOH$, where "n" is an integer from 2 to 10 inclusive, with an alkyl ester of terephthalic acid having 1 to 4 carbon atoms in the alkyl group under conditions to effect ester interchange, the improvement which comprises carrying out the ester interchange in the presence of a catalyst from the group consisting of lithium hydride, sodium hydride, and calcium hydride.

2,662,094

CHLORALIMINE-N-SULFONATES

Jonas Kamlet, Easton, Conn., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application September 18, 1952, Serial No. 310,370

6 Claims. (Cl. 260—500)

1. Compounds of the general formula:

$$CCl_3CH{=}N.SO_2OM$$

where M is selected from the group consisting of hydrogen and water-solubilizing cations.

2,662,095

DIMETHYL-PHOSPHORIC ACID AMIDE AND ITS PRODUCTION

Robert M. Isham, Okmulgee, Okla., assignor, by mesne assignments, to Southern Production Company, Inc., Shreveport, La., a corporation of Delaware

No Drawing. Application July 9, 1948, Serial No. 37,964

18 Claims. (Cl. 260—551)

1. The compound $O{=}P(N(CH_3)_2)_3$.

2. A method of producing N-dimethyl phosphoric acid amide which comprises reacting dimethyl amine with phosphorous oxychloride in the presence of a slightly hydrophyllic diluent comprising an ether which is a solvent for the said reactants and for N-dimethyl phosphoric acid amide and which wets but is a non solvent for amine hydrochloride which boils within the approximate range of 100° F. to 390° F., controlling the reaction conditions to effect the formation of N-dimethyl phosphoric acid amide and dimethyl amine hydrochloride and separating and recovering the reaction products.

2,662,096

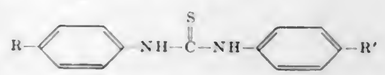
BIS-(SUBSTITUTED PHENYL)-THIOUREAS

Charles F. Huebner, Morristown, Renat H. Mizzoni, Chester, Robert P. Mull, East Orange, and Caesar R. Scholz, Summit, N. J., assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J., a corporation of New Jersey

No Drawing. Application July 20, 1951, Serial No. 237,828

6 Claims. (Cl. 260—552)

1. A (p-substituted phenyl)-thiourea which corresponds to the formula



wherein R is a member selected from the group consisting of alkoxy, alkylmercapto, hydroxyalkoxy, alkoxyalkoxy and alkylmercaptoalkoxy, and R' is a member selected from the group consisting of alkylmercapto, hydroxyalkoxy, alkoxyalkoxy and alkylmercaptoalkoxy, the sum of the carbon, oxygen and sulfur atoms in each of R and R' being at least 3 but less than 7, and the aggregate of the carbon, oxygen and sulfur atoms in R and R' being more than 4 but not more than 14.

2,662,097

CONDENSATION PROCESS

Franklin H. Baldwin, Larchmont, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 30, 1951, Serial No. 253,987

2 Claims. (Cl. 260—573)

1. The improvement in the process of interreacting a 1,2-epoxide with a material selected from the group consisting of primary and secondary amines to produce an ethanolamine which comprises conducting the reaction in a lower aliphatic alcohol solvent at a temperature between about 20 to 50° C. and in the presence of a catalytic quantity of a carbocyclic aryl acetylene.

2,662,098

HALOALKYL SUBSTITUTED CYCLOHEPTATRIEN-1-ol-2-ONE RING COMPOUNDS AND METHODS FOR THEIR PREPARATION

Edward G. Howard, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 4, 1951, Serial No. 229,879

18 Claims. (Cl. 260—586)

1. A process for preparing a chloromethylcycloheptatrien-1-ol-2-one which comprises reacting cycloheptatrien-1-ol-2-one with hydrochloric acid and formaldehyde.

2,662,099

PREPARATION OF ACETALS

Wolfgang Ernst Thiele, Bergisch-Gladbach, Germany, assignor to Adolf Christian Joseph Opfermann, Bergisch-Gladbach, Germany

No Drawing. Application February 21, 1951, Serial No. 212,202

Claims priority, application Netherlands March 1, 1950

8 Claims. (Cl. 260—611)

1. Method for the production of acetals which comprises contacting an alcohol with an oxidizing agent selected from the group consisting of chlorine, bromine, N_2O_4, SeO_2 and CrO_2Cl_2 at a temperature of about −30 to 150° C. in the presence of an ortho-ester and recovering acetal.

2,662,100

PURIFICATION OF SODIUM ALCOHOLATES

Eugene F. Hill, Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 29, 1951, Serial No. 234,457

8 Claims. (Cl. 260—643)

1. A method for removing hydroxy ions from a mixture containing an alcohol, a sodium alcoholate, sodium hydroxide and water comprising treating said mixture with from 2 to 10 times the stoichiometric amount of a material selected from the group consisting of silicon, iron silicide, calcium silicide, titanium silicide, and zirconium silicide.

2,662,101

WITHDRAWN

2,662,102

PREPARATION OF CYCLOHEXENE

Gerald M. Whitman, New Castle, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 29, 1950, Serial No. 152,757

3 Claims. (Cl. 260—666)

1. A process of preparing cyclohexene which comprises reacting ethylene with butadiene-1,3 in the proportion of at least 10 moles of ethylene to 1 mole of butadiene-1,3, at a temperature of about 100° C. to 300° C. and under a pressure of at least 100 atmospheres.

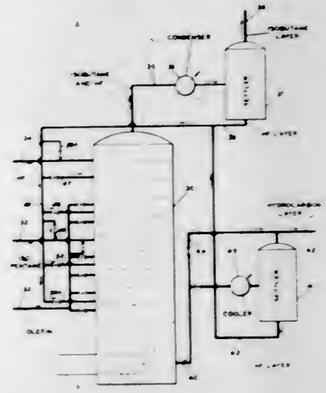
2,662,103

PRODUCTION OF PARAFFINS

Maryan P. Matuszak, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 18, 1945, Serial No. 635,764

4 Claims. (Cl. 260—683.4)



1. An improved process for converting isopentane to higher-boiling isoparaffins boiling in the gasoline range, which comprises charging isopentane and a low-boiling aliphatic olefin having at least three carbon atoms per molecule, in a molar ratio of isopentane charged to olefin charged of at least 7:1, to an intermediate portion of combined reaction-fractional distillation zone, introducing a liquid hydrofluoric acid alkylation catalyst to the upper portion of said zone as a liquid reflux for said distillation, maintaining in an intermediate reaction portion of said zone a reaction temperature between 100 and 200° F., a ratio of liquid hydrofluoric acid catalyst to liquid hydrocarbons from 1:10 to 2:1, and a reaction time between 5 and 60 minutes and sufficient to effect complete reaction of charged olefin and formation of isobutane to the extent of at least 150 weight per cent of said olefin and of C_6 and higher isoparaffins to the extent of at least 400 weight per cent of said olefin and to the extent of at least 130 weight per cent of the theoretical alkylation yield, at least 30 volume per cent of said C_6 and higher paraffins being isohexane, removing as an overhead distillate from said zone a mixture comprising hydrogen fluoride and isobutane and lighter hydrocarbons, cooling and condensing said mixture and separating a liquid hydrocarbon material from liquid hydrofluoric acid, returning at least a portion of said liquid hydrofluoric acid to said zone as said reflux, separately alkylating isobutane contained in said liquid hydrocarbon material to produce normally liquid isoparaffins boiling in the gasoline range, passing a resulting crude alkylate to a separating means, removing from the aforesaid reaction-fractional distillation zone as a high-boiling product a liquid hydrocarbon material free from hydrogen fluoride and comprising C_6-and-higher hydrocarbons produced in said zone, passing the last said liquid hydrocarbon material to the aforesaid separating means, and removing from said separating means as a product of the process an isoparaffinic hydrocarbon material comprising isoparaffins boiling in the gasoline range produced from isopentane in said zone, and produced from said isobutane alkylation.

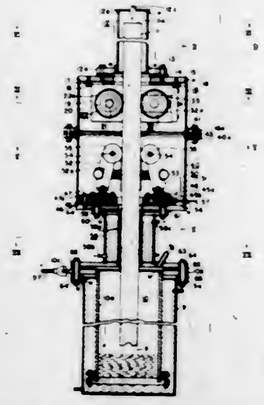
ELECTRICAL

2,662,104

FEED AND CURRENT SUPPLY APPARATUS FOR CONSUMABLE ELECTRODES AND METHOD OF OPERATING FURNACES USING THE SAME

Raymond L. Southern, Troy, N. Y., assignor to Allegheny Ludlum Steel Corporation, Brackenridge, Pa., a corporation of Pennsylvania

Application February 20, 1951, Serial No. 211,887
15 Claims. (Cl. 13—14)



1. In melting down a press-formed consumable metal electrode containing readily volatilizable impurities such as halides and reducing material, wherein the electrode is mechanically fed into an electric arc-melting furnace from within a hermetically sealed-off closure positioned above the furnace and having a bottom end connection therewith, wherein electric current is mechanically applied to the electrode within a bottom portion of the enclosure, and wherein electric current of opposite potential is applied to metal within the furnace, the method which comprises, establishing and maintaining an electric arc between a lower end portion of the electrode within the furnace and the metal within the furnace, volatilizing the readily volatilizable impurities adjacent a top portion of the furnace, flowing a gas that is inert to the metal of the electrode from the enclosure downwardly along sides of the electrode into the furnace and sweeping the volatilized impurities out of the top portion of the furnace, heat insulating and segregating the atmosphere of the closure from the atmosphere of the furnace while feeding the electrode into the furnace, and effecting the heat insulating by providing an actively-cooled atmosphere about the electrode during its movement from the closure into the furnace.

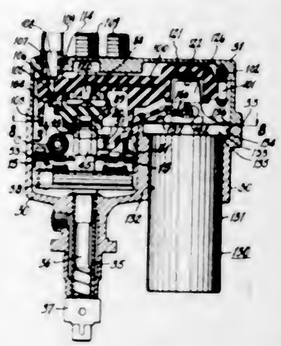
2,662,105

IGNITION DISTRIBUTOR AND COIL UNIT

Max G. Bales, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application August 17, 1950, Serial No. 179,970
1 Claim. (Cl. 123—148)

A device for use with an ignition system for an internal combustion engine comprising; a housing adapted to be attached to an internal combustion engine, said housing providing five sockets for positioning all of the elements of an ignition system and an enclosure for electrical connections therebetween, said sockets including, four spaced parallel sockets each having its axis perpendicular to a common plane, said parallel sockets being constructed and arranged for positioning; a distributor mechanism having a rotor with a terminal thereon, a coil having a terminal thereon, a condenser and an ignition resistance, and a fifth socket having its axis parallel to said common plane and adapted for positioning a second condenser therein, a ventilating conduit



connection to said housing, and a cover for said housing, said cover including; insulating means associated therewith, said insulating means including an electrical conductor embedded therein for providing an electrical connection between the terminals of the coil and distributor rotor which connection is established when this cover is in place upon said housing, and providing sockets for spark plug cables and associated posts for the distributor with which the rotor cooperates, and fastening and sealing means for attaching said cover to the socket portion of said housing whereby all of the elements and electrical connections thereto are sealed from moisture and dirt.

2,662,106

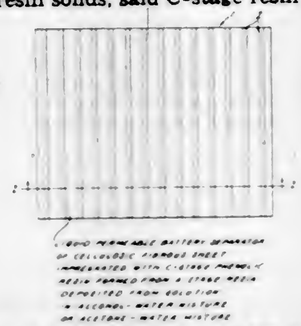
BATTERY SEPARATOR

Edwin C. Uhlig, Greenwood, and Linwood A. Murray, Jr., Cranston, R. I., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application August 4, 1951, Serial No. 240,312
7 Claims. (Cl. 136—146)

1. A liquid permeable battery separator having embossed integral protuberant ribs and having an air permeability (Gurley) of from 1 to 10 seconds, said separator comprising a bibulous cellulosic fibrous sheet having an alpha cellulose content of at least 90 per cent and an air permeability (Gurley) of from 1 to 10 seconds thoroughly impregnated with a C-stage phenol-formaldehyde resin formed by curing an A-stage phenol-formaldehyde resin uniformly deposited in and around the fibers of the sheet by drying from solution in a solvent composed of from 10 to 50 per cent by weight of water and correspondingly from 90 to 50 per cent by weight of a material selected from the group consisting of

alkanols having not more than three carbon atoms per molecule and acetone, said solution containing from 13 to 50 per cent by weight of non-volatile resin solids, said C-stage resin protecting



the fibers against attack by battery acid but not substantially reducing the air permeability of said sheet and being present in amount equal to from 25 to 50 per cent by weight based on fibers plus cured resin.

2,662,107

BATTERY SEPARATOR

Edwin C. Uhlig, Greenwood, and Linwood A. Murray, Jr., Cranston, R. I., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application August 4, 1951, Serial No. 240,313
5 Claims. (Cl. 136—146)

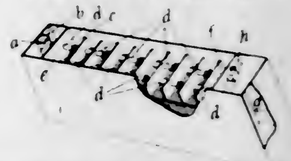
1. A liquid permeable battery separator having embossed integral ribs and an air permeability (Gurley) of from 1 to 10 seconds, said separator comprising a bibulous cellulosic fibrous sheet having an alpha cellulose content of at least 90 percent and an air permeability (Gurley) of from 1 to 10 seconds thoroughly impregnated with from 25 to 50 percent by weight, based on fiber plus resin, of a C-stage prenol-formaldehyde resin formed by curing an A-stage phenol-formaldehyde resin deposited in intimate admixture with a wetting agent by drying in and around the fibers of said sheet from an aqueous solution having dissolved therein said A-stage resin and said wetting agent, said C-stage resin serving to protect the fibers against attack by battery acid but not to substantially lower the air permeability of said sheet, said separator containing in addition to said wetting agent deposited with said A-stage resin a wetting agent applied after curing, said separator being more readily penetrated by the battery acid than would a comparative separator in which the same total amount of wetting agent is applied after curing and being superior to a comparative separator in which the same total amount of wetting agent is applied in the aqueous solution of the A-stage resin.

2,662,108

FILLING AND VENTING MEANS FOR ELECTRIC BATTERIES

Archibald Coates, Manchester, England, assignor to The Chloride Electrical Storage Company Limited, Manchester, England, a British company

Application October 25, 1949, Serial No. 123,321
Claims priority, application Great Britain November 19, 1948
1 Claim. (Cl. 136—162)



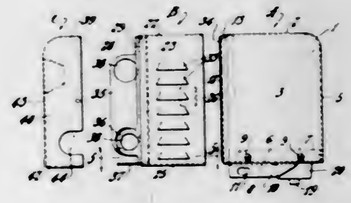
A multi-cell electric storage battery comprising means defining a plurality of cells, a filling chamber at one end of the cells, a reservoir chamber at the other end of the cells constituting a common vent and electrolyte overflow chamber for all of the cells, means defining a filling opening in the filling chamber whereby electrolyte may be introduced therein, means constituting an electrolyte path extending from the filling chamber through each cell to the reservoir chamber, such electrolyte path constituting means including apertures in the walls between the cells, the inlet aperture to each cell being at the opposite side of the cell to the outlet aperture so that electrolyte entering the cell must pass across the cell, the apertures all being in the same plane and serving to vent the series of cells to the reservoir chamber, a duct extending vertically of each cell, the outlet side of each aperture being disposed in said duct, and means constituting an atmospheric vent on the reservoir chamber.

2,662,109

SECTIONAL HOUSING FOR ELECTRICAL CONTROL AND IGNITION APPARATUS OF FLUID FUEL BURNERS

Harry F. Tapp, Longmeadow, and Richard M. Cochrane, West Springfield, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts

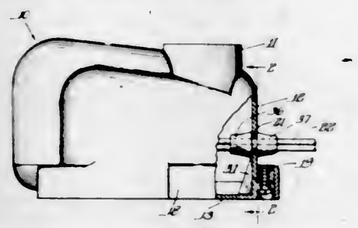
Application March 12, 1952, Serial No. 276,206
3 Claims. (Cl. 174—52)



1. In a sectional housing construction, a first box section adapted to house an ignition transformer and including walls forming a peripheral enclosure and closures at opposite ends of the peripheral enclosure wall, one of said closures consisting of a flat wall and a right-angularly-turned marginal flange in part telescoped in closely fitting relation within one end of the peripheral enclosure wall and fixed thereto and in part projecting outwardly beyond such end; a second box section adapted to house control apparatus for a fluid fuel burner and compris-

ing a wall forming a complete peripheral enclosure open at one end, such end slidably fitting and being telescoped over the outwardly projecting portion of said marginal flange, and an end wall adapted to support said apparatus and having a right-angularly-turned marginal flange in part telescoped in closely fitting relation within the other end of the second-named peripheral enclosure wall and fixed thereto and in part projecting beyond the last-named end; and a third box section comprising walls providing a complete peripheral enclosure and a closure for one end thereof, the last-named peripheral enclosure wall slidably fitting and telescoping over the outwardly projecting part of the second-named marginal flange; and means for securing adjacent box sections together.

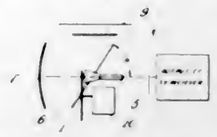
2,662,110
LAMP HOUSING WITH GROMMETED LEAD-IN HOLDING MEANS
Irving Fiori, Chicago, Ill., assignor to Art Specialty Co., Chicago, Ill., a corporation of Illinois
Application February 21, 1950, Serial No. 145,561
4 Claims. (Cl. 174—65)



1. Lamp construction which includes cooperating housing-forming members between which a pair of insulated wire conductors is disposed, said conductors being provided with enlargements fixedly disposed thereon and with a narrow groove between said enlargements, one of said housing-forming members having an aperture therein through which said insulated wire conductors pass to the outside of said housing with the aforesaid narrow groove positioned within said housing but closely adjacent to said aperture, means integral with the other of said housing-forming members whereby, when said housing-forming members are in assembled relation, said means extends into the aforesaid narrow groove to prevent said insulated wire conductors being pulled out of position, said means comprising a generally channel-shaped member extending from the interior surface of said second-mentioned housing-forming member, the opposite side walls of said channel being of greater width at the bottom than at the top, and the upper edge of said upstanding member having a generally concave configuration whereby to extend into the aforesaid narrow groove so as partially to encompass said insulated wire conductors.

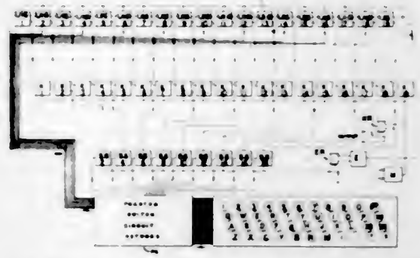
2,662,111
FOLDED SCHMIDT TELEVISION PROJECTOR WITH COLOR DISK
Theodore E. Poliakoff, New York, N. Y., assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y.
Application February 27, 1951, Serial No. 212,889
1 Claim. (Cl. 178—5.4)

A color television projection system comprising a cathode-ray tube having a substantially spherical image screen at one end thereof, a concave real image producing spherical mirror substantially concentric with said screen and having its active concave surface facing said screen, the optical axis of said concave mirror intersecting said screen at the central portion thereof, a plane mirror provided with an aperture admitting said cathode-ray tube therethrough and disposed at an angle of substantially 45 degrees with respect to the optical axis of the concave mirror to reflect



light rays from said concave mirror to points outside the boundaries of said concave mirror, the screen of said tube being disposed tangentially with respect to the plane of said plane mirror, said plane mirror being further provided with a slit displaced from the central portion thereof, and a rotatable disc-shaped multi-color element having a portion thereof inserted through said slit to occupy a position transversely with respect to said optical axis and closely adjacent the face of said screen.

2,662,112
ELECTRONIC CODE-TYPEWRITER SYSTEM
Nathaniel G. A. Dorfman, New York, N. Y.
Application April 16, 1952, Serial No. 282,665
2 Claims. (Cl. 178—17)



1. A keyboard-operated code producer for International Morse code, comprising a keyboard having a plurality of keys each corresponding to one character of said code, a like plurality of normally open single pole momentary contact switches mechanically coupled respectively to said keys to be actuated thereby, each of said switches having first and second terminals, a source of direct potential coupled to all said first terminals, a 19-stage uni-pulse generator chain having nineteen cascaded generators, each of said generators being adapted in response to receipt of a trigger pulse to produce a single output rectangular pulse and to supply a trigger pulse to the next generator of said chain coincidentally with the termination of its own rectangular pulse to thereby trigger said next generator in similar manner to produce a further output pulse and a further trigger pulse for the following generator, all said output pulses having uniform duration, whereby application of a trigger pulse to any generator of said chain produces a sequence of output uniform-duration rectangular pulses equal in number to the number of generators from the generator first triggered to the end of said chain, the second terminal of each key switch being coupled to the

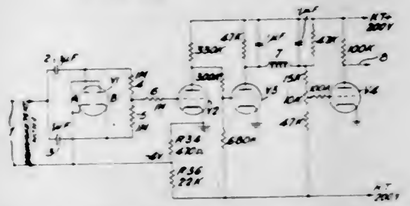
input of that one of said generators from which to the end of said chain there are as many generators as there are unit intervals in the character corresponding to said key, whereby upon depressing said key to close its respective switch, a trigger pulse is applied to the appropriate point of said generator chain to initiate a sequence of output pulses equal in number to the interval-length of the respective character, nineteen keyer circuits, each of said generators having its output coupled to the input of a respective keyer circuit to supply its respective output rectangular pulse thereto, a keying relay having a pair of output contacts and a winding, the outputs of all said keyer circuits being connected in parallel to said keying relay winding whereby said contacts are operated in correspondence with pulses passing individually through said keyer circuits, nine sequence selector circuits coupled to the nine even-numbered keyer circuits, each being adapted upon excitation by a contact pulse to gate-on its respective keyer circuit, and means coupling the second terminal of each of said key switches to those of said sequence selector circuits corresponding to keyers whose input pulses from said generator chain have interval positions corresponding to the positions of the center intervals of the dash marks of the character corresponding to said each key, whereby upon actuation of any key of said keyboard, said generator produces a sequence of pulses of number equal to the interval length of the code character corresponding to said actuated key, and said keyers pass to said keying relay only those pulses corresponding to dots and dashes of said code character.

2,662,113
PULSE-CODE MODULATION COMMUNICATION SYSTEM
Jan Frederik Schouten and Frank de Jager, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 10, 1949, Serial No. 75,663
Claims priority, application Netherlands October 4, 1948
30 Claims. (Cl. 178—43.5)



1. In a pulse code modulation system, encoding apparatus for deriving from applied intelligence signals pulse code modulated signals, said apparatus comprising a source of periodic timing impulses, a voltage-responsive pulse code modulator coupled to said source to initiate at cyclical moments corresponding to said impulses a pulse group wherein the presence or absence of pulses within a predetermined series of equidistant instants characterizes the nearest amplitude level of an applied voltage at a given moment, a difference producer having first and second inputs therefor, means to supply said intelligence signals as a first input to said difference producer, a pulse code demodulator to quantize an applied pulse group, a first signal frequencies integrating network in serial connection with said demodulator, means coupled to the output of the modulator and responsive to said cyclical pulse groups and including said demodulator and said first network for deriving a signal from said modulator which approximate said intelligence signals, means to supply said approximation signal in phase opposition to said intelligence signal as a second input to said difference producer, and means coupling the output of the difference producer to the input of the modulator whereby the voltage representing the difference between said approximation signal and said intelligence signal is pulse code modulated; and decoding apparatus for deriving from said pulse code modulated signals said applied intelligence signals.

2,662,114
FREQUENCY SHIFT TELEGRAPH RECEIVER
John Vincent Beard, Great Baddow, Chelmsford, England, assignor to Marconi's Wireless Telegraph Company Limited, London, England, a British company
Application October 8, 1951, Serial No. 250,341
Claims priority, application Great Britain November 3, 1950
3 Claims. (Cl. 178—66)



1. In a frequency shift telegraph receiver wherein there is produced, from received signals by means of a frequency discriminator, a wave form changing from a positive amplitude value to a negative amplitude value, one of said values being representative of mark and the other of space, a D. C. restorer circuit, means for applying said wave form to said D. C. restorer circuit to maintain said wave form symmetrical about a constant mean amplitude value, a limiter circuit adapted in response to varying amplitude input signals to provide varying amplitude output signals up to but not exceeding a predetermined maximum amplitude, means for applying the output from said D. C. restorer circuit as input to said limiter circuit, a low pass filter adapted to reduce the amplitude of signals of shorter duration than that of the intelligence conveying signal element and fed from said limiter circuit, and a slicer circuit adapted to be unresponsive to signals substantially below the level of the intelligence conveying signal elements at the input to said slicer circuit and fed from said low pass filter.

2,662,115
INTERCOMMUNICATING APPARATUS
Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application May 3, 1948, Serial No. 24,785
10 Claims. (Cl. 179—1)

1. An intercommunicating system including a plurality of stations, interstation circuits connecting said stations, amplifying means having an input and an output and a plural position communication direction controlling switch means and a two way communication circuit, and amplifying means input and output circuits; controlled by it at each station for completing the connections of said interstation circuits to the input and output of said amplifying means in a plurality of positions of said switch means; circuit means at each station associated with its said switch means for

placing its interstation circuit in one of a plurality of current conducting "busy" condition when the station is communicating with another, each of said communication direction controlling switches being operable also to a further station selecting position, and means including said



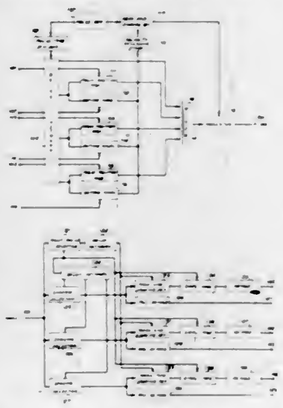
switch means in said selecting position and current responsive means at each station controlled in response to the busy condition of a selected interstation circuit for breaking said controlled circuit when said busy condition obtains and for completing said circuit when said busy condition ends.

2,662,116

DOUBLE MODULATED PULSE TRANSMISSION

Gaston Xavier-Noël Potier, Versailles, France

Application December 6, 1950, Serial No. 199,399
4 Claims. (Cl. 179—15)



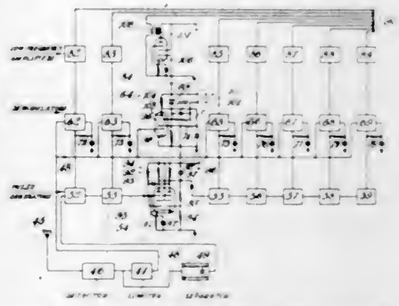
1. In a multiplex time division electric pulse communication system, a plurality of communication channels including an even number of said channels, and means for impressing modulation signals from each of said channels upon a transmitting device, said transmitting device comprising a generator of periodic pulses, a pulse frequency divider fed from said generator, a delay network fed with pulses from said divider and including taps so arranged as to stagger in time pulses from said divider, pulse position modulators in number equal to half said even number of channels, means for controlling each one of said position modulators by modulation signals from one of said channels and by pulses from one of said taps, gating amplifiers in number equal to half said even number of channels, means for controlling each one of said amplifiers by pulses from one of said taps and by modulation signals from one of said channels excluding any channel whose modulation signals control one of said position modulators, a pulse polarity reversing stage, means for applying to said stage pulses issued from all said gating amplifiers, a storing device controlled by said generator for storing for a predetermined time interval substantially equal to the period of the pulses from said generator and in the form of an electric charge across a condenser a voltage proportional to the amplitude of each one of pulses issued from said polarity reversing stage, a mixer circuit, means for applying to said mixer circuit position modulated pulses from all of said position modulators together with non-modulated pulses from said pulse divider, an amplitude modulator fed on one hand by pulses from said mixer circuit and on the other hand from said voltage stored in said storing device, and means for impressing modulated signals from said amplitude modulator upon a communication circuit.

2,662,117

MULTIPLEX TRANSCEIVING ARRANGEMENT

Cornelis Johannes Henricus Antonius Staal, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., trustee

Original application February 18, 1948, Serial No. 9,167. Divided and this application May 22, 1951, Serial No. 230,861
Claims priority, application Netherlands March 5, 1947
2 Claims. (Cl. 179—15)



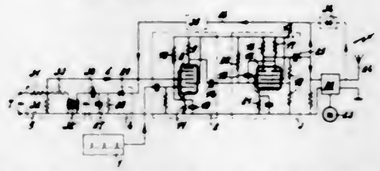
1. In a pulse communication multiplex system wherein pulse trains are transmitted periodically, each pulse in said train having a characteristic depending on the instantaneous amplitude of an individual intelligence signal, receiving apparatus comprising a plurality of demodulators each responsive to a rectangular gating pulse and arranged to mix an applied pulse with a saw-tooth voltage to produce an output signal having an amplitude depending on the characteristic of said pulse, a like plurality of pulse generators each producing a rectangular pulse in response to an applied triggering voltage, said generators being connected in cascade relation whereby the actuation of the first generator in said cascade sequentially actuates the succeeding generators, means to apply a triggering voltage to the first generator in said cascade having a periodicity corresponding to the periodicity of said trains, means to apply the rectangular pulse developed by each of said generators to a respective demodulator to render same operative, an integrating network coupled to the output of each of said generators to convert the rectangular pulse produced therein into a saw-tooth voltage, and means to apply said saw-tooth voltage to a respective demodulator for mixing with the pulse applied thereto.

2,662,118

PULSE MODULATION SYSTEM FOR TRANSMITTING THE CHANGE IN THE APPLIED WAVE-FORM

Jan Frederik Schouten, Frank de Jager, and Johannes Anton Greefkes, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application February 10, 1949, Serial No. 75,664
Claims priority, application Netherlands May 22, 1948
13 Claims. (Cl. 179—15.6)



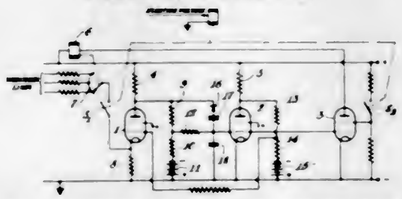
1. In a delta pulse code modulation system for the transmission of intelligence signals varying in amplitude and frequency by radiating mutually identical pulses wherein the time spacing between consecutive pulses is indicative of said intelligence; the combination comprising a pulse generator for producing equidistant impulses, a regenerator responsive to triggering impulses for producing mutually identical pulses coincident in time with impulses from said generator, a voltage-gated electronic switching device whose input is coupled to said generator and whose output is coupled to said regenerator, said device, when gated by a control voltage, supplying impulses to said regenerator to produce said mutually identical pulses, means coupled to the output of said regenerator and including an integrating network for yielding an integrated voltage which varies by a finite amount whenever a pulse is received from said regenerator, a difference producer, means to supply both said integrated voltage and said intelligence signals as an input to said difference producer to develop in the output thereof a control voltage depending on the difference therebetween, and means coupled to the output of said difference producer to apply said control voltage to said device to gate said device as a function thereof.

2,662,119

LINE-FINDER STOPPING CIRCUIT

Robert Bertold Buchner, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application December 22, 1948, Serial No. 66,679
Claims priority, application Netherlands January 8, 1948
7 Claims. (Cl. 179—18)



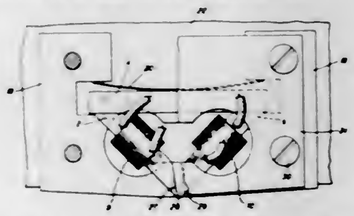
1. In an automatic signalling system entailing a plurality of lines, apparatus for finding any one of said lines, the line to be found having established thereon a direct potential whose value differs with respect to the direct potentials on the other lines, said apparatus comprising a test switch having a series of fixed contacts, a contact arm for successively engaging said fixed contacts and an electromagnet for actuating said arm, each of said fixed contacts being connected to a respective line, a flip-flop circuit including first and second electron discharge tubes each having a cathode, a grid, and an anode, separate impedance means coupling the grid of the first tube to the anode of the second tube and the anode of the first tube to the grid of the second tube, respectively, and means coupled to the grid of the first tube to bias first tube to cut off, said circuit having two quiescent conditions, namely an initial condition in which said first tube is non-conductive and said second tube is conductive and an operative condition in which said first tube is conductive and said second tube non-conductive, means for passing an energization current through said electromagnet to actuate said arm, means to connect said arm to the cathode of said first tube whereby the potentials on said lines are successively applied thereto, said first tube being rendered conductive solely in response to the value of potential on said line to be found, whereby said second tube is rendered non-conductive, and a device coupled to said second tube and including means responsive upon the non-conduction of said second tube to interrupt said current flow through said electromagnet whereby said arm is arrested at the desired contact, the impedance means coupling the grid of the first tube to the anode of the second tube having a value at which during the non-conduction of said second tube, the voltage applied to the grid of the first tube gives rise to a potential on the cathode of the first tube marking busy the found line connected thereto.

2,662,120

MAGNETIC HEAD

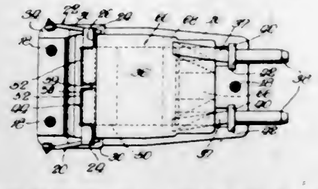
John R. Anderson, Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 18, 1950, Serial No. 145,027
2 Claims. (Cl. 179—100.2)



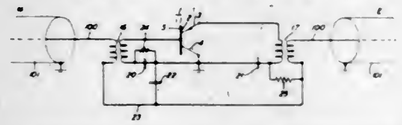
1. An electromagnetic transducer comprising two pole-pieces and a yoke, said pole-pieces and yoke being of substantially the same thickness and width and comprising an equal number of laminations of magnetic material having a thickness of substantially 0.001 inch, said laminations of said pole-pieces being trapezoidally shaped, said laminations of said yoke being rectangularly shaped, adherence producing and insulating separators between said laminations, said separators forming a union between adjacent laminations, said pole-pieces and yoke being disposed in such manner as to form a stack of substantially identical triangularly shaped magnetic cores, said pole-pieces comprising knife-edged pole tips and converging to form a gap, each of said laminations in said yoke contacting a corresponding lamination in each of said pole-pieces, a non-magnetic eddy current shield, said pole-pieces disposed within said shield in such manner that substantially only the knife edges of said pole tips project from said shield.

2,662,121
MULTIPLE STYLUS PICKUP
Clarence F. Jensen, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application June 14, 1949, Serial No. 99,086
16 Claims. (Cl. 179—100.41)



1. A transducer unit including a transducer element, an open ended envelope of damping material substantially covering and extending beyond one end of the element, and a plug inserted into and substantially closing the extending end of said envelope.

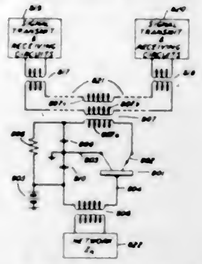
2,662,122
TWO-WAY TRANSISTOR ELECTRICAL TRANSMISSION SYSTEM
Robert M. Ryder, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 1, 1949, Serial No. 96,500
6 Claims. (Cl. 179—170)



6. A bilateral amplifier for transmitting signals with substantially equal power gains in a forward direction and in a reverse direction, said amplifier including a transistor comprising a semiconductor body, an emitter electrode, a collector electrode, and a base electrode cooperatively associated with said body, a first signal input-output circuit including said base electrode and said collector electrode for input signals in said forward direction and output signals in said reverse direction, a second signal input-output circuit including said emitter electrode and said collector electrode for input signals in said reverse direction and output signals in said forward direction, said first and second signal input-output circuits having a common portion including said collector electrode, wherein the ratio of the net mutual impedance of said transistor in a forward direction to the impedance of said common portion including said collector electrode is substantially equal to 2.

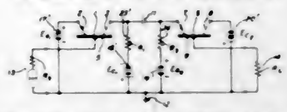
2,662,123
ELECTRICAL TRANSMISSION SYSTEM INCLUDING BILATERAL TRANSISTOR AMPLIFIER
Walter Koenig, Jr., Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 24, 1951, Serial No. 212,639
3 Claims. (Cl. 179—170)

2. A combination comprising an electrical transmission line having a substantial reactive component, negative resistance repeating means coupled to said line, said negative resistance repeating means comprising in combination a transistor having an emitter electrode, a base electrode, a collector electrode and a semiconducting body in contact with said electrodes, a first coupling means connected in series with signal by-passing means between one of said first two electrodes and said collector electrode for coupling said transistor to said line, a second coupling means connected in series with signal by-passing means between the other of said first



two electrodes and said collector electrode, a balancing impedance network coupled to said transistor through said second coupling means, and means in circuit relation with the electrodes of said transistor for biasing said electrodes to operating condition, wherein the impedance looking into said transistor from said first coupling means is substantially equal to a negative unit constant times the impedance of said balancing network.

2,662,124
TRANSISTOR AMPLIFIER CIRCUIT
Brockway McMillan, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 1, 1949, Serial No. 96,485
3 Claims. (Cl. 179—171)

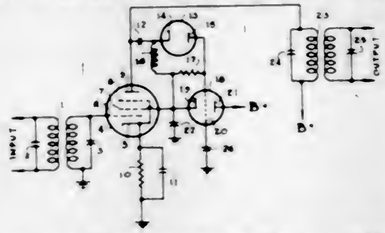


1. In combination, a first semiconductor body, a second semiconductor body, each of said bodies having emitter, collector and base electrodes cooperatively associated therewith, means for connecting a source of signals between the base electrode of the first body and a point of reference potential, means for connecting the emitter electrode of the first body through an external signal transducing connection to said point of reference potential, means for coupling the collector electrode of the first body to the emitter electrode of the second body in signal transfer relation, means for connecting the collector electrode of said second body through an external signal transducing connection to said point of reference potential, and means for connecting a useful load between the base electrode of said second body and said point of reference potential.

2,662,125
AUTOMATIC GAIN CONTROL CIRCUITS FOR REDUCING AMPLITUDE VARIATIONS
Richard Harland Stafford, East Orange, N. J.
Application February 20, 1950, Serial No. 145,132
1 Claim. (Cl. 179—171)

In combination with an amplifier having a cathode, an anode, a control grid, a screen grid, a suppressor grid, said cathode being connected through a self-bias resistor paralleled by a

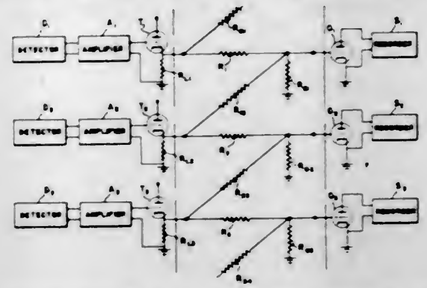
by-pass capacitor to ground potential, tuned input and output circuits, said tuned input circuit connected to said control grid and said tuned output circuit connected to said anode, and angular velocity modulated carrier wave input signals, being further combined with a signal responsive diode rectifier, and a control tube having a cathode, a control grid, and an anode, said rectifier having its anode directly connected to the control grid of said control tube, and its cathode connected through a suitable coupling means to the anode of said amplifier and the cathode of said control tube, said coupling means being paralleled to the anode of said amplifier by said tuned amplifier output circuit, said control tube being responsive to bias voltages developed from the output of said rectifier, said control tube being connected between a positive source potential and the amplifier screen grid, the anode of said control tube connected to a positive source potential, the cathode of said control tube connected to the screen grid of said amplifier tube, a resistor serving in common as diode rectifier load and control tube grid leak said resistor being connected between said cathode and control grid of said control tube, two capacitors connected in series across said resistor in such a



manner that the connection between the two said capacitors is at ground potential, said resistor and capacitors forming in conjunction with the internal impedance of said diode rectifier and the inter-electrode capacitances of the amplifier tube and the control tube a time constant circuit, said coupling means including capacitive means for applying part of the amplifier output energy to the diode rectifier, the polarity of said diode rectifier being such that an increase in carrier wave amplitude causes a control tube bias increase, a control tube resistance increase, and a corresponding decrease in amplifier tube screen potential, and vice versa for a decrease in carrier wave amplitude, said action constituting automatic gain control by varying the transconductance of the amplifier tube, the diode load resistor and the two series capacitors having values selected to afford a screen grid bias circuit for the amplifier tube having a time constant which is fast enough to allow amplitude variations due to amplitude modulations of the carrier waves to be removed or greatly reduced by the above mentioned automatic gain control action, yet not fast enough to distort or remove the pure angular velocity modulated carrier waves due to the above mentioned automatic gain control action.

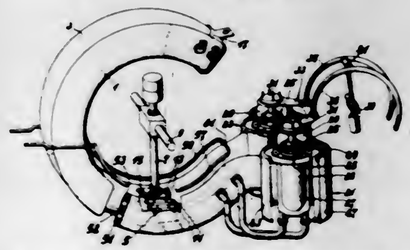
2,662,126
SEISMOGRAPHIC AMPLIFIER MIXING CIRCUITS
Robert L. Henson, Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application March 23, 1950, Serial No. 151,347
4 Claims. (Cl. 179—171)

1. A mixing circuit for use in seismographic recording adapted to receive input signals from a plurality of detector channels and to deliver signals to a plurality of recorder channels, said mixing circuit comprising a plurality of cathode-follower elements each including a tube having its cathode associated with a low resistance cathode resistor and each adapted to receive signals from an associated detector channel, a plurality of tubes each having a control grid and adapted



to deliver signals to an associated recorder channel, a high resistance connecting the cathode of each of the cathode-follower tubes with the control grid of a corresponding one of the tubes in the recorder channels, and additional high resistances connecting some of the cathodes of the cathode-follower tubes with the control grids of non-corresponding tubes in the recorder channels.

2,662,127
TUNABLE HIGH-FREQUENCY PUSH-PULL POWER AMPLIFIER
Dirk Boterweg, Sytze Breimer, and Andries Gerrit Robeer, Hilversum, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 25, 1951, Serial No. 222,778
Claims priority, application Netherlands May 9, 1950
2 Claims. (Cl. 179—171)



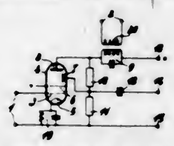
1. A tunable high-frequency push-pull power amplifier comprising a pair of water-cooled anode tubes each having a cylindrical anode open at one end, and an anode circuit for said tubes including a lecher line having a pair of parallel hollow conductors extending longitudinally along a curved path, said conductors being of flattened cross section at the sides thereof facing each other, means connecting the ends of said conductors to the respective anodes, the flattened sides of said conductors being disposed in parallel relation to the axes of said cylindrical anodes, a short circuiting movable bridge occupying an oblique position relative to the longitudinal direction of said line interconnecting the flattened sides of said conductors over substantially the full width of said flattened sides and cooling channels extending through said hollow conductors to said tubes.

2,662,128

CIRCUIT-ARRANGEMENT FOR AMPLIFYING AND SEPARATING SIGNALS OF DIFFERENT FREQUENCIES

Adrianus Johannes Wilhelmus Marie van Overbeek, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application August 7, 1951, Serial No. 240,662
Claims priority, application Netherlands August 25, 1950
4 Claims. (Cl. 179—171)



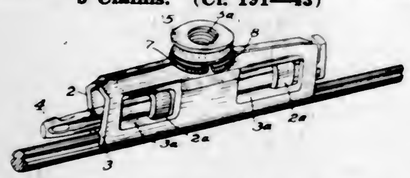
1. Apparatus responsive to an incoming signal having first and second signal components of different frequency for amplifying and separating said signal components therefrom, said apparatus comprising an electron discharge tube having a cathode, a control grid, an anode and a secondary emission electrode, a resonant circuit tuned to the frequency of said first signal component and coupled between the anode of said tube and a point of high constant potential relative to the cathode of said tube, means to supply said incoming signal to the control grid of said tube whereby both signal components appear in amplified form at both the anode and the secondary emission electrode of said tube, first and second impedances serially connected together between the anode and cathode of the tube, the junction of said impedances being connected to said secondary emission electrode, said impedances having impedance values measured at the frequency of said first signal component at which relative to the corresponding impedance value of said resonant circuit substantially all of said first signal component appears across said resonant circuit and substantially all of said second signal component appears between said junction and the cathode of said tube, means to derive the amplified first signal component from said resonant circuit, and means to derive the amplified second signal component from said junction point.

2,662,129

TROLLEY WIRE CLAMP

Hermann Schutte, Pittsburgh, Pa.

Application August 31, 1949, Serial No. 113,288
5 Claims. (Cl. 191—43)



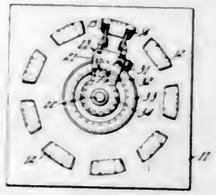
1. A clamp for a trolley conductor comprising a pair of clamping jaws having trolley wire engaging portions, each jaw having integrally formed, inwardly extending loops, a key for insertion through said loops for causing them to become axially aligned and thereby draw the clamping jaws into clamping position, semicircular collar portions integrally formed at the top of each clamping jaw to form when in confronting relationship a boss, a pair of diametrically disposed notches formed in said boss, and a pair of semicircular-shaped spring elements, each having radially inwardly extending end portions which extend into said notches for normally biasing said trolley wire engaging portions of said jaws in spread apart condition to facilitate insertion of the trolley wire therebetween, said spring elements also being effective to yieldably clamp said key within said loops either when the key is in the retracted position or when driven home.

2,662,130

DIAL SWITCH WITH STATIONARY BLADES HAVING CUTBACK EDGES

William C. Sealey, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application June 30, 1952, Serial No. 296,366
7 Claims. (Cl. 200—11)



1. A dial switch comprising an insulating panel, a plurality of stationary contact blades fixed to said panel and spaced radially about a center point and circumferentially spaced from each other, and a movable contact assembly which is rotatable about said center point, said assembly including two pairs of contact shoes radially spaced from said center point so as to engage with said blades, said pairs of shoes being circumferentially spaced a distance greater than the circumferential distance between adjacent portions of said blades and less than the circumferential length of any of said blades whereby said two pairs of shoes may be made selectively to cooperate with the same blade or with adjacent blades, said shoes disposed on opposite sides of the median plane of said blades whereby said shoes rub on opposite faces of said blades, said assembly including means for biasing said shoes toward each other whereby said shoes are firmly pressed on the opposite faces of said blades, the opposed surfaces of said shoes being segmental cylindroidal portions curved in cross section normal to a radial line from said center point, the outermost part of each of the circumferentially spaced end portions of each of said blades being tapered to substantially the median plane of the blades and the innermost parts of each of said end portions terminating on a line which makes an obtuse included angle with the extreme edge of the corresponding outermost part, the extreme edges of said innermost parts of adjacent said blades being substantially parallel to each other, and said biasing means exerting a force on said shoes at a distance greater than the radial distance of the point of intersection of said extreme edges of said corresponding innermost and outermost parts.

2,662,131

KEY OPERATED SWITCH

Carlos Girón Cerna and José Antonio Arevalo, Guatemala City, Guatemala

Application July 19, 1951, Serial No. 237,626
Claims priority, application Guatemala August 17, 1950
11 Claims. (Cl. 200—44)

1. A multiplex switch comprising a cylindrical structure having a plurality of relatively circumferentially displaced axial apertures, a metallic ball contained in each of said apertures, a single spring for resiliently pressing all of said balls outwardly of the apertures containing the balls, a further insulating structure comprising a cylindrical recess having a wall of circular cross section of diameter substantially equal to the diameter of said cylindrical structure and a height adequate to receive said cylindrical structure in said recess, a plurality of contact pins extending axially into said recess through said wall of circular cross section, means for rotating said cylindrical structure relative to said further insulating structure to preselected relative positions, selectively to make contact between said balls and said pins.

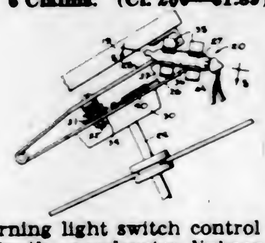


2,662,132

ACCELERATOR CONTROLLED VEHICLE WARNING LIGHT

John T. Crowe, Chicago, Ill., and Carl E. Seaberg, Gardena, Calif.

Application April 16, 1952, Serial No. 282,546
6 Claims. (Cl. 200—61.89)



1. A warning light switch control adapted for insertion in the accelerator linkage of a motor vehicle to form a mechanical coupling therein and being responsive to the application to and the removal from the linkage of throttle opening force to open and close a warning circuit, said switch comprising, in combination, two relatively movable switch actuating members, the first of said members being adapted to be connected to an actuating element of an accelerator linkage, the second of said members being adapted to be connected to the succeeding actuated element of the linkage, abutment means on said members for limiting relative movement of the members toward each other, thereby enabling said members to positively transmit force between the adjacent actuating element and the actuated element of said linkage, resilient means interconnected between said two members for urging the latter apart from each other, second coacting abutment means on said members for limiting spreading movement of the members by said resilient means, a circuit opening and closing unit interconnected with said two members and responsive to reverse movement of the latter relative to each other to open and close a warning circuit.

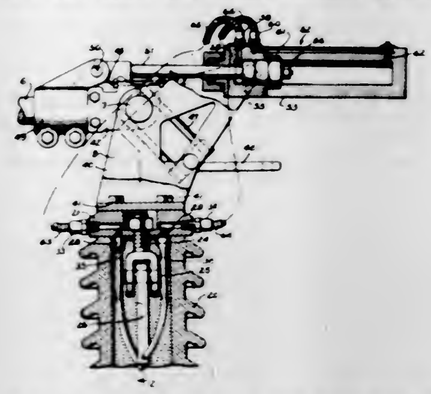
2,662,133

DISCONNECT SWITCH

Howard F. Burmeister, Harvey, Ill., assignor to Royal Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois

Application September 21, 1949, Serial No. 117,018
6 Claims. (Cl. 200—82)

1. A two insulator outdoor type disconnect switch comprising a stationary hollow insulator, a contact making member supported thereby, a double acting hydraulic mechanism also supported thereby, means connecting the mechanism with the contact making member for operating the contact making member, separate hose means providing separate fluid passageways extending to opposite sides of the mechanism for supplying liquid to the mechanism for actuating it, each of said hose means extending through the hollow supporting insulator, a filling



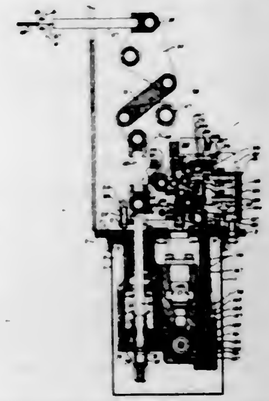
of liquid insulation within the insulator and through which insulation the hose means extends but is sealed therefrom, end caps for said insulator sealing said filling of liquid insulation from the atmosphere, said fluid passageways extending through the sealing end caps, a second insulator spaced from the first insulator, means for supporting the second insulator independently of and apart from the first insulator, and a contact member supported by the second insulator and adapted to be engaged by the contact making member in its switch closed position.

2,662,134

HYDRAULIC CIRCUIT-BREAKER MECHANISM

Donald M. Umphrey, Palo Alto, Calif., assignor to Pacific Electric Manufacturing Corporation, a corporation of California

Application July 7, 1951, Serial No. 235,587
10 Claims. (Cl. 200—82)



1. Mechanism for operating circuit breakers or the like comprising an operating piston and a cylinder for said piston, a hydraulic accumulator, a duct connecting said accumulator and

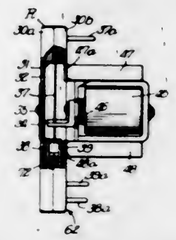
cylinder and a normally closed relay valve in said duct; a normally closed pilot valve connected to said accumulator and operative to admit pressure therefrom to open said relay valve, a relief valve opening from said duct between said relay valve and said cylinder, a trip coil, and a mechanical linkage including a latch for retaining said piston in operated position and means for holding said relief valve closed and operative to release both said latch and said holding means on operation of said trip coil.

2,662,135

PLUG-IN RELAY

Harold E. Seaton, Shelby, Ohio, assignor to The Autocall Company, Shelby, Ohio, a corporation of Ohio

Application July 28, 1948, Serial No. 41,029
10 Claims. (Cl. 200—87)



1. In a relay adapted for plug-in mounting in a panel, the combination of a mounting frame adapted to be secured to the panel, said mounting frame having an opening therein adapted to be aligned with an opening in the panel, a relay frame adapted to be mounted on said mounting frame, sealing surfaces establishing a dust-tight joint between said relay frame and said mounting frame, cooperating movable and stationary contacts carried by said relay frame in position to extend substantially parallel with the front face of the panel in the mounted position of the relay on the panel, plug-in sockets carried by one of said frames and cooperating plug-in prongs carried by the other of said frames for reception in said plug-in sockets, said prongs and sockets defining a plane of support for said relay frame extending substantially parallel to said panel, and an electromagnet and armature for actuating said movable contacts carried by said relay frame and extending rearwardly beyond said dust-tight joint and beyond said plane of support and through said openings in the mounting frame and panel in the mounted position of the relay on the panel.

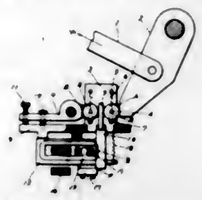
2,662,136

HIGH SPEED TRIP DEVICE FOR ELECTRIC CIRCUIT BREAKERS

Masatoshi Kuwayama, Taga, Japan, assignor to Hitachi Limited, Chiyoda-Ku, Tokyo, Japan

Application March 14, 1951, Serial No. 215,505
3 Claims. (Cl. 200—109)

1. A high speed trip device for electric circuit breakers, comprising a pair of cooperating rollers having their axes in parallel spaced relation, opposed inclined surface members biasing said rollers to roll in opposite directions, at least one of said members being a latch lever of the circuit breaker, a strip contiguous between said pair of rollers and connected with a movable armature of a tripping electro-magnet, said armature acting to prevent the bias of said rollers from operating said latch lever, and said armature operable upon energization of said tripping electro-



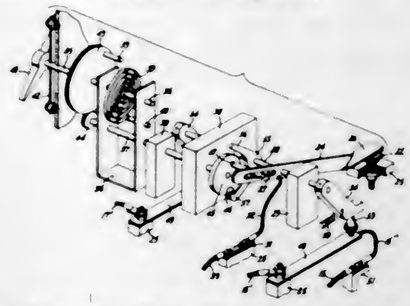
magnet to allow one of said rollers to move from restraining engagement with said latch lever, whereby the circuit breaker is allowed to operate.

2,662,137

TRANSFORMER PROTECTIVE SWITCH

Sidney R. Smith, Jr., Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application February 15, 1952, Serial No. 271,765
2 Claims. (Cl. 200—116)



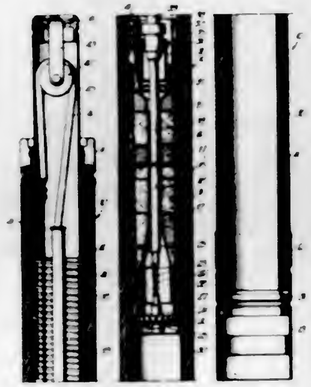
1. A protective device for electric apparatus comprising a relatively stationary contact and a rotatably mounted switch arm, said switch arm having a contact end engageable with said stationary contact and an elongated slot adjacent the opposite end thereof, switch drive means including a driving shaft and a driven shaft mounted in a support structure, said drive shaft having an indicator arm fixedly mounted on an end thereof, a driving gear fixedly mounted on said driving shaft, a driven gear fixedly mounted on said driven shaft and engageable with said driving gear, an escapement disk having a single tooth in the periphery thereof fixedly mounted on said driven shaft, a pin projecting transversely from a face of said disk and engageable with said slot in said switch arm, a torsion spring biasing said shafts, said indicator arm and said escapement disk for rotation in one direction to cause oscillation of said switch arm and alternate disengagement and engagement of said contact end with said stationary contact, a drive holding latch fixedly mounted for rotational movement on a shaft, a latch operating arm fixedly mounted for rotational movement on said latch shaft, said drive holding latch having a pair of arms alternately engageable with said tooth upon rotation of said holding latch and said operating arm respectively in opposite directions, a bimetallic element fixedly mounted at one end and the opposite end of said element being engageable with said latch operating arm and movable in response to a fault condition in said electrical apparatus to cause disengagement of one of said latch arms from said tooth to permit movement of said drive means and disengagement of said contacts and to simultaneously cause movement of the other of said arms for engagement with said tooth to limit the movement of said drive means and maintain said contacts out of engagement, and a spring biasing said latch operating arm for movement in a direction opposite the movement thereof caused by said bimetallic element, said last-mentioned spring being effective upon disengagement of said element with said operating arm to cause disengagement of said other latch arm with said tooth to permit movement of said drive means and engagement of said contacts, said switch arm mounted on said latch shaft, and a stop pin projecting from a face of said driving gear and engaging said support to cause said contacts to be locked in a disengaged position following a predetermined number of disengagements and engagements of said contacts, said torsion spring being rewindable by rotation of said indicator arm.

2,662,138

CIRCUIT INTERRUPTER HOUSING

Sigurd I. Lindell, Chicago, and Charles H. Baker, Maywood, Ill., assignors to S & C Electric Company, Chicago, Ill., a corporation of Delaware

Application March 30, 1951, Serial No. 218,448
9 Claims. (Cl. 200—120)



1. In a high voltage circuit interrupter, in combination, an insulating tube having a length several times its diameter and having a threaded inner surface over a length several times its diameter, line terminals at the ends of said tube, a one-piece tubular self-sustaining liner having a length several times its diameter and having a threaded outer surface threaded into said tube, the space occupied by said liner and said tube coextensive therewith being free from voids and no path being provided therebetween along which current can flow or an arc is likely to be struck, stationary conducting means extending from each line terminal into said tube for a substantial distance with the inner end of each conducting means projecting into the corresponding end of said liner, and means interconnecting said conducting means for drawing an arc within said tube and liner on operation of the interrupter, the break distance between the terminals of said arc drawing means in the circuit open position being less than the length of the juxtaposed threaded surfaces of said tube and liner.

2,662,139

CIRCUIT INTERRUPTER

Sigurd I. Lindell, Chicago, and Charles H. Baker, Maywood, Ill., assignors to S & C Electric Company, Chicago, Ill., a corporation of Delaware

Application February 27, 1952, Serial No. 273,638
18 Claims. (Cl. 200—120)



1. In a high voltage circuit interrupter for use with electric power systems wherein the transient recovery voltage may be substantially greater than the normal frequency recovery voltage, in combination, an insulating tube having an arcing passageway substantially equal in length to half the tube length and located substantially midway its ends, the inner surface of said tube coextensive with said arcing passageway being threaded, a filling of arc extinguishing material having its external surface threaded and interlocked with said inner surface of said tube whereby a devious path is provided therebetween and having a bore forming said arcing passageway, external terminals at the ends of said tube for connection to the circuit and between which said recovery voltages are applied, a stationary metallic extension from each of said terminals inside said tube extending to the adjacent end of said arcing passageway and for distances substantially beyond any part of the associated external terminal, and means for drawing an arc in said passageway on operation of the interrupter, said metallic extensions acting to distribute electrostatic stress at locations substantially one fourth the length of said tube from each end after interruption of current flow therethrough and applying voltage stress to the ends of said devious path which because of its greater length as compared to the length of said arcing passageway and the arc extinguishing material threaded into said tube has a higher voltage break down strength than does said arcing passageway and insuring that any restriking of an arc between said terminals will occur in said arcing passageway and not along a path between the former and external to the latter.

2,662,140

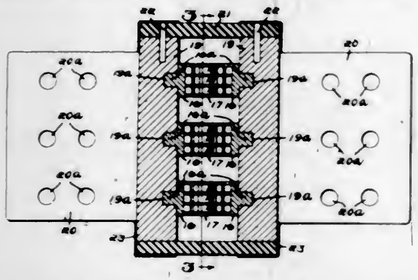
SUPERCURRENT FUSE

Frederick J. Kozacka, Amesbury, Mass., assignor to The Chase-Shawmut Company, a corporation of Massachusetts

Application August 15, 1952, Serial No. 304,585
7 Claims. (Cl. 200—120)

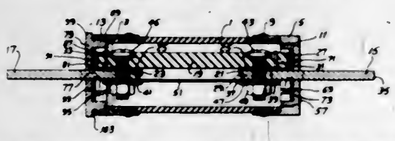
1. In a high capacity fuse the combination of a pair of spaced main terminals each having an electrical connector, a plurality of subassembly units each including a pair of spaced subassem-

bly terminals, an insulating structure arranged in the space between said pair of subassembly terminals, a plurality of fuse units, and joint tie means of insulating material for integrating said plurality of fuse units into a composite self-sustained structural unit, each of said pair of subassembly terminals being in immediate electrical contact with one of said pair of main terminal elements, each fuse unit of each said plurality of



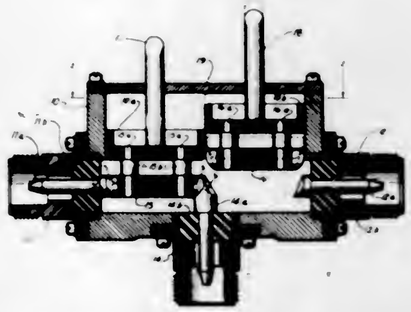
fuse units including a casing, a pulverulent arc-quenching filler within said casing, a fuse link within said filler, and a pair of terminal caps arranged at the ends of said casing and conductively interconnected by said link; each of the terminal caps of each said plurality of fuse units included in each said subassembly units being in immediate electrical contact with one said pair of subassembly terminals.

2,662,141
CARTRIDGE FUSE
Lewis Detch, Pittsburgh, Pa.
Application March 20, 1952, Serial No. 277,687
4 Claims. (Cl. 200—131)



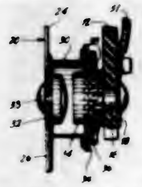
1. A fuse strip carrier and knife blade assembly, including, in combination, a spacer bar of insulating material, two metallic knife blades, one at each end of the spacer bar, each knife blade formed of two rectangular portions, one narrower than the other forming a tang end and a shoulder, one tang end lapping over one end of the spacer bar and the other tang end lapping over the other end of the spacer bar, metallic butt plates, one at each end of the spacer bar interposed between the tang end of a knife blade and the spacer bar, each butt plate formed with a flat plate portion contacting a tang end on one side and the spacer bar on the other, said butt plates each having two right angle portions, one at each end, one right angle portion directed in one direction and the other right angle portion in an opposite direction, one right angle portion on one butt plate abutting the end of the spacer bar and the other right angle portion on the same butt plate abutting the end of a tang, two rivets, one adjacent each end of the spacer bar, each rivet passing through the spacer bar and a butt plate and attaching the butt plate firmly to the spacer bar, said spacer bar formed with two through bores, one adjacent each end, each tang and each butt plate also formed with a through bore aligning with the through bores at each end of the spacer bar respectively, two screw threaded bolts, one positioned in each of the through bores of the spacer bar and passing through a tang end and a butt plate, two nuts and two washers, one of each on each of the bolts whereby a fuse link provided with a through bore in each end is attached spanning the space between tang ends, a metallic cup shaped member positioned on one tang between the adjacent shoulder and the adjacent spacer bar end, said metallic cup formed with a slot therethrough receiving the tang end with an external shoulder adapted for contact with an internal shoulder of a cartridge end ferrule and with a knurled outer periphery of a diameter adapted to make a close fit in a cartridge end ferrule internal bore adjacent inwardly of the said internal shoulder of a cartridge end ferrule, said metallic cup further formed with vent bores therethrough and a metallic washer formed with a through slot positioned on the tang between the metallic cup and the end of the spacer bar covering the said vent bores and means on the other tang for securing the assembly in a cartridge with the metallic cup pressed tightly against the said internal shoulder of an end ferrule.

2,662,142
COAXIAL-LINE SWITCH
Jessie Ann Nelson, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Army
Application November 3, 1950, Serial No. 193,836
12 Claims. (Cl. 200—153)



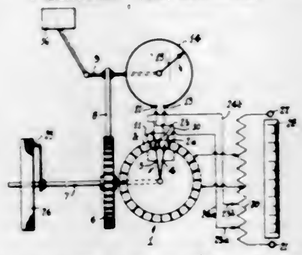
1. In a coaxial-line switch of the character described, a casing, a pair of coaxial-line connectors fixed with respect to said casing and each provided with an inner-conductor section, a third coaxial-line connector fixed with respect to said casing and provided with an inner-conductor section and disposed intermediate said first-named connectors, and switch elements supported by and for movement with respect to said casing and with respect to each other into and out of contact with said third-named section and with one of said first-named sections to connect said third-named section with either of the latter selectively, the inner wall portion of said casing forming in association with any combination of said three sections the outer-conductor of a coaxial transmission line, each of said switch elements being shaped and disposed for substantially complete withdrawal into the wall structure of said casing when in position out of contact with said third-named section, the longitudinal axes of said first-named connectors being disposed in nonparallel relation with respect to the longitudinal axis of said third connector, said first-named connectors being directed respectively in opposite directions from the longitudinal axis of said third connector.

2,662,143
PROTECTED SWITCH
Howard W. Eckles, St. Louis, Mo., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application February 25, 1950, Serial No. 146,236
1 Claim. (Cl. 200—168)



In an electrodynamic machine, switch construction comprising, in combination, a base, a stationary contact supported thereon, a movable switch blade supported thereon, a movable contact on said switch blade in opposed make and break relation to said stationary contact, a cup member surrounding said movable contact and supported by said switch blade for movement therewith, said cup member surrounding a portion of said stationary contact including its contact face, a nonconductive washer movably disposed about the stationary contact and engaging the open face of said cup member, a resilient metallic compression member interposed between said washer and said base for biasing the washer continuously against said cup member for movement therewith, and a stop member supported on the base for withstanding the biasing load of said compression member when the contacts are predeterminately separated and thereby preventing uncupping of the contact faces.

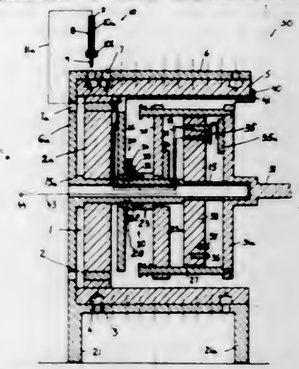
2,662,144
VARIFUNCTION POTENTIOMETER
Jerzy J. Wilentchik, New York, N. Y.
Application September 19, 1949, Serial No. 116,508
7 Claims. (Cl. 201—48)



1. A functionally adjustable voltage division device comprising in combination, a pair of terminals, voltage division means connected between said pair of terminals, a plurality of contact elements disposed on said voltage division means, means to adjust said contact elements along the length of said division means between said terminals, an impedance component adapted to be connected to said elements, a third terminal, and a wiping contact device connected to said third terminal and adapted for displacement along the length of said impedance component.

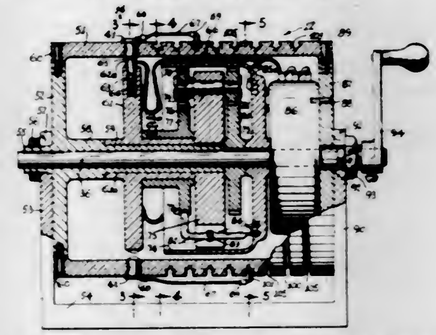
2,662,145
CHARACTERISTIC CHANGER
Jerzy J. Wilentchik, New York, N. Y.
Application January 20, 1950, Serial No. 139,572
12 Claims. (Cl. 201—48)

1. In combination, a mandrel, a groove in said mandrel, a resistance means disposed within said groove, a plurality of contact elements, locking means common to said elements and to said



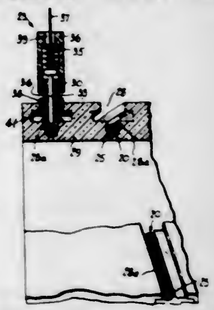
groove to lock said elements at any desired point of said groove in electrical engagement with said resistance means.

2,662,146
VOLTAGE AND POSITION CONTROL SYSTEM
Jerzy J. Wilentchik, New York, N. Y.
Application April 14, 1950, Serial No. 155,864
34 Claims. (Cl. 201—48)



1. In combination, a mandrel having a groove, an impedance element disposed within said groove and a plurality of taps adjustably connected along the length of said groove in electrical engagement with said element.

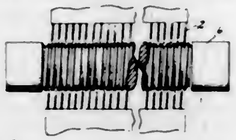
2,662,147
VARIFUNCTION POTENTIOMETER
Jerzy Wilentchik, New York, N. Y.
Application August 24, 1950, Serial No. 181,255
27 Claims. (Cl. 201—48)



1. In combination, a mandrel provided with a multi-turn, shaped groove, a voltage division

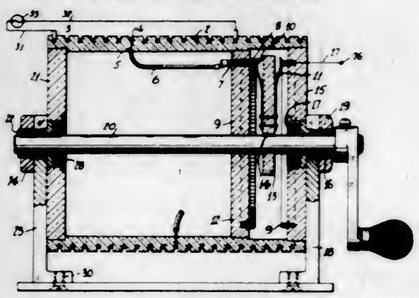
means being arranged within said groove, a plurality of manually attachable contacts adapted to be attached conductively to said division means at preselected locations of said groove.

2,662,148
GANGED CIRCUIT ELEMENT
George R. Stibitz, Burlington, Vt.
Application January 6, 1953, Serial No. 329,779
19 Claims. (Cl. 201—48)



1. Ganged electric multiple circuit construction comprising a ganged insulated flat cable having a plurality of spaced parallel conductors, a portion of said cable being stripped to expose the parallel conductors; an insulator having a plurality of grooves in the surface thereof; said grooves being spaced to correspond to the spacing of the exposed conductors, there being one said conductor in a groove; and means for retaining said conductors in said grooves.

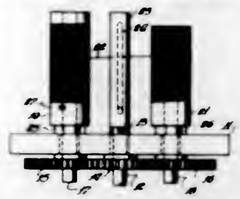
2,662,149
CHARACTERISTIC CHANGER AND LINEAR POTENTIOMETER
Jerzy J. Wilentchik, New York, N. Y.
Application May 9, 1950, Serial No. 160,881
7 Claims. (Cl. 201—56)



1. In a functionally adjustable, variable resistor, in combination, a mandrel, a wire of appropriate resistivity disposed along the length of said mandrel, a plurality of contact elements, interlocking means common to said mandrel and to said contact elements to maintain said elements in electrical engagement with said wire at any point along the length of said wire, means to manually adjust and readjust said contact elements along the length of said wire, resistance means, conductor means connecting said contact elements to points located selectively on said resistance means, and wiping means adapted to be disposed along the length and in conductive engagement with said resistance means.

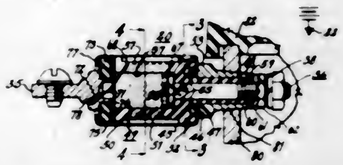
2,662,150
CONTINUOUSLY VARIABLE RESISTOR
William J. Mairs, Waltham, Mass., assignor to Technology Instrument Corporation, Acton, Mass.
Application January 15, 1952, Serial No. 266,530
3 Claims. (Cl. 201—59)

1. A variable resistor comprising an insulated grooved round support having a flexible resistance element space wound thereon, a stationary electrical contact extending generally parallel along said round support, said flexible resistance element passing over said contact, means for rotating said support for imparting relative motion between said contact and said element to wind



or unwind said resistance element, and means for maintaining substantially constant pressure between said resistance element and said contact, comprising an idler roller positioned parallel to said contact and engaging said resistance element.

2,662,151
RESISTOR TERMINAL
Max G. Bales, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 4, 1952, Serial No. 265,613
3 Claims. (Cl. 201—67)

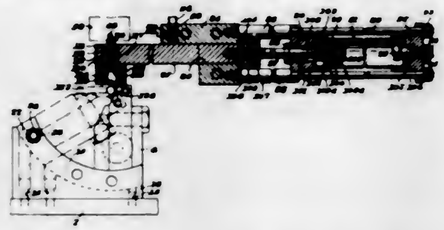


1. A terminal assembly for use with an electrical apparatus having a metal housing, said assembly comprising the housing, a heat conducting casing adapted to be supported by the housing, said casing having a closure of insulating material at one end; a terminal carried by the closure; a sleeve of insulating material located within the casing and having an internal shoulder; a second terminal adapted to clamp the sleeve against an internal wall of the casing, said terminal having a head adapted to engage the shoulder, a shank portion extending into the housing and having a threaded portion and a nut threadedly engaging the shank whereby the tightening of the nut clamps the sleeve against the casing; means for insulating the second terminal and the nut from the casing; a resistance element carried by the sleeve; and means for establishing electrical contact between said resistance element and said terminals, said resistance element having its intermediate portion sufficiently close to the casing whereby the casing will be effective for absorbing heat emanating from the resistance element when hot.

2,662,152
APPARATUS FOR MAKING LUBRICATION FITTINGS
Austin L. Staley, Fox Chapel, Pa., assignor to Universal Lubricating Systems, Inc., Oakmont, Pa., a corporation of Delaware
Application August 18, 1948, Serial No. 44,881
5 Claims. (Cl. 219—4)

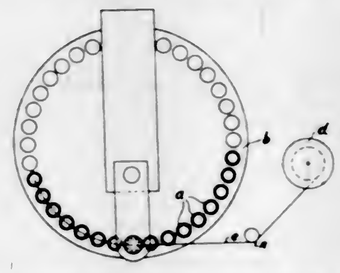
1. Apparatus for making lubrication fittings comprising a work holder and a welder to which the work holder is adapted to present a portion

of a lubrication fitting body held by the work holder to be acted upon by the welder, the welder including an electrode separate from the work holder for engagement with the lubrication fitting body held by the work holder, a second work holder for holding a tip to be welded to the body,



means for advancing the second work holder to press the tip against the body and means for passing an electric current through the tip and body and said electrode while the tip is being pressed against the body to weld the tip to the body.

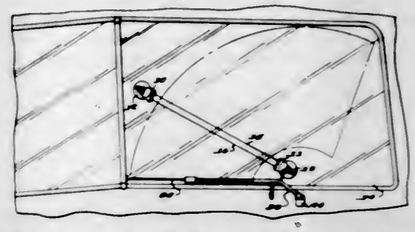
2,662,153
METHOD AND DEVICE FOR WELDING WIRES ON METAL BODIES
Ulrich Günther, Domat (Ems), Switzerland, assignor to Inventa A. G. für Forschung und Patentverwertung, Zurich, Switzerland
Application August 31, 1951, Serial No. 244,615
2 Claims. (Cl. 219—10)



1. A process for welding thin wires to small metal pole supporting bodies which comprises arranging said bodies in a circle closely to, but insulated from, one another, said bodies having two poles; disposing a welding electrode above said circle in a fixed relationship to a spot below said electrode but vertically movable thereto; providing switch means for connecting only the one of the poles exactly underneath the welding electrode, while leaving the other pole unconnected; making the wire meet said circle at a tangent at said spot below said electrode, and actuating said switch for welding when said pole and said electrode are in opposite positions.

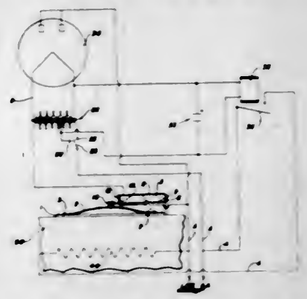
2,662,154
WINDSHIELD WIPER DEICER
William Joseph Cochran, Cheyenne, Wyo.
Application September 11, 1951, Serial No. 246,032
4 Claims. (Cl. 219—19)

1. A windshield cleaner comprising a pair of wires, an L-shaped bracket connected to the ends of the wires, means connected to said wires at the ends connected to one of the brackets for inducing a current into said wires for the heating thereof, means attached to each of said brackets for temporarily retaining the wires on the face of a windshield in the path of a wiper



for the windshield and means for moving the wiper into contact with the wires.

2,662,155
ELECTRONIC RELAY CONTROL
Jack Holmes, Cleveland, Ohio, assignor to James C. Heintz & Company, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 20, 1951, Serial No. 222,000
2 Claims. (Cl. 219—20)

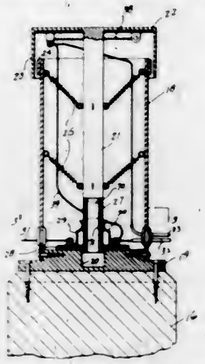


1. A power control circuit for an alternating current line for the control of the flow of current to a power load including a direct current actuated relay between said line and said power load, consisting of a relay control circuit including a thermostat and switch contacts associated therewith so constructed and arranged to make and break a circuit in response to a thermal condition of said power load, a transformer connected to said alternating current line and having the energization of the primary thereof controlled by said switch contacts, a vacuum diode rectifier tube, the filament of which is connected to the secondary of said transformer, the direct current output of said rectifier being connected to the coil of said relay in said power control circuit, a condenser connected across the output of said rectifier connected to the coil of said relay, whereby any fluctuation of current resulting from chattering of said switch contacts as the circuit controlled thereby is opened, is suppressed in the direct current circuit of said relay control and the holding power of the relay diminished unidirectionally.

2,662,156
AUTOMATIC DEICER FOR ELECTRICAL TRANSMISSION LINES
John H. Potter, Milwaukee, Wis.
Application May 15, 1953, Serial No. 355,381
4 Claims. (Cl. 219—20)

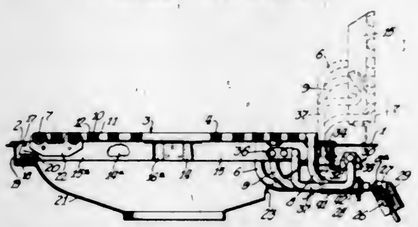
1. In a transmission line, a support, a pair of transmission line conductors on said support, a switch housing on said support, a weight-responsive flat top member overlying said switch hous-

ing, means movably connecting said top member to said housing, said top member being movable relative to said housing when a predetermined weight of ice collects thereon, electrical heating means in heat-transmitting relation to said top member and conductors, a normally open switch



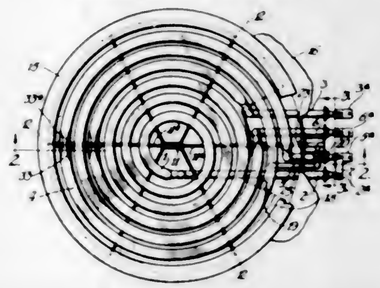
in said housing, means closing said switch responsive to movement of said top member, spring means biasing said top member toward switch-opening position, and circuit means electrically connecting said heating means to said line conductors through said switch.

2,662,157
SURFACE HEATING UNIT WITH IMPROVED HINGE AND GROUND CONNECTION
Ben J. Vallorani, Melrose Park, Ill., assignor to General Electric Company, a corporation of New York
Application July 28, 1951, Serial No. 239,117
4 Claims. (Cl. 219—37)



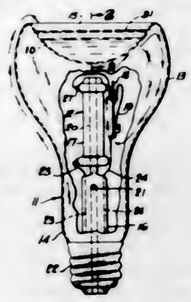
1. A surface heating unit for an electric range or the like, comprising, in combination, a support structure, a plurality of coiled tubular sheath heating elements mounted thereon, a single means secured to said support structure and engaging the sheath of each of said heating elements at one point only to secure the same to said support structure, said heating elements having rectilinear terminal portions extending in substantially parallel relation beyond said support structure, at least two of said terminal portions being structurally independent for movement relative to each other, a metallic hinge member having pivotally associated hinge elements respectively secured to said range and to the support structure, said hinge member being electrically connected to said range, and metallic ground strap means including a cross member rigidly electrically connected to, and extending angularly with respect to, said last-named hinge element, and springable strips extending from said cross member, each of said strips being parallel to a different one of said terminal portions and in spaced relation therewith, the end of each said strip remote from the cross member being electrically connected to the sheath of its associated terminal portion.

2,662,158
HEATING UNIT AND METHOD OF MAKING THE SAME
Ben J. Vallorani, Melrose Park, and Clarence J. McConnell, Chicago, Ill., assignors to General Electric Company, a corporation of New York
Application July 28, 1951, Serial No. 239,118
6 Claims. (Cl. 219—37)



1. A surface heating unit, including a support structure having a plurality of radially arranged vertical plate members, the upper edges of which occupy a common plane, a tubular sheathed heating element of flat coil form supported on said upper edges, the major portion of said heating element having a sheath of approximately semicircular cross section providing a flat heat transfer surface occupying a common plane and a very short length only of said sheath intermediate the ends thereof having shoulder portions sloping outwardly and downwardly from said flat heat transfer surface, and means for securing said sheath to one of said support plates, comprising an anchor member fixed to said plate and having upwardly and inwardly extending rectilinear jaws in tight surface engagement with said shoulder portions; the slope and extent of said shoulder portions establishing maximum vertical and transverse sheath dimensions maintaining the cross sectional area of said heating element at the point of securement equal to that of the remainder of the spirally formed element.

2,662,159
VAPORIZER
Myers Allen Bilofsky, Loch Arbour, and Charles W. Putnam, Morristown, N. J.
Application May 31, 1952, Serial No. 290,888
4 Claims. (Cl. 219—38)



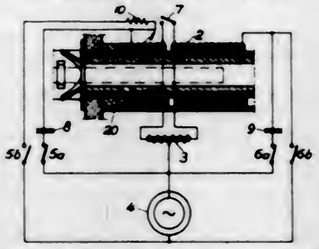
1. A vaporizer comprising an envelope, the envelope having a bulb portion integrally formed with a narrow neck, the bulb portion having formed therein a dish-like receptacle for the substance to be vaporized, the envelope being chemically inert and having a melting point above the vaporization temperature of the substance to be vaporized; the device further comprising an electrical heating unit disposed in the envelope adjacent the inner surface of the receptacle, the heating unit comprising a resistor, a circuit for the resistor disposed through the narrow neck, a bimetallic element for the circuit in spaced arrangement with the resistor, the bimetallic element decreasing the heat output of the resistor when the temperature in the envelope substantially exceeds the temperature of vaporization rate of the substance to be vaporized and increasing the heat output of the resistor when the temperature in the envelope falls below the temperature of vaporization rate, and means for shielding the bimetallic element against the direct heat of the resistor, the bimetallic element being located adjacent said receptacle and in the path of air current which has passed said receptacle.

2,662,160
CONTROL SYSTEM SUITABLE FOR AUTOMATIC COFFEE MAKERS
August C. Purpura, Chicago, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application December 7, 1949, Serial No. 131,581
9 Claims. (Cl. 219—43)



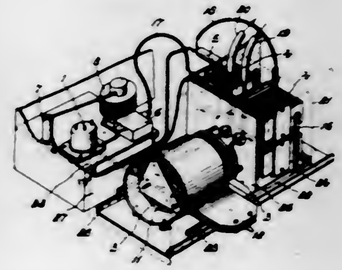
1. In combination, an object to be heated, an electrical heating element therefor, a switch to control the flow of current through said heating element, two heat responsive members in good heat conductive relation to said object, the first of said members operating to open the switch when said object is above a predetermined low temperature, a latch that tends constantly to move into position to restrain the first heat responsive member against functioning, and the second heat responsive member having a part that engages the latch and moves it into the release position when the temperature of said object reaches a predetermined high value.

2,662,161
ELECTRIC EDDY CURRENT FURNACE
Ludwig Dreyfus, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application April 5, 1950, Serial No. 154,142
Claims priority, application Sweden April 29, 1949
5 Claims. (Cl. 219—47)



1. Electric eddy current furnace adapted to heat work pieces of varying length, comprising a substantially cylindrical winding surrounding a space for receiving work pieces and divided into portions connected in parallel through an interphase transformer connecting one end of one winding portion to one end of another one, condenser means connected in parallel to said winding portions and a source of alternating current adapted to feed said winding portions through said interphase transformer.

2,662,162
HIGH-FREQUENCY FURNACE
Lourens Blok, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 11, 1951, Serial No. 261,107
Claims priority, application Netherlands January 12, 1951
5 Claims. (Cl. 219—47)



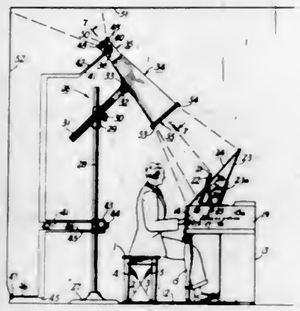
1. A high-frequency furnace including an output discharge tube having an output electrode and an oscillatory circuit coupled to said electrode and constituted by a coil and a capacitance, a carrier for supporting said coil and said capacitance as a structural unit, an output coil fixedly mounted in said furnace for inductively coupling said oscillatory circuit to a load, and means movably mounting said unit in said furnace to effect displacement of said circuit coil relative to said coupling coil.

2,662,163
COMBINATION LIGHTING FIXTURE AND CURTAIN HOLDER
William J. Mollner, Pittsburgh, Pa.
Application August 10, 1950, Serial No. 178,650
4 Claims. (Cl. 240—2)



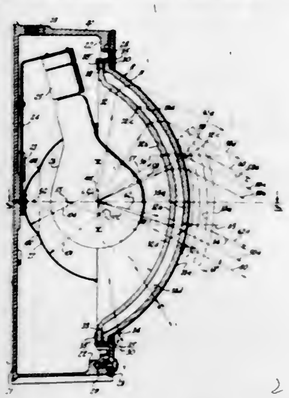
1. A curtain fixture having a panel portion formed of two sections each having its top and bottom edges rolled over to form channel portions along the inner face thereof, said sections being telescopically fitted together, each section having a bracket portion at its end by means of which it may be supported on a window frame, and a light-supporting terminal on the inner face of each section, said terminal having a base portion which is engaged in the channel portions of the section on which it is mounted, and means for adjustably clamping said terminals in position.

2,662,164
ILLUMINATING MEANS FOR MUSICAL SCORE SUPPORTING DEVICES
Alan E. Murray, New York, N. Y.
Application April 11, 1951, Serial No. 220,455
6 Claims. (Cl. 240—4)



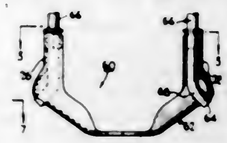
5. In combination, an inclined illuminating means comprising a source of light, a reflecting light housing open at both ends, an open-ended light transmitting enclosure connected thereto, a light-reducing screen for receiving light and delivering a modified form of said light from said housing and non-reflecting light-transmitting enclosure and a similarly inclined musical score supporting device adapted to be illuminated through the screen, said device comprising also a non-reflecting background.

2,662,165
YARD AND STREET LIGHTING SYSTEM AND LUMINAIRES FOR USE THEREIN
Kurt Franck, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application November 29, 1950, Serial No. 198,187
9 Claims. (Cl. 240—25)



3. In combination, a light source emitting to one side of a vertical plane light rays in a hemisphere, a refractor intercepting said rays, the refractor being of spherical contour having its center at the same elevation as the light source and occupying a spherical segment of greater radius than the distance from the light source to the refractor whereby the intersections of the refractor by horizontal planes above and below the horizontal plane through the source are circles and light falling thereon is in an oblique circular cone with apex at the source and decreasing vertical angles each side of the vertical median plane, the refractor having opposed horizontal prisms whose refracting power at each elevation varies with the azimuth angle in an amount to compensate for the variation in vertical angle so that the oblique circular cones of rays intercepted by the horizontal prisms are refracted downwardly into a right circular conical region, the said horizontal prisms extending below the horizontal to an angle corresponding with the angle from the nadir to the last mentioned conical region, the portion of the refractor below the horizontal prisms having light diffusing flutes.

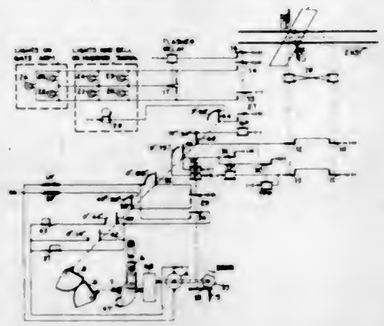
2,662,166
LAMP HARP
Kornel Berger, Kew Gardens, N. Y.
Application October 13, 1949, Serial No. 121,191
1 Claim. (Cl. 240—148)



A take-apart lamp harp comprising a resilient bail circular in cross-section and a bracket, the bracket including two arms of oppositely facing U-shaped cross-section extending upwardly from the bracket, the open space between the legs of the U being wider than the diameter of the bail, the bail including an elongated resilient member having straight portions adjacent the ends thereof which when engaged with the bracket press against the bases of the U's, the bracket and bail being so mutually formed that the same are engaged and disengaged by transverse movement of the ends of the bail, and a means for locking the bail to the bracket, said means comprising a socket at the upper end of each bracket arm, the socket being open at the top of the bracket arm, said socket being formed within the U-shaped cross-section of the arm and being wider than the space between the legs of the U so that the socket has a transversely facing constricted side entrance which freely passes the associated straight end portion of the bail, and a sleeve captively slidable on each straight end portion of the bail, said sleeve being snugly receivable in its associated socket in a direction axially of the socket, said sleeve being larger than the constricted side entrance of the associated socket whereby when the sleeves are in the sockets the bail cannot be detached from the bracket.

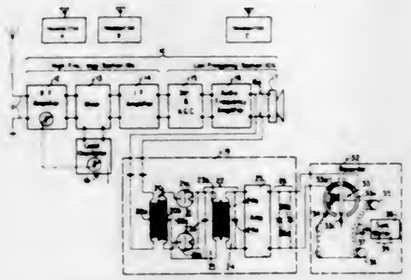
2,662,167
HIGHWAY CROSSING GATE CONTROL SYSTEM
John C. Lindner, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application June 18, 1949, Serial No. 100,066
1 Claim. (Cl. 246—130)

In a control system for a highway crossing gate, a normally energized hold clear magnet for mechanically latching said gate in an upright position, said magnet being deenergized only when a train is in approach to and crossing said highway, a rotary contactor having contacts whose operation is governed by the angular position of said gate, a motor including an armature and two field windings for driving said gate to selected upward and downward positions, circuit means governed by said hold clear magnet and effective when said hold clear magnet is deenergized for energizing one of said field windings in series with said armature and for connecting the other of said field windings in shunt across said armature, the polarity of energization of said windings being chosen in relation to the polarity of current



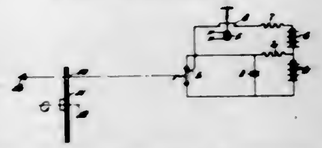
in said armature to cause said motor to drive said gate downwardly, said circuit means being effective when said hold clear magnet is energized and said gate is in its downward position to energize said armature in series with said other field winding, the polarity of energization of said other winding being chosen in relation to the polarity of current in said armature to cause said motor to drive said gate upward.

2,662,168
SYSTEM OF DETERMINING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS
Serge A. Scherbatskoy, Tulsa, Okla.
Application November 9, 1946, Serial No. 709,018
8 Claims. (Cl. 250—2)



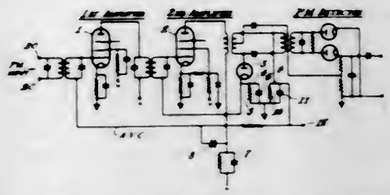
7. In a system for statistically determining the audience ratings of programs radiated from a plurality of wave-signal transmitters, a wave-signal receiver tunable to receive programs for any one of said transmitters and provided with a signal channel for transmitting program signals to a transducer, means coupled to said channel, comprising filter means, operative to select from said program signals predetermined sub-audible frequency components to provide a signal pattern uniquely representative of the dynamic pattern of the program being received, and means fed by said filter means for comparing said signal pattern with a plurality of standard signal patterns.

2,662,169
APPARATUS FOR TRANSMITTING AND RECEIVING LIGHT SIGNALS
Cornelis Zwikker, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 21, 1950, Serial No. 145,340
Claims priority, application Netherlands February 25, 1949
1 Claim. (Cl. 250—7)



A system for transmitting and receiving light signals comprising a light emitter disposed at a first point, energizing means coupled to said emitter for energizing same intermittently to produce light signals of relatively short duration, means disposed at a point remote from said first point to receive said light signals including an obturator opening periodically, a radio transmitter coupled to said obturator for transmitting periodic radio signals in synchronism with said periodic opening, and a radio receiver responsive to said radio signals and coupled to said energising means to actuate same in synchronism with the received radio signals, whereby the disposition of said first point relative to the remote point may be determined.

2,662,170
RADIO RECEIVING CIRCUIT WITH AUTOMATIC VOLUME CONTROL AND NOISE SUPPRESSING MEANS
Willem Wigger Boelens, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 26, 1949, Serial No. 106,802
Claims priority, application Netherlands August 17, 1948
2 Claims. (Cl. 250—20)



1. A radio receiver for a frequency-modulated wave having unwanted amplitude modulation components comprising first and second amplifier stages coupled in cascade relation, means to feed said wave through said stages to effect amplification thereof, an amplitude detection circuit coupled to the output of said second stage and including a diode having an anode and a cathode, a first resistance-capacitance network connected between said cathode and a point of constant potential and a second resistance-capacitance network connected between said anode and said point, said first network having a time constant at which a positive-going first potential is developed thereacross with respect to said point depending on relatively rapid amplitude variations in said wave, said second network having a time constant at which a negative-going second potential is developed thereacross with respect to said

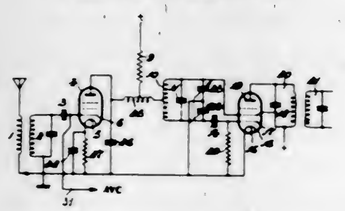
point depending on relatively slow amplitude variations in said wave, means to apply said first potential to said second stage to effect reflex amplification and phase reversal thereof to produce a control voltage in the output of said second stage, means to apply said control voltage to one of said stages to effect automatic volume control thereof, and means to apply said second potential to said first stage to effect automatic volume control thereof.

2,662,171

SUPERHETERODYNE RECEIVING ARRANGEMENT FOR USE AT ULTRASHORT WAVES

Ludolf Jentje Cock, Bernhardus Gerhardus Dammers, Willem Wigger Boelens, and Jacobus Rodrigues de Miranda, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application February 15, 1950, Serial No. 144,328
Claims priority, application Netherlands
February 16, 1949
10 Claims. (Cl. 250—20)



1. A circuit arrangement for mixing a first wave and a second wave to produce an intermediate frequency wave, comprising an electron discharge tube having a cathode, a control grid, an accelerating grid and an anode, a first impedance network tuned to the frequency of said second wave and comprising a tapped inductive element coupled between said grids, a first capacitive element coupled between one end of said inductive element and said cathode and a second capacitive element coupled between the other end of said inductive element and said cathode, means to apply a positive potential relative to cathode to said accelerating grid thereby to sustain local oscillations at the frequency of said second wave in said first network, means including an impedance element to apply said first wave to the tap of said inductive element, said impedance element and said first network constituting a circuit tuned to said first wave, said tap having a position at which a change in the impedance element does not affect the tuning of said first network with respect to said second wave, a second impedance network coupled to said anode, and means to derive said intermediate frequency wave from said second impedance network.

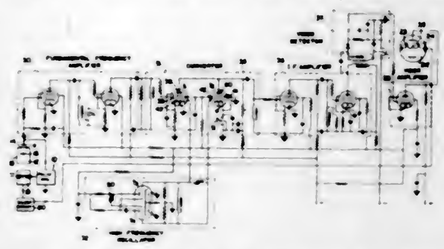
2,662,172

OSCILLATOR CANCELLATION FREQUENCY CONVERTER

Elliott A. Henry, Bridgeport, Conn., assignor to Sperry Products, Inc., Danbury, Conn., a corporation of New York

Application February 21, 1950, Serial No. 145,480
3 Claims. (Cl. 250—20)

1. In a heterodyne frequency converter system having both input and output circuits unbalanced with respect to ground, a device for eliminating the heterodyne oscillator voltage from the output of the converter system, comprising a heterodyne circuit including a converter and a heterodyne oscillator for generating voltages adapted to be heterodyned in the converter with an incoming signal voltage, and means for injecting into the converter output



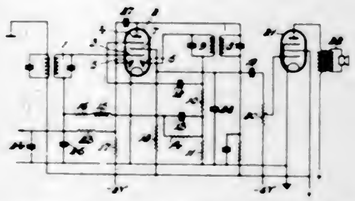
circuit a voltage equal in frequency and amplitude and opposite in phase to the heterodyne oscillator frequency voltage normally present in the converter output circuit.

2,662,173

RADIO RECEIVING CIRCUIT WITH REFLEX MEANS

Johan Hendrik van Wageningen and Jan Schreur, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application December 26, 1951, Serial No. 263,208
Claims priority, application Netherlands
January 20, 1951
3 Claims. (Cl. 250—20)



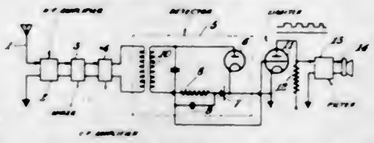
1. In radio receiver apparatus responsive to an incoming high-frequency wave amplitude modulated by a low-frequency signal, a reflex amplifier stage including an electron discharge tube having a cathode, a control electrode and an output electrode, an input circuit having one end thereof coupled to said control electrode and tuned to the frequency of said high-frequency wave, an output circuit coupled between said output electrode and said cathode and a first capacitance connecting the other end of said input circuit to said cathode and having an impedance value which is relatively low for the frequency of said wave and relatively high for the frequencies of said signal, means to supply said modulated wave to said input circuit whereby an amplified modulated wave is produced across said output circuit, a detector circuit coupled to said output circuit and including a rectifying element in series with a first resistance whereby said low-frequency signal is developed across said first resistance, and a series network connected between a point on said first resistance and the junction of said input circuit and said first capacitance to supply said detected signal to said tube for amplification thereof, said series network being constituted by a second resistance in series with an inductance having values effectively decoupling said detector circuit from said input circuit with respect to high-frequency wave and a second capacitance having a direct-current path shunted thereacross.

2,662,174

AMPLITUDE DISCRIMINATING NOISE REDUCING MEANS

Herre Rinia, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 16, 1946, Serial No. 684,072
In the Netherlands November 25, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires November 25, 1962
2 Claims. (Cl. 250—20)



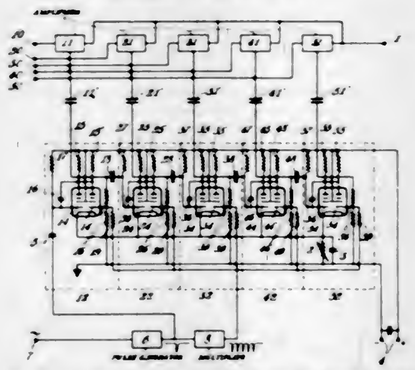
1. In a receiver for demodulating incoming successive radio-frequency pulses whose duration varies as a function of the instantaneous amplitude of a signal, the combination comprising a detector for translating the incoming pulses into corresponding voltage impulses, said detector including a diode electron tube and means for applying a bias voltage across said tube whereby said detector is responsive solely to applied voltages exceeding a predetermined amplitude, and an amplitude limiter coupled to the output of said detector and arranged to remove extraneous amplitude modulation present in the voltage impulses applied thereto, said limiter including an electron discharge device having a cathode, a grid and an anode, an anode resistor, means to apply a positive potential through said resistor to the anode of said tube and means to apply a bias voltage to the grid of said device whereby said tube has a limit value below the amplitude of the voltage impulses applied thereto.

2,662,175

MULTIPLEX TRANSMISSION DEVICE

Cornelis Johannes Henricus Antonius Staal, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application February 18, 1948, Serial No. 9,165
Claims priority, application Netherlands
March 5, 1947
2 Claims. (Cl. 250—27)



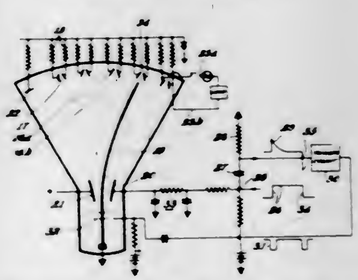
1. In a multiplex transmission system provided with a plurality of transmission channels sequentially and periodically rendered operative by rectangular gating pulses applied to each channel, apparatus for producing said gating pulses comprising a like plurality rectangular-pulse generators each constituted by first and second electron discharge tubes having a cathode, a grid and an anode, the cathodes of said tubes being interconnected, the grid of the first tube being capacitively coupled to the anode of the second tube and the grid of the second tube being directly coupled to the anode of the first tube to define an unbalanced trigger circuit normally remaining in one equilibrium state and reverting to said state after a predetermined interval when triggered by a pulse applied to the grid of the first tube into another equilibrium state, a common cathode bias resistor connected to the interconnected cathodes in all of said generators, means coupling the anode of the first tube in each of said generators to the grid of the first tube in the succeeding generator to provide a cascade arrangement in which each succeeding generator is triggered at the trailing edge of the rectangular-pulse yielded in the preceding generator, means to apply triggering pulses periodically to the grid of the first tube of the first said generators in the cascade whereby for each of said pulses said generators are triggered in sequence, and means to apply the rectangular pulses produced in each generator to a respective channel to render same operative.

2,662,176

CIRCUIT ARRANGEMENT COMPRISING AT LEAST ONE SWITCH FOR THE CONTROL OF AT LEAST ONE LEAD

Johan Lodewijk Hendrik Jonker, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application March 6, 1948, Serial No. 13,474
Claims priority, application Netherlands
April 21, 1947
9 Claims. (Cl. 250—27)



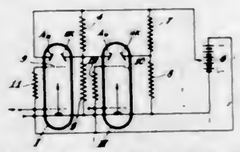
1. Switching apparatus for controlling current flow in an electrical conductor over which alternating-currents may be transmitted in either direction, said apparatus comprising a cathode-ray tube provided with a pair of secondary-emission collecting electrodes having substantially similar secondary-emission characteristic curves and means including a cathode for projecting a primary electron beam onto said electrodes, a pair of resistances of substantially equal value, means to apply a constant potential through the respective resistances to said collecting electrodes, said electrodes effectively constituting the contacts of an electrical switch, and means to interpose said switch in said electrical conductor whereby an alternating-current along said conductor gives rise to a potential difference between said electrodes resulting in a secondary electron flow therebetween in a direction depending on said potential difference, thereby closing said contacts.

2,662,177

SWITCHING SYSTEM USING SECONDARY EMISSION TYPE BEAM TUBES

Willem Six, Johan Lodewijk Hendrik Jonker, and Zeger Van Gelder, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application March 10, 1948, Serial No. 13,996
Claims priority, application Netherlands
April 21, 1947
9 Claims. (Cl. 250—27)



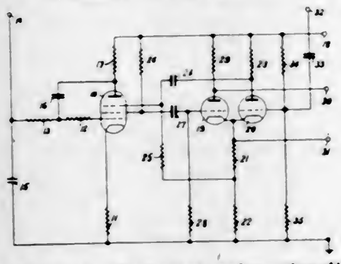
1. A switching circuit arrangement comprising first and second relay devices each constituted by an electron discharge tube including an electron-emissive cathode, two spaced collecting electrodes one of which is emissive of secondary electrons to form an auxiliary cathode, means to control the flow of electrons from the cathode to said collecting electrodes, the secondary electrons emitted by said auxiliary cathode flowing to the other collecting electrode to define a switching path therebetween, means to apply direct-current potentials to the collecting electrodes of said relay devices, a first resistance element interposed between the auxiliary cathode of said first relay device and the direct-current potential applied thereto, a second resistance element connected between the auxiliary cathode and the cathode of said first relay device, and means to apply the voltage developed across said second element to one of the electrodes in said second relay device.

2,662,178

VOLTAGE GENERATING CIRCUIT

Derek Alfred Levell, Highbury, London, England, assignor to A. C. Cossor Limited, London, England, a company of Great Britain

Application May 31, 1951, Serial No. 229,070
Claims priority, application Great Britain
June 8, 1950
8 Claims. (Cl. 250—27)



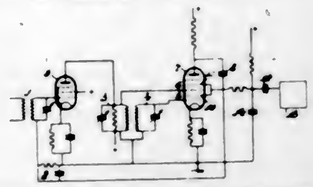
1. An electron discharge valve circuit, comprising a first electron discharge valve having an anode, a cathode and three control electrodes, the first of said control electrodes being nearest said cathode, a second being between the first control electrode and the anode, and a third being nearest the anode of said first valve, a source of direct current, a first resistor, means connecting said resistor between said first control electrode and the positive terminal of said source, a second resistor, means connecting said second resistor between an anode of said first valve and said positive terminal, a capacitor, means connecting said capacitor between the anode and the first control electrode of said first valve, means connecting the cathode of said first valve to the negative terminal of said source, second and third electron discharge valves each having an anode, a cathode and at least one control electrode, a common cathode coupling element for said second and third valves, means connecting said common cathode coupling element between the cathodes of said second and third valves and the negative terminal of said source, a load element for said second valve, means connecting said load element between the anode of the second valve and the positive terminal of said source, means connecting the anode of said third valve to the positive terminal of said source, means coupling the anode of said second valve to said third control electrode of said first valve, and means connecting the second control electrode of said first valve to the control electrode of said third valve.

2,662,179

CIRCUIT-ARRANGEMENT FOR RECEIVING AND DETECTING FREQUENCY MODULATED OSCILLATIONS

Gerard Hepp, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application December 23, 1947, Serial No. 793,496
In the Netherlands December 4, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires December 4, 1966
15 Claims. (Cl. 250—27)



1. A circuit arrangement for detecting a frequency modulated wave having frequency deviations proportional to amplitude variations of a modulating signal wave, comprising a transmission path having a variable amplification, means to apply said frequency modulated wave to said transmission path, means to derive from said transmission path a second frequency modulated wave having frequency deviations and amplitude variations varying with variations of said signal wave, first rectifying means to derive from said second frequency modulated wave a control potential having amplitude variations proportional to the frequency deviations and the amplitude variations of said second frequency modulated wave, means to apply said control potential to said transmission path to vary the amplification thereof proportional to the amplitude variations of said control potential, and second rectifying means to derive said signal wave from said second frequency modulated wave.

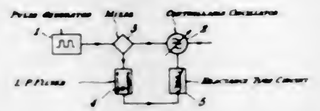
2,662,180

SPECTRUM LOCK-IN ARRANGEMENT WITH AUTOMATIC FREQUENCY CONTROL

Eduard Herman Hugenholtz, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application August 11, 1948, Serial No. 43,594
Claims priority, application Netherlands
September 23, 1947
7 Claims. (Cl. 250—36)

1. Apparatus for producing an electrical wave whose frequency is variable in equi-spaced steps within a predetermined tuning range comprising a wave generator continuously variable in frequency within said predetermined range, a source producing a voltage constituted by a spectrum of equi-spaced oscillatory components whose spacing corresponds to the spacing of said steps, and an automatic-frequency-regulating system effecting a predetermined frequency relation between the operating frequency of said generator and a component in said spectrum and including a voltage-responsive frequency control device operatively coupled to said generator, a mixer coupled to said source and said generator to combine the component spectrum with said wave, means coupled to the output of said mixer to obtain a control voltage proportional to the deviation in the frequency relation between the operating frequency of said generator and said component from said predetermined relation, and means to apply said control voltage to said control device to maintain said predetermined relation, said system having a maximum regulating range corresponding approximately to half the frequency spacing of successive spectrum components.

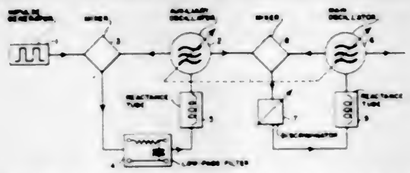


2,662,181

AUTOMATIC-FREQUENCY CONTROL APPARATUS FOR MAINTAINING A PREDETERMINED-FREQUENCY DIFFERENCE BETWEEN TWO WAVES

Eduard Herman Hugenholtz, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application August 13, 1948, Serial No. 43,984
Claims priority, application Netherlands
September 26, 1947
11 Claims. (Cl. 250—36)



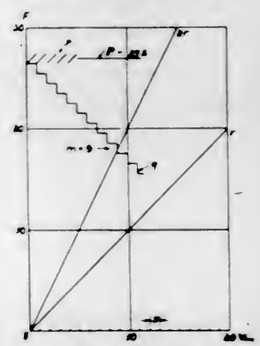
1. Apparatus for maintaining a predetermined frequency difference between the frequency of a main oscillator and that of a component in the frequency spectrum yielded by a source of non-sinusoidal reference oscillations, said apparatus comprising a sine-wave generator, a first automatic-frequency-control system effecting synchronism between the frequency of said sine-wave and the frequency of said component and including a voltage-responsive frequency control device operatively coupled to said generator, means coupled to said source and said generator for producing a control voltage depending on the frequency displacement between said sine-wave and the most proximate component in said spectrum and means to apply said control voltage to said device to effect the desired synchronism, and a second automatic-frequency-control system including means coupled to said main oscillator and said generator and responsive to the deviation in the frequency difference therebetween from the predetermined difference for maintaining a frequency difference between the frequency of said main oscillator and the frequency of said sine-wave generator corresponding to said predetermined frequency difference.

2,662,182

GENERATION OF ELECTRIC OSCILLATION

Herman Bernard Rudolf Boosman, London, England, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application February 21, 1950, Serial No. 145,367
Claims priority, application Great Britain
April 28, 1949
4 Claims. (Cl. 250—36)



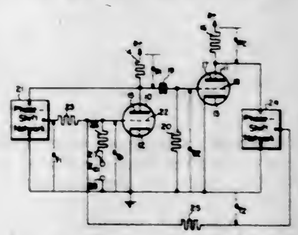
1. The method of combining a first frequency component with a second frequency component to produce a resultant beat frequency whereby a portion of the harmonic spectrum of said beat frequency, which portion has a predetermined highest harmonic order, may be prevented from beating with said frequency components, said method comprising the steps of generating a first frequency component whose frequency may be varied continuously within a predetermined range, one of the frequencies falling within said range having a value equal to the product of an integral multiple of the frequency width of said range times the factorial of the smallest integer which is larger than said highest harmonic order, generating a second frequency component whose frequency is variable in steps spaced in frequency to an extent corresponding to the frequency width of said range, and combining said first and second frequency components to produce said resultant beat frequency.

2,662,183

PHASE SHIFT OSCILLATING SYSTEM

Jack E. Bridges, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

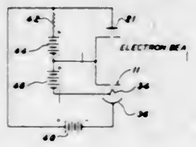
Application April 6, 1950, Serial No. 154,375
15 Claims. (Cl. 250—36)



1. A phase-shift oscillating system comprising: an electron-discharge device having input elec-

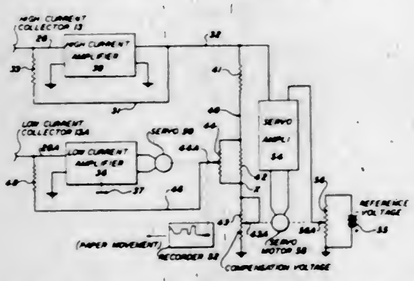
trodes and output electrodes; an output circuit coupled to said output electrodes; a first phase-shifting network coupled from said output circuit to said input electrodes to apply therebetween a first feedback voltage; and a second phase-shifting network, including a self-biased grid-controlled limiter tube, coupled from said output circuit to said input electrodes to apply therebetween a second feedback voltage of a phase differing from that of said first feedback voltage to cause said system to oscillate at a frequency determined by the phase of the vector resultant of said first and second feedback voltages.

2,662,184
MASS SPECTROMETRY
Clifford E. Berry, Altadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California
Application May 25, 1951, Serial No. 228,219
12 Claims. (Cl. 250—41.9)



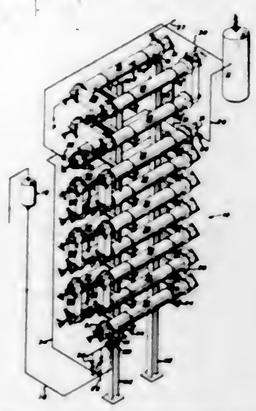
1. In an ion source comprising an ionization chamber, the combination comprising an electron emitting filament, a target electrode for collecting electrons, a shield electrode mounted adjacent the filament on the side thereof opposite the target electrode, means for directing the electrons through a portion of the ionization chamber to the target electrode, means for impressing a negative voltage on the shield electrode, and means for varying the magnitude of the negative voltage as a function of the current developed by electron discharge at the target electrode.

2,662,185
MASS SPECTROMETRY
Leland P. Robinson and Harold W. Washburn, Pasadena, and Walter J. Hirschberg, La Crescenta, Calif., assignors to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California
Application June 28, 1951, Serial No. 234,088
9 Claims. (Cl. 250—41.9)



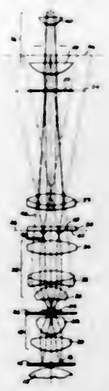
1. In an isotope ratio mass spectrometer having dual ion collectors and electrical means for determining the ratio of the discharge currents developed at the collectors, the combination comprising means operable responsive to variation in the discharge current at one of said collectors to vary the indicated ratio in proportion to said variation.

2,662,186
TWO-STAGE PHOTOCHEMICAL REACTOR
Luke J. Governale, Albert B. Horn, Jr., and Harry E. O'Connell, Baton Rouge, La., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware
Application January 23, 1952, Serial No. 267,812
7 Claims. (Cl. 250—47)



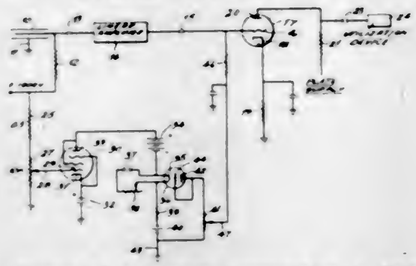
1. An apparatus for conducting an exothermic photochemical reaction comprising a light unit, a translucent tube surrounding said light unit, a heat conductive pipe surrounding said translucent tube and forming therewith an annular reaction zone for carrying out said reaction and a rigid metal shell surrounding said heat conductive pipe and forming therewith an annular coolant chamber for removing the heat generated in said reaction.

2,662,187
OPTICAL SYSTEM
Arthur J. Kavanagh, Stamford, Conn., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application July 11, 1951, Serial No. 236,263
2 Claims. (Cl. 250—77)



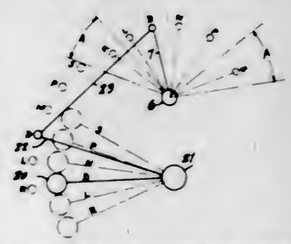
1. A centering telescope adapted to be inserted into the open upper end of the body tube of a phase contrast microscope equipped with optically aligned ultra-violet light transmitting condenser and objective means, with means forming an ultra-violet light source of predetermined dimensions and contour at the entrance pupil of said microscope and with phase altering means at the exit pupil thereof, and with said phase altering means having optically different zonal areas one of which is a conjugate zonal area of a size and contour substantially equal to the size and contour of the image of said ultra-violet light source formed at said exit pupil, said centering telescope comprising a first tubular part having positioning means thereon for locating said telescope in fixed aligned relation to said body tube, a second tubular part in telescoping relation to said first tubular part, ultra-violet light transmitting image forming means positioned in said first tubular part in fixed relation to said positioning means, a fluorescent screen positioned in said second tubular part in optical alignment with said image forming means, an eye lens carried by said second tubular part at the side of said screen remote from said image forming means, a reticule in said second tubular part adjacent said fluorescent screen and in optical alignment with said image forming means, said eye lens being focused upon said reticule, said second tubular part being axially adjustable relative to said first tubular part for locating said fluorescent screen and reticule substantially at the back focal plane of said image forming means when said last mentioned means is focused upon the conjugate area of said phase altering means, whereby visible images of said light source means and of said conjugate area will be produced upon said fluorescent screen when only ultra-violet light is being transmitted through the said condenser and objective means of said microscope and whereby either said conjugate area or said light source means may be readily adjusted into optical alignment with said reticule while the visible image thereof is being observed through said eye lens.

2,662,188
VOLTAGE STABILIZING AMPLIFIER SYSTEM FOR NEUTRON DETECTORS
Kenneth C. Crumrine, Tulsa, Okla., and Roy P. Mazzagatti, Houston, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 11, 1950, Serial No. 149,165
2 Claims. (Cl. 250—83.6)



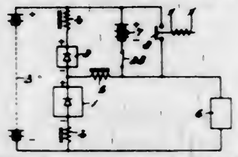
1. Electrical apparatus comprising a detector tube for converting radiation into electrical pulses; a pulse-amplitude-selective tube having at least a cathode, an anode, and a control electrode; means electrically connecting the output of the detector tube to said control electrode to apply said pulse thereto in positive polarity; a source of direct high voltage energizing potential for at least one of said tubes, said energizing potential being subject to unintended variations; means for applying a negative threshold bias between the control electrode and cathode of said selective tube; means responsive to variations in said energizing potential for correspondingly varying said threshold negative bias, said means including a control tube having a thermionic cathode, a heater circuit for applying direct current to heat said thermionic cathode, means coupled between said source of direct high voltage energizing potential and said heater circuit for varying the direct current heating of said thermionic cathode in accordance with said variations in said energizing potential, an anode in said control tube, anode circuit means for producing a bias voltage varying in accordance with the variations in energizing potential and cathode heating, and means for applying between said control electrode and cathode of the selective tube voltage changes produced in the anode circuit of the control tube.

2,662,189
ENGINE STARTER CONTROL
William E. Brown, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 20, 1951, Serial No. 216,588
7 Claims. (Cl. 307—10)



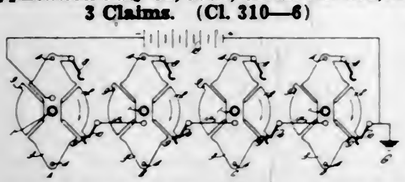
7. In an engine starter control system for an automotive vehicle having an electric starting motor operable when energized to start the engine and an automatic transmission controlled by a manually operable control lever movable to different positions within a control range to control the operation of said transmission and to positions outside said control range to effect operation of a control switch; a control switch operated by said control lever for controlling the operation of said starting motor and having two sets of fixed contacts and a movable contact engageable with either set of fixed contacts, a shaft for operating said movable contact and effective when moved in one direction to engage the movable contact with one pair of fixed contacts in order to cause the starting motor to become operative and effect starting of the engine, a lever for operating the shaft, said lever being operatively connected with the transmission control lever for operation thereby, a switch case surrounding the movable switch contact, a case cover supporting the fixed contacts, a switch mounting bracket attached to the case, a shaft bearing member supported by said bracket and in which the switch operating shaft is rotatably mounted, a relatively strong torsion spring surrounding said case, said spring having one end fixed to the bracket and the other end in position to be engaged by and oppose the movement of the switch operating lever when moved to a position to effect starting of the engine, a lighter torsion spring within the case and surrounding the shaft, one end of said spring being fixed and the other end operatively connected with the shaft so as to oppose movement of the switch operating lever to engage the second pair of fixed contacts, and a lug carried by the bracket and normally engaged by the movable end of the stronger spring when the switch operating lever is in its inoperative position.

2,662,190
ELECTRICAL RECTIFYING SYSTEM
Charles Louis van Weijnsbergen, Hilversum, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 23, 1951, Serial No. 217,227
Claims priority, application Netherlands April 5, 1950
4 Claims. (Cl. 307—66)



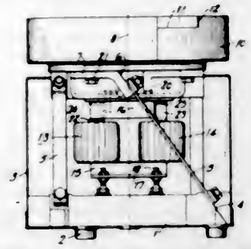
1. A system for converting an alternating-current supply to a direct-current to supply a load, said system comprising a main rectifier having an output voltage-current characteristic curve which under low and normal load current conditions varies only slightly in voltage and which under relatively heavy load current conditions declines in voltage, an auxiliary rectifier having an output voltage-current characteristic curve which even under low load current conditions declines in voltage, an emergency storage battery for supplying said load upon failure of said alternating-current supply, means connecting said main and auxiliary rectifiers in series across said battery to apply the combined voltages thereof to charge said battery, means to apply the output voltage of said main rectifier to said load, at least one counter cell connected across said auxiliary rectifier to limit the charge of said battery to a desired voltage, and a switch connected across said cell for short circuiting same.

2,662,191
ELECTROSTATIC MACHINE
Perry Okey, Columbus, Ohio
Application July 31, 1952, Serial No. 301,948
3 Claims. (Cl. 310—6)



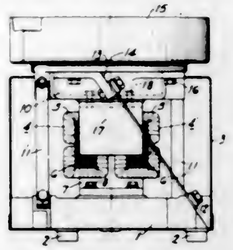
1. An electrostatic machine comprising a series of separately insulated capacitor units each including a pair of stator plates and a rotor plate mounted for rotation therebetween, said units being arranged in superimposed relationship and the rotor plate of each being relatively rotatable from a position of maximum registry with the stator plates of such unit to a position of minimum registery with such stator plates, a contact electrically connected to the stator plates of each unit and engageable with the rotor plate of such unit as the rotor plate reaches its position of maximum registry with the stator plates, a contact electrically connected to the stator plates of the succeeding unit of the series and engaged by the rotor plate of such succeeding unit when the rotor plate of the first unit is in a position of minimum registry with the stator plates of the first unit, the stator plates of the first unit of the series being connected at all times to a source of voltage and the rotor plate of the last unit being intermittently connected to ground when it moves into minimum registry with the stator plates of such last unit.

2,662,192
AXIAL ELECTROMAGNETIC MOTOR WITH OPPOSITELY FACING POLE FACES
Carl S. Weyandt, Homer City, Pa.
Application March 7, 1951, Serial No. 214,360
7 Claims. (Cl. 310—38)



1. A vibratory motor comprising a base, a frame constructed to be symmetrical about a central axis, a plurality of tuned spring means disposed at an incline and positioned symmetrically about said central axis with their opposite ends attached to said base and to said frame to support the latter for reciprocation in a confined inclined arcuate path of movement about said central axis, a single electromagnetic motor having an armature member and a field member, said armature member having a pair of spaced pole faces, said field member including a core with a pair of spaced pole faces to co-operate with the pair of pole faces on said armature, means for mounting said motor member axially and symmetrically relative to said central axis and in operative spaced relation with one motor member secured to said base and the other motor member secured to said frame, each pole face of a pair facing in opposite directions to one another to be effective in imparting their magnetic reciprocating impulses between the field core and the armature member at an angle to the central axis to reciprocate said frame in its confined inclined arcuate path of movement.

2,662,193
DOUBLE-ACTING CIRCULAR RECIPROCATING ELECTROMAGNETIC MOTOR
Carl S. Weyandt, Indiana, Pa.
Application April 25, 1951, Serial No. 222,840
8 Claims. (Cl. 310—38)



1. A vibratory motor comprising a base, a frame, a plurality of tuned spring means disposed at an incline and positioned symmetrically about a central axis with their opposite ends attached to said base and to said frame to support the latter for reciprocation in a confined inclined arcuate path of movement about said central axis, armature means attached to said frame, a plurality of field members each having coil means and a core with a co-operating pole face adjacent said armature means, means to mount said field members so that the pole face of one field member is effective to transmit magnetic inpulses in the opposite direction to the impulses horizontally transmitted by the pole face of another field member, and a circuit connection to each coil means including a half wave rectifier to alternately admit an energizing impulse to said one field member and then to said other field member to provide double-acting magnetic impulses through said pole faces to the armature means to reciprocate said frame in its confined inclined arcuate path of movement.

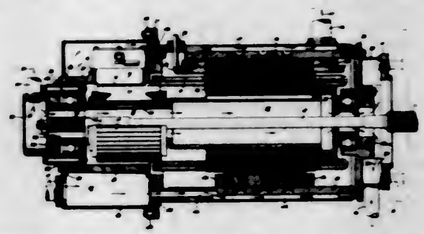
2,662,194
ELECTRIC MOTOR FOR SHAVERS AND THE LIKE
Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application October 31, 1947, Serial No. 783,419
6 Claims. (Cl. 310—50)



1. A motor unit having a hand grip casing of substantial length in relation to its width and thickness, an armature disposed lengthwise within said casing, a field structure within said casing surrounding the armature having a substantially rectangular cross section conforming with the width and thickness of the casing, insulation supporting blocks on opposite ends of said field structure and clamped directly thereto independently of said casing, an implement head having a substantially rectangular base section mounted on one of the supporting blocks at the outer end thereof, a current supply connector of substantially rectangular cross section at the end of the casing opposite from said implement head, the casing having an exterior configuration generated by tying the four corners of the implement head cross section at one end with the four corners of the field cross section at the center and with the four corners of the connector cross section at the opposite end to provide a flat hand grip casing.

2,662,195
DYNAMOELECTRIC MACHINE
Alec Fisher, Lynn, and James K. Newell, Swampscott, Mass., assignors to General Electric Company, a corporation of New York
Application May 27, 1952, Serial No. 290,224
4 Claims. (Cl. 310—59)

1. A liquid filled D.-C. aircraft generator having a gas filled air gap and a gas filled commutator and brush enclosure and comprising a stator frame, stator field poles having windings and secured in said frame, an armature having a winding and arranged to react with said field poles, a hollow quill shaft for supporting said armature, a commutator connected to said armature and supported by said quill shaft, first and second end shields affixed to said frame and supporting said quill shaft for rotation therein, said first end shield being configured and arranged around said commutator to act as a commutator shielding enclosure, a plurality of sealed brush holders held by said first end shield and having commutator brushes contacting said commutator within said enclosure, means for introducing a liquid rotor coolant within said hollow quill shaft and including an end cap secured to said first end shield and conduit means entering through said end cap, a spline portion for driving said quill shaft at one end thereof, said spline portion having axially extending holes therethrough for passing said liquid rotor coolant, a torque rod inner shaft for driving said splined portion and arranged within said quill shaft to provide a first chamber for said liquid coolant between said shafts in the vicinity of said commutator and a second chamber between said shafts in the vicinity of said armature, a

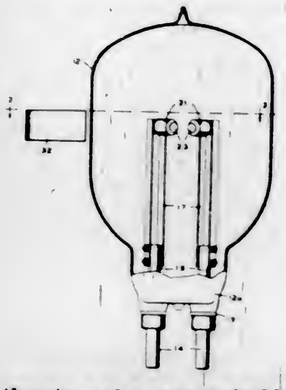


generator mounting flange spaced axially outward of said second end shield, an annular baffle connecting said flange and said end shield and defining therebetween an end compartment for said liquid rotor coolant, conduit means for discharging said liquid rotor coolant through said annular baffle, means for introducing a liquid stator coolant over said first end shield and sealed brush holders and including a removable cover secured to portions of said first end shield and spaced from said sealed brush holders to provide a first stator coolant chamber, conduit means entering through said removable cover to said first stator coolant chamber, axial passages through a portion of said frame and communicating with said first stator coolant chamber, an enclosing wrapping spaced from and surrounding a portion of said frame to form a second stator coolant chamber communicating with said axial passages, conduit means for discharging said liquid stator coolant through said enclosing wrapping, and sealing means including gaskets for preventing intermixture of the gas in said commutator enclosure and air gap with said liquid rotor coolant and with said liquid stator coolant.

2,662,196
CONCENTRATED ARC LAMP
William D. Buckingham, Southampton, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application November 4, 1948, Serial No. 58,291
4 Claims. (Cl. 313—161)

1. A concentrated arc discharge lamp of the character in which the light is emitted principally by highly incandescent surfaces of the electrodes and to a lesser extent by the cathode glow

portion of the discharge, and which is adapted to be energized by alternating current power supply, comprising a sealed light-transmissive envelope enclosing two electrode structures and an ionizable gas filling having a pressure of approximately one atmosphere at the operating temperature of the lamp, said electrode structures each being successively operative as an anode and a cathode during successive half cycles of said alternating current power supply, each of the electrode structures comprising a metallic body having a hole therein and a core embedded in said hole, said core extending substantially to the surface of the metallic body and having an exposed surface portion forming the active light-emitting surface area of the electrode, said core at the active surface portion thereof consisting essentially of a layer of a metal of the class consisting of zirconium and hafnium and bonded to said metallic body, said layer being supported by an underlying coalescent mass consisting essentially of an oxide of the metal of said layer.

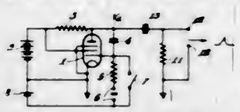


2,662,197

SAW TOOTH VOLTAGE GENERATOR

Corstiaan Le Comte, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application February 15, 1949, Serial No. 76,464
Claims priority, application Netherlands April 6, 1948
8 Claims. (Cl. 315—24)



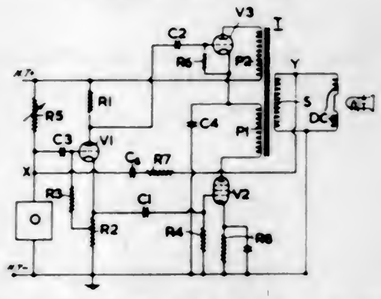
1. Apparatus for generating a sawtooth voltage having a predetermined frequency comprising an electron discharge tube having a cathode, a control grid and an anode, an anode resistance, a grid resistance, means to apply a constant positive voltage relative to said cathode to said anode through said anode resistance, means to apply a constant negative voltage relative to said cathode to said grid through said grid resistance, a negative feedback capacitance connected between said anode and said grid, a source of auxiliary voltage interposed between said grid resistance and said cathode, and means periodically to render said auxiliary source alternately operative and inoperative with respect to said grid at a rate corresponding to said predetermined frequency, said constant positive and negative voltages having respective magnitudes at which an appreciable anode current flows through said tube in the intervals in which said source is inoperative whereby an anode current varying linearly with time is produced in the intervals in which the source is operative.

2,662,198

SAW-TOOTH WAVE CIRCUITS

Alfred Benjamin Starks-Field, Chelmsford, England, assignor to Marconi's Wireless Telegraph Company Limited, London, England, a company of Great Britain

Application August 20, 1951, Serial No. 242,731
Claims priority, application Great Britain September 1, 1950
9 Claims. (Cl. 315—27)



1. In a saw tooth wave circuit for electromagnetic deflection of a cathode ray tube, a cathode ray tube having a deflection circuit, a source of timing oscillations, a phase splitting valve circuit including a valve having at least a cathode, a control grid and an anode with said control grid controlled by oscillations from said source, a driver valve including at least a cathode, a control grid and an anode, an anode circuit connected with said last mentioned anode, said anode circuit being connected to supply electro-magnetic deflection current to said deflection circuit for said cathode ray tube when said driver valve is conductive, said driver valve having the control grid thereof connected to one side of said phase splitting valve circuit, a damping valve connected to apply damping in the electro-magnetic deflection current circuit when said damping valve is conductive, said damping valve having at least a cathode, a control grid and an anode with the control grid thereof connected to the opposite side of said phase splitting valve circuit and a linearizing feed back path connected to apply negative feed back at the control grid of said phase splitting valve when neither said driver nor said damping valve is conductive.

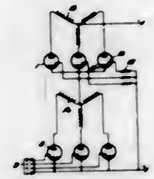
2,662,199

ALTERNATING CURRENT RECTIFYING INSTALLATION

Willem van Doorn, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application September 30, 1952, Serial No. 312,386
Claims priority, application Netherlands October 2, 1951
7 Claims. (Cl. 315—144)

6. A rectifying installation comprising a three-phase circuit including a pair of three-phase transformers each provided with three windings having a neutral terminal, a set of three electron discharge tubes in conjunction with each transformer, each tube including a cathode, an auxiliary electrode and an anode, the anode of each set being connected to a respective winding, the cathodes of the first set being connected to the neutral point of the second transformer, means including a direct voltage source to apply a positive potential relative to cathode to the auxiliary electrode of each tube in the second set to ignite same,



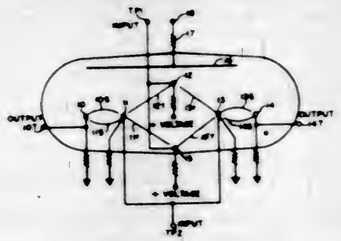
means to derive a direct output voltage between the neutral point of the first transformer and the cathodes of the second set, and means to couple the cathode of said second set to the auxiliary electrodes of the tubes in the first set to ignite same.

2,662,200

GLOW TRANSFER TRIGGER-SWITCH

Arthur L. Samuel, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application April 16, 1952, Serial No. 282,658
10 Claims. (Cl. 315—169)



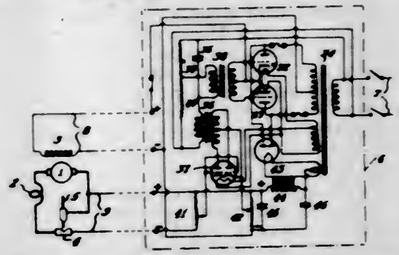
1. A gaseous discharge tube of the glow transfer type including a trigger section comprising first, second, third and fourth cathodes arranged in a closed glow transfer path to effect glow transfer therealong in only one direction; a fifth cathode arranged in glow transfer relation to said first cathode to form a first switch section so that a glow discharge is transferable from said first cathode to said fifth cathode and vice versa; a sixth cathode arranged in glow transfer relation to said third cathode to form a second switch section so that a glow discharge is transferable from said first cathode to said sixth cathode and vice versa; an anode common to each of said cathodes; a first common input connection to said second and fourth cathodes to effect glow transfer around said path in response to each two pulses applied to said connection; a second common input connection to said first and second switch sections to effect glow transfer from said one cathode thereof to the other cathode and back again in response to the application of each pulse applied over said second common connection, said glow transfer always being effected in one switch section as determined by the position of the glow discharge just prior to the application of the pulse; and an output connection from each switch section to convey an output therefrom.

2,662,201

CONTROL OF ARC OPERATION

Allen Dale Wiley, Middletown, Ohio, assignor to Armco Steel Corporation, Middletown, Ohio, a corporation of Ohio

Original application October 23, 1946, Serial No. 705,144. Divided and this application May 10, 1950, Serial No. 161,194
12 Claims. (Cl. 315—206)



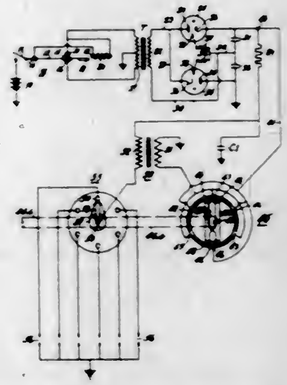
4. In apparatus for continuous arc welding by means of an expandable electrode fed at a constant speed toward the work to be welded, and a source of potential supplied to said electrode and workpiece through a transducer having input and output windings; an automatic arc voltage control mechanism including thyratrons in series with said input winding, a voltage measuring circuit across said arc, and a phase shifting circuit, responsive to said voltage measuring circuit, for controlling the phase relationship of the control grids with respect to the anodes of said thyratrons, such that the instant of firing of the thyratrons in each half cycle is postponed progressively with an increase in voltage across the arc, whereby the power input to the input winding of said transducer is varied to control the rate of burning of said electrode to maintain a substantially constant voltage across said arc.

2,662,202

IGNITION SYSTEM

Brooks H. Short, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application September 7, 1951, Serial No. 245,497
1 Claim. (Cl. 315—214)



Ignition apparatus for internal combustion engines comprising a high voltage D. C. source having an output terminal, an ignition coil having primary and secondary windings, spark

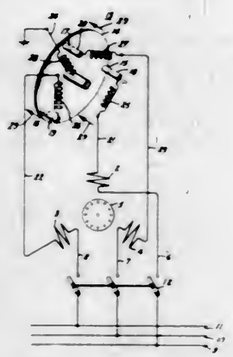
plugs, a distributor having posts connected respectively with the spark plugs and having an engine driven rotor, a center contact, a conductor carried by the rotor for distributing sparking impulses to the posts from the center contact, a sparking impulse circuit which includes a spark plug, a post, the conductor, the center contact, the secondary winding of the ignition coil, a resistor in series with the output terminal, a primary circuit connected in parallel with the output terminal, and circuit including a periodic circuit closer having fixed segments alternate ones of which are connected as a group with the output terminal and alternate ones as a group with the primary winding of the ignition coil and having an engine driven rotor, two circuit connectors carried thereby for bridging, in sequence, between one each of the two groups of segments, the first of the connectors to be effective including a resistance and the last connector to be effective after the first has become ineffective including a condenser, the circuit of the last connector to be effective including ground, the primary winding of the ignition coil, the said condenser, the output terminal, said first-mentioned resistance, an auxiliary condenser and ground, and a discharge circuit of the auxiliary condenser which includes ground, said auxiliary condenser, the secondary winding of the ignition coil, the distributor and a spark plug to ground.

2,662,203

THREE-PHASE ALTERNATING CURRENT APPARATUS WITH THERMAL PROTECTION

Richard E. Seely, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application March 15, 1952, Serial No. 276,825
8 Claims. (Cl. 317—13)



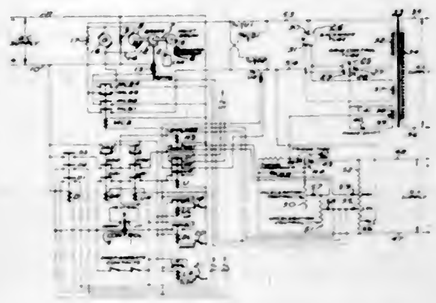
1. Thermally protected three phase alternating current apparatus comprising three winding sections respectively adapted to be connected to three lines of a three phase source of alternating current, a thermal switch having contacts arranged to connect said winding sections in a Y connection and to open said connection responsive to a predetermined temperature, said switch having a connection adapted to be connected to a ground, auxiliary heating elements respectively connected in series with said winding sections, and another auxiliary heating element connected in series with said ground connection, said heating elements being arranged to thermally affect said switch.

2,662,204

ELEVATOR CONTROL SYSTEM

Austin E. Fribance, Rochester, and Thomas F. Jarvis, Warsaw, N. Y., assignors to Watson Elevator Company, Inc., a corporation of New York

Application October 28, 1949, Serial No. 124,208
20 Claims. (Cl. 318—158)



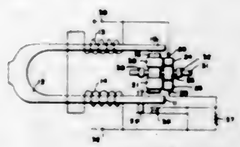
1. A variable speed elevator motive power system comprising a motor having its field winding supplied from a source of electrical energy and a generator connected to supply armature current to said motor, a field winding for said generator, an alternating potential supply, means including a grid-controlled rectifier for connecting said supply to said generator field winding, an insulating control tube having at least a cathode and a control grid and an anode, an input timing circuit comprising a capacitance and a resistance connected to said control grid, and connections for applying an output voltage furnished by said control tube to the grid of said grid-controlled rectifier.

2,662,205

CONSTANT SPEED DIRECT CURRENT MOTOR

Robert M. Virkus, Riverside, and Myron L. Anthony, La Grange, Ill.

Application January 20, 1951, Serial No. 206,984
26 Claims. (Cl. 318—330)



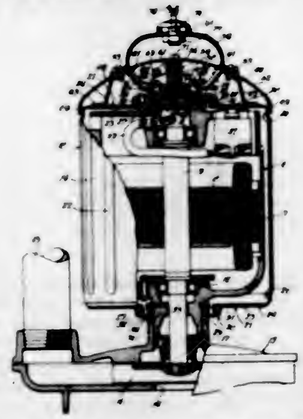
1. A constant speed D. C. motor comprising, a field structure having a magnetic circuit including opposed poles and windings for the magnetic circuit energizable from a D. C. voltage source, a rotatable armature having opposed poles and windings for the poles energizable from a D. C. voltage source, said armature poles being magnetically associated with and affected by the field poles, a commutator for the armature windings to cause the armature poles magnetically to cooperate with the field poles for rotating the armature, and a cyclically operating mechanism mechanically associated with the magnetic circuit of the field structure for cyclically varying at a fixed frequency the magnetic force between the field poles and the armature poles to cause the armature to rotate in synchronism with said cylically operating mechanism.

2,662,206

SUBMERSIBLE SUMP PUMP

Edward J. Schaefer, Fort Wayne, Ind.

Application July 26, 1952, Serial No. 301,144
21 Claims. (Cl. 318—482)



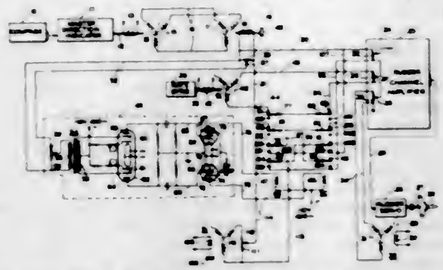
1. In a motor driven sump pump, an electric motor, a hollow float chamber surrounding said motor to render the same submersible, said float chamber being supported on said motor for limited movement relative thereto, and a control switch for said motor within said float chamber, said control switch being adapted to be actuated upon movement of said float chamber in response to changes in liquid level outside said float chamber.

2,662,207

AUTOMATIC STEERING SYSTEM WITH DISPLACEMENT LIMITING MEANS

James F. Hollister, Bergenfield, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application January 7, 1949, Serial No. 69,742
20 Claims. (Cl. 318—489)



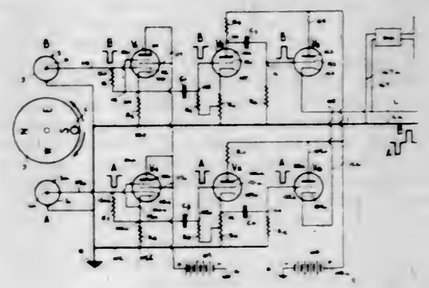
1. An automatic steering system for a mobile craft having a displaceable control surface thereon, said system comprising a servo motor adapted for connection to said surface for the operation thereof, position maintaining means for generating a signal when said craft departs from a predetermined position and normally connected to said motor for energizing the latter, and surface displacement limiting means connected to said position maintaining means and responsive to a predetermined value of said signal for disconnecting said position maintaining means from said motor, said surface displacement limiting means being normally disconnected from said motor but adapted for connection thereto in response to the predetermined value of said signal for assuming primary control of said motor.

2,662,208

RADIOACTIVE DETECTOR MEANS IN AUTOMATIC STEERING SYSTEMS

Winston Wells, New York, N. Y., assignor to Canadian Radium & Uranium Corporation, New York, N. Y., a corporation of New York

Application December 21, 1949, Serial No. 134,265
10 Claims. (Cl. 318—489)



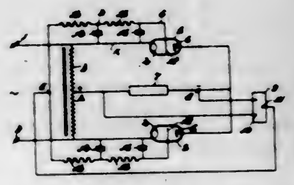
1. Control apparatus for actuating a movable member, comprising respective electro-mechanical operating devices respectively coupled to said movable member and operable to move said movable member in respective opposed directions, two counter tubes, said counter tubes being located simultaneously in the path of the ionizing rays which are emitted by a source of ionizing energy, each said counter tube having a respective pair of spaced electrodes and a respective ionizable atmosphere, each said counter tube having a respective source of potential which is applied to the respective pair of electrodes and which is less than the potential which is required to start an ionization current through the respective atmosphere, said ionizing rays being effective to start ionization discharges through said ionizable atmospheres, each said counter tube being connected to a respective electro-mechanical operating device through a respective intermediate circuit, and means for controlling the delivery of said ionizing rays to the respective counter tubes.

2,662,209

ELECTRIC CIRCUIT

Alfred van de Wiel, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 23, 1949, Serial No. 129,007
Claims priority, application Netherlands December 23, 1948
7 Claims. (Cl. 321—18)



1. A polyphase rectifier circuit for converting alternating voltages to a direct output voltage and supplying said output voltage to a variable impedance load, said circuit comprising an autotransformer adapted for polyphase operation and having a neutral voltage point, a plurality of gaseous electron discharge tubes, each tube having a cathode, a control grid and an anode, said plurality corresponding to the number of voltage

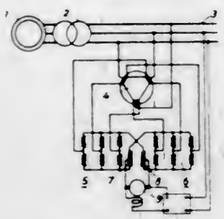
phases used, means to supply said alternating voltages through said autotransformer to the respective cathodes of said tubes, the magnitude of said voltages between said cathodes and said neutral point being substantially equal, the anodes of said tubes being connected through said load to said neutral point, means coupled to said autotransformer for supplying alternating compensating voltages to the respective control grids of said tubes, said alternating compensating voltages having values and acting in directions at which the effects of said alternating voltages on said neutral point are neutralized, whereby said neutral point is rendered insensitive to voltage fluctuations, a control device coupled to said neutral point and responsive to the voltage produced across said load for deriving therefrom a direct control voltage, means to superimpose said control voltage on said alternating compensating voltages supplied to the respective control grids of said tubes to govern the firing period of said tubes in a direction at which said direct output voltage is maintained at a constant value despite variations in said load impedance.

2,662,210

PHASE COMPENSATING MEANS FOR ALTERNATING CURRENT LINES

Harry Forssell, Ludvika, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation

Application August 9, 1949, Serial No. 109,291
Claims priority, application Sweden August 9, 1948
5 Claims. (Cl. 323—107)



1. Means for compensating capacitative power of an alternating current line comprising a direct current saturable reactor connected in parallel to said line, a direct current circuit connected to said reactor to saturate the same, means responsive to the voltage of the alternating current line to furnish current to said direct current circuit, said direct current circuit having a total reactance which is less than one third of that corresponding to the alternating current reactive power absorbed by said reactor at full load divided by the square of the corresponding saturating direct current, said direct current circuit having means therein to keep the lowest frequency of the substantial pulsations induced in said direct current circuit higher than that of the pulsations induced by any independent reactor forming part of said saturable reactor.

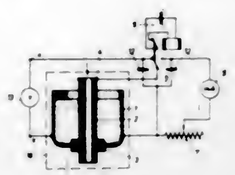
2,662,211

DEVICE FOR MEASURING THE DISCHARGE VOLTAGE OF GALVANIC CELLS

Adolf Marko and Karl Kordesch, Vienna, Austria

Application June 8, 1951, Serial No. 230,512
Claims priority, application Austria June 21, 1950
10 Claims. (Cl. 324—29)

1. A device for measuring the discharge voltage of a galvanic cell comprising in combination: a loading circuit including an adjustable loading resistance, a measuring circuit of a high resistance preventing loading of the galvanic cell by the said measuring circuit and including a voltage measuring instrument, and a periodically operating throw-over switch connecting the said cell alternately to the said loading circuit and to the said measuring circuit at a high rate, whereby owing to the sluggishness of the depolarising reactions in the cell the depolarising conditions in the cell remain substantially constant during the short periods of connecting the said cell to the said measuring circuit.

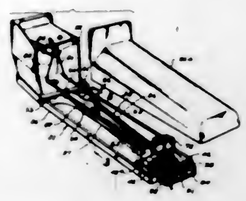


2,662,212

TELEMETERING MECHANISM FOR CHART RECORDERS

Douglas Clegg and Leif E. Jenssen, Calistoga, Calif.; said Jenssen assignor to said Clegg

Application May 14, 1951, Serial No. 226,154
4 Claims. (Cl. 324—106)



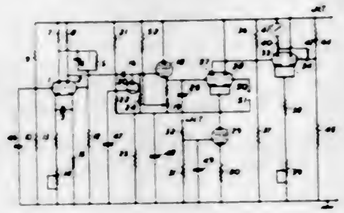
2. An electric current comparison instrument comprising in combination: a frame; a rotary member journaled in said frame; a radially extending indicator carried by said member; a pair of struts each fulcrumed adjacent one end in said frame for swinging movement about a transverse axis; a pair of stretched, electro-conductive, thermal-expansive ligaments each having an end insulated from said frame and anchored therein at a point spaced from said fulcrum axis of one of said struts, the other ends of said ligaments being respectively attached to said struts at points spaced from said fulcrum axes, said ligaments each being disposed at an angle of less than 90° to its connected strut to exert an axial force on the latter, and said ligaments being adapted for connection to separate current sources; and a pair of links, each connected between the unfulcrumed end of one of said struts and an eccentric point on said rotary member, said links extending in opposite tangential directions from said rotary member, whereby moments produced by differential expansile or contractile forces in said ligaments produce swinging movement of said indicator, while the forces produced by simultaneous and equal expansion or contraction of said ligaments balance each other and produce no motion of said indicator.

2,662,213

MEANS FOR INDICATING THE LOGARITHMIC VALUE OF A MAGNITUDE

Philip Barnet Vanderlyn, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, England, a British company

Application January 19, 1951, Serial No. 206,792
Claims priority, application Great Britain January 25, 1950
3 Claims. (Cl. 324—120)



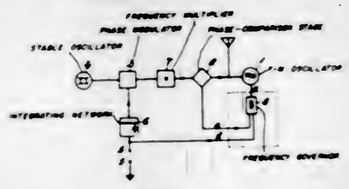
2. Means for indicating the logarithmic value of a magnitude, comprising means for generating a periodic exponentially varying voltage, a pair of electric discharge tubes each having a control electrode, a common cathode circuit for said tubes, means for applying said periodic voltage to the control electrode of one of said tubes, means for applying a voltage proportional to said magnitude to the control electrode of said other tube, means to maintain one of said tubes conducting and the other nonconducting, means for changing the conducting conditions of said tubes when said voltages applied to said tubes are equal, means for deriving an output voltage from one of said tubes, and means for producing from said output voltage, pulses of duration determined by the change in the conducting conditions of said tubes, indicating means, and means for feeding said pulses to said indicating means to indicate the duration of said pulses.

2,662,214

FREQUENCY-MODULATED OSCILLATOR

Eduard Herman Hugenholtz, Hilversum, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 30, 1951, Serial No. 239,232
3 Claims. (Cl. 332—19)



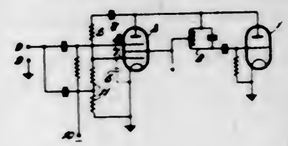
1. A circuit for frequency-modulating an oscillator with a modulating voltage and for synchronizing said oscillator comprising a frequency governing device coupled to said oscillator for varying the frequency thereof, a source of stable oscillations, means including a phase modulator coupled to said source to produce a synchronization wave phase-modulated by said modulating voltage, a phase comparison device responsive to said synchronization wave and coupled to said oscillator to produce a control voltage, means to apply said control voltage to said governing device to vary the frequency of said oscillator accordingly, and means to apply said modulating voltage to said governing device also to frequency-modulate said oscillator, whereby a reduction in the amplitude requirements for said control voltage is effected.

2,662,215

CIRCUIT FOR FREQUENCY MODULATION OF A LOCAL-OSCILLATOR OSCILLATION

Johannes Marinus van Hofweegen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application September 5, 1951, Serial No. 245,115
3 Claims. (Cl. 332—28)



1. In apparatus for frequency modulating the oscillations produced by a local oscillator provided with a frequency determining tuned circuit in accordance with an applied signal, a frequency modulator having a substantially linear modulation characteristic, said modulator comprising an electron discharge device having a cathode, first and second control grids and an anode, said cathode and said anode being coupled to the tuned circuit of said local oscillator, means to supply oscillations from said local oscillator and said applied signal to said first and second grids respectively to effect frequency modulation of said oscillator, and means to compensate for non-linearities in said frequency modulation including further means to supply said applied signal to said first grid.

2,662,216

ELECTRIC FILTER NETWORK

Jacob Fredrik Klinkhamer, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application May 16, 1950, Serial No. 162,296
Claims priority, application Netherlands June 1, 1949
5 Claims. (Cl. 333—70)



1. A ladder network having a transmission characteristic function whose poles and zeros correspond to a characteristic curve which is substantially rectilinear for frequencies falling within a selected frequency band and which abruptly drops toward zero for frequencies falling outside of said band, said network comprising a plurality of sections each of which is provided with reactance elements and inherent loss resistances, said reactances and resistances having values at which the frequencies determined by the poles of the characteristic function of said ladder network are equal to the frequencies determined by the poles of an idealized network having a like plurality of sections provided with loss-free reactance elements and having a transmission characteristic curve substantially equal to that of said ladder network, said resistances having values at which the frequencies determined by the zeros of the characteristic curve of said ladder

network differ by a constant imaginary amount from the frequencies determined by the zeros of said idealized network, one section of the non-ideal ladder network having a zero which determines that frequency which falls outside of and is most adjacent to said band including reactance elements preventing transmission of said outside frequency.

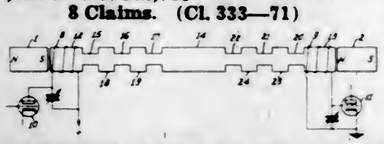
2,662,217

MULTIPLE-NECK FILTER

Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Original application March 30, 1949, Serial No. 84,372. Divided and this application July 8, 1950, Serial No. 172,746

8 Claims. (Cl. 333—71)



7. A mechanical filter providing a band-pass characteristic, comprising a pair of spaced resonant elements tuned to a frequency within said pass band, and coupling means therebetween, said coupling means comprising, in the order named, a neck element of lesser dimension than the resonant elements, a slug element of larger dimension than said neck element, and a second neck element to constitute at least one low pass mechanical filter section which operates in an attenuation band at the frequency of operation of said filter.

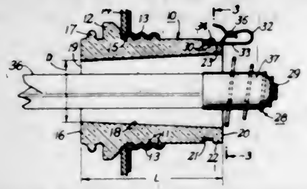
2,662,218

ELECTRODE HOUSING FOR ELONGATED TUBULAR LAMPS AND TERMINAL CONTACT THEREFOR

Samuel C. Miller, New York, N. Y.; Rosalie E. Miller, executrix of said Samuel C. Miller, deceased

Application August 28, 1951, Serial No. 243,959

3 Claims. (Cl. 339—50)



1. In a high voltage electrode housing for supporting an electrode tube on a frame, having a substantially cylindrically contoured exterior body portion having an opening extending from end to end, a mouth at one end thereof through which the electrode tube may pass, a rim at the other end thereof, an integral flange on said exterior portion between said ends adjacent said mouth, means on said exterior portion for mounting the housing to the frame, the opening on the interior of said housing being outlined by walls continuously and gradually flaring toward the rim end forming a drainage passage extending to the rim end, said rim end having indentations exteriorly positioned comprising seat portions arranged for supporting terminal contact means against displacement transversely of said housing adjacent said rim end, the combination therewith of a terminal contact comprising a convoluted conductor having a portion mounted across the rim end and a portion including an anchoring convolution engaging said seat portions and terminal conductor clip means on said housing supported by said anchoring convolution, the terminal contact upon positioning of the electrode tube, leaving a substantially clear passage for drainage.

2,662,219

ELECTRICAL CONNECTOR HAVING A GROMMET AND MEANS TO AXIALLY AND RADIALLY COMPRESS THE SAME

Walter F. Hennessey, Jr., and George J. Swanson, Sidney, N. Y., assignors to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware

Application March 7, 1950, Serial No. 148,234

10 Claims. (Cl. 339—103)



1. In electrical apparatus of the class described, a rigid shell, a contact carrying insert supported in said shell, at least one contact member supported in said insert, an electrical conductor connected to said contact member, a resilient grommet closely surrounding said conductor and having end-to-end engagement with said insert, a sleeve closely surrounding said grommet, said sleeve comprising a ring portion engaging an external shoulder on said grommet and a plurality of flexible, angularly-spaced fingers projecting from the ring portion away from the shell, an adapter ring having a cone-like internal surface engaging said fingers, and a nut threadedly engaged with the shell and operatively engaging said adapter ring, whereby, when the nut is screwed onto said shell, said adapter ring and sleeve may be moved axially thereby toward said shell to thus axially and radially compress said grommet until the flange on the ring portion of the sleeve is clamped between said shell and adapter ring.

2,662,220

CLAMPING DEVICE FOR ELECTRONIC DISCHARGE DEVICES

Oliver E. Saari, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application May 6, 1950, Serial No. 160,519

2 Claims. (Cl. 339—112)

1. A clamping device for an electronic discharge tube comprising in combination; a base

member having a socket adapted to support the tube; at least two tube engaging members having good thermal conductivity, said tube engaging members each being of a height substantially as great as that of the tube and formed so as to substantially enclose said tube and embrace said tube in heat conductive engagement over a large portion of the area of said tube, and each member having a relatively large flange in engagement with said base member; pivotal mounting means for each of said tube engaging members comprising a pivot pin extending through aligned open-



ings in said flange and said base member, at least one of said openings associated with each of said mounting means being elongated to enable movement of said members transversely apart from engagement with the electronic discharge tube to permit grasping the tube for withdrawal from the socket of the base member; yieldable means associated with each of said pivot pins for maintaining said flange in thermal conductive engagement with said base member; and latch means for locking said tube clamping members firmly about said electronic discharge tube.

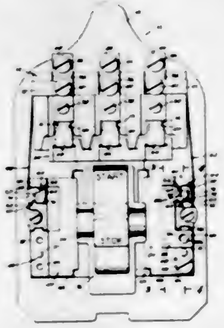
2,662,221

TERMINAL CONSTRUCTION FOR ELECTRICAL APPARATUS

Richard P. Ballou, Hartford, Conn., assignor to Federal Electric Products Company, Newark, N. J., a corporation

Application August 30, 1949, Serial No. 113,157

7 Claims. (Cl. 339—219)



1. A connection terminal for an electric device comprising a part formed of insulation material and provided with a recess defined in a surface thereof, said recess having a bottom wall and opposing walls extending upwardly therefrom to said surface, insert means extending from said bottom wall in a direction away from said surface, a headed terminal securing member adapted for releasable engagement in said insert, and a wall portion projecting from one of said opposing walls toward the other of said walls, the head of said terminal member being dimensioned relative to said recess and said wall projection to prevent the head of said terminal member from entering said recess at said surface, whereby to prevent the tightening of said securing member in said insert.

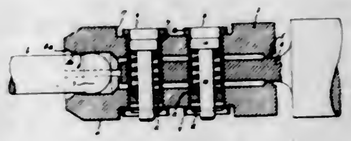
2,662,222

SEPARABLE PLUG AND SOCKET CONNECTOR

Salvatore Minneci and Emil J. De Noyers, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

Application October 31, 1952, Serial No. 318,036

4 Claims. (Cl. 339—255)



1. In an electrical plug and socket connector of the bayonet type, a socket structure comprising: a rigid conductor having oppositely disposed outer sides; two outer contact segments pivotally mounted on said outer sides, said contact segments being formed with recessed end portions which together form a hollow adapted to receive a contact plug therein; a buried spring assembly connected between said outer contact segments and adapted to force said segments into clamping engagement about a contact plug, said buried spring assembly comprising a flanged cylinder fitted within oppositely disposed registering openings formed in said conductor and said contact segments, the flange on said cylinder being positioned against an outer surface of one of said contact segments, a headed plunger mounted within said cylinder and having an end abutment positioned against an outer surface of the other of said contact segments, and a compression spring mounted between said plunger head and a portion of said flanged cylinder, said spring acting to force said contact segments together so that a contact plug may be clamped in place within said hollow.

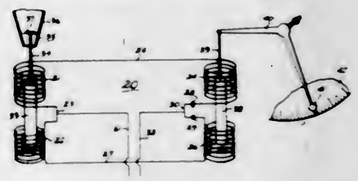
2,662,223

TELEMETERING IMPEDANCE BRIDGE

Nathaniel Brewer, Newtown, Pa., assignor to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania

Application July 22, 1949, Serial No. 106,171

10 Claims. (Cl. 340—199)

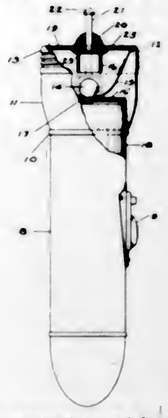


1. An impedance-bridge including a plurality of transmitter-coils, each with associated transmitter-armature, each transmitter-coil and associated transmitter-armature movable relative to one another, a plurality of receiver-coils and associated receiver-armature, each receiver-coil and associated receiver-armature movable relative to each other, one current-carrying wire connected to one end of each transmitter-coil, another current-carrying wire connected to one end of each of the receiver-coils, one end of each receiver-coil connected to one end of a transmitter-

coil, a separate condenser in series with one end of each receiver-coil, the total inductive-reactance of each circuit including a series-connected transmitter and receiver coil being greater than the total capacitive-reactance of the same circuit when the receiver-armature is disposed at its null or balance position within the receiver-coil.

2,662,224
MULTICOLORED ELECTRIC FLASHLIGHT
Howard B. Mitchell, Larkspur, Calif.
Application August 18, 1950, Serial No. 180,154
1 Claim. (Cl. 340—321)

In a flashlight, the combination, with a lamp, a casing and a reflector, of an apertured lens mounted in the upper end of the casing, said lens being made of clear plastic material, a red colored cap having a closed upper surface and an open bottom and transparent sides and being mounted beneath said lens, means for manually actuating said cap to cover and uncover the lamp to alternately cause red and white light beams to be projected through said lens, said means comprising a rod moveable through the apertured lens, and guide means for said rod comprising a transparent apertured bead mounted on the upper surface of said lens, the aperture of said



bead adapted to coincide with the aperture of said lens.

DESIGNS

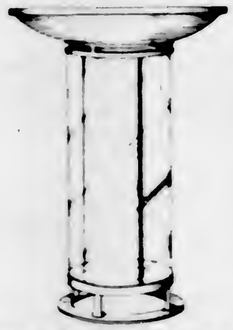
DECEMBER 8, 1953

171,019
HANDBAG
Sheldon J. Aberman, Miami Beach, Fla.
Application August 12, 1953, Serial No. 26,419
Term of patent 3½ years
(Cl. D87—3)



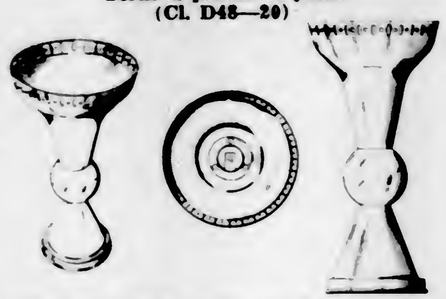
The ornamental design for a handbag, substantially as shown.

171,020
COMBINED BIRDBATH AND SOLARIUM FOR GROWING PLANTS
Alvin S. Anderson, Chicago, Ill.
Application October 13, 1952, Serial No. 21,821
Term of patent 14 years
(Cl. D91—4)



The ornamental design for a combined bird bath and solarium for growing plants, as shown.

171,021
TABLE LAMP
Anna Arch, New York, N. Y.
Application June 16, 1953, Serial No. 25,512
Term of patent 14 years
(Cl. D48—20)

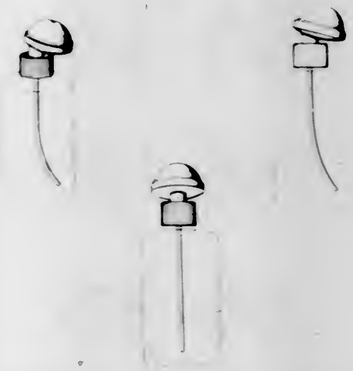


The ornamental design for a table lamp, as shown.

171,022
EXHAUST PIPE JETTISON
Norman D. Armstrong, Burbank, and Clifford L. Anderson, Los Angeles, Calif.
Application February 12, 1953, Serial No. 23,578
Term of patent 3½ years
(Cl. D14—6)

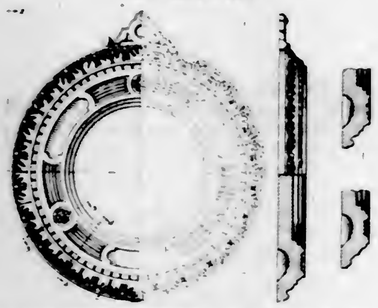
The ornamental design for an exhaust pipe jettison, substantially as shown.

171,023
ATOMIZER OR SIMILAR ARTICLE
"D" Flavius Bacheller, Glendale, Calif.
Application December 9, 1952, Serial No. 22,609
Term of patent 7 years
(Cl. D83—1)



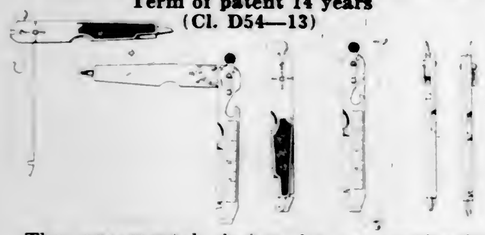
The ornamental design for an atomizer or similar article, substantially as shown and described.

171,024
PLAQUE
Camiel A. Blondeel, Chicago, Ill.
Application April 29, 1953, Serial No. 24,760
Term of patent 7 years
(Cl. D29—23)



The ornamental design for a plaque, substantially as shown and described.

171,025
COMBINATION POCKET TOOL
Ion Bochory, New York, N. Y.
Application February 29, 1952, Serial No. 18,734
Term of patent 14 years
(Cl. D54—13)



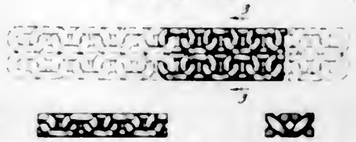
The ornamental design for a combination pocket tool, as shown.

171,026
WOVEN TEXTILE FABRIC
Sergei Bogdanovich, Carmel, N. Y., assignor to Weil & Durrsè, Inc., New York, N. Y., a corporation of New York
Application October 11, 1952, Serial No. 21,811
Term of patent 7 years
(Cl. D92—1)



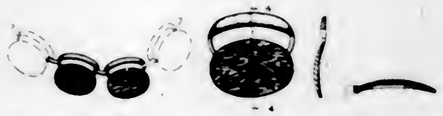
The ornamental design for a woven textile fabric, as shown and described.

171,027
LINK CHAIN
Michael Chernow, New York, N. Y.
Application October 29, 1952, Serial No. 22,039
Term of patent 7 years
(Cl. D45—16)



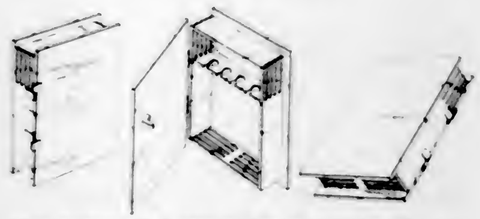
The ornamental design for a link chain, substantially as shown and described.

171,028
LINK CHAIN FOR A NECKLACE OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application June 5, 1953, Serial No. 25,352
Term of patent 14 years
(Cl. D45—16)



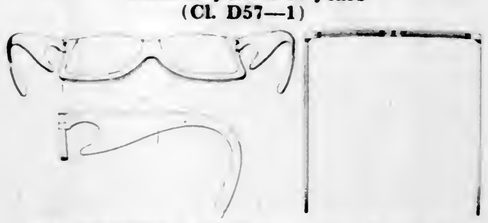
The ornamental design for a link chain for a necklace or similar article, substantially as shown and described.

171,029
TOOTHBRUSH CABINET
Garlin J. Coleman, New York, N. Y.
Application March 8, 1952, Serial No. 18,832
Term of patent 7 years
(Cl. D4—3)



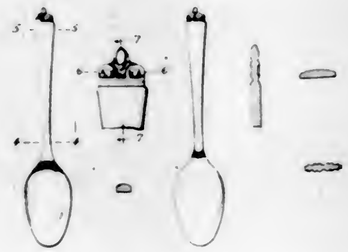
The ornamental design for a toothbrush cabinet, as shown.

171,030
PAIR OF SPECTACLES
Gerald Courtney, Hollywood, Calif.
Application August 27, 1953, Serial No. 26,608
Term of patent 14 years
(Cl. D57—1)



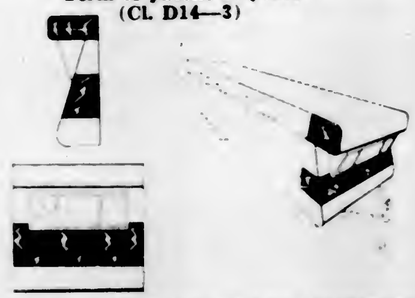
The ornamental design for a pair of spectacles, as shown.

171,031
SPOON OR SIMILAR ARTICLE
Mary Parker Fleming, Newark, N. J., assignor to Oneida Ltd., Oneida, N. Y., a corporation of New York
Application October 24, 1952, Serial No. 21,978
Term of patent 14 years
(Cl. D54—12)



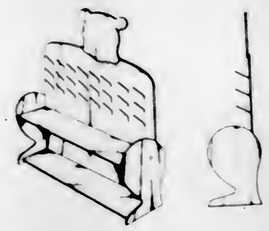
The ornamental design for a spoon or similar article, substantially as shown and described.

171,032
HOUSE TRAILER
Roy Goettsche, Saginaw, Mich.
Application February 16, 1953, Serial No. 23,644
Term of patent 14 years
(Cl. D14—3)



The ornamental design for a house trailer, substantially as shown and described.

171,033
DISPLAY RACK OR THE LIKE
Lawrence Wright Gordon, Stockton, Calif.
Application March 1, 1952, Serial No. 18,750
Term of patent 14 years
(Cl. D80—9)



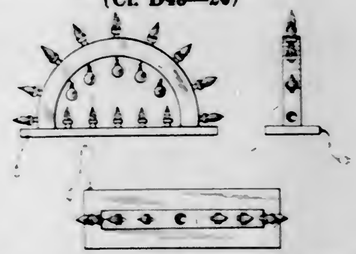
The ornamental design for a display rack or the like, substantially as shown.

171,034
SURGICAL LIGHTING FIXTURE
Ernest H. Greppin, Brighton, N. Y., assignor to Wilmot Castle Company, Rochester, N. Y., a corporation of New York
Application August 19, 1952, Serial No. 21,110
Term of patent 14 years
(Cl. D48—20)



The ornamental design for a surgical lighting fixture, substantially as shown.

171,035
ILLUMINABLE DECORATIVE DEVICE
Leonard B. Johnson, Smethport, Pa.
Application March 13, 1953, Serial No. 24,020
Term of patent 14 years
(Cl. D48—20)



The ornamental design for an illuminable decorative device as shown and described.

171,036
LINK CHAIN FOR A NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,401
Term of patent 7 years
(Cl. D45—16)



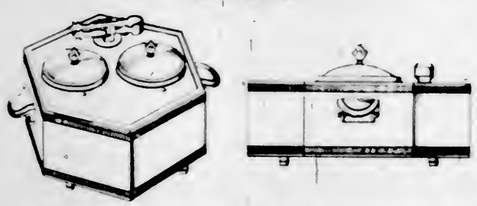
The ornamental design for a link chain for a necklace or the like, substantially as shown.

171,037
AQUARIUM
Harold V. Lee, College Point, N. Y.
Application February 24, 1953, Serial No. 23,755
Term of patent 3½ years
(Cl. D91—2)



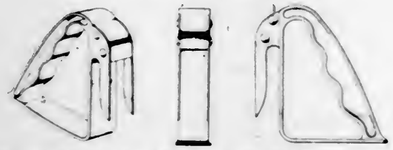
The ornamental design for an aquarium, substantially as shown and described.

171,038
COMBINED FOOD SERVER AND TONGS THEREFOR
Louis Levine, New York, N. Y.
Application September 6, 1952, Serial No. 21,364
Term of patent 14 years
(Cl. D44—1)



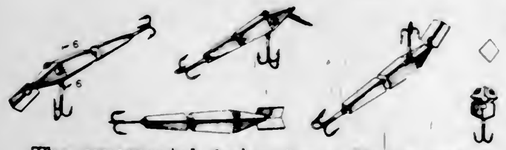
The ornamental design for a combined food server and tongs therefor, substantially as shown and described.

171,039
SLICING AID
Robert V. Loeb, Los Angeles, Calif.
Application June 8, 1953, Serial No. 25,361
Term of patent 3½ years
(Cl. D44—29)



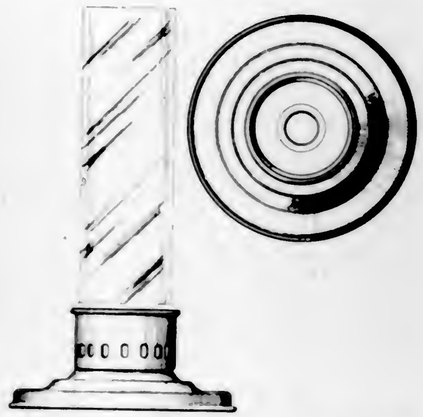
The ornamental design for a slicing aid, as shown.

171,040
FISHING LURE OR SIMILAR ARTICLE
Roy A. Lord, Evanston, Ill.
Application September 24, 1953, Serial No. 26,943
Term of patent 14 years
(Cl. D31—4)



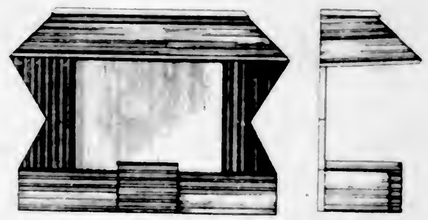
The ornamental design for a fishing lure or similar article, substantially as shown.

171,041
CANDLE LAMP
William F. Meara, Oak Park, Ill., assignor to Bloomfield Industries, Inc., Chicago, Ill., a corporation of Illinois
Application February 4, 1953, Serial No. 23,441
Term of patent 14 years
(Cl. D48—2)



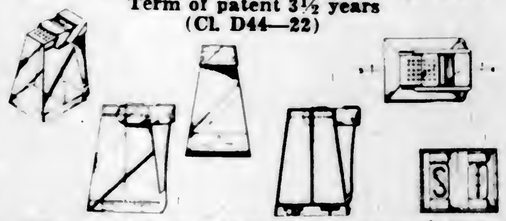
The ornamental design for a candle lamp, as shown and described.

171,042
PLANTER LAMP
Edward E. Mecus, Shorewood, Wis., assignor to Dexter-Mahnke Inc., Milwaukee, Wis., a corporation of Wisconsin
Application February 9, 1953, Serial No. 23,497
Term of patent 3½ years
(Cl. D48—20)



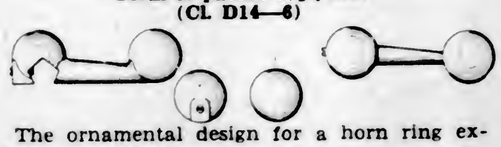
The ornamental design for a planter lamp, as shown.

171,043
COMBINED SALT AND PEPPER SHAKER
James P. Moore, Daly City, Calif.
Application February 18, 1953, Serial No. 23,673
Term of patent 3½ years
(Cl. D44—22)



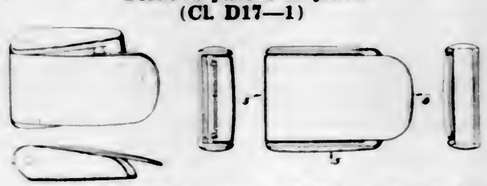
The ornamental design for a combined salt and pepper shaker, as shown.

171,044
HORN RING EXTENSION
Ralph J. Morgan, Youngstown, Ohio
Application January 13, 1953, Serial No. 23,119
Term of patent 3½ years
(Cl. D14—6)



The ornamental design for a horn ring extension, as shown.

171,045
SAFETY BELT BUCKLE
William M. Noe, South Pasadena, Calif.
Application February 18, 1952, Serial No. 18,565
Term of patent 14 years
(Cl. D17—1)



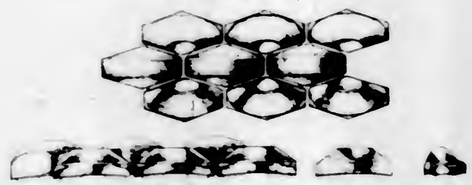
The ornamental design for a safety belt buckle, substantially as shown.

171,046
EXPANSIBLE LINK CHAIN FOR A WRIST-BAND OR SIMILAR ARTICLE
Alfred Pinson, Stamford, Conn., assignor to Apex Accessories Co., Inc., Greenwich, Conn.
Application February 27, 1953, Serial No. 23,817
Term of patent 14 years
(Cl. D45—4)



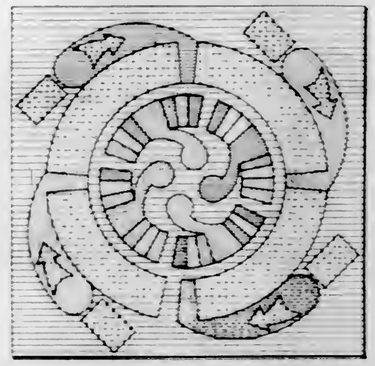
The ornamental design for an expansible link chain for a wrist band or similar article, as shown and described.

171,047
EXPANSIBLE LINK CHAIN FOR A WRIST-BAND OR SIMILAR ARTICLE
Alfred Pinson, Stamford, Conn., assignor to Apex Accessories Co., Inc., Greenwich, Conn.
Application February 27, 1953, Serial No. 23,818
Term of patent 14 years
(Cl. D45—4)



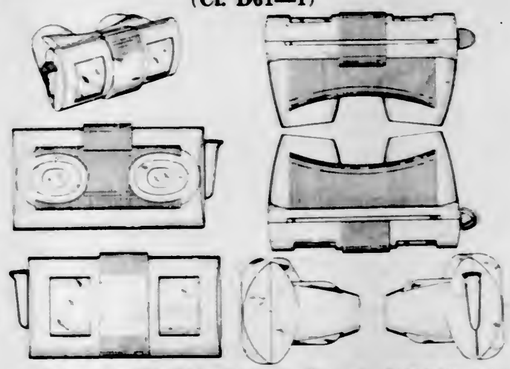
The ornamental design for an expansible link chain for a wrist band or similar article, as shown and described.

171,048
GAME BOARD
Neil F. Randall, Ogden, Utah
Application June 16, 1953, Serial No. 25,526
Term of patent 3½ years
(Cl. D34—5)



The ornamental design for a game board, as shown and described.

171,049
STEREOSCOPIC VIEWER
Clarence L. Romrell, Portland, Oreg., assignor to Sawyer's Inc., Progress, Oreg., a corporation of Oregon
Application June 5, 1953, Serial No. 25,342
Term of patent 14 years
(Cl. D61—1)



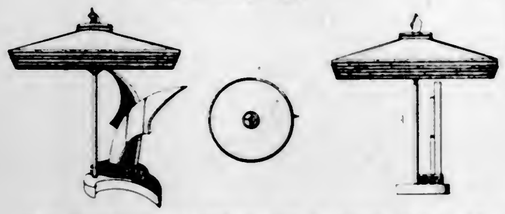
The ornamental design for a stereoscopic viewer, as shown.

171,050
GRAVY BOAT OR THE LIKE
Martin Rosen, Flushing, N. Y.
Application July 30, 1953, Serial No. 26,187
Term of patent 14 years
(Cl. D44—10)



The ornamental design for a gravy boat or the like, as shown.

171,051
TABLE LAMP
William Rosenthal, Culver City, Calif., assignor to Lynard of California, Inc., Culver City, Calif., a corporation of California
Application March 9, 1953, Serial No. 23,947
Term of patent 7 years
(Cl. D48—20)



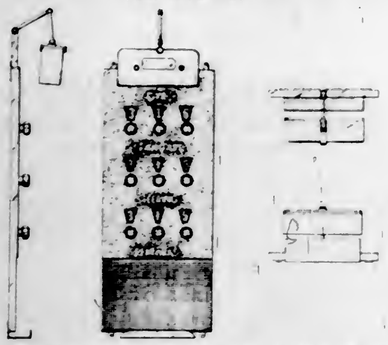
The ornamental design for a table lamp, as shown.

171,052
SPECTACLE FRAME
Neil Kenneth Glynne Rosser, Long Ditton, England, assignor to The Hadley Company Limited, Surbiton, England
Application February 9, 1953, Serial No. 23,518
Claims priority, application Great Britain August 15, 1952
Term of patent 14 years
(Cl. D57—1)



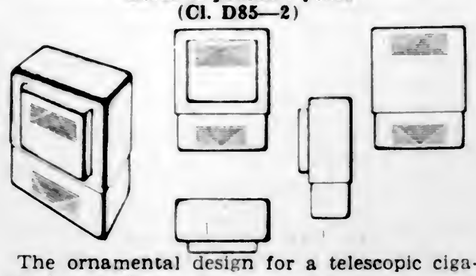
The ornamental design for a spectacle frame, substantially as shown.

171,053
SHIP'S COURSE BOARD
Treasure Rudder, San Francisco, Calif.
Application January 5, 1953, Serial No. 23,004
Term of patent 14 years
(Cl. D71—1)



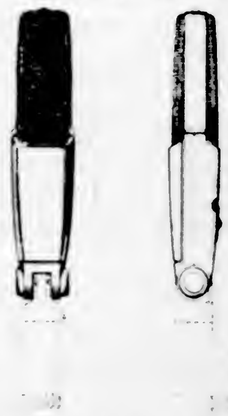
The ornamental design for a ship's course board, as shown and described.

171,054
TELESCOPIC CIGARETTE BOX
Maison Sachar, New York, N. Y.
Application July 13, 1953, Serial No. 25,926
Term of patent 7 years
(Cl. D85—2)



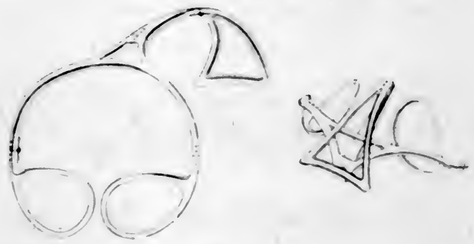
The ornamental design for a telescopic cigarette box, as shown.

171,055
MICROPHONE
Burt E. Schell, Jr., Mundelein, Ill., assignor to Shure Brothers, Incorporated, Chicago, Ill., a corporation of Illinois
Application January 7, 1953, Serial No. 23,050
Term of patent 14 years
(Cl. D26—14)



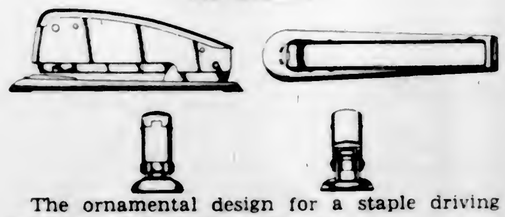
The ornamental design for a microphone, substantially as shown and described.

171,056
PAIR OF EYEGLASSES OR SIMILAR ARTICLE
Elsa Schiaparelli, Paris, France
Application October 28, 1952, Serial No. 22,013
Claims priority, application France May 7, 1952
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a pair of eyeglasses or similar article, as shown.

171,057
STAPLE DRIVING MACHINE
Fredrick W. Schmidt, Haworth, N. J., assignor to Lou Obstfeld, Brooklyn, and Abraham Obstfeld, New York, N. Y.
Application September 13, 1952, Serial No. 21,446
Term of patent 7 years
(Cl. D74—1)



The ornamental design for a staple driving machine, substantially as shown.

171,058
BROOCH OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a partnership consisting of Marcel Boucher and Jeanne Boucher
Application July 1, 1953, Serial No. 25,758
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a brooch or similar article, as shown.

171,059
EARRING OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a partnership consisting of Marcel Boucher and Jeanne Boucher
Application July 1, 1953, Serial No. 25,759
Term of patent 3½ years
(Cl. D45—9)



The ornamental design for an earring or similar article, as shown.

171,060
BROOCH OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a partnership consisting of Marcel Boucher and Jeanne Boucher
Application July 1, 1953, Serial No. 25,760
Term of patent 3½ years
(Cl. D45—19)



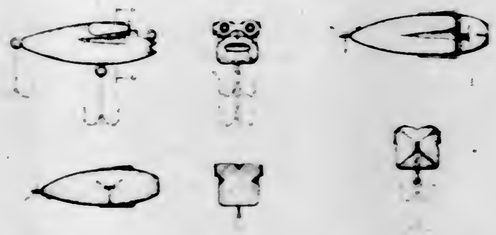
The ornamental design for a brooch or similar article, as shown.

171,061
BROOCH OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a partnership consisting of Marcel Boucher and Jeanne Boucher
Application July 3, 1953, Serial No. 25,794
Term of patent 3½ years
(Cl. D45—19)



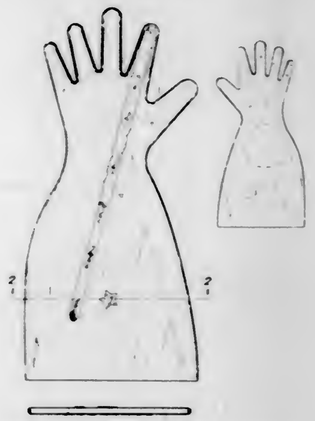
The ornamental design for a brooch or similar article, as shown.

171,062
FISHING PLUG
Edward W. Smith, Naval Base, S. C.
Application January 23, 1953, Serial No. 23,269
Term of patent 14 years
(Cl. D31—4)



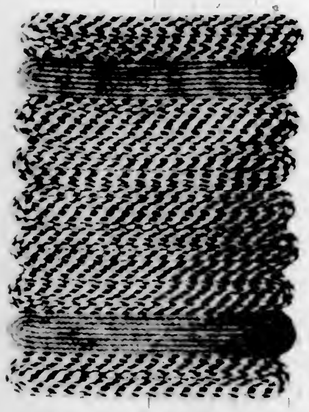
The ornamental design for a fishing plug, substantially as shown and described.

171,063
DRIVER'S GLOVE
Louise V. Starek, Parma, Ohio
Application December 17, 1952, Serial No. 22,738
Term of patent 7 years
(Cl. D3—11)



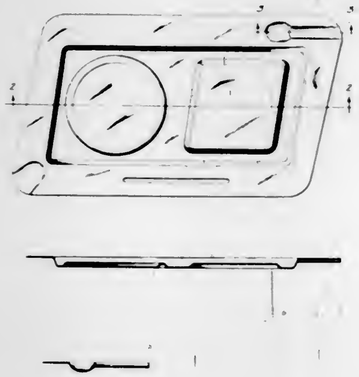
The ornamental design for a driver's glove, as shown and described.

171,064
RUG
Albert T. Taraborelli, Providence, R. I.
Application June 6, 1952, Serial No. 20,063
Term of patent 14 years
(Cl. D92—21)



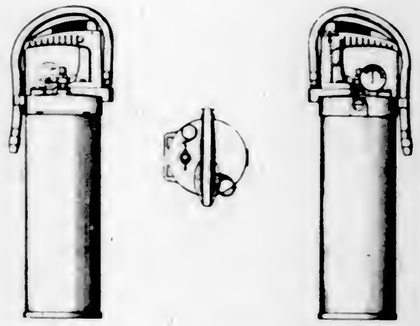
The ornamental design for a rug, as shown.

171,065
SERVING TRAY
Clifford C. Towns, Richmond Heights, Mo., assignor to Seco Company, Inc., St. Louis, Mo., a corporation of Missouri
Application July 3, 1953, Serial No. 25,796
Term of patent 14 years
(Cl. D44—10)



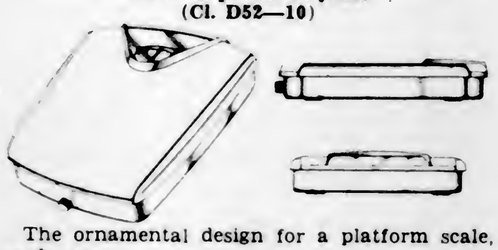
The ornamental design for a serving tray, substantially as shown.

171,066
FIRE EXTINGUISHER
Edwin P. Van Sciver, Philadelphia, Pa., assignor to Pyrene Manufacturing Company, Newark, N. J., a corporation of Delaware
Application July 17, 1953, Serial No. 26,007
Term of patent 14 years
(Cl. D16—2)



The ornamental design for a fire extinguisher, as shown.

171,067
PLATFORM SCALE
Franz Wagner, Chicago, Ill., assignor to Borg-Erickson Corp., Chicago, Ill., a corporation of Illinois
Application April 10, 1953, Serial No. 24,449
Term of patent 14 years
(Cl. D52—10)



The ornamental design for a platform scale, as shown.

171,068
PLATFORM SCALE
Franz Wagner, Chicago, Ill., assignor to Borg-Erickson Corp., Chicago, Ill., a corporation of Illinois
Application April 10, 1953, Serial No. 24,450
Term of patent 14 years
(Cl. D52—10)

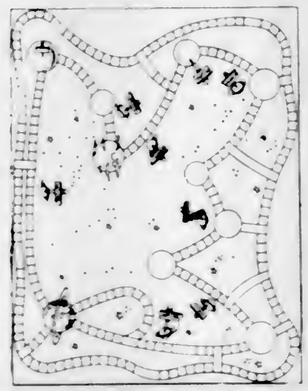


171,068—Continued



The ornamental design for a platform scale, as shown.

171,069
GAME BOARD
Donald C. Waldecker, Rockford, Ill.
Application November 10, 1952, Serial No. 22,213
Term of patent 14 years
(Cl. D34—5)



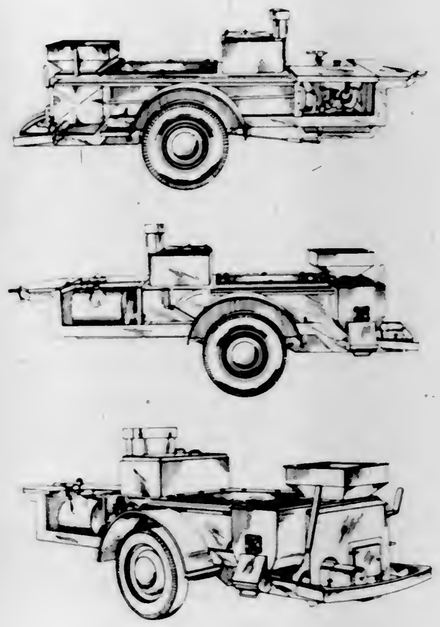
The ornamental design for a game board, as shown and described.

171,070
COMBINED ROLL PAPER HOLDER AND CUTTER
Edward Waltz, Grand Rapids, Mich., assignor to The E. O. Bulman Manufacturing Company, Inc., Grand Rapids, Mich., a corporation of Michigan
Application April 29, 1953, Serial No. 24,743
Term of patent 14 years
(Cl. D4—3)



The ornamental design for a combined roll paper holder and cutter, as shown.

171,071
ASPHALT PATCHING PLANT
Joseph S. Wylie, Oklahoma City, Okla.
Application November 17, 1951, Serial No. 17,455
Term of patent 14 years
(Cl. D14—4)



The ornamental design for an asphalt patching plant, as shown.

December 15, 1953 Volume 677 Number 3

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

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PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business Nov. 27, 1953

Total number of patent applications awaiting action, 104,550. Date of oldest new application, January 27, 1953; date of oldest amended application, January 30, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	3-13-53	3-9-53	1382
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-5-53	3-11-53	1250
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus) Heating; Coating or Plastic Composition (part).	3-23-53	3-30-53	1993
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	3-9-53	3-11-53	1551
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	3-3-53	3-2-53	1384
6. SURLE, H., Carbon Chemistry (part)	2-2 53	2-2-53	2166
7. GONSALVES, J. E., Optics; Photography (part)	2-27-53	2-24-53	1877
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	3-27-53	3-27-53	1490
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	3-2-53	3-2-53	1227
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	3-18-53	3-19-53	1236
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	3-2-53	3-3-53	1798
13. BEALL, T. E., Gear Cutting, Milling, Planting; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	2-24-53	2-17-53	1273
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	3-27-53	3-16-53	1492
15. BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	3-2-53	3-3-53	1741
16. LOVEWELL, N. N., Television; Telephony; Recorders	2-2-53	2-3-52	1798
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	3-2-53	3-2-53	1461
18. KURZ, J. A., Power Plants; Speed Responsive Devices	2-27-53	2-16-53	1409
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	2-11-53	2-5-53	1119
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	3-31-53	3-25-53	1213
21. MADER, R. C., Textiles	3-9-53	3-9-53	1283
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	3-20-53	3-20-53	1182
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	2-27-53	2-24-53	1009
24. HICKEY, T. J., (Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles Ironing or Smoothing	5-5-53	5-5-53	1058
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	2-24-53	2-27-53	1430
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	3-12-53	3-13-53	1935
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	3-23-53	3-23-53	1273
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	3-18-53	3-18-53	1431
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	3-4-53	3-3-53	1281
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	5-12-53	5-12-53	1467
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	2-17-53	2-16-53	1879
32. BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	3-31-53	3-24-53	1351
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	3-4-53	3-2-53	1998
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	2-19-53	2-25-53	1312
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	3-23-53	3-13-53	1413
36. McFADYEN, A. D., Measuring and Testing	3-16-53	3-20-53	1081
37. LEVY, M. L., Electricity-Switches, Welding, Heating	3-30-53	3-27-53	1724
38. MARMELSTEIN, N., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	2-12-53	2-9-53	2047
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	4-9-53	4-8-53	1557
40. DRUMMOND, E. J., Receptacles (part); Packages	3-19-53	3-17-53	2095
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	3-16-53	3-10-53	1728

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	3-2-53	2-27-53	1759
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-2-53	3-2-53	1965
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	3-17-53	3-17-53	1306
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	2-24-53	2-25-53	1177
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	3-10-53	3-13-53	1582
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	2-17-53	2-24-53	1827
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	3-12-53	3-17-53	1460
50. BENGEL, W. G., Synthetic Resins; Rubber	4-30-53	4-30-53	1962
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	1-27-53	1-30-53	1508
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	4-2-53	4-2-53	1984
53. REYNOLDS, E. R., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	3-10-53	3-2-53	1616
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications.	2-27-53	3-16-53	1909
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet.	2-10-53	2-18-53	1650
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	4-13-53	4-14-53	1357
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	3-25-53	3-23-51	1800
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	3-2-53	3-2-53	1363
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-10-53	3-10-53	1495
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	4-15-53	4-21-53	919
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	3-24-53	3-16-53	1871
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	2-16-53	2-10-53	2024
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	3-9-53	3-9-53	1704
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	3-16-53	3-16-53	1074
67. KRAFET, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	3-18-53	3-17-53	1594
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	3-11-53	3-6-53	1614
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	2-2-53	1-30-53	3606
DESIGNS—A—BREHM, G. L., Industrial Arts	6-29-53	6-29-53	1125
DESIGNS—B—GRAY, M. A., Household, Personal and Fine Arts	7-6-53	8-5-53	873

Number of new applications received week ending November 6, 1953

PATENTS 1,259 DESIGNS 84 REISSUES 3 TOTAL 1,346

Total number of trade-mark applications awaiting action (including renewals and republications), 11,984. Date of oldest new application, June 25, 1953; date of oldest amended application, June 21, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	6-29-53	6-29-53	2926
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	6-27-53	6-27-53	2957
Renewals (All Classes)	9-25-53	10-28-53	367
Republications (All Classes)	9-24-53	10-30-53	240
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	7-1-53	6-30-53	2660
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.	6-25-53	6-21-53	2834

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE FISK

No. 5983. Decided June 17, 1953

[205 F.2d 191; 98 USPQ 217]

PATENTABILITY—PARTICULAR SUBJECT MATTER—PRODUCING A GAS-EXPANDED CELLULAR PRODUCT.

Certain claims to a method of producing a gas-expanded cellular product *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from the Patent Office. Serial No. 760,709.

AFFIRMED.

Harry Levy (*Elmer Stewart* of counsel) for appellant.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

On July 12, 1947, appellant filed an application for a patent for Gas Expanded Products, Serial No. 760,709.

Subsequently, the Primary Examiner finally rejected all of the claims 2, 4, and 5 as unpatentable over the following references: Semtex (Great Britain), 571,284, August 17, 1945, Sachs-Modern Plastics, pages 173–176, December 1945, Hoover et al., 2,429,060, October 14, 1947, Nye, 2,461,761, February 15, 1949.

The Board of Appeals affirmed the decision of the Examiner and from the decision of the Board this appeal was taken.

The claims read as follows:

2. In a method of producing a gas-expanded cellular product from a liquid, non-aqueous, thermosetting polymerizable resin mix comprising an unsaturated liquid alkyd of an ethylenic alpha, beta-dicarboxylic acid and a glycol, and a monomeric monoenic liquid compound having a terminal ethylenic

$$\begin{matrix} H \\ | \\ -C= \end{matrix}CH_2$$

group, an inhibitor of polymerization, and a peroxide catalyst, the improvement which consists essentially in the steps of additionally adding, when the mix is ready for gas expansion and rapid polymerization, water, an organic acid capable of decomposing carbonates, an inorganic carbonate adapted to liberate carbon dioxide gas within the mass without the use of additional heat, and a chemical gelation promoter, and causing gelling and setting of the mass with the aid of the chemical gelation promoter capable of inducing rapid polymerization of the said resin mix in the presence of the peroxidic catalyst concurrently with the expansion to a cellular mass, substantially no outside heat being supplied to the mass, the operation of gas expansion and gelation being performed on the as yet unexpanded original stable mixture.

4. In a method of producing a gas-expanded cellular product from a liquid, non-aqueous, thermosetting polymerizable resin mix comprising a liquid non-aqueous intermediate alkyd formed by esterification of an ethylenic 1-2-dicarboxylic acid with a glycol, a monomeric liquid compound containing a terminal

$$\begin{matrix} H \\ | \\ -C= \end{matrix}CH_2$$

group, an inhibitor of polymerization, and a peroxide catalyst, the improvement which consists essentially in the steps of additionally adding an organic acid capable of decomposing carbonates, and subsequently, when the mix is ready for gas expansion and rapid polymerization, adding water, an inorganic carbonate, and a chemical gelation promoter capable of inducing rapid interpolymerization of the unsaturated alkyd and the said monomeric ethylenic compound, the resulting mix being pourable and sufficiently stable and substantially unreactive for a desired period of time not exceeding about 60 minutes, and causing within such period, and without supplying additional heat, gas evolution and foaming of the mass by evolved carbon dioxide gas, and causing concurrently with the gas evolution and foaming, a gelling and setting of the mass aided by the promoter, and substantially completing the gelling and setting of the mass, with substantially no outside heat being supplied, by the time the carbon dioxide evolution has produced an expanded cellular mass of desired density, the operation of gas expansion and gelation being performed on the as yet unexpanded original stable mixture.

5. In a method of producing a gas-expanded cellular product from a liquid, substantially anhydrous, thermosetting polymerizable resin mix comprising an unsaturated liquid alkyd of an ethylenic-alpha, beta-dicarboxylic acid and a glycol, said alkyd having an acid value in the range from 10 to 100, and a monomeric monoenic liquid compound having a terminal ethylenic group $-CH=CH_2$, an inhibitor of polymerization and a peroxide catalyst, the improvement which consists essentially in the steps of producing a dynamically unstable foam by adding to the unexpanded mix, as sole inflating agent, sufficient of an inorganic carbonate and water to liberate within the mass, by reaction with the acid and water components of the system without added heat, sufficient carbon dioxide to expand the mass to the low density desired, and also adding a chemical gelation promoter capable of inducing rapid polymerization, whereby expansion and setting of the mass take place concurrently with substantially no outside heat being supplied to the system, the operation of gas expansion and gelation being performed on the as yet unexpanded original stable mixture.

The application relates to a method used in the production of solid expanded material from liquid anhydrous thermosetting synthetic organic resins which innately will not form stable liquid-gas foams. It is particularly concerned with the treatment of liquid thermosetting copolymerizable mixtures of an unsaturated alkyd such as an alkyd of an ethylenic alpha, beta-dicarboxylic acid, and containing, in addition, a polymerizable monomeric compound having a terminal

$$\begin{matrix} H \\ | \\ -C= \end{matrix}CH_2$$

group.

Appellant states in his specification that an object of the invention is to provide means for overcoming non-foaming characteristics to produce a stable foam which when cured can be converted into a solid low density expanded product. An-

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other object is to provide a low-viscosity liquid resin mixture which is self-foaming and self-polymerizing with the addition of little or no heat. An additional object is said to provide means for manufacturing therefrom cured foamed resin masses without using heavy molding, heating, or pressing equipment.

The patent to Hoover et al, relates to a method of impregnating fibrous sheets or cloths with heat-hardenable resins to form relatively stiff sheets or laminated sheets having a hard tough non-cracking surface, and particularly to a method of controlling transition of the liquid resin to a solid infusible state so as to avoid undesirable and uncontrollable flow of the resin with consequent unevenness of the surface of the final product.

The resins of the Hoover et al. reference contain monomeric styrene and a polymeric mixed maleicphthalic diethylene glycol ester. It is stated in this specification that if the liquid resinous material, containing a polymerization catalyst, is compounded with hydrazine, polymerization will commence immediately and shortly thereafter reach the gel stage and then by reason of the exothermic heat will continue to polymerize at a greater rate of speed until a mass results which is cured and substantially completely polymerized, all without the application of any external heat.

The patent to Nyé relates to a method of making a cellular or expanded resin material formed from a whipped up or expanded 100 per cent polymerizable thermosetting resin. The liquid resin is of the class represented by the polyethylene glycol-malente-styrene copolymer resins. That substance has added to it a polymerization catalyst and then is aerated with a high speed mixer. Subsequently, zinc stearate, sodium bicarbonate and water are added and the mixture whipped until there is complete dispersion and a light foamy mass is formed. Before casting the mass, acetic acid and a hydrazine gelling agent are added and the foam begins to gel within two or three minutes, being completely gelled within five to six minutes. It is stated that the mass may then be heated to a temperature of 230° to 260° F. in order to cure it into a cellular hardened condition. It is stated that there is produced in the expanded material a specific gravity as low as three or four pounds to the cubic foot.

The British patent relates to the production of cellular synthetic resin compositions from a liquid partially-condensed reaction product of phenol and formaldehyde, which is done by adding an acid hardening agent and a substance which will react to form a gas. The mixture is placed in a mold and without the application of external heat the conversion of the resin to its fully condensed form takes place.

In the Sachs publication it is set out that the styrene polyester copolymers are outstanding among the copolymer resins which may be converted into cellular form without using pressure. The standard method, it is said, for producing cellular board is to catalyze the resin, mix in the blowing agent and expand in a mold consisting of two sheets of plate glass separated a suitable distance by a polyvinyl chloride gasket about the periphery. The blowing agent for those resins is carbon dioxide which is produced in the reaction between an acid and sodium bicarbonate. It is stated that the products may be of any degree of rigidity from a brittle to a rubbery texture with a density of from twenty to thirty pounds per cubic foot.

The Primary Examiner in his letter of rejection rejected all of the claims as unpatentable over the Sachs reference. The claims were also rejected by him as unpatentable over the Nye patent and further rejected as unduly multiplied.

The Board of Appeals in its decision stated that the claims stand rejected as not patentable over the Sachs reference in view of the Hoover, Nye and Semtex references, and also not patentable over the Nye patent with the Sachs or Semtex or Hoover references.

The Board noted that the claims are in *Ex parte Jepson* form, the preamble stating the old field in which the improvement lies, which in this case is in the making of a gas expanded cellular product from a liquid, nonaqueous, thermosetting polymerizable resin mix. The preamble enumerates the ingredients of that resin mix, which in all of the claims include "an inhibitor of polymerization and a peroxide catalyst." The Board observed that the claims differ in the steps and/or results recited.

It was observed in the decision of the Board that the Examiner omitted in his statement some of the references used in the final rejection and assumed those which were not mentioned were withdrawn but that the remaining references are sufficient to represent the condition of the prior art.

As said by the Board, the Nye patent is the closest of the references. The process begins with a resin mix to which there is added the same catalyst used by appellant—benzoyl peroxide. In the patent, the mix is whipped to a foam to which is added zinc stearate for the purpose of stabilizing the foam, sodium bicarbonate as a blowing agent, and water, which are whipped into the foam, then acetic acid and a gelling agent, phenyl hydrazine, are added. The mixture is heat cured in order to set the foam into a cellular hard mass.

The Nye patent discloses the development of porosity partially by whipping air into the resinous mix and partially by blowing carbon dioxide into the mix. It appears that both Sachs and Semtex procure porous cellular masses by blowing with bicarbonate and acid in order to release a great number of gas generated cells.

It seems to us that no invention is involved in the production of the cellular mix altogether by blowing nor to reverse the order of adding the blowing ingredient of the Nye reference (bicarbonate of soda) and the acid to the mix.

It is contended by appellant that he performed gas expansion and gelling concurrently through exothermic heat of the reaction without applying outside heat. It is disclosed in both the Semtex and Hoover references that exothermic heat of the reaction is employed to hasten the reaction, therefore, no invention would be involved in using such expedient in the resin mix defined in the claims.

All of the contentions of appellant received attention, but we find no error in the decisions of the patent tribunals.

The decision of the Board of Appeals is affirmed.

AFFIRMED.

JACKSON, J., retired, recalled to participate herein in place of GARRETT, *Chief Judge*.

U. S. Court of Customs and Patent Appeals

IN RE JEAN LOUMIET ET LAVIGNE

No. 5978. Decided June 24, 1953

[205 F.2d 310; 98 USPQ 225]

1. CLAIMS—FUNCTIONAL—USE OF WORDS "DIRECTLY AND FREELY" HELD FUNCTIONAL.

The limitation in the applicant's claim that a chamber connects certain pipes "directly and freely" *Held* not to define structure differentiating from the prior art but rather merely the function or use of the closed chamber, on which patentability cannot be predicated.

2. SAME — NEGATIVE LIMITATION — "UNPROVIDED WITH ANY OPENING OTHER THAN—" HELD TO BE NEGATIVE LIMITATION.

The limitation that a chamber is "unprovided with any opening other than" certain connecting tubes *Held* not to "patentably distinguish over the combination of references since it is merely a statement of what is not included in the structure rather than positively pointing out the structure that is provided to obtain the desired results—."

3. PATENTABILITY — INVENTION — CRITICAL LIMITATION MUST APPEAR IN SPECIFICATAON.

Where the appellant contends that the references cannot properly be combined to anticipate a certain limitation shown in his drawings but not mentioned in his specification, *Held* that, "even if the combination of references was invalid the limitation expressed is apparently not a critical part of the invention since no basis is found for this limitation in the specifications of appellant."

4. SAME—PARTICULAR SUBJECT MATTER—EVAPORATING APPARATUS.

Certain claims to an evaporating apparatus *Held* properly rejected as failing to define invention over the cited prior art.

APPEAL from the Patent Office. Serial No. 594,031.

AFFIRMED.

Albert C. Nolte (*Clarence M. Crews* of counsel) for appellant.

E. L. Reynolds (*Clarence W. Moore* of counsel) for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner in finally rejecting claims 19, 20, 23, 24, and 25 of appellant's application, Serial No. 594,031, for a patent on "Evaporating Apparatus." Appellant has withdrawn his appeal as to claims 23 and 24, so the only claims before us for consideration are claim 25 and dependent claims 19 and 20. All appealed claims are apparatus claims. Claims 7, 26, and 27, all apparatus claims, have been allowed.

Appealed claims 25, 19, and 20 read as follows:

Claim 25. An unit of evaporating apparatus comprising an upper calandria of parallel non-horizontal tubes and a lower calandria of parallel tubes having at one of its extremities a liquid supply chamber in free and open communication with the inlet ends of the tubes of that calandria; at its other extremity a closed chamber located between the calandrias, said chamber connecting the outlet ends of the tubes of the lower calandria directly and freely with the lower ends of the tubes of the upper calandria and unprovided with any opening other than the mouths of the adjoining calandria tubes; the lower calandria containing a less number of tubes than the upper.

Claim 19. An unit of evaporating apparatus as described in claim 25 comprising means for injecting a vapor from an outside source into the liquid being treated at the inlet of every one of the tubes of the lower calandria designed as an emulsifier.

Claim 20. An unit of evaporating apparatus as described in claim 25 comprising means for ejecting a vapor from an outside source into the liquid being treated at the inlet of every one of the tubes of the lower calandria designed as an emulsifier, wherein the outer surface of the connecting chamber disposed between the calandrias is a surface of revolution and both calandrias are coaxial with said surface and the tubes they contain extend vertically.

The references relied on are: Kestner, 1,013,019, December 26, 1911; Rusiecki, 1,021,486, March 26, 1912; Lawrence, 1,524,184, January 27, 1925; Fried (German), 543,105, February 1, 1932.

The present application discloses an improved evaporating apparatus composed of a series of evaporating units. The first unit comprises an emulsifier at the lower portion of the unit having an annular heater surrounding a central calandria which is provided with vertically extending tubes and a main calandria above the emulsifier, also provided with vertical tubes. The emulsifier and the main calandria are joined by a neck-shaped casting which directly connects the open ends of the tubes in the upper and lower calandrias. The solution to be evaporated is introduced into the annular heater and after circulating therethrough is delivered in a heated condition to a circular space below the lower calandria into which extends the lower open ends of the tubes of the lower calandria. Below the circular space is a chamber provided with a number of spouts which extend into the circular space, in alignment with the open ends of the tubes. A treating vapor is introduced into the chamber and passes through the circular space into the open ends of the tubes, emulsifying the solution to be evaporated. The treating vapor forces the solution to be evaporated against the walls of the tubes in a thin layer, while the vapor occupies the center of the tubes. The tubes of the calandrias are enclosed in a jacket provided with closure plates at both ends, through which the ends of the tubes extend. A heating medium, usually steam, is introduced into the jacket where it passes externally about the tubes. The latent heat of the steam is transferred through the tubes to the solution passing therethrough, causing a partial evaporation of

the solution. In the lower calandria, this vapor, released by said partial evaporation joins with the treating vapor, further emulsifying the solution. The emulsified solution is delivered through the closed chamber joining the two calandrias to the open ends of the tubes of the upper calandria. Here the same effect takes place as in the lower calandria, that is the liquid portion of the solution is forced against the walls of the tubes by the emulsifying vapor and absorbs the heat contained in the tube walls, thus causing a further evaporation of the solution. At the top of the upper calandria the liquid and vapor are separated, the concentrated liquid being led off to the intake of a succeeding unit at a lower pressure, thereby lowering the boiling point of said liquid, while the vapor is used as the heating medium for the calandrias of the succeeding unit. The same process is repeated at each succeeding unit, with the exception that no annular heater is necessary, since the liquid is delivered in a heated condition from the preceding unit. In the final unit of the series the concentrated liquid is drawn off and the vapor is delivered to a condenser. Applicant allegedly obtains a greater concentration of the liquid with greater efficiency by means of the emulsifying of the liquid in the lower calandria and delivering the emulsified solution to the upper calandria for further evaporation. This type of evaporation is known as the *climbing film* type in the art.

Lawrence is the primary reference relied on in the rejection of the appealed claims. This reference discloses a double effect evaporator comprising an upper and a lower calandria, each calandria being provided with vertical tubes, apparently equal in number. The upper and lower calandrias are arranged in a single casing with a separating chamber disposed between the calandrias. Below each calandria is a liquid chamber directly connected to the inlet ends of the tubes of the calandria and supplied with liquid through a small pipe containing a restriction therein. In operation, liquid is fed into the liquid chamber of the lower calandria while a heating medium, such as steam, is introduced into the heating spaces about the tubes. The liquid rises in the tubes and is partially evaporated by the transfer of heat from the steam through the walls of the tubes to the liquid as the liquid passes through the tubes. This partial evaporation produces the "climbing film" effect through a portion of the tubes. At the top of the tubes the liquid and the vapor are separated in the separating chamber, the vapor being fed into the heating space about the tubes of the upper calandria while the concentrated liquid is carried through the small pipe into the liquid chamber of the upper calandria. The pressure of the liquid is lowered by the constriction in the pipe, thus effectively lowering the boiling point of the liquid so that the vapor which was released from the lower calandria can operate as a heating medium in the upper calandria and further evaporate the liquid in the upper calandria. The released vapor from the upper calandria is led off to a suitable condenser while the concentrated liquid is fed to a suitable reservoir. The patents to Rusiecki and Fried disclose evaporating systems in which the steam for evaporating is led through horizontal tubes while the tubes are immersed in the liquid to be evaporated or the liquid is dripped over the tubes. In both of these patents the patentee discloses a lesser number of tubes in the lower evaporator than in the upper. Appellant points out that this is necessary because the steam is introduced into the highest part of the evaporating system and as it descends through the system the volume of the steam is necessarily diminished due to condensation so that less area is required to contain the steam in the lower part of the system. The Kestner patent discloses the use of a special preliminary separating chamber in conjunction with an evaporator of the "climbing film" type in which a partial separation of vapor from the solution to be evaporated is effected, the solution being preheated before arriving at the chamber. This released vapor is taken from the preliminary separator to the lower end of the calandria where a series of small nozzles or jets forces the vapor into the open ends of the tubes of the calandria. The liquid is also led to the lower portion of the calandria by another route, which places the liquid above the nozzles or jets and the force of these jets causes the liquid to be pulled into the open ends of the tubes. This effectively produces emulsification of the liquid so that it is forced against the walls of the tubes in a thin layer.

Claim 25, the independent claim here on appeal, was rejected by the Patent Office tribunals as unpatentable over the patent to Lawrence in view of either of the patents to Rusiecki or Fried. The Examiner in rejecting the claim on this combination of references stated that all the applicant had done was to eliminate the separator of Lawrence between the two calandrias along with its function. Applicant argued that such an alteration of the Lawrence reference would completely destroy the effectiveness of the upper calandria. The Board of Appeals apparently did not agree either with the Examiner nor the applicant for, in rejecting claim 25 on the combination of references they said:

> In other words, in part at least, the suggested alteration of the Lawrence apparatus destroys its intended purpose and function. However, we are not convinced that the claim defines apparatus structure that patentably differentiates over Lawrence in view of Fried or Rusiecki. That portion of the claim
>
> "a closed chamber located between the calandrias, said chamber connecting the outlet ends of the tubes of the lower calandria directly and freely with the lower ends of the tubes of the upper calandria and unprovided with any opening other than the mouths of the adjoining calandria tubes,"
>
> to which appellant, on page 13 of his brief, calls our attention as being a limitation which defines structure that does not correspond to that disclosed by Lawrence does not, in our opinion, define structure that is strikingly different from the Lawrence apparatus.
>
> • • • • • • •
>
> Furthermore, even assuming that there is a material structural distinction between appellant's chamber and that disclosed by Lawrence, the patentability of the claim cannot be predicated merely on an implication that the chamber is capable of accommodating the flow of liquid more freely and directly than that disclosed in the prior art. Nor are we impressed with the last clause of the above quoted portion of the claim. It does not define any definite structure. It merely limits, in a negative way, the number of intangible elements (openings) that may be present in the walls of the chamber connecting the two calandrias. Or, as the Court [The Court of Customs and Patent Appeals] has indicated under similar circumstances, *In re Wharton*, 70 USPQ 228 [33 CCPA (Patents) 1198] "it is merely a statement of something to be avoided." The Examiner's rejection of the claim on the prior art will be sustained.

It is apparent that to be patentable claim 25 must set out sufficiently definite structure in the words "a closed chamber • • • connecting • • • directly and freely" the tubes of the upper and lower calandrias and "unprovided with any opening other than the mouths of the adjoining calandria tubes" that is patentably distinct from the structure disclosed in the Lawrence patent. Lawrence does disclose a chamber, closed in the sense that the word is used by appellant, connecting the tubes of the upper and lower calandrias but he also discloses an additional opening that leads from the chamber to the heating space of the upper calandria and the use of a constricted pipe to carry the liquid from the chamber to the tubes of the upper calandria. Therefore, we must determine whether the words "directly and freely" patentably distinguish over the constricted pipe, and whether the phrase "unprovided with any opening other than the mouths of the adjoining calandria tubes" sufficiently distinguishes from the opening to the heating space disclosed by Lawrence.

With reference to the words "directly and freely" the Board of Appeals considered this to be merely a matter of degree and therefore unpatentable, quoting Walker on Patents, 6th Ed., vol. 1, sec. 68: "It is not invention to change the size or degree of a thing, or of any feature or function of a machine of manufacture." Appellant agrees with the Board in part since he says in his brief:

> In Lawrence the communication between the tubes of the lower unit with the tubes of the upper unit is impeded by the diaphragm, the funnel, the cover, and the tube with its constriction. We admit that the diaphragm, the funnel and the cover are not intended to operate as pressure reducing obstructions, and do not do so in any marked degree, and we should be inclined to go along with the Board and say that the differences *so far as these elements are concerned* is merely an immaterial difference of degree. [Emphasis by appellant. Text slightly paraphrased to eliminate reference numerals and reference to patent specification by number and page.]

Then appellant argues that the constriction that reduces the pressure from the lower to the upper calandria is a difference of kind and not degree and therefore, the Lawrence patent does not anticipate the claimed subject matter.

[1] With this contention we are unable to agree. Insofar as any structural limitation is set out positively in claim 25, such structure is found in the Lawrence patent, combined with the patent to either Rusiecki or Fried. The words "directly and freely" do not set out any structure but merely describe the function or use of the closed chamber. That patentability cannot be predicated on a functional or use limitation but must depend upon the recitation of structure that patentably distinguishes over the prior art is a well settled doctrine of Patent law. *In re Laurent*, 38 CCPA (Patents) 811, 186 F.2d 741, 88 USPQ 369; *In re Lippold*, 37 CCPA (Patents) 713, 176 F.2d 932, 83 USPQ 120; *In re Gardiner*, 36 CCPA (Patents) 748, 171 F.2d 313, 80 USPQ 99. [2] The phrase "unprovided with any opening other than the mouths of the adjoining calandria tubes" cannot be considered to patentably distinguish over the combination of references since it is merely a statement of what is not included in the structure rather than positively pointing out the structure that is provided to obtain the desired results argued by appellant. We are of the opinion that the Board was correct in refusing to consider this phrase as defining structure that was patentably distinct from the reference. *In re Wharton*, 33 CCPA (Patents) 1198, 156 F.2d 180, 70 USPQ 228.

[3] Applicant also argues that it is incorrect to combine the Rusiecki or Fried patent with the Lawrence patent to meet the limitation of "the lower calandria containing a less number of tubes than the upper," since the use of the lesser number of tubes in the secondary references is for another purpose than that used by the applicant and that there would be no reason to so modify the apparatus of Lawrence. However, throughout applicant's specification no mention is made of the fact that a lesser number of tubes are required in the lower calandria than in the upper; in fact the point is not even mentioned in the specification. Therefore, even if the combination of references was invalid the limitation expressed is apparently not a critical part of the invention since no basis is found for this limitation in the specifications of appellant. Furthermore, we are of the opinion that the auxiliary references clearly disclose that there is no invention in providing the lower portion of an evaporator with a less number of tubes than the upper, if so desired.

The brief for appellant lays great stress upon various limitations of his invention that are not found in the prior art, such as the introduction of steam, or other heating medium into the heating space of both the upper and lower calandrias from a common source. However meritorious these limitations may be we are unable to find them expressed in any way in the claims here on appeal. It is well settled that limitations not expressed in the claims cannot be read into them to avoid the prior art. *On re Erickson*, 36 CCPA (Patents) 734, 171 F.2d 307, 80 USPQ 94 and cases cited therein.

Claims 19 and 20 are rejected on the same references applied against claim 25 in view of the disclosure of Kestner. That Kestner discloses the use of means to inject a vapor into the liquid at the inlet of the tubes of the calandria cannot be denied. To use a comparable means in the device of Lawrence would not, in our opinion, involve invention. The term "outside source" cannot be considered to nullify the teaching of the Kestner patent. We do not see how such term distinguishes from the manner disclosed in the Kestner patent, and even if such term were considered to mean some

source of steam or vapor other than the vapor previously separated from the solution, we are of the opinion that such an expediency would be obvious to one skilled in the art in view of the teaching of the Kestner patent.

Appellant's brief contains many arguments that relate to the scope of the invention disclosed in the specification of the patent application, apparently with the view of impressing on us the merits of his invention. In fact many points covered in the brief do not even appear in the original specification, such as the detailed explanation of the desirability of using a lesser number of tubes in the lower calandria. However, on an appeal to this court, we are not concerned with whether or not the application discloses an invention. We are only concerned with the question of whether or not the appealed claims contain matter that is patentable over the prior art. *In re Lamb*, 32 CCPA 799, 146 F.2d 277, 64 USPQ 241. We have given careful consideration to all appellant's arguments that bear on the question before us on this appeal, but for the reasons hereinbefore stated we are of the opinion that the claims do not distinguish patentably over the references cited against them.

[4] The decision appealed from is affirmed.

AFFIRMED.

JACKSON, *J.*, retired, recalled to participate herein in place of GARRETT, *C. J.*

U. S. Court of Customs and Patent Appeals

IN RE RADIO CORP. OF AMERICA

No. 5962. Decided June 3, 1953

[205 F.2d 180; 98 USPQ 157]

1. SERVICE MARKS—LIMITED IN APPLICATION TO INTANGIBLES.

Since, if Congress had intended service marks to apply to goods or products, it would have so stated, *Held* that Congress intended "a service mark to function in such a fashion as to identify and distinguish those things of an intangible nature, such as services, in contradistinction to the protection already provided for the marks affixed to those things of a tangible nature, such as goods and products."

2. SAME—DEFINITION OF "SERVICE"—DOES NOT APPLY TO RADIO PROGRAM PRIMARILY DIRECTED TO SELLING GOODS.

Held that a radio program, which the evidence shows to be designed primarily to advertise and sell an applicant's goods, does not constitute a "service" within the meaning of sections 3 and 45 of the Trade-Mark Act of 1946.

3. APPEAL TO U. S. COURT OF CUSTOMS AND PATENT APPEALS—PRIOR REGISTRATIONS BY OFFICE NOT CONSIDERED.

Rule restated that the court does not consider contentions that the Patent Office is inconsistent in allowing the registration of marks which the appellant considers comparable to its own.

4. SERVICE MARK—REGISTRABILITY—"THE MUSIC YOU WANT WHEN YOU WANT IT."

The decision of the Commissioner of Patents refusing to register the slogan "The Music You Want When You Want It" as a service mark affirmed.

APPEAL from the Patent Office. Serial No. 547,768.

AFFIRMED.

John A. Wortmann for appellant.

E. L. Reynolds for the Commissioner of Patents.

WORLEY, *J.*:

This is an appeal by the Radio Corporation of America, hereinafter referred to as appellant, from a decision of the Commissioner of Patents affirming the denial by the Examiner of appellant's application for registration of the slogan "The Music You Want When You Want It" under section 3 of the Lanham Act (Trade-Mark Act of 1946 (15 U. S. C., sec. 1053)). That section reads as follows:

Sec. 3. Service Marks registrable

Subject to the provisions relating to the registration of trade-marks, so far as they are applicable, service marks used in commerce shall be registrable, in the same manner and with the same effect as are trade-marks, and when registered they shall be entitled to the protection provided herein in the case of trade-marks, except when used so as to represent falsely that the owner thereof makes or sells the goods on which such mark is used. The Commissioner may establish a separate register for such service marks. Applications and procedure under this section shall conform as nearly as practicable to those prescribed for the registration of trade-marks. (15 U. S. C. 1053.)

The Patent Office refused to register the involved slogan as a service mark on the ground that the slogan was used by appellant in the advertising or sale of its *goods* rather than in the advertising or sale of its *services*, as required by the statute.

From the record it appears that the appellant manufactures phonograph records, prepares "package" radio programs of thirty minute length, and claims use since 1937 of the involved slogan in connection with those programs. Appellant declares the programs are devoted principally to playing "the very best musical classics" and are heard over approximately two hundred radio stations. Appellant pays the stations for the time employed in presenting its programs and has an agreement with them that only the records manufactured by it; namely, Victor records, provided without cost to the stations, are to be used on the programs. Appellant also designates the schedules of the broadcasts, the order in which the records are played, and specifies that the involved slogan shall be used as the title of the programs.

Several radio scripts accompany the application for registration. Based on an examination of their contents, we believe a fair description of a representative program offered by appellant is substantially as follows: The program begins with an announcement that "His Master's Voice Is On The Air," immediately followed by "The Music You Want When You Want It in a program of Victor Red Seal Records." Then comes a brief discussion of the nature of the music to be played, something of the background of the composer and the character of his work, immediately following which appropriate selections are played. At the conclusion of the program, reference is made to the fact that the music is recorded on Victor Red Seal Records, and occasionally one of those records is further identified by its album number.

Appellant contends here, as below, that such activities constitute a "service" within the meaning of sections 3, supra, and 45, infra; that the slogan used in connection therewith is therefore entitled to registration as a service mark; and that the Patent Office erred in denying its application.

In considering appellant's position, we turn to section 45 of the Trade-Mark Act of 1946 which reads as follows:

Sec. 45. Construction and definitions

* * * * * * *

Service mark. The term "service mark" means a mark used in the sale or advertising of *services* to identify the *services* of one person and distinguish them from the *services* of others and includes without limitation the marks, names, symbols, titles, designations, slogans, character names, and distinctive features of radio or other advertising used in commerce. [Italics ours.]

Prior to the enactment of the Lanham Act, no statutory authority was available to protect the owners of service marks as such. In making provision for their registration, Congress enacted section 3, supra, and to make clear its intention succinctly defined the meaning of the term in section 45, supra.

As this court stated in the case of *In re Lyndale Farm*, 38 CCPA (Patents) 825, 186 F.2d 723, 88 USPQ 377, "A trade-mark's function is to identify and distinguish a product, whereas a trade name's function is to identify and distinguish a business."

[1] We believe it equally true that Congress intended a service mark to function in such a fashion as to identify and distinguish those things of an intangible nature, such as services, in contradistinction to the protection already provided for the marks affixed to those things of a tangible nature such as goods and products. Clearly had Congress intended service marks to apply to goods or products, we believe it would have so stated.

[2] Applying that interpretation to the facts of record here, we believe the Commissioner was correct in concluding that the activities in which appellant is engaged do not constitute a service within the meaning of the involved sections but that they are primarily designed to advertise and sell its goods,[1] i. e., the records which it manufactures.

In support of that conclusion, we again refer to the radio scripts mentioned above and quote the following therefrom:

* * * * * * *

[Announcer]

His Master's Voice is on the air. The Music You Want When You Want It *in a program of RCA Victor Red Seal Records.*

* * * * * * *

* * * *This set of records, in RCA Victor Musical Masterpiece Album number 1136, will make a perfect gift for any music lover this Christmas,* * * *

* * * * * * *

Our program tonight consisted of the "Scherzo" * * * *in RCA Victor Musical Masterpiece album number 1136:* * * *

* * * * * * *

His Master's Voice is on the air. The Music You Want When You Want It *in a program of RCA Victor Red Seal Records.* * * * Fortunately, the unparalleled artistry of Heifetz *has been preserved for posterity on RCA Victor records,* * * *

* * * * * * *

All of the brilliant compositions played by Heifetz on this concert, the "Double Concerto in D Minor: . . ." "Carmen Fantasie" and "Hora Staccata," *are available on RCA Victor Red Seal records. Your dealer has them in stock now. . . . ask to hear these, and many other thrilling performances by Heifetz . . . Your dealer will be pleased to play them for you* * * *. [Italics ours.]

[1] The slogan is also affixed to the records manufactured by appellant.

Appellant contends that, in view of the length of the entire program, references to its records are so fleeting and incidental as to be unimportant. We do not agree with that contention because it is clear that the program is primarily designed to sell appellant's records, and its references thereto can be of whatever length appellant feels is best designed and most effective in stimulating the desire of listeners to purchase the records.

[3] Appellant further urges that the Patent Office is inconsistent in allowing the registration of service marks which appellant considers comparable to its own and under circumstances which appellant feels are comparable to those here. It is well settled that such contentions are not in order here. *In re The Ric-WiL Co.*, 24 CCPA (Patents) 905, 87 F.2d 516, 32 USPQ 396, and *Crime Confessions, Inc.* v. *Fawcett Publications, Inc.*, 31 CCPA (Patents) 760, 139 F.2d 499, 60 USPQ 193.

We find nothing in the other reasons advanced by appellant sufficiently convincing to justify our reversing the decision appealed from.

[4] The decision of the Commissioner is hereby affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE ZEMON

No. 5989. Decided June 17, 1953

[205 F.2d 317; 98 USPQ 223]

1. DESIGNS — INVENTION — REQUIRES UNUSUAL TALENT NOT LESS THAN IN OTHER PATENT APPLICATIONS.

Held that a patentable design "must be the result of an unusual talent, not within the reach of the ordinary artisan or designer, and the degree of invention necessary to satisfy the law in this regard is not different from that required in the consideration of other patent applications."

2. SAME—ANTICIPATION—NON-ANALOGOUS ART.

Held that the fact that a reference cited against a design patent is drawn from a non-analogous art "does not detract from the manner of its use, though it does reflect on the question of remoteness of suggestion between what it discloses and what the applicant discloses."

3. PATENTABILITY — PARTICULAR SUBJECT MATTER—DESIGN FOR SILVERWARE TRAY.

A certain design for a silverware tray *Held* properly rejected as not showing invention over the cited prior art.

APPEAL from the Patent Office. Serial No. D-4,520.

AFFIRMED.

Harness, Dickey & Pierce (*J. King Harness* of counsel) for appellant.

E. L. Reynolds (*S. Wm. Cochran* of counsel) for the Commissioner of Patents.

COLE, *J.*:

This is an appeal from the decision of the Board of Appeals affirming the Examiner's rejection of appellant's design patent claim for a silverware tray which reads as follows:

The ornamental design for tray substantially as shown.

The following statement, set forth by the Board in its opinion, concisely describes the design in question and is entirely adequate for our purposes:

> • • • appellant's tray is rectangular in outline and has a pair of partition walls extending across the tray inwardly of and parallel to the end walls to provide elongated relatively narrow compartments at opposite sides of the tray. A third partition wall extends between the first-mentioned pair of partition walls in spaced relation to one of the side walls, thereby dividing the space between the pair of partition walls into a relatively long narrow compartment and a large generally square compartment. The generally square compartment is provided with a plurality of square columns arranged in a line across the fourth compartment. These square columns or posts serve as racks for the silverware to be placed therebetween.

The appealed claim was held to be lacking in patentable design invention in view of the prior art of record, i. e., (1) the Norris, Allister-Ball-Bridges Co., "The Blue Book Store," 1930, page 519, and (2) L. C. Mayers Catalog, 1942, page 370. Both are taken from publications and are admittedly usable for reference purposes in cases of this character.

[1] Before proceeding with a discussion of the prior art, it is well to re-state the fundamental proposition that a design, to be patentable, must not only be new, original, and ornamental, but must also involve the element of inventive skill. In this latter respect, the design produced must be the result of an unusual talent, not within the reach of the ordinary artisan or designer, and the degree of invention necessary to satisfy the law in this regard is not different from that required in the consideration of other patent applications. As we stated in the recent case of *In re Jabour*, 37 CCPA (Patents) 1084, 182 F.2d 213, 86 USPQ 98, "the fourth element, exercise of the inventive faculty, is the ultimate determinant of patentability; it is said to defy definition, and its determination resides as a subjective standard in the mind of the judge considered as an 'average observer.'" With these principles in mind, and with a clear, visual impression of the applicant's design before us, we now consider the foregoing references.

The prior art relied upon by the Commissioner varies in appearance to a considerable extent from the drawing of the instant application. For instance, one is a tray for silverware and is shown in what we shall hereinafter refer to as the Norris publication. It is somewhat difficult to verbally describe the illustrations of this reference as shown in the record, but we do not deem it of sufficient importance to set them forth in the opinion. Suffice it to say that they show platforms having bases or uprights to separate different pieces of silver flatware. To this extent, the Norris publication suggests the feasibility of a single compartment in a silver tray wherein a plurality of square columns are found to reside for the purpose of serving as racks for the silver placed therein. The Mayer publication, the other cited reference, deals with a piece of luggage, and the illustrations thereof are not of sufficient import to justify reproduction in this opinion. While this reference is a complete piece of baggage containing suit hangers and, in general, fitted out as a conventional traveling case, it shows removable bottom partitions, or, as stated by the Board, "the Mayers citation discloses a generally rectangular shaped body having a plurality of partitions therein, similar to appellant's." The division by partition in the Mayer publication shows four compartments, one being square, and the others being rectangular and somewhat narrow.

From the foregoing descriptions, it may readily be said that there is a difference in appearance and actual construction between the design of the instant application and those of the references, either singly, or in combination. While a design is a matter of shape and ornamentation, and while the cited references show, in general, such a shape, the overall appearance is different. Yet, we do not believe that the design disclosed by the applicant is inventively different, though it may be conceded that applicant's tray presents a neat and trim appearance.

That proper references may be combined by the Patent Office to negative alleged design invention is well settled. It is equally well established that the mere incorporation by a designer of old forms and configurations into his design is not necessarily determinative of the issue of invention or lack of invention. [2] Whether or not a design applicant's idea stems from salient features of prior art designs is, of course, a matter of speculative appraisement. On the one hand, if what such a designer produces in the overall aspect, regardless of the source of his idea, is obviously different from anything in existence, and qualifies as an exercise of the inventive faculty, he should prevail in his efforts to secure a design patent. On the other hand, the fact that a reference cited against a design patent is drawn from a non-analogous art does not detract from the manner of its use, though it does reflect on the question of remoteness of suggestion between what it discloses and what the applicant discloses.

The matter, in its simplest form, amounts to this: Applicant has designed a tray for silverware which may be said to be new, ornamental, and somewhat original. The prior art consists of one identical feature of the instant design, a one compartment tray for silverware, as previously described, and a piece of luggage showing compartments of varying widths and lengths. In combination, the references do not present the same appearance, and furthermore the prior art as represented by the traveling case is far removed from applicant's silver tray. Nevertheless, we think it is clear that applicant's design is not of such unexpected development, when considered in the light of prior art references, as to warrant the issuance of a patent.

In the case of *In re Eppinger*, 25 CCPA (Patents) 843, 94 F.2d 401, we said: "Invention consists in something more than good draftsmanship and extended research for new appearances." It is that "something more" which is required of the applicant herein, and which we do not find. Mere differences in appearance between what an applicant discloses as his design and what is shown by the prior art does not suffice, in itself, to satisfy the requirements of the law relating to design patents. The difference must be a substantial and not a superficial one and the inventive concept must be present in the design applicant's drawing.

[3] In the final analysis, we do not believe that the applicant herein has produced a design which inventively departs from the reference publications or which required other than ordinary talent to create:

For the reasons hereinbefore stated, the decision of the Board of Appeals is affirmed.

AFFIRMED.

WORLEY, *J.*, dissents.

JACKSON, *J.*, retired, recalled to participate herein in place of GARRETT, *C. J.*

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,031,764, I. Eremeeff, Photoelectric musical system, filed Sept. 17, 1953, D. C., S. D. N. Y., Doc. 88/54, *I. Jerome v. Hammond Instrument Co.*

2,075,827. (See Re. 21,841.)

2,128,017, J. Sinko, Cigar lighter, filed Sept. 23, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1952, *Sinko Mfg. & Tool Co. v. General Motors Corp.*

2,204,228, F. H. Richterkessing, Traffic signal; 2,234,606, same, Railway preference traffic signal control; 2,213,409, L. Quillam, Traffic control system; 2,220,553, Stolp & Wagner, Time element release for control of traffic signals; 2,234,610, T. Tone, Traffic signal with electric control; 2,234,636, Stolp & Richterkessing, Control for traffic signal system, filed Sept. 22, 1953, D. C., W. D. Ky. (Louisville), Doc. 2667, *Nachod & U. S. Signal Co. v. Eastern Industries, Inc., et al.*

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2,326,854, J. E. Hassler, Method and means for sawing wood, D. C., N. D. Ill. (Chicago), Doc. 49c1233, *Borg Warner Corp. v. Mall Tool Co.* Judgment; defendant enjoined Sept. 24, 1953.

2,498,674, Graham & Yeomans, Method of winding electrical resistance wire strain gauges, D. C. Del., Doc. 1340, *Merck & Co., Inc. v. Schenley Laboratories, Inc., et al.* Consent judgment holding patent valid and infringed Sept. 23, 1953.

2,501,001, D. A. Neely, Linkage mechanism with two lifting phases, filed Sept. 22, 1953, D. C. Nebr. (Omaha), Doc. 108/53, *D. A. Neely v. Behlen Mfg. Co.*

2,507,193, F. H. Buckwalter, Penicillin product, D. C., S. D Ind. (Indianapolis), Doc. 427, *Bristol Laboratories, Inc. v. Schenley Laboratories, Inc.* Judgment holding claims 1 thru 5, 7 thru 11, 13, 14, and claims 15 thru 17 valid and infringed Sept. 24, 1953.

2,535,159, J. R. Rhinehart, Nipple attachment for feed pails, filed Sept. 17, 1953, D. C. Minn., Doc. 4674, *Rhinehart Development Corp. v. General Metalware Co. et al.*

2,545,431, P. A. Sartoretto, Method of killing weeds and the material used therein; 2,552,388, C. H. Allen, Jr., Method of killing weeds, D. C., N. D. Ill. (Chicago), Doc. 51c1359, *W. A. Cleary Corp. et al. v. Marshall Field & Co.* Charges against Marshall Field & Co. withdrawn as to 2,545,431 but to stand as to 2,552,388, Apr. 18, 1952; cause dismissed Sept. 24, 1953 (see 194 F.2 410).

2,552,388. (See 2,545,431.)

2,578,131, R. C. Gannon, Combination earth scraper and scarifier, filed Sept. 14, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15859-WM, *R. C. Gannon v. The Keystone Steel Fabricating Co. et al.*

2,602,441, Hollingsworth & Bedell, Gas burning wall heater, filed Sept. 23, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15886-WM, *Holly Mfg. Co. v. The Coleman Co., Inc.*

2,630,295, M. B. Lucker, Automobile jack, filed Sept. 18, 1953, D. C., N. D. Iowa (Dubuque), Doc. 668, *Auto Specialties Mfg. Co. v. Handler Motor Supply Co.*

2,630,897, H. Porter, Spring-finger diaphragm clutch, filed Sept. 16, 1953, D. C., S. D. Calif. (San Diego), Doc. 1549, *H. Porter v. Pittman Products.*

2,631,646, J. P. Gannon et al., Die for use in high-frequency heating, filed Sept. 18, 1953, D. C., S. D. N. Y., Doc. 86/65, *Manhattan & Electronic Die Co., Inc. v. A. & S. Steel Hole Die Corp.*

2,634,655, Knowles & Singer, Spectacle hinge structure, filed Sept. 22, 1953, D. C., S. D. N. Y., Doc. 88/85, *Bay State Optical Co. v. Hudson Optical Corp.*

Re. 21,841 (of 2,075,827), Northrop & Gesner, Anchor; T. M. 556,774, Northill Co., Inc., Marine anchor, D. C., W. D. Wash. (Seattle), Doc. 2866, *Northill Co., Inc., et al. v. Seattle Foundry Co., Inc., et al.* Reissue held valid and infringed; trade-mark "Northill" held valid, injunction (notice Sept. 22, 1953).

Des. 169,812, P. Hellman, Combined lunchbox and vacuum bottle, filed Sept. 17, 1953, D. C., S. D. N. Y., Doc. 88/50, *Hillcraft, Inc., et al. v. Joell Mfg. Co.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 129,781. (See T. M. 396,280.)

T. M. 129,782. (See T. M. 396,280.)

T. M. 344,220, Bennett Glass & Paint Co., Coloring material for paints, D. C. Calif. (Los Angeles), Doc. 12722-C, *Bennett's v. National Paint & Varnish Co. et al.* Consent judgment restraining defendants from use of word "Colortoner" (notice Sept. 21, 1953).

T. M. 389,729, Lorraine Mfg. Co., Infants' wear—blankets, bathrobes, buntings, D. C., S. D. N. Y., Doc. 74/140, *Frank Jay Markey Syndicate, Inc. v. Toby Press, Inc., et al.* Stipulation and order of discontinuance Sept. 18, 1953.

T. M. 396,280, Sondra Undergarments, Inc., Ladies' underwear; T. M. 129,781, T. M. 129,782, H. R. Mallinson & Co., Inc., Silk piece goods, D. C., S. D. N. Y., Doc. 85/221, *Sondra Undergarment Co., Inc. v. Burlington Mills Corp.* Stipulation and order of discontinuance Sept. 25, 1953.

T. M. 500,262, Lucien Lelong, Inc., Cologne, D. C., S. D. N. Y., Doc. 58/209, *Lucien Lelong, Inc.* v. *Steinway Chemists, Inc.* Stipulation and order of dismissal Sept. 18, 1953.

T. M. 508,003, American Gas Association, Inc., Heating appliances, etc., filed Sept. 17, 1953, D. C., N. D. Calif. (San Francisco), Doc. 33059, *American Gas Association* v. *Jud Whitehead Heater Co.*

T. M. 515,231, D. R. Brewer, Maps, filed Sept. 10, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15855-BH, *D. R. Brewer* v. *General Petroleum Corp. et al.*

T. M. 556,774. (See Re. 21,841.)

NOTICES

Commissioner's Administrative Order No. 45

Effective November 16, 1953, Division 10 is abolished and the following class transfers therefrom are ordered:

Class 150, Cloth, Leather and Rubber Receptacles, and Class 190, Baggage, to Division 29

Class 215, Bottles and Jars, and Class 229, Paper Receptacles, to Division 40.

ROBERT C. WATSON,
Commissioner of Patents.

Nov. 16, 1953.

Notice

The Search Room will be closed Saturdays, December 26, 1953, and January 2, 1954.

T. B. MORROW,
Executive Officer.

Adjudicated Patents

(C. A. Calif.) Lunn Patent No. 1,974,872, for a bag and method of attaching closure thereto. Claim 4 *Held* invalid. *Lunn* v. *F. W. Woolworth Company*; *F. W. Woolworth Company* v. *Lunn*, 207 F.2d 174; 98 USPQ 184.

(C. A. Fla.) Bourne Plant Patent No. 203, for sugar cane, *Held* invalid. *Bourne* v. *Jones*, 207 F.2d 173; 98 USPQ 205.

(C. A. Fla.) Bourne Plant Patent No. 210, for sugar cane, *Held* invalid. *Id.*

(C. A. Fla.) Bourne Plant Patent No. 220, for sugar cane, *Held* invalid. *Id.*

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,585,724, E. Barany and M. Sackter, Magnetic record body driving mechanism, decided Nov. 16, 1953, claims 1, 3, and 13.

Pat. 2,590,950, J. P. Eckert, Jr., and J. W. Mauchly, Signal responsive circuit, decided Nov. 17, 1953, claims 1, 2, 13, 14, and 15.

Pat. 2,619,552, Q. A. Kerns, Automatic drift corrector, decided Nov. 9, 1953, claims 1, 2, and 4.

Pat. 2,637,774, J. Avins, Keyed noise-clipping circuit, decided Nov. 18, 1953, claims 1, 2, and 3.

Disclaimers

2,523,618.—*Samuel Gilman*, Maplewood, N. J. ELECTROSTATIC APPARATUS. Patent dated Sept. 26, 1950. Disclaimer filed Nov. 19, 1953, by the assignee, *Westinghouse Electric Corporation.*

Hereby enters this disclaimer to claims 11, 15, and 16 of said patent.

2,560,124.—*Jack Mofenson*, Medford, Mass. INTERVAL MEASURING SYSTEM. Patent dated July 10, 1951. Disclaimer filed Nov. 13, 1953, by the assignee, *Raytheon Manufacturing Company.*

Hereby enters this disclaimer to claims 1, 4, 5, 6, and 9 of said patent.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Anti-heparin compound. Serial No. 650,081, Dec. 15. Class 18.

Acme Industries, Inc., Jackson, Mich. Air conditioning units. Serial No. 632,585, Dec. 15. Class 34.

Aerovox Corporation, New Bedford, Mass. Fixed electrical resistors. Serial No. 631,138, Dec. 15. Class 21.

Albers Super Markets, Inc., Cincinnati, Ohio. Fresh eggs, butter, canned fruits, etc. Serial No. 641,884, Dec. 15. Class 46.

American Chicle Company, Long Island City, N. Y. Emulsified specially prepared oleaginous material. Serial No. 648,582, Dec. 15. Class 6.

American Cyanamid Company, New York, N. Y. Finish for textile materials. Serial No. 648,465, Dec. 15. Class 6.

Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad. Aromatic bitters. Serial No. 649,273, Dec. 15. Class 46.

Ansul Chemical Company, Marinette, Wis. Portable hand and wheel-mounted fire-extinguishers. Serial No. 645,283, Dec. 15. Class 23.

Arc de Triomphe Fashions, Inc., New York, N. Y. Dresses. Serial No. 649,274, Dec. 15. Class 39.

Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio. Polymerized marine oil. Serial No. 633,829, Dec. 15. Class 6.

Arkow-Lewis Frosties Division, Philadelphia, Pa. Adhesive coated cut-outs. Serial No. 629,594, Dec. 15. Class 50.

Armour and Company, Chicago, Ill. Refined inedible fats and oils. Serial No. 644,888, Dec. 15. Class 6.

Ashkar, Albert J., Inc., Los Angeles, Calif. Fresh celery. Serial No. 646,043, Dec. 15. Class 46.

Atlantic Products Corporation, Trenton, N. J. Hand luggage. Serial No. 647,330, Dec. 15. Class 3.

Automatic Washer Company, Newton, Iowa. Domestic laundry machines. Serial No. 649,343, Dec. 15. Class 24.

Automotive Materials Corporation, Detroit, Mich. Steel bars and wire. Serial No. 641,538, Dec. 15. Class 14.

B. F. Safety Lock Mfg. Co.: *See*—
Fowler, William R.

Beaunit Mills, Inc., New York, N. Y. Synthetic textile fibers. Serial No. 636,057, Dec. 15. Class 1.

Belvil Watch Co. S. A., La Chaux-de-Fonds, Switzerland. Watches, clocks, parts of clocks and watches, etc. Serial No. 640,665, Dec. 15. Class 27.

Benson-Nuen Laboratories, Inc., New York, N. Y. Chemical preparation. Serial No. 642,519, Dec. 15. Class 6.

Berger Brothers Company, The, New Haven, Conn. Girdles and brassières. Serial No. 642,062, Dec. 15. Class 39.

Bergren, Marie, Oak Park, Ill. Reporting service for libraries. Serial No. 635,117, Dec. 15. Class 100.

Berkeley Foods: *See*—
Berkeley, M. C. St. Clair.

Berkeley, M. C. St. Clair, doing business under the trade name Berkeley Foods, Baltimore, Md. Canned foods, bottled foods. Serial No. 612,891, Dec. 15. Class 46.

Berner, Robert L., Company, Chicago, Ill. Unshelled nuts. Serial No. 612,197, Dec. 15. Class 46.

Berry Seed Company, Clarinda, Iowa. Soil. Serial No. 668,228, Dec. 15. Class 1.

Best-Built Sewing Machine Supply Co., Inc., New York, N. Y. Sewing machines. Serial Nos. 639,738-9, Dec. 15. Class 23.

Blaw-Knox Company, assignor to Blaw-Knox Company, Pittsburgh, Pa. Hydraulic power cylinders. Serial No. 637,356, Dec. 15. Class 23.

Bongards Co-operative Creamery Association, doing business also as Bongard's Creameries, Bongards, Minn. Butter, cheese, and pulverulent mixture. Serial No. 641,168, Dec. 15. Class 46.

Bongards Co-operative Creamery Association, doing business also as Bongard's Creameries, Bongards, Minn. Butter and pulverulent mixture. Serial No. 641,169, Dec. 15. Class 46.

Bongard's Creameries: *See*—
Bongards Co-operative Creamery Association.

Booth, Dr. T. O.: *See*—
Booth, Thomas O.

Booth, Thomas O., doing business as Dr. T. O. Booth, Springtown, Tex. Vermifuge and medicinal parasiticide. Serial No. 643,532, Dec. 15. Class 18.

Brownstein-Louis Company, Los Angeles, Calif. Men's overalls, jackets, and pants. Serial No. 648,366, Dec. 15. Class 39.

Burtonite Company, The: *See*—
Greenwood, Burton H.

Cameo Corporation, Chicago, Ill. Metal polish. Serial No. 645,863, Dec. 15. Class 4.

Carbonaro, Dorothy M., doing business as Vita Laboratories, Auburn, N. Y. Formula for the treatment of obesity. Serial No. 649,569, Dec. 15. Class 18.

Cardinal Engineering Corporation, Philadelphia, Pa. Diamond and abrasive wheels. Serial No. 648,840, Dec. 15. Class 4.

Carolina Aluminum Awning Company: *See*—
Mickelsen, John W.

Charleston Clay Products Company, Charleston, W. Va. Structural facing tile. Serial No. 647,264, Dec. 15. Class 12.

Chase Chemical Company, Newark, N. J. Analgetic, antispasmodic and antipyretic. Serial No. 649,212, Dec. 15. Class 18.

Chelsea Hosiery Mills, Inc., Chelsea, Mass. Ladies' hosiery. Serial No. 635,743, Dec. 15. Class 39.

Chemdrug Corporation, The, New York, N. Y. Cough preparation. Serial No. 644,541, Dec. 15. Class 18.

Chemical Specialties Co.: *See*—
Stelley, Harry A.

Cluett, Peabody & Co., Inc., Troy, N. Y. Hosiery. Serial No. 646,601, Dec. 15. Class 39.

Colwell Litho Products Inc., Minneapolis, Minn. Photographic exposure frames. Serial No. 609,230, Dec. 15. Class 26.

Combustion Engineering, Inc.: *See*—
Combustion Engineering-Superheater, Inc.

Combustion Engineering-Superheater, Inc., New York, N. Y., now by change of name Combustion Engineering, Inc. Cast iron soil pipe. Serial No. 599,816, Dec. 15. Class 13.

Commerce Manufacturing Company, Inc., Commerce, Ga. Dungarees. Serial No. 647,833, Dec. 15. Class 39.

Commerce Manufacturing Company, Inc., Commerce, Ga. Dungarees. Serial No. 647,911, Dec. 15. Class 39.

Conoflow Corporation, Philadelphia, Pa. Pneumatically controlled and actuated positioners to be attached to valves. Serial No. 621,390, Dec. 15. Class 23.

Constantine Dress Company, Boston, Mass. Women's and misses' dresses. Serial No. 648,982, Dec. 15. Class 39.

Cooper Alloy Foundry Co., The, Hillside, N. J. Castings made of stainless steel alloys. Serial No. 631,470, Dec. 15. Class 14.

Cox, Lester L., University City, Mo. Bill folds and purses. Serial No. 648,374, Dec. 15. Class 3.

Crafters of Pine Dunes: *See*—
Miller, Earl D.

Cribben and Sexton Company, Chicago, Ill. Gas-fired clothes dryer. Serial No. 622,431, Dec. 15. Class 24.

Crown Zellerbach Corporation, San Francisco, Calif. Gummed paper tape. Serial No. 644,738, Dec. 15. Class 5.

Cutisene Company, The, Santa Cruz, Calif. Skin ointment. Serial No. 601,537, Dec. 15. Class 18.

Cutler-Light Manufacturing Co.: *See*—
Cutler-Light Manufacturing Company.

Cutler Light Manufacturing Company: *See*—
Cutler-Light Manufacturing Company.

Cutler-Light Manufacturing Company, also known as Cutler-Light Manufacturing Co. and Cutler Light Manufacturing Company, Philadelphia, Pa. Cold cathode fixtures. Serial No. 632,078, Dec. 15. Class 21.

Decker, Val., Packing Company, The, Piqua, Ohio. Meat and meat products. Serial No. 638,756, Dec. 15. Class 46.

Diamond Saw Works, Inc., Buffalo, N. Y. Metal cutting saw blades and saw blade frames. Serial No. 645,470, Dec. 15. Class 23.

Dietzgen, Eugene, Co., Chicago, Ill. Measuring tapes, scales, and rules. Serial No. 647,687, Dec. 15. Class 26.

Dog House, Inc., The, Youngstown, Ohio. Restaurant services. Serial No. 638,069, Dec. 15. Class 100.

Dotty-Dan Co., Lubbock, Tex. Boys' clothes. Serial No. 638,071, Dec. 15. Class 39.

Douglas Laboratories Corporation, Miami, Fla. Suntan oils and creams. Serial No. 648,378, Dec. 15. Class 51.

Drew, E. F., & Co., Inc., New York, N. Y. Fatty acids. Serial No. 647,919, Dec. 15. Class 6.

Duntra Laboratories, New Brunswick, N. J. Cleaner. Serial No. 631,278, Dec. 15. Class 52.

Dustex Corp., Buffalo, N. Y. Industrial separators and collectors. Serial No. 648,540, Dec. 15. Class 23.

Eaton Chemical and Dyestuff Company, Detroit, Mich. Spotting preparation. Serial No. 639,162, Dec. 15. Class 52.

Eldora Underwear Co.: *See*—
Strougo, Albert.

Electrical Testing Laboratories, Inc., New York, N. Y. Fluorescent lamp ballasts. Serial No. 649,137, Dec. 15. Class 21.

Electrical Testing Laboratories, Inc., New York, N. Y. Fluorescent lamp ballasts. Serial No. 649,139, Dec. 15. Class 21.

Electrical Testing Laboratories, Inc., New York, N. Y. Electric appliances. Serial No. 649,140, Dec. 15. Class 21.

Emerson & Cuming, Inc., Canton, Mass. Casting resins. Serial No. 645,788, Dec. 15. Class 6.
Enterprise Incorporated, Dallas, Tex. Seamless paper knit bags. Serial No. 647,401, Dec. 15. Class 2.
Eshelman, John W., & Sons, Lancaster, Pa. Poultry feeds, pigeon feeds, dairy feeds, etc. Serial Nos. 647,280–1, Dec. 15. Class 46.
Factor, Max, & Co., Los Angeles and Hollywood, Calif. Make-up product. Serial No. 637,818, Dec. 15. Class 51.
Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Porous synthetic material. Serial No. 639,543, Dec. 15. Class 1.
Feature Ring Co., Inc., New York, N. Y. Gold and platinum jewelry. Serial No. 617,021, Dec. 15. Class 28.
Fisher, Oscar, Company, Inc., New York and Peekskill, N. Y. Driers. Serial No. 633,697, Dec. 15. Class 34.
Fowler, William R., doing business as B. F. Safety Lock Mfg. Co., Houston, Tex. Safety lock springs for auto steering linkage. Serial No. 618,318, Dec. 15. Class 19.
Frozen Foods Marketing Co., also known as Frozen Foods Marketing Co., Inc., San Francisco, Calif., now by change of name Hampshire Marketing Co., Inc. Fresh frozen green beans, green peas, and whole kernel corn. Serial No. 584,327, Dec. 15. Class 46.
Frozen Foods Marketing Co., Inc.: *See*—
Frozen Foods Marketing Co.
Garden State Tanning, Inc., Pine Grove, Pa. Tanned and finished leather. Serial No. 646,124, Dec. 15. Class 1.
Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial No. 648,017, Dec. 15. Class 28.
General Control Company, Boston, Mass. Electrical switches. Serial No. 632,610, Dec. 15. Class 21.
Gese, George G., trading as United Star Herb Company, Jersey City, N. J. Medicinal vegetable compound. Serial No. 648,852, Dec. 15. Class 18.
Gladding, McBean & Co., Los Angeles, Calif. Tableware. Serial No. 640,336, Dec. 15. Class 30.
Goddard, Joseph S., doing business under the name of Goddard's Fine Foods, Florence, Oreg. Soups, salad dressings, cocktail and meat sauces; etc. Serial No. 644,298, Dec. 15. Class 46.
Goddard's Fine Foods: *See*—
Goddard, Joseph S.
Goldblatt Bros. Inc., Chicago, Ill. Babies' crib sheets, and quilted mattress pads. Serial No. 639,425, Dec. 15. Class 42.
Grand Council of Gamma Phi Beta, The, Chicago, Ill. Jewelry. Serial No. 615,548, Dec. 15. Class 28.
Greenfield Tap and Die Corporation, Greenfield, Mass. Thread-cutting chasers. Serial No. 643,586, Dec. 15. Class 23.
Greenwood, Burton H., doing business under the name of The Burtonite Company, Nutley, N. J. Inedible hydrophilic colloids. Serial No. 648,395, Dec. 15. Class 6.
Griess-Pfleger Tanning Co., The, Waukegan, Ill. Side upper leather. Serial No. 648,169, Dec. 15. Class 1.
Haddon Products Company: *See*—
Vine, Benjamin.
Hafner Associates, Inc., Long Island City, N. Y. Textile fabrics. Serial No. 648,600, Dec. 15. Class 42.
Haloid Company, The, Rochester, N. Y. Developers consisting of a mixture of electroscopic powder and granular material. Serial No. 636,290, Dec. 15. Class 6.
Hampshire Marketing Co., Inc.: *See*—
Frozen Foods Marketing Co.
Healthways, Los Angeles, Calif. Water skis and bindings and harnesses for such water skis. Serial No. 626,941, Dec. 15. Class 22.
Heatbath Appliances, Inc., Indian Orchard, Springfield, Mass. Stoves and gas burners. Serial No. 643,487, Dec. 15. Class 34.
Heflin, Charlie C., doing business as Popular Products Company, Memphis, Tenn. Razor blades. Serial No. 645,988, Dec. 15, 1953. Class 23.
Hickok Manufacturing Co. Inc., Rochester, N. Y. Apparel belts. Serial No. 643,489, Dec. 15. Class 39.
Hickok Manufacturing Co. Inc., Rochester, N. Y. Apparel belts. Serial No. 647,690, Dec. 15. Class 39.
Hoffman, Charles J., York, Pa. Perforated hanger iron. Serial No. 646,394, Dec. 15. Class 13.
Hohman Plating & Mfg. Inc., Dayton, Ohio. Solid film lubricant. Serial No. 643,100, Dec. 15. Class 15.
Howard, William, Manufacturing, Inc., New York, N. Y. Metal polish. Serial No. 645,150, Dec. 15. Class 4.
Hudson Miniatures, Scranton, Pa. Toy miniature models of automobiles. Serial Nos. 648,401–2, Dec. 15. Class 22.
Hygienic Dental Manufacturing Co., The, Akron, Ohio. Receptacles for mixing plaster, investment material and impression material for the dental arts. Serial No. 648,860, Dec. 15. Class 44.
Hy-Wyd Sales Co.: *See*—
Stukenborg, Edward J.
Industrial Container Corporation, Brooklyn, N. Y. Feeding trays. Serial No. 623,144, Dec. 15. Class 2.
Industrial Products Company, Philadelphia, Pa. Safety helmets. Serial No. 644,753, Dec. 15. Class 39.
Interstate Bakeries Corporation, doing business as Schulze Baking Company and as Weber Baking Co., Kansas City, Mo., and Chicago, Ill., and elsewhere. Bread. Serial No. 618,089, Dec. 15. Class 46.
Interstate Photo Supply Corp., New York, N. Y. Photographic lenses. Serial No. 628,764, Dec. 15. Class 26.
Irvin, Robert B., doing business as Irvin Woodworking Shop, St. Petersburg, Fla. Rectangular packages of flatboard lumber and wood dowel rods for assembly into sets of shelves. Serial No. 614,832, Dec. 15. Class 32.
Irvin Woodworking Shop: *See*—
Irvin, Robert B.
Jacoby-Bender, Inc., New York, N. Y. Watch bracelets. Serial Nos. 645,713–14, Dec. 15. Class 28.
Jonas, James A., Products, Inc., New York, N. Y. Textile fibers. Serial No. 646,070, Dec. 15. Class 1.
Julian & Kokenge Company, The, Columbus, Ohio. Women's shoes. Serial No. 641,306, Dec. 15. Class 39.
Keeline-Wilcox Nurseries, Montebello, Calif. Boxes. Serial No. 647,425, Dec. 15. Class 2.
Keller Research Corporation, Detroit, Mich. Carburetors and parts therefor. Serial No. 627,264, Dec. 15. Class 23.
Kelley Manufacturing Company, Houston, Tex. Disks known in the building supply trade as "flat tin caps." Serial No. 645,155, Dec. 15. Class 13.
Kenton Pharmacal Co., The, Covington, Ky. Lipotropic vitamin and tonic preparation. Serial No. 649,159, Dec. 15. Class 18.
Kleinzway, Inc., doing business under the trade name and style of Waltco Products, Chicago, Ill. Fishing reels. Serial No. 642,757, Dec. 15. Class 22.
Krueger, W. A., Co., Milwaukee, Wis. Precision color lithographing. Serial No. 632,162, Dec. 15. Class 101.
Kuhns Brothers Company, Dayton, Ohio. Pipe fittings, drainage fittings, etc. Serial No. 640,286, Dec. 15. Class 13.
La Maur, Inc., Minneapolis, Minn. Hair dress oil, hair lacquer, permanent wave lotion, etc. Serial No. 592,767, Dec. 15. Class 51.
Lamiglas Company, Kent, Wash. Fishing rods. Serial No. 649,520, Dec. 15. Class 22.
Lamm Brothers, Inc., Baltimore, Md. Coats. Serial No. 650,055, Dec. 15. Class 39.
Leeds Travelwear Corporation, New York, N. Y. Articles of luggage. Serial No. 647,014, Dec. 15. Class 3.
Leichter, Emil, New York, N. Y. Watches. Serial No. 574,519, Dec. 15. Class 27.
Lewis and Kaufman, Inc., Los Gatos, Calif. Coated electrodes. Serial No. 632,214, Dec. 15. Class 21.
Lewis, Rosemarie, doing business as Vogarell Products Company, Los Angeles, Calif. Preparation for skin irritations. Serial No. 631,626, Dec. 15. Class 18.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 649,005, Dec. 15. Class 18.
Lincoln Engineering Company, St. Louis, Mo. Electric record changers. Serial No. 616,111, Dec. 15. Class 21.
Lind Plastic Products, Inc., Lincolnwood, Ill. Plastic wall tiles. Serial No. 648,315, Dec. 15. Class 12.
Lloyd, W. H. S., Co., Inc., New York, N. Y. Wallpaper. Serial No. 644,426, Dec. 15. Class 37.
Locks Laboratories, Inc., Mount Vernon, N. Y. Brush and comb combination. Serial No. 649,891, Dec. 15. Class 40.
Loewengart & Company, New York, N. Y. Leather. Serial Nos. 644,854–6, Dec. 15. Class 1.
Love, J. R. Celeste, Tex. Girls' and women's underwear. Serial No. 642,671, Dec. 15. Class 39.
Loewengart & Company, New York, N. Y. Tanned leather. Serial No. 648,316, Dec. 15. Class 1.
Makransky, S., & Sons, Inc., Philadelphia, Pa. Suits, coats, vests, etc. Serial No. 648,317, Dec. 15. Class 39.
Manu-Mine Research & Development Co., Reading, Pa. Roadway joint-sealing compound and water-proofing materials. Serial No. 638,090, Dec. 15. Class 12.
Mars, Incorporated, Chicago, Ill. Candy. Serial No. 649,656, Dec. 15. Class 46.
Mar-Tan Inc., New York, N. Y. Men's and boys' jackets, pajamas, outer shirts, etc. Serial No. 642,678, Dec. 15. Class 39.
Maspeth Telephone & Radio Corporation, Brooklyn, N. Y. Test equipment. Serial No. 647,304, Dec. 15. Class 26.
Mathieson Chemical Corporation, New York, N. Y. Antibiotic preparation. Serial No. 649,240, Dec. 15. Class 18.
Mathieson Chemical Corporation, Baltimore, Md. Sulphur. Serial No. 648,413, Dec. 15. Class 6.
Mays, J. W., Inc., Brooklyn, N. Y. Ladies' nylon stockings. Serial No. 648,417, Dec. 15. Class 39.
Mead Johnson & Company, Evansville, Ind. Vitamin, liver and mineral containing preparations. Serial No. 641,943, Dec. 15. Class 18.
Mearl Corporation, The, New York, N. Y. Air-entraining agents. Serial No. 637,835, Dec. 15. Class 6.
Metal Lubricants Co., Chicago, Ill. Drawing oil, cutting oil, lubricating oil and lubricating grease. Serial No. 649,805, Dec. 15. Class 15.
Mickelsen, John W., doing business under the name of Carolina Aluminum Awning Company, Greenville, S. C. Metal awnings. Serial No. 644,859, Dec. 15. Class 12.
Midcontinent Chemical Company, Grove City, Ohio. Slabs of material used in connection with making shoe soles. Serial Nos. 643,171–2, Dec. 15. Class 1.
Miller, Earl D., doing business under the name of Crafters of Pine Dunes, Costburg, Wis. Craft kits. Serial No. 639,384, Dec. 15. Class 50.
Milwaukee Gas Specialty Company, Milwaukee, Wis. Pilot burners. Serial No. 624,843, Dec. 15. Class 34.

Montmarquet, Francis H., doing business under the name of The O-C Manufacturing Co., Little Falls, N. J. Suspensories, athletic supporters, anklets, etc. Serial No. 637,496, Dec. 15. Class 44.
Motor Vehicle Research, Inc., Lee, N. H. Testing motor vehicles, and testing any component part thereof, etc. Serial No. 635,546, Dec. 15. Class 100.
National Gypsum Company, Buffalo, N. Y. Building construction materials. Serial No. 638,434, Dec. 15. Class 12
Neirad Industries, Inc., Darien, Conn. Chemical emulsions. Serial No. 643,044, Dec. 15. Class 6.
Nelson Tanning Corporation, San Antonio, Tex. Sheepskin, plasticized furs, etc. Serial No. 637,391, Dec. 15. Class 1.
Newcomb Audio Products Company, doing business as Pathfinder Electronics Company, Los Angeles, Calif. Amplifiers and public address systems and their controls. Serial No. 649,015, Dec. 15. Class 21.
Nielsen, A. C., Company, Chicago, Ill. Marketing research. Serial No. 644,512, Dec. 15. Class 101.
Norda Essential Oil & Chemical Company, Inc., New York, N. Y. Perfumes, toilet waters, sachets, etc. Serial No. 648,781, Dec. 15. Class 51.
O-C Manufacturing Co., The: *See*—
Montmarquet, Francis H.
Old Dutch Coffee Co., Incorporated, New York, N. Y. Coffee. Serial No. 635,427, Dec. 15. Class 46.
Omega Machine Company, Providence, R. I. Feeders for continuously feeding powdered or granular material by weight, etc. Serial No. 647,365, Dec. 15. Class 26.
Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Photographic cameras, telescopes, binocular field-glasses, etc. Serial No. 637,139, Dec. 15. Class 26.
Owens Metal Company, Kansas City, Mo. Forced draft evaporative air coolers and non-electric space heaters. Serial No. 648,038, Dec. 15.Class 34.
Packwood, G. H., Manufacturing Co., St. Louis, Mo. Skin cleanser. Serial No. 645,056, Dec. 15. Class 52.
Packwood, G. H., Manufacturing Co., St. Louis, Mo. Skin cleanser. Serial No. 645,065, Dec. 15. Class 52.
Pandaleon Brothers, Inc., Chicago, Ill. Dates and dried fruits. Serial No. 642,159, Dec. 15. Class 46.
Paramount Pictures Corporation, Hollywood, Calif., and elsewhere. Motion picture film. Serial No. 647,712, Dec. 15. Class 26.
Parents' Institute, Inc., The, New York, N. Y. Magazine. Serial No. 647,029, Dec. 15. Class 38.
Parfymeri Asta Aktiebolag, Stockholm, Sweden. Preparation for treating and reconditioning the hair and scalp. Serial No. 643,606, Dec. 15. Class 51.
Pate Co., The: *See*—
Pate, Walker M.
Pate, Walker M., doing business as The Pate Co., Darby, Pa. Hangers. Serial No. 647,030, Dec. 15. Class 13.
Pathfinder Electronics Company: *See*—
Newcomb Audio Products Company.
Pennzoil Company, The, Los Angeles, Calif. Motor lubricating oil. Serial No. 649,179, Dec. 15. Class 15.
Perf, Inc., assignee: *See*—
Perfume Gems, Inc.
Perfume Gems, Inc., assignor to Perf, Inc., New York, N. Y. Perfume pellets. Serial No. 630,908, Dec. 15. Class 51.
Perolin Company, Inc., The, Dover, Del., and New York, N. Y. Chemical compositions for cleansing and conditioning fluid handling and heat transfer systems. Serial No. 640,409, Dec. 15. Class 52.
Petersen Engineering Co.: *See*—
Petersen, Gerald A.
Petersen, Gerald A., doing business as Petersen Engineering Co., Santa Clara, Calif. Earth augers and parts thereof. Serial No. 645,181, Dec. 15. Class 23.
Pfeiffer, S., Manufacturing Co., St. Louis, Mo. Sedatives. Serial No. 614,839, Dec. 15. Class 18.
Phelps, Norman J., Chicago, assignor to H. B. Trotter, Evanston, Ill. Perfume, cologne, lipstick, etc. Serial No. 637,186, Dec. 15. Class 51.
Phila. Seed Co.: *See*—
Philadelphia Seed Company, The.
Philadelphia Co. Incorporated, The: *See*—
Philadelphia Seed Company, The.
Philadelphia Seed Co. Inc., The: *See*—
Philadelphia Seed Company, The.
Philadelphia Seed Co., The: *See*—
Philadelphia Seed Company, The.
Philadelphia Seed Company: *See*—
Philadelphia Seed Company, The.
Philadelphia Seed Company, Inc., The: *See*—
Philadelphia Seed Company, The.
Philadelphia Seed Company, The, (also known as Philadelphia Seed Company, The Philadelphia Seed Co. Incorporated, The Philadelphia Seed Company, Inc., The Philadelphia Seed Co. Inc., The Philadelphia Seed Co., and Phila. Seed Co.), Philadelphia, Pa. Grass seed. Serial No. 642,242, Dec. 15. Class 1.
Philadelphia Seed Company, The, also known as Philadelphia Seed Company, The Philadelphia Co. Incorporated, The Philadelphia Seed Company, Inc., The Philadelphia Seed Co. Inc., The Philadelphia Seed Co., and Phila. Seed Co., Philadelphia, Pa. Grass seed, field and agricultural seed. Serial No. 645,510, Dec. 15. Class 1.
Photographic Importing & Distributing Corp., Valley Stream, N. Y. Photographic lenses, lens caps, and the carrying cases. Serial No. 648,426, Dec. 15. Class 26.
Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial No. 641,564, Dec. 15. Class 18.
Pilot Freight Carriers, Inc., Winston-Salem, N. C. Transportation of general commodities by truck. Serial No. 641,149, Dec. 15. Class 105.
Pioneer Manufacturing Company, Inc., Wilkes-Barre, Pa. Dresses. Serial No. 649,180, Dec. 15. Class 39.
Popular Products Company: *See*—
Heflin, Charlie C.
Porter-Walton Company, Salt Lake City, Utah. Field seed. Serial No. 645,667, Dec. 15. Class 1.
Premier Knitting Co. Inc., New York, N. Y. Ladies', men's, and children's sweaters. Serial No. 627,083, Dec. 15. Class 39.
Products Research Company, Glendale, Calif. Sealing compositions, cements, putties, etc. Serial No. 635,235, Dec. 15. Class 12.
Punch Products Manufacturing Company, Chicago, Ill. Shaped pre-cut masking tapes. Serial No. 642,490, Dec. 15. Class 5.
Pyramid Rubber Company, The, Ravenna, Ohio. Electric devices. Serial Nos. 608,515–17, Dec. 15. Class 21.
Ralvan Company, San Jose, Calif. Dietary supplement. Serial No. 649,250, Dec. 15. Class 18.
Reider, S. A., & Co., New York, N. Y. Clocks. Serial No. 642,906, Dec. 15. Class 27.
Renhard, Bertil T., Seattle, Wash. Weatherstripping. Serial No. 626,959, Dec. 15. Class 12.
Republic Garment Mfg. Co., Republic, Mo. Children's dungarees. Serial No. 647,808, Dec. 15. Class 39.
Republic Garment Mfg. Co., Republic, Mo. Men's dungarees. Serial No. 647,809, Dec. 15. Class 39.
Republic Garment Mfg. Co., Republic, Mo. Women's and misses' dungarees. Serial No. 647,810, Dec. 15. Class 39.
Rice, George E., Jr., doing business as Road Patrol Auto Service, Ashtabula, Ohio. Emergency vehicle repair service. Serial No. 611,583, Dec. 15. Class 103.
Rilling Dermetics Company, New York, N. Y. Shampoo. Serial No. 638,015, Dec. 15. Class 52.
Rival Manufacturing Company, Kansas City, Mo. Perfume in the nature of a household deodorant. Serial No. 614,573, Dec. 15. Class 6.
Road Patrol Auto Service: *See*—
Rice, George E., Jr.
Rol-Fol Table, Inc., Los Angeles, Calif. Furniture. Serial No. 629,917, Dec. 15. Class 32.
Rolley: *See*—
Rolley, Inc.
Rolley, Inc., also doing business as Rolley, San Francisco, Calif. Perfume, cologne, hand cream, etc. Serial No. 630,953, Dec. 15. Class 51.
Rough Rider, Inc., Napa, Calif. Men's and boys' slacks. Serial No. 645,734, Dec. 15. Class 39.
Royal China Inc., Sebring, Ohio. Ceramic dinnerware. Serial No. 644,790, Dec. 15. Class 30.
Royal Cotton Mill Company, Saxapahaw and Wake Forest, N. C. Knitting yarns. Serial Nos. 646,314–5, Dec. 15. Class 43.
Rubber Fabrics Company, New York, N. Y. Fabric backed foam rubber padding. Serial No. 647,233, Dec. 15 Class 1.
Safride Ltd., Carson City, Nev., and Toledo, Ohio. Pneumatic shock absorbing dash tables for automobiles. Serial No. 631,439, Dec. 15. Class 19.
Sales Affiliates, Inc., New York, N. Y. Hair waving lotion Serial No. 600,309, Dec. 15. Class 51.
San Antonio Drug Company, San Antonio, Tex. Screw worm remedy. Serial No. 649,965, Dec. 15. Class 18.
Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. Serial No. 650,009, Dec. 15. Class 18.
Sanford Ink Company, Bellwood, Ill. Fluid for cleaning typewriter type, etc. Serial No. 627,602, Dec. 15. Class 52.
Sanson Hosiery Mills, Inc., Philadelphia, Pa. Women's hosiery. Serial No. 646,171, Dec. 15. Class 39.
Savage, W. J., Company, Knoxville, Tenn. Bag closing sewing machines. Serial No. 643,880, Dec. 15. Class 23.
Schulmerich Electronics, Incorporated, Sellersville, Pa. Automatic program controlled sound systems. Serial No. 648,962, Dec. 15. Class 21.
Schulze Baking Company: *See*—
Interstate Bakeries Corporation.
Seed Specialists, Inc., Pittsburgh, Pa. Grass seed. Serial No. 645,923, Dec. 15. Class 1.
Sellstrom Manufacturing Company, Chicago, Ill. Respirators. Serial No. 642,116, Dec. 15. Class 44.
Shinohara, J. H., Chula Vista, Calif. Fresh vegetables. Serial No. 592,398, Dec. 15. Class 46.
Simoniz Company: *See*—
Simoniz Company, The.
Simoniz Company, The, Chicago, Ill., now by change of name Simoniz Company. Liquid combination cleaning and polishing preparation. Serial No. 629,824, Dec. 15. Class 4.
Siris, A. J., Products Corp., New York, N. Y. Plastic place mats. Serial No. 649,255, Dec. 15. Class 50.

Smith, Chester W., doing business under the name and style of Whitfield Chemical Company, Detroit, Mich. Alkaline cleaning and stripping agent and additive to caustic solutions. Serial No. 601,472, Dec. 15. Class 52.

Smith, Lee, Company: *See*—
Smith, Lee S., & Son Manufacturing Company.

Smith, Lee S., & Son Manufacturing Company, also known as Lee Smith Company, Pittsburgh, Pa., and Chicago, Ill. Powder for use in taking dental impressions and as a corrective wash. Serial No. 638,875, Dec. 15. Class 44.

Smith, Lee S., & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Corrective wash for denture impressions. Serial No. 638,877, Dec. 15. Class 44.

Smith, Lee S., & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Dental impression cream. Serial No. 638,878, Dec. 15. Class 44.

Societe a Responsabilite Limitee: Etablissements C. B. G. Jouets, Paris (Seine), France. Small metal toy figurines. Serial No. 621,913, Dec. 15. Class 22.

Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Adhesive cements. Serial No. 633,793, Dec. 15. Class 5.

Societe Anonyme Mido, Bienne, Switzerland. Watches, clocks, and parts of clocks and watches. Serial No. 640,700, Dec. 15. Class 27.

Socony Paint Products Company, Raritan Township, Middlesex County, N. J. Ready mixed paints. Serial No. 648,967, Dec. 15. Class 16.

Southern Illinois Breeding Association, Breese, Ill. Artificial insemination of livestock. Serial No. 629,219, Dec. 15. Class 100.

Speco, Inc., Schiller Park, Ill. Meat grinder knives and meat grinder plates. Serial No. 628,228, Dec. 15. Class 23.

Spherical Bearing Corporation, Bridgeport, Conn. Self-aligning spherical bearings and self-aligning spherical rod-end bearings. Serial No. 648,203, Dec. 15. Class 23.

Steele's Pansy Gardens, Portland, Oreg. Pansy seeds and pansy plants. Serial No. 637,506, Dec. 15. Class 1.

Stelley, Harry A., doing business under the fictitious firm name and style of Chemical Specialties Co., Los Angeles, Calif. Brush and roller cleaner and softener. Serial No. 640,083, Dec. 15. Class 52.

Sterling Drug Inc., New York, N. Y. Dispersed pigment pulps. Serial No. 648,205, Dec. 15. Class 6.

Stewart Screen Company, Pasadena, Calif. All metal screen door. Serial No. 635,379, Dec. 15. Class 12.

Strongo, Albert, doing business under the name of Eldora Underwear Co., New York, N. Y. Women's, misses', and children's panties, bloomers, and drawers. Serial No. 648,439, Dec. 15. Class 39.

Strouse, Adler Company, The, New Haven, Conn. Foundation garments. Serial No. 644,934, Dec. 15. Class 39.

Stukenborg, Edward J., doing business as Hy-Wyd Sales Co., Cincinnati, Ohio. Spectacles and spectacle mountings. Serial No. 647,893, Dec. 15. Class 26.

Tailored Woman, Inc., The, New York, N. Y. Jewelry. Serial No. 646,582, Dec. 15. Class 28.

Tar Distilling Company, Inc., New York, N. Y. Carbonized coal tar. Serial No. 644,077, Dec. 15. Class 1.

Tavaro Societe Anonyme, Geneva, Switzerland. Sewing machines and attachments therefor. Serial No. 630,813, Dec. 15. Class 23.

Taylor Machine Works, Louisville, Miss. Fork lift trucks. Serial No. 634,500, Dec. 15. Class 23.

Tex Manufacturing Co., Inc., El Paso, Tex. Western jeans and jackets. Serial No. 636,949, Dec. 15. Class 39.

Tex-Son, Inc., San Antonio, Tex. Articles of wearing apparel. Serial No. 636,820, Dec. 15. Class 39.

Thornton-Trump, W. E., Oliver, British Columbia, Canada. Vehicle mounted hydraulically operated extensible and adjustable mast, etc. Serial No. 632,759, Dec. 15. Class 23.

Torch Rubber Company, Inc., New York, N. Y. Boots and overshoes. Serial No. 633,128, Dec. 15. Class 39.

Transparent Cover Company, Inc., Chicago, Ill. Tents. Serial No. 639,671, Dec. 15. Class 50.

Trotter, Hugh B., assignee: *See*—
Phelps, Norman J.

Tune, Carl, Fayetteville, Ark. Plywood boats. Serial No. 640,313, Dec. 15. Class 19.

Twentieth Century-Fox Film Corporation, New York, N. Y. Motion picture films. Serial No. 643,127, Dec. 15. Class 26.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

United Mink Producers Association, Janesville, Wis. Fur pelts. Serial No. 643,930, Dec. 15. Class 1.

United Star Herb Company: *See*—
Gese, George G.

United States Envelope Company, Springfield, Mass. Correspondence envelopes. Serial No. 632,638, Dec. 15. Class 37.

United States Plywood Corporation, New York, N. Y. Plywood adhesives. Serial No. 645,846, Dec. 15. Class 5.

Upjohn Company, The, Kalamazoo, Mich. Antibiotic ointment. Serial Nos. 649,849–50, Dec. 15. Class 18.

Utica Drop Forge & Tool Corporation, Utica, N. Y. Pliers, nippers, wrenches, snips and hand operated tools, etc. Serial No. 647,737, Dec. 15. Class 23.

Vanadium Corporation of America, New York, N. Y. Ferro-silicon. Serial No. 648,446, Dec. 15. Class 14.

Van Wert Manufacturing Co., The, Van Wert, Ohio. Overalls, work and dress shirts, service coats, etc. Serial No. 643,130, Dec. 15. Class 39.

Verona Chemical Corporation, Newark, N. J. Dyestuff intermediates and photographic and aromatic chemical compounds. Serial No. 642,858, Dec. 15. Class 6.

Victor Oolitic Stone Company, Bloomington, Ind. Oolitic limestone, and building stone. Serial No. 628,972, Dec. 15. Class 1.

Vine, Benjamin, doing business as Haddon Products Company, Haddonfield, N. J. Abrasive cloth and metal scouring pads and cloths. Serial No. 635,730, Dec. 15. Class 4.

Vita Laboratories: *See*—
Carbonaro, Dorothy M.

Vogarell Products Company: *See*—
Lewis, Rosemarie.

Walker, Madam C. J., Mfg. Co., Indianapolis, Ind. Hair dressing. Serial No. 645,939, Dec. 15. Class 51.

Waltco Products: *See*—
Kleinzway, Inc.

Ward Leonard Electric Company, Mount Vernon, N. Y. Electric lighting control apparatus. Serial No. 598,914, Dec. 15. Class 21.

Warren Tool Corporation, Howland, Ohio. Hand tools. Serial No. 637,470, Dec. 15. Class 23.

Weber Baking Co.: *See*—
Interstate Bakeries Corporation.

Whitfield Chemical Company: *See*—
Smith, Chester W.

Wickford Fabrics Corp., New York, N. Y. Screening. Serial No. 646,339, Dec. 15. Class 13.

Wilson Jones Company, Chicago, Ill. Staples. Serial No. 617,174, Dec. 15. Class 13.

Wilson Manufacturing Company, Incorporated, Wichita Falls, Tex., and elsewhere. Winches, drilling rigs, and power hoists. Serial No. 626,226, Dec. 15. Class 23.

Winans, C. G., Company, Newark, N. J. Bath salt. Serial No. 644,942, Dec. 15. Class 51.

Winner, Inc., Berne, Ind. Waistbands for slacks, and men's and boys' slacks. Serial No. 628,177, Dec. 15. Class 39.

Wofford, Lloyd O., San Diego, Calif. Water softener compositions. Serial No. 642,440, Dec. 15. Class 6.

Zip Abrasive Company, The, Cleveland, Ohio. Liquid moisture-repellent coating material. Serial No. 580,112, Dec. 15. Class 16.

Zonta International, Chicago, Ill. Club badges, pins, and finger rings. Serial No. 622,663, Dec. 15. Class 28.

LIST OF REGISTRANTS OF TRADE-MARKS

Abinante & Nola Packing Co., by Abinante & Nola Packing Co., Inc., San Jose, Calif. Dried fruits, canned fruits, canned vegetables. 435,842, Jan. 13, 1948. Republished Dec. 15. Class 46.

Abinante & Nola Packing Co., Inc.: *See*—
Abinante & Nola Packing Co.

Acme-Evans Company, Indianapolis, Ind., now by change of name, Acme-Evans Company, Inc. Prepared cake flour and prepared cookie flour. 583,562, Dec. 15; Serial No. 571,103, published Apr. 18, 1950. Class 46.

Acme-Evans Company, Inc.: *See*—
Acme-Evans Company.

Acock, Robert H., Austin, Tex. Sulphur. 583,757, Dec. 15; Serial No. 642,253. Class 6.

Ainsworth Manufacturing Corporation, Detroit, Mich. Structural materials. 583,604, Dec. 15; Serial No. 626,721, published Sept. 22, 1953. Class 12.

Akron Accordian Center: *See*—
Musarra, Rosario.

Alliance Valve Company: *See*—
Hively, Vern J.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electrical overload indicators. 583,595, Dec. 15; Serial No. 623,697, published July 14, 1953. Class 26.

American Electro Metal Corporation, Yonkers, N. Y. Bearing structures. 583,600, Dec. 15; Serial No. 624,922, published July 21, 1953. Class 23.

American Name Plate & Manufacturing Company, Chicago, Ill. Etched and lithographed metal name plates. 583,586, Dec. 15; Serial No. 612,365, published Sept. 1, 1953. Class 50.

American Viscose Corporation, Philadelphia, Pa. Colored photographic film. 583,598, Dec. 15; Serial No. 624,380, published July 28, 1953. Class 26.

Ames Company, Inc., Elkhart, Ind. Pharmaceutical preparation. 583,689, Dec. 15; Serial No. 643,265, published Aug. 18, 1953. Class 18.

Arnold, Constable & Co., Inc., to Arnold Constable Corporation New York, N. Y. Corsets, brassières, girdles, etc. 307,096, renewed Oct. 17, 1953. O. G. Dec. 15. Class 39.

Arnold Constable Corporation: *See*—
Arnold, Constable & Co., Inc.

Aro Equipment Corporation, The, Bryan, Ohio. Automotive and industrial lubricating equipment. 583,712, Dec. 15; Serial No. 644,532, published Sept. 8, 1953. Class 13.

Arthur-Sampson Enterprises, Inc., Cincinnati, Ohio. Entertainment services. 583,739, Dec. 15; Serial No. 641,161, published Sept. 22, 1953. Class 107.

Asch, A., Incorporated, New York, N. Y. House organ type publication. 583,678, Dec. 15; Serial No. 642,338, published Sept. 1, 1953. Class 38.

Ashley Bait Co.: *See*—
Ashley, Joyce D.

Ashley, Joyce D., doing business under the names Cotton Ashley and Ashley Bait Co., Macksville, Kans. Canned fish bait. 583,710, Dec. 15; Serial No. 644,382, published Aug. 25, 1953. Class 22.

Associated Dye & Print Co. Inc., Paterson, N. J. Treating textile fabrics of manufacturers. 583,741, Dec. 15; Serial No. 641,664, published Sept. 22, 1953. Class 106.

Atlanta Stove Works, Inc., Atlanta, Ga. Portable grill. 583,639, Dec. 15; Serial No. 638,390, published Aug. 4, 1953. Class 34.

Autosphere Corporation, New York, N. Y. Apparatus for testing the operating characteristics including acceleration and deceleration of a vehicle. 583,642, Dec. 15; Serial No. 638,466, published July 28, 1953. Class 26.

Avonshire Knitting Mills, Inc., Philadelphia, Pa. Sweaters. 583,630, Dec. 15; Serial No. 636,194, published July 28, 1953. Class 39.

Azoplate Corporation, Summit, N. J. Pre-sensitized plates. 583,657, Dec. 15; Serial No. 640,141, published Aug. 11, 1953. Class 26.

Baker Brush Co. Inc., New York, N. Y. Paint brushes. 306,027, renewed Sept. 5, 1953. O. G. Dec. 15. Class 29.

Baltimore Salvage Co., Inc.: *See*—
Baltimore Salvage Company.

Baltimore Salvage Company, to Baltimore Salvage Co., Inc., Baltimore, Md. Ready mixed paints, varnishes, and prepared shellacs. 307,711, renewed Oct. 31, 1953. O. G. Dec. 15. Class 16.

Baltimore-Washington Childrens Wear Show, Inc., Baltimore, Md. Advertising the goods of others. 583,734, Dec. 15; Serial No. 599,925, published Sept. 15, 1953. Class 101.

Bank of America National Trust and Savings Association, San Francisco, Calif. Commercial, savings, loan and trust department banking services. 583,738, Dec. 15; Serial No. 635,627, published Sept. 15, 1953. Class 102.

Bantam Books, Inc., New York, N. Y. Books. 583,702, Dec. 15; Serial No. 644,094, published Sept. 1, 1953. Class 38.

Bastian-Blessing Company, The, Chicago, Ill. Equipment for welding, cutting, brazing etc. 583,556–7, Dec. 15; Serial Nos. 549,872–3, published Aug. 11, 1953. Class 34.

Bastian-Blessing Company, The, Chicago, Ill. Equipment for welding, cutting, brazing, etc. 583,559, Dec. 15; Serial No. 564,014, published Aug. 11, 1953. Class 34.

Bastian-Blessing Company, The, Chicago, Ill. Equipment for welding, cutting, brazing, etc. 583,567, Dec. 15; Serial No. 590,484, published Aug. 25, 1953. Class 34.

Bear Manufacturing Company, Rock Island, Ill. Device comprising essentially a platform, an aligning mechanism and a viewing screen for testing and checking wheel alignment of automotive and other vehicles propelled on wheels. 583,596, Dec. 15; Serial No. 623,868, published July 28, 1953. Class 26.

Beatrice Foods Co.: *See*—
Creameries of America, Inc.

Bell & Howell Company, Chicago, Ill. Motion picture film. 583,758, Dec. 15; Serial No. 648,479. Class 26.

Bemis Bro. Bag Company, St. Louis, Mo. Bags. 583,574, Dec. 15; Serial No. 599,360, published Sept. 22, 1953. Class 2.

Binney & Smith Company, New York, N. Y. Water color brushes. 583,636, Dec. 15; Serial No. 637,262, published Sept. 22, 1953. Class 29.

Binswanger-Henkin Industries, Memphis, Tenn. Garbage cans. 502,451, Sept. 28, 1948. Amended. O. G. Dec. 15. Class 2.

Bogan, Felix K., Plantsville, Conn. Rubber sponge floor mops. 583,594, Dec. 15; Serial No. 623,588, published Sept. 15, 1953. Class 29.

Bonney Forge & Tool Works, Allentown, Pa. Mechanics' hand tools. 370,527, Aug. 29, 1939. Republished Dec. 15. Class 23.

Booth Fisheries Corporation, Chicago, Ill. Fresh and frozen shrimp. 583,683, Dec. 15; Serial No. 642,935, published Sept. 22, 1953. Class 46.

Booth Fisheries Corporation, Chicago, Ill. Fresh and frozen shrimp. 583,694, Dec. 15; Serial No. 643,460, published Sept. 22, 1953. Class 46.

Bourjois, Inc., to Barbara Gould, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 310,211, renewed Feb. 13, 1954. O. G. Dec. 15. Class 51.

Bourke, Holland & Miller, Inc., New York, N. Y., now by change of name Envoys, Incorporated. Advertising services. 583,733, Dec. 15; Serial No. 596,069, published Sept. 15, 1953. Class 101.

Bouthilet-Gray Laboratories, Inc., St. Paul, Minn. Fresh eggs. 583,605, Dec. 15; Serial No. 626,190, published Aug. 25, 1953. Class 46.

Boyle-Midway Inc.: *See*—
Wells & Richardson Company.

Brantford Cordage Company, Limited, The, Brantford, Canada. Twine. 583,671, Dec. 15; Serial No. 642,911, published Aug. 4, 1953. Class 7.

Brewer & Company, Inc., Worcester, Mass. Sodium-free effervescent antacid. 583,756, Dec. 15; Serial No. 639,012. Class 18.

Bridge, Beach & Co.: *See*—
Clawson, H. R.

Brooks, Betty, Co., Huntington Park, Calif. Men's and boys' sweat shirts, sweat pants, gym shirts, etc. 583,638, Dec. 15; Serial No. 637,749, published June 30, 1953. Class 39.

Buffington's, Incorporated, Worcester, Mass. Eye lotion. 423,065, Aug. 20, 1946. Republished Dec. 15. Class 18.

Buffington's, Incorporated, Worcester, Mass. Medicinal throat lozenge. 423,066, Aug. 20, 1946. Republished Dec. 15. Class 18.

Buffington's, Incorporated, Worcester, Mass. Diallylbarbituric acid, used as a medicinal sedative. 424,741, Oct. 22, 1946. Republished Dec. 15. Class 18.

Buffington's, Incorporated, Worcester, Mass. External medicinal application. 425,594, Nov. 26, 1946. Republished Dec. 15. Class 18.

Buffington's, Incorporated, Worcester, Mass. Internal medication. 426,958, Jan. 21, 1947. Republished Dec. 15. Class 18.

Burberrys, to Burberrys Limited, London, England. Suits, overcoats, shirts, etc. 93,819, re-renewed Oct. 21, 1953. O. G. Dec. 15. Class 39.

Burberrys Limited: *See*—
Burberrys.

Burndy Engineering Company, Inc., New York, N. Y. Publication. 583,569, Dec. 15; Serial No. 595,824, published Sept. 1, 1953. Class 38.

Butereg Company, Inc., The, Pampa, Tex., and Kansas City, Mo. Bread. 583,572, Dec. 15; Serial No. 598,571, published Aug. 18, 1953. Class 46.

California Goat Dairymen's Assn., Inc., Modesto, Calif. Evaporated goat milk. 583,720, Dec. 15; Serial No. 645,228, published Sept. 1, 1953. Class 46.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Compounds used as soil amendments and soil correctives. 583,651, Dec. 15; Serial No. 638,831, published Sept. 22, 1953. Class 10.

Carter-Neal Inc., assignee: *See*—
Foster, Melville E.

Cast Iron Soil Pipe Institute, The, Washington, D. C. Cast iron soil pipe and pipe fittings. 583,743, Dec. 15; Serial No. 644,732, published Sept. 22, 1953. Class 13.

Central Press Association, Inc., to The Hearst Corporation, New York, N. Y. Newspaper section. 309,150, renewed Jan. 2, 1954. O. G. Dec. 15. Class 38.

Chesebrough Manufacturing Company, Consolidated, New York, N. Y. Lubricating oil. 93,425, re-renewed Sept. 16, 1953. O. G. Dec. 15. Class 15.

Clawson, H. R., doing business as Bridge, Beach & Co., San Francisco, Calif. Gas ranges, gas space heaters, coal or wood ranges, etc. 583,561, Dec. 15; Serial No. 569,052, published Aug. 4, 1953. Class 34.

Cleveland Mill and Power Company, by Cleveland Mills Company, Lawndale, N. C. Mercerized crochet cotton, twine for needle work, embroidery thread, etc. 308,747, Dec. 19, 1933. Republished Dec. 15. Class 43.

Cleveland Mills Company: *See*—
Cleveland Mill and Power Company.

Cloquet Creamery, Cloquet, Minn. Ice cream. 305,452, Aug. 15, 1933. Republished Dec. 15. Class 46.

Colonial Provision Co., Inc., Boston, Mass. Hams, shoulders, bacon, and frankfurters. 307,590, Oct. 31, 1933. Republished Dec. 15. Class 46.

Colonial Sales Corporation, Columbus and Worthington, Ohio. Paint bucket supporting bracket. 583,685, Dec. 15; Serial No. 643,030, published Sept. 15, 1953. Class 13.

Commercial Solvents Corporation, New York, N. Y. Antibiotic anesthetic troches. 583,695, Dec. 15; Serial No. 643,536, published Aug. 25, 1953. Class 18.

Companhia Industrial de Conservas Alimenticias "Cica," Sao Paulo, Brazil. Candies, prepared edible chocolate, cocoa, alimentary pastes, etc. 583,570, Dec. 15; Serial No. 596,899, published Aug. 18, 1953. Class 46.

Consolidated Badger Cooperative, doing business as Consolidated Badger, Inc., Shawano, Wis. Non-fat dry milk solids. 583,602, Dec. 15; Serial No. 625,368, published Sept. 22, 1953. Class 46.

Consolidated Badger, Inc.: *See*—
Consolidated Badger Cooperative.

Consolidated Cosmetics, Chicago, Ill., assignor, by mesne assignments, to Les Parfums de Dana, Inc., New York, N. Y. Beauty shop services. 583,731, Dec. 15; Serial No. 529,749, published Sept. 15, 1953. Class 100.

Contina Bureaux- und Rechenmaschinenfabrik Aktiengesellschaft, Mauren, Liechtenstein. Calculating machines, go and no-go O. D. (outside diameter) gauges, cross gauges, etc. 583,577, Dec. 15; Serial No. 603,713, published July 28, 1953. Class 26.

Continental Casualty Company, Chicago, Ill. Underwriting of group health and accident insurance. 583,740, Dec. 15; Serial No. 641,175, published Sept. 15, 1953. Class 102.

Co-Operative League of the United States of America Assoc., The, New York, N. Y., and Chicago, Ill. Pamphlets, monthly magazines, printed books, etc. 163,710, Jan. 23, 1923. Republished Dec. 15. Class 38.

Cotton Ashley. *See*—
Ashley, Joyce D.

Creameries of America, Inc., Los Angeles, Calif., to Beatrice Foods Co., Chicago, Ill. Ice cream. 351,093, Oct. 19, 1937. New certificate. O. G. Dec. 15. Class 46.

Creameries of America, Inc., doing business as Valleymaid Creameries, Los Angeles, Calif., to Beatrice Foods Co., Chicago, Ill. Ice cream. 443,621, Dec. 13, 1949. New certificate. O. G. Dec. 15. Class 46.

Crisfield, Edmund C., Gorham, N. Y. Fish landing net. 583,662, Dec. 15; Serial No. 640,850, published Aug. 25, 1953. Class 22.

Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier, Fils Aine et Cie), Paris, France. Alcoholic cordials. 583,591, Dec. 15; Serial No. 617,713, published July 21, 1953. Class 49.

Dahl, George W., Company, Inc., Bristol, R. I. Globe valves, return valves, angle valves, etc. 583,629, Dec. 15; Serial No. 636,167, published Sept. 8, 1953. Class 13.

Dan River Mills, Incorporated: *See*—
Riverside & Dan River Cotton Mills, Inc.

Dance Records, Inc., New York, N. Y. Grooved phonograph records. 583,625, Dec. 15; Serial No. 635,349, published Sept. 22, 1953. Class 36.

De Kuyper, John, & Son, Rotterdam, Netherlands, to John De Kuyper & Son, Incorporated, New York, N. Y. Gin. 95,547, re-renewed Feb. 24, 1954. O. G. Dec. 15. Class 49.

De Kuyper, John, & Son, Rotterdam, Netherlands, to John De Kuyper & Son, Incorporated, New York, N. Y. Gin. 310,057, renewed Feb. 13, 1954. O. G. Dec. 15. Class 49.

De Kuyper, John, & Son, Incorporated: *See*—
De Kuyper, John, & Son.

Delanium Carbon Corporation, New York, N. Y. Heat exchangers. 583,648–9, Dec. 15; Serial Nos. 638,757–8, published Aug. 4, 1953. Class 34.

Dell Publishing Company, Inc., New York, N. Y. Magazine. 583,721, Dec. 15; Serial No. 645,234, published Sept. 15, 1953. Class 38.

Distaso, Frank, Los Angeles, Calif. Tallying device particularly adapted to the recording of egg production, etc. 583,746, Dec. 15; Serial No. 593,654. Class 26.

Dixie Dee Dresses, Inc., New York, N. Y. Ladies', misses', and junior misses' dresses. 502,202, Sept. 14, 1948. Canceled Nov. 6, 1953. O. G. Dec. 15. Class 39.

Draper & Emerick, Pittsburgh, Pa. Nuts and bolts, wood screws, nails, etc. 583,646, Dec. 15; Serial No. 638,701, published Sept. 22, 1953. Class 13.

Dresser Stacey Company, Columbus, Ohio. Metallic cable racks. 583,640–1, Dec. 15; Serial Nos. 638,406–7, published Sept. 22, 1953. Class 13.

Duofold, Inc., Mohawk, N. Y. Men's underwear. 583,631, Dec. 15; Serial No. 636,413, published July 28, 1953. Class 39.

Eastern Television Productions: *See*—
Lederach, Franklin L.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Vacuum diffusion pump fluids. 581,066, Oct. 13, 1953. Corrected. O. G. Dec. 15. Class 6.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Motion picture projectors, and projection screens. 583,661, Dec. 15; Serial No. 640,788, published July 7, 1953. Class 26.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Vitamin compounds and vitamin preparations. 583,696, Dec. 15; Serial No. 643,668, published Aug. 25, 1953. Class 18.

Easy Washing Machine Corporation, Syracuse, N. Y. Laundry washing machines. 309,759, renewed Jan. 30, 1954. O. G. Dec. 15. Class 24.

Empire Manufacturing Company, Denver, Colo. Girls' and dolls' lingerie. 583,580, Dec. 15; Serial No. 607,803, published July 28, 1953. Class 39.

Envoys, Incorporated: *See*—
Bourke, Holland & Miller, Inc.

Factor, Max, & Co., Hollywood, Calif. Cosmetics. 583,745, Dec. 15; Serial No. 588,756. Class 51.

Flat Metal Manufacturing Company, Franklin Park, Ill. Shower cabinets. 583,713, Dec. 15; Serial No. 644,749, published Sept. 22, 1953. Class 13.

Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural and synthetic food flavorings. 583, 568, Dec. 15; Serial No. 594,263, published Aug. 4, 1953. Class 46.

Firmenich, Incorporated, assignee: *See*—
Firmenich & Co.

Flodar Corporation, Cleveland, Ohio. Metal hydraulic tube fittings. 583,682, Dec. 15; Serial No. 642,923, published Sept. 15, 1953. Class 13.

Foremost Dairies, Inc., Jacksonville, Fla. Fresh milk, buttermilk, sour cream, etc. 583,609, Dec. 15; Serial No. 630,001, published Sept. 15, 1953. Class 46.

Foster, Melville E., Minneapolis, Minn., assignor to Carter-Neal Inc., Indianapolis, Ind. Parts charts. 583,617, Dec. 15; Serial No. 632,669, published Sept. 1, 1953. Class 38.

Fraternity of Phi Gamma Delta, The, Washington, D. C. Organizing of chapters and alumni groups in a national fraternity, etc. 583,737, Dec. 15; Serial No. 633,287, published Sept. 15, 1953. Class 100.

Fruit Growers Express Company, Washington, D. C. House magazine. 583,722, Dec. 15; Serial No. 645,240, published Sept. 8, 1953. Class 38.

Gamma Records, Inc., St. Louis, Mo. Grooved phonograph records. 583,716, Dec. 15; Serial No. 644,969, published Sept. 22, 1953. Class 36.

General Controls Co., Glendale, Calif. Voltmeters; thermostats with electrical contacts, etc. 583,558, Dec. 15; Serial No. 553,842, published Aug. 4, 1953. Class 26.

Gernsback, Hugo, New York, N. Y. Quarterly publication. 305,558, Aug. 22, 1933. Amended. O. G. Dec. 15. Class 38.

Glorion Corporation of America, Beverly Hills, Calif. Facial oil. 583,566, Dec. 15; Serial No. 587,437, published Sept. 22, 1953. Class 51.

Gould, Barbara, Inc.: *See*—
Bourjois, Inc.

Graphic Publishing Co., Inc., Hasbrouck Heights, N. J. Books. 583,723, Dec. 15; Serial No. 645,242, published Sept. 8, 1953. Class 38.

Griffin Baking Company: *See*—
Griffin, Howard L.

Griffin, Howard L., doing business under the trade name of Griffin Baking Company, Greensboro, N. C. Baked and fried pies. 583,726–7, Dec. 15; Serial Nos. 646,711–12, published Sept. 8, 1953. Class 46.

Haas Brothers: *See*—
Lilienthal, Benjamin P.

Halo-Star Corporation, Oak Park, Ill. Personal photographs. 583,563, Dec. 15; Serial No. 581,260, published Sept. 8, 1953. Class 38.

Hancock, Henry, trading as Rieger Organs, New York, N. Y. Reed and pipe organs. 583,655, Dec. 15; Serial No. 639,755, published Sept. 8, 1953. Class 36.

Harlis, Incorporated, Miami, Fla. Books. 583,635, Dec. 15; Serial No. 637,126, published Sept. 8, 1953. Class 38.

Harvard Manufacturing Company, The, Cleveland, Ohio. Brackets for use in securing bed headboards to bedframes. 583,718, Dec. 15; Serial No. 645,146, published Sept. 22, 1953. Class 13.

Hearst Corporation, The: *See*—
Central Press Association, Inc.
King Features Syndicate, Inc.

Hechinger Company: *See*—
Hechinger, Sidney L.

Hechinger, Sidney L., trading as Hechinger Company, Washington, D. C. Door and garage door hardware other than locks; cabinet, chest, and cupboard hardware, etc. 583,622, Dec. 15; Serial No. 633,980, published Sept. 8, 1953. Class 13.

Helms Bakeries, Los Angeles, Calif. Publication. 583,666, Dec. 15; Serial No. 641,297, published Sept. 8, 1953. Class 38.

Helms Bakeries, Los Angeles, Calif. Monthly publication. 583,667, Dec. 15; Serial No. 641,299, published Sept. 1, 1953. Class 38.

Hinds, A. S., Co., to Lehn & Fink Products Corporation, Bloomfield, N. J. Creams, emulsions, and liquid lotions for the face, etc. 310,545, renewed Feb. 27, 1954. O. G. Dec. 15. Class 51.

Hirschman, Al B., doing business as Hirschman Laboratories, to M. Hirschman, San Pedro, Calif. Preparation for the relief of headache, neuralgia, congestion, etc. 310,463, renewed Feb. 27, 1954. O. G. Dec. 15. Class 18.

Hirschman Laboratories: *See*—
Hirschman, Al B.

Hirschman, Maude: *See*—
Hirschman, Al B.

Hively, Vern J., doing business as Alliance Valve Company, Alliance, Ohio. Valves. 583,632, Dec. 15; Serial No. 636,479, published Sept. 15, 1953. Class 13.

Hohner, M., Inc., New York, N. Y. Harmonicas. 583,643, Dec. 15; Serial No. 638,581, published Sept. 15, 1953. Class 36.

Hohner, M., Inc., New York, N. Y. Harmonicas. 583,652, Dec. 15; Serial No. 638,852, published Sept. 8, 1953. Class 36.

Hohner, M., Inc., New York, N. Y. Harmonicas. 583,656, Dec. 15; Serial No. 639,933, published Sept. 22, 1953. Class 36.

Holloway, M. J., & Co., Chicago, Ill. Candy. 583,725, Dec. 15; Serial No. 645,709, published Sept. 15, 1953. Class 46.

Horecny, Laslo, Seaside, Oreg. Wooden shingles and shakes. 583,611, Dec. 15; Serial No. 630,711, published Sept. 15, 1953. Class 12.

Houston Chronicle Publishing Co., The, Houston, Tex. Daily newspaper. 583,697, Dec. 15; Serial No. 643,686, published Sept. 1, 1953. Class 38.

Houston Packing Company, Houston, Tex. Hams, picnics, Boston butts, etc. 309,381, renewed Jan. 9, 1954. O. G. Dec. 15. Class 46.

Howard Company, Inc., The, Indianapolis, Ind. Technical manuals and replacement sheets therefor. 583,650, Dec. 15; Serial No. 638,770, published Sept. 15, 1953. Class 38.

Howard Manufacturing Corporation, Council Bluffs, Iowa. Waterproof and airproof bags. 583,670, Dec. 15; Serial No. 641,725, published Aug. 18, 1953. Class 2.

Hygiene Research, Inc., New York, N. Y. Chemically treated polishing cloths. 583,724, Dec. 15; Serial No. 645,417, published Sept. 8, 1953. Class 29.

International Milling Company, Minneapolis, Minn. Wheat flour. 583,703, Dec. 15; Serial No. 644,305, published Sept. 22, 1953. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour. 583,704, Dec. 15; Serial No. 644,306, published Sept. 15, 1953. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour, barley flour, rye flour, etc. 583,705, Dec. 15; Serial No. 644,308, published Sept. 15, 1953. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour. 583,706, Dec. 15; Serial No. 644,314, published Sept. 15, 1953. Class 46.

International Milling Company, Minneapolis, Minn. Wheat flour. 583,707–9, Dec. 15; Serial Nos. 644,317–19, published Sept. 15, 1953. Class 46.

International Rolling Mill Products Corporation, Chicago, Ill. Electrical metallic tubing and standard conduits. 583,659–60, Dec. 15; Serial Nos. 640,643–4, published Sept. 1, 1953. Class 21.

Ivano Inc., by Simoniz Company, Chicago, Ill. Preparation in the form of a paste used to clean, preserve, and beautify automobiles and other coated and finished surfaces, etc. 365,365, Mar. 7, 1939. Republished Dec. 15. Classes 16 and 52.

Jergens, Andrew, Company, The, Cincinnati, Ohio. Perfume. 558,039, Apr. 22, 1952. Canceled Nov. 6, 1953. O. G. Dec. 15. Class 51.

Kanium Corporation, Chicago, Ill. Expanded and spherulized clay products. 583,637, Dec. 15; Serial No. 637,447, published Sept. 22, 1953. Class 12.

King Features Syndicate, Inc., to The Hearst Corporation, New York, N. Y. Newspaper section. 309,216, renewed Jan. 9, 1954. O. G. Dec. 15. Class 38.

King Features Syndicate, Inc., to The Hearst Corporation, New York, N. Y. Newspaper cartoons. 309,290, renewed Jan. 9, 1954. O. G. Dec. 15. Class 38.

Knudsen Creamery Co. of California, Los Angeles, Calif. Dairy products. 583,584, Dec. 15; Serial No. 611,438, published Nov. 4, 1952. Class 46.

Kuner-Empson Company, Brighton, Colo. Canned vegetables and canned fruits. 583,554, Dec. 15; Serial No. 538,767, published Aug. 25, 1953. Class 46.

Lambert Company, The, St. Louis, Mo. Medicated mouthwash. 583,688, Dec. 15; Serial No. 643,232, published Aug. 18, 1953. Class 18.

Lambert, Marion, Inc., St. Louis, Mo., to Pearson Pharmacal Company, Inc., New York, N. Y. Deodorant and non-perspirant. 308,455, renewed Dec. 5, 1953. O. G. Dec. 15. Class 51.

Lambert, Marion, Inc., St. Louis, Mo., to Pearson Pharmacal Company, Inc., New York, N. Y. Deodorant and non-perspirant. 308,910, renewed Dec. 26, 1953. O. G. Dec. 15. Class 51.

Lambert, Marion, Inc., St. Louis, Mo., to Pearson Pharmacal Company, Inc., New York, N. Y. Finger nail polish, finger nail polish remover, and hand lotion. 310,519, renewed Feb. 27, 1954. O. G. Dec. 15. Class 51.

Laminated Veneers Co., Richmond Hill, N. Y. Table tops. 583,658, Dec. 15; Serial No. 640,570, published Sept. 15, 1953. Class 32.

Lancer Shirt Company, Los Angeles, Calif. Men's sport and dress outer shirts. 583,618, Dec. 15; Serial No. 633,110, published July 28, 1953. Class 39.

Las-Stik Manufacturing Co., The, Hamilton, Ohio. Polishing cloths. 583,729–30, Dec. 15; Serial Nos. 648,111–12, published Sept. 22, 1953. Class 29.

Lavino, E. J., and Company, Philadelphia, Pa. Ground dry refractory product. 583,590, Dec. 15; Serial No. 617,257, published Sept. 15, 1953. Class 12.

Lederach, Franklin L., doing business as Eastern Television Productions, Philadelphia, Pa. Entertainment service. 583,742, Dec. 15; Serial No. 646,144, published Sept. 22, 1953. Class 107.

Lehn & Fink Products Corporation: *See*—
Hinds, A. S., Co.

Lelong, Lucien, Inc., Chicago, Ill. Cologne. 500,262, May 11, 1948. Canceled Nov. 2, 1953. O. G. Dec. 15. Class 51, (formerly Class 6).

Lentz, John R., trading as Lentz Novelty Co., Philadelphia, Pa. Utility racks. 583,564, Dec. 15; Serial No. 581,270, published Sept. 15, 1953. Class 13.

Lentz Novelty Co.: *See*—
Lentz, John R.

Les Disques de France, Paris, France. Grooved phonograph records. 583,585, Dec. 15; Serial No. 611,574, published Sept. 15, 1953. Class 36.

Les Parfums de Dana, Inc., assignee: *See*—
Consolidated Cosmetics.

Liberty Garment Manufacutring Co., Minneapolis, Minn. Men's and boys' overcoats, topcoats, and stormcoats. 552,293, Dec. 18, 1951. Canceled Nov. 2, 1953. O. G. Dec. 15. Class 39.

Lilienthal, Benjamin P., to Haas Brothers, San Francisco, Calif. Whiskey. 310,242, renewed Feb. 13, 1954. O. G. Dec. 15. Class 49.

Linguaphone Institute Limited, London, England. Motion picture films for reproducing sound and speech for teaching languages. 583,750, Dec. 15; Serial No. 610,367. Class 26.

Livingston Seed Company, The, Columbus, Ohio. Garden, flower, and field seeds. 50,530, Mar. 20, 1906. Republished Dec. 15. Class 1.

Lucky Strike Perfumeries Corporation, New York, N. Y. Beauty cream, brilliantine, dusting powder, etc. 583,597, Dec. 15; Serial No. 624,041, published Sept. 15, 1953. Class 51.

Lufkin Rule Company, The, Saginaw, Mich. Micrometers. 583,744, Dec. 15; Serial No. 571,907. Class 26.

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Sweet milk. 308,818, renewed Dec. 19, 1953. O. G. Dec. 15. Class 46.

Maureen Manufacturing Company, Chicago, Ill. Collapsible hats. 583,593, Dec. 15; Serial No. 622,161, published July 28, 1953. Class 39.

McKesson & Robbins, Incorporated: *See*—
Prybrands, Inc.

McNaught Syndicate, Inc., The, New York, N. Y. Daily and Sunday comic strip. 583,676, Dec. 15; Serial No. 642,293, published Sept. 1, 1953. Class 38.

McNaught Syndicate, Inc., The, New York, N. Y. Daily and Sunday newspaper feature. 583,692, Dec. 15; Serial No. 643,431, published Sept. 15, 1953. Class 38.

Medicone Company: *See*—
Medicone Company, Inc.

Medicone Company, Inc., to Medicone Company, New York, N. Y. Pills, tablets, capsules, etc. 309,074, renewed Jan. 2, 1954. O. G. Dec. 15. Class 18.

Mellowes Company, The, Milwaukee, Wis. Washers. 583,628, Dec. 15; Serial No. 636,137, published Sept. 15, 1953. Class 13.

Midland Wire Corporation, Tiffin, Ohio. Polyethylene insulated electric wires and cables. 583,672, Dec. 15; Serial No. 642 040, published Sept. 1, 1953. Class 21.

Midland Wire Corporation, Tiffin, Ohio. Neoprene insulated electric wires and cables. 583,673, Dec. 15; Serial No. 642,041, published Sept. 1, 1953. Class 21.

Midwest Plywood Company, Detroit, Mich. Wall board. 583,576, Dec. 15; Serial No. 602,327, published Sept. 15, 1953. Class 12.

Miller Manufacturing Co., Inc., St. Paul, Minn. Automatic poultry fountains. 583,613, Dec. 15; Serial No. 631,560, published Sept. 8, 1953. Class 13.

Modern Displays, Detroit, Mich. Printed decalcomanias. 583,624, Dec. 15; Serial No. 634,153, published Sept. 15, 1953. Class 38.

Mohn, Howard C., Hosiery Co.: *See*—
O'Callaghan & Fedden.

Moran Shoe Company, by Moran Shoe Company, Carlyle, Ill. Infants' and children's shoes. 385,591, Mar. 11, 1941. Republished Dec. 15. Class 39.

Musarra, Rosario, doing business under the name Akron Accordian Center, Akron, Ohio. Grooved phonograph records. 583,621, Dec. 15; Serial No. 633,476, published Sept. 22, 1953. Class 36.

N. V. Gerofabriek, Zeist, Netherlands. Base metal ware. 583,620, Dec. 15; Serial No. 633,265, published Sept. 22, 1953. Class 13.

N. V. Kamper Emaillefabriken v/h H. Berk & Zoon, Kampen, Netherlands. Enamelled, tinned and aluminum household articles. 583,588, Dec. 15; Serial No. 613,693, published Sept. 22, 1953. Class 13.

Nashua Manufacturing Company, Boston, Mass. Blankets. 372,008, Oct. 17, 1939. Amended. O. G. Dec. 15. Class 42.

National Tinsel Manufacturing Company, Manitowoc, Wis. Christmas tree decorations. 583,663, Dec. 15; Serial No. 641,077, published Sept. 1, 1953. Class 50.

New England Mop Co., Central Falls, R. I. Wool dust mop. 583,589, Dec. 15; Serial No. 616,441, published Sept. 22, 1953. Class 29.

Nichols, W. H., Company: *See*—
Nichols, W. H., & Sons.

Nichols, W. H., & Sons, by W. H. Nichols Company, Waltham, Mass. Hand milling machines and lubrication pumps. 428,051, Mar. 11, 1947. Republished Dec. 15. Class 23.

Nordby, Roger M., Evanston, Ill. Radios. 583,690, Dec. 15; Serial No. 643,356, published Sept. 8, 1953. Class 21.

Northwest Publications, Inc., St. Paul, Minn. Publication. 583,719, Dec. 15; Serial No. 645,214, published Sept. 8, 1953. Class 38.

Northwestern Steel and Wire Company, Sterling, Ill. Wire cloth. 583,571, Dec. 15; Serial No. 597,692, published Sept. 22, 1953. Class 13.

O'Callaghan & Fedden, New York, N. Y., to Howard C. Mohn Hosiery Co., Reading, Pa. Stockings. 95,138, re-renewed Feb. 3, 1954. O. G. Dec. 15. Class 39.

Old Colony Knitting Mills, Inc., Hingham, Mass. Ladies', misses' and children's sweaters. 583,579, Dec. 15; Serial No. 604,446, published Aug. 4, 1953. Class 39.

Olympia Büromaschinenwerke A. G., Wilhelmshaven, Germany. Calculating machines. 583,599, Dec. 15; Serial No. 624,521, published July 14, 1953. Class 26.

Pacific Coast Fruit Distributors, by Pacific Coast Fruit Distributors, Inc., Los Angeles, Calif. Fresh citrus fruit. 428,170, Mar. 11, 1947. Republished Dec. 15. Class 46.

Pacific Coast Fruit Distributors, Inc.: *See*— Pacific Coast Fruit Distributors.

Pancordion, Inc., New York, N. Y. Musical instruments. 583,614, Dec. 15; Serial No. 632,438, published Sept. 15, 1953. Class 36.

Paragon Oil Company, Inc., Brooklyn, N. Y. Lubricating oil. 583,686, Dec. 15; Serial No. 643,059, published Aug. 18, 1953. Class 15.

Paslode Company, Chicago, Ill. Staples. 583,717, Dec. 15; Serial No. 645,004, published Sept. 22, 1953. Class 13.

Pearl Brewing Company: *See*— San Antonio Brewing Association.

Pearson Pharmacal Company, Inc.: *See*— Lambert, Marion, Inc.

Peerless Electric Company, The, Warren, Ohio. Electric fan-motors, power-motors, exhaust-fans, etc. 94,027, re-renewed Oct. 28, 1953. O. G. Dec. 15. Class 21.

Peerless Foundry Company, The, Indianapolis, Ind. Warm air furnaces, gas burners, oil burners, etc. 583,606, Dec. 15; Serial No. 626,904, published Aug. 11, 1953. Class 34.

Pennsylvania Range Boiler Co., Philadelphia, Pa. Domestic water heaters. 583,680, Dec. 15; Serial No. 642,769, published Aug. 4, 1953. Class 34.

Perfecting Service Company, Chicago, Ill. Rotary unions etc. 556,788, Mar. 25, 1952. Corrected. O. G. Dec. 15. Class 13.

Perk Foods Co.: *See*— Ready Foods Company, Inc.

Perla, Raimondo, Rome, Italy. Dye for hair and beard. 583,608, Dec. 15; Serial No. 628,776, published Sept. 15, 1953. Class 51.

Peters Bros. Rubber Co. Inc.: *See*— Peters Brothers.

Peters Brothers, Brooklyn, to Peters Bros. Rubber Co. Inc., New York, N. Y. Lining-cloth. 95,469, re-renewed Feb. 17, 1954. O. G. Dec. 15. Class 42.

Petivan, Arthur J., Jr., doing business as Sunset Music Publications, New Orleans, La. Grooved phonograph records. 583,654, Dec. 15; Serial No. 639,588, published Sept. 22, 1953. Class 36.

Pharma-Craft Corporation, The, New York, N. Y. Deodorant mouth wash. 583,582, Dec. 15; Serial No. 608,378, published Aug. 25, 1953. Class 51.

Pharma-Craft Corporation, The, New York, N. Y. Medicinal mouth wash. 583,583, Dec. 15; Serial No. 608,765, published Aug. 25, 1953. Class 18.

Piatt Products Corporation, Lansing, Mich. Constant level oil control valve. 583,714, Dec. 15; Serial No. 644,783, published Sept. 22, 1953. Class 13.

Pinnacle Packing Co., Inc., Medford, Oreg. Fresh deciduous fruits. 308,039, renewed Nov. 21, 1953. O. G. Dec. 15. Class 46.

Pittsburgh Pipe and Coupling Company, Allison Park, Pa. Metal pipes and pipe fittings. 380,080, Aug. 6, 1940. Republished Dec. 15. Class 13.

Poe, E. Holley, Associates: *See*— Poe, Robert M.

Poe, Robert M., doing business as E. Holley Poe Associates, Stamford, Conn. Periodical publications. 583,679, Dec. 15; Serial No. 642,489, published Sept. 15, 1953. Class 38.

Poloris Company, Inc., New York, N. Y., to Poloris Company, Inc., Jersey City, N. J. Poultices, and tablets for the relief of pain and colds. 310,006, renewed Feb. 6, 1954. O. G. Dec. 15. Class 18.

Porter, H. K., Inc., Everett, to H. K. Porter, Inc., Somerville, Mass. Wood cutting tool. 310,125, renewed Feb. 13, 1954. O. G. Dec. 15. Class 23.

Post Printing and Publishing Company, The, Denver, Colo. Daily newspaper. 583,626, Dec. 15; Serial No. 635,433, published Sept. 15, 1953. Class 38.

Pompko, Morris, doing business under the name and style of Williamstown Hosiery Mills, Williamstown, N. J. Hosiery and slips, panties, underwear, etc. 583,633, Dec. 15; Serial No. 636,733, published July 28, 1953. Class 39.

Pražský Průmysl Masný, Národní Podnik, Prague, Czechoslovakia. Canned cooked ham. 583,752, Dec. 15; Serial No. 622,908. Class 46.

Procter & Gamble Company, The, Cincinnati, Ohio. Vegetable shortening. 307,630, renewed Oct. 31, 1953. O. G. Dec. 15. Class 46.

Procter & Gamble Company, The, Cincinnati, Ohio. Permanent waving kit. 583,587, Dec. 15; Serial No. 612,522, published Sept. 22, 1953. Class 51.

Prybrands, Inc., Long Island City, to McKesson & Robbins, Incorporated, New York, N. Y. Razors and razor blades. 306,285, renewed Sept. 12, 1953. O. G. Dec. 15. Class 23.

Pure Oil Company, The, Chicago, Ill. Services rendered to automotive vehicles. 583,732, Dec. 15; Serial No. 581,890, published Apr. 28, 1953. Class 103.

Puro Co., Inc., The, St. Louis, Mo. Deodorizer for refrigerators. 307,156, renewed Oct. 17, 1953. O. G. Dec. 15. Class 6.

Ready Foods Company, Inc., by Perk Foods Co., Chicago, Ill. Canned dog food. 354,755, Feb. 22, 1938. Republished Dec. 15. Class 46.

Refractory & Insulation Corporation, New York, N. Y. Cast and castable refractories; bonding and patching mortars, etc. 583,578, Dec. 15; Serial No. 603,747, published Sept. 22, 1953. Class 12.

Rheem Manufacturing Company, Richmond, Calif. Gas water heaters. 583,684, Dec. 15; Serial No. 642,995, published Aug. 18, 1953. Class 34.

Rieger Organs: *See*— Hancock, Henry.

Riverside & Dan River Cotton Mills, Inc., to Dan River Mills, Incorporated, Danville, Va. Cotton broadcloth shirting. 308,292, renewed Nov. 28, 1953. O. G. Dec. 15. Class 42.

Roma Tex Brix Co., Portland, Oreg. Bricks. 583,603, Dec. 15; Serial No. 626,118, published Sept. 15, 1953. Class 12.

Rose, E. W., Company, The, Cleveland, Ohio. Soap. 188,812, Sept. 2, 1924. Republished Dec. 15. Class 52.

Rose, E. W., Company, The, Cleveland, Ohio. Preparation for the skin and scalp, and an ointment. 191,482, Nov. 11, 1924. Republished Dec. 15. Class 18.

Rosenbloom, Harry S., Chicago, Ill. Three-dimensional construction toy. 583,644, Dec. 15; Serial No. 638,664, published Aug. 25, 1953. Class 22.

Round, David, & Son, Cleveland, Ohio. Trolleys, cranes, winches, etc. 583,575, Dec. 15; Serial No. 601,642, published Aug. 4, 1953. Class 23.

San Antonio Brewing Association, by Pearl Brewing Company, San Antonio, Tex. Malt beverages. 315,873, Aug. 14, 1934. Republished Dec. 15. Class 48.

San Antonio Brewing Association, by Pearl Brewing Company, San Antonio, Tex. Malt beverages. 315,875, Aug. 14, 1934. Republished Dec. 15. Class 48.

Scenic Citrus Cooperative, Frostproof, Fla. Fresh citrus fruits, canned citrus fruits, etc. 583,581, Dec. 15; Serial No. 607,870, published June 2, 1953. Class 46.

Schenley Laboratories, Inc., New York, N. Y. Cortisone acetate compound. 583,698, Dec. 15; Serial No. 644,068, published Sept. 8, 1953. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Combination of a sedative and enhedrine. 583,699, Dec. 15; Serial No. 644,070, published Sept. 22, 1953. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Somnifacient product. 583,700, Dec. 15; Serial No. 644,071, published Sept. 22, 1953. Class 18.

Schwab & Frank Inc., Detroit, Mich. Extruded thermoplastic materials. 583,610, Dec. 15; Serial No. 630,214, published Mar. 10, 1953. Class 1.

Shriver, B. F., Company, The, Westminster, Md. Canned vegetables, canned tomato juice, and green tomato pickle. 583,555, Dec. 15; Serial No. 541,592, published Sept. 8, 1953. Class 46.

Simoniz Company: *See*— Ivano Inc.

Sinclair, H. M., Jr., trustee for the Ohio partnership, The Sinclair Manufacturing Company, Toledo, Ohio. Liquid synthetic compound adapted for household and general cleaning purposes. 544,236, June 26, 1951. Corrected. O. G. Dec. 15. Class 52.

Sinclair Manufacturing Company, The: *See*— Sinclair, H. M., Jr.

Smith, F., & Co. (Whitworth) Limited, Rochdale, England. Electrical driving units. 583,665, Dec. 15; Serial No. 641,213, published Sept. 8, 1953. Class 21.

Societe Commerciale des Produits du Petrole, Paris, (Seine), France. Lubricating oil. 583,693, Dec. 15; Serial No. 643,437, published Aug. 25, 1953. Class 15.

Southern Biscuit Company: *See*— Weston Biscuit Company Inc.

Sprague Electric Company, North Adams, Mass. Electrical condensers. 583,751, Dec. 15; Serial No. 621,428. Class 21.

Standard Brands Incorporated, New York N. Y. Instant coffee. 583,681, Dec. 15; Serial No. 642,779, published Sept. 22, 1953. Class 46.

Standard Brands Incorporated, New York, N. Y. Coffee. 583,711, Dec. 15; Serial No. 644,463, published Sept. 22, 1953. Class 46.

Standard Brands Incorporated, New York, N. Y. Acid salt. 583,755, Dec. 15; Serial No. 636,501. Class 46.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Starting fuel. 583,674, Dec. 15; Serial No. 642,174, published Aug. 18, 1953. Class 15.

Stavert Company, Inc., The, Cambridge, Mass. Picture hangers. 583,668, Dec. 15; Serial No. 641,525, published Sept. 22, 1953. Class 13.

Step Laboratories: *See*— Stepanian, John.

Stepanian, John, doing business as Step Laboratories, West New York, N. J. Control valves for gas burners and blow torches. 583,592, Dec. 15; Serial No. 619,269, published Aug. 25, 1953. Class 34.

Stern Brothers, New York, N. Y. Books. 583,653, Dec. 15; Serial No. 639,503, published Sept. 1, 1953. Class 38.

Stone, Bob, Cordage Company, The, Charlton, Iowa. Binder twine and baler twine. 583,677, Dec. 15; Serial No. 642,317, published July 28, 1953. Class 7.

Sun Oil Company, Philadelphia, Pa. Lubricating oils. 583,728, Dec. 15; Serial No. 647,563, published Sept. 29, 1953. Class 15.

Sunset Music Publications: *See*— Petivan, Arthur J., Jr.

Swarovski, D., Glasfabrik und Tyrolit-Schleifmittel-Werke, Wattens, Tirol, Austria. Light reflectors. 583,573, Dec. 15; Serial No. 598,934, published Aug. 18, 1953. Class 34.

Technicon Chromatography Corporation, New York, N. Y. Automatically operable apparatus for collecting fractions or samples of predetermined volume of liquids in a plurality of receptacles. 583,747, Dec. 15; Serial No. 597,363. Class 26.

Tennison Brothers, Incorporated, Memphis, Tenn., and Texarkana, Ark. Half round roofing gutter, O. G. roofing gutter, square box roofing gutter, etc. 583,634, Dec. 15; Serial No. 637,091, published Sept. 22, 1953. Class 12.

Tourinns, Incorporated, New York, N. Y. Lodgings for guests in motor courts. 583,735–6, Dec. 15; Serial Nos. 618,065–6, published Sept. 15, 1953. Class 100.

Trailercoach Dealers National Association, Chicago, Ill. Magazine. 583,715, Dec. 15; Serial No. 644,810, published Sept. 1, 1953. Class 38.

United American Metals Corporation, Brooklyn, N. Y. Movable machinery for heating and pouring metals prior to casting same. 583,565, Dec. 15; Serial No. 582,584, published Aug. 25, 1953. Class 34.

United Growers, Inc., Salem, Oreg. Canned fruits, canned vegetables, canned berries, etc. 583,627, Dec. 15; Serial No. 635,860, published Sept. 22 1953. Class 46.

Universal Pictures Company, Inc., New York, N. Y. Series of stereoscopic motion picture films. 583,669, Dec. 15; Serial No. 641,532, published July 21, 1953. Class 26.

V. & E. Manufacturing Co., Pasadena, Calif. Drafting ruling pens. 583,749, Dec. 15; Serial No. 609,749. Class 26.

Valleymaid Creameries: *See*— Creameries of America, Inc.

Vance Industries, Inc., Evanston, Ill. Frames supporting brackets, and clamps. 583,687, Dec. 15; Serial No. 643,198, published Sept. 15, 1953. Class 13.

Vox Productions, Inc., New York, N. Y. Grooved phonograph records. 583,647, Dec. 15; Serial No. 638,749, published Sept. 22, 1953. Class 36.

Wagner, W., Jr., Gesellschaft mit beschränkter Haftung, Plettenberg, Germany. Tuning-pins for pianos. 583,645, Dec. 15; Serial No. 638,678, published Sept. 22, 1953. Class 36.

Walker-Neer Machine Company, Wichita Falls, Tex. Spudders, clean-out machines, rotary rigs, etc. 583,748, Dec. 15; Serial No. 598,694. Class 23.

Walrus Products, New York, N. Y. Fishing tackle. 583,701, Dec. 15; Serial No. 644,081, published Aug. 25, 1953. Class 22.

Weill, Raphael, & Company, San Francisco, Calif. Clothing. 369,866, Aug. 8, 1939. Republished Dec. 15. Class 39.

Wells & Richardson Company, Burlington, Vt., to Boyle-Midway Inc., New York, N. Y. Dyes. 92,493, re-renewed July 8, 1953. O. G. Dec. 15. Class 6.

Weltronic Company, Southfield Township, Oakland County, and Detroit, Mich. Monthly publication. 583,616, Dec. 15; Serial No. 632,578, published Sept. 1, 1953. Class 38.

Western Chemical Company, St. Joseph, Mo. Cleaner. 307,294, renewed Oct. 24, 1953. O. G. Dec. 15. Class 52.

Western Packing Corporation, New York, N. Y. Corned beef hash. 374,554, Jan. 16, 1940. Canceled Nov. 2, 1953. O. G. Dec. 15. Class 46.

Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Cakes, cookies, and crackers. 583,612, Dec. 15. Serial No. 631,030, published Aug. 25, 1953. Class 46.

White Laboratories, Inc., Kenilworth, N. J. Ear drops. 583,691, Dec. 15; Serial No. 643,390, published Aug. 25, 1953. Class 18.

Whitney Screw Corporation, Nashua, N. H. Wood screws. 583,615, Dec. 15; Serial No. 632,542, published Sept. 15, 1953. Class 13.

Whittaker, Wm. R., Co., Ltd., Los Angeles, Calif. Control valves. 583,619, Dec. 15; Serial No. 633,131, published Sept. 8, 1953. Class 13.

Wicks Organ Company, Highland, Ill. Pipe organs. 583,560, Dec. 15; Serial No. 568,091, published Sept. 15, 1953. Class 36.

Willapoint Oysters Incorporated, Seattle, Wash. Canned raw oysters and canned cooked oysters. 304,644, renewed July 11, 1953. O. G. Dec. 15. Class 46.

Williamstown Hosiery Mills: *See*— Poupko, Morris.

Willson Products, Inc., Reading, Pa. Ophthalmic mountings and parts thereof. 583,664, Dec. 15; Serial No. 641,109, published July 21, 1953. Class 26.

Wilson Products Company, Salt Lake City, Utah. Gravy mix, potato salad, macaroni salad, etc. 583,607, Dec. 15; Serial No. 627,365, published Sept. 22, 1953. Class 46.

Winthrop-Stearns Inc., New York, N. Y. Preparation for aerosol inhalation. 583,675, Dec. 15; Serial No. 642,193, published Aug. 18, 1953. Class 18.

Wolf Foods, Inc., Kansas City, Mo. Soya lecithin. 583,601, Dec. 15; Serial No. 625,380, published Sept. 22, 1953. Class 46.

Wolverine Knitting Mills, Bay City, Mich. Blouses, underwear and sleeping garments. 583,623, Dec. 15; Serial No. 634,131, published July 28, 1953. Class 39.

Zylite Products Co., Inc., New York, N. Y. Eyeglass frames. 583,753–4, Dec. 15; Serial Nos. 629,136–7. Class 26.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Extruded thermoplastic materials. Schwab & Frank Inc. 583,610, Dec. 15; Serial No. 630,214, published Mar. 10, 1953.

Seeds, Garden, flower, and field. The Livingston Seed Company. 50,530, Mar. 20, 1906. Republished Dec. 15.

CLASS 2

Bags. Bemis Bro. Bag Company. 583,574, Dec. 15; Serial No. 599,360, published Sept. 22, 1953.

Bags, Waterproof and airproof. Howard Manufacturing Corporation. 583,670, Dec. 15; Serial No. 641,725, published Aug. 18, 1953.

Cans, Garbage. Binswanger-Henkin Industries. 502,451, Sept. 28, 1948. Amended. O. G. Dec. 15.

CLASS 6

Deodorizer for refrigerators. The Puro Co., Inc. 307,156, renewed Oct. 17, 1953. O. G. Dec. 15.

Dyes. Wells & Richardson Company. 92,493, re-renewed July 8, 1953. O. G. Dec. 15.

Sulphur. R. H. Acock. 583,757, Dec. 15; Serial No. 642,253.

Vacuum diffusion pump fluids. Eastman Kodak Company. 581,066, Oct. 13, 1953. Corrected. O. G. Dec. 15.

CLASS 7

Twine. The Brantford Cordage Company, Limited. 583,671, Dec. 15; Serial No. 642,011, published Aug. 4, 1953.

Twine, Binder, and baler twine. The Bob Stone Cordage Company. 583,677, Dec. 15; Serial No. 642,317, published July 28, 1953.

CLASS 10

Compounds used as soil amendments and soil correctives. California Spray-Chemical Corporation. 583,651, Dec. 15; Serial No. 638,831, published Sept. 22, 1953.

CLASS 12

Board, Wall. Midwest Plywood Company. 583,576, Dec. 15; Serial No. 602,327, published Sept. 15, 1953.

Bricks. Roma Tex Brix Co. 583,603, Dec. 15; Serial No 626,118, published Sept. 15, 1953.

Cast and castable refractories; bonding and patching mortars, etc. Refractory & Insulation Corporation. 583,578, Dec. 15; Serial No. 603,747, published Sept. 22, 1953.

Clay products, Expanded and spherulized. Kanium Corporation. 583,637, Dec. 15; Serial No. 637,447, published Sept. 22, 1953.

Ground dry refractory product. E. J. Lavino and Company. 583,590, Dec. 15; Serial No. 617,257, published Sept. 15, 1953.

Roofing gutter, Half round, O. G. roofing gutter, square box roofing gutter, etc. Tennison Brothers, Incorporated. 583,634, Dec. 15; Serial No. 637,091, published Sept. 22, 1953.

Shingles and shakes, Wooden. L. Horecny. 583,611, Dec. 15; Serial No. 630,711, published Sept. 15, 1953.

Structural materials. Ainsworth Manufacturing Corporation. 583,604, Dec. 15; Serial No. 626,721, published Sept. 22, 1953.

CLASS 13

Automotive and industrial lubricating equipment. The Aro Equipment Corporation. 583,712, Dec. 15; Serial No. 644,532, published Sept. 8, 1953.

Base metal ware. N. V. Gerofabriek. 583,620, Dec. 15; Serial No. 633,265, published Sept. 22, 1953.

Bracket, Paint bucket supporting. Colonial Sales Corporation. 583,685, Dec. 15; Serial No. 643,030, published Sept. 15, 1953.

Brackets for use in securing bed headboards to bedframes. The Harvard Manufacturing Company. 583,718, Dec. 15; Serial No. 645,146, published Sept. 22, 1953.

Cast iron soil pipe and pipe fittings. The Cast Iron Soil Pipe Institute. 583,743, Dec. 15; Serial No. 644,732, published Sept. 22, 1953.

Door and garage door hardware other than locks; cabinet, chest, and cupboard hardware, etc. S. L. Hechinger. 583,622, Dec. 15; Serial No. 633,980, published Sept. 8, 1953.

Enamelled, tinned and aluminium household articles. N. V. Kamper Emaillefabriken v/h H. Berk & Zoon. 583,588, Dec. 15; Serial No. 613,693, published Sept. 22, 1953.

Fountains, Automatic poultry. Miller Manufacturing Co., Inc. 583,613, Dec. 15; Serial No. 631,560, published Sept. 8, 1953.

Frames, supporting brackets, and clamps. Vance Industries, Inc. 583,687, Dec. 15; Serial No. 643,198, published Sept. 15, 1953.

Hangers, Picture. The Stavert Company, Inc. 583,668, Dec. 15; Serial No. 641,525, published Sept. 22, 1953.

Metallic cable racks. Dresser Stacey Company. 583,640–1, Dec. 15; Serial Nos. 638,406–7, published Sept. 22, 1953.

Nuts and bolts, wood screws, nails, etc. Draper & Emerick. 583,646, Dec. 15; Serial No. 638,701, published Sept. 22, 1953.

Pipes, Metal, and pipe fittings. Pittsburgh Pipe and Coupling Company. 380,080, Aug. 6, 1940. Republished Dec. 15.

Racks, Utility. J. R. Lentz. 583,564, Dec. 15; Serial No. 581,270, published Sept. 15, 1953.

Rotary unions, etc. Perfecting Service Company. 556,788, Mar. 25, 1952. Corrected. O. G. Dec. 15.

Screws, Wood. Whitney Screw Corporation. 583,615, Dec. 15; Serial No. 632,542, published Sept. 15, 1953.

Shower cabinets. Flat Metal Manufacturing Company. 583,713, Dec. 15; Serial No. 644,749, published Sept. 22, 1953.

Staples. Paslode Company. 583,717, Dec. 15; Serial No. 645,004, published Sept. 22, 1953.

Tube fittings, Metal hydraulic. Flodar Corporation. 583,682, Dec. 15; Serial No. 642,923, published Sept. 15, 1953.

Valve, Constant level oil control. Platt Products Corporation. 583,714, Dec. 15; Serial No. 644,783, published Sept. 22, 1953.

Valves. V. J. Hively. 583,632, Dec. 15; Serial No. 636,479, published Sept. 15 1953.

Valves, Control. Wm. R. Whittaker Co., Ltd. 583,619, Dec. 15; Serial No. 633,131, published Sept. 8, 1953.

Valves, Globe, return valves, angle valves, etc. George W. Dahl Company, Inc. 583,629, Dec. 15; Serial No. 636,167, published Sept. 8, 1953.

Washers. The Mellowes Company. 583,628, Dec. 15; Serial No. 636,137, published Sept. 15, 1953.

Wire cloth. Northwestern Steel and Wire Company. 583,571, Dec. 15; Serial No. 597,692, published Sept. 22, 1953.

CLASS 15

Fuel, Starting. Standard Oil Company of California. 583,674, Dec. 15; Serial No. 642,174, published Aug. 18, 1953.

Oil, Lubricating. Consolidated Chesebrough Manufacturing Company. 93,425, re-renewed Sept. 16, 1953. O. G. Dec. 15.

Oil, Lubricating. Paragon Oil Company, Inc. 583,686, Dec. 15; Serial No. 643,059, published Aug. 18, 1953.

Oil, Lubricating. Societe Commerciale des Produits du Petrole. 583,693, Dec. 15; Serial No. 643,437, published Aug. 25, 1953.

Oils, Lubricating. Sun Oil Company. 583,728, Dec. 15; Serial No. 647,563, published Sept. 29, 1953.

CLASS 16

Paints, Ready mixed, varnishes, and prepared shellacs. Baltimore Salvage Company. 307,711, renewed Oct. 31, 1953. O. G. Dec. 15.

Preparation in the form of a paste used to clean, preserve, and beautify automobiles and other coated and finished surfaces, etc. Ivano Inc. 365,365, Mar. 7, 1939. Republished Dec. 15.

CLASS 18

Antibiotic anesthetic troches. Commercial Solvents Corporation. 583,695, Dec. 15; Serial No. 643,536, published Aug. 25, 1953.

Combination of a sedative and ephedrine. Schenley Laboratories, Inc. 583,699, Dec. 15; Serial No. 644,070, published Sept. 22, 1953.

Cortisone acetate compound. Schenley Laboratories, Inc. 583,698, Dec. 15; Serial No. 644,068, published Sept. 8, 1953.

Diallylbarbituric acid, used as a medicinal sedative. Buffington's, Incorporated. 424,741, Oct. 22, 1946. Republished Dec. 15.

Ear drops. White Laboratories, Inc. 583,691, Dec. 15; Serial No. 643,390, published Aug. 25, 1953.

Eye lotion. Buffington's, Incorporated. 423,065, Aug. 20, 1946. Republished Dec. 15.

Internal medication. Buffington's, Incorporated. 426,958, Jan. 21, 1947. Republished Dec. 15.

Medicated mouthwash. The Lambert Company. 583,688, Dec. 15; Serial No. 643,232, published Aug. 18, 1953.

Medicinal application, External. Buffington's, Incorporated. 425,594, Nov. 26, 1946. Republished Dec. 15.

Medicinal mouth wash. The Pharma-Craft Corporation. 583,583, Dec. 15; Serial No. 608,765, published Aug. 25, 1953.

Medicinal throat lozenge. Buffington's, Incorporated. 423,066, Aug. 20, 1946. Republished Dec. 15.

Pharmaceutical preparation. Ames Company, Inc. 583,689, Dec. 15; Serial No. 643,265, published Aug. 18, 1953.

Pills, tablets, capsules, etc. Medicone Company, Inc. 309,074, renewed Jan. 2, 1954. O. G. Dec. 15.

Poultices, and tablets for the relief of pain and colds. Poloris Company, Inc. 310,006, renewed Feb. 6, 1954. O. G. Dec. 15.

Preparation for aerosol inhalation. Winthrop-Stearns Inc. 583,675, Dec. 15; Serial No. 642,193, published Aug. 18, 1953.

Preparation for the relief of headache, neuralgia, congestion, etc. A. B. Hirschman. 310,463, renewed Feb. 27, 1954. O. G. Dec. 15.

Preparation for the skin and scalp, and an ointment. The E. W. Rose Company. 191,482, Nov. 11, 1924. Republished Dec. 15.

Sodium-free effervescent antacid. Brewer & Company, Inc. 583,756, Dec. 15; Serial No. 639,012.

Somnifacient product. Schenley Laboratories, Inc. 583,700, Dec. 15; Serial No. 644,071, published Sept. 22, 1953.

Vitamin compounds and vitamin preparations. Eastman Kodak Company. 583,696, Dec. 15; Serial No. 643,668, published Aug. 25, 1953.

CLASS 21

Electric fan-motors, power-motors, exhaust-fans, etc. The Peerless Electric Company. 94,027, re-renewed Oct. 28, 1953. O. G. Dec. 15.

Electric wires and cables, Neoprene insulated. Midland Wire Corporation. 583,673, Dec. 15; Serial No. 642,041, published Sept. 1, 1953.

Electric wires and cables, Polyethylene insulated. Midland Wire Corporation. 583,672, Dec. 15; Serial No. 642,040, published Sept. 1, 1953.

Electrical condensers. Sprague Electric Company. 583,751, Dec. 15; Serial No. 621,428.

Electrical driving units. F. Smith & Co. (Whitworth) Limited. 583,665, Dec. 15; Serial No. 641,213, published Sept. 8, 1953.

Electrical metallic tubing and standard conduits. International Rolling Mill Products Corporation. 583,659–60, Dec. 15; Serial Nos. 640,643–4, published Sept. 1, 1953.

Radios. R. M. Nordby. 583,690, Dec. 15; Serial No. 643,356, published Sept. 8, 1953.

CLASS 22

Fish bait, Canned. J. D. Ashley. 583,710, Dec. 15; Serial No. 644,382, published Aug. 25, 1953.

Fish landing net. E. C. Crisfield. 583,662, Dec. 15; Serial No. 640,850, published Aug. 25, 1953.

Fishing tackle. Walrus Products. 583,701, Dec. 15; Serial No. 644,081, published Aug. 25, 1953.

Toy, Three-dimensional construction. H. S. Rosenbloom. 583,644, Dec. 15; Serial No. 638,664, published Aug. 25, 1953.

CLASS 23

Bearing structures. American Electro Metal Corporation. 583,600, Dec. 15; Serial No. 624,922, published July 21, 1953.

Milling machines, Hand, and lubrication pumps. W. H. Nichols & Sons. 428,051, Mar. 11, 1947. Republished Dec. 15.

Razors and razor blades. Prybrands, Inc. 306,285, renewed Sept. 12, 1953. O. G. Dec. 15.

Spudders, clean-out machines, rotary rigs, etc. Walker-Neer Machine Company. 583,748, Dec. 15; Serial No. 598,694.

Tool, Wood cutting. H. K. Porter, Inc. 310,125, renewed Feb. 13, 1954. O. G. Dec. 15.

Tools, Mechanics' hand. Bonney Forge & Tool Works. 370,527, Aug. 29, 1939. Republished Dec. 15.

Trolleys, cranes, winches, etc. David Round & Son. 583,575, Dec. 15; Serial No. 601,642, published Aug. 4, 1953.

CLASS 24

Washing machines, Laundry. Easy Washing Machine Corporation. 309,759, renewed Jan. 30, 1954. O. G. Dec. 15.

CLASS 26

Apparatus for collecting fractions or samples of predetermined volume of liquids in a plurality of receptacles, Automatically operable. Technicon Chromatography Corporation. 583,747, Dec. 15; Serial No. 597,363.

Apparatus for testing the operating characteristics including acceleration and deceleration of a vehicle. Autosphere Corporation. 583,642, Dec. 15; Serial No. 638,466, published July 28, 1953.

Calculating machines. Olympia Büromaschinenwerke A. G. 583,599, Dec. 15; Serial No. 624,521, published July 14, 1953.

Calculating machines, go and no-go O. D. (outside diameter) gauges, cross gauges, etc. Contina Bureaux- und Rechenmaschinenfabrik Aktiengesellschaft. 583,577, Dec. 15; Serial No. 603,713, published July 28, 1953.

Device comprising essentially a platform, an aligning mechanism and a viewing screen for testing and checking wheel alignment of automotive and other vehicles propelled on wheels. Bear Manufacturing Company. 583,596, Dec. 15; Serial No. 623,868, published July 28, 1953.

Electrical overload indicators. Allis-Chalmers Manufacturing Company. 583,595, Dec. 15; Serial No. 623,697, published July 14, 1953.

Eyeglass frames. Zylite Products Co., Inc. 583,753–4, Dec. 15; Serial Nos. 629,136–7.

Film, Colored photographic. American Viscose Corporation. 583,598, Dec. 15; Serial No. 624,380, published July 28, 1953.

Film, Motion picture. Bell & Howell Company. 583,758, Dec. 15; Serial No. 648,479.

Films for reproducing sound and speech for teaching languages, Motion picture. Linguaphone Institute Limited. 583,759, Dec. 15; Serial No. 610,367.

Films, Series of stereoscopic motion picture. Universal Pictures Company, Inc. 583,669, Dec. 15; Serial No. 641,532, published July 21, 1953.

Micrometers. The Lufkin Rule Company. 583,744, Dec. 15; Serial No. 571,907.

Ophthalmic mountings and parts thereof. Willson Products, Inc. 583,664, Dec. 15; Serial No. 641,109, published July 21, 1953.

Pre-sensitized plates. Azoplate Corporation. 583,657, Dec. 15; Serial No. 640,141, published Aug. 11, 1953.

Projectors, Motion picture, and projection screens. Eastman Kodak Company. 583,661, Dec. 15; Serial No. 640,788, published July 7, 1953.

Ruling pens, Drafting. V. & E. Manufacturing Co. 583,749, Dec. 15; Serial No. 609,749.

Tallying device particularly adapted to the recording of egg production, etc. F. Distaso. 583,746, Dec. 15; Serial No. 593,654.

Voltmeters; thermostats with electrical contacts, etc. General Controls Co. 583,558, Dec. 15; Serial No. 553,842, published Aug. 4, 1953.

CLASS 29

Brushes, Paint. Baker Brush Co. Inc. 306,027, renewed Sept. 5, 1953. O. G. Dec. 15.

Brushes, Water color. Binney & Smith Company. 583,636, Dec. 15; Serial No. 637,262, published Sept 22, 1953.

Mop, Wool dust. New England Mop Co. 583,589, Dec. 15; Serial No. 616,441, published Sept. 22, 1953.

Mops, Rubber sponge floor. F. K. Bogan. 583,594, Dec. 15; Serial No. 623,588, published Sept. 15, 1953.

Polishing cloths. The Las-Stik Manufacturing Co. 583,729–30, Dec. 15; Serial Nos. 648,111–12, published Sept. 22, 1953.

Polishing cloths, Chemically treated. Hygiene Research, Inc. 583,724, Dec. 15; Serial No. 645,417, published Sept. 8, 1953.

CLASS 32

Table tops. Laminated Veneers Co. 583,658, Dec. 15; Serial No. 640,570, published Sept. 15, 1953.

CLASS 34

Control valves for gas burners and blow torches. J. Stepanian. 583,592, Dec. 15; Serial No. 619,269, published Aug. 25, 1953.

Equipment for welding, cutting, brazing, etc. The Bastian-Blessing Company. 583,556–7, Dec. 15; Serial Nos. 549,872–3, published Aug. 11, 1953.

Equipment for welding, cutting, brazing etc. The Bastian-Blessing Company. 583,559, Dec. 15; Serial No. 564,014, published Aug. 11, 1953.

Equipment for welding, cutting, brazing, etc. The Bastian-Blessing Company. 583,567, Dec. 15; Serial No. 590,484, published Aug. 25, 1953.

Furnaces, Warm air, gas burners, oil burners, etc. The Peerless Foundry Company. 583,606, Dec. 15; Serial No. 626,904, published Aug. 11, 1953.

Grill, Portable. Atlanta Stove Works, Inc. 583,639, Dec. 15; Serial No. 638,390, published Aug. 4, 1953.

Heat exchangers. Delanium Carbon Corporation. 583,648–9, Dec. 15; Serial Nos. 638,757–8, published Aug. 4, 1953.

Heaters, Domestic water. Pennsylvania Range Boiler Co. 583,680, Dec. 15; Serial No. 642,769, published Aug. 4, 1953.

Heaters, Gas water. Rheem Manufacturing Company. 583,684, Dec. 15; Serial No. 642,995, published Aug. 18, 1953.

Light reflectors. D. Swarovski Glasfabrik und Tyrolit-Schleifmittel-Werke. 583,573, Dec. 15; Serial No. 598,934, published Aug. 18, 1953.

Machinery for heating and pouring metals prior to casting same, Movable. United American Metals Corporation. 583,565, Dec. 15; Serial No. 582,584, published Aug. 25, 1953.

Ranges, Gas, gas space heaters, coal or wood ranges, etc. H. R. Clawson. 583,561, Dec. 15; Serial No. 569,052, published Aug. 4, 1953.

CLASS 36

Harmonicas. M. Hohner, Inc. 583,643, Dec. 15; Serial No. 638,581, published Sept. 15, 1953.

Harmonicas. M. Hohner, Inc. 583,652, Dec. 15; Serial No. 638,852, published Sept. 8, 1953.

Harmonicas. M. Hohner, Inc. 583,656, Dec. 15; Serial No. 639,933, published Sept. 22, 1953.

Musical instruments. Pancordion, Inc. 583,614, Dec. 15; Serial No. 632,438, published Sept. 15, 1953.

Organs, Pipe. Wicks Organ Company. 583,560, Dec. 15; Serial No. 568,091, published Sept. 15, 1953.

Organs, Reed and pipe. H. Hancock. 583,655, Dec. 15; Serial No. 639,755, published Sept. 8, 1953.

Phonograph records, Grooved. Dance Records, Inc. 583,625, Dec. 15; Serial No. 635,349, published Sept. 22, 1953.

Phonograph records, Grooved. Gamma Records, Inc. 583,716, Dec. 15; Serial No. 644,969, published Sept. 22, 1953.

Phonograph records, Grooved. Les Disques de France. 583,585, Dec. 15; Serial No. 611,574, published Sept. 15, 1953.

Phonograph records, Grooved. R. Musarra. 583,621, Dec. 15; Serial No. 633,476, published Sept. 22, 1953.

Phonograph records, Grooved. A. J. Petivan, Jr. 583,654, Dec. 15; Serial No. 639,588, published Sept. 22, 1953.

Phonograph records, Grooved. Vox Productions, Inc. 583,647, Dec. 15; Serial No. 638,749, published Sept. 22, 1953.

Tuning-pins for pianos. W. Wagner, Jr., Gesellschaft mit beschränkter Haftung. 583,645, Dec. 15; Serial No. 638,678, published Sept. 22, 1953.

CLASS 38

Books. Bantam Books, Inc. 583,702, Dec. 15; Serial No. 644,094, published Sept. 1, 1953.

Books. Graphic Publishing Co., Inc. 583,723, Dec. 15; Serial No. 645,242, published Sept. 8, 1953.

Books. Harlis, Incorporated. 583,635, Dec. 15; Serial No. 637,126, published Sept. 8, 1953.

Books. Stern Brothers. 583,653, Dec. 15; Serial No. 639,503, published Sept. 1, 1953.

Comic strip, Daily and Sunday. The McNaught Syndicate, Inc. 583,676, Dec. 15; Serial No. 642,293, published Sept. 1, 1953.

Decalcomanias, Printed. Modern Displays. 583,624, Dec. 15; Serial No. 634,153, published Sept. 15, 1953.

Magazine. Dell Publishing Company, Inc. 583,721, Dec. 15; Serial No. 645,234, published Sept. 15, 1953.

Magazine. Trailercoach Dealers National Association. 583,715, Dec. 15; Serial No. 644,810, published Sept. 1, 1953.

Magazine, House. Fruit Growers Express Company. 583,722, Dec. 15; Serial No. 645,240, published Sept. 8, 1953.

Manuals and replacement sheets therefor, Technical. The Howard Company, Inc. 583,650, Dec. 15; Serial No. 638,770, published Sept. 15, 1953.

Newspaper cartoons. King Features Syndicate, Inc. 309,290, renewed Jan. 9, 1954. O. G. Dec. 15.

Newspaper, Daily. The Houston Chronicle Publishing Co. 583,697, Dec. 15; Serial No. 643,686, published Sept. 1, 1953.

Newspaper, Daily. The Post Printing and Publishing Company. 583,626, Dec. 15; Serial No. 635,433, published Sept. 15, 1953.

Newspaper feature, Daily and Sunday. The McNaught Syndicate, Inc. 583,692, Dec. 15; Serial No. 643,431, published Sept. 15, 1953.

Newspaper section. Central Press Association, Inc. 309,150, renewed Jan. 2, 1954. O. G. Dec. 15.

Newspaper section. King Features Syndicate, Inc. 309,216, renewed Jan. 9, 1954. O. G. Dec. 15.

Pamphlets, monthly magazines, printed books, etc. The Co-Operative League of the United States of America Assoc. 163,710, Jan. 23, 1923. Republished Dec. 15.

Parts charts. M. E. Foster. 583,617, Dec. 15; Serial No. 632,669, published Sept. 1, 1953.

Personal photographs. Halo-Star Corporation. 583,563, Dec. 15; Serial No. 581,260, published Sept. 8, 1953.

Publication. Burndy Engineering Company, Inc. 583,569, Dec. 15; Serial No. 595,824, published Sept. 1, 1953.

Publication. Helms Bakeries. 583,666, Dec. 15; Serial No. 641,297, published Sept. 8, 1953.

Publication. Northwest Publications, Inc. 583,719, Dec. 15; Serial No. 645,214, published Sept. 8, 1953.

Publication, House organ type. A. Asch, Incorporated. 583,678, Dec. 15; Serial No. 642,338, published Sept. 1, 1953.

Publication, Monthly. Helms Bakeries. 583,667, Dec. 15; Serial No. 641,299, published Sept. 1, 1953.

Publication, Monthly. Weltronic Company. 583,616, Dec. 15; Serial No. 632,578, published Sept. 1, 1953.

Publication, Quarterly. H. Gernsback. 305,558, Aug. 22, 1933. Amended. O. G. Dec. 15.

Publications, Periodical. R. M. Poe. 583,679, Dec. 15; Serial No. 642,489, published Sept. 15, 1953.

CLASS 39

Blouses, underwear and sleeping garments. Wolverine Knitting Mills. 583,623, Dec. 15; Serial No. 634,131, published July 28, 1953.
Clothing. Weill, Raphael & Company. 369,866, Aug. 8, 1939. Republished Dec. 15.
Corsets, brassières, girdles, etc. Arnold, Constable & Co., Inc. 307,096, renewed Oct. 17, 1953. O. G. Dec. 15.
Dresses, Ladies', misses', and junior misses'. Dixie Dee Dresses, Inc. 502,202, Sept. 14, 1948. Canceled Nov. 6, 1953. O. G. Dec. 15.
Hats, Collapsible. Maureen Manufacturing Company. 583,593, Dec. 15; Serial No. 622,161, published July 28, 1953.
Hosiery and slips, panties, underwear, etc. M. Poupko. 583,633, Dec. 15; Serial No. 636,733, published July 28, 1953.
Lingerie, Girls' and dolls'. Empire Manufacturing Company. 583,580, Dec. 15; Serial No. 607,803, published July 28, 1953.
Overcoats, topcoats, and stormcoats, Men's and boys'. Liberty Garment Manufacturing Co. 552,293, Dec. 18, 1951. Canceled Nov. 2, 1953. O. G. Dec. 15.
Shirts, Men's sport and dress outer. Lancer Shirt Company. 583,618, Dec. 15; Serial No. 633,110, published July 28, 1953.
Shirts, sweat pants, gym shirts, etc., Men's and boys' sweat. Betty Brooks Co. 583,638, Dec. 15; Serial No. 637,749, published June 30, 1953.
Shoes, Infants' and children's. Moran Shoe Company. 385,591, Mar. 11, 1941. Republished Dec. 15.
Stockings. O'Callaghan & Fedden. 95,138, re-renewed Feb. 3, 1954. O. G. Dec. 15.
Suits, overcoats, shirts, etc. Burberrys. 93,819, re-renewed Oct. 21, 1953. O. G. Dec. 15.
Sweaters. Avonshire Knitting Mills, Inc. 583,630, Dec. 15; Serial No. 636,194, published July 28, 1953.
Sweaters, Ladies', misses', and children's. Old Colony Knitting Mills, Inc. 583,579, Dec. 15; Serial No. 604,446, published Aug. 4, 1953.
Underwear, Men's. Duofold, Inc. 583,631, Dec. 15; Serial No. 636,413, published July 28, 1953.

CLASS 42

Blankets. Nashua Manufacturing Company. 372,008, Oct. 17, 1939. Amended. O. G. Dec. 15.
Cotton broadcloth shirting. Riverside & Dan River Cotton Mills, Inc. 308,292, renewed Nov. 28, 1953. O. G. Dec. 15.
Lining-cloth. Peters Brothers. 95,469, re-renewed Feb. 17, 1954. O. G. Dec. 15.

CLASS 43

Crochet cotton, Mercerized, twine for needle work, embroidery thread, etc. Cleveland Mill and Power Company. 308,747, Dec. 19, 1933. Republished Dec. 15.

CLASS 46

Bread. The Butereg Company, Inc. 583,572, Dec. 15; Serial No. 598,571, published Aug. 18, 1953.
Cakes, cookies, and crackers. Weston Biscuit Company Inc. 583,612, Dec. 15; Serial No. 631,030, published Aug. 25, 1953.
Candies, prepared edible chocolate, cocoa, alimentary pastes, etc. Companhia Industrial de Conservas Alimenticias "Cica," 583,570, Dec. 15; Serial No. 596,899, published Aug. 18, 1953.
Candy. M. J. Holloway & Co. 583,725, Dec. 15; Serial No. 645,709, published Sept. 15, 1953.
Canned cooked ham. Pražský Průmysl Masný, Národní Podnik. 583,752, Dec. 15; Serial No. 622,908.
Canned dog food. Ready Foods Company, Inc. 354,755, Feb. 22, 1938. Republished Dec. 15.
Canned fruits, canned vegetables, canned berries, etc. United Growers, Inc. 583,627, Dec. 15; Serial No. 635,860, published Sept. 22, 1953.
Canned raw oysters and canned cooked oysters. Willapoint Oysters Incorporated. 304,644, renewed July 11, 1953. O. G. Dec. 15.
Canned vegetables and canned fruits. Kuner-Empson Company. 583,554, Dec. 15; Serial No. 538,767, published Aug. 25, 1953.
Canned vegetables, canned tomato juice, and green tomato pickle. The B. F. Shriver Company. 583,555, Dec. 15; Serial No. 541,592, published Sept. 8, 1953.
Coffee, Instant. Standard Brands Incorporated. 583,681, Dec. 15; Serial No. 642,779, published Sept. 22, 1953.
Coffee. Standard Brands Incorporated. 583,711, Dec. 15; Serial No. 644,463, published Sept. 22, 1953.
Corned beef hash. Western Packing Corporation. 374,554, Jan. 16, 1940. Canceled Nov. 2, 1953. O. G. Dec. 15.
Dairy products. Knudsen Creamery Co. of California. 583,584, Dec. 15; Serial No. 611,438, published Nov. 4, 1952.
Eggs, Fresh. Bouthilet-Gray Laboratories, Inc. 583,605, Dec. 15; Serial No. 626,190, published Aug. 25, 1953.
Flour, Prepared cake, and prepared cookie flour. Acme-Evans Company. 583,562, Dec. 15; Serial No. 571,103, published Apr. 18, 1950.
Flour, Wheat. International Milling Company. 583,703, Dec. 15; Serial No. 644,305, published Sept. 22, 1953.
Flour, Wheat. International Milling Company. 583,704, Dec. 15; Serial No. 644,306, published Sept. 15, 1953.
Flour, Wheat. International Milling Company. 583,706, Dec. 15; Serial No. 644,314, published Sept. 15, 1953.
Flour, Wheat. International Milling Company. 583,707–9, Dec. 15; Serial Nos. 644,317–19, published Sept. 15, 1953.
Flour, Wheat, barley flour, rye flour, etc. International Milling Company. 583,705, Dec. 15; Serial No. 644,308, published Sept. 15, 1953.
Food flavorings, Natural and synthetic. Firmenich & Co. 583,568, Dec. 15; Serial No. 594,263, published Aug. 4, 1953.
Fruit, Fresh citrus. Pacific Coast Fruit Distributors. 428,170, Mar. 11, 1947. Republished Dec. 15.
Fruits, Dried, canned fruits, canned vegetables. Abinante & Nola Packing Co. 435,842, Jan. 13, 1948. Republished Dec. 15.
Fruits, Fresh citrus, canned citrus fruits, etc. Scenic Citrus Cooperative. 583,581, Dec. 15; Serial No. 607,870, published June 2, 1953.
Fruits, Fresh deciduous. Pinnacle Packing Co., Inc. 308,039, renewed Nov. 21, 1953. O. G. Dec. 15.
Gravy mix, potato salad, macaroni salad, etc. Wilson Products Company. 583,607, Dec. 15; Serial No. 627,365, published Sept. 22, 1953.
Hams, picnics, Boston butts, etc. Houston Packing Company. 309,381, renewed Jan. 9, 1954. O. G. Dec. 15
Hams, shoulders, bacon, and frankfurters. Colonial Provision Co., Inc. 307,590, Oct. 31, 1933. Republished Dec. 15.
Ice cream. Cloquet Creamery. 305,452, Aug. 15, 1933. Republished Dec. 15, 1953.
Ice cream. Creameries of America, Inc. 351,093, Oct. 19, 1937. New certificate. O. G. Dec. 15.
Ice cream. Creameries of America, Inc. 443,621, Dec. 13, 1949. New certificate. O. G. Dec. 15.
Milk, Evaporated goat. California Goat Dairymen's Assn., Inc. 583,720, Dec. 15; Serial No. 645,228, published Sept. 1, 1953.
Milk, Fresh, buttermilk, sour cream, etc. Foremost Dairies, Inc. 583,609, Dec. 15; Serial No. 630,001, published Sept. 15, 1953.
Milk solids, Non-fat dry. Consolidated Badger Cooperative. 583,602, Dec. 15; Serial No. 625,968, published Sept. 22, 1953.
Milk, Sweet. M & R Dietetic Laboratories, Inc. 308,818, renewed Dec. 19, 1953. O. G. Dec. 15.
Pies, Baked and fried. H. L. Griffin. 583,726–7, Dec. 15; Serial Nos. 646,711–12, published Sept. 8, 1953.
Salt, Acid. Standard Brands Incorporated. 583,755, Dec. 15; Serial No. 636,501.
Shortening, Vegetable. The Procter & Gamble Company. 307,630, renewed Oct. 31, 1953. O. G. Dec. 15.
Shrimp, Fresh and frozen. Booth Fisheries Corporation. 583,683, Dec. 15; Serial No. 642,935, published Sept. 22, 1953.
Shrimp, Fresh and frozen. Booth Fisheries Corporation. 583,694, Dec. 15; Serial No. 643,460, published Sept. 22, 1953.
Soya lecithin. Wolf Foods, Inc. 583,601, Dec. 15; Serial No. 625,380, published Sept. 22, 1953.

CLASS 48

Malt beverages. San Antonio Brewing Association. 315,873, Aug. 14, 1934. Republished Dec. 15.
Malt beverages. San Antonio Brewing Association. 315,875, Aug. 14, 1934. Republished Dec. 15.

CLASS 49

Alcoholic cordials. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier, Fils Aine et Cie). 583,591, Dec. 15; Serial No. 617,713, published July 21, 1953.
Gin. John De Kuyper & Son. 95,547, re-renewed Feb. 24, 1954. O. G. Dec. 15.
Gin. John De Kuyper & Son. 310,057, renewed Feb. 13, 1954. O. G. Dec. 15.
Whiskey. B. P. Lilienthal. 310,242, renewed Feb. 13, 1954. O. G. Dec. 15.

CLASS 50

Christmas tree decorations. National Tinsel Manufacturing Company. 583,663, Dec. 15; Serial No. 641,077, published Sept. 1, 1953.
Name plates, Etched and lithographed metal. American Name Plate & Manufacturing Company. 583,586, Dec. 15; Serial No. 612,365, published Sept. 1, 1953.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. Bourjois, Inc. 310,211, renewed Feb. 13, 1954. O. G. Dec. 15.
Beauty cream, brilliantine, dusting powder, etc. Lucky Strike Perfumeries Corporation. 583,597, Dec. 15; Serial No. 624,041, published Sept. 15, 1953.
Cologne. Lucien Lelong, Inc. 500,262, May 11, 1948. Cancelled Nov. 2, 1953. O. G. Dec. 15. (Formerly Class 6.)
Cosmetics. Max Factor & Co. 583,745, Dec. 15; Serial No. 588,756.

Creams, emulsions, and liquid lotions for the face, etc. A. S. Hinds Co. 310,545, renewed Feb. 27, 1954. O. G. Dec. 15.
Deodorant and non-perspirant. Marion Lambert, Inc. 308,455, renewed Dec. 5, 1953. O. G. Dec. 15.
Deodorant and non-perspirant. Marion Lambert, Inc. 308,910, renewed Dec. 26, 1953. O. G. Dec. 15.
Deodorant mouth wash. The Pharma-Craft Corporation. 583,582, Dec. 15; Serial No. 608,378, published Aug. 25, 1953.
Dye for hair and beard. R. Perla. 583,608, Dec. 15; Serial No. 628,776, published Sept. 15, 1953.
Facial oil. Glorion Corporation of America. 583,566, Dec. 15; Serial No. 587,437, published Sept. 22, 1953.
Finger nail polish, finger nail polish remover, and hand lotion, Marion Lambert, Inc. 310,519, renewed Feb. 27, 1954. O. G. Dec. 15.
Perfume. The Andrew Jergens Company. 558,039, Apr. 22, 1952. Canceled Nov. 6, 1953. O. G. Dec. 15.
Permanent waving kit. The Procter & Gamble Company. 583,587, Dec. 15; Serial No. 612,522, published Sept. 22, 1953.

CLASS 52

Cleaner. Western Chemical Company. 307,294, renewed Oct. 24, 1953. O. G. Dec. 15.
Liquid synthetic compound adapted for household and general cleaning purposes. H. M Sinclair, Jr. 544,236, June 26, 1951. Corrected. O. G. Dec. 15.
Soap. The E. W. Rose Company. 188,812, Sept. 2, 1924. Republished Dec. 15.
Preparation in the form of a paste used to clean, preserve, and beautify automobiles and other coated and finished surfaces, etc. Ivano Inc. 365,365, Mar. 7, 1939. Republished Dec. 15.

CLASS 100

Beauty shop services. Consolidated Cosmetics. 583,731, Dec. 15; Serial No. 529,749, published Sept. 15, 1953.
Lodgings for guests in motor courts. Tourinns, Incorporated. 583,735–6, Dec. 15; Serial Nos. 618,065–6, published Sept. 15, 1953.
Organizing of chapters and alumni groups in a national fraternity, etc. The Fraternity of Phi Gamma Delta. 583,737, Dec. 15; Serial No. 633,287, published Sept. 15, 1953.

CLASS 101

Advertising services. Bourke, Holland & Miller, Inc. 583,733, Dec. 15; Serial No. 596,069, published Sept. 15, 1953.
Advertising the goods of others. Baltimore-Washington Children's Wear Show, Inc. 583,734, Dec. 15; Serial No. 599,925, published Sept. 15, 1953.

CLASS 102

Commercial, savings, loan and trust department banking services. Bank of America National Trust and Savings Association. 583,738, Dec. 15; Serial No. 635,627, published Sept. 15, 1953.
Underwriting of group health and accident insurance. Continental Casualty Company. 583,740, Dec. 15; Serial No. 641,175, published Sept. 15, 1953.

CLASS 103

Services rendered to automotive vehicles. The Pure Oil Company. 583,732, Dec. 15; Serial No. 581,890, published Apr. 28, 1953.

CLASS 106

Treating textile fabrics of manufacturers. Associated Dye & Print Co. Inc. 583,741, Dec. 15; Serial No. 641,664, published Sept. 22, 1953.

CLASS 107

Entertainment service. F. L. Lederach. 583,742, Dec. 15; Serial No. 646,144, published Sept. 22, 1953.
Entertainment services. Arthur-Sampson Enterprises, Inc. 583,739, Dec. 15; Serial No. 641,161, published Sept. 22, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Arisman, Mervin B., A. J. Vaksvik, and R. W. Magnusen, assignors to Chicago Telephone Supply Corporation, Elkhart, Ind. Driver for variable resistors. Re. 23,750, Dec. 15.

Bjorksten, Johan, Madison, Wis., S. O. Fiedler, Cleveland, Ohio, and L. L. Yaeger, Madison, assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Coated plastic products. Re. 23,753, Dec. 15.

Chicago Telephone Supply Corporation, assignee: *See*—
Arisman, Mervin B., Vaksvik, and Magnusen.

Clark, Robert A., Jr., Chicago, Ill. Communication system. Re. 23,751, Dec. 15.

Fiedler, Stuart O.: *See*—
Bjorksten, Johan, Fiedler, and Yaeger.

Magnusen, Ralph W.: *See*—
Arisman, Mervin B., Vaksvik, and Magnusen.

Matson, Theodore C., Long Beach, and R. N. Riewerts, and D. E. Mortensen, Bellflower, Calif.; said Riewerts and Mortensen assignors to said Matson. Portable bed lamp with adjustable shutter. Re. 23,754, Dec. 15.

Mortensen, Dale E.: *See*—
Matson, Theodore C., Riewerts, and Mortensen.

Nash-Kelvinator Corporation, assignee: *See*—
Bjorksten, Johan, Fiedler, and Yaeger.

National Broach & Machine Company, assignee: *See*—
Praeg, Walter S.

Praeg, Walter S., assignor to National Broach & Machine Company, Detroit, Mich. Hobbing machine. Re. 23,752, Dec. 15.

Riewerts, Roger N.: *See*—
Matson, Theodore C., Riewerts, and Mortensen.

Vaksvik, Adrian J.: *See*—
Arisman, Mervin B., Vaksvik, and Magnusen.

Yaeger, Luther L.: *See*—
Bjorksten, Johan, Fiedler, and Yaeger.

LIST OF PLANT PATENTEES

Van Zanten, Maurits L. V., Lynden, Wash. Azalea plant. 1,233, Dec. 15.

LIST OF DESIGN PATENTEES

Aberman, Sheldon J., Miami Beach, Fla. Handbag. 171,072, Dec. 15.

Athens, Harry L., and O. W. Risto, Valparaiso, Ind. Comb. 171,073, Dec. 15.

Balboni, Antonio, Ferrara, Borgo Uccelli, Italy, assignor to Calcenter Trading Corp., Fresno, Calif. Coffee maker. 171,074, Dec. 15.

Baldwin Company, The, assignee: *See*—
Millington, William, and Day.

Bausch & Lomb Optical Company, assignee: *See*—
Stegeman, Raymond F. E.

Bellon, Ralph J., Chicago, and I. J. Ferdinand, Glencoe, Ill. Shelf bracket. 171,075, Dec. 15.

Bernstein, Milton, New York, N. Y. Spoon or similar article of flatware. 171,076, Dec. 15

Bostitch, Inc., assignee: *See*—
Jenny, Robert W.

Boucher, Marcel, Eltingeville, N. Y. Adjustable brooch or similar article. 171,077, Dec. 15.

Bridges, Roy C., Fort Worth, Tex. Electric clock. 171,078, Dec. 15.

Butler, Charles W., Englewood, N. J., assignor to Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Mowing machine handle. 171,079, Dec. 15.

Calcenter Trading Corp., assignee: *See*—
Balboni, Antonio.

Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Walking toy. 171,080, Dec. 15.

Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Walking toy. 171,081, Dec. 15.

Chadbourn Hosiery Mills, Incorporated, assignee: *See*—
McCarthy, Charles E.

Chernow, Michael, New York, N. Y. Link chain for a necklace or similar article. 171,082, Dec. 15.

Chernow, Michael, New York, N. Y. Link chain for a necklace or similar article. 171,083, Dec. 15.

Computer Research Corporation of California, assignee: *See*—
Sandborg, Theodore C.

Corbett, Miriam E., and G. C. Hoff, Richmond, Ind. Set of educational alphabet cards. 171,084, Dec. 15.

Day, Wilbur M.: *See*—
Millington, William, and Day.

Emms, Charles, London, England. Double-breasted dress vest. 171,085, Dec. 15.

Emms, Charles, London, England. Single-breasted dress vest. 171,086, Dec. 15.

Feldman, Eddie, Chicago, Ill. Toy heel for a shoe or the like. 171,087, Dec. 15.

Ferdinand, Irwin J.: *See*—
Bellon, Ralph J., and Ferdinand.

Gordon, Melvin J., assignee: *See*—
Wilcher, Abrasha.

Gordon, Sadye Z., assignee: *See*—
Wilcher, Abrasha.

Greshel, Leonard J.: *See*—
Robinson, James M., Greshel, and Lewis.

Hamilton, Kenneth C., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Place mat. 171,088, Dec. 15.

Hills, David G., Hartford, assignor to Plax Corporation, West Hartford, Conn. Plastic bottle. 171,089, Dec. 15.

Hoff, Gladys C.: *See*—
Corbett, Miriam E., and Hoff.

Jenny, Robert W., Westerly, R. I., assignor to Bostitch, Inc., Stonington, Conn. Stapler. 171,090, Dec. 15

Karpel Curtain Corporation, assignee: *See*—
Karpel, David.

Karpel, David, Brooklyn, assignor to Karpel Curtain Corporation, New York, N. Y. Curtain clip. 171,091, Dec. 15.

Kaufman, Louis, Brooklyn, N. Y. Handbag. 171,092, Dec. 15.

Keyes Fibre Company, assignee: *See*—
Randall, Walter H.

Lewis, Donald A.: *See*—
Robinson, James M., Greshel, and Lewis.

Lovejoy, Charles K., assignor to Scripto, Inc., Atlanta, Ga. Ball-point pen. 171,093, Dec. 15.

Manchester Hosiery Mills, assignee: *See*—
Wilcher, Abrasha.

Marano, Herbert W., Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill. Desk stapler or similar article. 171,094, Dec. 15

Marx, Louis, & Company, Inc., assignee: *See*—
Campbell, Laurie J.

McCarthy, Charles E., Palisades Park, N. J., assignor to Chadbourn Hosiery Mills, Incorporated. Lady's stocking. 171,095, Dec. 15.

Millington, William, Grand Rapids, Mich., and W. M. Day, Kenwood, assignors to The Baldwin Company, Cincinnati, Ohio. Organ console. 171,096, Dec. 15.

Millington, William, Grand Rapids, Mich., and W. M. Day, Kenwood, assignors to The Baldwin Company, Cincinnati, Ohio. Piano case. 171,097, Dec. 15.

Milwaukee Lace Paper Company, assignee: *See*—
Hamilton, Kenneth C.

Murphy, Joseph E., Hicksville, and M. Schnall, Brooklyn, assignors to See-Qual Package Corp., New York, N. Y. Tray for a wrapped fruit container. 171,098, Dec. 15.

North Electric Manufacturing Company, The, assignee: *See*—
Robinson, James M., Greshel, and Lewis.
Oshlag, Arthur A., New Rochelle, N. Y. Belt buckle. 171,099, Dec. 15.
Pannone, Lester, assignor to The Sponge Rubber Products Company, Shelton, Conn. Flexible sheet of cushioning material or the like. 171,100, Dec. 15.
Panzer, Fredric C. and W. H., Chicago, Ill. Smoker's stand or similar article. 171,101, Dec. 15.
Panzer, Wilbur H.: *See*—
Panzer, Fredric C. and W. H.
Patriarca, Domenico, Cranston, R. I. Tobacco showcase humidifier. 171,102, Dec. 15.
Plax Corporation, assignee: *See*—
Hills, David G.
Rainey, Thomas M., Cleveland, Ohio. Drawing table or the like. 171,103, Dec. 15.
Randall, Walter H., Waterville, assignor to Keyes Fibre Company, Portland, Maine. Carrying tray. 171,104, Dec. 15.
Risto, Otto W.: *See*—
Athens, Harry L., and Risto.
Robinson, James M., L. J. Greshel, and D. A. Lewis, assignors to The North Electric Manufacturing Company, Galion, Ohio. Desk stand for a hand telephone. 171,105, Dec. 15.
Rosary Hill College, assignee: *See*—
Schutz, Raymond F.
Sandborg, Theodore C., Los Angeles, Calif., assignor to Computer Research Corporation of California. Computer housing. 171,106, Dec. 15.
Schutz, Raymond F., assignor to Rosary Hill College, Buffalo, N. Y. Spectacle front. 171,107, Dec. 15.
Schnall, Murray: *See*—
Murphy, Joseph E., and Schnall.
Schutz, Raymond F., assignor to Rosary Hill College, Buffalo, N. Y. Spectacle front. 171,108, Dec. 15.
Schutz, Raymond F., assignor to Rosary Hill College, Buffalo, N. Y. Spectacle front. 171,109, Dec. 15.
Scripto, Inc., assignee: *See*—
Lovejoy, Charles K.
See-Qual Package Corp., assignee: *See*
Murphy, Joseph E., and Schnall.
Shaw & Slavsky, Inc., assignee: *See*—
Slavsky, Robert J.
Shirley, Alton L., Cranston, R. I. Address container. 171,110, Dec. 15.
Slavsky, Robert J., assignor to Shaw & Slavsky, Inc., Detroit, Mich. Price tag. 171,111, Dec. 15.
Sponge Rubber Products Company, The, assignee: *See*—
Pannone, Lester.
Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle front. 171,112, Dec. 15.
Stone, Natalie G., assignee: *See*—
Wilcher, Abrasha.
Swan, Frank M., Kansas City, Mo. Game board. 171,113. Dec. 15.
Toro Manufacturing Corporation of Minnesota, assignee: *See*—
Butler, Charles W.
Warren, William D., Scarsdale, N. Y. Combined basket and comestible container. 171,114, Dec. 15.
Wilcher, Abrasha, assignor to M. J. and S. Z. Gordon, and N. G. Stone, doing business as Manchester Hosiery Mills, Manchester, N. H. Lady's stocking. 171,115, Dec. 15.
Wilson Jones Company, assignee: *See*—
Marano, Herbert W.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abraham, Herbert, assignor to The Ruberoid Co., New York, N. Y. Shingle. 2,662,491, Dec. 15.
Abrams, Warren B., assignee: *See*—
Abrams, William A.
Abrams, William A., assignor of one-third to W. B. Abrams, Pittsburg, and one-third to L. Arata, Antioch, Calif. Tractor mounted adjustable post hole digger. 2,662,736, Dec. 15.
Actiengesellschaft Joh. Jacob Rieter & Cie., assignee: *See*—
Schweizer, Hans.
Add-A-Handle Corporation, assignee: *See*—
Robins, Leonard J.
Adelman, Samuel V., trustee, assignee: *See*—
Solomon, Louis.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Schwab, Arthur W., Cooney, and Evans.
Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Vann, James O.
Akerlind, Hilmer G. A., Stora Essingen, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden. Reduction valve for pressure liquids. 2,662,349, Dec. 15.
Aktiebolaget Alka Aluminiumkapslar, assignee: *See*—
Jonsson, Einar J.
Alborco, Andrew J., and M. W. Pratt, Akron, Ohio. Toothbrush and toothpaste kit. 2,662,535, Dec. 15.
Aldous Successors Limited, assignee: *See*—
Carey, Herbert C.
Alexander, Harry B., assignor to The Superior Switchboard & Dexices Company, Canton, Ohio. Rotary stand for parts containers. 2,662,644, Dec. 15.
Allenbaugh, Ralph, assignor of one-half to W. F. Feigenbaum, Mansfield, Ohio. Scaffold hoisting mechanism. 2,662,732, Dec. 15.
Allenbaugh, Ralph, assignor of one-half to W. F. Feigenbaum, Mansfield, Ohio. Scaffold hoisting mechanism. 2,662,733, Dec. 15.
Allenbaugh, Ralph, assignor of one-half to W. F. Feigenbaum, Mansfield, Ohio. Swing stage scaffold. 2,662,734, Dec. 15.
Allenby, Owen C. W., McMasterville, Quebec, assignor to Canadian Industries Limited, Montreal, Quebec, Canada. Reaction products of polyepoxides with styrene-acrylic acid-vinyl pyridine copolymers. 2,662,870, Dec. 15.
Allied Chemical & Dye Corporation, assignee: *See*—
Bailey, Maurice E.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Chipman, John F.
Tanke, Willard H.
Allison, Leslie R., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Vacuum tube amplifier circuits for coded carrier current. 2,662,934, Dec. 15.
Alm, Richard: *See*—
Riley, Joseph J., and Alm.
Almas, Louis T., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Stock bin. 2,662,671, Dec. 15.
Airic, Gustave C. A., Troyes, France. Device for the gunnery instructions. 2,662,305, Dec. 15.
Amber, Yervant, Los Angeles, Calif. Pressing form for garment sleeves. 2,662,672, Dec. 15.
Amber, Yervant, Los Angeles, Calif. Sleeve expander and/or former. 2,662,673, Dec. 15.
American Can Company, assignee: *See*—
Gill, Willie, and Nicholson.
American Car and Foundry Company, assignee: *See*—
Kuhler, Otto A., and Burnett.
Patton, John W.
American Cyanamid Company, assignee: *See*—
Eberhart, Dale R., and Barabutes.
American Machine and Foundry Company, assignee: *See*—
Gibbs, William J.
McGinley, James J.
Pedersen, Mathias.
American Optical Company, assignee: *See*—
Armbruster, John T.
Gradisar, Albin A.
American Viscose Corporation, assignee: *See*—
Ballard, Hyde W.
Ames, Robert S., assignor to Goodyear Aircraft Corporation, Akron, Ohio. Forming molds for casting thermosetting transparent enclosures. 2,662,248, Dec. 15.
Andersen, Walther M. A., assignor to Crystal Research Laboratories, Inc., Hartford, Conn. Crystal mounting for delay lines. 2,663,006, Dec. 15.
Anderson Brass Works, assignee: *See*—
Culverhouse, Carl R., Jr.
Anderson, Carl J., assignee: *See*—
Paul, Wanda L.
Anderson, Dan C.: *See*—
Hagemeyer, Hugh J., Jr., and Anderson.
Anderson, John W., Edina, and R. R. Chapman, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Automatic pilot. 2,662,705, Dec. 15.
Anderson, Robert, Des Plaines, and R. F. Bracke, Arlington Heights, assignors, by mesne assignments, to R. F. Bracke & Company, Chicago, Ill. Carburetor. 2,662,758, Dec. 15.
Anderson, Russell J., Racine, Wis., assignor to Belle City Malleable Iron Company. Tiltable dumping device for mold conveyers. 2,662,651, Dec. 15.
Angell, Pierce T., Cleveland, and C. D. Vaughn, Wickliffe, assignors to Thompson Products, Inc., Cleveland, Ohio. Machine for milling impeller wheels. 2,662,450, Dec. 15.
Anker-Werke, A. G., assignee: *See*—
Sobisch, Johannes.
Antlfinger, George J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Terminating the polymerization of monomeric materials in aqueous emulsion and a nonstaining, nondiscoloring composition for use therein. 2,662,876, Dec. 15.
Arata, Luigi, assignee: *See*—
Abrams, William A.
Archibald, Raymond C.: *See*—
Castner, Robert C., and Archibald.
Armbruster, John T., Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass. Carrying case. 2,662,637, Dec. 15.
Armco Steel Corporation, assignee: *See*—
Freholm, John L.
Armour and Company, assignee: *See*—
Black, James, and Hedstrom.
Glynn, Emmett P., and Hofferth.
Armstrong, Gordon, and G. Kulcher, assignors to The Gordon Armstrong Company, Inc., Cleveland, Ohio. Air treated and controlled mobile therapeutic cubicle. 2,662,521, Dec. 15.
Armstrong Gordon Company, Inc., The, assignee: *See*—
Armstrong, Gordon, and Kulcher.
Armstrong, William, assignor to Armstrong's Patent Company Limited, Eastgate, Beverley, England. Hydraulic shock absorber for vehicles. 2,662,615, Dec. 15
Armstrong's Patents Company Limited, assignee: *See*—
Armstrong, William.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Hutton, Ulric O.
Miller, James F., and Jaskowski.
Arutunoff, Armais, Bartlesville, Okla. Apparatus for drilling deep wells. 2,662,735, Dec. 15.
Arutunoff, Armais, assignor to Reda Pump Company, Bartlesville, Okla. Oscillatory, direct-fired, stack-loaded melting furnace. 2,662,764, Dec. 15.
Arvey Corporation, assignee: *See*—
Kleiman, Morton, and Goldman.
Atlas Powder Company, assignee: *See*—
Farren, William R.
Aubert, Fred B., Detroit, Mich. Electrical control system for liquid fuel burners. 2,662,589, Dec. 15.
Austin Motor Company Limited, The, assignee: *See*—
Rennie, Basil C., and Weaving.
Automatic Electric Laboratories, Inc., assignee: *See*—
Glenger, Fred.
Babcock & Wilcox Company, The, assignee: *See*—
Lotz, Otto.
Badan, Mario, Rio de Janeiro, Brazil. Syringe for the application of nascent oxygen, especially for dental purposes. 2,662,523, Dec. 15.
Baggerud, Oscar J., Jersey City, N. J. Mixed pressure turbine engine combination. 2,662,369, Dec. 15.
Bagnell, Edgar W., Glendale, Calif., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex. Internal anchor device for wells. 2,662,601, Dec. 15.
Bailey, Maurice E., Orchard Park, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Purifying phthalic anhydride. 2,662,901, Dec. 15.
Bailey Meter Company, assignee: *See*—
Fellows, Frank H., and Gorrie.
Rutherford, Victor S., Hornfeck, and Dickey.

Bailly, Florent H., Pasadena, Calif. Sampling and handling of mineral specimens. 2,662,401, Dec. 15.

Baird, William B., New York, N. Y. Marionette toy. 2,662,338, Dec. 15.

Baker Castor Oil Company, The, assignee: *See*—
Hansen, Edward F.

Baker, Harold E., Danvers, assignor to Sylvania Electric Products Inc., Salem, Mass. Mercury dispenser. 2,662,678, Dec. 15.

Baker, John R.: *See*—
Baker, Reuben C. and J. R.

Baker, Matthew W., Blackheath, Ealing, and D. A. U. Rush, Ealing, London, assignors to The Sperry Gyroscope Company Limited, Brentford, England. Pulse synchronizing circuits. 2,662,982, Dec. 15.

Baker Oil Tools, Inc., assignee: *See*—
Baker, Reuben C.
Baker, Reuben C. and J. R.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Well casing cementing plug and valve device. 2,662,599, Dec. 15.

Baker, Reuben C., Coalinga, and J. R. Baker, Pasadena, assignors to Baker Oil Tools, Inc., Vernon, Calif. Well cementing plug. 2,662,600, Dec. 15.

Baker, William S., Fort Worth, Tex. Piston ring. 2,662,801, Dec. 15.

Ballard, Alfred G., W. C. Dent, D. G. Broscomb, and A. B. Watt, assignors to G. K. N. Group Services Limited, Smethwick, England. Means for severing or severing and conveying lengths of wire or similar stock. 2,662,597, Dec. 15.

Ballard, Hyde W., West Chester, assignor to American Viscose Corporation, Philadelphia, Pa. Strand traverse mechanism. 2,662,695, Dec. 15.

Ballard, Robert G., Saugus, and J. E. Lundberg, Lynn, Mass., assignors to General Electric Company. Torque compensator. 2,662,410, Dec. 15.

Barabutes, Nena K.: *See*—
Eberhart, Dale R., and Barabutes.

Bareford, Robert E., Burbank, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Manometric accelerometer. 2,662,956, Dec. 15.

Bargen, William J., Waukegan, Ill. Bookholder. 2,662,333, Dec. 15.

Barker, Ray C., Wichita, Kans. Fuse holder. 2,662,953, Dec. 15.

Barnard, William J., Onawa, Iowa. Combination horizontally and vertically swinging gate. 2,662,320, Dec. 15.

Barron, Fred E., assignor to The Maico Company, Incorporated, Minneapolis, Minn. Automatic power output limiting control system for audiometers. 2,662,940, Dec. 15.

Bartling, Loren E., Detroit, assignor to Dearborn Motors Corporation, Highland Park, Mich. Governor for sprayers. 2,662,795, Dec. 15.

Bascome, John H., Jr., Mamaroneck, N. Y. Small boat restrainer. 2,662,501, Dec. 15.

Bashour, Joseph T., New York, N. Y., assignor to Stauffer Chemical Company. Chlorinated cyclic organic trithiocarbonate and preparing same. 2,662,899, Dec. 15.

Batdorf, Jack B., assignor to Hercules Powder Company, Wilmington, Del. Purification of water-soluble reaction products of a rosin and an alkylene oxide. 2,662,881, Dec. 15.

Beach, Lennox F., Sea Cliff, N. Y., assignor to The Sperry Corporation. Gyroscopic compass correction system. 2,662,301, Dec. 15.

Beasley, Donald L., assignor to Wood Bros. Inc., Des Moines, Iowa. Adjustably mounted platform for windrowers. 2,662,362, Dec. 15.

Beaubaire, Marshall B., and M. E. Strand, Minneapolis, Minn. Receptacle closure. 2,662,656, Dec. 15.

Beauchamp, David N., Whittier, Calif., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Coating composition comprising a polyamide and a phenol-formaldehyde resin dissolved in an aqueous alcohol solution. 2,662,865, Dec. 15.

Bechik Products, Inc., assignee: *See*—
Ferguson, J Allen.

Becker, Edward J., South Plainfield, and F. J. Biondi, Livingston, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Desulfurizing carbon-coated metals. 2,662,839, Dec. 15.

Becker, Glenn C., assignor to Vacuum Can Company, Chicago, Ill. Portable food container. 2,662,965, Dec. 15.

Becker, Theodore J.: *See*—
Ruddy, Arlo W., and Becker.

Beer, Earl O., Milford, Ind. Automatic boiler and toaster. 2,662,465, Dec. 15.

Beers, John R., Briarcliff Manor, N. Y. Projection television tube. 2,663,012, Dec. 15.

Behnke, Otto: *See*—
Bergman, Harry, and Behnke.

Belcher, Daniel, Minneapolis, Minn., and R. J. Williams, Richmond Heights, and M. J. Heimos, Lemay, assignors to Bemis Bro. Bag Company, St. Louis, Mo. Manufacture of window bags. 2,662,578, Dec. 15.

Belco Industrial Equipment Division, Inc., assignee: *See*—
Rhinehart, John R., and Eshrich.

Bell Punch Company Limited, assignee: *See*—
Webb, Christopher F.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Becker, Edward J., and Biondi.
Christensen, Howard.
Dorff, Louis A.
Mougey, Wilbur E.
Singer, Fred J.
Teal, Gordon K.

Belle City Malleable Iron Company, assignee: *See*—
Anderson, Russell J.

Bemis Bro. Bag Company, assignee: *See*—
Belcher, Daniel, Williams, and Heimos.

Bendix Aviation Corporation, assignee: *See*—
Livers, Carlos B.
Long, Richard H.
Miller, Alton B.
Mock, Frank C.
Price, Earl R., and Thomas.
Schaffer, David J.
Weisenbach, Charles O., and O'Blenis.

Bennington, Charles H., assignor to The Modern Limb Supply Co., Inc., Wantagh, N. Y. Orthopedic and prosthetic appliance. 2,662,228, Dec. 15.

Bent, Franklin N., Heysham, England, assignor to Hercules Powder Company, Wilmington, Del. Extraction of lower fatty acids. 2,662,916, Dec. 15.

Bergman, Harry, and O. Behnke, Chicago, Ill. Magnetic abrasion tool. 2,662,353, Dec. 15.

Berkley, Warren D.: *See*—
Boller, William D., Berkley, Ernst, and Landmeier.

Berman, Benjamin P.: *See*—
Weiner, Louis I., and Berman.

Bernstein, Paul, assignee: *See*—
Citron, Ben.

Bethlehem Steel Company, assignee: *See*—
White, William E.

Bianchi, Peter, New Haven, and J. C. Rothwell, Bolton, Conn.; said Rothwell assignor of one-fourth to J. T. Donohue, West Boylston, Mass., and one-fourth to J. F. Walsh, Columbia, Conn. Carton and box inverter. 2,662,653, Dec. 15.

Bierlich, Johannes H., Copenhagen, Denmark. Venetian blind. 2,662,592, Dec. 15.

Bills, John N.: *See*—
McConaha, Samuel, Jr., Bills, and McConaha.

Biondi, Frank J.: *See*—
Becker, Edward J., and Biondi.

Birtman Electric Company, assignee: *See*—
Schwarz, Joseph A.

Bishop, John W., Plainfield, N. J., assignor to Tide Water Associated Oil Company, New York, N. Y. Mineral oil compositions. 2,662,856, Dec. 15.

Black, James, and O. Hedstrom, assignors to Armour and Company, Chicago, Ill. Container-aligning conveyer apparatus. 2,662,632, Dec. 15.

Blanc, Jacques, Bois-Colombes, assignor to Societe d'Exploitation des Materiels Hispano-Suiza, S. A., Bois-Colombes (Seine), France. Rotor for fluid machines. 2,662,685, Dec. 15.

Bloch, Herman S., assignor to Universal Oil Products Company, Chicago, Ill. Vulcanized composition formed from sulfur, rubber, and an alkenyl phenol for joining metal, wood, glass, and thermosetting resins. 2,662,869, Dec. 15.

Bluege, Oswald L.: *See*—
Milan, Horace R., and Bluege.

Bock, Louis H., assignor to Rayonier Incorporated, Shelton, Wash. Polyesters made from dibasic acids derived from vanillin. 2,662,871, Dec. 15.

Bodine, Albert G., Jr., Van Nuys, Calif. Acoustic means and method for suppressing detonation in internal-combustion engines. 2,662,513, Dec. 15.

Bodine, Albert G., Jr., Van Nuys, Calif. Detonation suppression piston for internal-combustion engines. 2,662,514, Dec. 15.

Bodine, Albert G., Jr., Van Nuys, Calif. Detonation suppression piston for internal-combustion engines. 2,662,515, Dec. 15.

Bodine, Albert G., Jr., Van Nuys, Calif. Piston for internal-combustion engines having acoustic detonation suppression means. 2,662,516, Dec. 15.

Bodine, Albert G., Jr., Van Nuys, Calif. Piston for internal-combustion engines having acoustic detonation suppression means. 2,662,517, Dec. 15.

Boeing Airplane Company, assignee: *See*—
Snow, Dale W.

Bolding, Hubert V., Jeffersonville, Ind., assignor to The Bradley & Gilbert Company, Louisville, Ky. Multicell collapsible carton. 2,662,682, Dec. 15.

Boller, William D., Milford, Ohio, W. D. Berkley, Fort Wayne, Ind., W. Ernst, Dayton, Ohio, and E. W. Landmeier, assignors to The Wadsworth Electric Mfg. Co., Covington, Ky. Electric circuit breaker. 2,662,951, Dec. 15.

Borax Consolidated, Limited, assignee: *See*—
Taylor, Donald S., and Connell.

Borg-Warner Corporation, assignee: *See*—
Flinn, George E.

Borman, Philip K., Chicago, Ill., assignor to General Electric Company. Stopper construction for sink strainers and the like. 2,662,230, Dec. 15.

Borup, Benjamin F., assignor of one-half to B. F. Borup, Huntington Park, Calif. Fishhook dislodging and extracting instrument. 2,662,331, Dec. 15.

Borup, Bob F., assignee: *See*—
Borup, Benjamin F.

Botimer, Lloyd, Vassar, Mich. Beet topper. 2,662,361, Dec. 15.

Boyle, John R., assignor to Buildice Company, Inc., Chicago, Ill. Condenser cooling unit. 2,662,741, Dec. 15.

Bracke, R. F., & Company, assignee: *See*—
Anderson, Robert, and Bracke.

Bracke, Robert F.: *See*—
Anderson, Robert, and Bracke.

Bradley & Gilbert Company, The, assignee: *See*—
Bolding, Hubert V.

Brandon, Richard C., Elizabeth, N. J., assignor to Standard Oil Development Company. Stabilizing hypochlorite solutions. 2,662,858, Dec. 15.

Brandt, Adrianus, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Mechanical gauge. 2,662,294, Dec. 15.

Braun, Caroline A., administratrix: *See*—
Braun Edward.

Braun, Edward, deceased, Norwalk, Conn., C. A. Braun, administratrix. Device for simultaneously clamping and releasing plural workpieces. 2,662,433, Dec. 15.

Brazier, Marion D., San Gabriel, assignor to Petroleum Engineering Associates, Inc., Pasadena, Calif. Permeability test container. 2,662,395, Dec. 15.

Brennan, Joseph R., Cleveland, Ohio. Storage battery electrode. 2,662,928, Dec. 15.

Brewer, Aubrey K., Washington, D. C. Multicellular fractionation column and the like. 2,662,759, Dec. 15.

Briggs Manufacturing Co., assignee: *See*—
McKitrick, Edward R.

Briscoe, Ernest V., Kerman, Calif. Stabilizing sled for ditchers. 2,662,614, Dec. 15.

Bristol, John E., Niagara Falls, W. A. Harrington, Wilson, and N. Turnbull, Grand Island, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Emulsion polymerization of vinyl acetate. 2,662,863, Dec. 15.

Bristol, John E., Niagara Falls, and N. Turnbull, Grand Island, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Emulsion polymerization of vinyl acetate. 2,662,866, Dec. 15.

Bronson, Frederic L., Copiague, assignor to Raylite Electric Corp., Bronx, N. Y. Christmas tree bell ringing instrument. 2,663,013, Dec. 15.

Bronson, Lawrence E., Glendive, Mont. Stepladder. 2,662,680, Dec. 15.

Brooks, John W., Wenonah, and S. J. Lukasiewicz, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. 3-thienyl thioethers. 2,662,900, Dec. 15.

Broscomb, Dennis G.: *See*—
Ballard, Alfred G., Dent, Broscomb, and Watt.

Brown, Harold P., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparation of plastic condensable synthetic rubbers and subsequent elasto-condensation thereof. 2,662,874, Dec. 15.

Brown, Howard D., Westfield, N. J. Automatic winch rope winder. 2,662,703, Dec. 15.

Bruchhausen, Werner, Dortmund, Germany. Electric table. 2,662,966, Dec. 15.

Bruestle, Carl O., Metuchen, assignor to Syncro Machine Company, Perth Amboy, N. J. Reel arbor lock. 2,662,702, Dec. 15.

Brundage, John H., Cocoa, Fla., assignor to International Telephone and Telegraph Corporation. Switching system. 2,663,010, Dec. 15.

Bruner, Harold E.: *See*—
Fike, Elmer A., and Bruner.

Bryant, Harold W., Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Polymerization control of vinyl acetate utilizing hydrogen peroxide. 2,662,878, Dec. 15.

Budd Company, The, assignee: *See*—
Clary, Joseph F.
Lindsay, Alexander R.

Buffalo Electro-Chemical Company, Inc., assignee: *See*—
Kauffmann, Hans O., and Whalen.

Buildice Company, Inc., assignee: *See*—
Boyle, John R.

Burdwood, Howard A., Portland, Maine. Multibladed disk knife slitting mechanism. 2,662,598, Dec. 15.

Burgess-Manning Company, assignee: *See*—
Jorn, Albert T.
Jorn, Albert T. and A.
Leadbetter, Ralph L., Chipley, and Certik.

Burggren, Robert C.: *See*—
Rusler, George W., Jr., and Burggren.

Burkey, Harry S., Lancaster, Pa. Sounding whirling disk toy. 2,662,337, Dec. 15.

Burkhardt, Harold H., assignor to Millers Falls Company, Greenfield, Mass. Power-operated rotary impact wrench. 2,662,434, Dec. 15.

Burnett, William E.: *See*—
Kubler, Otto A., and Burnett.

Burress, Lawrence O., Moline, Ill. Window opening and closing mechanism. 2,662,766, Dec. 15.

Burton, William P.: *See*—
Riblett, Earl W., Burton, and Lefrancois.

Buschow, Herman F., North Arlington, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Annular flow heat exchanger. 2,662,749, Dec. 15.

Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Collapsible partitioned carton. 2,662,683, Dec. 15.

C. E. M. Company, assignee: *See*—
Koehl, Herman J.

Caldwell, Lee M., assignee: *See*—
Dague, Harold F.

Calverley, George H., assignor to Whitman Publishing Company, Racine, Wis. Sectional toy figure. 2,662,335, Dec. 15.

Campbell, J. Allan: *See*—
Holysz, Roman P., Jr., and Campbell.

Campbell, James S., assignor to Verney Corporation, Manchester, N. H. Textile slasher. 2,662,264, Dec. 15.

Canadian Industries Limited, assignee: *See*—
Allenby, Owen C. W.

Cantalupo, Francis J.: *See*—
Schmidt, Edward G., and Cantalupo.

Cappelle, Emil R., Chicago, Ill. Coin-controlled mileage metering device. 2,662,627, Dec. 15.

Carey, Herbert C., assignor to Aldous Successors Limited, Brightlingsea, England. Boat hull construction. 2,662,237, Dec. 15.

Carley, Clyde H., North Adams, Mass. Steam generator. 2,662,506, Dec. 15.

Carlisle Corporation, assignee: *See*—
Kaebnick, Gustav A., Parr, and Otstot.

Carney, Charles S., E. H. Fritze, and L. C. Stanley, assignors to Collins Radio Company, Cedar Rapids, Iowa. Information-storing device. 2,662,944, Dec. 15.

Carpenter Container Corporation, assignee: *See*—
Carpenter, Herbert L.

Carpenter, Herbert L., Amityville, assignor to Carpenter Container Corporation, Brooklyn, N. Y. Container and closure assembly. 2,662,788, Dec. 15.

Carroll, James W., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Pickling bath agent. 2,662,857, Dec. 15.

Carter Carburetor Corporation, assignee: *See*—
Coffey, Irven E.
Schweiss, Joseph.

Carter James P., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe inseam sewing machine. 2,662,493, Dec. 15.

Casco Products Corporation, assignee: *See*—
Johnson, Arthur A.

Castner, Robert C., and R. C. Archibald, Berkeley, assignors to Shell Development Company, Emeryville, Calif. Shale oil refining. 2,662,843, Dec. 15.

Cavalier Corporation, assignee: *See*—
Wessel, Melvin H.

Celanese Corporation of America, assignee: *See*—
Palst, Walter D., and Van Gorder.
Storer, William C., and Rotruck.

Celotex Corporation, The, assignee: *See*—
Muench, Carl G.

Central Tool Company, assignee: *See*—
Stedman, James A.

Cerino, Michael J., Ventura, Calif., assignor to Firm Blade Razor Company, Inc., Portland, Oreg. Safety razor. 2,662,281, Dec. 15.

Certik, Charles P.: *See*—
Leadbetter, Ralph L., Chipley, and Certik.

Cervino, Michael, and F. Sollinger, Paterson, N. J., assignors to Curtiss-Wright Corporation. Tank construction. 2,662,538, Dec. 15.

Ceskoslovenske Textilni Zavody, narodni podnik, assignee: *See*—
Svaty, Vladimir.

Chaney, David W., Nether Providence Township, Delaware County, Pa., assignor to The Chemstrand Corporation, Decatur, Ala. Terpolymers of acrylonitrile and allyl amines. 2,662,873, Dec. 15.

Chaney, David W., Nether Providence Township, Delaware County, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala. Copolymers of acrylonitrile and allyl amines. 2,662,877, Dec. 15.

Chapman, Henry C., assignor to Stolper Steel Products Corporation, Milwaukee, Wis. Outboard motor test tank. 2,662,399, Dec. 15.

Chapman, Robert R.: *See*—
Anderson, John W., and Chapman.

Charlton, John, New York, N. Y., assignor to The Sperry Corporation. Glide path selector for blind landing systems. 2,663,017, Dec. 15.

Chattin, Robert C., Boise, Idaho. Hydraulic adjustment for V-type ditching blades. 2,662,311, Dec. 15.

Cheesman, Helen B., Peoria, Ill. Sheet. 2,662,233, Dec. 15.

Chemstrand Corporation, The, assignee: *See*—
Chaney, David W.

Cheney, Leslie W., North Attleboro, Mass., assignor to Swank, Inc. Mounting for initials or ornamental members. 2,662,323, Dec. 15.

Chesters, John H., assignor to The United Steel Companies Limited, Sheffield, England. Open hearth furnace. 2,662,761, Dec. 15.

Childress, William C., Oak Park, assignor to Signode Steel Strapping Company, Chicago, Ill. Binder-strap joint-forming tool. 2,662,431, Dec. 15.

Chipley, Alfred S.: *See*—
Leadbetter, Ralph L., Chipley, and Certik.

Chipman, John F., South Weymouth, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Grounding and testing device for metal clad switchgears. 2,662,994, Dec. 15.

Christensen, Howard, Springfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mounting for semiconductors. 2,662,997, Dec. 15.

Christensen, Leo M., Lincoln, Nebr. Producing alcohol. 2,662,842, Dec. 15.

Christensen, Paul M., West Orange, assignor to Federal Electric Products Company, Newark, N. J. Multiple circuit breaker. 2,662,948, Dec. 15.

Christensen, Paul M., West Orange, N. J., and A. R. Norden, New York, N. Y., assignors to Federal Electric Products Company, Newark, N. J. Multiple circuit breaker. 2,662,949, Dec. 15.

Christensen, Paul M., West Orange, assignor to Federal Electric Products Company, Newark, N. J. Automatic circuit breaker. 2,662,950, Dec. 15.

Christianson, George, Minneapolis, and P. E. Ramstad, St. Paul, Minn., assignors to General Mills, Inc. Preparing a hydrophilic colloid. 2,662,882, Dec. 15.

Chrysler Corporation, assignee : *See*—
Shields, Richard N.

Ciba Limited, assignee : *See*—
Menzi, Karl, Riat, and Wegmann.
Wegmann, Jacques, and Menzi.

Ciba Pharmaceutical Products, Inc., assignee : *See*—
Miescher, Karl, and Schmidlin.

Cihoski, Edward C., Jersey City, and W. C. Dale, Basking Ridge, N. J., assignors to Radio Corporation of America. Method and apparatus for forming thin-walled metal sleeves. 2,662,573, Dec. 15.

Citron, Ben, assignor, by mesne assignments, to B. Citron and P. Bernstein, Chicago, Ill. Bed sheet construction. 2,662,234, Dec. 15.

Clark, Charles W., Toronto, Ontario, and B. H. Morrison, Noranda, Quebec, assignors to Noranda Mines Limited, Toronto, Ontario, Canada. Method and apparatus for separating and classifying substantially spherical bodies into different size groups. 2,662,641, Dec. 15.

Clark, Joseph B., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Well cementing. 2,662,827, Dec. 15.

Clark, Robert H., assignee : *See*—
Wilson, Harry C.

Clark, William A., Detroit, Mich. Cushion spring structure. 2,662,588, Dec. 15.

Clary, Joseph F., Glencoe, Ill., assignor to The Budd Company, Philadelphia, Pa. Self-propelled railway car with operator's cab. 2,662,488, Dec. 15.

Cliborn, Robert, Euclid, assignor to Thompson Products, Inc., Cleveland, Ohio. Seal. 2,662,480, Dec. 15.

Cline, William H., Jr., assignor to Hughes Tool Company, Houston, Tex. Hydraulic impact tool. 2,662,505, Dec. 15.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug Inc., New York, N. Y. Tertiary-aminoalkyl 4-amino-2-benzyloxybenzoates and debenzylation thereof. 2,662,888, Dec. 15.

Clinton, Raymond O., North Greenbush, and S. C. Laskowski, Menands, assignors to Sterling Drug Inc., New York, N. Y. Tertiary-aminoalkyl 4-alkylamino-2-benzyloxybenzoates and debenzylation thereof. 2,662,889, Dec. 15.

Cockram, Reginald W. J., London, assignor to The Pyrene Company, Limited, Brentford, England. Electric switch. 2,662,945, Dec. 15.

Coe, William D., Milton-Freewater, Oreg. Recreation table. 2,662,583, Dec. 15.

Coffey, Irven E., Clayton, assignor to Carter Carburetor Corporation, St. Louis, Mo. Check valve. 2,662,723, Dec. 15.

Cole, Unus P., Glendale, Calif. Fuel valve timing gauge. 2,662,298, Dec. 15.

Colgate-Palmolive-Peet Company, assignee : *See*—
Ross, John, and Gebhart.

Collins Radio Company, assignee : *See*—
Carney, Charles S., Fritze, and Stanley.
Kohl, Walter H.
McGowan, Harold S.
Witters, Robert F.

Collins, William B., assignee : *See*—
Dague, Harold F.

Comeau, John E., Culver City, assignor to The Garrett Corporation, Los Angeles, Calif. Flow control apparatus. 2,662,547, Dec. 15.

Compagnie Generale d'Electro-Ceramique, assignee : *See*—
Schuepp, Paul.

Compagnie Generale de Telegraphie Sans Fil, assignee : *See*—
Naday, Georges.

Compagnie Geologique et Miniere des Ingenieurs et Industriels Belges "Geomines" Societe par Actions a Responsabilite Limitee, assignee : *See*—
Kroll, Adolphe V.

Compagnie Industrielle des Telephones, assignee : *See*—
Lesigne, Henri L.

Compagnie pour la Fabrication des Compteurs et Materiel d'Usines a Gaz, assignee : *See*—
Dubusc, Roger P.

Connell, George A. : *See*—
Taylor, Donald S., and Connell.

Consolidated Mining and Smelting Company of Canada, Limited, The, assignee : *See*—
Heaps, John M., and Houlden.

Container Corporation of America, assignee : *See*—
Swafford, Carl R.

Continental Oil Company, assignee : *See*—
Jensen, Warren L.

Cooney, Patricia M. : *See*—
Schwab, Arthur W., Cooney, and Evans.

Cooper, Jack R. : *See*—
McManis, Louis B., and Cooper.

Cope, T. J., Inc., assignee : *See*—
Ulberg, Frederick G. W., Jr.

Corning Glass Works, assignee : *See*—
Giffen, James W.

Corrigan, John T. : *See*—
Sherry, Peter P., and Corrigan.

Cossor, A. C., Limited, assignee : *See*—
Godeck, John E.

Couture, Georges A., Quebec City, Quebec, Canada. Traffic mirror device. 2,662,448, Dec. 15.

Cramer, Roy A., Kansas City, Mo. Resilient mounting for chair backs. 2,662,586, Dec. 15.

Crane Co., assignee : *See*—
Glauque, Charles A.
Schmidt, Edward G., and Cantalupo.

Crawford, Wayne B., Houston, Tex. Power line lift pole. 2,662,730, Dec. 15.

Crome, Lester C., West Alexandria, assignor to The Dayton Malleable Iron Company, Dayton, Ohio. Producing cast iron. 2,662,820, Dec. 15.

Cronite Co., Inc., The, assignee : *See*—
Gillis, Edmund A.

Crouch, Willie W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Drying resins from oil-modified alkyds and liquid polybutadiene. 2,662,862, Dec. 15.

Crowley, Cornelius J., assignor to The Seamless Rubber Company, New Haven, Conn. Athletic ball. 2,662,771, Dec. 15.

Crown Can Company, assignee : *See*—
Schmidt, John.

Crystal Research Laboratories, Inc., assignee : *See*—
Andersen, Walther M. A.

Culverhouse, Carl R., Jr., Birmingham, Ala., assignor to Anderson Brass Works. Bonding copper to aluminum or aluminum alloys. 2,662,831, Dec. 15.

Cunningham, Jack B., North Hollywood, and F. Wilburn, Burbank, Calif. ; said Wilburn assignor to said Cunningham. Method and apparatus for drying film by dielectric heating. 2,662,302, Dec. 15.

Curtiss-Wright Corporation, assignee : *See*—
Cervino, Michael, and Sollinger.

Dague, Harold F., Downey, assignor of one-third to W. B. Collins, Inglewood, and L. M. Caldwell, Long Beach, Calif. Manufacturing battery separators and the like. 2,662,929, Dec. 15.

Dale, William C. : *See*—
Cihoski, Edward C., and Dale.

Dalmo Victor Company, assignee : *See*—
McGogy, Donald H.

Daly, Francis R., Minneapolis, Minn. Transportable shelter. 2,662,232, Dec. 15.

Dan River Mills, Incorporated, assignee : *See*—
Gagarine, Dmitry M., Smith, and Spangler.

Darlaston, Arthur J. H., Hertford, England, assignor to General Electric Company. Settling of fluorescent screens. 2,662,830, Dec. 15.

Davis, Frank F., and S. G. Richmond, assignors to E. J. Longyear Company, Minneapolis, Minn. Core bit. 2,662,738, Dec. 15.

Dayton Malleable Iron Company, The, assignee : *See*—
Crome, Lester C.

Dearborn Motors Corporation, assignee : *See*—
Bartling, Loren E.
De Brabant, Hector M.
Sawyer, Frederick D.

De Boy, Marvin F., Buffalo, assignor, by mesne assignments, to Sylvania Electric Products Inc., New York, N. Y. Cathode-ray tube support. 2,663,011, Dec. 15.

De Brabant, Hector M., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Fabricating plow moldboards. 2,662,268, Dec. 15.

Decker, Roy L., assignor of one-half to C. G. Smith, Seattle, Wash. Vacuum storage unit for ground coffee. 2,662,664, Dec. 15.

Dedo, Homer H., Merced, Calif. Length-assorting and conveying apparatus for lumber after deknotting operations. 2,662,640, Dec. 15.

Deere & Company, assignee : *See*—
Lindeman, Jesse G., and Edwards, Roscoe, Merrill W.

Deere Manufacturing Co., assignee : *See*—
Newmaster, Walter H.

De Gasero, Charles, New Hyde Park, N. Y. Single reed cell block. 2,662,440, Dec. 15.

Degen, Wilhelm, Frankfurt am Main, Germany. Shaking device for layer and loose materials. 2,662,750, Dec. 15.

De Lateur, Joseph A., Denver, Colo. Automatically actuated trailer brake. 2,662,616, Dec. 15.

De Laval Separator Company, The, assignee : *See*—
Spross, Hubert M.

De Mart, Le Roy S., assignor to Diamond Power Specialty Corporation, Detroit, Mich. Soot blower of the short-travel retracting type. 2,662,241, Dec. 15.

Dent, William C. : *See*—
Ballard, Alfred G., Dent, Broscomb, and Watt.

De Pillot de Coligny, Guerric, Versailles, France. Microwave antenna. 2,663,016, Dec. 15.

De Rosa, Louis A., Bloomfield, N. J., assignor to International Telephone and Telegraph Corporation. Radio impulse system for oscillograph calibration. 2,662,977, Dec. 15.

Detrex Corporation, assignee : *See*—
Duncan, Ira J.

De Villota, Carlos, San Sebastian, Spain. Automatically reversible current-driven channel cleaner. 2,662,310, Dec. 15.

Dewey and Almy Chemical Company, assignee : *See*—
Shilling, William C., and Wright.

Diamond Power Specialty Corporation, assignee : *See*—
De Mart, Le Roy S.
Good, James A.

Dickey, Paul S. : *See*—
Rutherford, Victor S., Hornfeck, and Dickey.

Diessl, Ernst, Braunschweig, Germany. Electric plug and socket coupling. 2,663,007, Dec. 15.

Di Lorenzo, Giuseppe, Milan, Italy. Internal-combustion pump. 2,662,487, Dec. 15.

Dimmock, Norman A., Woking, assignor to Power Jets (Research and Development) Limited, London, England. Gaseous fluid flow system. 2,662,553, Dec. 15.

Dirksen, Paul F. : *See*—
Squyer, Albert R., and Dirksen.

Diversey Corporation, The, assignee : *See*—
Swihart, John R.

Doak Aircraft Company, Inc., assignee : *See*—
Ozenne, Gilbert J.

Dobrogowski, Daniel T., Milwaukee, R. M. Roen, Greenfield, and R. H. Jones, West Allis, assignors to Milwaukee Stamping Company, Milwaukee, Wis. Automatic record changer for various record sizes. 2,662,772, Dec. 15.

Doehlemann, Ernst : *See*—
Kaess, Franz, and Doehlemann.
Kaess, Franz, Doehlemann, and Vogel.

Donohue, Joseph T., assignee : *See*—
Blanchi, Peter, and Rothwell.

Dorff, Louis A., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Arrangement for single-channel time sharing. 2,662,974, Dec. 15.

Dorschner, Oskar, Bad Homburg vor der Hohe, W. Wenzel, Frankfurt am Main, and H. G. Kayser, Frankfurt am Main Eschersheim, assignors to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany. Temperature control in the catalytic hydrogenation of carbon monoxide. 2,662,911, Dec. 15.

Doster, Oscar : *See*—
Samuels, Benjamin L., and Doster.

Douglas, Alvin P., Cleveland, and L. J. Walters, Shaker Heights, assignors to The Murray Ohio Manufacturing Company, Cleveland, Ohio. Baby walker. 2,662,579, Dec. 15.

Douglass, Emory W., and P. S. Dunn, Carlsbad, N. Mex., assignors to Potash Company of America, Denver, Colo. Heat exchanger for producing granular salt products. 2,662,742, Dec. 15.

Dourdeville, Theodore A., Holden, assignor to David Gessner Company, Worcester, Mass. Mechanism for maintaining alignment of an apron in a textile machine. 2,662,767, Dec. 15.

Douthitt, Maurice V. : *See*—
Kraus, Edwin C., and Douthitt.

Dow Corning Corporation, assignee : *See*—
Sommer, Leo H.

Doyle, Thomas J., Milton, assignor to Tubular Rivet and Stud Company, Quincy, Mass. Die quenching apparatus. 2,662,537, Dec. 15.

Dresser Operations, Inc., assignee : *See*—
Reeder, William H., III.

Dubusc, Roger P., Boulogne, assignor to Compagnie pour la Fabrication des Compteurs et Materiel d'Usines a Gaz, Montrouge, France. Scribable coating composition. 2,662,828, Dec. 15.

Duncan, George D., Jr., Fulton, Mo. Timber-moving saw attachment for tractors. 2,662,561, Dec. 15.

Duncan, Ira J., assignor to Detrex Corporation, Detroit, Mich. Composition and method for removing hardened silicone resin glazes from metal surfaces. 2,662,837, Dec. 15.

Dunn, Parker S. : *See*—
Douglass, Emory W., and Dunn.

Du Pont, E. I., de Nemours & Company, assignee : *See*—
Bristol, John E., Harrington, and Turnbull.
Bristol, John E., and Turnbull.
Bryant, Harold W.
Johnson, Paul R.
Lontz, John F., and Raasch.
Nadler, Martin L.
Pedersen, Charles J.

Dusenberry, John W. : *See*—
Martiniak, Leonard J., and Dusenberry.

Dwyer, F. W., Mfg. Co., assignee : *See*—
Dwyer, James G.

Dwyer, James G., Deerfield, Ill., assignor to F. W. Dwyer Mfg. Co. Manometer. 2,662,409, Dec. 15.

E Z Paintr Corporation, assignee : *See*—
Nash, Paul F.

Eagle Lock Company, The, assignee : *See*—
Zavolco, Stephen V.

Eakin, Lourie L., Ventura, Calif. Vehicle loading and unloading apparatus. 2,662,654, Dec. 15.

Eastman, Fred C., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,662,492, Dec. 15.

Eastman Kodak Company, assignee : *See*—
Hagemeyer, Hugh J., Jr., and Anderson, Robeson, Charles D.

Eberhart, Dale R., Middlesex, and N. K. Barabutes, New Brunswick, N. J., assignors to American Cyanamid Company, New York, N. Y. Diaminofluorene derivatives. 2,662,913, Dec. 15.

Eckert-Mauchly Computer Corporation, assignee : *See*—
Gordon, Bernard M.

Edelberg, Vladimir, Tunis, Tunisia. Automatic control of slips of drill pipe strings of sounding holes. 2,662,737, Dec. 15.

Edgerton, William H., Huntington Woods, assignor to Parke, Davis & Company, Detroit, Mich. Chloramphenicol esters and obtaining same. 2,662,906, Dec. 15.

Edwards, Curtis V. : *See*—
Lindeman, Jesse G., and Edwards.

Ehrsam, J. B., & Sons Mfg. Co., The, assignee : *See*—
Kelley, Hugh.

Eisler, Paul, London, England. Electrical resistor or semiconductor. 2,662,957, Dec. 15.

Electric Game Company, The, assignee : *See*—
Fisher, William.

Electrom, assignee : *See*—
Vintennon, André L.

Elliot, Theodore Q., Tulsa, Okla., and J. C. Weaver, Jr., Brownsville, Tex., assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Distillation of cyclopentanone from 2-methyl-1-butanol and 3-methyl-1-butanol. 2,662,847, Dec. 15.

Eller, Robert L., Spokane, Wash. Hydraulic pump or motor. 2,662,484, Dec. 15.

Ellis, David G., assignor to The Harshaw Chemical Company, Cleveland, Ohio. Electrodeposition of nickel. 2,662,853, Dec. 15.

Ellison, Lynn E., Crystal Lake, assignor to The Pure Oil Company, Chicago, Ill. Electronic pressure indicator. 2,662,408, Dec. 15.

Emerson, William G., Jr., Somerville, and J. R. Quelly, Union, N. J., assignors to Standard Oil Development Company. Extractive distillation purification of acetone. 2,662,848, Dec. 15.

Emhart Manufacturing Company, assignee : *See*—
Giffen, James L.
Ross, Alexander H.

Emrick, Melvin H., Jamaica, N. Y. Jaw control for chuck devices. 2,662,774, Dec. 15.

Engel, Willem F., and P. Krijger, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Production of molded alumina carrier and catalyst. 2,662,860, Dec. 15.

Erkelens, Johannes, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Adjustable impedance, for example adjustable resistors. 2,662,955, Dec. 15.

Erney, Robert E., Wapato, Wash. Grape hoe guided by tractor steering mechanism. 2,662,458, Dec. 15.

Ernst, Walter : *See*—
Boller, William D., Berkley, Ernst, and Landmeier.

Eshrich, Charles H. : *See*—
Rhinehart, John R., and Eshrich.

Ethyl Corporation, assignee : *See*—
Humphreys, David D.

Evans, Cyril D. : *See*—
Schwab, Arthur W., Cooney, and Evans.

Fairbank, Murry N., Belmont, assignor to Polaroid Corporation, Cambridge, Mass. Combined shutter and diaphragm mechanism for cameras. 2,662,457, Dec. 15.

Farr, Willard H., assignor to Stewart Warner Corporation, Chicago, Ill. Hour meter. 2,662,365, Dec. 15.

Farrell-Birmingham Company, Incorporated, assignee : *See*—
Schnuck, Carl F., and Whittum.

Farren, Leslie I., and N. E. Head, Sudbury, Wembley, and M. M. Levy, Earls Court, assignors to The General Electric Company, Limited, London, England. Electric pulse signaling system. 2,662,979, Dec. 15.

Farren, William R., Kennett Square, Pa., assignor to Atlas Powder Company, Wilmington, Del. Making explosive assemblies. 2,662,441, Dec. 15.

Fawick, Thomas L., Cleveland, Ohio, assignor, by mesne assignments, to Federal Fawick Corporation. Assembly for clutches and brakes. 2,662,625, Dec. 15.

Fawick, Thomas L., Cleveland, Ohio, assignor, by mesne assignments, to Federal Fawick Corporation. Rotary fluid seal. 2,662,785, Dec. 15.

Faximile Inc. assignee : *See*—
Schwartz, Robert S.

Federal Electric Products Company, assignee : *See*—
Christensen, Paul M.
Christensen, Paul M., and Norden.

Federal Fawick Corporation, assignee : *See*—
Fawick, Thomas L.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Warner, Arthur J.
Feigenbaum, Wilberd F., assignee: *See*—
Allenbaugh, Ralph.
Fellows, Frank H., Cleveland, and H. H. Gorrie, Cleveland Heights, Ohio, assignors to Bailey Meter Company. Control apparatus. 2,662,309, Dec. 15.
Fellows Gear Shaper Company, The, assignee: *See*—
Praeg, Walter S.
Ferguson, Alan C., assignor to Hyde Manufacturing Company, Southbridge, Mass. Multipoint removable blade knife. 2,662,287, Dec. 15.
Ferguson, Harry, Inc., assignee: *See*—
Klemm, Herman G., and Nelson.
Ferguson, J Allen, assignor, by mesne assignments, to Bechik Products, Inc., St. Paul, Minn. Handle for inner spring mattresses and the like. 2,662,235, Dec. 15.
Ferrari, Ernest R., Vancouver, Wash. Saw tooth shaper with wear faces. 2,662,426, Dec. 15.
Fields, Arnold C., Medfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic precipitator. 2,662,608, Dec. 15.
Fike, Elmer A., Nitro, W. Va., and H. E. Bruner, Akron, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Water-insoluble salts of dithiocarbamic acid made rapidly water dispersible and compositions thereof. 2,662,841, Dec. 15.
Finan, Thomas J., Detroit, Mich. Deflated tire warning device. 2,663,009, Dec. 15.
Firm Blade Razor Company, Inc., assignee: *See*—
Cerino, Michael J.
Fisher, Clemence W., West Haven, Conn. Car wheel lubricator. 2,662,611, Dec. 15.
Fisher, Edward G.: *See*—
Fisher, Milton W. and E. G.
Fisher, Milton W. and E. G., Miami, Fla. Precast picket fence. 2,662,739, Dec. 15.
Fisher, William, Willimansett, assignor to The Electric Game Company, Holyoke, Mass. Switch mechanism. 2,662,941, Dec. 15.
Fishlove, Irving H., Chicago, Ill. Denture simulating toy. 2,662,334, Dec. 15.
Flight, Theodore N., Farnham Common, and W. H. Wilson, Camberley, assignors to The Rheostatic Company Limited, Slough, England. Electrical resistance unit. 2,662,958, Dec. 15.
Flinn, George E., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission control. 2,662,418, Dec. 15.
Folkers, Karl: *See*—
Holly, Frederick W., Shunk, and Folkers.
Fordyce, Rufus G., Glencoe, assignor to Luminous Processes, Inc., Chicago, Ill. Stenciling machine. 2,662,470, Dec. 15.
Fort, Frank, and E. C. Krug, assignors to The Timken Roller Bearing Company, Canton, Ohio. Machine for wiping in hardened inserts for rock drill bits. 2,662,500, Dec. 15.
Foster, Charles E., Indianapolis, Ind. Thread-gauging device. 2,662,300, Dec. 15.
Foster, Edwin E., Austin, Tex. Folding ironing board. 2,662,318, Dec. 15.
Foster, Richard A., and C. G. Laspe, Long Beach, assignors to Shell Development Company, San Francisco, Calif. Separation of geometrical isomers by urea complex formation. 2,662,879, Dec. 15.
Fountain, Howard D., Iowa City, Iowa. Post puller. 2,662,729, Dec. 15.
Franck, George E., Riverside, Ill., assignor to The Imperial Brass Manufacturing Company. Tube flaring tool. 2,662,574, Dec. 15.
Fray, Victor H., Auckland, New Zealand. Thread rolling apparatus. 2,662,430, Dec. 15.
Freholm, John L., Ashland, Ky., assignor to Armco Steel Corporation, Middletown, Ohio. Apparatus for handling metal sheets. 2,662,630, Dec. 15.
French, Louis O., Milwaukee, Wis. Fuel injection apparatus. 2,662,476, Dec. 15.
French, Louis O., Milwaukee, Wis. Compression ignition internal-combustion engine. 2,662,510, Dec. 15.
French, Oliver S., Detroit, and D. P. Marquis, Ferndale, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Adjustable tie rod. 2,662,420, Dec. 15.
Frenger, Gunnar, Røa, V. Aker, Norway. Suspended panel type air conditioner. 2,662,743, Dec. 15.
Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Means for gravure printing of typographical characters. 2,662,455, Dec. 15.
Frey, Hans J., Zollikon, assignor to E. Gretener, Zurich, Switzerland. Thermomechanical control system 2,662,992, Dec. 15.
Frez-O-Mat Corporation, assignee: *See*—
Sutton, Myer S.
Fritze, Edgar H.: *See*—
Carney, Charles S., Fritze, and Stanley.
Frykdahl, Carl E. H., Duluth, Minn., assignor to International Telephone and Telegraph Corporation. Cabinet construction. 2,662,660, Dec. 15.
Fuger, Frederick W., Grosse Pointe, Mich. Portable kiln. 2,662,263, Dec. 15.
G. K. N. Group Services Limited, assignee: *See*—
Ballard, Alfred G., Dent, Broscomb, and Watt.
Gagarine, Dmitry M., W. B. Smith, Jr., and M. J. Spangler, Danville, Va., assignors to Dan River Mills, Incorporated. Modified methylol melamines and making and using same. 2,662,872, Dec. 15.
Gagne, Arthur L., San Francisco, Calif. Pump for feeding molten metal. 2,662,256, Dec. 15.
Gallagher, William P., assignor to International Register Company, Chicago, Ill. Cutting machine drive means. 2,662,413, Dec. 15.
Garrett Corporation, The, assignee: *See*—
Comeau, John E.
Gaylor, Peter J., Union, N. J. Method and apparatus for providing a continuous supply of heat sterilized water. 2,662,508, Dec. 15.
Gaylord Products, Incorporated, assignee: *See*—
Weaver, Ruth K., Wingblade, and Thatcher.
Gebhart, Arthur I.: *See*—
Ross, John, and Gebhart.
Gebrueder Boehringer G. m. b. h., assignee: *See*—
Irtenkauf, Josef, and Grupp.
Geeven, Gomarus M. A. C., and J. A. L. Yzer, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Burner and heater device with plurality of whirl chambers. 2,662,370, Dec. 15.
Geldhof, Peter E.: *See*—
Morrison, Harold E., Geldhof, and Ringer.
General Aniline & Film Corporation, assignee: *See*—
Randall, David I., and Renfrew.
General Electric Company, assignee: *See*—
Ballard, Robert G., and Lundberg.
Borman, Philip K.
Darlaston, Arthur J. H.
Harbison, George C.
Hogg, Francis M.
Horvay, Julius B.
Krause, Paul W.
Lundberg, John E., and Wallace.
Martiniak, Leonard J., and Dusenberry.
McKim, James A.
Weeks, Walter R.
General Electric Company, Limited, The, assignee: *See*—
Farren, Leslie I., Head, and Levy.
James, Emrys G., and Lindell.
General Mills, Inc., assignee: *See*—
Christianson, George, and Ramstad.
Van Guilder, Walter.
General Motors Corporation, assignee: *See*—
Lincoln, Clovis W., and Schroeder.
Long, George R.
Lovell, Wheeler G., and Phillips.
Martin, Edward J.
Schwarz, Bertram A.
General Railway Signal Company, assignee: *See*—
Howard, James Y.
Gerst, Chris, Detroit, Mich., assignor, by mesne assignments, to Le Roi Company, Milwaukee, Wis. Concrete mixer. 2,662,755, Dec. 15.
Gessner, David, Company, assignee: *See*—
Dourdeville, Theodore A.
Glauque, Charles A., Berwyn, assignor to Crane Co., Chicago, Ill. Valve. 2,662,721, Dec. 15.
Gibbs, William J., East Rockaway, N. Y., assignor to American Machine and Foundry Company. Self-leveling dispenser. 2,662,802, Dec. 15.
Glenger, Fred, Highland Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Duplex wire cable slitting device. 2,662,283, Dec. 15.
Giffen, James L., Hudson, N. Y., assignor, by mesne assignments, to Emhart Manufacturing Company. Anti-backlash servo clutch. 2,662,624, Dec. 15.
Giffen, James W., assignor to Corning Glass Works, Corning, N. Y. Glass severing apparatus. 2,662,289, Dec. 15.
Giffen, James W., assignor to Corning Glass Works, Corning, N. Y. Method and apparatus for forming glass. 2,662,346, Dec. 15.
Giffen, James W., assignor to Corning Glass Works, Corning, N. Y. Glass forming mold. 2,662,347, Dec. 15.
Gilbert & Barker Manufacturing Company, assignee: *See*—
Grisé, Alfred L.
Logan, Joseph A., and Robinson.
Gilbert, Roswell W., Montclair, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Integrating apparatus. 2,662,689, Dec. 15.
Gill, Willie, Montreal, Quebec, Canada, and S. S. Nicholson, River Edge, N. J., assignors to American Can Company, New York, N. Y. Shipping package. 2,662,649, Dec. 15.
Gille, Willis H., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Aircraft control system. 2,662,706, Dec. 15.
Gillis, Edmund A., Oceanside, assignor to The Cronite Co., Inc., New York, N. Y. Intaglio engraving press. 2,662,471, Dec. 15.
Glenn, Marlow, San Francisco, Calif. Time zone indicator system. 2,662,368, Dec. 15.
Glidden Company, The, assignee: *See*—
Julian, Percy L., Meyer, and Ryden.

Glynn, Emmett P., Chicago, Ill., and B. F. Hofferth, Ames, Iowa, assignors to Armour and Company, Chicago, Ill Treating tall oil. 2,662,849, Dec. 15.
Godeck, John E., assignor to A. C. Cossor Limited, London, England. Position indicating system. 2,663,014, Dec. 15.
Goebel, Ernst: *See*—
Höfges, Heinz, and Goebel.
Goldberg, David C., and R. E. Schafer, assignors to Hamilton Watch Company, Lancaster, Pa. Hardness tester. 2,662,397, Dec. 15.
Golding Bros. Company, Inc., assignee: *See*—
Lamport, Samuel H.
Goldman, Arthur: *See*—
Kleiman, Morton, and Goldman.
Goldman, Sylvan N., Oklahoma City, Okla. Pivoted partition for wire receptacles. 2,662,661, Dec. 15.
Goldman, Sylvan N., Oklahoma City, Okla. Child seat for store service carriers. 2,662,775, Dec. 15.
Goldstine, Hallan E., Port Jefferson Station, N. Y., assignor to Radio Corporation of America. Coupling circuit for use in cathode coupled circuits. 2,662,938, Dec. 15.
Gomersall, John R., and M. Ireland, assignors to McGraw Electric Company, Elgin, Ill. Electric iron handle construction. 2,662,317, Dec. 15.
Good, James A., Grosse Pointe, Mich., assignor to Diamond Power Specialty Corporation. Radiation-absorption type liquid level indicator. 2,662,985, Dec. 15.
Goodell, Leslie H., St. Francis, Kans., and I. E. Goodell, Haigler, Nebr. Disk rolling machine. 2,662,572, Dec. 15.
Goodell, Leverett E.: *See*—
Goodell, Leslie H. and L. E.
Goodman, Jack J., Bronx, N. Y. Pattern grading tool 2,662,299, Dec. 15.
Goodrich, B. F., Company, The, assignee: *See*—
Antlfinger, George J.
Brown, Harold P.
Hoertz, Joseph B.
Spaulding, David C.
Goodyear Aircraft Corporation, assignee: *See*—
Ames, Robert S.
Gordon, Bernard M., assignor to Eckert-Mauchly Computer Corporation, Philadelphia, Pa. Single tube binary counter. 2,662,983, Dec. 15.
Gordon, Richard A., Brooklyn, N. Y. Making trimming. 2,662,577, Dec. 15.
Gorrie, Harvard H.: *See*—
Fellows, Frank H., and Gorrie.
Gosselin, Joseph D., Attleboro, Mass., assignor to Swank, Inc. Mounting for initials or ornamental members. 2,662,322, Dec. 15.
Gottfried, Louis, New York, N. Y. Rocker attachment unit for chairs. 2,662,580, Dec. 15.
Gottfried, Louis, New York, N. Y. Rocker attachment unit for chairs. 2,662,581, Dec. 15.
Gottscho, Adolph, Inc., assignee: *See*—
Gottscho, Ira S.
Gottscho, Ira S., Milburn, assignor to Adolph Gottscho, Inc., Hillside, N. J. Marking device. 2,662,469 Dec. 15.
Gowland, John P., Santa Barbara, Calif. Collapsible picture viewing device. 2,662,442, Dec. 15.
Gradisar, Albin A., Snyder, N. Y., assignor to American Optical Company, Southbridge, Mass. Adjustment mechanism for microscopes. 2,662,444, Dec. 15.
Graflex, Inc., assignee: *See*—
Nerwin, Hubert.
Steiner, Oscar.
Graham, Harold J., Highland Park, and P. F. Powder, assignors to Graham Manufacturing Corporation, Detroit, Mich. Orienting device. 2,662,626, Dec. 15.
Graham Manufacturing Corporation, assignee: *See*—
Graham, Harold J., and Powder.
Granacher, John K., San Francisco, Calif. Flagpole ornament. 2,662,324, Dec. 15.
Graziano, Sam F., Tampa, Fla. Fluid flow dual port control valve. 2,662,722, Dec. 15.
Green, Robert H., Rocky River, assignor, by mesne assignments, to The Otto Konigslow Mfg. Co., Cleveland Ohio. Support for electrically heated tools. 2,662,962, Dec. 15.
Greenberger, Joseph I., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Joining sections of strip for a uniform-speed continuous-feed strip-treating line. 2,662,271, Dec. 15.
Greenlee, Eli M., Newport, Ky. Saw sharpening file guide. 2,662,423, Dec. 15.
Gretener, Edgar, assignee: *See*—
Frey, Hans J.
Gretener, Edgar, Zurich, Switzerland. Arc lamp regulating device. 2,662,991, Dec. 15.
Grisé, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Priming means for centrifugal pumps. 2,662,481, Dec. 15.
Grove, Russell E., Fresno, Calif. Apparatus adapted to the cutting, shaping, or forming of structural members. 2,662,563, Dec. 15.
Grover, Donald P., Chicago, Ill. Rotary toothbrush. 2,662,239, Dec. 15.
Grupp, Alfons: *See*—
Irtenkauf, Josef, and Grupp.
Guilberteau, Milton J., assignee: *See*—
Moragne, Edward L.
Gulf Research & Development Company, assignee: *See*—
Montgomery, Charles W., and Horne.
Gurley, W. & L. E., assignee: *See*—
Loeck, Günther F. E.
Haarmann & Reimer, Chemische Fabrik zu Holzminden G. m. b. H., assignee: *See*—
Schuler, Wilhelm.
Hagan Corporation, assignee: *See*—
Markson, Alfred A.
Hagemeyer, Hugh J., Jr., Kingsport, Tenn., and D. C. Anderson, Charlotte, N. C., assignors to Eastman Kodak Company, Rochester, N. Y. Hydrolysis of alkenyl alkyl ethers in the vapor phase. 2,662,919, Dec. 15.
Hagstrom, Gotthard, Greenwich, Conn., assignor to The Safe Padlock and Hardware Company Lancaster, Pa Door lock. 2,662,387, Dec. 15.
Haister, George, New York, N. Y. Measuring-marking space gauge. 2,662,290, Dec. 15.
Hall, Axel W., Still River, Mass. Drain valve mechanism for fluid pressure systems. 2,662,544, Dec. 15.
Hall, C. P., Company of Illinois, The, assignee: *See*—
Logan, Roger L.
Haloid Company, The, assignee: *See*—
Middleton, Arthur E., and Mengali.
Hamilton Watch Company, assignee: *See*—
Goldberg, David C., and Schafer.
Koehler, Fred.
Hammon, Lester, Poplar Bluff, assignor of fifty percent to E. A. Maddux, Butler County, Mo. Cultivator. 2,662,462, Dec. 15.
Hammond, Joseph, Rockford, Ill. Barber's clipper holder. 2,662,719, Dec. 15.
Hanes, Roger A., and H. E. Luebbers, Fort Dodge, Iowa. Brake pedal holding device. 2,662,728, Dec. 15.
Hans, Edmund E., assignee: *See*—
Wuerfel, Donald F.
Hansen, Edward F., Stanton, assignor to The Baker Castor Oil Company, Jersey City, N. J. Hulling machine having rubber hulling surfaces of different hardness. 2,662,570, Dec. 15.
Hanson, Henry L., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Burner control apparatus. 2,662,591, Dec. 15.
Harbison, George C., Erie, Pa., assignor to General Electric Company. Refrigerator breaker strip assembly. 2,662,254, Dec. 15.
Harmes, Oren B., assignor to Livingston Tool Co., Algona, Iowa. Predetermined torque release wrench. 2,662,435, Dec. 15.
Harmes, Oren B., assignor to Livingston Tool Co., Algona, Iowa. Predetermined torque release socket wrench. 2,662,436, Dec. 15.
Harper, Lyndus E., Skokie, Ill., assignor to Omega Machine Company, Providence, R. I. Controlling apparatus. 2,662,665, Dec. 15.
Harrington, Warren A.: *See*—
Bristol, John E., Harrington, and Turnbull.
Harshaw Chemical Company, The, assignee: *See*—
Ellis, David G.
Hartford National Bank and Trust Company, trustee, assignee: *See*—
Brandt, Adrianus
Erkelens, Johannes.
Geeven, Gomarus M. A. C., and Yzer
Unk, Jacob M., Scheffer, and Pennekamp.
Wijchman, Jan.
Hasko Trays, Inc., assignee: *See*—
Potchen, Joseph A.
Hawkinson, Earle W., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Retread mold construction. 2,662,244, Dec. 15.
Hawkinson, Earle W., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Retread mold construction. 2,662,245, Dec. 15.
Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Earle W.
Hayward, Arthur S.: *See*—
Scott, Richard H., and Hayward.
Head, Norman E.: *See*—
Farren, Leslie I., Head, and Levy.
Heal, Paul E., assignor to The Pure Oil Company, Chicago, Ill. Gauge. 2,662,295, Dec. 15.
Heaps, John M., Trail, British Columbia, and B. Houlden, Rossland, British Columbia, assignors to The Consolidated Mining and Smelting Company of Canada, Limited, Montreal, Quebec, Canada. Wind box for sintering machines. 2,662,763, Dec. 15.
Hedstrom, Otto: *See*—
Black, James, and Hedstrom.
Heffernan, Arthur E.: *See*—
Swanson, Alma, and Heffernan.
Heim Company, The, assignee: *See*—
Heim, Lewis R.
Heim, Lewis R., assignor to The Heim Company, Fairfield, Conn. Sweepstick. 2,662,557, Dec. 15.
Helmos, Milton J.: *See*—
Belcher, Daniel, Williams, and Helmos.
Heinrich, Oswald X., Philadelphia, Pa. Apparatus for centrifugal separation of suspended particles. 2,662,610, Dec. 15.

Helmuth, Richard E., Carmel, assignor to Ransburg Electro-Coating Corp., Indianapolis, Ind. Electrostatic coating method and apparatus. 2,662,833, Dec. 15.
Henderson, Eldon C., Paso Robles, Calif. Parking attachment for automobiles. 2,662,604, Dec. 15.
Hendrix, Joy, Kirkwood, Mo. Skid device for unloading trucks. 2,662,613, Dec. 15.
Henn, Albert C. L., and H. W. Peterson, Jr., Somerville, N. J., assignors to Standard Oil Development Company. Making refined sugar cane wax. 2,662,907, Dec. 15.
Henry, Clyde E., Nevada, Mo. Casting rod. 2,662,329, Dec. 15.
Hercules Powder Company, assignee: *See*—
Batdorf, Jack B.
Bent, Franklin N.
Jenkins, Roy H., Jr.
Hertzler, Ralph S., Elverson, Pa. Harvesting machine. 2,662,414, Dec. 15.
Herzog, Eleanor G., executrix: *See*—
Herzog, Joseph L.
Herzog, Joseph L., deceased, New York, N. Y., by E. G. Herzog, executrix, assignor to R. S. Herzog, New York, N. Y., and M. S. Herzog, Denver, Colo. Record keeping machine and card units. 2,662,528, Dec. 15.
Herzog, Michael S., assignee: *See*—
Herzog, Joseph L.
Herzog, Robert S., assignee: *See*—
Herzog, Joseph L.
Hess, Alexander McD., Jamaica, N. Y. Hinge accessory. 2,662,242, Dec. 15.
Hicks, Russell, assignee: *See*—
Unsinger, Philip H.
Higgins, Jason E., Kermit, Tex. Gauge reel brake and wiper. 2,662,700, Dec. 15.
High Vacuum Processes, Inc., assignee: *See*—
Rutherford, Charles F., Tease, and Troxell.
Hilger, Ben R., Fort Stockton, Tex. Sand agitator for well pumps. 2,662,486, Dec. 15.
Hillgren, Carl A., Huntington Park, Calif. Door lock. 2,662,386, Dec. 15.
Hillgren, Carl A., Huntington Park, Calif. Door lock. 2,662,388, Dec. 15.
Hinde & Dauch Paper Company, The, assignee: *See*—
Shenigo, Michael G.
Hirsh, Philip R., Montclair, assignor to Lock Joint Pipe Company, East Orange, N. J. Pipe and making the same. 2,662,555, Dec. 15.
Hoertz, Joseph B., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Stabilizing aqueous dispersons of haloethylene polymers. 2,662,867, Dec. 15.
Hofferth, Burt F.: *See*—
Glynn, Emmett P., and Hofferth.
Hoffman, Roscoe C., Detroit, Mich. Transmission. 2,662,800, Dec. 15.
Hoffmann-La Roche Inc., assignee: *See*—
Kimel, Walter.
Höfges, Heinz, and E. Goebel, Hamborn, Germany. Production of transformer and dynamo steels. 2,662,819, Dec. 15.
Hogg, Francis M., Findley Lake, N. Y., assignor to General Electric Company. Door latching mechanism. 2,662,790, Dec. 15.
Holly, Frederick W., Cranford, C. H. Shunk, Westfield, and K. Folkers, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Preparation of N-glycosides of 5,6 dimethyl benzimidazoles. 2,6662,883, Dec. 15.
Holvsz, Roman P., Jr., and J. A. Campbell, assignors to The Upjohn Company, Kalamazoo, Mich. Halogenation process. 2,662,903, Dec. 15.
Hopson, Joseph W., Miami, Fla. Selective backup control means for tractor-trailer undercarriage. 2,662,781, Dec. 15.
Horne, William A.: *See*—
Montgomery, Charles W., and Horne.
Hornfeck, Anthony J.: *See*—
Rutherford, Victor S., Hornfeck, and Dickey.
Hortman, Harvey E., Jr., Southampton, assignor to Proctor Electric Company, Philadelphia, Pa. Ironing table. 2,662,319, Dec. 15.
Horvath, Alexander, Clifton, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Coaxial line resonator electron discharge device arrangement. 2,662,937, Dec. 15.
Horvath, Joseph P.: *See*—
Postel, Kenneth L., and Horvath.
Horvay, Julius B., Erie, Pa., assignor to General Electric Company. Magnetic latch. 2,662,787, Dec. 15.
Houdry Process Corporation, assignee: *See*—
Shabaker, Hubert A.
Houlden, Basil: *See*—
Heaps, John M., and Houlden.
Howard, James Y., Greece, assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,662,971, Dec. 15.
Hoysak, Edward G.: *See*—
Moshier, Edson G., and Hoysak.
Hubbard, John S.: *See*—
Hubbard, Oscar S. and J. S.
Hubbard, Oscar S. and J. S., Farmland, Ind. Wrecking truck. 2,662,652, Dec. 15.
Huber, Ludwig R., Uberlingen am Boden See, Germany, assignor, by mesne assignments, to Swingfire (Bahamas) Limited, Nassau, Bahamas. Heat exchanger with adjustable casing for varying recirculation. 2,662,748, Dec. 15.
Hudgins, Archibald P., Charleston, W. Va. Tenacular needle. 2,662,524, Dec. 15.
Hughes Tool Company, assignee: *See*—
Cline, William H., Jr.
Humphreys, David D., Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y. Dehydrochlorination of polychlorocyclohexanes. 2,662,924, Dec. 15.
Hunt, George D., assignor to The Ohio Thermometer Company, Springfield, Ohio. Thermometer and manufacture thereof. 2,662,407, Dec. 15.
Hunter, Lee, Jr., University City, Mo. Wheel balancing device. 2,662,396, Dec. 15.
Huntington, William L., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Automatic pilot. 2,662,704, Dec. 15.
Hurley, Robert E., Moorestown, N. J., assignor to Radio Corporation of America. Elliptical conoidal sound reproducing diaphragm. 2,662,606, Dec. 15.
Hurst, Gladstone R., Oklahoma City, Okla. Golf club carrier. 2,662,770, Dec. 15.
Hutton, Ulric O., Brinklow, Md., assignor to the United States of America as represented by the Secretary of the Army. Recording disk clamping device. 2,662,804, Dec. 15.
Hyde Manufacturing Company, assignee: *See*—
Ferguson, Alan C.
Hydrocarbon Research, Inc., assignee: *See*—
Buschow, Herman F.
Kalbach, John C.
Ilfrey, Allen H., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Well pump. 2,662,485, Dec. 15.
Illinois Testing Laboratories, Inc., assignee: *See*—
Obermaier, Alfred A.
Imperial Brass Manufacturing Company, The, assignee: *See*—
Franck, George E.
Ince, Daniel B., Jr., Redondo Beach, and D. V. Shafer, Inglewood, Calif., assignors to North American Aviation, Inc. Flight test head. 2,662,402, Dec. 15.
Ingram, Paul, assignor to Thompson Products, Inc., Cleveland, Ohio. Slug feed device. 2,662,760, Dec. 15.
International Register Company, assignee: *See*—
Gallagher, William P.
International Standard Electric Corporation, a signee: *See*—
Horvath, Alexander.
International Telephone and Telegraph Corporation, assignee: *See*—
Brundage, John H.
De Rosa, Louis A.
Frykdahl, Carl E. H.
Intertype Corporation, assignee: *See*—
Freund, Herman R.
Iobbi, Alfred, Trevose, Pa. Surface dressing machine. 2,662,351, Dec. 15.
Ireland, Murray: *See*—
Comersall, John R., and Ireland.
Ireland, Murray, assignor to McGraw Electric Company, Elgin, Ill. Bread-actuated control for toasters. 2,662,466, Dec. 15.
Irtenkaut, Josef, Goeppingen, and A. Grupp, Eislingen (Fils), Germany, assignors to Gebrueder Boehringer G. m. b. H. Orbital lathe for machining crankshafts. 2,662,438, Dec. 15.
Jacks, Williard G., Lynwood, Calif. Sanitary pad. 2,662,527, Dec. 15.
Jackson, Robert J., Hazardville, Conn., assignor, by mesne assignments, to Alexander Smith Incorporated. Pile fabric. 2,662,560, Dec. 15.
Jacobsson, Wilgot J., Plainfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Fluid pressure regulator. 2,662,348, Dec. 15.
Jacoby, George W., Jr., Wooster, Ohio. Microtome knife. 2,662,445, Dec. 15.
James, Emrys G., Pinner, and A. O. E. Lindell, Southgate, assignors to The General Electric Company Limited, London, England. Crystal contact device. 2,662,984, Dec. 15.
Jaskowski, Michael C.: *See*—
Miller, James F., and Jaskowski.
Jenkins, Roy H., Jr., Hopewell, Va., assignor to Hercules Powder Company, Wilmington, Del. Bleaching cellulose derivatives. 2,662,884, Dec. 15.
Jenne, Kenneth C., assignor to Malleable Iron Fittings Company, Branford, Conn. Cross arm supporting gain for attachment to transmission line poles. 2,662,714, Dec. 15.
Jensen, Warren L., assignor to Continental Oil Company, Ponca City, Okla. Production of thionophosphorus compounds. 2,662,917, Dec. 15.
Johnson, Arthur A., assignor to Casco Products Corporation, Bridgeport, Conn. Steam iron. 2,662,316, Dec. 15.
Johnson, Charles E., assignor of one-half to P. D. Smith, Degraff, Ohio. Base for knockdown stands. 2,662,713, Dec. 15.
Johnson, Earl B., Freehold, N. J. Automatic watering fountain. 2,662,503, Dec. 15.
Johnson, Elmer E., Sausalito, Calif. Holder for pot covers or the like. 2,662,717, Dec. 15.
Johnson, Lee B., Los Angeles, Calif. Electric pulse operated motor. 2,662,987, Dec. 15.
Johnson, Paul R., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Dyes of the dibenzanthrone series. 2,662,892, Dec. 15.

Johnson, Ralph E., Rahway, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Motor bracket. 2,662,497, Dec. 15.
Johnston Testers, Inc., assignee: *See*—
Bagnell, Edgar W.
Jónás, Johann: *See*—
Tonutti, Emil, Schoeller, and Jónás.
Jones, Edwin E., North Stonington, Conn. Well deepening apparatus. 2,662,603, Dec. 15.
Jones, Harry H., and R. C. White, Detroit, assignors to H. H. Jones and R. C. White, copartners, doing business as Manufacturers Processing Co., Ferndale, Mich. Degreasing apparatus. 2,662,851, Dec. 15.
Jones, Robert H.: *See*—
Dobrokowski, Daniel T., Roen, and Jones.
Jones, Walter L., Somerville, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Gripping slider type buckle with fastener member on slider. 2,662,258, Dec. 15.
Jonsson, Elnar J., assignor to Aktiebolaget Alka Aluminiumkapslar, Linkoping, Sweden. Bottle cap forming apparatus. 2,662,498, Dec. 15.
Jorn, Albert, Jr.: *See*—
Jorn, Albert T. and A.
Jorn, Albert T., and A. Jorn, Jr., Grayslake, assignors to Burgess-Manning Company, Libertyville, Ill. Radiant panel heating and air distributing structure. 2,662,745, Dec. 15.
Jorn, Albert T., Grayslake, assignor to Burgess-Manning Company, Libertyville, Ill. Heat exchange panel structure. 2,662,746, Dec. 15.
Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Materials handling apparatus. 2,662,635, Dec. 15.
Joy Manufacturing Company, assignee: *See*—
Joy, Joseph F.
Julian, Percy L., Maywood, and E. W. Meyer and I. Ryden, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio. Preparation of 17α-hydroxy steroids. 2,662,904, Dec. 15.
Kadz, Harald D., Glendale, Calif., assignor to Kay-Brunner Steel Products, Inc. Scoop adjustment for carrytype scrapers. 2,662,312, Dec. 15.
Kaebnick, Gustav A., R. D. Parr, and J. L. Otstot, assignors to Carlisle Corporation, Carlisle, Pa. Machine for wrapping tire beads. 2,662,467, Dec. 15.
Kaess, Franz, Trostberg, E. Doehlemann, Thalham, near Altenmarkt, and E. Vogel, assignors to Suedddeutsche Kalkstickstoff-Werke A. G., Trostberg, Germany. Melamine condensation products and preparing the same. 2,662,873, Dec. 15.
Kaess, Franz, Trostberg, and E. Doehlemann, Thalham-Altenmarkt, assignors to Suedddeutsche Kalkstickstoff Werke A. G., Trostberg, Germany. Preparation of synthetic resins from dicyanodiamide. 2,662,868, Dec. 15.
Kaiser-Frazer Corporation, assignee: *See*—
Oven, Gerald E., and Suter.
Kalbach, John C., assignor to Hydrocarbon Research, Inc., New York, N. Y. Gasification of carbonaceous materials containing volatile constituents. 2,662,816, Dec. 15.
Kamlet, Jonas, New York, N. Y. Microbiocidal treatment of water with bromine chloride. 2,662,855, Dec. 15.
Karwacki, Joseph M., Chicago, Ill. Power-driven can opener. 2,662,278, Dec. 15.
Kauffmann, Hans O., Eggertsville, and J. F. Whalen, Jr., Kenmore, assignors to Buffalo-Electro-Chemical Company, Inc., Tonawanda, N. Y. Refractory. 2,662,825, Dec. 15.
Kay-Brunner Steel Products, Inc., assignee: *See*—
Kadz, Harald D.
Kayser, Hans G.: *See*—
Dorschner, Oskar, Wenzel, and Kayser.
Keith, Dan P., Lubbock, Tex. Straw conveyer for grain combines. 2,662,529, Dec. 15.
Keith, Hubert L., Mishawaka, Ind. Dual voltage switching device. 2,663,000, Dec. 15.
Kelley, Hugh, assignor to The J. B. Ehrsam & Sons Mfg Co., Enterprise, Kans. Self-cleaning butterfly gate. 2,662,545, Dec. 15.
Kellogg, M. W., Company, The, assignee: *See*—
Riblett, Earl W., Burton, and Lefrancois.
Kennametal Inc., assignee: *See*—
McVeigh, John R.
Kessler, Charles P., Bronx, N. Y. Safety means for leaving doors ajar. 2,662,571, Dec. 15.
Kester, Ralph C., Wichita, Kans. Wheel suspension assembly for boats. 2,662,236, Dec. 15.
Kimel, Walter, Highland Park, assignor to Hoffmann-La Roche Inc., Roche Park, Nutley, N. J. Preparing 2,3-dimethyl-heptene-2-one-6. 2,662,920, Dec. 15.
King, Clayton, Camden, N. J. Combination crib, small bathtub, and toilet unit. 2,662,231, Dec. 15.
King-Seeley Corporation, assignee: *See*—
Neumann, Kurt K.
Kingsbury, Chadwick B., Elizabethton, Tenn., assignor to North American Rayon Corporation, New York, N. Y. Yarn tensioning means for twisters. 2,662,364, Dec. 15.
Kingsley, David G., Mountain Lakes, assignor to Stapling Machines Co., Rockaway, N. J. Apparatus for orienting mitered cleats. 2,662,633, Dec. 15.
Kingsley, David G., Mountain Lakes, assignor to Stapling Machines Co., Rockaway, N. J. Apparatus for dispensing slats. 2,662,647, Dec. 15.
Kirkpatrick, John A., assignor to Universal Manufacturing Corp., Zellenople, Pa. Bracing for scaffolds and the like. 2,662,798, Dec. 15.
Kirkpatrick, Willard H., Sugar Land, assignor to Visco Products Company, Houston, Tex. Compositions and process for emulsion. 2,662,859, Dec. 15.
Kittler, Walter E., Mandan, N. Dak. Pipe elevator. 2,662,791, Dec. 15.
Kleiman, Morton, and A. Goldman, Chicago, Ill., assignors to Arvey Corporation. Production of composition of matter. 2,662,922, Dec. 15.
Klenm, Herman G., Birmingham, and N. A. Nelson, Royal Oak, assignors to Harry Ferguson, Inc., Detroit, Mich. Implement with plurality of plow elements. 2,662,460, Dec. 15.
Klugh, Bethune G., and G. C. Perrine, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo. Briquetting roll. 2,662,246, Dec. 15.
Klugh, Bethune G., Birmingham, and G. C. Perrine, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo. Briquetting roll assembly. 2,662,247, Dec. 15.
Knox, Horace B., Belleville, N. J., assignor to Radio Corporation of America. Ejecting mechanism for glass forming apparatus. 2,662,344, Dec. 15.
Koehl, Herman J., Danielson, assignor to C. E. M. Company, Killingly, Conn. Covered button with insert. 2,662,259, Dec. 15.
Koehler, Fred, assignor to Hamilton Watch Company, Lancaster, Pa. Electric watch. 2,662,366, Dec. 15.
Kohl, Walter H., assignor to Collins Radio Company, Cedar Rapids, Iowa. Resnatron filament basket. 2,662,990, Dec. 15.
Kokatnur, Helen G., executrix: *See*—
Kokatnur, Vaman R.
Kokatnur, Vaman R., deceased, New York, N. Y., by H. G. Kokatnur, executrix. Separation of salts of organic acids. 2,662,880, Dec. 15.
Konigslow, Otto, Mfg. Co., The, assignee: *See*—
Green, Robert H.
Koppers Company, Inc., assignee: *See*—
Shaw, Joseph A.
Kraft, Wheaton W., Scarsdale, assignor to The Luminus Company, New York, N. Y. Condensing system for distillation column. 2,662,850, Dec. 15.
Kraus, Edwin C., and M. V. Douthitt, Ortonville, Minn. Can conveying machine. 2,662,631, Dec. 15.
Krause, Paul W., Syracuse, N. Y., assignor to General Electric Company. Liquid settling of fluorescent screens. 2,662,829, Dec. 15.
Kravagna, Cut, Los Angeles, Calif. Check valve. 2,662,724, Dec. 15.
Krijger, Pieter: *See*—
Engel, Willem F., and Krijger.
Tenngna
Krohm, Fred A., Gary, Ind., assignor to Productive Inventions, Inc. Air filter. 2,662,609, Dec. 15.
Kroll, Adolphe V., Grevenmacher-Pieter, Luxemburg, assignor, by mesne assignments, to Compagnie Geologique et Miniere des Ingenieurs et Industriels Belges "Geomines" Societe par Actions a Responsabilite Limitee, Manono, Belgian-Congo. Recovering lithium compounds from lithium minerals. 2,662,809, Dec. 15.
Krug, Eugene C.: *See*—
Fort, Frank, and Krug.
Kuhler, Otto A., Wheel Hill, Blauvelt, N. Y., and W. E. Burnett, Montclair, N. J., assignors to American Car and Foundry Company, New York, N. Y. Sleeping car bed. 2,662,584, Dec. 15.
Kulcher, George: *See*—
Armstrong, Gordon, and Kulcher.
Kurek, Edwin J., assignor to The Pyle-National Company, Chicago, Ill. Modular pressure-displacement type ventilating apparatus. 2,662,463, Dec. 15.
Kurschner, Lloyd F., Minneapolis, Minn. Folding workbench for power tools. 2,662,566, Dec. 15.
Kurth, Ervin F., Corvallis, Oreg., assignor to State of Oregon, acting by and through the Oregon State Board of Forestry. Extraction of valuable products from bark. 2,662,893, Dec. 15.
Kyle, William D., Jr., assignor to McGraw Electric Company, Milwaukee, Wis. Combination fuse cutout and switch. 2,662,947, Dec. 15.
Labus, Otto A.: *See*—
Trane, Reuben N., and Labus.
Lacey, Edward D., Fairmount, Ga., assignor to Russell-Lacey Manufacturing Company. Pile fabric. 2,662,227, Dec. 15.
La Forte, Michael J., Park Ridge, assignor to Vaughan Mfg. Co., Chicago, Ill. Can opener. 2,662,280, Dec. 15.
Lamport, Samuel H., Southbridge, Mass., assignor to Golding Bros. Company, Inc., New York, N. Y. Injector device. 2,662,666, Dec. 15.
Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Photographic transfer processes and compositions for the practice of said processes. 2,662,822, Dec. 15.
Landis, Franklin G., Kenmore, assignor, by mesne assignments, to Sylvania Electric Products Inc., New York, N. Y. Adjustable potentiometer. 2,663,003, Dec. 15.
Landmeier, Edwin W.: *See*—
Boller, William D., Berkley, Ernst, and Landmeier.
Lane-Wells Company, assignee: *See*—
Turechek, George F., and Lindsay.

Lange, William H.: *See*—
Schmitt, Harry A., and Lange.

Lapham, Sidney D., Martinez, Calif. Pallet. 2,662,710, Dec. 15.

Lapham, Sidney D., Martinez, Calif. Pallet. 2,662,711, Dec. 15.

La Roche, Philip F., London, England. Handsaw frame. 2,662,567, Dec. 15.

Larsen, Einer W., Elmhurst, and J. R. Marcus, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Tension control apparatus. 2,662,697, Dec. 15.

Laskowski, Stanley C.: *See*—
Clinton, Raymond O., and Laskowski.

Laspe, Charles G.: *See*—
Foster, Richard A., and Laspe.

Lathrop-Paulson Company, The, assignee: *See*—
Schwarzkopf, Vergil.

Laverdisse, Edmond J. G., assignor to Les Glaceries de la Sambre, Societe Anonyme, Auvelais, Belgium. Process and apparatus for polishing glass. 2,662,350, Dec. 15.

Lavietes, Raymond P., assignor to Shelton Plane and Tool Manufacturing Company, Shelton, Conn. Multiple blade screw driver. 2,662,568, Dec. 15.

Leadbetter, Ralph L., Libertyville, A. S. Chipley, Mundelein, and C. P. Certik, Deerfield, assignors to Burgess-Manning Company, Libertyville, Ill. Panel heating system and integral tube and clip for use therein. 2,662 744, Dec. 15.

Lee, Matthew E., South Bend, Ind. Fishing reel. 2,662,699, Dec. 15.

Leef, John H., Minneapolis, Minn. Multiple ironing machine. 2,662,315, Dec. 15.

Leffer, Frederick W., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion or cracking of light and heavy oil fractions in the presence of subdivided contact material. 2,662,844, Dec. 15.

Lefrancois, Philip A.: *See*—
Riblett, Earl W., Burton, and Lefrancois.

Leonard, Frederick, Jackson Heights, assignor to Warner-Hudnut, Inc., New York, N. Y. Substituted esters of cyclic alcohols. 2,662,887, Dec. 15.

Le Roi Company, assignee: *See*—
Gerst, Chris.

Les Glaceries de la Sambre, Societe Anonyme, assignee: *See*—
Laverdisse, Edmond J. G.

Lesigne, Henri L., Vanves, France, assignor to Compagnie Industrielle des Telephones. Register system for receiving several codes. 2,662,935, Dec. 15.

Le Vay, Alex P., Dayton, Ohio. Table for constructing building frames. 2,662,565, Dec. 15.

Levy, Maurice M.: *See*—
Farren, Leslie I., Head, and Levy.

Llen, Arthur P.: *See*—
McCaulay, David A., and Llen.

Llen, Arthur P., Hammond, Ind., and D. A. McCaulay, assignors to Standard Oil Company, Chicago, Ill. Pentamethylbenzene disproportionation. 2,662,926, Dec. 15.

Lilienfeld, Julius E., St. Thomas, V. I. Electrolytic capacitor and forming the electrodes thereof. 2,662,995, Dec. 15.

Lincoln, Clovis W., Saginaw, and E. A. Schroeder, Midland, assignors to General Motors Corporation, Detroit, Mich. Transmission control. 2,662,419, Dec. 15.

Lindell, Aubrey O. E.: *See*—
James, Emrys G., and Lindell.

Lindell, Carl G., Minneapolis, Minn. Saw attachment for electric hand drills. 2,662,562, Dec. 15.

Lindeman, Jesse G., and C. V. Edwards, Yakima, Wash., assignors to Deere & Company, Moline, Ill. Land leveler. 2,662,314, Dec. 15.

Lindsay, Alexander R., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Rear-end construction of self-supporting automobile bodies. 2,662,793, Dec. 15.

Lindsay, Alexander R., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Final connection between preassembled units of self-supporting automobile bodies. 2,662,794, Dec. 15.

Lindsay, Will H., Jr.: *See*—
Turechek, George F., and Lindsay.

Linotype and Machinery Limited, assignee: *See*—
Scott, Richard H., and Hayward.

Lippert, Erhard M., assignor to Victor Adding Machine Co., Chicago, Ill. Removable logotype structure for calculating machines. 2,662,473, Dec. 15.

Littell, F. J., Machine Company, assignee: *See*—
Littell, Frederick M.

Littell, Frederick M., assignor to F. J. Littell Machine Company, Chicago, Ill. Double cone reel. 2,662,698, Dec. 15.

Little, Arthur D., Inc., assignee: *See*—
McMahon, Howard O.

Little, Charles H., assignor to Universal Drafting Machine Corporation, Cleveland, Ohio. Drafting machine. 2,662,291, Dec. 15.

Livers, Carlos B., assignor to Bendix Aviation Corporation, North Hollywood, Calif. Automatic quick-disconnect coupling manual flow control. 2,662,784, Dec. 15.

Livingston Tool Co., assignee: *See*—
Harmes, Oren B.

Lock Joint Pipe Company, assignee: *See*—
Hirsh, Philip R.

Lockard, Ronald C., Freeport, Pa. Smoking pipe. 2,662,530, Dec. 15.

Loeck, Gunther F. E., North Troy, assignor to W. & L. E. Gurley, Troy, N. Y. Erecting eyepiece with variable magnification. 2,662,443, Dec. 15.

Loewengart, Justin, New York, N. Y. Plastic, rubber or like article with integral fastening means. 2,662,308, Dec. 15.

Logan, Joseph A., Hadley, and G. D. Robinson, Agawam, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Hydraulic time-delay device for high-pressure liquid-fuel-supply pumps. 2,662,477, Dec. 15.

Logan, Joseph A., Hadley, and G. D. Robinson, Agawam, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Hydraulic control device for high-pressure liquid-fuel-supply pumps of pressure-atomizing oil burners. 2,662,542, Dec. 15.

Logan, Roger L., Markham, assignor to The C. P. Hall Company of Illinois, Chicago, Ill. Oxidation of fatty acids. 2,662,908, Dec. 15.

Lombardi Knitting Machine Co., Inc., assignee: *See*—
Lombardi, Vincent.

Lombardi, Vincent, assignor to Lombardi Knitting Machine Co., Inc., Miami, Fla. Knitting mechanism and method. 2,662,383, Dec. 15.

Long, George R., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Making heat exchange structures. 2,662,273, Dec. 15.

Long, Richard H., assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission control mechanism. 2,662,621, Dec. 15.

Longyear, E. J., Company, assignee: *See*—
Davis, Frank F., and Richmond.

Lontz, John F., and M. S. Raasch, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Alpha-amino acids containing alpha, fluorinated-alkyl or cycloalkyl groups. 2,662,915, Dec. 15.

Lorenz, Anton, Buffalo, N. Y. Reclining article of furniture. 2,662,582, Dec. 15.

Lotz, Otto, Oberhausen, Germany, assignor to The Babcock & Wilcox Company, New York, N. Y. Tempered air swept pulverizer and classifier with common fan means to transport unclassified material and pulverized oversize particles to the classifier. 2,662,694, Dec. 15.

Loumiet et Lavigne, Jean, Itabo, Cuba. Process and apparatus for the regulation of steam boilers. 2,662,507, Dec. 15.

Lovejoy Fexible Coupling Co., assignee: *See*—
Schmitt, Charles J.

Lovell, Wheeler G., and N. E. Phillips, assignors to General Motors Corporation, Detroit, Mich. Apparatus for separating solid metallic particles from an electrolyte and compacting the same. 2,662,643, Dec. 15.

Lowrey, James P., Montgomery, Ala. Scaffold erecting ladder jack. 2,662,716, Dec. 15.

Lubin, Hyman A., trustee, assignee: *See*—
Solomon, Louis.

Luebbers, Herman E.: *See*—
Hanes, Roger A., and Luebbers.

Lukasiewicz, Sigmund J.: *See*—
Brooks, John W., and Lukasiewicz.

Luminous Processes, Inc., assignee: *See*—
Fordyce, Rufus G.

Lummus Company, The, assignee: *See*—
Kraft, Wheaton W.

Lundberg, John E.: *See*—
Ballard, Robert G., and Lundberg.

Lundberg, John E., Swampscott, and G. A. Wallace, Malden, Mass., assignors to General Electric Company. Electrical pick-off for gyroscopes. 2,662,411, Dec. 15.

Luthi, Alfred, Philadelphia, Pa. Disk or ring projector. 2,662,518, Dec. 15.

Lyon, George A., Detroit, Mich. Apparatus for making wheel covers. 2,662,499, Dec. 15.

Lyon, George A., Detroit, Mich. Ash tray. 2,662,532, Dec. 15.

Macomber, Incorporated, assignee: *See*—
Macomber, Robert C.

Macomber, Robert C., assignor to Macomber, Incorporated, Canton, Ohio. Manufacture of fabricated joists. 2,662,272, Dec. 15.

Maddux, E. A., assignee: *See*—
Hammon, Lester.

Madsen, Paul S., Bethany, assignor to The Seamless Rubber Company, New Haven, Conn. Pitcher's rubber. 2,662,768, Dec. 15.

Madsen, Paul S., Bethany, assignor to The Seamless Rubber Company, New Haven, Conn. Pitcher's rubber. 2,662,769, Dec. 15.

Maico Company, Incorporated, The, assignee: *See*—
Barron, Fred E.

Malleable Iron Fittings Company, assignee: *See*—
Jenne, Kenneth C.

Malter, Louis, Princeton, N. J., assignor to Radio Corporation of America. Electron discharge device and system. 2,662,993, Dec. 15.

Manufacturers Processing Co., assignee: *See*—
Jones, Harry H., and White.

Marathon Corporation, assignee: *See*—
Rumberger, George G.

Marcus, Jerome R.: *See*—
Larsen, Einer W., and Marcus.

Markson, Alfred A., Mount Lebanon Township, Allegheny County, assignor to Hagan Corporation, Pittsburgh, Pa. Fluid-counterbalanced force measuring device. 2,662,539, Dec. 15.

Martin, Edward J., Pleasant Ridge, assignor to General Motors Corporation, Detroit, Mich. Magnetic pickup. 2,662,996, Dec. 15.

Martin, Homer Z., Cranford, N. J., assignor to Standard Oil Development Company. Hydrocarbon synthesis reaction. 2,662,912, Dec. 15.

Martiniak, Leonard J., Chicago, and J. W. Dusenberry, Melrose Park, Ill., assignors to General Electric Company. Drainage control system. 2,662,536, Dec. 15.

Marquis, Donald P.: *See*—
French, Oliver S., and Marquis.

Marschner, Charles F., Normandy, assignor to McDonnell Aircraft Corporation, St. Louis, Mo. Rapid connect and disconnect fastening means. 2,662,260, Dec. 15.

Mascherpa, Antonio, Novara, Italy. Speed change gearing. 2,662,417, Dec. 15.

Mayer, William, Belle Harbor, N. Y. Necktie having adjustable neckband and band element therefor. 2,662,226, Dec. 15.

McCain, Cecil C., Glen Ellyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for capping transmitters. 2,662,646, Dec. 15.

McCaulay, David A.: *See*—
Llen, Arthur P., and McCaulay.

McCaulay, David A., Chicago, Ill., and A. P. Llen, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill. Isomerization of xylenes. 2,662,925, Dec. 15.

McConaha, Elsie J.: *See*—
McConaha, Samuel, Jr., Bills, and McConaha.

McConaha, Samuel, Jr., J. N. Bills, and E. J. McConaha, Indianapolis, Ind. Receipting and depositing machine. 2,662,472, Dec. 15.

McDonnell Aircraft Corporation, assignee: *See*—
Marschner, Charles F.

McEwan, Archibald J., U. S. Navy. Gyrostabilized carrier aircraft approach light indicator. 2,663,008, Dec. 15

McGinley, James J., Williston Park, N. Y., assignor to American Machine and Foundry Company. Bowling ball and pin handling mechanism. 2,662,770, Dec. 15

McGogy, Donald H., Menlo Park, assignor to Dalmo Victor Company, San Carlos, Calif. Jalousie operator. 2,662,623, Dec. 15.

McGowan, Harold S., assignor to Collins Radio Company, Cedar Rapids, Iowa. Speed reducer. 2,662,422, Dec. 15.

McGowan, Kenneth J. J., Pittsburgh, and R. A. Woods, Verona, Pa., assignors to Westinghouse Air Brake Company. Self-restoring dragging equipment detectors. 2,662,973, Dec. 15.

McGraw Electric Company, assignee: *See*—
Gomersall, John R., and Ireland.
Ireland, Murray.
Kyle, William D., Jr.

McIlvaine, Alexander, New York, N. Y. Chair for aerial ski lifts. 2,662,587, Dec. 15.

McIlvaine, Robert L., assignor, by mesne asignments, to Herbert Simpson Corporation, Chicago, Ill. Liquid contact apparatus for cleaning gas. 2,662,756, Dec. 15.

McIntire, George W., Hagerstown, Md. Insecticide fogger. 2,662,332, Dec. 15.

McKim, James A., Fort Wayne, Ind., assignor to General Electric Company. Base for motors. 2,662,988, Dec. 15.

McKitrick, Edward R., assignor to Briggs Manufacturing Co., Detroit, Mich. Safety lock for switches. 2,662,389, Dec. 15.

McKnight, William E., Ferris, Tex. Support attachment for beds. 2,662,715, Dec. 15.

McLellan, George W., Bartlesville, Okla. Foot operated hydraulic pump. 2,662,475, Dec. 15.

McMahon, Howard O., Lexington, assignor to Arthur D. Little, Inc., Cambridge, Mass. Preservation and storage of biological materials. 2,662,520, Dec. 15

McMahon, Jerome B., Wilmette, assignor to Republic Flow Meters Company, Chicago, Ill. Apparatus for measuring the density of gases. 2,662,394, Dec. 15.

McManis, Louis B., and J. R. Cooper, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Attenuator for seismic gain control. 2,663,002, Dec. 15.

McMaster, Archie J., Deerfield, Ill., assignor to E. A. Simpson. Reading-training device. 2,662,306, Dec. 15.

McNally, Charles, Pawtucket, R. I. Denture. 2,662,288, Dec. 15.

McVeigh, John R., assignor to Kennametal Inc., Latrobe, Pa. Turbine wheel assembly. 2,662,725, Dec. 15.

Meesters, Andrew H., assignee: *See*—
Meyer, Louis C.

Melnig, Friedrich, Gottingen, Germany. Precision balance. 2,662,762, Dec. 15.

Mengali, Otavio J.: *See*—
Middleton, Arthur E., and Mengali.

Menzi, Karl: *See*—
Wegmann, Jacques, and Menzi.

Menzi, Karl, H. Riat, and J. Wegmann, assignors to Ciba Limited, Basel, Switzerland. Dyeing of cellulosic materials and dyestuff preparations suitable for this purpose. 2,662,806, Dec. 15.

Merck & Co., Inc., assignee: *See*—
Holly, Frederick W., Shunk, and Folkers.

Mersereau, Emory P., Jr., Thornwood, N. Y., and J. C. Wetherill, Norwood, Pa., assignors to Alexander Smith, Incorporated. Pile fabric. 2,662,558, Dec. 15.

Metallgesellschaft Aktiengesellschaft, assignee: *See*—
Dorschner, Oskar, Wenzel, and Kayser.

Metzger, Leopold H., assignor to Super-Cut, Inc., Chicago, Ill. Diamond dressing tool. 2,662,519, Dec. 15.

Meyer, Edwin W.: *See*—
Julian, Percy L., Meyer, and Ryden.

Meyer, Louis C., near Mount Morrison, assignor of forty per cent to A. H. Meesters, Denver, Colo. Valve for controlling fluid flow by variation in electric current. 2,662,550, Dec. 15.

Michnoff, David N., Brooklyn, N. Y., and C. M. Palmer, Washington, D. C. Key slot plug. 2,662,390, Dec. 15.

Middleton, Arthur E., and O. J. Mengali, Columbus, Ohio, assignors, by mesne assignments, to The Haloid Company, Rochester, N. Y. Producing an electrophotographic plate. 2,662,832, Dec. 15.

Middleton, William R., Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Catalyst and method for selective oxidation. 2,662,921, Dec. 15.

Midwest Tool and Cutlery Company, assignee: *See*—
Yeomans, Lucien I.

Miescher, Karl, Riehen, and J. Schmidlin, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Photochemical preparation of 17,20-hydroxyketones of the pregnane series. 2,662,854, Dec. 15.

Mikoski, John M., Spokane, Wash. Clamp. 2,662,261, Dec. 15.

Milan, Horace R., and O. L. Bluege, Washington, D. C. Fish stringer. 2,662,257, Dec. 15.

Miller, Alton B., assignor to Bendix Aviation Corporation, South Bend, Ind. Power boost control device. 2,662,377, Dec. 15.

Miller, James F., and M. C. Jaskowski, Pittsburgh, Pa., assignors to the United States of America as represented by the Secretary of the Army. Emusifying apparatus. 2,662,752, Dec. 15.

Miller, John M., Summerdale, Ala. Portable power unit. 2,662,412, Dec. 15.

Miller, Philip, assignor to Alexander Smith, Incorporated, Yonkers, N. Y. Pile fabric. 2,662,559, Dec. 15.

Millers Falls Company, assignee: *See*—
Burkhardt, Harold H.

Milwaukee Stamping Company, assignee: *See*—
Dobrogowski, Daniel T., Roen, and Jones.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Anderson, John W., and Chapman.
Gille, Willis H.
Hanson, Henry L.
Huntington, William L.
Rusler, George W., Jr., and Burggren.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Reid, Thomas S.

Minnesota and Ontario Paper Company, assignee: *See*—
Zesbaugh, Lawrence G.

Mitchell, Edmund G., Alton, Ill., and D. B. Timberman, New Haven, Conn., assignors to Olin Industries, Inc., East Alton, Ill. Manufacture of laminated structures. 2,662,270, Dec. 15.

Mock, Frank C., assignor to Bendix Aviation Corporation, South Bend, Ind. Density responsive device. 2,662,757, Dec. 15.

Modern Limb Supply Co., Inc., The, assignee: *See*—
Bennington, Charles H.

Moffett, Frank W., Jr., Chili, N. Y. Apparatus for converting frozen beverages from a hard state into a liquid state. 2,662,489, Dec. 15.

Monsanto Chemical Company, assignee: *See*—
Fike, Elmer A., and Bruner.
Klugh, Bethune G., and Perrine.

Montgomery, Charles W., and W. A. Horne, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Hydrogen treatment of heavy hydrocarbons. 2,662,846, Dec. 15.

Montgomery, H. A., Company, The, assignee: *See*—
Montgomery, Harley A., and Wojtowicz.

Montgomery, Harley A., Highland Park, and W. J. Wojtowicz, Detroit, Mich.; said Wojtowicz assignor to The H. A. Montgomery Company, Detroit, Mich. Preparing metal surfaces for drawing operations. 2,662,836, Dec. 15.

Moon, James, Altadena, assignor to Western Oil Tool & Engineering Co. Inc., Hollydale, Calif. Platform for portable drilling masts. 2,662,797, Dec. 15.

Moorhead, John P., Dearborn Township, Wayne County, assignor to Wall Wire Products Company, Plymouth, Mich. Stacking stock basket. 2,662,662, Dec. 15.

Moragne, Edward L., assignor of one-third to M. J. Guilberteau, and one-third to H. L. Reynolds, Houston, Tex. Rotating bed adsorber. 2,662,607, Dec. 15.

Morelock, Oliver J., Short Hills, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Hermetically sealed electrical unit. 2,662,930, Dec. 15.

Morrison, Bernard H.: *See*—
Clark, Charles W., and Morrison.

Morrison, David, assignor to Paragon Electric Company, Two Rivers, Wis. Time switch. 2,662,943, Dec. 15.

Morrison, Harold E., H. E. Geldhof, and L. Ringer, St. Joseph, Mich., assignors to Whirlpool Corporation. Washing machine control mechanism. 2,662,384, Dec. 15.

Mortensen, Robert N.: *See*—
Serley, Olaf R., and Mortensen.

Morton, Dudley J., assignor to Professional Research Products, Inc., New York, N. Y. Adjustable orthopedic insole. 2,662,309, Dec. 15.

Moshier, Edson G., and E. G. Hoysak, assignors to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Page end indicator for typewriters. 2,662,629, Dec. 15.

Motorola, Inc., assignee: *See*—
Winkler, Marion R.

Mougey, Wilbur E., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spirally applied, conductively-contacting cable armor. 2,662,931, Dec. 15.

Mougin, Robert A. P., Paris, France. Self-adjusting wheel brake. 2,662,617, Dec. 15.

Moulded Products, Inc., assignee: *See*—
Wenkstern, Russell L.

Mowe, Lester M., M. V., and M. L., Astoria, Oreg. Dirt leveler attachment for dump trucks. 2,662,313, Dec. 15.

Mowe, Melvin L.: *See*—
Mowe, Lester M., M. V., and M. L.

Mowe, Mildred V.: *See*—
Mowe, Lester M., M. V., and M. L.

Mueller Co., assignee: *See*—
Mueller, Frank H.

Mueller, Frank H., assignor to Mueller Co., Decatur, Ill. Line stopper shell cutter. 2,662,428, Dec. 15.

Muench, Carl G., Glenview, assignor to The Celotex Corporation, Chicago, Ill. Fiber preparation device. 2,662,821, Dec. 15.

Muller, Caroline A., Minneapolis, Minn. Chest binder. 2,662,522, Dec. 15.

Multi-Shingle Corporation, assignee: *See*—
Patterson, Robert.

Murray, John F.: *See*—
Smith, Frederick E., and Murray.

Murray Ohio Manufacturing Company, The, assignee: *See*—
Douglas, Alvin P., and Walters.

Myers, Carmel, New York, N. Y. Hair drier. 2,662,303, Dec. 15.

Nadaÿ, Georges, Paris, France, assignor to Compagnie Generale de Telegraphie Sans Fil. Reversible electronic counter. 2,662,692, Dec. 15.

Nadler, Martin J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Diarylguanidine vulcanization accelerators. 2,662,927, Dec. 15.

Nash, Paul F., Glencoe, Ill., assignor, by mesne assignments, to E Z Paintr Corporation, Milwaukee, Wis. Applicator roller for liquids. 2,662,269, Dec. 15.

Neil, William P., Pasadena, Calif. Constructing buildings. 2,662,391, Dec. 15.

Neilsen, Charles W., Sacramento, Calif. Tractor mounted bulk rake. 2,662,359, Dec. 15.

Nelson, Barney, Beloit, Wis. Crankshaft construction. 2,662,267, Dec. 15.

Nelson, Clarence L., Minneapolis, Minn. Valve for hose lines. 2,662,546, Dec. 15.

Nelson, Noral A.: *See*—
Klemm, Herman G., and Nelson.

Neostyle, Incorporated, assignee: *See*—
Stone, Kenneth.

Nerwin, Hubert, Irondequoit, assignor to Graflex, Inc., Rochester, N. Y. Film cartridge for photographic cameras. 2,662,696, Dec. 15.

Neu, Karl-Hans, Stuttgart, Germany. Double belt drawing mechanism for textile machines. 2,662,249, Dec. 15.

Neumann, Kurt K., assignor to King-Seeley Corporation, Ann Arbor, Mich. Timer construction. 2,662,595, Dec. 15.

Newmaster, Walter H., Ottumwa, assignor to Deere Manufacturing Co., Dubuque, Iowa. Wheel and shaft mounting for vehicles. 2,662,786, Dec. 15.

Newmont Mining Corporation, assignee: *See*—
Seigel, Harold O.

Newschwander, Wilfrid W., Ellensburg, Wash., assignor to Shell Development Company, San Francisco, Calif. Corrosion inhibition with nitrobenzaldehydes. 2,662,808, Dec. 15.

New York Air Brake Company, The, assignee: *See*—
Stacey, Hugh J.

Nicholson, Samuel S.: *See*—
Gill, Willie, and Nicholson.

Nielsen, Peter: *See*—
Simonsen, Vilhelm, and Nielsen.

Nivoix, Jean, La Plaine Saint-Denis, assignor to Societe Anonyme dite: Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France. Circuit interrupting fuse. 2,662,952, Dec. 15.

Noon, T Cyril, Bainbridge Township, Geauga County, assignor to Thompson Products, Inc., Cleveland, Ohio. Flow controlling apparatus. 2,662,541, Dec. 15.

Noranda Mines Limited, assignee: *See*—
Clark, Charles W., and Morrison.

Norden, Alexander R.: *See*—
Christensen, Paul M., and Norden.

North American Aviation, Inc., assignee: *See*—
Ince, Daniel B., Jr., and Shafer.

North American Rayon Corporation, assignee: *See*—
Kingsbury, Chadwick B.

Northrop Aircraft, Inc., assignee: *See*—
Bareford, Robert E.

Novak, Izador J., Trumbull, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Removal of magnetite from asbestos. 2,662,639, Dec. 15.

Nowak, Karl, Vienna, Austria. High selectivity amplifier. 2,662,939, Dec. 15.

Obermaier, Alfred A., Park Ridge, assignor to Illinois Testing Laboratories, Inc., Chicago, Ill. Electric pointer clamp for indicating instruments. 2,663,005, Dec. 15.

O'Blenis, John J.: *See*—
Weisenbach, Charles O., and O'Blenis.

Offner, Franklin F., Chicago, Ill. Electronic engine speed control system. 2,662,372, Dec. 15.

Ogburn, Alvin R., Crescent City, Calif. Fish lure. 2,662,330, Dec. 15.

Ohio Thermometer Company, The, assignee: *See*—
Hunt, George D.

Olin Industries, Inc., assignee: *See*—
Mitchell, Edmund G., and Timberman.
Schuricht, Alfons G.

Omega Machine Company, assignee: *See*—
Harper, Lyndus E.

Otsego Log Cabin Company, The, assignee: *See*—
Styles, Earl E.

Otstot, James L.: *See*—
Kaebnick, Gustav A., Parr, and Otstot.

Oven, Gerald E., Detroit, and W. Suter, Melvindale, assignors to Kaiser-Frazer Corporation, Willow Run, Mich. Composition for preparing soldered metal surfaces for painting. 2,662,838, Dec. 15.

Oyler, Max, Salmon, Idaho. Fishing tackle retriever. 2,662,328, Dec. 15.

Ozenne, Gilbert J., Manhattan Beach, assignor to Doak Aircraft Company, Inc., Torrance, Calif. Seat with adjustable back rest. 2,662,585, Dec. 15.

Pachmayr, Frank A.: *See*—
Powell, Edward B., and Pachmayr.

Packie, John W., Maplewood, N. J., assignor to Standard Oil Development Company. Regenerator apparatus for fluidizable solid materials. 2,662,813, Dec. 15.

Paist, Walter D., Berkley Heights, and N. Van Gorder, Scotch Plains, N. J., assignors to Celanese Corporation of America, New York, N. Y. Flameproofing process. 2,662,834, Dec. 15.

Palmer, Charles M.: *See*—
Michnoff, David N., and Palmer.

Pankove, Jacques I.: *See*—
Pantchechnikoff, Jacques I.

Pantchechnikoff, Jacques I., Princeton, N. J., now by change of name J. I. Pankove, assignor to Radio Corporation of America. Semiconductor amplifier and rectifier. 2,662,976, Dec. 15.

Papa, Domenick: *See*—
Sperber, Nathan, Papa, and Schwenk.

Paragon Electric Company, assignee: *See*—
Morrison, David.

Parke, Davis & Company, assignee: *See*—
Edgerton, William H.

Parr, Russel D.: *See*—
Kaebnick, Gustav A., Parr, and Otstot.

Parry, Frank, Trumbull, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-bar drive for zig-zag sewing machines. 2,662,495, Dec. 15.

Parsons, Richard H., Bloomfield Hills, Mich. Construction of interchangeable dies, punches, etc. 2,662,773, Dec. 15.

Patterson, Robert, assignor to Multi-Shingle Corporation, Memphis, Tenn. Reversible shingle. 2,662,490, Dec 15.

Patton, John W., Philadelphia, Pa., assignor to American Car and Foundry Company, New York, N. Y. Vibration isolator device. 2,662,720, Dec. 15.

Paul, Wanda L., assignor of one-half to C. J. Anderson, New York, N. Y. Multifaced doll. 2,662,339, Dec. 15.

Paulsmeier, Fritz, Hamburg-Bergedorf, and H. Warschau, Hamburg-Fuhlsbuttel, Germany. Ball piston pump. 2,662,482, Dec. 15.

Payzant, Henry H., Seattle, Wash., assignor to Timber Structures, Inc. Continuous gluing press. 2,662,564, Dec. 15.

Pedersen, Charles J., Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Reversible solvent-soluble derivatives of phthalocyanine pigments. 2,662,895, Dec. 15.

Pedersen, Charles J., Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Reversible solvent-soluble derivative of phthalocyanine pigments. 2,662,896, Dec. 15.

Pedersen, Charles J., Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Reversible solvent-soluble derivatives of phthalocyanine compounds. 2,662,897, Dec. 15.

Pedersen, Mathias, Valley Stream, N. Y., assignor to American Machine & Foundry Company. Thread handling mechanism. 2,662,496, Dec. 15.

Pegard, Marcel, Paris, France. Common control for the locking of two machine tool members. 2,662,265, Dec. 15.

Peitl, Josef, Vienna, Austria. Hand-vise. 2,662,432, Dec. 15.

Penn Aircraft Products, Inc., assignee: *See*—
Wolcott, Glenn W.

Pennekamp, Batholomeus M.: *See*—
Unk, Jacob M., Scheffer, and Pennekamp.

Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
Carroll, James W.

Perkins, Robert W., Niles, Ohio. Paintbrush attachment. 2,662,240, Dec. 15.

Perrine, George C.: *See*—
Klugh, Bethune G., and Perrine.

Perry, Harold O., Orinda, Calif. Golf tee holder. 2,662,677, Dec. 15.

Pestarini, Joseph M., Staten Island, N. Y. Electric motor of the metadyne type. 2,662,999, Dec. 15.

Peters, Nick, Frazer, Mont. Valve spring compressor. 2,662,275, Dec. 15.

Petersen, Niels P., Provo, Utah. Collapsible decoy. 2,662,327, Dec. 15.

Peterson, Arthur, Havertown, Pa. Edging and tracking means for walkways and the like. 2,662,342, Dec. 15

Peterson, Harry W., Jr.: *See*—
Henn, Albert C., and Peterson.

Petroleum Engineering Associates, Inc., assignee: *See*—
Brazier, Marion D.

Philco Corporation, assignee: *See*—
Sunstein, David E.

Phillips, Nelson E.: *See*—
Lovell, Wheeler C., and Phillips.

Phillips Petroleum Company, assignee: *See*—
Crouch, Willie W.
Pryor, Robert C.

Pickard, Willard C., Cedar Rapids, Iowa. Space measuring means. 2,662,292, Dec. 15.

Piton, Victor E., Chesterton, Ind. Foldable shelf. 2,662,645, Dec. 15.

Polaroid Corporation, assignee: *See*—
Fairbank, Murry N.
Land, Edwin H.

Porter, George G., Miami, Fla. Cell case partition assembling machine. 2,662,453, Dec. 15.

Postel, Kenneth I., and J. P. Horvath, assignors to Vickers Incorporated, Detroit, Mich. Rotary pump and motor hydraulic transmission. 2,662,375, Dec. 15.

Potash Company of America, assignee: *See*—
Douglass, Emory W., and Dunn.

Potchen, Joseph A., Grand Rapids, Mich., assignor, by mesne assignments, to Hasko Trays, Inc., Indianapolis, Ind. Serving tray and making same. 2,662,382, Dec. 15.

Powder, Paul F.: *See*—
Graham, Harold J., and Powder.

Powell, Edward B., Pasadena, and F. A. Pachmayr, Los Angeles, Calif. Method and apparatus for attaching muzzle devices to guns. 2,662,266, Dec. 15.

Powell, Edward B., Pasadena, Calif. Shotgun muzzle device. 2,662,326, Dec. 15.

Power Jets (Research and Development) Limited, assignee: *See*—
Dimmock, Norman A.

Praeg, Walter S., Detroit, Mich., assignor, by mesne assignments, to The Fellows Gear Shaper Company, Springfield, Vt. Gear shaping machine. 2,662,449, Dec. 15.

Pratt, Melvin W.: *See*—
Alboreo, Andrew J., and Pratt.

Price, Earl R., and T. H. Thomas, assignor to Bendix Aviation Corporation, South Bend, Ind. Booster unit for hydraulic pressure systems. 2,662,376, Dec. 15.

Priebe, Anna D., Kansas City, Mo. Sanitary comfort for colostomy pouches. 2,662,525, Dec. 15.

Proctor Electric Company, assignee: *See*—
Hortman, Harvey E., Jr

Productive Inventions, Inc., assignee: *See*—
Krohm, Fred A.

Professional Research Products, Inc., assignee: *See*—
Morton, Dudley J.

Pryor, Robert C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Telescoping bored-plug subcirculation valve. 2,662,548, Dec. 15.

Pukacz, Chaim B., Paris, France. Machine for the continuous manufacture of a stuffing material. 2,662,576, Dec. 15.

Pure Oil Company, The, assignee: *See*—
Ellison, Lynn E.
Heal, Paul E.

Putnam, William D., Brantford, Ontario, Canada. Packing device. 2,662,659, Dec. 15.

Pyle-National Company, The, assignee: *See*—
Kurek, Edwin J.

Pyrene Company, Limited, The, assignee: *See*—
Cockram, Reginald W. J.

Quelly, Joseph R.: *See*—
Emerson, William G., Jr., and Quelly.

Raasch, Maynard S.: *See*—
Lontz, John F., and Raasch.

Radio Corporation of America, assignee: *See*—
Cichoski, Edward C., and Dale.
Goldstine, Hallan E.
Hurley, Robert E.

Radio Corporation of America, assignee: *See*—Continued.
Knox, Horace B.
Malter, Louis.
Pantchechnikoff, Jacques I.
Ruggiero, John V.

Ramstad, Paul E.: *See*—
Christianson, George, and Ramstad.

Randall, David L., Easton, Pa., and E. E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Chloromethylated arylaminoanthraquinones. 2,662,902, Dec. 15.

Ransburg Electro-Coating Corp., assignee: *See*—
Helmuth, Richard E.

Raybestos-Manhattan, Inc., assignee: *See*—
Novak, Izador J.

Raylite Electric Corp., assignee: *See*—
Bronson, Frederic L.

Rayonier Incorporated, assignee: *See*—
Bock, Louis H.

Raytheon Manufacturing Company, assignee: *See*—
Segerstrom, Carl A.

Rector, L. L., assignee: *See*—
Schnitter, Sylvester B.

Reda Pump Company, assignee: *See*—
Arutunoff, Armais.

Reeder, William H., III, Olean, N. Y., assignor, by mesne assignments, to Dresser Operations, Inc., Whittier, Calif. Oxidation of aromatic hydrocarbons to phenols 2,662,923, Dec. 15.

Reguitti, Aristide, Agnosine, Italy. Combined type garment hanger. 2,662,674, Dec. 15.

Reich, Otto, assignor of one-third to J. Vignati, Vienna, Austria, and one-third to E. Wieden, Solingen-Ohligs, Germany. Storage device for liquefied gases and the vapors thereof. 2,662,379, Dec. 15

Reich, Otto, assignor of one-half to J. Vignati, Vienna, Austria. Gas burner and flow restrictor. 2,662,590, Dec. 15.

Reicherter, Georg E., Esslingen (Neckar), Germany. Gauge for testing out-of-roundness and diameters of cylindrical holes. 2,662,297, Dec. 15.

Reid, Thomas S., New Canada Township, Ramsey County, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Chromium coordination complexes of saturated perfluoro-monocarboxylic acids and articles coated therewith. 2,662,835, Dec. 15.

Reliable Plastics Co., Limited, assignee: *See*—
Samuels, Benjamin L., and Doster.

Renfrew, Edgar E.: *See*—
Randall, David L., and Renfrew.

Rennie, Basil C., Cambridge, and J. H. Weaving, Moseley, Birmingham, assignors to The Austin Motor Company Limited, Birmingham, England. Internal-combustion turbine with plural generators selectively operable 2,662,371, Dec. 15.

Republic Flow Meters Company, assignee: *See*—
McMahon, Jerome B.

Reynolds, Herbert L., assignee: *See*—
Moragne, Edward L.

Reynolds Metals Company, assignee: *See*—
Weber, Otto R.

Reynolds, Theron W., Wellsville, N. Y. Balanced wrench. 2,662,437, Dec. 15.

Rheostatic Company Limited, The, assignee: *See*—
Flight, Theodore N., and Wilson.

Rhinehart, John R., Ridgewood, and C. H. Eshrich, Hasbrouck Heights, assignors to Belco Industrial Equipment Division, Inc., Paterson, N. J. Multiport valve. 2,662,549, Dec. 15.

Rhodes, Clement T., Ascot, England. Precision grinding machine. 2,662,352, Dec. 15.

Rhodes, M. H., Incorporated, assignee: *See*—
Van Valkenburgh, Merritt.

Riat, Henri: *See*—
Menzi, Karl, Riat, and Wegmann.

Riblett, Earl W., Tenafly, W. P. Burton, Little Silver, and P. A. Lefrancois, assignors to The M. W. Kellogg Company, Jersey City, N. J. Platinum and palladium catalysts. 2,662,861, Dec. 15.

Rice, Robert S., Los Angeles, Calif. Pavement providing for plant growth. 2,662,343, Dec. 15.

Richmond, Stewart G.: *See*—
Davis, Frank F., and Richmond.

Rickles, Nathaniel H.: *See*—
Russell, Barrett B., 3rd, and Rickles.

Riggs, George L., Jr., assignor to Standard Electric Time Co., Springfield, Mass. Individually corrected secondary clock. 2,662,367, Dec. 15.

Riggs, Melvin L., Logan, W. Va. Retractable fog-beam light for vehicles. 2,662,605, Dec. 15.

Riley, Joseph J., and R. Alm, assignors to The Taylor-Winfield Corporation, Warren, Ohio. Electronic sequence control for intermittent operation of rotary electrode welding apparatus. 2,662,959, Dec. 15.

Rinehart, Elwood R., Seattle, Wash. Metal plated smoking pipe. 2,662,531, Dec. 15.

Ringer, Luther: *See*—
Morrison, Harold E., Geldhof, and Ringer.

Ristow, John R., assignor to St. John & Co., Chicago, Ill. Leg assembly for wheeled trucks. 2,662,778, Dec. 15.

Roberts, Tom R., Homestead, Fla. Saw filing device. 2,662,425, Dec. 15.

Robeson, Charles D., assignor to Eastman Kodak Company, Rochester, N. Y. Alpha, alpha-vitamin A diacid and synthesis of isoprenic polyenes. 2,662,914, Dec. 15.

Robey, William G., Grafton, W. Va. Toothbrush guard. 2,662,238, Dec. 15.

Robins, Leonard J., assignor to Add-A-Handle Corporation, Chicago, Ill. Carton structure. 2,662,684, Dec. 15.

Robinson, George D.: *See*—
Logan, Joseph A., and Robinson.

Rocklen, William W., West Haven, Conn. Fuel-system testing device. 2,662,398, Dec. 15.

Rodeback, Charles H., San Pedro, Calif. Automatic brake and accelerator coordinating device. 2,662,622, Dec. 15.

Roen, Ralph M.: *See*—
Dobrogowski, Daniel T., Roen, and Jones.

Roscoe, Merrill W., assignor to Deere & Company, Moline, Ill. Cotton stripper. 2,662,360, Dec. 15.

Rose, Louis C., Petaluma, Calif. Telescopic mast. 2,662,712, Dec. 15.

Ross, Alexander H., Fort Mitchell, Ky., assignor, by mesne assignments, to Embart Manufacturing Company. Cartoning machine. 2,662,355, Dec. 15.

Ross, John, Ramsey, and A. I. Gebhart, Union, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Alkanol-ether-imides of long-chain aliphatic dicarboxylic compounds. 2,662,898, Dec. 15.

Rothwell, John C.: *See*—
Bianchi, Peter, and Rothwell.

Rotruck, Adelbert L.: *See*—
Storer, William C., and Rotruck.

Rowe, Edgar A., and R. M. Zschau, Martinsville, Ill. River weight for pipe lines. 2,662,552, Dec. 15.

Ruberoid Co., The, assignee: *See*—
Abraham, Herbert.

Ruddy, Arlo W., Morristown, N. J., T. J. Becker, deceased, Delmar (by M. L. Tainter, administrator, Albany), assignors to Winthrop-Stearns Inc., New York, N. Y. Substituted phenylpropylamines. 2,662,886, Dec. 15.

Rudel, Harry W., Roselle Park, N. J., assignor to Standard Oil Development Company. Oxidation inhibitors. 2,662,815, Dec. 15.

Ruggiero, John V., Jersey City, N. J., assignor to Radio Corporation of America. Apparatus and method for joining glass tubulations to glass bulbs. 2,662,345, Dec. 15.

Rumberger, George G., Neenah, assignor to Marathon Corporation, Rothschild, Wis. Rubber compositions with oxidized microcrystalline wax. 2,662,864, Dec. 15.

Rush, Derek A. U.: *See*—
Baker, Matthew W., and Rush.

Rusler, George W., Jr., and R. C. Burggren, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Variable limit switch assembly. 2,663,001, Dec. 15.

Russell, Barrett B., 3rd, Elizabeth, and N. H. Rickles, Roselle Park, N. J., assignors to Standard Oil Development Company. Jet turbine engine fuel, including methanol and isopropanol. 2,662,817, Dec. 15.

Russell-Lacey Manufacturing Company, assignee: *See*—
Lacey, Edward D.

Russell, Lewis S., Portland, Oreg. Unloading means. 2,662,650, Dec. 15.

Ruth, Charles W., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-handling apparatus. 2,662,792, Dec. 15.

Rutherford, Charles F., Philadelphia, S. C. Tease, Media, and H. L. Troxell, Jr., Narberth, assignors to High Vacuum Processes, Inc., Philadelphia, Pa. Simultaneous drumming and vacuum treating of skins. 2,662,805, Dec. 15.

Rutherford, Le Moyne M., Ypsilanti, Mich. Micrometer and attachment. 2,662,293, Dec. 15.

Rutherford, Victor S., East Cleveland, A. J. Hornfeck, Lyndhurst, and P. S. Dickey, East Cleveland, Ohio, assignors to Bailey Meter Company. Control system. 2,662,540, Dec. 15.

Ryden, Isabelle: *See*—
Julian, Percy L., Meyer, and Ryden.

Rzasa, Michael J., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. High-pressure windowed cell. 2,662,393, Dec. 15.

S & W Sewing Machine Attachment Co., assignee: *See*—
Seaman, Charles and E. L.

Safe Padlock and Hardware Company, The, assignee: *See*—
Hagstrom, Gotthard.

St. John & Co., assignee: *See*—
Ristow, John R.

Sakal, Emile H., Massapequa, assignor to Warner-Hudnut, Inc., New York, N. Y. Products having physostigmine-like action. 2,662,890, Dec. 15.

Samuels, Benjamin L., and O. Doster, assignors to Reliable Plastics Co., Limited, Toronto, Ontario, Canada. Doll eyes. 2,662,340, Dec. 15.

Sanford, Mable M., San Francisco, Calif. Diaper holder and the like. 2,662,526, Dec. 15.

Saraber, Peter, Goslar, Germany. Flashlight lamp. 2,662,968, Dec. 15.

Sargent, Betty M., Bridgehampton, N. Y. Electrically internally heated steering wheel. 2,662,961, Dec. 15.

Sawyer, Frederick D., Wayne, assignor to Dearborn Motors Corporation, Birmingham, Mich. Bush and hog harrow. 2,662,783, Dec. 15.

Schaefer, Carl A., Milwaukee, Wis., assignor to Square D Company, Detroit, Mich. Time delay relay. 2,662,594, Dec. 15.

Schaefer, Gustave C., Canton, Ohio. Fifth wheel for tractor trailers and the like. 2,662,799, Dec. 15.

Schafer, Robert E.: *See*—
Goldberg, David C., and Schafer.

Schaffer, David J., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Governor. 2,662,512, Dec. 15.

Scheffer, Nicholaas: *See*—
Unk, Jacob M., Scheffer, and Pennekamp.

Schering Corporation, assignee: *See*—
Sperber, Nathan, Papa, and Schwenk.

Schmidlin, Julius: *See*—
Miescher, Karl, and Schmidlin.

Schmidt, Edward G., La Grange, and F. J. Cantalupo, assignors to Crane Co., Chicago, Ill. Closure for pressure vessels. 2,662,663, Dec. 15.

Schmidt, John, assignor to Crown Can Company, Philadelphia, Pa. Dispensing container and slitted resilient valve therefor. 2,662,668, Dec. 15.

Schmidt, John, assignor to Crown Can Company, Philadelphia, Pa. Dispensing container and slitted resilient valve therefor. 2,662,669, Dec. 15.

Schmitt, Charles J., assignor to Lovejoy Flexible Coupling Co., Chicago, Ill. Tiltable support. 2,662,708, Dec. 15.

Schmitt, Harry A., Shorewood, and W. H. Lange, Milwaukee, Wis. Shore protection. 2,662,378, Dec. 15.

Schneider, Otto, Cincinnati, Ohio. Pencil sharpener. 2,662,504, Dec. 15.

Schnitter, Sylvester B., Dallas, assignor to L. L. Rector, Tarrant County, Tex. Means for guiding, floating, and cementing well casing in bored holes. 2,662,602, Dec. 15.

Schnuck, Carl F., North Haven, and W. C. Whittum, assignors to Farrell-Birmingham Company, Incorporated, Ansonia, Conn. Blending and/or warming extrusion device for plastics or the like. 2,662,243, Dec. 15.

Schoeller, Walter: *See*—
Tomutti, Emil, Schoeller, and Jónás.

Schroeder, Errol A.: *See*—
Lincoln, Clovis W., and Schroeder.

Schnepp, Paul, Tarbes, assignor to Compagnie Generale d'Electro-Ceramique, Paris, France. Self-glazing ceramic compositions. 2,662,826, Dec. 15.

Schuler, Wilhelm, Hamburg-Hellbrook, assignor to Haarmann & Reimer, Chemische Fabrik zu Holzminden G. m. b. H., Holzminden Weser, Germany. Antihistamine compounds. 2,662,885, Dec. 15.

Schuricht, Alfons G., Alton, assignor to Olin Industries, Inc., East Alton, Ill. Ammunition priming composition and producing same. 2,662,818, Dec. 15.

Schwab, Arthur W., P. M. Cooney, and C. D. Evans, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Stabilization of glyceride oils with carboxymethyl mercaptosuccinic acid. 2,662,905, Dec. 15.

Schwartz, Robert S., Bronxville, assignor to Faximile, Inc., New York, N. Y. Recording method and apparatus. 2,662,803, Dec. 15.

Schwarz, Bertram A., Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Combination radio receiver. 2,662,975, Dec. 15.

Schwarz, Joseph A., Chicago, Ill., assignor to Birtman Electric Company. Food mixer. 2,662,753, Dec. 15.

Schwarzkopf, Vergil, La Grange, assignor to The Lathrop-Paulson Company, Chicago, Ill. Milk fat blending apparatus. 2,662,751, Dec. 15.

Schwede, Otto G., Camarillo, Calif. Rotatron-electrical transducer. 2,662,980, Dec. 15.

Schweiss, Joseph, assignor to Carter Carburetor Corporation, St. Louis, Mo. Fluid pressure sensitive switch. 2,662,946, Dec. 15.

Schweizer, Hans, Luino, Italy, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland. Method and device for mixing textile fibers. 2,662,250, Dec. 15.

Schwenk, Erwin: *See*—
Sperber, Nathan, Papa, and Schwenk.

Scott, Richard H., Hale, and A. S. Hayward, Altrincham, assignors to Linotype and Machinery Limited, London, England. Typographical composing machine. 2,662,636, Dec. 15.

Scott, Walter J., Woonsocket, R. I. Stop motion device for sliver processing machines. 2,662,251, Dec. 15.

Scully, John T., New York, N. Y. Safety razor. 2,662,282, Dec. 15.

Seaman, Charles, Laurel, and E. L. Seaman, Garden City, assignors to S & W Sewing Machine Attachment Co., New York, N. Y. Shirring attachment for sewing machines. 2,662,494, Dec. 15.

Seaman, Edward L.: *See*—
Seaman, Charles and E. L.

Seamless Rubber Company, The, assignee: *See*—
Crowley, Cornelius J.
Madsen, Paul S.

Segerstrom, Carl A., Winchester, assignor to Raytheon Manufacturing Company, Newton, Mass. Wave form generating circuits. 2,662,981, Dec. 15.

Seigel, Harold O., Jerome, Ariz., assignor to Newmont Mining Corporation, New York, N. Y. Determining the size of a subsurface ore body. 2,663,004, Dec. 15.

Sellers, Orville E., Johnstown, Pa. Self-loading trailer. 2,662,655, Dec. 15.

Serley Co., assignee: *See*—
Serley, Olaf R., and Mortensen.

Serley, Olaf R., and R. N. Mortensen, assignors to Serley Co., Minneapolis, Minn. Removable double hung window sash structure. 2,662,255, Dec. 15.

Sexton, August H.: *See*—
Wollard, Joseph C., and Sexton.

Shabaker, Hubert A., Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Apparatus for elevating granular material. 2,662,796, Dec. 15.

Shafer, Donald V.: *See*—
Ince, Daniel B., Jr., and Shafer.

Sharp, Olen D., Evansville, Ind. Protector for milk shake mixers. 2,662,754, Dec. 15.

Shaw, Joseph A., assignor to Koppers Company, Inc., Pittsburgh, Pa. Regeneration of spent pickle liquor and recovery of ferrous sulfate monohydrate. 2,662,812, Dec. 15.

Sheaffer, Mirl R., West Frankfort, Ill. Hanger shell puller. 2,662,276, Dec. 15.

Shell Development Company, assignee: *See*—
Castner, Robert C., and Archibald
Engel, Willem F., and Krijger.
Foster, Richard A., and Laspe.
Newschwander, Wilfrid W.
Simpson, Warren C., and Wilson.

Shelton Plane and Tool Manufacturing Company, assignee: *See*—
Lavietes, Raymond P.

Shenigo, Michael G., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Bundling machine. 2,662,468, Dec. 15.

Sherry, Peter P., and J. T. Corrigan, Walla Walla, Wash. Combined water cooled rotary gas turbine and combustion chamber. 2,662,373, Dec. 15.

Sherwin-Williams Company, The, assignee: *See*—
Beauchamp, David N.

Shields, Richard N., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Cog drive. 2,662,415, Dec. 15.

Shilling, William C., Arlington, and G. W. Wright, Wellesley Hills, assignors to Dewey and Almy Chemical Company, Cambridge, Mass. Solder flux life extender. 2,662,840, Dec. 15.

Shore, Richard B., Waterloo, Iowa. Means for detachably securing implements to tractors. 2,662,459, Dec. 15.

Shreedharan, Kallady, Malacca, Malaya. Exposition water color process. 2,662,325, Dec. 15.

Shunk, Clifford H.: *See*—
Holly, Frederick W., Shunk, and Folkers.

Sidebotham, Melvin H., Winchester, Mass. Machine for making printed, corrugated box blanks. 2,662,452, Dec. 15.

Signode Steel Strapping Company, assignee: *See*—
Childress, William C.

Simms, Ernest H., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Apparatus adapted for heating shoes. 2,662,964, Dec. 15.

Simon, James C., Cleveland, Ohio. Bin dispenser. 2,662,667, Dec. 15.

Simonsen, Vilhelm, and P. Nielsen, Randers, Denmark. V belt pulley. 2,662,416, Dec. 15.

Simpson, Elizabeth A., assignee: *See*—
McMaster, Archie J.

Simpson, Elizabeth A., Chicago, Ill. Reading-rate device. 2,662,307, Dec. 15.

Simpson, Herbert, Corporation, assignee: *See*—
McIlvaine, Robert L.

Simpson, Stephen, Poundsgate, Newton Abbot, Devon, England. Dry gas meter. 2,662,403, Dec. 15.

Simpson, Warren C., Albany, and W. B. Wilson, Concord, assignors to Shell Development Company, Emeryville, Calif. Thermal treatment and separation process. 2,662,845, Dec. 15.

Singer, Fred J., Rockville Centre, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Multiplex carrier telegraph system. 2,662,933, Dec. 15.

Singer, Grover C., Brownsville, Tex. Valve. 2,662,554, Dec. 15.

Singer Manufacturing Company, The, assignee: *See*—
Johnson, Ralph E.
Parry, Frank.
Snyder, Ellsworth B.

Sivo, Walter, Georgetown, and H. S. Walendzik, Danbury, Conn., assignors, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Counter for coil winding machines. 2,662,693, Dec. 15.

Smal, Gilles, Herstal, Belgium. Machine for the shaping of metal pieces, more particularly of saw teeth. 2,662,424, Dec. 15.

Smal, Gilles, Herstal, Belgium. Manufacture of saw segments. 2,662,427, Dec. 15.

Smith, Alexander, Incorporated, assignee: *See*—
Jackson, Robert J.
Mersereau, Emory P., Jr., and Wetherill.
Miller, Philip.

Smith, Charles G., assignee: *See*—
Decker, Roy L.

Smith, Frederick E., Cleveland Heights, and J. F. Murray, Macedonia, assignors to Thompson Products, Inc., Cleveland, Ohio. Rotary vane pump. 2,662,483, Dec. 15.

Smith, L. C., & Corona Typewriters, Inc., assignee: *See*—
Moshier, Edson G., and Hoysak.

Smith, Paul D., assignee: *See*—
Johnson, Charles E.

Smith, Thomas P., Manistique, Mich. Cable pulling attachment for vehicle wheels. 2,662,731, Dec. 15.

Smith, William B., Jr.: *See*—
Gagarine, Dmitry M., Smith, and Spangler.

Snodgrass, Floyd B., Cartersburg, Ind. Guitar tuning device. 2,662,439, Dec. 15.

Snow, Dale W., assignor to Boeing Airplane Company, Seattle, Wash. Rotary electrical switch. 2,662,954, Dec. 15.

Snow, F. H., Canning Company Inc., The, assignee: *See*—
Snow, Harold F.

Snow, Harold F., assignor to The F. H. Snow Canning Company Inc., Pine Point, Maine. Soup canning. 2,662,823, Dec. 15.

Snyder, Ellsworth B., Somerville, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Bonding machine. 2,662,967, Dec. 15.

Sobisch, Johannes, assignor to Anker-Werke, A. G., Bielefeld, Germany. Cash register. 2,662,688, Dec. 15.

Societe Anonyme dite: Forges et Ateliers de Constructions Electriques de Jeumont, assignee: *See*—
Nivoix, Jean.

Societe d'Exploitation des Materiéls Hispano-Suiza, S. A., assignee: *See*—
Blanc, Jacques.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Brooks, John W., and Lukasiewicz
Middleton, William R.

Sollinger, Ferdinand: *See*—
Cervino, Michael, and Sollinger.

Solomon, Edna, settlor: *See*—
Solomon, Louis.

Solomon, Gary B.: *See*—
Solomon, Louis.

Solomon, Howard D.: *See*—
Solomon, Louis.

Solomon, Louis, Chicago, Ill., assignor to H. A. Lubin and S. V. Adelman, as trustees under a certain trust agreement dated Oct. 31, 1942, made by L. and E. Solomon as settlors for the benefit of H. D. and G. B. Solomon. Toy steering wheel and gearshift. 2,662,341, Dec. 15.

Sommer, Leo H., State College, Pa., assignor to Dow Corning Corporation, Midland, Mich. Aminosiloxanes. 2,662,909, Dec. 15.

Sommer, Leo H., State College, Pa., assignor to Dow Corning Corporation, Midland, Mich. Ketosiloxanes. 2,662,910, Dec. 15.

Sonnenberg, Rudolph, Belvidere, Ill. Bottle hooding and capping mechanism. 2,662,679, Dec. 15.

Southelmer, Carl G., Riverside, Conn. System responsive to liquid levels. 2,662,404, Dec. 15.

Soulé, Charles W., Reno, Nev., assignor to J. C. Soulé, Washington, D. C. Flight training apparatus. 2,662,304, Dec. 15.

Soulé, Jessie C., assignee: *See*—
Soulé, Charles W.

Souter, Eugene H., Evanston, Ill. Automatic squeeze riveter. 2,662,429, Dec. 15.

Spalding, A. G., & Bros., Inc., assignee: *See*—
Wheeler, Ralph F.

Spangler, Myrtle J.: *See*—
Gagarine, Dmitry M., Smith, and Spangler.

Spaulding, David C., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparation of polychlorinated derivatives of phenol. 2,662,918, Dec. 15.

Sperber, Nathan, Bronx, and D. Papa, Brooklyn, N. Y., and E. Schwenk, Montclair, assignors to Schering Corporation, Bloomfield, N. J. P-chlorophenyl (2-pyridyl) (β-dimethylaminoethoxy) methane. 2,662,891, Dec. 15.

Sperry Corporation, The, assignee: *See*—
Beach, Lennox F.
Charlton, John.

Sperry Gyroscope Company Limited, The, assignee: *See*—
Baker, Matthew W., and Rush.

Spross, Hubert M., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator for cold milk products and the like. 2,662,687, Dec. 15.

Square D Company, assignee: *See*—
Schaefer, Carl A.

Squyer, Albert R., and P. F. Dirksen, assignors to Weaver Manufacturing Company, Springfield, Ill. Wheeled support for headlight tester. 2,662,779, Dec. 15.

Stacey, Hugh J., Willoughby, Ohio, assignor, by mesne assignments, to The New York Air Brake Company, New York, N. Y. Pressure reducing valve. 2,662,543, Dec. 15.

Standard Electric Time Co., assignee: *See*—
Riggs, George L., Jr.

Standard Oil Company, assignee: *See*—
Lien, Arthur P., and McCaulay.
McCaulay, David A., and Lien.

Standard Oil Development Company, assignee: *See*—
Brandon, Richard C.
Emerson, William G., Jr., and Quelly.
Henn, Albert C., and Peterson.
Ilfrey, Allen H.
Martin, Homer Z.
Packie, John W.
Rudel, Harry W.
Russell, Barrett B., 3rd, and Rickles.

Stanley, Lamont C.: *See*—
Carney, Charles S., Fritze, and Stanley

Stanolind Oil and Gas Company, assignee: *See*—
Clark, Joseph B.
Elliot, Theodore Q., and Weaver.
McManis, Louis B., and Cooper.
Rzasa, Michael J.

Stapleton, Bruce, E., Dallas, Tex. Foldable ladder and hinge members therefor. 2,662,681, Dec. 15.

Stapling Machines Co., assignee: *See*—
Kingsley, David G.

State of Oregon, acting by and through the Oregon State Board of Forestry, assignee: *See*
Kurth, Ervin F.

Stauffer Chemical Company, assignee: *See*
Bashour, Joseph T.

Stedman, James A., Cranston, R. I., assignor to Central Tool Company. Depth gauge. 2,662,296, Dec. 15.

Steiner, Oscar, assignor to Graflex, Inc., Rochester, N. Y. Front support members and bellows mounting means for photographic cameras. 2,662,456, Dec. 15.

Sterling Drug Inc., assignee: *See*
Clinton, Raymond O., and Laskowski.

Stewart-Warner Corporation, assignee: *See*—
Farr, Willard H.

Stickler, Lucian E. V., Miami, Fla. Tobacco curing stick mounting means. 2,662,718, Dec. 15

Stoffel, Hans F., Scarsdale, N. Y. Tag. 2,662,321, Dec. 15.

Stoffel, Hans F., Scarsdale, N. Y. Seal. 2,662,789, Dec. 15.

Stolper Steel Products Corporation, assignee: *See*—
Chapman, Henry C.

Stone, Albert L., Palos Verdes Estates, Calif. Making fused joints. 2,662,277, Dec. 15.

Stone, Kenneth, Elmhurst, assignor to Neostyle, Incorporated, Chicago, Ill. Bag closing machine. 2,662,357, Dec. 15.

Storer, William C., and A. L. Rotruck, Narrows, Va., assignors to Celanese Corporation of America, New York, N. Y. Carton. 2,662,638, Dec. 15.

Strand, Martin E.: *See*—
Beaubaire, Marshall B., and Strand.

Styles, Earl E., assignor to The Otsego Log Cabin Company, Gaylord, Mich. Building wall corner joint. 2,662,252, Dec. 15.

Sueddeutsche Kalkstickstoff-Werke A. G., assignee: *See*—
Kaess, Franz, and Doehlemann.
Kaess, Franz, Doehlemann, and Vogel.

Sullivan, Donal E., Washington, D. C. Sine wave shock tester. 2,662,392, Dec. 15.

Sunstein, David E., Cynwyd, assignor to Philco Corporation, Philadelphia, Pa. Logarithmic transducer 2,662,978, Dec. 15.

Sunstein, David E., Cynwyd, assignor to Philco Corporation, Philadelphia, Pa. Object location system employing logarithmic transducer. 2,663,015, Dec. 15.

Super-Cut, Inc., assignee: *See*—
Metzger, Leopold H.

Superior Switchboard & Devices Company, The, assignee: *See*—
Alexander, Harry B.

Surre, François E., Paris, France. Diaphragm pump and compressor. 2,662,478, Dec. 15.

Suter, William: *See*—
Oven, Gerald E., and Suter.

Sutherland Paper Company, assignee: *See*—
Buttery, Kenneth T.

Sutton, Myer S., Minneapolis, Minn., assignor to Frez-O-Mat Corporation, Chicago, Ill. Automatic defrosting system for refrigeration machines. 2,662,380, Dec. 15.

Svatý, Vladimir, Roztoky, near Jilemnice, assignor of seventy-five per cent to Ceskoslovenske Textilni Zavody, narodni podnik, Prague, Czechoslovakia. Device for weaving of fabrics. 2,662,556, Dec. 15.

Swafford, Carl R., deceased, late of Philadelphia, Pa., by V. E. Swafford, administrator, Franklin, N. C., assignor to Container Corporation of America, Chicago, Ill. Carton loading machine. 2,662,356, Dec. 15.

Swafford, Verlon E., administrator: *See*
Swafford, Carl R.

Swalinkavich, Joseph E., Jr., Robbinsdale, Minn. Handle for hack saw blades. 2,662,569, Dec. 15

Swank, Inc., assignee: *See*
Cheney, Leslie W.
Gosselin, Joseph D.

Swanson, Alma, Inglewood, and A. F. Heffernan, Hawthorne, Calif. Bobby pin spreader and holder 2,662,533, Dec. 15.

Sward, Forrest W., Euclid, assignor to Thompson Products, Inc., Cleveland, Ohio. Automatic mechanical clearance regulator. 2,662,511, Dec. 15.

Swartz, Charles, King City, Calif. Finger rest for application of nail polish. 2,662,534, Dec. 15.

Swihart, John R., Chicago Heights, Ill., assignor to The Diversey Corporation. Method and composition for chemically polishing metals. 2,662,814, Dec. 15.

Swingfire (Bahamas) Limited, assignee: *See*—
Huber, Ludwig R.

Sylvania Electric Products Inc., assignee: *See*
Baker, Harold E.
De Boy, Marvin F.
Landis, Franklin G.

Synero Machine Company, assignee: *See*—
Bruestle, Carl O.

Tainter, Maurice L., administrator: *See*
Ruddy, Arlo W., and Becker.

Talbert, Austin G., assignor to Talbert Construction Equipment Company, Lyons, Ill. Stabilizer for spring-supported bodies. 2,662,780, Dec. 15.

Talbert, Mary W., Columbia, Mo. Treating apple sections. 2,662,824, Dec. 15.

Talbert Construction Equipment Company, assignee: *See*—
Talbert, Austin G.

Tanke, Willard H., La Crosse, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor mower attachment. 2,662,358, Dec. 15.

Tapscott, Leldon H., Dallas, Tex. Fluid level indicator. 2,662,405, Dec. 15.

Taylor, Donald S., Monrovia, and G. A. Connell, Los Angeles, Calif., assignors to Borax Consolidated, Limited, London, England. Stabilization of borax supersaturation in solutions. 2,662,810, Dec. 15.

Taylor-Winfield Corporation, The, assignee: *See*—
Riley, Joseph J., and Alm.

Teal, Gordon K., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Preparation of apertured metal screens. 2,662,274, Dec. 15.

Teal, Gordon K., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Preparation of two-sided mosaic screen. 2,662,852, Dec. 15.

Tease, Samuel C.: *See*—
Ruthertord, Charles F., Tease, and Troxell.

Telefonaktiebolaget L. M. Ericsson, assignee: *See*—
Akerlind, Hilmer G. A.

Thatcher, Charles A., Medford, Oreg. Combined portable table and cabinet. 2,662,989, Dec. 15.

Thatcher, Lewis E.: *See*—
Weaver, Ruth K., Wingblade, and Thatcher.

Thomas, Percy H., Washington, D. C. Intermittent impact water wheel. 2,662,726, Dec. 15.

Thomas, Thomas H.: *See*—
Price, Earl R., and Thomas.

Thompson Products, Inc., assignee: *See*—
Almas, Louis T.
Angell, Pierce T., and Vaughn.
Cliborn, Robert.
French, Oliver S., and Marquis.
Ingram, Paul.
Noon, T Cyril.
Smith, Frederick E., and Murray.
Sward, Forrest W.

Thompson, Thomas I., Chicago, Ill. Glove compartment light. 2,662,969, Dec. 15.

Thomsen, Alfred M., San Francisco, Calif. Making ammonium sulphate. 2,662,811, Dec. 15.

Tide Water Associated Oil Company, assignee: *See*—
Bishop, John W.

Timber Structures, Inc., assignee: *See*—
Payzant, Henry H.

Timberman, De Wilton B.: *See*—
Mitchell, Edmund G., and Timberman.

Timken Roller Bearing Company, The, assignee: *See*—
Fort, Frank, and Krug.

Tintes, Hubert A., West Fargo, N. Dak. Auxiliary conveyer extension. 2,662,634, Dec. 15.

Toggenburger, John, Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Line spacing device. 2,662,628, Dec. 15.

Tonutti, Emil, Giessen, and W. Schoeller, Konstanz, Germany, and J. Jönås, Oakdale, N. Y. 1-phenyl-2,3-dimethyl-4-amino-5-pyrazolone-N-phosphoric acid dialkylesters. 2,662,894, Dec. 15.

Trane Company, The, assignee: *See*—
Trane, Reuben N., and Labus.

Trane, Helen, legal guardian: *See*—
Trane, Reuben N., and Labus.

Trane, Reuben N.: *See*—
Trane, Reuben N., and Labus.

Trane, Reuben N., and O. A. Labus (H. Trane, legal guardian of R. N. Trane), assignors to The Trane Company, La Crosse, Wis. Baseboard radiator provided with damper. 2,662,747, Dec. 15.

Tronnier, Albrecht W., Gottingen, assignor to Voigtlander A. G., Brunschweig, Germany. Photographic teleobjective having a composite positive front part axially spaced from a composite negative rear part. 2,662,446, Dec. 15.

Tronnier, Albrecht. W., Gottingen, assignor to Voigtlander, A. G., Brunschweig, Germany. Modified Gauss-type high-speed photographic objective with anastigmatic flattened field. 2,662,447, Dec. 15.

Trout, George L., Painesville, Ohio, assignor to Westinghouse Air Brake Company. Apparatus for the control of electric switch locks in centralized traffic control systems for railroads. 2,662,972, Dec. 15.

Troxell, Harry L., Jr.: *See*—
Rutherford, Charles F., Tease, and Troxell.

Troyer, Ora E. Hampton, Va. Pressure-boosting apparatus for vehicle hydraulic brake systems. 2,662,618, Dec. 15.

Tubular Rivet and Stud Company, assignee: *See*—
Doyle, Thomas J.

Turechek, George F., Los Angeles, and W. H. Lindsay, Jr., Lawndale, assignors to Lane-Wells Company, Los Angeles, Calif. Well casing perforator. 2,662,474, Dec 15.

Turnbull, Norris: *See*—
Bristol, John E., Harrington, and Turnbull.
Bristol, John E., and Turnbull.

Turner, Ralph R., Warwick, R. I. Flow indicator for hose. 2,662,502, Dec. 15.

Ulberg, Frederick G. W., Jr., assignor to T. J. Cope, Inc., Philadelphia, Pa. Angle connector for electric cable supporting trough systems. 2,662,709, Dec. 15.

Underwood Corporation, assignee: *See*—
Toggenburger, John.

Union Carbide and Carbon Corporation, assignee: *See*—
Jacobsson, Wilgot J.

United-Carr Fastener Corporation, assignee: *See*—
Jones, Walter I.

United Engineering & Foundry Company, assignee: *See*—
Greenberger, Joseph I.

United Paper Company, assignee: *See*—
Vaughan, Thomas M.

United Shoe Machinery Corporation, assignee: *See*—
Carter, James P.
Eastman, Fred C.
Simms, Ernest H.

United States Potash Company, assignee: *See*—
Wilson, William P.

United Steel Companies Limited, The, assignee: *See*—
Chesters, John H.

Universal Drafting Machine Corporation, assignee: *See*—
Little, Charles H.

Universal Manufacturing Corp., assignee: *See*—
Kirkpatrick, John A.

Universal Oil Products Company, assignee: *See*—
Bloch, Herman S.
Leffer, Frederick W.

Unk, Jacob M., N. Scheffer, and B. M. Pennekamp, Hilversum, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Mechanically driven selector switch. 2,662,936, Dec. 15.

Unsinger, Philip H., Fremont, Ohio, assignor, by mesne assignments, to R. Hicks, Lexington, Ky. Knife construction having a sliding blade. 2,662,284, Dec. 15.

Upjohn Company, The, assignee: *See*—
Holysz, Roman P., Jr., and Campbell.

Upson, Walter L., Litchfield, Conn. Hoe. 2,662,461, Dec. 15.

Vacuum Can Company, assignee: *See*—
Becker, Glenn C.

Van Gorder, Norman: *See*—
Paist, Walter D., and Van Gorder.

Van Guilder, Walter, River Forest, Ill., assignor to General Mills, Inc. Food mixer casing. 2,662,421, Dec. 15.

Vann, James O., Arlington, Mass., assignor to the United States of America as represented by the Secretary of the Air Force. Time delayed ground probe switch. 2,662,707, Dec. 15.

Van Schie, Robert J., Grand Rapids, Mich. Sheet metal separating device. 2,662,648, Dec. 15.

Van Valkenburgh, Merritt, Upper Nyack, N. Y., assignor to M. H. Rhodes Incorporated, Hartford, Conn. Spring motor assemblage for clockwork mechanisms. 2,662,612, Dec. 15.

Vaughan Mfg. Co., assignee: *See*—
La Forte, Michael J.

Vaughan, Thomas M., assignor to United Paper Company, Tampa, Fla. Fruit wrapping machine 2,662,354, Dec. 15.

Vaughn, Charles D.: *See*—
Angell, Pierce T., and Vaughn.

Verney Corporation, assignee: *See*—
Campbell, James S.

Vickers Incorporated, assignee: *See*—
Postel, Kenneth L., and Horvath.

Victor Adding Machine Co., assignee: *See*—
Lippert, Erhard M.

Vignati, Julius, assignee: *See*—
Reich, Otto.

Vintenon, André L., Bois-Colombes, assignor to Electrom, Neuilly-sur-Seine, Seine, France. Starting unit, more particularly for internal-combustion engines, and operating same. 2,662,986, Dec. 15.

Visco Products Company, assignee: *See*—
Kirkpatrick, Willard H.

Vogel, Erwin: *See*—
Kaess, Franz, Doehlemann, and Vogel.

Voight, August L., Berea, Ohio. Dispensing attachment for bottles. 2,662,670, Dec. 15.

Voigtlander A. G., assignee: *See*—
Tronnier, Albrecht W.

Vojta, Robert J., Chicago, Ill. Binding for luggage seams and the like. 2,662,620, Dec. 15

Wadsworth Electric Mfg. Co., The, assignee: *See*—
Boller, William D., Berkley, Ernst, and Landmeier.

Walendzik, Henry S.: *See*—
Sivo, Walter, and Walendzik.

Walker, Brooks, Piedmont, Calif. Venetian blind parts 2,662,593, Dec. 15.

Walker, Kathleen D., assignee: *See*—
Walker, Lloyd W.

Walker, Lloyd W., Blue Island, assignor to L. W., W. H., K. D., and R. E. Walker, Harvey, Ill., copartners doing business as Walker Metal Products Company Garment hanger. 2,662,675, Dec. 15.

Walker Metal Products Company, assignee: *See*—
Walker, Lloyd W.

Walker, Rose E., assignee: *See*—
Walker, Lloyd W.

Walker, William H., assignee: *See*—
Walker, Lloyd W.

Wall Wire Products Company, assignee: *See*—
Moorhead, John P.

Wallace, George A.: *See*—
Lundberg, John E., and Wallace.

Walsh, John F., assignee: *See*—
Bianchi, Peter, and Rothwell.

Walters, Leonard J.: *See*—
Douglas, Alvin P., and Walters.

Warner, Arthur J., Glen Ridge, assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Synthetic cable jacketing compositions. 2,662,932, Dec. 15

Warner-Hudnut, Inc., assignee: *See*—
Leonard, Frederick.
Sakal, Emile H.

Warschau, Hans: *See*—
Paulsmeier, Fritz, and Warschau.

Watt, Alexander B.: *See*—
Ballard, Alfred G., Dent, Broscomb, and Watt.

Weaver, Joe C., Jr.: *See*—
Elliot, Theodore Q., and Weaver.

Weaver Manufacturing Company, assignee: *See*—
Squyer, Albert R., and Dirksen.

Weaver, Ruth K., Chicago, L. M. Wingblade, Mount Prospect, and L. E. Thatcher, Berwyn, assignors to Gaylord Products, Incorporated, Chicago, Ill. Bobby pin carding machine. 2,662,596, Dec. 15.

Weaving, John H.: *See*—
Rennie, Basil C., and Weaving.

Webb, Christopher F., assignor to Bell Punch Company Limited, London, England. Numeral wheel locking mechanism. 2,662,690, Dec. 15.

Webb, Christopher F., assignor to Bell Punch Company Limited, London, England. Numeral wheel actuating mechanism. 2,662,691, Dec. 15.

Weber, Otto R., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Reel apparatus for forming coils of cable. 2,662,701, Dec. 15.

Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Seal for coffee makers. 2,662,464, Dec. 15.

Wegmann, Jacques: *See*—
Menzi, Karl, Riat, and Wegmann.

Wegmann, Jacques, and K. Menzi, assignors to Ciba Limited, Basel, Switzerland. Dyeing cellulose fibers with direct-dyeing cupriferous azo-dyestuffs and dyebaths used therefor. 2,662,807, Dec. 15.

Weiner, Louis L., Philadelphia, and B. P. Berman, Upper Darby, Pa. Method and apparatus for determining the volume of articles. 2,662,400, Dec. 15.

Weisenbach, Charles O., and J. J. O'Blenis, assignors to Bendix Aviation Corporation, South Bend, Ind. Turbine pump or motor. 2,662,479, Dec. 15.

Wenkstern, Russell L., Mound, assignor to Moulded Products, Inc., Spring Park, Minn. Nursery chair. 2,662,229, Dec. 15.

Wenzel, Wilhelm: *See*—
Dorschner, Oskar, Wenzel, and Kayser.

Wessel, Melvin H., assignor to Cavalier Corporation, Chattanooga, Tenn. Electric air heater. 2,662,963, Dec 15.

Western Electric Company, Incorporated, assignee: *See*—
Larsen, Einer W., and Marcus.
McCain, Cecil C.
Ruth, Charles W.
Sivo, Walter, and Walendzik.

Western Oil Tool & Engineering Co. Inc., assignee: *See*—
Moon, James.

Westinghouse Air Brake Company, assignee: *See*—
Allison, Leslie R.
McGowan, Kenneth J. J., and Woods.
Trout, George L.

Westinghouse Electric Corporation, assignee: *See*—
Fields, Arnold C.

Weston Electrical Instrument Corporation, assignee: *See*—
Gilbert, Roswell W.
Morelock, Oliver J.
Wohlgemuth, Adolph J.

Wetherill, Jean C.: *See*—
Mersereau, Emory P., Jr., and Wetherill.

Whalen, James F., Jr.: *See*—
Kaufmann, Hans O., and Whalen.

Wheeler, Ralph F., Springfield, assignor to A. G. Spalding & Bros., Inc., Chicopee, Mass. Oil retainer for gloves or mitts. 2,662,225, Dec. 15.

Whirlpool Corporation, assignee: *See*—
Morrison, Harold E., Geldhof, and Ringer.

White, Robert C.: *See*—
Jones, Harry H., and White.

White, William E., Bethlehem, Pa., assignor to Bethlehem Steel Company. Fence post clip. 2,662,740, Dec. 15

Whiteman, Marvin E., Los Angeles, Calif. Float trowel for cement floor finishers. 2,662,454, Dec. 15

Whitman Publishing Company, assignee: *See*—
Calverley, George H.

Whittum, Warren C.: *See*—
Schnuck, Carl F., and Whittum.

Wieden, Erich, assignee: *See*—
Reich, Otto.
Wijchman, Jan, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Securing of a member to a support by means of a spring. 2,662,765, Dec. 15.
Wilburn, Frank: *See*—
Cunningham, Jack R., and Wilburn.
Wilchek, Andrew J., Cleveland, Ohio. Two wheel hand cart. 2,662,777, Dec. 15.
Wildhaber, Ernest, Brighton, N. Y. Universal joint. 2,662,381, Dec. 15.
Wilkerson Corporation, assignee: *See*—
Wilkerson, Dewey.
Wilkerson, Dewey, assignor to Wilkerson Corporation, Denver, Colo. Air compressor tank drain valve. 2,662,551, Dec. 15.
Williams, Jennings B., Tulsa, Okla. Machine for bonding and debonding brake shoe linings. 2,662,960, Dec. 15.
Williams, Russell J.: *See*—
Belcher, Daniel, Williams, and Helmos.
Wilson, Harry C., Sherman Oaks, assignor to R. H. Clark, Los Angeles, Calif. Device for removing the ends of cans 2,662,279 Dec. 15.
Wilson, Robert L., Chicago, Ill. Trailer wheel assembly. 2,662,782, Dec. 15.
Wilson, William B.: *See*—
Simpson, Warren C., and Wilson.
Wilson, William H.: *See*—
Flight, Theodore N., and Wilson.
Wilson, William P., Carlsbad, N. Mex., assignor to United States Potash Company, New York, N. Y. Screw dewatering classifiers. 2,662,642, Dec. 15.
Wingblade, Loren M.: *See*—
Weaver, Ruth K., Wingblade, and Thatcher.
Winkler, Marion R., La Grange Park, assignor to Motorola, Inc., Chicago, Ill. Indicating switch. 2,662,942, Dec. 15.
Winkler, William R., Pittsburgh, Pa. Door for darkrooms. 2,662,253, Dec. 15.
Winthrop-Stearns Inc., assignee: *See*—
Ruddy, Arlo W., and Becker.
Witters, Robert F., assignor to Collins Radio Company, Cedar Rapids, Iowa. Electric motor control for shaft positioning systems. 2,662,998, Dec. 15.
Wohlgemuth, Adolph J., Westfield, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Reference-junction compensator for thermocouple pyrometers. 2,662,406, Dec. 15.
Wojtowicz, Wesley J.: *See*—
Montgomery, Harley A., and Wojtowicz.
Wolcott, Glenn W., assignor to Penn Aircraft Products, Inc., Dayton, Ohio. Flaring tool. 2,662,575, Dec. 15.
Wollard, Joseph C., Miami, and A. H. Sexton, North Miami Beach, Fla. Expansible mold for casting concrete fence posts. 2,662,262, Dec. 15.
Wood Bros. Inc., assignee: *See*—
Beasley, Donald L.
Woods, Robert A.: *See*—
McGowan, Kenneth J. J., and Woods.
Worden, Floyd O., assignor to W. E. Worden, Alliance, Nebr. Large hayrake. 2,662,363, Dec. 16.
Worden, Willis E., assignee: *See*—
Worden, Floyd O.
Woydt, Eduard W., Stuttgart, Germany. Rotary pump and motor hydraulic transmission. 2,662,374, Dec. 15.
Wright, George W.: *See*—
Shilling, William C., and Wright.
Wuerfel, Donald F., assignor to E. E. Hans, Detroit, Mich. Fan wheel. 2,662,686, Dec. 15.
Wynn, Ted R., Helena, Ala. Wallpaper hanging apparatus. 2,662,657, Dec. 15.
Wynn, Ted R., Birmingham, Ala. Wallpaper hanging apparatus. 2,662,658, Dec. 15.
Yeomans, Lucien I., Chicago, Ill., assignor to Midwest Tool and Cutlery Company, Sturgis, Mich. Grass shears with vertical handle action. 2,662,285, Dec. 15.
Yeomans, Lucien I., Chicago, Ill., assignor to Midwest Tool and Cutlery Company, Sturgis, Mich. Grass shears with lateral handle action. 2,662,286, Dec. 15.
Yerkes, John A., New York, N. Y. Staple remover. 2,662,727, Dec. 15.
Yzer, Jacobus A. L.: *See*—
Geeven, Gomarus M. A. C., and Yzer.
Zalkind, Albert M., Arlington, Va. Infant's marble toy or rattle. 2,662,336, Dec. 15.
Zavolco, Stephen V., West Hartford, assignor to The Eagle Lock Company, Terryville, Conn. Laminated lock body with name plate. 2,662,385, Dec. 15.
Zediker, Ralph E., Buffalo, N. Y. Trouble light 2,662,970, Dec. 15.
Zesbaugh, Lawrence G., assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn. Forming roll. 2,662,451, Dec. 15.
Zschau, Raymond M.: *See*—
Rowe, Edgar A., and Zschau.
Zweigbaum, Edward D., New York, N. Y. Bag. 2,662,619, Dec. 15.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF DECEMBER, 1953

NOTE. Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Communication system. R. A. Clark, Jr. Re. 23,751. Dec. 15.
Driver for variable resistors. M. B. Arisman, A. J. Vaksvik, and R. W. Magnusen. Re. 23,750, Dec. 15.
Hobbing machine. W. S. Praeg. Re. 23,752, Dec 15.
Lamp with adjustable shutter, Portable bed. T. C. Matson, R. N. Riewerts, and D. E. Mortensen. Re. 23,754. Dec. 15.
Plastic products, Coated. J. Bjorksten, S. O Fiedler, and L. L. Yaeger. Re. 23,753, Dec. 15.

LIST OF PLANT INVENTIONS

Azalea plant. M. L. V. Van Zanten. 1,233, Dec. 15.

LIST OF DESIGN INVENTIONS

Basket and comestible container, Combined. W. D. Warren. 171,114, Dec. 15
Bottle, Plastic. D. G. Hills. 171,089, Dec. 15.
Bracket, Shelf. R. J. Bellon and I. J. Ferdinand. 171,075, Dec. 15.
Brooch or similar article, Adjustable. M. Boucher. 171,077, Dec. 15.
Buckle, Belt. A. A. Oshlag. 171,099, Dec. 15
Case, Piano. W. Millington and W. M. Day. 171,097, Dec. 15.
Chain for a necklace or similar article, Link. M. Chernow. 171,082–3, Dec. 15.
Clip, Curtain. D. Karpel. 171,091, Dec 15.
Clock, Electric. R. C. Bridges. 171,078, Dec. 15.
Coffee maker. A. Balboni. 171,074, Dec 15.
Comb. H. L. Athens and O. W. Risto. 171,073, Dec. 15.
Computer housing. T. C. Sandborg. 171,106, Dec. 15.
Console, Organ. W. Millington and W. M. Day. 171,096, Dec. 15
Container, Address. A. L. Shirley. 171,110, Dec. 15.
Educational alphabet cards, Set of. M. E. Corbett and G. C. Hoff. 171,084, Dec. 15.
Game board. F. M. Swan. 171,113, Dec. 15.
Handbag. S. J. Aberman. 171,072, Dec. 15.
Handbag. L. Kaufman 171,092, Dec. 15
Handle, Mowing machine. C. W. Butler. 171,079, Dec 15.
Humidifier, Tobacco showcase. D. Patriarca. 171,102, Dec. 15.
Mat, Place. K. C. Hamilton. 171,088, Dec. 15.
Pen, Ball-point. C. K. Lovejoy. 171,093, Dec. 15.
Price tag. R. J. Slavsky. 171,111, Dec. 15.
Sheet of cushioning material or the like, Flexible. L. Pannone. 171,100, Dec. 15.
Spectacle front. R. F. Schutz. 171,107–9, Dec. 15.
Spectacle front. R. F. E. Stegeman. 171,112, Dec. 15.
Spoon or similar article of flatware. M. Bernstein. 171,076, Dec. 15.
Stand for a hand telephone, Desk. J. M. Robinson, L. J. Greshel, and D. A. Lewis. 171,105, Dec. 15.
Stand or similar article, Smoker's. F. C. and W. H. Panzer. 171,101, Dec 15.
Stapler. R. W. Jenny. 171,090, Dec. 15.
Stapler or similar article, Desk. H. W. Marano. 171,094, Dec. 15.
Stocking, Lady's. C. E. McCarthy. 171,095, Dec. 15.
Stocking, Lady's. A. Wilcher. 171,115, Dec. 15.
Table or the like, Drawing. T. M. Rainey. 171,103, Dec. 15
Toy heel for a shoe or the like. E. Feldman, 171,087. Dec 15.
Toy, Walking. L. J. Campbell. 171,080–1, Dec. 15.
Tray, Carrying. W. H. Randall. 171,104, Dec. 15.
Tray for a wrapped fruit container. J. E. Murphy and M. Schnall. 171,098, Dec 15.
Vest, Double-breasted dress. C. Emms. 171,085, Dec. 15
Vest, Single-breasted dress. C. Emms. 171,086, Dec. 15.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerometer, Manometric. R. E. Bareford. 2,662,956, Dec. 15.
Acoustic means and method for suppressing detonation in internal-combustion engines. A. G. Bodine, Jr. 2,662,513, Dec. 15.
Adjustable tie rod. O. S. French and D. P. Marquis. 2,662,420, Dec. 15.
Adjustment mechanism for microscopes. A. A. Gradisar. 2,662,444, Dec. 15.
Air compressor tank drain valve. D. Wilkerson. 2,662,551, Dec. 15.
Air conditioner, Suspended panel type. G. Frenger. 2,662,743, Dec. 15.
Aircraft control system. W. H. Gille. 2,662,706, Dec. 15.
Air filter. F. A. Krohn. 2,662,609, Dec. 15.
Alcohol, Producing. L. M. Christensen. 2,662,842, Dec. 15.
Alkanol-ether-imides of long-chain aliphatic dicarboxylic compounds. J. Ross and A. L. Gebhart. 2,662,898, Dec. 15.
Alpha, alpha-vitamin A diacid and synthesis of isoprenic polyenes. C. D. Robeson. 2,662,914, Dec. 15.
Alpha-amino acids containing alpha, fluorinated-alkyl or cycloalkyl groups. J. F. Lontz and M. S. Raasch. 2,662,915, Dec. 15.
Aminosiloxanes. L. H. Sommer. 2,662,909, Dec. 15.
Ammonium sulphate, Making. A. M. Thomsen. 2,662,811, Dec. 15.
Ammunition priming composition and producing same. A. G. Schuricht. 2,662,818, Dec. 15.
Amplifier and rectifier, Semiconductor. J. I. Pantchechnikoff. 2,662,976, Dec. 15.
Amplifier circuits for coded carrier current. Vacuum tube. L. R. Allison. 2,662,934, Dec. 15.
Amplifier, High selectivity. K. Nowak. 2,662,939, Dec. 15.
Anchor device for wells, Internal. E. W. Bagnell. 2,662,601, Dec. 15.
Angle connector for electric cable supporting trough systems. F. G. W. Ullberg, Jr. 2,662,709, Dec. 15.
Antenna, Microwave. G. de Pillot de Coligny. 2,663,016, Dec. 15.
Antibacklash servo clutch. J. L. Giffen. 2,662,624, Dec. 15.
Antihistamine compounds. W. Schuler. 2,662,885, Dec. 15.
Apertured metal screens, Preparation of. G. K. Teal. 2,662,274, Dec. 15.
Apparatus adapted for heating shoes. E. H. Simms. 2,662,964, Dec. 15.
Apparatus adapted to the cutting, shaping, or forming of structural members. R. E. Grove. 2,662,563, Dec. 15.
Apparatus and method for joining glass tubulations to glass bulbs. J. V. Ruggiero. 2,662,345, Dec. 15.
Apparatus for centrifugal separation of suspended particles. O. X. Heinrich. 2,662,610, Dec. 15.
Apparatus for converting frozen beverages from a hard state into a liquid state. F. W. Moffett, Jr. 2,662,489, Dec. 15.
Apparatus for dispensing slats. D. G. Kingsley. 2,662,647, Dec. 15.
Apparatus for drilling, deep wells. A. Arutunoff. 2,662,735, Dec. 15.
Apparatus for elevating granular material. H. A. Shabaker. 2,662,706, Dec. 15.
Apparatus for handling metal sheets. J. L. Frcholm. 2,662,630, Dec. 15.
Apparatus for making wheel covers. G. A. Lyon. 2,662,499, Dec. 15.
Apparatus for measuring the density of gases. J. B. McMahon. 2,662,304, Dec. 15.
Apparatus for orienting mitered cleats. D. G. Kingsley. 2,662,633, Dec. 15.
Apparatus for separating solid metallic particles from an electrolyte and comparting the same. W. G. Lovell and N. E. Phillips. 2,662,643, Dec. 15.
Apparatus for the control of electric switch locks in centralized traffic control systems for railroads. G. L. Trout. 2,662,972, Dec. 15.
Applicator roller for liquids. P. F. Nash. 2,662,269, Dec. 15.
Arc lamp regulating device. E. Gretener. 2,662,991, Dec. 15.
Arrangement for single-channel time sharing. L. A. Dorff. 2,662,974, Dec. 15.
Article of furniture, Reclining. A. Lorenz. 2,662,582, Dec. 15.
Ash tray. G. A. Lyon. 2,662,532, Dec. 15.
Assembly for clutches and brakes. T. L. Fawick. 2,662,625, Dec. 15.
Attaching muzzle devices to guns, Method and apparatus for. E. B. Powell and F. A. Pachmayr. 2,662,266, Dec. 15.
Attenuator for seismic gain control. L. B. McManis and J. R. Cooper. 2,663,002, Dec. 15.
Automatic control of slips of drill pipe strings of sounding holes. V. Edelberg. 2,662,737, Dec. 15.
Automatic mechanical clearance regulator. F. W. Sward. 2,662,511, Dec. 15.
Automatically actuated trailer brake. J. A. De Lateur. 2,662,616, Dec. 15.
Automatically reversible current-driven channel cleaner. C. de Villota. 2,662,310, Dec. 15.
Baby walker. A. P. Douglas and L. J. Walters. 2,662,579, Dec. 15.
Bag. E. D. Zweighaum. 2,662,619, Dec. 15.
Bag closing machine. K. Stone. 2,662,357, Dec. 15.
Balanced wrench. T. W. Reynolds. 2,662,437, Dec. 15.
Ball, Athletic. C. J. Crowley. 2,662,771, Dec. 15.
Ball piston pump. F. Paulsmeier and H. Warschau. 2,662,482, Dec. 15.
Barber's clipper holder. J. Hammond. 2,662,719, Dec. 15.
Base for knockdown stands. C. E. Johnson. 2,662,713, Dec. 15.
Base for motors. J. A. McKim. 2,662,988, Dec. 15.
Basket, Resnatron filament. W. H. Kohl. 2,662,990, Dec. 15.
Basket, Stocking stock. J. P. Moorhead. 2,662,662, Dec. 15.
Bath agent, Pickling. J. W. Carroll. 2,662,857, Dec. 15.
Battery separators and the like, Manufacturing. H. F. Dague. 2,662,929, Dec. 15.
Bed, Sleeping car. O. A. Kuhler and W. E. Burnett. 2,662,584, Dec. 15.
Beet topper. L. Borlmer. 2,662,361, Dec. 15.
Bell ringing instrument, Christmas tree. F. L. Bronson. 2,663,013, Dec. 15.
Bin dispenser. J. C. Simon. 2,662,667, Dec. 15.
Bin, Stock. L. T. Almas. 2,662,671, Dec. 15.
Binary counter, Single tube. R. M. Gordon. 2,662,983, Dec. 15.
Binder-strap joint-forming tool. W. C. Childress. 2,662,431, Dec. 15.
Binding for luggage seams and the like. R. J. Vojta. 2,662,620, Dec. 15.
Bit: *See*—
Core bit.
Bleaching cellulose derivatives. R. H. Jenkins, Jr. 2,662,884, Dec. 15.
Blending and/or warming extrusion device for plastics or the like. C. F. Schnuck and W. C. Whittum. 2,662,243, Dec. 15.
Block: *See*—
Single reed cell block.
Board: *See*—
Folding ironing board.
Bobby pin spreader and holder. A. Swanson and A. F. Hefferman. 2,662,533, Dec. 15.
Boiler and toaster, Automatic. E. O. Beer. 2,662,465, Dec. 15.
Bonding copper to aluminum or aluminum alloys. C. R. Culverhouse, Jr. 2,662,831, Dec. 15.
Bonding machine. E. B. Snyder. 2,662,967, Dec. 15.
Bookholder. W. J. Bargen. 2,662,333, Dec. 15.
Booster unit for hydraulic pressure systems. E. R. Price and T. H. Thomas. 2,662,376, Dec. 15.
Bottle cap forming apparatus. E. J. Jonsson. 2,662,498, Dec. 15.
Bottle hooding and capping mechanism. R. Sonnenberg. 2,662,679, Dec. 15.
Bowling ball and pin handling mechanism. J. J. McGinley. 2,662,770, Dec. 15.
Bracing for scaffolds and the like. J. A. Kirkpatrick.
Bracket: *See*—
Motor bracket.
Brake: *See*—
Automatically actuated trailer brake. Self-adjusting wheel brake. 2,662,798, Dec. 15.
Brake and accelerator coordinating device. Automatic. C. H. Rodeback. 2,662,622, Dec. 15.
Brake and wiper. Gauge reel. J. E. Higgins. 2,662,700, Dec. 15.

Brake pedal holding device. R. A. Hanes and H. E. Luebbers. 2,662,728, Dec. 15.
Briquetting roll. B. G. Klugh and G. C. Perrine. 2,662,246, Dec. 15.
Briquetting roll assembly. B. G. Klugh and G. C. Perrine. 2,662,247, Dec. 15.
Buckle with fastener member on slider, Gripping slider type. W. I. Jones. 2,662,258, Dec. 15.
Building wall corner joint. E. E. Styles. 2,662,252, Dec. 15.
Bundling machine. M. G. Shenigo. 2,662,468, Dec. 15.
Burner and flow restrictor, Gas. O. Reich. 2,662,590, Dec. 15.
Burner and heater device with plurality of whirl chambers. G. M. A. C. Geeven and J. A. L. Yzer. 2,662,370, Dec. 15.
Burner control apparatus. H. L. Hanson. 2,662,591, Dec. 15.
Button with insert, Covered. H. J. Koehl. 2,662,259, Dec. 15.
Cabinet construction. C. E. H. Frykdahl. 2,662,660, Dec. 15.
Cable armor, Spirally applied, conductively-contacting. W. E. Mougey. 2,662,931, Dec. 15.
Cable jacketing compositions, Synthetic. A. J. Warner. 2,662,932, Dec. 15.
Cable pulling attachment for vehicles wheels. T. P. Smith. 2,662,731, Dec. 15.
Cable slitting device, Duplex wire. F. Glenger. 2,662,283, Dec. 15.
Car wheel lubricator. C. W. Fisher. 2,662,611, Dec. 15.
Carburetor. R. Anderson and R. F. Bracke. 2,662,758, Dec. 15.
Carding machine, Bobby pin. R. K. Weaver, L. M. Wingblade, and L. E. Thatcher. 2,662,596, Dec. 15.
Carrier: *See*—
Golf club carrier.
Carrying case. J. T. Armbruster. 2,662,637, Dec. 15.
Cart, Two wheel hand. A. J. Wilchek. 2,662,777, Dec. 15.
Carton. W. C. Storer and A. L. Rotruck. 2,662,638, Dec. 15.
Carton and box inverter. P. Bianchi and J. C. Rothwell. 2,662,653, Dec. 15.
Carton, Collapsible partitioned. K. T. Buttery. 2,662,683, Dec. 15.
Carton, Multicell collapsible. H. V. Bolding. 2,662,682, Dec. 15.
Carton structure. L. J. Robins. 2,662,684, Dec. 15.
Cartoning machine. A. H. Ross. 2,662,355, Dec. 15.
Case: *See*—
Carrying case.
Cast iron, Producing. L. C. Crome. 2,662,820, Dec. 15.
Casting rod. C. E. Henry. 2,662,329, Dec. 15.
Catalyst and method for selective oxidation. W. R. Middleton. 2,662,921, Dec. 15.
Cathode-ray tube support. M. F. De Boy. 2,663,011, Dec. 15.
Cell case partition assembling machine. G. G. Porter. 2,662,453, Dec. 15.
Ceramic compositions, Self-glazing. P. Schuepp. 2,662,826, Dec. 15.
Chair: *See*—
Nursery chair.
Chair for aerial ski lifts. A. McIlvaine. 2,662,587, Dec. 15.
Check valve. I. E. Coffey. 2,662,723, Dec. 15.
Check valve. C. Kravagna. 2,662,724, Dec. 15.
Chest binder. C. A. Muller. 2,662,522, Dec. 15.
Chloramphenicol esters and obtaining same. W. H. Edgerton. 2,662,906, Dec. 15.
Chlorinated cyclic organic trithiocarbonate and preparing same. J. T. Bashour. 2,662,899, Dec. 15.
Chloromethylated arylaminoanthraquinones. D. I. Randall and E. E. Renfrew. 2,662,902, Dec. 15.
Chromium coordination complexes of saturated perfluoromonocarboxylic acids and articles coated therewith. T. S. Reid. 2,662,835, Dec. 15.
Circuit breaker, Automatic. P. M. Christensen. 2,662,950, Dec. 15.
Circuit breaker, Electric. W. D. Boller, W. D. Berkley, W. Ernst, and E. W. Landmeier. 2,662,951, Dec. 15.
Circuit breaker, Multipole. P. M. Christensen. 2,662,948, Dec. 15.
Circuit breaker, Multipole. P. M. Christensen and A. R. Norden. 2,662,949, Dec. 15.
Circuit for use in cathode coupled circuits, Coupling. H. E. Goldstine. 2,662,938, Dec. 15.
Circuits, Pulse synchronizing. M. W. Baker and D. A. U. Rush. 2,662,982, Dec. 15.
Circuits, Wave form generating. C. A. Segerstrom. 2,662,981, Dec. 15.
Clamp. J. M. Mikoski. 2,662,261, Dec. 15.
Cleaner: *See*—
Automatically reversible current-driven channel cleaner.
Clip: *See*—
Fence post clip.
Clock, Individually corrected secondary. G. L. Riggs, Jr. 2,662,367, Dec. 15.
Closure for pressure vessels. E. G. Schmidt and F. J. Cantalupo. 2,662,663, Dec. 15.
Clutch: *See*—
Antibacklash servo clutch.
Coating composition comprising a polyamide and a phenol-formaldehyde resin dissolved in an aqueous alcohol solution. D. N. Beauchamp. 2,662,865, Dec. 15.
Coating composition, Scribable. R. P. Dubusc. 2,662,828, Dec. 15.
Cog drive. R. N. Shields. 2,662,415, Dec. 15.
Combination horizontally and vertically swinging gate. W. J. Barnard. 2,662,320, Dec. 15.
Combined type garment hanger. A. Reguitti. 2,662,674, Dec. 15.
Comfort for colostomy pouches, Sanitary. A. D. Priebe. 2,662,525, Dec. 15.
Common control for the locking of two machine tool members. M. Pegard. 2,662,265, Dec. 15.
Compass correction system, Gyroscopic. L. F. Beach. 2,662,301, Dec. 15.
Composition and method for removing hardened silicone resin glazes from metal surfaces. I. J. Duncan. 2,662,837, Dec. 15.
Composition for preparing soldered metal surfaces for painting. G. E. Oven and W. Suter. 2,662,838, Dec. 15.
Composition of matter, Production of. M. Kleiman and A. Goldman. 2,662,922, Dec. 15.
Compositions and process for emulsion breaking. W. H. Kirkpatrick. 2,662,859, Dec. 15.
Compression ignition internal-combustion engine. L. O. French. 2,662,510, Dec. 15.
Compressor, Valve spring. N. Peters. 2,662,275, Dec. 15.
Concrete mixer. C. Gerst. 2,662,755, Dec. 15.
Condensing system for distillation column. W. W. Kraft. 2,662,850, Dec. 15.
Constructing buildings. W. P. Neil. 2,662,391, Dec. 15.
Construction of interchangeable dies, punches, etc. R. H. Parsons. 2,662,773, Dec. 15.
Container: *See*—
Permeability test container. Portable food container.
Container and closure assembly. H. L. Carpenter. 2,662,788, Dec. 15.
Container and slitted resilient valve therefor, Dispensing. J. Schmidt. 2,662,668–9, Dec. 15.
Continuous gluing press. H. H. Payzant. 2,662,564, Dec. 15.
Control apparatus. F. H. Fellows and H. H. Gorrie. 2,662,509, Dec. 15.
Control for toasters, Bread-actuated. M. Ireland. 2,662,466, Dec. 15.
Control system. V. S. Rutherford, A. J. Hornfeck, and P. S. Dickey. 2,662,540, Dec. 15.
Control system, Thermomechanical. H. J. Frey. 2,662,992, Dec. 15.
Controlling apparatus. L. E. Harper. 2,662,665, Dec. 15.
Conversion or cracking of light and heavy oil fractions in the presence of subdivided contact material. F. W. Leffer. 2,662,844, Dec. 15.
Conveyer apparatus, Container-aligning. J. Black and O. Hedstrom. 2,662,632, Dec. 15.
Conveyer extension, Auxiliary. H. A. Tintes. 2,662,634, Dec. 15.
Conveyer for grain combines, Straw. D. P. Keith. 2,662,529, Dec. 15.
Conveying machine, Can. E. C. Kraus and M. V. Douthitt. 2,662,631, Dec. 15.
Cooling unit, Condenser. J. R. Boyle. 2,662,741, Dec. 15.
Copolymers of acrylonitrile and allyl amines. D. W. Chaney. 2,662,877, Dec. 15.
Core bit. F. F. Davis and S. G. Richmond. 2,662,738, Dec. 15.
Corrosion inhibition with nitrobenzaldehydes. W. W. Newachwander. 2,662,808, Dec. 15.
Cotton stripper. M. W. Roscoe. 2,662,360, Dec. 15.
Counter for coil winding machines. W. Sivo and H. S. Walendzik. 2,662,693, Dec. 15.
Counter, Reversible electronic. G. Nadsy. 2,662,692, Dec. 15.
Coupling manual flow control, Automatic quick-disconnect. C. B. Livers. 2,662,784, Dec. 15.
Crankshaft construction. B. Nelson. 2,662,267, Dec. 15.
Crib, small bathtub, and toilet unit, Combination. C. King. 2,662,231, Dec. 15.
Cross arm supporting gain for attachment to transmission line poles. K. C. Jenne. 2,662,714, Dec. 15.
Crystal contact device. E. G. James and A. O. E. Lindell. 2,662,984, Dec. 15.
Crystal mounting for delay lines. W. M. A. Andersen. 2,663,006, Dec. 15.
Cultivator. L. Hammon. 2,662,462, Dec. 15.
Cutter: *See*—
Line stopper shell cutter.
Cutting machine drive means. W. P. Gallagher. 2,662,413, Dec. 15.
Decoy, Collapsible. N. P. Petersen. 2,662,327, Dec. 15.
Defrosting system for refrigeration machines, Automatic. M. S. Sutton. 2,662,380, Dec. 15.
Degreasing apparatus. H. H. Jones and R. C. White. 2,662,851, Dec. 15.
Dehydrochlorination of polychlorocyclohexanes. D. D. Humphreys. 2,662,924, Dec. 15.
Density responsive device. F. C. Mock. 2,662,757, Dec. 15.
Denture. C. McNally. 2,662,288, Dec. 15.
Depth gauge. J. A. Stedman. 2,662,296, Dec. 15.
Desulfurizing carbon-coated metals. E. J. Becker and F. J. Biondi. 2,662,839, Dec. 15.

Detachably securing implements to tractors, Means for. R. B. Shore. 2,662,459, Dec. 15.
Determining the size of a subsurface ore body. H. O. Seigel. 2,663,004, Dec. 15.
Determining the volume of articles, Method and apparatus for. L. I. Weiner and B. P. Berman. 2,662,400, Dec. 15.
Detonation suppression piston for internal-combustion engines. A. G. Bodine, Jr. 2,662,514–5, Dec. 15.
Device for capping transmitters. C. C. McCain. 2,662,646, Dec. 15.
Device for removing the ends of cans. H. C. Wilson. 2,662,279, Dec. 15.
Device for simultaneously clamping and releasing plural workpieces. E. Braun. 2,662,433, Dec. 15.
Device for the gunnery instructions. G. C. A. Alric. 2,662,305, Dec. 15.
Device for weaving of fabrics. V. Svatý. 2,662,556, Dec. 15.
Diaminofluorene derivatives. D. R. Eberhart and N. K. Barabutes. 2,662,913, Dec. 15.
Diamond dressing tool. L. H. Metzger. 2,662,519, Dec. 15.
Diaper holder and the like. M. M. Sanford. 2,662,526, Dec. 15.
Diarylguanidine vulcanization accelerators. M. L. Nadler. 2,662,927, Dec. 15.
Die quenching apparatus. T. J. Doyle. 2,662,537, Dec. 15.
Disk knife slitting mechanism, Multibladed. H. A. Burdwood. 2,662,598, Dec. 15.
Disk rolling machine. L. H. and L. E. Goodell. 2,662,572, Dec. 15.
Dispenser: *See*—
Bin dispenser.
Mercury dispenser.
Self-leveling dispenser.
Dispensing attachment for bottles. A. L. Voight. 2,662,670, Dec. 15.
Distillation of cyclopentanone from 2-methyl-1-butanol and 3-methyl-1-butanol. T. Q. Eliot and J. C. Weaver, Jr. 2,662,847, Dec. 15.
Doll eyes. B. L. Samuels and O. Doster. 2,662,340, Dec. 15.
Doll, Multifaced. W. L. Paul. 2,662,339, Dec. 15.
Door for darkrooms. W. R. Winkler. 2,662,253, Dec. 15.
Door lock. G. Hagstrom. 2,662,387, Dec. 15.
Door lock. C. A. Hillgren. 2,662,386, Dec. 15.
Door lock. C. A. Hillgren. 2,662,388, Dec. 15.
Double cone reel. F. M. Littell. 2,662,698, Dec. 15.
Drafting machine. C. H. Little. 2,662,291, Dec. 15.
Dragging equipment detectors, Self-restoring. K. J. J. McGowan and R. A. Woods. 2,662,973, Dec. 15.
Drainage control system. L. J. Martiniak and J. W. Dusenberry. 2,662,536, Dec. 15.
Drawing mechanism for textile machines, Double belt. K. H. Neu. 2,662,249, Dec. 15.
Drier: *See*—
Hair drier.
Dry gas meter. S. Simpson. 2,662,403, Dec. 15.
Drying film by dielectric heating, Method and apparatus for. J. B. Cunningham and F. Wilburn. 2,662,302, Dec. 15.
Drying resins from oil-modified alkyds and liquid polybutadiene. W. W. Crouch. 2,662,862, Dec. 15.
Dumping device for mold conveyers, Tiltable. R. J. Anderson. 2,662,651, Dec. 15.
Dyeing cellulose fibers with direct-dyeing cupriferous azodyestuffs and dyebaths used therefor. J. Wegmann and K. Menzi. 2,662,807, Dec. 15.
Dyeing of cellulosic materials and dyestuff preparations suitable for this purpose. K. Menzi, H. Riat, and J. Wegmann. 2,662,806, Dec. 15.
Dyes of the dibenzanthrone series. P. R. Johnson. 2,662,892, Dec. 15.
Edging and tracking means for walkways and the like. A. Peterson. 2,662,342, Dec. 15.
Ejecting mechanism for glass forming apparatus. H. B. Knox. 2,662,344, Dec. 15.
Electric air heater. M. H. Wessel. 2,662,963, Dec. 15.
Electric pulse operated motor. L. B. Johnson. 2,662,987, Dec. 15.
Electric switch. R. W. J. Cockram. 2,662,945, Dec. 15.
Electric table. W. Bruchhausen. 2,662,966, Dec. 15.
Electrical control system for liquid fuel burners. F. B. Aubert. 2,662,589, Dec. 15.
Electrical pick-off for gyroscopes. J. E. Lundberg and G. A. Wallace. 2,662,411, Dec. 15.
Electrical resistance unit. T. N. Flight and W. H. Wilson. 2,662,958, Dec. 15.
Electrical resistor or semiconductor. P. Eisler. 2,662,957, Dec. 15.
Electrical unit, Hermetically sealed. O. J. Morelock. 2,662,930, Dec. 15.
Electrically internally heated steering wheel. B. M. Sargent. 2,662,961, Dec. 15.
Electrodeposition of nickel. D. G. Ellis. 2,662,853, Dec. 15.
Electrolytic capacitor and forming the electrodes thereof J. E. Lilienfeld. 2,662,995, Dec. 15.
Electron discharge device and system. L. Malter. 2,662,993, Dec. 15.
Electron discharge device arrangement, Coaxial line resonator. A. Horvath. 2,662,937, Dec. 15.
Electronic pressure indicator. L. E. Ellison. 2,662,408, Dec. 15.
Electronic sequence control for intermittent operation of rotary electrode welding apparatus. J. J. Riley and R. Alm. 2,662,959, Dec. 15.
Electrophotographic plate, Producing an. A. E. Middleton and O. J. Mengali. 2,662,832, Dec. 15.
Electrostatic coating method and apparatus. R. E. Helmuth. 2,662,833, Dec. 15.
Electrostatic precipitator. A. C. Fields. 2,662,608, Dec. 15.
Elevator, Pipe. W. E. Kittler. 2,662,791, Dec. 15.
Elliptical conoidal sound reproducing diaphragm. R. E. Hurley. 2,662,606, Dec. 15.
Emulsifying apparatus. J. F. Miller and M. C. Jaskowski. 2,662,752, Dec. 15.
Emulsion polymerization of vinyl acetate. J. E. Bristol, W. A. Harrington, and N. Turnbull. 2,662,863, Dec. 15.
Emulsion polymerization of vinyl acetate. J. E. Bristol and N. Turnbull. 2,662,866, Dec. 15.
Engine: *See*—
Compression ignition internal-combustion engine.
Engine combination, Mixed pressure turbine. O. J. Baggerud. 2,662,369, Dec. 15.
Engine speed control system, Electronic. F. F. Offner. 2,662,372, Dec. 15.
Esters of cyclic alcohols, Substituted. F. Leonard. 2662,887, Dec. 15.
Explosive assemblies, Making. W. R. Farren. 2,662,441, Dec. 15.
Extraction of lower fatty acids. F. N. Bent. 2,662,916, Dec. 15.
Extraction of valuable products from bark. E. F. Kurth. 2,662,893, Dec. 15.
Extractive distillation purification of acetone. W. G. Emerson, Jr. and J. R. Quelly. 2,662,848, Dec. 15.
Eyepiece with variable magnification, Erecting. G. F. E. Loeck. 2,662,443, Dec. 15.
Fabric: *See*—
Pile fabric.
Fabricating plow moldboards. H. M. De Brabant. 2,662,268, Dec. 15.
Fan wheel. D. F. Wuerfel. 2,662,686, Dec. 15.
Fence post clip. W. E. White. 2,662,740, Dec. 15.
Fence, Precast picket. M. W. and E. G. Fisher. 2,662,739, Dec. 15.
Fiber preparation device. C. G. Muench. 2,662,821, Dec. 15.
Fifth wheel for tractor trailers and the like. G. C. Schaefer. 2,662,799, Dec. 15.
File-guide, Saw sharpening. E. M. Greenlee. 2,662,423, Dec. 15.
Filing device, Saw. T. R Roberts. 2,662,425, Dec. 15.
Film cartridge for photographic cameras. H. Nerwin. 2,662,696, Dec. 15.
Filter: *See*—
Air filter.
Final connection between preassembled units of self-supporting automobile bodies. A. R. Lindsay. 2,662,794, Dec. 15.
Finger rest for application of nail polish. C. Swartz. 2,662,534, Dec. 15.
Fishhook dislodging and extracting instrument. B. F. Borup. 2,662,331, Dec. 15.
Fish lure. A. R. Ogburn. 2,662,330, Dec. 15.
Fish stringer. H. R. Milan and O. L. Bluege. 2,662,257, Dec. 15.
Fishing reel. M. E. Lee. 2,662,699, Dec. 15.
Fishing tackle retriever. M. Oyler. 2,662,328, Dec. 15.
Flagpole ornament. J. K. Granacher. 2,662,324, Dec. 15.
Flameproofing process. W. D. Paist and N. Van Gordel 2,662,834, Dec. 15.
Flaring tool. G. W. Wolcott. 2,662,575, Dec. 15.
Flashlight lamp. P. Saraber. 2,662,968, Dec. 15.
Flight test head. D. B. Ince, Jr. and D. V. Shafer. 2,662,402, Dec. 15.
Flight training apparatus. C. W. Soulé. 2,662,304, Dec. 15.
Flow control apparatus. J. E. Comeau. 2,662,547, Dec. 15.
Flow controlling apparatus. T. C. Noon. 2,662,541, Dec. 15.
Flow indicator for hose. R. R. Turner. 2,662,502, Dec. 15.
Fluid-counterbalanced force measuring device. A. A. Markson. 2,662,539, Dec. 15.
Fluid flow dual port control valve. S. F. Graziano. 2,662,722, Dec. 15.
Fluid level indicator. L. H. Tapscott. 2,662,405, Dec. 15.
Fluid pressure regulator. W. J. Jacobsson. 2,662,348, Dec. 15.
Fluid pressure sensitive switch. J. Schweiss. 2,662,946, Dec. 15
Fluid seal, Rotary. T. L. Fawick. 2,662,785, Dec. 15.
Folding ironing board. E. E. Foster. 2,662,318, Dec. 15.
Food mixer. J. A. Schwarz. 2,662,753, Dec. 15.
Food mixer casing. W. Van Guilder. 2,662,421, Dec. 15.
Foot operated hydraulic pump. G. W. McLellan. 2,662,475, Dec. 15.
Forming glass, Method and apparatus for. J. W. Giffen. 2,662,346, Dec. 15.
Forming molds for casting thermosetting transparent enclosures. R. S. Ames. 2,662,248, Dec. 15.

Forming roll. L. G. Zesbaugh. 2,662,451, Dec. 15.
Forming thin-walled metal sleeves, Method and apparatus for. E. C. Cichoski and W. C. Daie. 2,662,573, Dec. 15.
Fountain, Automatic watering. E. B. Johnson. 2,662,503, Dec. 15.
Frame: *See*—
Handsaw frame.
Front support members and bellows mounting means for photographic cameras. O. Steiner. 2,662,456, Dec. 15.
Fuel injection apparatus. L. O. French. 2,662,476, Dec. 15.
Fuel-system testing device. W. W. Rocklen. 2,662,398, Dec. 15.
Fuel valve timing gauge. U. P. Cole. 2,662,298, Dec. 15.
Furnace: *See*—
Open hearth furnace.
Oscillatory, direct-fired, stack-loaded melting furnace.
Fuse, Circuit interrupting. J. Nivoix. 2,662,952, Dec. 15.
Fuse cutout and switch, Combination. W. D. Kyle, Jr. 2,662,947, Dec. 15.
Fuse holder. R. C. Barker. 2,662,953, Dec. 15.
Garment hanger. L. W. Walker. 2,662,675, Dec. 15.
Gaseous fluid flow system. N. A. Dimmock. 2,662,553, Dec. 15.
Gasification of carbonaceous materials containing volatile constituents. J. C. Kalbach. 2,662,816, Dec. 15.
Gate: *See*—
Combination horizontally and vertically swinging gate.
Self-cleaning butterfly gate.
Gauge: *See*—
Depth gauge.
Fuel valve timing gauge.
Measuring-marking space gauge.
Mechanical gauge.
Gauge, P. E. Heal. 2,662,295, Dec. 15.
Gauge for testing out-of-roundness and diameters of cylindrical holes. G. E. Reichertz. 2,662,297, Dec. 15.
Gear shaping machine. W. S. Praeg. 2,662,449, Dec. 15.
Generator: *See*—
Steam generator.
Glass forming mold. J. W. Giffen. 2,662,347, Dec. 15.
Glass severing apparatus. J. W. Giffen. 2,662,289, Dec. 15.
Glide path selector for blind landing systems. J. Charlton. 2,663,017, Dec. 15.
Glove compartment light. T. I. Thompson. 2,662,969, Dec. 15.
Golf club carrier. G. R. Hurst. 2,662,776, Dec. 15.
Golf tee holder. H. O. Perry. 2,662,677, Dec. 15.
Governor. D. J. Schaffer. 2,662,512, Dec. 15.
Governor for sprayers. L. E. Bartling. 2,662,795, Dec. 15.
Gravure printing of typographical characters, Means for. H. R. Freund. 2,662,455, Dec. 15.
Grinding machine, Precision. C. T. Rhodes. 2,662,352, Dec. 15.
Grounding and testing device for metal clad switchgears. J. F. Chipman. 2,662,994, Dec. 15.
Guiding, floating, and cementing well casing in bored holes, Means for. S. B. Schnitter. 2,662,602, Dec. 15.
Gyrostabilized carrier aircraft approach light indicator. A. J. McEwan. 2,663,008, Dec. 15.
Hair drier. C. Myers. 2,662,303, Dec. 15.
Halogenation process. R. P. Holysz, Jr., and J. A. Campbell. 2,662,903, Dec. 15.
Handsaw frame. P. F. La Roche. 2,662,567, Dec. 15.
Hand-vise. J. Pelti. 2,662,432, Dec. 15.
Handle construction, Electric iron. J. R. Gomersall and M. Ireland. 2,662,317, Dec. 15.
Handle for hack saw blades. J. E. Swalinkavich, Jr. 2,662,569, Dec. 15.
Handle for inner spring mattresses and the like. J. A. Ferguson. 2,662,235, Dec. 15.
Hanger: *See*—
Combined type garment hanger.
Garment hanger.
Hanger shell puller. M. R. Sheaffer. 2,662,276, Dec. 15.
Hardness tester. D. C. Goldberg and R. E. Schafer. 2,662,397, Dec. 15.
Harrow, Bush and hog. F. D. Sawyer. 2,662,783, Dec. 15.
Harvesting machine. R. S. Hertzler. 2,662,414, Dec. 15.
Hayrake, Large. F. O. Worden. 2,662,363, Dec. 15.
Heat exchange panel structure. A. T. Jorn. 2,662,746, Dec. 15.
Heat exchange structures, Making. G. R. Long. 2,662,273, Dec. 15
Heat exchanger, Annular flow. H. F. Buschow. 2,662,749, Dec. 15.
Heat exchanger for producing granular salt products. E. W. Douglass and P. S. Dunn. 2,662,742, Dec. 15.
Heat exchanger with adjustable casing for varying recirculation. L. R. Huber. 2,662,748, Dec. 15.
Heater: *See*—
Electric air heater.
Heating and air distributing structure, Radiant panel. A. T. and A. Jorn, Jr. 2,662,745, Dec. 15.
Heating system and integral tube and clip for use therein, Panel. R. L. Leadbetter, A. S. Chipley, and C. P. Certik. 2,662,744, Dec. 15.
Hinge accessory. A. M. Hess. 2,662,242, Dec. 15.
Hoe. W. L. Upson. 2,662,461, Dec. 15.
Hoe guided by tractor steering mechanism, Grape. R. E. Ermey. 2,662,458, Dec. 15.
Hoisting mechanism, Scaffold. R. Allenbaugh. 2,662,732–3, Dec. 15.
Holder: *See*—
Barber's clipper holder.
Fuse holder.
Golf tee holder.
Holder for pot covers or the like. E. E. Johnson. 2,662,717, Dec. 15.
Hour meter. W. H. Farr. 2,662,365, Dec. 15.
Hull construction, Boat. H. C. Carey. 2,662,237, Dec. 15.
Hulling machine having rubber hulling surfaces of different hardness. E. F. Hansen. 2,662,570, Dec. 15.
Hydraulic adjustment for V-type ditching blades. R. C. Chattin. 2,662,311, Dec. 15.
Hydraulic control device for high-pressure liquid-fuel-supply pumps of pressure-atomizing oil burners. J. A. Logan and G. D. Robinson. 2,662,542, Dec. 15.
Hydraulic impact tool. W. H. Cline, Jr. 2,662,505, Dec. 15.
Hydrocarbon synthesis reaction. H. Z. Martin. 2,662,912, Dec. 15.
Hydrogen treatment of heavy hydrocarbons. C. W. Montgomery and W. A. Horne. 2,662,846, Dec. 15.
Hydrolysis of alkenyl alkyl ethers in the vapor phase. H. J. Hagemeyer, Jr. and D. C. Anderson. 2,662,919, Dec. 15
Hydrophilic colloid, Preparing a. G. Christiansen and P. E. Ramstad. 2,662,882, Dec. 15.
Impedance, for example adjustable resistors, Adjustable. J. Erkelens. 2,662,955, Dec. 15.
Implement with plurality of plow elements. H. G. Klemm and N. A. Nelson. 2,662,460, Dec. 15.
Indicating switch. M. R. Winkler. 2,662,942, Dec. 15.
Indicator: *See*—
Electronic pressure indicator.
Fluid level indicator.
Gyrostabilized carrier aircraft approach light indicator.
Radiation-absorption type liquid level indicator.
Information-storing device. C. S. Carney, E. H. Fritze, and L. C. Stanley. 2,662,944, Dec. 15.
Injector device. S. H. Lamport. 2,662,666, Dec. 15.
Insecticide fogger. G. W. McIntire. 2,662,332, Dec. 15.
Insole, Adjustable orthopedic. D. J. Morton. 2,662,309, Dec. 15.
Intaglio engraving press. E. A. Gillis. 2,662,471, Dec. 15
Integrating apparatus. R. W. Gilbert. 2,662,689, Dec. 15.
Intermittent impact water wheel. P. H. Thomas. 2,662,726, Dec. 15
Internal-combustion pump. G. Di Lorenzo. 2,662,487, Dec. 15.
Iron: *See*—
Steam iron.
Ironing machine, Multiple. J. H. Loef. 2,662,315, Dec. 15.
Ironing table. H. E. Hortman, Jr. 2,662,319, Dec. 15.
Isomerization of xylenes. D. A. McCaulay and A. P. Lien. 2,662,925, Dec. 15.
Jack: *See*—
Scaffold erecting ladder jack.
Jalousie operator. D. H. McGogy. 2,662,623, Dec. 15.
Jaw control for chuck devices. M. H. Emrick. 2,662,774, Dec. 15.
Jet turbine engine fuel, including methanol and isopropanol. B. B. Russell, 3rd and N. H. Rickles. 2,662,817, Dec. 15.
Joining sections of strip for a uniform-speed continuous-feed strip-treating line. J. I. Greenberger. 2,662,271, Dec. 15.
Joint: *See*
Building wall corner joint.
Universal joint.
Joints, Making fused. A. L. Stone. 2,662,277, Dec. 15.
Joists, Manufacture of fabricated. R. C. Macomber. 2,662,272, Dec. 15.
Ketosiloxanes. L. H. Sommer. 2,662,910, Dec. 15.
Key slot plug. D. N. Michnoff and C. M. Palmer. 2,662,390, Dec. 15.
Kiln, Portable. F. W. Fuger. 2,662,263, Dec. 15.
Knife construction having a sliding blade. P. H. Unsinger. 2,662,284, Dec. 15.
Knife, Microtome. G. W. Jacoby, Jr. 2,662,445, Dec. 15
Knife, Multipoint removable blade. A. C. Ferguson. 2,662,287, Dec. 15.
Knitting mechanism and method. V. Lombardi. 2,662,383, Dec. 15.
Ladder and hinge members therefor, Foldable. B. E. Stapleton. 2,662,681, Dec. 15.
Laminated structures, Manufacture of. E. G. Mitchell and D. B. Timberman. 2,662,270, Dec. 15.
Lamp: *See*—
Flashlight lamp.
Latch: *See*—
Magnetic latch.
Latching mechanism, Door. F. M. Hogg. 2,662,790, Dec. 15.
Lathe for machining crankshafts, Orbital. J. Irtenkauf and A. Grupp. 2,662,438, Dec. 15.
Leg assembly for wheeled trucks. J. R. Ristow. 2,662,778, Dec. 15.

Length-assorting and conveying apparatus for lumber after dekuotting operations. H. H. Dedo. 2,662,640, Dec. 15.
Leveler attachment for dump trucks, Dirt. L. M., M. V., and M. L. Mowe. 2,662,313, Dec. 15.
Leveler, Land. J. G. Lindeman and C. V. Edwards. 2,662,314, Dec. 15.
Light: *See*—
Glove compartment light. Trouble light.
Light for vehicles, Retractable fog-beam. M. L. Riggs. 2,662,605, Dec. 15.
Line stopper shell cutter. F. H. Mueller. 2,662,428, Dec. 15.
Liquid contact apparatus for cleaning gas. R. L. McIlvaine. 2,662,756, Dec. 15.
Liquid settling of fluorescent screens. P. W. Krause. 2,662,829, Dec. 15.
Loading machine, Carton. C. R. Swafford. 2,662,356, Dec. 15.
Lock: *See*—
Door lock. Reel arbor lock.
Lock body with name plate, Laminated. S. V. Zavoico. 2,662,385, Dec. 15.
Lock for switches, Safety. E. R. McKitrick. 2,662,389, Dec. 15.
Locking mechanism, Numeral wheel. C. F. Webb. 2,662,690, Dec. 15.
Logotype structure for calculating machines, Removable. E. M. Lippert. 2,662,473, Dec. 15.
Lubricator: *See*—
Car wheel lubricator.
Machine for bonding and debonding brake shoe linings. J. B. Williams. 2,662,960, Dec. 15.
Machine for making printed, corrugated box blanks. M. H. Sidebotham. 2,662,452, Dec. 15.
Machine for milling impeller wheels. P. T. Angell and C. D. Vaughn. 2,662,450, Dec. 15.
Machine for the continuous manufacture of a stuffing material. C. B. Pukacz. 2,662,576, Dec. 15.
Machine for the shaping of metal pieces, more particularly of saw teeth. G. Smal. 2,662,424, Dec. 15.
Machine for wiping in hardened inserts for rock drill bits. F. Fort and E. C. Krug. 2,662,500, Dec. 15.
Machine for wrapping tire beads. G. A. Kaebnick, R. D. Parr, and J. L. Otatot. 2,662,467, Dec. 15.
Magnetic abrasion tool. H. Bergman and O. Behnke. 2,662,353, Dec. 15.
Magnetic latch. J. B. Horvay. 2,662,787, Dec. 15.
Magnetic pickup. E. J. Martin. 2,662,996, Dec. 15.
Making trimming. R. A. Gordon. 2,662,577, Dec. 15.
Manometer. J. G. Dwyer. 2,662,409, Dec. 15.
Marking device. I. S. Gottscho. 2,662,469, Dec. 15.
Mast, Telescopic. L. C. Rose. 2,662,712, Dec. 15.
Material-handling apparatus. C. W. Ruth. 2,662,792, Dec. 15.
Materials handling apparatus. J. F. Joy. 2,662,635, Dec. 15.
Measuring-marking space gauge. G. Haister. 2,662,290, Dec. 15.
Mechanical gauge. A. Brandt. 2,662,294, Dec. 15.
Mechanically driven selector switch. J. M. Unk, N. Scheffer, and B. M. Pennekamp. 2,662,936, Dec. 15.
Mechanism for maintaining alignment of an apron in a textile machine. T. A. Dourdeville. 2,662,767, Dec. 15.
Melamine condensation products and preparing the same. F. Kaess, E. Doehlemann, and E. Vogel. 2,662,873, Dec. 15.
Mercury dispenser. H. E. Baker. 2,662,678, Dec. 15.
Metal plated smoking pipe. E. R. Rinehart. 2,662,531, Dec. 15.
Meter: *See*—
Dry gas meter. Hour meter.
Metering device, Coin-controlled mileage. E. R. Cappelle. 2,662,627, Dec. 15.
Method and composition for chemically polishing metals. J. R. Swihart. 2,662,814, Dec. 15.
Microbiocidal treatment of water with bromine chloride. J. Kamlet. 2,662,855, Dec. 15.
Micrometer and attachment. L. M. Rutherford. 2,662,293, Dec. 15.
Milk fat blending apparatus. V. Schwarzkopf. 2,662,751, Dec. 15.
Mineral oil compositions. J. W. Bishop. 2,662,856, Dec. 15.
Mirror device, Traffic. G. A. Couture. 2,662,448, Dec. 15.
Mixer: *See*—
Concrete mixer. Food mixer.
Mixing textile fibers, Method and device for. H. Schweizer. 2,662,250, Dec. 15.
Modified methylol melamines and making and using same. D. M. Gagarine, W. B. Smith, Jr., and M. J. Spangler. 2,662,872, Dec. 15.
Mold: *See*—
Glass forming mold.
Mold construction, Retread. E. W. Hawkinson. 2,662,244–5, Dec. 15.
Mold for casting concrete fence posts, Expansible. J. C. Wollard and A. H. Sexton. 2,662,262, Dec. 15.
Molded alumina carrier and catalyst, Production of. W. F. Engel and P. Krijger. 2,662,860, Dec. 15.
Mosaic screen, Preparation of two-sided. G. K. Teal. 2,662,852, Dec. 15.
Motor: *See*—
Electric pulse operator motor.
Motor bracket. R. E. Johnson. 2,662,497, Dec. 15.
Motor control for shaft positioning systems, Electric. R. F. Witters. 2,662,998, Dec. 15.
Motor of the metadyne type, Electric. J. M. Pestarini 2,662,999, Dec. 15.
Mounting for chair backs, Resilient. R. A. Cramer. 2,662,586, Dec. 15.
Mounting for initials or ornamental members. L. W. Cheney. 2,662,323, Dec. 15.
Mounting for initials or ornamental members. J. D. Gosselin. 2,662,322, Dec. 15.
Mounting for semiconductors. H. Christensen. 2,662,997, Dec. 15.
Mower attachment, Tractor. W. H. Tanke. 2,662,358, Dec. 15.
Multiport valve. J. R. Rhinehart and C. H. Eshrich. 2,662,549, Dec. 15.
Multicellular fractionation column and the like. A. K. Brewer. 2,662,759, Dec. 15.
Muzzle device, Shotgun. E. B. Powell. 2,662,326, Dec. 15.
N-glycosides of 5,6 dimethyl benzimidazoles, Preparation of. F. W. Holly, C. H. Shunk, and K. Folkers. 2,662,883, Dec. 15.
Necktie having adjustable neckband and band element therefor. W. Mayer. 2,662,226, Dec. 15.
Needle-bar drive for zig-zag sewing machines. F. Parry. 2,662,495, Dec. 15.
Needle, Tenacular. A. P. Hudgins. 2,662,524, Dec. 15.
Nursery chair. R. L. Wenkstern. 2,662,229, Dec. 15.
Object location system employing logarithmic transducer. D. E. Sunstein. 2,663,015, Dec. 15.
Oil retainer for gloves or mitts. R. F. Wheeler. 2,662,225, Dec. 15.
1-phenyl-2,3-dimethyl-4-amino-5-pyrazolone-N-phosphoric acid diakyl-esters. E. Tonutti, W. Schoeller, and J. Jónás. 2,662,894, Dec. 15.
Open hearth furnace. J. H. Chesters. 2,662,761, Dec. 15.
Opener, Can. M. J. La Forte. 2,662,280, Dec. 15.
Opener, Power-driven can. J. M. Karwacki. 2,662,278, Dec. 15.
Orienting device. H. J. Graham and P. F. Powder. 2,662,626, Dec. 15.
Orthopedic and prosthetic appliance. C. H. Bennington. 2,662,228, Dec. 15.
Oscillatory, direct-fired, stack-loaded melting furnace. A. Arutunoff. 2,662,764, Dec. 15.
Outboard motor test tank. H. C. Chapman. 2,662,399, Dec. 15.
Oxidation inhibitors. H. W. Rudel. 2,662,815, Dec. 15.
Oxidation of aromatic hydrocarbons to phenols. W. H. Reeder, III. 2,662,923, Dec. 15.
Oxidation of fatty acids. R. L. Logan. 2,662,908, Dec. 15.
P-chlorophenyl (2-pyridyl) (β-dimethylaminoethoxy) methane. N. Sperber, D. Papa, and E. Schwenk. 2,662,891, Dec. 15.
Packing device. W. D. Putnam. 2,662,659, Dec. 15.
Pad: *See*—
Sanitary pad.
Page end indicator for typewriters. E. G. Moshier and E. G. Hoysak. 2,662,629, Dec. 15.
Paintbrush attachment. R. W. Perkins. 2,662,240, Dec. 15.
Pallet. S. D. Lapham. 2,662,710–11, Dec. 15.
Parking attachment for automobiles. E. C. Henderson. 2,662,604, Dec. 15.
Partition for wire receptacles, Pivoted. S. N. Goldman. 2,662,661, Dec. 15.
Pattern grading tool. J. J. Goodman. 2,662,299, Dec. 15.
Pavement providing for plant growth. R. S. Rice. 2,662,343, Dec. 15.
Pencil sharpener. O. Schneider. 2,662,504, Dec. 15.
Pentamethylbenzene disproportionation. A. P. Lien and D. A. McCaulay. 2,662,926, Dec. 15.
Permeability test container. M. D. Brazier. 2,662,395, Dec. 15.
Phenylpropylamines, Substituted. A. W. Ruddy and T. J. Becker. 2,662,886, Dec. 15.
Photochemical preparation of 17,20-hydroxy-ketones of the pregnane series. K. Miescher and J. Schmidlin. 2,662,854, Dec. 15.
Photographic objective with anastigmatic flattened field, Modified Gauss-type high-speed. A. W. Tronnier. 2,662,447, Dec. 15.
Photographic teleobjective having a composite positive front part axially spaced from a composite negative rear part. A. W. Tronnier. 2,662,446, Dec. 15.
Photographic transfer processes and compositions for the practice of said processes. E. H. Land. 2,662,822, Dec. 15.
Picture viewing device, Collapsible. J. P. Gowland. 2,662,442, Dec. 15.
Pile fabric. R. J. Jackaon. 2,662,560, Dec. 15.
Pile fabric. E. D. Lacey. 2,662,227, Dec. 15.
Pile fabric. E. P. Mersereau, Jr., and J. C. Wetherill. 2,662,558, Dec. 15.
Pile fabric. P. Miller. 2,662,559, Dec. 15.

Pilot, Automatic. J. W. Anderson and R. R. Chapman. 2,662,705, Dec. 15.
Pilot, Automatic. W. L. Huntington. 2,662,704, Dec. 15.
Pipe: *See*—
Metal plated smoking pipe. Smoking pipe.
Pipe and making the same. P. R. Hirsh. 2,662,555, Dec. 15.
Piston for internal-combustion engines having acoustic detonation suppressing means. A. G. Bodine, Jr. 1,662,516–17, Dec. 15.
Piston ring. W. S. Baker. 2,662,801, Dec. 15.
Pitcher's rubber. P. S. Madsen. 2,662,768–9, Dec. 15.
Plastic condensable synthetic rubbers and subsequent elasto-condensation thereof, Preparation of. H. P. Brown. 2,662,874, Dec. 15.
Plastic, rubber or like article with integral fastening means. J. Loewengart. 2,662,308, Dec. 15.
Platform for portable drilling masts. J. Moon. 2,662,797, Dec. 15.
Platform for windrowers, Adjustably mounted. D. L. Beasley. 2,662,362, Dec. 15.
Platinum and palladium catalysts. E. W. Riblett, W. P. Burton, and P. A. Lefrancois. 2,662,861, Dec. 15.
Plug: *See*—
Key slot plug. Well cementing plug.
Plug and socket coupling, Electric. E. Diesal. 2,663,007, Dec. 15.
Plug and valve device, Well casing cementing. R. C. Baker. 2,662,599, Dec. 15.
Pointer clamp for indicating instruments, Electric. A. A. Obermaier. 2,663,005, Dec. 15.
Polishing glass, Process and apparatus for. E. J. G. Laverdisse. 2,662,350, Dec. 15.
Polychlorinated derivatives of phenol, Preparation of. D. C. Spaulding. 2,662,918, Dec. 15.
Polyesters made from dibasic acids derived from vanillin. L. H. Bock. 2,662,871, Dec. 15.
Polymerization control of vinyl acetate utilizing hydrogen peroxide. H. W. Bryant. 2,662,878, Dec. 15.
Portable food container. G. C. Becker. 2,662,965, Dec. 15.
Position indicating system. J. E. Godeck. 2,663,014, Dec. 15.
Post hole digger, Tractor mounted adjustable. W. A. Abrams. 2,662,736, Dec. 15.
Post puller. H. D. Fountain. 2,662,729, Dec. 15.
Potentiometer, Adjustable. F. G. Landis. 2,663,003, Dec. 15.
Power boost control device. A. B. Miller. 2,662,377, Dec. 15.
Power line lift pole. W. B. Crawford. 2,662,730, Dec. 15.
Power-operated rotary impact wrench. H. H. Burkhardt. 2,662,434, Dec. 15.
Power output limiting control system for audiometers, Automatic. F. E. Barron. 2,662,940, Dec. 15.
Power unit, Portable. J. M. Miller. 2,662,412, Dec. 15.
Precision balance. F. Meinig. 2,662,762, Dec. 15.
Predetermined torque release socket wrench. O. B. Harmes. 2,662,436, Dec. 15.
Predetermined torque release wrench. O. B. Harmes. 2,662,435, Dec. 15.
Preparing metal surfaces for drawing operations. H. A. Montgomery and W. J. Wojtowicz. 2,662,836, Dec. 15.
Preservation and storage of biological materials. H. O. McMahon. 2,662,520, Dec. 15.
Press: *See*—
Continuous gluing press. Intaglio engraving press.
Pressing form for garment sleeves. Y. Amber. 2,662,672, Dec. 15.
Pressure-boosting apparatus for vehicle hydraulic brake systems. O. E. Troyer. 2,662,618, Dec. 15.
Pressure reducing valve. H. J. Stacey. 2,662,543, Dec. 15.
Priming means for centrifugal pumps. A. L. Grisé. 2,662,481, Dec. 15.
Products having physostigmine-like action. E. H. Sakal. 2,662,890, Dec. 15.
Projection television tube. J. R. Beers. 2,663,012, Dec. 15.
Projector, Disk or ring. A. Luthi. 2,662,518, Dec. 15.
Protector for milk shake mixers. O. D. Sharp. 2,662,754, Dec. 15.
Providing a continuous supply of heat sterilized water, Method and apparatus for. P. J. Gaylor. 2,662,508, Dec. 15.
Puller: *See*—
Hanger shell puller. Post puller.
Pulley, V belt. V. Simonsen and P. Nielsen. 2,662,416, Dec. 15.
Pump: *See*—
Ball piston pump. Internal-combustion pump.
Foot operated hydraulic pump. Rotary vane pump.
Well pump.
Pump and compressor, Diaphragm. F. E. Surre. 2,662,478, Dec. 15.
Pump and motor hydraulic transmission, Rotary. K. I. Postel and J. P. Horvath. 2,662,375, Dec. 15.
Pump and motor hydraulic transmission, Rotary. E. W. Woydt. 2,662,374, Dec. 15.
Pump for feeding molten metal. A. L. Gagne. 2,662,256, Dec. 15.
Pump or motor, Hydraulic. R. L. Eller. 2,662,484, Dec. 15.
Pump or motor, Turbine. C. O. Weisenbach and J. J. O'Blenis. 2,662,479, Dec. 15.
Purification of water-soluble reaction products of a rosin and an alkylene oxide. J. B. Batdorf. 2,662,881, Dec. 15.
Purifying phthalic anhydride. M. E. Balley. 2,662,901, Dec. 15.
Radiation-absorption type liquid level indicator. J. A. Good. 2,662,985, Dec. 15.
Radiator provided with damper, Baseboard. R. N. Trane and O. A. Labus. 2,662,747, Dec. 15.
Radio impulse system for oscillograph calibration. L. A. De Rosa. 2,662,977, Dec. 15.
Radio receiver, Combination. B. A. Schwarz. 2,662,975, Dec. 15.
Railway car with operator's cab, Self-propelled. J. F. Clary. 2,662,488, Dec. 15.
Rake, Tractor mounted buck. C. W. Neilsen. 2,662,359, Dec. 15.
Rapid connect and disconnect fastening means. C. F. Marschner. 2,662,260, Dec. 15.
Razor, Safety. M. J. Cerino. 2,662,281, Dec. 15.
Razor, Safety. J. T. Scully. 2,662,282, Dec. 15.
Reaction products of polyepoxides with styrene-acrylic acid-vinyl pyridine copolymers. O. C. W. Allenby. 2,662,870, Dec. 15.
Reading-rate device. E. A. Simpson. 2,662,307, Dec. 15.
Reading-training device. A. J. McMaster. 2,662,306, Dec. 15.
Rear-end construction of self-supporting automobile bodies. A. R. Lindsay. 2,662,793, Dec. 15.
Receipting and depositing machine. S. McConaha, Jr., J. S. Bills, and E. J. McConaha. 2,662,472, Dec. 15.
Receptacle closure. M. B. Beaubaire and M. E. Strand. 2,662,656, Dec. 15.
Record changer for various record sizes, Automatic. D. T. Dobrogowski, R. M. Roen, and R. H. Jones. 2,662,772, Dec. 15.
Record keeping machine and card units. J. L. Herzog. 2,662,528, Dec. 15.
Recording disk clamping device. U. O. Hutton. 2,662,804, Dec. 15.
Recording method and apparatus. R. S. Schwartz. 2,662,803, Dec. 15.
Recovering lithium compounds from lithium minerals. A. V. Kroll. 2,662,809, Dec. 15.
Recreation table. W. D. Coe. 2,662,583, Dec. 15.
Reel: *See*—
Double cone reel. Fishing reel.
Reel apparatus for forming coils of cable. O. R. Weber. 2,662,701, Dec. 15.
Reel arbor lock. C. O. Bruestle. 2,662,702, Dec. 15.
Reference-junction compensator for thermocouple pyrometers. A. J. Wohlgemuth. 2,662,406, Dec. 15.
Refractory. H. O. Kauffmann and J. F. Whalen, Jr. 2,662,825, Dec. 15.
Refrigerator breaker strip assembly. G. C. Harbison. 2,662,254, Dec. 15.
Regeneration of spent pickle liquor and recovery of ferrous sulfate monohydrate. J. A. Shaw. 2,662,812, Dec. 15.
Regenerator apparatus for fluidizable solid materials. J. W. Packie. 2,662,813, Dec. 15.
Register, Cash. J. Nobisch. 2,662,688, Dec. 15.
Register system for receiving several codes. H. L. Lesigne. 2,662,935, Dec. 15.
Regulation of steam boilers, Process and apparatus for the. J. Loumiet et Lavigne. 2,662,507, Dec. 15.
Regulator: *See*—
Automatic mechanical Fluid pressure regulator.
clearance regulator.
Removal of magnetite from asbestos. I. J. Novak. 2,662,639, Dec. 15.
Reversible solvent-soluble derivatives of phthalocyanine compounds. C. J. Pedersen. 2,662,897, Dec. 15.
Reversible solvent-soluble derivatives of phthalocyanine pigments. C. J. Pedersen. 2,662,895–6, Dec. 15.
Ring: *See*—
Piston ring.
River weight for pipe lines. E. A. Rowe and R. M. Zschau. 2,662,552, Dec. 15.
Riveter, Automatic squeeze. E. H. Souter. 2,662,429, Dec. 15.
Rocker attachment unit for chairs. L. Gottfried. 2,662,580–1, Dec. 15.
Rod: *See*—
Adjustable tie rod. Casting rod.
Rotary electrical switch. D. W. Snow. 2,662,954, Dec. 15.
Rotary vane pump. F. E. Smith and J. F. Murray. 2,662,483, Dec. 15.
Rotating bed adsorber. E. L. Moragne. 2,662,607, Dec. 15.
Rotor for fluid machines. J. Blanc. 2,662,685, Dec. 15.
Rubber compositions with oxidized microcrystalline wax. G. G. Rumberger. 2,662,864, Dec. 15.
Safety means for leaving doors ajar. C. P. Kessler. 2,662,571, Dec. 15.
Sampling and handling of mineral specimens. F. H. Bailly. 2,662,401, Dec. 15.
Sand agitator for well pumps. B. R. Hilliger. 2,662,486, Dec. 15.
Sanitary pad. W. G. Jacks. 2,662,527, Dec. 15.
Saw attachment for electric hand drills. C. G. Lindell. 2,662,562, Dec. 15.
Saw attachment for tractors, Timber-moving. G. D. Duncan, Jr. 2,662,561, Dec. 15.
Saw segments, Manufacture of. G. Smal. 2,662,427, Dec. 15.

Saw tooth shaper with wear faces. E. R. Ferrari. 2,662,426, Dec. 15.
Scaffold erecting ladder jack. J. P. Lowrey. 2,662,716, Dec. 15.
Scaffold, Swing stage. R. Allenbaugh. 2,662,734, Dec. 15.
Scoop adjustment for carry-type scrapers. H. D. Kadz. 2,662,312, Dec. 15.
Screw dewatering classifier. W. P. Wilson. 2,662,642, Dec. 15.
Screw driver, Multiple blade. R. P. Lavietes. 2,662,568, Dec. 15.
Seal. R. Cliborn. 2,662,480, Dec. 15.
Seal. H. F. Stoffel. 2,662,789, Dec. 15.
Seal for coffee makers. W. R. Weeks. 2,662,464, Dec. 15.
Seat for store service carriers, Child. S. N. Goldman. 2,662,775, Dec. 15.
Seat with adjustable back rest. G. J. Ozenne. 2,662,585, Dec. 15.
Securing of a member to a support by means of a spring. J. Wijchman. 2,662,765, Dec. 15.
Selective backup control means for tractor-trailer undercarriage. J. W. Hopson. 2,662,781, Dec. 15.
Self-adjusting wheel brake. R. A. P. Mougin. 2,662,617, Dec. 15.
Self-cleaning butterfly gate. H. Kelley. 2,662,545, Dec. 15.
Self-leveling dispenser. W. J. Gibbs. 2,662,802, Dec. 15.
Separating and classifying substantially spherical bodies into different size groups, Method and apparatus for. C. W. Clark and B. H. Morrison. 2,662,641, Dec. 15.
Separation of geometrical isomers by urea complex formation. R. A. Foster and C. G. Laspe. 2,662,879, Dec. 15.
Separation of salts of organic acids. V. R. Kokatnur. 2,662,880, Dec. 15.
Separator for cold milk products and the like, Centrifugal. H. M. Spross. 2,662,687, Dec. 15.
Settling of fluorescent screens. A. J. H. Darlaston. 2,662,830, Dec. 15.
17α-Hydroxy steroids, Preparation of. P. L. Julian, E. W. Meyer, and I. Ryden. 2,662,904, Dec. 15.
Severing or severing and conveying lengths of wire or similar stock, Means for. A. G. Ballard, W. C. Dent, D. G. Broscomb, and A. B. Watt. 2,662,597, Dec. 15.
Sewing machine, Shoe. F. C. Eastman. 2,662,492, Dec. 15.
Sewing machine, Shoe inseam. J. P. Carter. 2,662,493, Dec. 15.
Shaking device for layer and loose materials. W. Degen. 2,662,750, Dec. 15.
Shale oil refining. R. C. Castner and R. C. Archibald. 2,662,843, Dec. 15.
Shears with lateral handle action, Grass. L. I. Yeomans. 2,662,286, Dec. 15.
Shears with vertical handle action, Grass. L. I. Yeomans. 2,662,285, Dec. 15.
Sheet. H. B. Cheesman. 2,662,233, Dec. 15.
Sheet construction, Bed. B. Citron. 2,662,234, Dec. 15.
Sheet metal separating device. R. J. Van Schie. 2,662,648, Dec. 15.
Shelf, Foldable. V. E. Pilon. 2,662,645, Dec. 15.
Shelter, Transportable. F. R. Daly. 2,662,232, Dec. 15.
Shingle. H. Abraham. 2,662,491, Dec. 15.
Shingle, Reversible. R. Patterson. 2,662,490, Dec. 15.
Shipping package. W. Gill and S. S. Nicholson. 2,662,649, Dec. 15.
Shirring attachment for sewing machines. C. and E. L. Seaman. 2,662,494, Dec. 15.
Shock absorber for vehicles, Hydraulic. W. Armstrong. 2,662,615, Dec. 15.
Shock tester, Sine wave. D. E. Sullivan. 2,662,392, Dec. 15.
Shore protection. H. A. Schmitt and W. H. Lange. 2,662,378, Dec. 15.
Shutter and diaphragm mechanism for cameras, Combined. M. N. Fairbank. 2,662,457, Dec. 15.
Signaling system, Coded track circuit. J. Y. Howard. 2,662,971, Dec. 15.
Signaling system, Electric pulse. L. I. Farren, N. E. Head, and M. M. Levy. 2,662,979, Dec. 15.
Simultaneous drumming and vacuum treating of skins. C. F. Rutherford, S. C. Tease, and H. L. Troxell, Jr. 2,662,805, Dec. 15.
Single reed cell block. C. De Gasero. 2,662,440, Dec. 15.
Skid device for unloading trucks. J. Hendrix. 2,662,613, Dec. 15.
Sled for ditchers, Stabilizing. E. V. Briscoe. 2,662,614, Dec. 15.
Sleeve expander and/or former. Y. Amber. 2,662,673, Dec. 15.
Slug feed device. P. Ingram. 2,662,760, Dec. 15.
Small boat restrainer. J. H. Bascome, Jr. 2,662,501, Dec. 15.
Smoking pipe. R. G. Lockard. 2,662,530, Dec. 15.
Solder flux life extender. W. C. Shilling and G. W. Wright. 2,662,840, Dec. 15.
Soot blower of the short-travel retracting type. L. S. De Mart. 2,662,241, Dec. 15.
Soup canning. H. F. Snow. 2,662,823, Dec. 15.
Space measuring means. W. C. Pickard. 2,662,292, Dec. 15.
Spacing device, Line. J. Toggenburger. 2,662,628, Dec. 15.
Speed change gearing. A. Mascherpa. 2,662,417, Dec. 15.
Speed reducer. H. S. McGowan. 2,662,422, Dec. 15.
Spring motor assemblage for clockwork mechanisms. M. Van Valkenburgh. 2,662,612, Dec. 15.
Spring structure, Cushion. W. A. Clark. 2,662,588, Dec. 15.
Stabilization of borax supersaturation in solutions. D. S. Taylor and G. A. Connell. 2,662,810, Dec. 15.
Stabilization of glyceride oils with carboxymethyl mercaptosuccinic acid. A. W. Schwab, P. M. Cooney, and C. D. Evans. 2,662,905, Dec. 15.
Stabilizer for spring-supported bodies. A. G. Talbert. 2,662,780, Dec. 15.
Stabilizing aqueous dispersions of haloethylene polymers. J. B. Hoertz. 2,662,867, Dec. 15.
Stabilizing hypochlorite solutions. R. C. Brandon. 2,662,858, Dec. 15.
Stand for parts containers, Rotary. H. B. Alexander. 2,662,644, Dec. 15.
Staple remover. J. A. Yerkes. 2,662,727, Dec. 15.
Starting unit, more particularly for internal-combustion engines, and operating same. A. L. Vintenon. 2,662,986, Dec. 15.
Steam generator. C. H. Carley. 2,662,506, Dec. 15.
Steam iron. A. A. Johnson. 2,662,316, Dec. 15.
Stencilling machine. R. G. Fordyce. 2,662,470, Dec. 15.
Stepladder. L. E. Bronson. 2,662,680, Dec. 15.
Stop motion device for sliver processing machines. W. J. Scott. 2,662,251, Dec. 15.
Stopper construction for sink strainers and the like. P. K. Borman. 2,662,230, Dec. 15.
Storage battery electrode. J. B. Brennan. 2,662,928, Dec. 15.
Storage device for liquefied gases and the vapors thereof. O. Reich. 2,662,379, Dec. 15.
Strand traverse mechanism. H. W. Ballard. 2,662,695, Dec. 15.
Sugar cane wax, Making refined. A. C. Henn and H. W. Peterson, Jr. 2,662,907, Dec. 15.
Support: *See*—
Cathode-ray tube support. Tiltable support.
Support attachments for beds. W. E. McKnight. 2,662,715, Dec. 15.
Support for electrically heated tools. R. H. Green. 2,662,962, Dec. 15.
Support for headlight tester, Wheeled. A. R. Squyer and P. F. Dirksen. 2,662,779, Dec. 15.
Surface dressing machine. A. Iobbi. 2,662,351, Dec. 15.
Sweepstick. L. R. Helm. 2,662,557, Dec. 15.
Switch: *See*—
Electric switch. Rotary electrical switch.
Fluid pressure sensitive switch. Time delayed ground probe switch.
Indicating switch. Time switch.
Mechanically driven selector switch.
Switch assembly, Variable limit. G. W. Rusler, Jr., and R. C. Burggren. 2,663,001, Dec. 15.
Switch mechanism. W. Fisher. 2,662,941, Dec. 15.
Switching device, Dual voltage. H. L. Keith. 2,663,000, Dec. 15.
Switching system. J. H. Brundage. 2,663,010, Dec. 15.
Synthetic resins from dicyanodiamide, Preparation of. F. Kaess and E. Doehlemann. 2,662,868, Dec. 15.
Syringe for the application of nascent oxygen, especially for dental purposes. M. Badan. 2,662,523, Dec. 15.
System responsive to liquid levels. C. G. Sontheimer. 2,662,404, Dec. 15.
Table: *See*—
Electric table. Recreation table.
Ironing table.
Table and cabinet, Combined portable. C. A. Thatcher. 2,662,989, Dec. 15.
Table for constructing building frames. A. P. Le Vay. 2,662,565, Dec. 15.
Tag. H. F. Stoffel. 2,662,321, Dec. 15.
Tank: *See*—
Outboard motor test tank.
Tank construction. M. Cervino and F. Sollinger. 2,662,538, Dec. 15.
Telegraph system, Multiplex carrier. F. J. Singer. 2,662,933, Dec. 15.
Telescoping bored-plug subcirculation valve. R. C. Pryor. 2,662,548, Dec. 15.
Temperature control in the catalytic hydrogenation of carbon monoxide. O. Dorschner, W. Wenzel, and H. G. Kayser. 2,662,911, Dec. 15.
Tempered air swept pulverizer and classifier with common fan means to transport unclassified material and pulverized oversize particles to the classifier. O. Lotz. 2,662,694, Dec. 15.
Tension control apparatus. E. W. Larsen and J. R. Marcus. 2,662,697, Dec. 15.
Terminating the polymerization of monomeric materials in aqueous emulsion and a nonstaining, nondiscoloring composition for use therein. G. J. Antlfinger. 2,662,876, Dec. 15.
Terpolymers of acrylonitrile and allyl amines. D. W. Chaney. 2,662,875, Dec. 15.
Tertiary-aminoalkyl 4-alkylamino-2-benzyloxybenzoates and debenzylation thereof. R. O. Clinton and S. C. Laskowski. 2,662,889, Dec. 15.

Tertiary-aminoalkyl 4-amino-2-benzyloxybenzoates and debenzylation thereof. R. O. Clinton and S. C. Laskowski. 2,662,888, Dec. 15.
Textile slasher. J. S. Campbell. 2,662,264, Dec. 15.
Therapeutic cubicle, Air treated and controlled mobile. G. Armstrong and G. Kulcher. 2,662,521, Dec. 15.
Thermal treatment and separation process. W. C. Simpson and W. B. Wilson. 2,662,845, Dec. 15.
Thermometer and manufacture thereof. G. D. Hunt. 2,662,407, Dec. 15.
Thionophosphorus compounds, Production of. W. L. Jensen. 2,662,917, Dec. 15.
Thread-gauging device. C. E. Foster. 2,662,300, Dec. 15.
Thread handling mechanism. M. Pedersen. 2,662,496, Dec. 15.
Thread rolling apparatus. V. H. Fray. 2,662,430, Dec. 15.
3-thienyl thioethers. J. W. Brooks and S. J. Lukaslewicz. 2,662,900, Dec. 15.
Tiltable support. C. J. Schmitt. 2,662,708, Dec. 15.
Time-delay device for high-pressure liquid-fuel-supply pumps, Hydraulic. J. A. Logan and G. D. Robinson. 2,662,477, Dec. 15.
Time delay relay. C. A. Schaefer. 2,662,594, Dec. 15.
Time delayed ground probe switch. J. O. Vann. 2,662,707, Dec. 15.
Time switch. D. Morrison. 2,662,943, Dec. 15.
Time zone indicator system. M. Glenn. 2,662,368, Dec. 15.
Timer construction. K. K. Neumann. 2,662,595, Dec. 15.
Tire warning device, Deflated. T. J. Finan. 2,663,009, Dec. 15.
Tobacco curing stick mounting means. L. E. V. Stickler. 2,662,718, Dec. 15.
Tool: *See*—
Binder-strap joint-forming tool. Hydraulic impact tool.
Diamond dressing tool. Magnetic abrasion tool.
Flaring tool. Pattern grading tool.
Tube flaring tool.
Toothbrush and toothpaste kit. A. J. Alboreo and M. W. Pratt. 2,662,535, Dec. 15.
Toothbrush guard. W. G. Robey. 2,662,238, Dec. 15.
Toothbrush, Rotary. D. P. Grover. 2,662,239, Dec. 15.
Torque compensator. R. G. Ballard and J. E. Lundberg. 2,662,410, Dec. 15.
Toy, Denture simulating. I. H. Fishlove. 2,662,334, Dec. 15.
Toy figure, Sectional. G. H. Calverley. 2,662,335, Dec. 15.
Toy, Marionette. W. B. Baird. 2,662,338, Dec. 15.
Toy or rattle, Infant's marble. A. M. Zalkind. 2,662,336, Dec. 15.
Toy, Sounding whirling disk. H. S. Burkey. 2,662,337, Dec. 15.
Toy steering wheel and gearshift. L. Solomon. 2,662,341, Dec. 15.
Trailer, Self-loading. O. E. Sellers. 2,662,635, Dec. 15.
Transducer, Logarithmic. D. E. Sunstein. 2,662,978, Dec. 15.
Transducer, Rotatron - electrical. O. G. Schwede. 2,662,980, Dec. 15.
Transformer and dynamo steels, Production of. H. Höfges and E. Goebel. 2,662,819, Dec. 15.
Transmission. R. C. Hoffman. 2,662,800, Dec. 15.
Transmission control. G. E. Flinn. 2,662,418, Dec. 15.
Transmission control. C. W. Lincoln and E. A. Schroeder. 2,662,419, Dec. 15.
Transmission control mechanism. R. H. Long. 2,662,621, Dec. 15.
Tray and making same, Serving. J. A. Potchen. 2,662,382, Dec. 15.
Treating apple sections. M. W. Talbert. 2,662,824, Dec. 15.
Treating tall oil. E. P. Glynn and B. F. Hofferth. 2,662,849, Dec. 15.
Trouble light. R. E. Zediker. 2,662,970, Dec. 15.
Trowel for cement floor finishers, Float. M. E. Whiteman. 2,662,454, Dec. 15.
Truck, Wrecking. O. S. and J. S. Hubbard. 2,662,652, Dec. 15.
Tube: *See*—
Projection television tube.
Tube flaring tool. G. E. Franck. 2,662,574, Dec. 15.
Tuning device, Guitar. F. B. Snodgrass. 2,662,439, Dec. 15.
Turbine and combustion chamber, Combined water cooled rotary gas. P. P. Sherry and J. T. Corrigan. 2,662,373, Dec. 15.
Turbine with plural generators selectively operable, Internal-combustion. B. C. Rennie and J. H. Weaving. 2,662,371, Dec. 15.
2,3-dimethyl-heptene-2-one-6, Preparing. W. Kimel. 2,662,920, Dec. 15.

Typographical composing machine. R. H. Scott and A. S. Hayward. 2,662,636, Dec. 15.
Universal joint. E. Wildhaber. 2,662,381, Dec. 15.
Unloading means. L. S. Russell. 2,662,650, Dec. 15.
Vacuum storage unit for ground coffee. R. L. Decker. 2,662,664, Dec. 15.
Valve: *See*—
Air compressor tank drain valve. Multiport valve.
Check valve. Pressure reducing valve.
Fluid flow dual port control valve. Telescoping bored-plug subcirculation valve.
Valve. C. A. Glauque. 2,662,721, Dec. 15.
Valve. G. C. Singer. 2,662,554, Dec. 15.
Valve for controlling fluid flow by variation in electric current. L. C. Meyer. 2,662,550, Dec. 15.
Valve for hose lines. C. L. Nelson. 2,662,546, Dec. 15.
Valve for pressure liquids, Reduction. H. G. A. Akerlind. 2,662,349, Dec. 15.
Valve mechanism for fluid pressure systems, Drain. A. W. Hall. 2,662,544, Dec. 15.
Vehicle loading and unloading apparatus. L. L. Eakin. 2,662,654, Dec. 15.
Venetian blind. J. H. Bierlich. 2,662,592, Dec. 15.
Venetian blind parts. B. Walker. 2,662,593, Dec. 15.
Ventilating apparatus, Modular pressure-displacement type. E. J. Kurek. 2,662,463, Dec. 15.
Vibration isolator device. J. W. Patton. 2,662,720, Dec. 15.
Vulcanized composition formed from sulfur, rubber, and an alkenyl phenol for joining metal, wood, glass, and thermosetting resins. H. S. Bloch. 2,662,869, Dec. 15.
Wallpaper hanging apparatus. T. R. Wynn. 2,662,657–8, Dec. 15.
Washing machine control mechanism. H. E. Morrison, P. E. Geldhof, and L. Ringer. 2,662,384, Dec. 15.
Watch, Electric. F. Koehler. 2,662,366, Dec. 15.
Water color process, Exposition. K. Shreedharan. 2,662,325, Dec. 15.
Water-insoluble salts of dithiocarbamic acid made rapidly water dispersible and compositions thereof. E. A. Fike and H. E. Bruner. 2,662,841, Dec. 15.
Well casing perforator. G. F. Turechek and W. H. Lindsay, Jr. 2,662,474, Dec. 15.
Well cementing. J. B. Clark. 2,662,827, Dec. 15.
Well cementing plug. R. C. and J. R. Baker. 2,662,600, Dec. 15.
Well deepening apparatus. E. E. Jones. 2,662,603, Dec. 15.
Well pump. A. H. Iffrey. 2,662,485, Dec. 15.
Wheel: *See*—
Electrically heated steering wheel. Intermittent impact water wheel.
Fan wheel.
Wheel actuating mechanism, Numeral. C. F. Webb. 2,662,691, Dec. 15.
Wheel and shaft mounting for vehicles. W. H. Newmaster. 2,662,786, Dec. 15.
Wheel assembly, Trailer. R. L. Wilson. 2,662,782, Dec. 15.
Wheel assembly, Turbine. J. R. McVeigh. 2,662,725, Dec. 15.
Wheel balancing device. L. Hunter, Jr. 2,662,396, Dec. 15.
Wheel suspension assembly for boats. R. C. Kester. 2,662,236, Dec. 15.
Wind box for sintering machines. J. M. Heaps and B. Houlden. 2,662,763, Dec. 15.
Winder, Automatic winch rope. H. D. Brown. 2,662,703, Dec. 15.
Window bags, Manufacture of. D. Belcher, R. J. Williams, and M. J. Helmos. 2,662,578, Dec. 15.
Window opening and closing mechanism. L. O. Burress. 2,662,766, Dec. 15.
Window sash structure, Removable double hung. O. R. Serley and R. N. Mortensen. 2,662,255, Dec. 15.
Windowed cell, High-pressure. M. J. Rzasa. 2,662,393, Dec. 15.
Workbench for power tools, Folding. L. F. Kurschner. 2,662,566, Dec. 15.
Wrapping machine, Fruit. T. M. Vaughan. 2,662,354, Dec. 15.
Wrench: *See*—
Balance wrench. Predetermined torque release socket wrench.
Power-operated rotary impact wrench.
Predetermined torque release wrench.
Yarn tensioning means for twisters. C. B. Kingsbury. 2,662,364, Dec. 15.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 15, 1953

NOTE.—First number = class, second number = subclass, third number = patent number.

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2,662,745
2,662,746
133: 2,662,747
137: 2,662,748
246: 2,662,749
259— 1: 2,662,750
4: 2,662,751
57: 2,662,752
85: 2,662,753
125: 2,662,754
161: 2,662,755
260— 17: Re.23,753
22: 2,662,862
27: 2,662,863
28.5: 2,662,864
29.3: 2,662,865
29.6: 2,662,866
2,662,867
45.2: 2,662,868
45.5: 2,662,869
2,662,870
47: 2,662,871
67.6: 2,662,872
2,662,873
260— 79.5: 2,662,874
80.5: 2,662,875
82.7: 2,662,876
85.5: 2,662,877
89.1: 2,662,878
96.5: 2,662,879
97.6: 2,662,880
100: 2,662,881
209.5: 2,662,882
211.5: 2,662,883
232: 2,662,884
247.5: 2,662,885
293: 2,662,886
293.4: 2,662,887
294.3: 2,662,888
2,662,889
295: 2,662,890
296: 2,662,891
310: 2,662,894
314.5: 2,662,895
2,662,896
2,662,897
326.5: 2,662,898
327: 2,662,899
329: 2,662,900
340.3: 2,662,892
345.2: 2,662,893
346.7: 2,662,901
380: 2,662,902
397.4: 2,662,903
397.5: 2,662,904
398.5: 2,662,905
404: 2,662,906
412.5: 2,662,907
413: 2,662,908
448.2: 2,662,909
2,662,910
449: 2,662,911
449.6 2,662,912
507: 2,662,913
514: 2,662,914
2,662,915
541: 2,662,916
543: 2,662,917
586: 2,662,918
593: 2,662,919
260— 595: 2,662,920
601: 2,662,921
617: 2,662,922
621: 2,662,923
648: 2,662,924
668: 2,662,925
671: 2,662,926
797: 2,662,927
261— 23: 2,662,756
39: 2,662,757
69: 2,662,758
83: 2,662,759
263— 6: 2,662,760
15: 2,662,761
265— 54: 2,662,762
266— 21: 2,662,763
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267— 1: 2,662,765
268— 108: 2,662,766
271— 2.6: 2,662,767
273— 25: 2,662,768
2,662,769
43: 2,662,770
65: 2,662,771
274— 1: 2,662,772
279— 30: 2,662,773
59: 2,662,774
280—33.99: 2,662,775
34: 2,662,776
47.24: 2,662,777
47.33: 2,662,778
79: 2,662,779
104.5: 2,662,780
423: 2,662,781
426: 2,662,782
461: 2,662,783
284— 16: 2,662,784
285— 9: 2,662,785
287— 20: 2,662,786
290— 4: 2,662,966
292—251.5: 2,662,787
256.6: 2,662,788
322: 2,662,789
332: 2,662,790
294— 91: 2,662,791
103: 2,662,792
296— 28: 2,662,793
2,662,794
299— 46: 2,662,795
302— 53: 2,662,796
304— 14: 2,662,797
40: 2,662,798
308— 136: 2,662,799
207: 2,662,800
309— 46: 2,662,801
310— 34: 2,662,987
91: 2,662,988
312— 71: 2,662,802
255: 2,662,989
313— 240: 2,662,990
314— 20: 2,662,991
63: 2,662,992
315— 341: 2,662,993
317— 113: 2,662,994
172: 2,662,996
230: 2,662,995
239: 2,662,997
318— 33: 2,662,998
327: 2,662,999
440: 2,663,000
489: 2,663,001
323— 23: 2,663,002
74: 2,663,003
324— 1: 2,663,004
155: 2,663,005
333— 30: 2,663,006
339— 49: 2,663,007
340— 27: 2,663,008
58: 2,663,009
253: 2,663,010
367: 2,663,011
370: 2,663,012
395: 2,663,013
343— 11: 2,663,014
13: 2,663,015
101: 2,663,016
108: 2,663,017
346— 1: 2,662,803
137: 2,662,804

CLASSIFICATION OF DESIGNS

D 1—13: Des. 171,111
D 3— 4: Des. 171,085
Des. 171,086
D 7— 7: Des. 171,087
D17— 1: Des. 171,099
3: Des. 171,091
Des. 171,086
D25— 1: Des. 171,084
D26—14: Des. 171,105
D33— 3: Des. 171,075
14: Des. 171,103
D34— 4: Des. 171,080
Des. 171,081
5: Des. 171,113
D40— 1: Des. 171,079
D42— 7: Des. 171,078
D44—10: Des. 171,104
D44—26: Des. 171,074
D45—16: Des. 171,082
Des. 171,083
19: Des. 171,077
D47— 7: Des. 171,095
Des. 171,115
D54—12: Des. 171,076
D56— 2: Des. 171,096
D56— 9: Des. 171,097
D57— 1: Des. 171,107
Des. 171,108
Des. 171,109
Des. 171,112
D58— 2: Des. 171,114
6: Des. 171,089
26: Des. 171,098
D59— 2: Des. 171,088
D64—11: Des. 171,106
D74— 1: Des. 171,090
Des. 171,094
Des. 171,110
17: Des. 171,093
D85— 2: Des. 171,101
7: Des. 171,102
D86— 8: Des. 171,073
D87— 3: Des. 171,072
Des. 171,092
Des. 171,100

U. S. GOVERNMENT PRINTING OFFICE: 0—1953

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,634,981. **Race Horse Game.** Patented Apr. 14, 1953. Race horse game, in which the racing pieces are mechanically advanced in an unpredictable manner, has a box-like frame with guideways forming a race course to receive racing pieces simulating race horses with jockeys. The bottom edge of each racing piece is serrated to extend in slots of the guideways. Longitudinally spaced rotatable members between the side panels have spaced cam segments, arranged in staggered relation to each other, to mesh with the rack teeth of a racing piece and advance the racing piece along its guideway into position for further movement by the next member. Pulley and transmission elements are attached to the members and to a pair of operating rollers at one end of the device. The racing pieces are lined up against a starting strip and each player selects a horse to win. The race is started and run by manually rotating one of the rollers. (Owner) Orlin H. Carpenter, 335 Beechwood Drive, Akron 20, Ohio. Group 39—41. Reg. No. 52,224.

Pat. 2,643,573. **Masonry Anchor Bolt.** Patented June 30, 1953. Anchor bolt has a locking washer for holding elements to masonry walls, floor, and the like. A shank of reduced diameter, having a conical shaped end, extends from the lower end of the bolt and is provided with threads, a split spring washer having overlapping ends, and a locking nut. The washer is retained in contracted position on the lower end of the bolt by the nut as the bolt is inserted in an opening. When the bolt reaches the final position in which the washer is in registry with a counterbore in the opening, the washer expands and the bolt is locked in the opening. (Owner) Chester F. Johnson, 5328 7th Ave., Los Angeles 43, Calif. Group 33—12—91. Reg. No. 52,225.

Pat. 2,639,798. **Typewriter Page Bottom Margin Indicator.** Patented May 26, 1953. Gage positioned on the end of a typewriter carriage automatically operates to provide a warning when the typewritten material reaches a predetermined distance from the end of a page. A stub shaft mounted in a plate at the end of the carriage carries a gear wheel rotatably mounted to mesh with a pinion mounted on the platen shaft and rotate the mechanism in a counterclockwise direction as the typing advances. An inner wheel also journaled on the stub shaft carries a pivotally mounted trigger which is tripped by pin stops to ring a bell. The pins may be set by a knob for letter or legal size sheets of paper. Spring-actuated means are operable by the tripping of the trigger to release the parts for a return movement. The parts are small and do not interfere with the operator's manipulation of the platen. (Owner) Luis Carlos Jiménes, Apartado 1585, Panama, Republic of Panama. Group 35—72. Reg. No. 52,226.

Pat. 2,230,693. **Relay Circuit for Machine Control.** Patented Feb. 4, 1941. Extremely sensitive relay circuit for movement control in punch presses and in metal-cutting and can-making machines. A thermionic or electron tube acts as a sensitive relay by applying a negative bias to the controlling grid so that normally no plate current will flow. When a work sheet is placed in precise position in the machine to touch all of several stationary electric contacts forming resistance controlled legs from the tube grid circuit and grounding them simultaneously through the machine frame, it "bleeds" off the negative bias from the grid so that the tube will "fire" and the operating current will at once pass through the plate circuit and operate the machine. The moment the work sheet is moved from the exact position, the grid bias is reestablished for the next sheet. The machine operates on a low voltage and current flow, and the rectifying action of the tube yields a pulsating direct current in the circuit for better operation of magnets and solenoids. (Owner) John W. Mills, 507 30th Ave., San Mateo, Calif. Groups 35—42; 36—11. Reg. No. 52,227.

Pat. 2,626,489. **Sanding Block Construction.** Patented Jan. 27, 1953. Rectangular block having several sheets of sandpaper fastened over each sanding surface for easy removal may be discarded after the last sheet has been used. At each end of the block a notch is cut out so that a lip protrudes across the entire width of the end, or the block may be formed of two sections offset, forming diagonally opposite lips. At one end of the block the extremities of the sheets of sandpaper are folded over the cut out edge and fastened to the inside vertical wall and to one another by strips of adhesive. At the other end, the sheets are folded over the protruding lip and fastened to the outside vertical wall and to one another by adhesive strips spaced from the extremities of the sheets for ready removal of the sheets. Several other sheets are similarly secured to the opposite side of the block. (Owner) Richard G. Thompson, 823 South 5th St., Stillwater, Minn. Groups 25—99; 32—91; 33—52; 40. Reg. No. 52,228.

Pat. 2,644,649. **Fishing Line Drying Reel.** Patented July 7, 1953. A fishing line drying reel adapted to hold a length of fishing line in a series of windings, arranged so as to maintain the coils of each individual winding out of contact perimetrically with the remaining coils of all other windings. This arrangement permits air currents to circulate through the windings as well as to permeate the individual windings to quickly dry the fishing line. The drying reel is four-sided and has extensions with mortises to receive auxiliary winding supports which may be removably attached in order to facilitate winding upon, and unwinding from, the reel a fishing line to be dried. Provision is also afforded for removably securing the initial end of a fishing line, as well as the terminus of the line, after winding is completed. The drying reel is so compact as to permit it to be carried in the pocket, a fishing tackle box, or kit, and may be economically manufactured. (Owner) Edward S. Gniadecki, 6540 South Oakley St., Chicago, Ill. Group 39—49. Reg. No. 52,229.

Pat. 2,485,052. **Toolholder.** Patented Oct. 18, 1949. Toolholder, to be used in lathes for turning, boring, and thread chasing operations, features means for clamping a tool bit so solidly that it is substantially integral with the holder. The clamping means include a longitudinal channel in true alignment parallel with the holder axis for long or short tool bits. The forward end of the holder head is bifurcated by a kerf or slot above and below the channel, and the parts thereof drawn into gripping engagement with the bit by a cap screw. One or more supplemental set screws are provided for engaging the bit in the channel. An additional channel diverges downwardly from the front end of the longitudinal channel so that a bit held selectively in either channel may be clamped by the same cap screw. A wedge block positioned in either channel is maintained in engagement with the bit in the other channel by means of laterally movable stops. For thread chasing operations in spring toolholders, clamping means are provided in a swivelly mounted head. (Owner) William C. Keebler, 126 C St., N. E., Washington, D. C. Group 35—41—43—53. Reg. No. 52,230.

Pat. 2,232,309. **Necktie Holder.** Patented Feb. 18, 1941. Spring clip for holding a necktie firmly in place is formed of a single blank of wire having a loop to slip on a shirt collar button. Downwardly extending ends are bent upon themselves to provide parallel pointed pins for penetrating the knot and slide portion of a necktie. Disk stops are spaced from the ends of the pins to limit their entrance. With the fastener and the tie in position, a slight downward pressure on the knot causes the pins to penetrate and hold the tie. In use, the fastener is completely concealed. (Owner) Reginald P. Borst, 1751 Q St., N. W., Washington, D. C. Groups 39—99; 40. Reg. No. 52,231.

Pat. 2,572,103. Collar Clasp. Patented Oct. 23, 1951. Collar clasp can be easily applied with one hand, leaving the other hand free to hold the collar and tie in correct position. A rear bar of yielding spring material has its end portions bent to cooperate with the ends of a front rigid bar and form gripping jaws to frictionally grip the wings of a shirt collar. Intermediate the ends, two spaced-apart headed pin members provide a pin and slot connection between the bars. Pressure exerted by wearer's finger on the yielding bar between the two pins will urge the end portions apart to be slipped over the collar wings. Modification shown. (Owner) Reginald P. Borst, 1751 Q St., N. W., Washington, D. C. Groups 39—99; 40. Reg. No. 52,232.

Pat. 2,173,800. Violin Peg. Patented Sept. 19, 1939. A shank, formed of metal bent to provide a loop and diverging resilient shank portions pointed at the ends, has the loop and part of the resilient portions embedded in the head and a tapered shank of a violin peg. A tubular foot piece with a tapered guide surface at one end is inserted in an opening in one side of a violin head so that, when the tapered shank of the peg is inserted in an aligned opening in the other side, the resilient shank portions are received in the foot piece. The peg is pulled out sufficiently to permit insertion of a violin string between the resilient shank portions. As the peg is then pushed inwardly, the string is clamped between the resilient shank portions for quick tensioning and tuning. (Owners) Raymond Coates and Joseph G. Dubois, 3403 Prescott Road, Baton Rouge, La. Group 39—39. Reg. No. 52,233.

Pat. 2,643,124. Fillable Backboard for Punching Bags. Patented June 23, 1953. Backboard for supporting a suspended punching bag has a dish-shape housing with a bag-impact surface and an upwardly directed rim and cover forming an enclosure which can be filled with water, sand, or other heavy filling material. The filling material will greatly increase the weight of the backboard so that it will adequately absorb shock and vibration caused by repeated and rhythmic striking of the bag by a prizefighter or other person. Spaced flexible tension members attached to the housing are adjustably connected to pulleys to be attached to an overhead support. A striking bag is secured to a supporting hook at the center of the housing. (Owner) Raphael J. Malone. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Group 39—49. Reg. No. 52,234.

United States Government Owned Patents

The following six patents (granted under Title 35, U. S. Code (1952), Sec. 266) are the property of the United States of America as represented by the Secretary of the Interior, by virtue of assignments from the inventors, Theodore W. Stringfield, Richard F. Stevens, Lyman R. Spaulding, and Warren V. Behrens (Pat. 2,628,267); Kurt B. Bredtschneider and Hanns Schappert (Pat. 2,633,021); Kurt B. Bredtschneider (Pat. 2,633,151); Martin A. Elliott, Ezekail L. Clark, and Henry H. Storch (Pat. 2,634,286); Lyman R. Spaulding (Pat. 2,633,403); and Byron H. Leonard (Pat. 2,639,172). Non-exclusive and royalty-free licenses are available.

Applications for licenses should be directed to the Solicitor, U. S. Department of the Interior, Washington 25, D. C.

Pat. 2,628,267. Electric Line Fault Locators. Patented Feb. 10, 1953. Apparatus for detecting and locating power transmission line faults at the time the faults occur includes an oscilloscope photographic system and is connected to the transmission line at one point only. A surge-pulse arriving at such point directly from a line fault initiates operation of the apparatus to record the time between the arrival at such point of the surge pulse and reflections thereof to provide a record of the occurrence of the fault from which the location can be determined immediately after occurrence of the fault, or at any subsequent time. Group 36—19. Reg. No. 52,235.

Pat. 2,633,021. Liquid Level Indicator. Patented Mar. 31, 1953. Device for indicating the level of liquid in a container is particularly suitable for use in the conversion of coal to hydrocarbons by high pressure hydrogenation. Separate streams of gas from a common source are injected through separate conduits into the container above and below the liquid level therein. Thermocouples in contact with the gas streams beyond separate heat exchangers associated with the conduits are connected to a bridge circuit to indicate the temperature differential between the streams. The temperature differential, which is an indication of the relative velocity ratio of the gas streams, will disturb the balance of the bridge circuit. Whenever the bridge is unbalanced, a bridge-controlled motor-operated inlet valve in one of the conduits is actuated to re-establish the proper velocity ratio of the gas streams and maintain the proper velocity ratio as the liquid level in the container rises and falls so that a gage in a pipe interconnecting the conduits will constantly indicate the true liquid level. Group 35—59—65. Reg. No. 52,236.

Pat. 2,633,151. Pressure Releasing Device. Patented Mar. 31, 1953. Device for releasing erosive fluid from a high pressure zone to a low pressure zone is particularly useful in the conversion of coal to hydrocarbons by high pressure hydrogenation. The device consists of a cylinder containing a piston connected to a flywheel with an inlet valve for admitting fluid from the high pressure zone into the cylinder and an outlet valve for releasing the fluid in decompressed condition into the low pressure zone. During reciprocation of the piston, which is driven by the energy released during decompression of the fluid, the inlet and outlet valves are closed and released at timed intervals. Predetermined forces are exerted against the valves so that they will open only when the pressure differential across the valves is within predetermined permissible limits. When pressure equalization across the valves fails to take place because of some abnormal condition, the valves will fail to open and the device will automatically stop. Group 35—59—65. Reg. No. 52,237.

Pat. 2,634,286. Production of Hydrocarbon Synthesis Gas From Coal. Patented Apr. 7, 1953. This invention resides in the discovery that the low-sulfur content by-product char from the hydrogenation of pulverized coal in the dry fluidized state may be employed for the production of high grade low-sulfur content synthesis gas consisting of a mixture of hydrogen and carbon monoxide, particularly when the char is passed directly from the hydrogenation zone to the gasification zone. By operating the gasification unit directly in conjunction with the coal hydrogenation unit, the char may be continuously withdrawn from the hydrogenation unit under pressure in a dry, finely divided fluent condition and easily passed directly to the gasification unit without any appreciable loss of the heat and pressure energy gained by the char in the hydrogenation zone, thus achieving substantial savings in energy and operational costs. The synthesis gas produced from the char may be advantageously used in the well known Fischer-Tropsch process. Group 28—86. Reg. No. 52,238.

Pat. 2,633,403. Oscilloscope Photographic System. Patented Mar. 31, 1953. Oscilloscope photographic system permits exposure of film to the inactive oscilloscope screen a maximum length of time with a minimum of fogging. The system includes an arrangement of three cones and a cylinder with the oscilloscope axis and the optical axis of the camera making such an obtuse angle that the camera does not have a direct view of the cathode of the oscilloscope through the screen but does have a full view of the screen and a timing indicator. This prevents faint illumination from the cathode from fogging the film when the length of time between successive operations of the system is appreciable. Group 39—12. Reg. No. 52,239.

Pat. 2,639,172. Floating Connection. Patented May 19, 1953. Floating connection between two separately guided reciprocating members, one of which drives the other, such as a crosshead and a plunger of a high pressure pump, is characterized by the fact that the force exerted by the driving member is transmitted to the driven member through a fluid cushi n. The fluid is contained in a chamber carried by the crosshead. A plug on the end of the plunger fits into the open end of the chamber with small clearance between its periphery and the adjacent walls of the chamber. Clearance is also provided between the bottom of the plug and the bottom of the chamber. A flexible bellows-like diaphragm is connected to the plug and to the adjacent walls of the chamber to close the gap therebetween and seal the fluid in the chamber. With this arrangement, the plug is permitted to move relatively to the driving member in all directions in an amount sufficient to automatically compensate for both angularity and offset between the separate guides for the crosshead and plunger. Group 35—61. Reg. No. 52,240.

Patents Removed from Register

The following four patents, listed in the *Register* section of the OFFICIAL GAZETTE, Nov. 7, 1950, by O. W. Storey, trustee for the partnership of O. W. Storey & Associates, have been disposed of and are, therefore, removed from the Register.

Pat. 2,417,015. Electrical Telemetering System. Reg. No. 38,817.

Pat. 2,461,923. Apparatus for Measuring High Resistance. Reg. No. 38,818.

Pat. 2,484,736. Apparatus for Determining Thermal Conductivity. Reg. No. 38,819.

Pat. 2,484,737. Measuring Apparatus. Reg. No. 38,820.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 15, 1953

[VOL. 677. NO. 3]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 628,972. Victor Oolitic Stone Company, Bloomington, Ind. Filed Apr. 30, 1952.

HURO

For Oolitic Limestone, and Building Stone in Unfinished State.

Claims use since Feb. 11, 1952.

Ser. No. 636,057. Beaunit Mills, Inc., New York, N. Y. Filed Oct. 2, 1952.

SUNSPUN

Applicant claims ownership of Registrations Nos. 298,624 and 125,804.

For Synthetic Textile Fibers.

Claims use since May 1932.

Ser. No. 637,391. Nelson Tanning Corporation, San Antonio, Tex. Filed Oct. 30, 1952.

Royal Star

For Sheepskin, Plasticized Furs, and Plasticized Lambskin Shearlings, Sold in the Piece.

Claims use since Apr. 9, 1952.

Ser. No. 637,506. Steele's Pansy Gardens, Portland, Oreg. Filed Nov. 1, 1952. (Sec. 2f.)

Steele's

For Pansy Seeds and Pansy Plants.

Claims use since in the year 1896.

Ser. No. 639,543. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Nov. 28, 1952.

Moltopren

Applicant claims ownership of German Registration No. 511,282, dated May 17, 1939.

For Porous Synthetic Material Prepared on the Basis of Isocyanate and Polyester, and Useful for Insulation and Construction Purposes, as Well as for the Production of Artificial Sponges, Upholstery Stuffings, and the Like.

Ser. No. 642,242. The Philadelphia Seed Company (also known as Philadelphia Seed Company, The Philadelphia Seed Co. Incorporated, The Philadelphia Seed Company, Inc., The Philadelphia Seed Co. Inc., The Philadelphia Seed Co., and Phila. Seed Co.), Philadelphia, Pa. Filed Feb. 13, 1953. (Sec. 2f.)

Old English

Applicant claims ownership of Registration No. 193,885.

For Grass Seed.

Claims use since on or about Oct. 28, 1921.

Ser. No. 643,171. Midcontinent Chemical Company, Grove City, Ohio. Filed Mar. 5, 1953.

CELL-LITE

For Slabs of Material Used in Connection With Making Shoe Soles of Natural or Synthetic Rubber.

Claims use since Jan. 12, 1953.

Ser. No. 643,172. Midcontinent Chemical Company, Grove City, Ohio. Filed Mar. 5, 1953.

THERMOCEL

For Slabs of Material Used in Connection With Making Shoe Soles of Natural or Synthetic Rubber.

Claims use since Feb. 5, 1953.

Ser. No. 643,930. United Mink Producers Association, Janesville, Wis. Filed Mar. 19, 1953. COLLECTIVE MARK.



For Fur Pelts.
Claims use since 1932.

Ser. No. 644,077. Tar Distilling Company, Inc., New York, N. Y. Filed Mar. 23, 1953.

METCARB

For Carbonized Coal Tar.
Claims use since Jan. 26, 1953.

Ser. No. 644,854. Loewengart & Company, New York, N. Y. Filed Apr. 7, 1953.

GAHNA
RANCHO COWHIDE

The word constituent "Cowhide" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 531,237 and 389,256.
For Leather in the Piece.
Claims use since Jan. 30, 1953.

Ser. No. 644,855. Loewengart & Company, New York, N. Y. Filed Apr. 7, 1953.

GAHNA
RANCHO GOAT

The word constituent "Goat" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 531,237, 519,008, and 389,256.
For Leather in the Piece.
Claims use since Jan. 30, 1953.

Ser. No. 644,856. Loewengart & Company, New York, N. Y. Filed Apr. 7, 1953.

RANCHO
CALF

The word constituent "Calf" is disclaimed apart from the mark as shown.
For Leather in the Piece.
Claims use since Mar. 4, 1953.

Ser. No. 645,510. The Philadelphia Seed Company, also known as Philadelphia Seed Company, The Philadelphia Seed Co. Incorporated, The Philadelphia Seed Company, Inc., The Philadelphia Seed Co. Inc., The Philadelphia Seed Co. and Phila. Seed Co., Philadelphia, Pa. Filed Apr. 17, 1953.



Applicant claims ownership of Registrations Nos. 33,875, 46,094, and 101,367.
For Grass Seed, Field and Agricultural Seed—Namely, Corn, Wheat, Oat, Barley, Clover, Timothy, and Alfalfa.
Claims use since on or about Nov. 23, 1934, on the mark as shown; and since on or about Nov. 7, 1899, as to "Imperial."

Ser. No. 645,667. Porter-Walton Company, Salt Lake City, Utah. Filed Apr. 21, 1953.



The words "Porter" and "Walton" and "Gro" are disclaimed apart from the mark shown in the drawing.
For Field Seed.
Claims use since Mar. 10, 1953.

Ser. No. 645,923. Seed Specialists, Inc., Pittsburgh, Pa. Filed Apr. 24, 1953.



The word "Green" is disclaimed apart from the mark as shown.
For Grass Seed.
Claims use since Mar. 27, 1953.

Ser. No. 646,070. James A. Jonas Products, Inc., New York, N. Y. Filed Apr. 28, 1953.



No claim is made to the word "Product" apart from the mark.
For Textile Fibers.
Claims use since Apr. 14, 1953.

Ser. No. 646,124. Garden State Tanning, Inc., Pine Grove, Pa. Filed Apr. 29, 1953.

COACH HIDE

The word "Hide," appearing in the drawing, is disclaimed apart from the trade-mark as shown.
For Tanned and Finished Leather.
Claims use since Apr. 15, 1953.

Ser. No. 647,233. Rubber Fabrics Company, New York, N. Y. Filed May 18, 1953.

Brafoam

For Fabric Backed Foam Rubber Padding Sold by the Yard.
Claims use since Aug. 19, 1952.

Ser. No. 648,169. The Griess-Pfleger Tanning Co., Waukegan, Ill. Filed June 3, 1953.

PLITAN

For Side Upper Leather.
Claims use since Dec. 16, 1952.

Ser. No. 648,228. Berry Seed Company, Clarinda, Iowa. Filed June 4, 1953.

BEAUTY BLOSSOM

For Soil—Namely, Potting Soil for African Violets and Other House Plants.
Claims use since Feb. 2, 1953.

Ser. No. 648,316. Loewengart & Company, New York, N. Y. Filed June 5, 1953.

RANCHO

Applicant claims ownership of Registration No. 531,237.
For Tanned Leather in the Piece for Use in the Manufacture of Handbags, Billfolds, Luggage, and Shoes.
Claims use since September 1950.

CLASS 2

RECEPTACLES

Ser. No. 623,144. Industrial Container Corporation, Brooklyn, N. Y. Filed Jan. 3, 1952.

STACKSTER

For Feeding Trays Constructed of Corrugated Board for Small Fowl.
Claims use since Nov. 7, 1951.

Ser. No. 647,401. Enterprise Incorporated, Dallas, Tex. Filed May 21, 1953.

PAP-O-NET

No claim is made for the word "Net" apart from the mark as shown in the drawing.
For Seamless Paper Knit Bags Particularly Adapted for Enclosing Ham and Other Meat Products for Suspension During Smokehouse Treatment.
Claims use since May 7, 1953.

Ser. No. 647,425. Keeline-Wilcox Nurseries, Montebello, Calif. Filed May 21, 1953.

Kee-Box

The word "Box" is disclaimed apart from the mark as shown in the drawing.
For Boxes Made of Wood Used in the Growing, Transporting, and Transplanting of Plants, Bushes, Trees, and the Like.
Claims use since July 24, 1952.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 647,014. Leeds Travelwear Corporation, New York, N. Y. Filed May 14, 1953.

Light-Zip

The exclusive right to the word "Light" apart from the mark as shown is hereby disclaimed. Applicant claims ownership of Registration No. 559,942.
For Articles of Luggage—Namely, Traveling Bags.
Claims use since Apr. 27, 1953.

Ser. No. 647,330. Atlantic Products Corporation, Trenton, N. J. Filed May 20, 1953.



For Hand Luggage.
Claims use since Sept. 24, 1952.

Ser. No. 648,374. Lester L. Cox, University City, Mo. Filed June 8, 1953.

Tumbling Thomas

For Billfolds and Purses Containing Foldable Card Receptacles.
Claims use since June 2, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 629,824. The Simonis Company, Chicago, Ill., now by change of name Simonis Company. Filed May 16, 1952.

BODYSHEEN

For Liquid Combination Cleaning and Polishing Preparation for Use on Automobiles and the Like.
Claims use since Mar. 31, 1952.

Ser. No. 635,730. Benjamin Vine, doing business as Haddon Products Company, Haddonfield, N. J. Filed Sept. 24, 1952.



The word "Luster" is disclaimed apart from the mark as shown on the drawing. The pictorial representation which the mark comprises is fanciful.
For Abrasive Cloth and Metal Scouring Pads and Cloths.
Claims use since June 1, 1952.

Ser. No. 645,150. William Howard Manufacturing, Inc., New York, N. Y. Filed Apr. 13, 1953.



The drawing is lined to represent red and blue. No claim is made to the word "Gleam" apart from the mark shown on the drawing.
For Metal Polish.
Claims use since December 1952.

Ser. No. 645,863. Cameo Corporation, Chicago, Ill. Filed Apr. 24, 1953.

KOPPER KEEPER

The word "Kopper" is disclaimed apart from the mark as shown.
For Metal Polish.
Claims use since Apr. 15, 1953.

Ser. No. 648,840. Cardinal Engineering Corporation, Philadelphia, Pa. Filed June 16, 1953.

Cardinal

For Diamond and Abrasive Wheels.
Claims use since on or about Dec. 15, 1950.

CLASS 5

ADHESIVES

Ser. No. 633,793. Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Filed Aug. 12, 1952.

LUCANOL

For Adhesive Cements—Namely, Viscous Cements Having a Polyvinyl Chloride Base.
Claims use since April 1948; and first used between foreign nations and the United States on June 29, 1949.

Ser. No. 642,490. Punch Products Manufacturing Company, Chicago, Ill. Filed Feb. 19, 1953.

Panoply

For Shaped Pre-Cut Masking Tapes.
Claims use since Nov. 1, 1952.

Ser. No. 644,738. Crown Zellerbach Corporation, San Francisco, Calif. Filed Apr. 6, 1953.

lockerap

Applicant claims ownership of Registration No. 389,225.
For Gummed Paper Tape.
Claims use since Sept. 20, 1945.

Ser. No. 645,846. United States Plywood Corporation, New York, N. Y. Filed Apr. 23, 1953.

L-1R

Applicant claims ownership of Registration No. 564,420.
For Plywood Adhesives in the Form of a Glue.
Claims use since Dec. 28, 1951.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 614,573. Rival Manufacturing Company, Kansas City, Mo. Filed May 31, 1951.

Steam-O-Dor

MIST

For Perfume in the Nature of a Household Deodorant.
Claims use since May 22, 1951.

Ser. No. 633,829. Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio. Filed Aug. 13, 1952.

POLYFOL

For Polymerized Marine Oil Used in the Manufacture of Lubricants and Textile and Leather Chemicals.
Claims use since July 1, 1952.

Ser. No. 636,290. The Haloid Company, Rochester, N. Y. Filed Oct. 7, 1952.



The drawing is lined for red. Applicant claims ownership of Registrations Nos. 551,230, 552,460, and 565,021.
For Developers Consisting of a Mixture of Electroscopic Powder and Granular Material Used for Producing Powder Images in Making Electrophotographic Copies, and Toners Comprising Electroscopic Powder Used in Connection With Granular Material To Produce Developer Powders Used for Making Electrophotographic Copies.
Claims use since June 22, 1949.

Ser. No. 637,835. The Mearl Corporation, New York, N. Y. Filed Nov. 8, 1952.



Applicant claims ownership of Registration No. 418,293.
For Air-Entraining Agents for Use in the Production of Light Weight Concrete.
Claims use since Feb. 11, 1952.

Ser. No. 642,440. Lloyd O. Wofford, San Diego, Calif. Filed Feb. 18, 1953.



The representation of the individual is fanciful. No claim is made to the word "Water" apart from the mark as shown.
For Water Softener Compositions.
Claims use since July 10, 1951.

Ser. No. 642,519. Benson-Nuen Laboratories, Inc., New York, N. Y. Filed Feb. 20, 1953.

HUMITOL

For Chemical Preparation for Use in Vaporizing Apparatus To Aid in Increasing the Humidity.
Claims use since Nov. 26, 1952.

Ser. No. 642,858. Verona Chemical Company, Newark, N. J. Filed Feb. 26, 1953.



The drawing is lined for orange.
For Dyestuff Intermediates and Photographic and Aromatic Chemical Compounds—Namely, o-Amino-Phenol, p-Amino-Phenol, p-Chlor-o-Anisidine, p-Chlor-o-Nitro-Anisole, p-Chlor-o-Nitro-Phenol, m-Diamino-Anisole Base, p-Dichlor-Aniline, m-Dinitro-Anisole, Ethyl-p-Toluene-Sulfonate, Methyl-p-Toluene-Sulfonate, Hydroquinone, Methyl Para Amino Phenol Sulfate, Diamino Phenol Dihydrochloride, Caffeine, Acetophenone (Methyl Phenyl Ketone), Acid Undecylenic, Alpha Amyl Cinnamic Aldehyde, Alpha Hexyl Cinnamic Aldehyde, Alpha Methyl Cinnamic Aldehyde, Amyl Salicylate, Benzylidine Acetone, Butyl Phenyl Acetate, Citral Pure 100%, Cuminic Aldehyde, Cuminone (Para Isopropylactophenone), Di Benzyl Acetal of Hydratropic Aldehyde, Di Butyl Acetal of Phenyl Acet Aldehyde, Di Methyl Acetal of Hydrotropic Aldehyde, Di Methyl Acetal of Amyl Cinnamic Aldehyde, Ethyl Methyl Phenyl Glycidate, Ethyl Phenyl Glycidate, Ethylene Glycol Acetal of Cyclamal, Ethylene Glycol Acetal of Hydrocinnamic Aldehyde, Ethylene Glycol Acetal of Phenyl Acet Aldehyde, Face Powder Base Z (Zinc Myristate), Hexyl Cinnamic Aldehyde, Hexyl Salicylate, Hydrocinnamic Aldehyde, Ionone Ketone, Ionone Methyl, Ionone Methyl Gamma, Ionone Terpenes, Iso Butyl Furyl Propionate, Para Cresyl Methyl Ether, Para Iso Propyl Acetophenone, Para Methyl Hydratropic Aldehyde, Phenoxy Ethyl Butyrate, Phenoxy Ethyl Iso Butyrate, Phenyl Propyl Aldehyde, and Tetra Hydro Ionone.
Claims use since on or about Mar. 1, 1938.

Ser. No. 643,044. Neirad Industries, Inc., Darien, Conn. Filed Mar. 3, 1953.

NEIRADEX

For Chemical Emulsions Used as a Rinse for Fabrics.
Claims use since Nov. 7, 1952.

Ser. No. 644,888. Armour and Company, Chicago, Ill. Filed Apr. 8, 1953.

ARMOX

For Refined Inedible Fats and Oils for General Use in the Industrial Arts.
Claims use since Mar. 10, 1953.

Ser. No. 645,788. Emerson & Cuming, Inc., Canton, Mass. Filed Apr. 23, 1953.

STYCAST

For Casting Resins.
Claims use since Dec. 15, 1951.

Ser. No. 647,919. E. F. Drew & Co., Inc., New York, N. Y. Filed May 29, 1953.

WECOLINE

Applicant claims ownership of Registration No. 297,926.
For Fatty Acids From Tallow, Fish Oil, Whale Oil, and Fatty Acids From Vegetable Oils—Namely, Oil of Peanut, Corn, Coconut, Castor, Palm and Wood Oil.
Claims use since Jan. 2, 1931.

Ser. No. 648,205. Sterling Drug Inc., New York, N. Y. Filed June 3, 1953.

HILTASPERSE

Applicant claims ownership of Registrations Nos. 542,784, 542,785, and others.
For Dispersed Pigment Pulps for Printing on Textiles.
Claims use since May 8, 1953.

Ser. No. 648,395. Burton H. Greenwood, doing business under the name of The Burtonite Company, Nutley, N. J. Filed June 8, 1953.

Burtonite

Applicant claims ownership of Registration No. 570,296.
For Inedible Hydrophilic Colloids Including Synthetic Colloids, and Aqueous Dispersons of Colloids.
Claims use since Nov. 9, 1949.

Ser. No. 648,413. Mathieson Chemical Corporation, Baltimore, Md. Filed June 8, 1953.

RUST

For Sulphur in Powder Form.
Claims use since January 1929.

Ser. No. 648,465. American Cyanamid Company, New York, N. Y. Filed June 9, 1953.

CYANA

For Finish for Textile Materials.
Claims use since May 7, 1953.

Ser. No. 648,582. American Chicle Company, Long Island City, N. Y. Filed June 11, 1953.

RETSYN

For Emulsified Specially Prepared Oleaginous Material.
Claims use since May 11, 1953.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 626,959. Bertil T. Renhard, Seattle, Wash. Filed Mar. 24, 1952.

SNUGADOR

For Weatherstripping for Doors and Casement Windows.
Claims use since on or about Feb. 27, 1950.

Ser. No. 635,235. Products Research Company, Glendale, Calif. Filed Sept. 13, 1952.

PRC

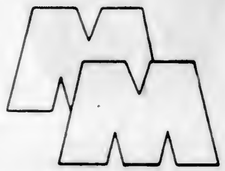
For Sealing Compositions, Cements, Putties, and Caulking Compounds in the Form of Spreadable Pastes, Dispersions, Semiliquids, and Liquids Generally Containing Organic Copolymers and Condensation Polymers for Sealing Fuel Tanks, Pressurized Aircraft Cabins, Windows, and the Like, and for Treated Felt Materials in Sheet or Strip Form for Weather Stripping for Use in Sealing Joints as Between Metallic Members and as Between Metallic Members and Glass.
Claims use since June 6, 1952.

Ser. No. 635,379. Stewart Screen Company, Pasadena, Calif. Filed Sept. 17, 1952.

TRIMVIEW

For All Metal Screen Door.
Claims use since Jan. 1, 1952.

Ser. No. 638,090. Manu-Mine Research & Development Co., Reading, Pa. Filed Nov. 14, 1952.



For Roadway Joint-Sealing Compound and Water-Proofing Materials in the Nature of Caulking Compound.
Claims use since May 3, 1948.

Ser. No. 638,434. National Gypsum Company, Buffalo, N. Y. Filed Nov. 21, 1952.

TWINSULATION

For Building Construction Materials Comprising a Mineral Wool Enclosed Blanket With Reflective Aluminum Foil Vapor Barrier on One Side.
Claims use since July 22, 1952.

Ser. No. 644,859. John W. Mickelsen, doing business under the name of Carolina Aluminum Awning Company, Greenville, S. C. Filed Apr. 7, 1953.



For Metal Awnings.
Claims use since Nov. 28, 1952.

Ser. No. 647,264. Charleston Clay Products Company, Charleston, W. Va. Filed May 19, 1953.

VITRICOTTA

For Structural Facing Tile for Walls and Floors.
Claims use since Sept. 20, 1939.

Ser. No. 648,315. Lind Plastic Products, Inc., Lincolnwood, Ill. Filed June 5, 1953.

LinTile

For Plastic Wall Tiles.
Claims use since Jan. 5, 1953.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 599,816. Combustion Engineering-Superheater, Inc., New York, N. Y., now by change of name Combustion Engineering, Inc. Filed June 27, 1950. (Sec. 2f.)

SUPERSPUN

For Cast Iron Soil Pipe.
Claims use since Nov. 28, 1949.

Ser. No. 617,174. Wilson Jones Company, Chicago, Ill. Filed July 31, 1951. (Sec. 2f.)

Tatum

For Staples.
Claims use since Mar. 1, 1949.

Ser. No. 640,286. Kuhns Brothers Company, Dayton, Ohio. Filed Jan. 2, 1953.

K

Applicant claims ownership of Registration No. 150,874.
For Pipe Fittings—Namely, Standard Screwed Elbows, T's, Crosses, Caps, Locknuts, Couplings, Reducing Couplings, Eccentric Reducing Couplings, Y Bends, Return Bends; Extra Heavy Screwed Elbows, T's, Crosses, Y Bends; Drainage Fittings; Standard and Extra Heavy Flanged Fittings, Companion Flanges, Standard Flange Unions, Plugs, Bushings, Floor Flanges, American Sprinkler Fittings; Also Ductile Fittings for Elbows, T's, Crosses, and Pipe Fittings.
Claims use since Dec. 1, 1888.

Ser. No. 645,155. Kelley Manufacturing Company, Houston, Tex. Filed Apr. 13, 1953.



The words "Steel," "Perfect," and "Products" are disclaimed apart from the mark.
For Disks Known in the Building Supply Trade as "Flat Tin Caps" and Generally Used for a Large Bearing Area Under a Nail Head.
Claims use since Oct. 27, 1952.

Ser. No. 646,339. Wickford Fabrics Corp., New York, N. Y. Filed May 1, 1953.

NYLO-SCREEN

No claim is made to the term "Screen" apart from the mark as shown.
For Screening Made of Nylon.
Claims use since Apr. 7, 1953.

Ser. No. 646,394. Charles J. Hoffman, York, Pa. Filed May 4, 1953. (Sec. 2f.)

KWIK-UP

For Perforated Hanger Iron for Hanging Pipe, Conduit, Duct Work, Shelves, Signs, and Other Articles.
Claims use since 1922.

Ser. No. 647,030. Walker M. Pate, doing business as The Pate Co., Darby, Pa. Filed May 14, 1953.

TYTOG

For Hangers Comprising a Bar and a Wire Hinged Thereto for Supporting Tubing and Wiring From Walls and Ceilings.
Claims use since October 1951.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 631,470. The Cooper Alloy Foundry Co., Hillside, N. J. Filed June 20, 1952.

SHELLCAST

For Castings Made of Stainless Steel Alloys.
Claims use since May 1, 1952.

Ser. No. 641,538. Automotive Materials Corporation, Detroit, Mich. Filed Jan. 30, 1953.

AMCOR

For Steel Bars and Wire.
Claims use since Jan. 7, 1953.

Ser. No. 648,446. Vanadium Corporation of America, New York, N. Y. Filed June 8, 1953.

SILBLOK

For Ferro-Silicon.
Claims use since Apr. 9, 1953.

CLASS 15

OILS AND GREASES

Ser. No. 643,100. Hohman Plating & Mfg. Inc., Dayton, Ohio. Filed Mar. 4, 1953.

SURF-KOTE

"Kote" is disclaimed apart from the mark shown.
For Solid Film Lubricant Including Molybdenum Disulphide and Compounds Thereof Applied as a Coating and for Powdered Molybdenum Sold for Lubricating Purposes.
Claims use since Oct. 16, 1952.

Ser. No. 649,179. The Pennzoil Company, Los Angeles, Calif. Filed June 22, 1953.

Multi-Vis

For Motor Lubricating Oil.
Claims use since Apr. 28, 1953.

Ser. No. 649,805. Metal Lubricants Co., Chicago, Ill. Filed July 3, 1953.

MELSOL

For Drawing Oil Which Is Applied to Metals Being Formed or Shaped To Prevent Scoring or Seizure of the Die and Metals Being Worked or Formed, Cutting Oil Which Is Applied or Flown Onto Metal That Is Being Machined, Tapped, Threaded, or Ground To Act as a Coolant and Lubricant, Lubricating Oil and Lubricating Grease.
Claims use since about June 1947.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 580,112. The Zip Abrasive Company, Cleveland, Ohio. Filed June 7, 1949.

SHORTSTOP

For Liquid Moisture-Repellent Coating Material for Coating Exposed Parts of Ignition System, Spark Plugs, Wires, and Outside of Distributor Head of Internal Combustion Engines.
Claims use since Dec. 15, 1948.

Ser. No. 648,967. Socony Paint Products Company, Raritan Township, Middlesex County, N. J. Filed June 17, 1953.

ZICOTE

For Ready Mixed Paints.
Claims use since Apr. 24, 1953.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 601,537. The Cutisene Company, Santa Cruz, Calif. Filed Aug. 1, 1950.

Cutisene

For Skin Ointment.
Claims use since July 5, 1950.

Ser. No. 614,839. S. Pfeiffer Manufacturing Co., St. Louis, Mo. Filed June 6, 1951.

KALMETS

Applicant claims ownership of Registration No. 385,088.
For Sedatives.
Claims use since Apr. 30, 1951.

Ser. No. 631,626. Rosemarie Lewis, doing business as Vogarell Products Company, Los Angeles, Calif. Filed June 23, 1952.

Lanacaine

For Preparation for Skin Irritations.
Claims use since Sept. 6, 1949.

Ser. No. 641,564. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Jan. 30, 1953.

DERMOID

In the drawing the fact that the trade-mark is always imprinted in white on a red background is indicated by the conventional lining for red. Applicant claims ownership of Registration No. 552,487.
For Medical Preparation—Namely, an Anti-Histamine Ointment Used in Relief and Treatment of Skin Irritations Caused by Allergy.
Claims use since Dec. 26, 1951.

Ser. No. 641,943. Mead Johnson & Company, Evansville, Ind. Filed Feb. 9, 1953.

Mejalin

For Vitamin, Liver, and Mineral Containing Preparations.
Claims use since Oct. 30, 1952.

Ser. No. 643,532. Thomas O. Booth, doing business as Dr. T. O. Booth, Springtown, Tex. Filed Mar. 12, 1953.

Paritrope

For Vermifuge and Medicinal Parasiticide for the Treatment of Domestic Animals and Livestock.
Claims use since Jan. 1, 1940.

Ser. No. 644,541. The Chemdrug Corporation, New York, N. Y. Filed Apr. 1, 1953. (Sec. 2f.)

FAMEL

For Cough Preparation.
Claims use since 1906.

Ser. No. 648,852. George G. Gese, trading as United Star Herb Company, Jersey City, N. J. Filed June 16, 1953.

D-A-LE-A-D

For Medicinal Vegetable Compound.
Claims use since May 1948.

Ser. No. 649,005. Eli Lilly and Company, Indianapolis, Ind. Filed June 18, 1953.

DICURIN PROCAINE

No property right is claimed in the word "Procaine" and applicant hereby disclaims any right to said portion of the trade-mark, apart from the mark as shown.
For Medicinal Preparation of Merethoxylline Procaine With Theophylline Used in the Prevention and Control of Excessive Fluid Accumulation in the Body.
Claims use since May 25, 1953.

Ser. No. 649,159. The Kenton Pharmacal Co., Covington, Ky. Filed June 22, 1953.

SENECOL

For Lipotropic Vitamin and Tonic Preparation.
Claims use since May 19, 1953.

Ser. No. 649,212. Chase Chemical Company, Newark, N. J. Filed June 23, 1953.

TOCYL

For Analgetic, Antispasmodic, and Antipyretic.
Claims use since June 3, 1953.

Ser. No. 649,240. Mathieson Chemical Corporation, New York, N. Y. Filed June 23, 1953.

CRYSDIMYCIN

For Antibiotic Preparation.
Claims use since May 28, 1953.

Ser. No. 649,250. Ralvan Company, San Jose, Calif. Filed June 23, 1953.

DOFF

For Dietary Supplement.
Claims use since on or about Mar. 18, 1953.

Ser. No. 649,569. Dorothy M. Carbonaro, doing business as Vita Laboratories, Auburn, N. Y. Filed June 30, 1953.

METACAPS

For Formula for the Treatment of Obesity.
Claims use since July 1, 1939.

Ser. No. 649,849. The Upjohn Company, Kalamazoo, Mich. Filed July 3, 1953.

Bio-Cortef

For Antibiotic Ointment.
Claims use since Apr. 30, 1953.

Ser. No. 649,850. The Upjohn Company, Kalamazoo, Mich. Filed July 3, 1953.

Biotiguent

Applicant claims ownership of Registrations Nos. 514,895, 562,272, and 564,334.
For Antibiotic Ointment.
Claims use since Apr. 30, 1953.

Ser. No. 649,965. San Antonio Drug Company, San Antonio, Tex. Filed July 7, 1953.

SanAnco

Applicant claims ownership of Registrations Nos. 93,911, 104,577, and 510,403.
For Screw Worm Remedy.
Claims use since Jan. 2, 1951.

Ser. No. 650,009. Sandoz Chemical Works, Inc., New York, N. Y. Filed July 8, 1953.

SANDOSTEN

Applicant claims ownership of Registrations Nos. 284,623, 300,570, and 315,685.
For Medicinal Preparation To Be Used in the Treatment of Allergic Diseases.
Claims use since June 15, 1953.

Ser. No. 650,081. Abbott Laboratories, North Chicago, Ill. Filed July 10, 1953.

BLUTENE

For Anti-Heparin Compound.
Claims use since June 26, 1953.

CLASS 19
VEHICLES

Ser. No. 618,318. William R. Fowler, doing business as B. F. Safety Lock Mfg. Co., Houston, Tex. Filed Sept. 1, 1951.

BF SAFETY LOCK

Applicant disclaims the words "Safety Lock" apart from the letters "BF."
For Safety Lock Springs for Auto Steering Linkage To Maintain the Temporary Connection of the Linkage Upon Breaking of the Same.
Claims use since June 18, 1951.

Ser. No. 631,439. Safride Ltd., Carson City, Nev., and Toledo, Ohio. Filed June 19, 1952.

Saf-Guard

The word "Saf" is disclaimed aside from the mark as shown.
For Pneumatic Shock Absorbing Dash Tables for Automobiles.
Claims use since Nov. 3, 1948.

Ser. No. 640,313. Carl Tune, Fayetteville, Ark. Filed Jan. 2, 1953.

TuneCraft

Applicant disclaims exclusive rights to the word "Craft" except in association with the word "Tune."
For Plywood Boats.
Claims use since Dec. 1, 1952.

CLASS 21
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 598,914. Ward Leonard Electric Company, Mount Vernon, N. Y. Filed June 10, 1950. (Sec. 2f.)

MOTORLITE

For Electric Lighting Control Apparatus, Specifically a Motor-Operated Dimmer.
Claims use since Dec. 30, 1940.

Ser. No. 608,515. The Pyramid Rubber Company, Ravenna, Ohio. Filed Jan. 8, 1951.

EVENFLO

Applicant claims ownership of Registrations Nos. 322,650, 549,434, and others.
For Electric Devices for Heating Water, Particularly To Produce Hot Water and Generate Steam for Warming Liquid Containing Vessels Such as Nursing Bottles an Contents.
Claims use since July 1, 1949.

Ser. No. 608,516. The Pyramid Rubber Company, Ravenna, Ohio. Filed Jan. 8, 1951.

EVENFLO

The drawing is lined for blue. Applicant claims ownership of Registrations Nos. 322,650, 549,434, and others.
For Electric Devices for Heating Water, Particularly To Produce Hot Water and Generate Steam for Warming Liquid Containing Vessels Such as Nursing Bottles and Contents.
Claims use since July 1, 1949.

Ser. No. 608,517. The Pyramid Rubber Company, Ravenna, Ohio. Filed Jan. 8, 1951.

Evenflo

The drawing is lined for orange, but color is not material. Applicant claims ownership of Registrations Nos. 322,650, 549,434, and others.
For Electric Devices for Heating Water, Particularly To Produce Hot Water and Generate Steam for Warming Liquid Containing Vessels Such as Nursing Bottles and Contents.
Claims use since July 1, 1949.

Ser. No. 616,111. Lincoln Engineering Company, St. Louis, Mo. Filed July 5, 1951. (Sec. 2f.)

LINCOLN

For Electric Record Changers.
Claims use since 1922; and since June 14, 1949, as to the mark shown.

Ser. No. 631,138. Aerovox Corporation, New Bedford, Mass. Filed June 13, 1952.



For Fixed Electrical Resistors.
Claims use since May 1, 1952.

Ser. No. 632,078. Cutler-Light Manufacturing Company, also known as Cutler-Light Manufacturing Co. and Cutler Light Manufacturing Company, Philadelphia, Pa. Filed July 2, 1952.

MIRAC-O-LITE

For Cold Cathode Fixtures Consisting of a Base Member in Association With a Tube, a Base Member Per Se, and a Tube Per Se.
Claims use since Apr. 10, 1952.

Ser. No. 632,214. Lewis and Kaufman, Inc., Los Gatos, Calif. Filed July 7, 1952.

SINTERCOTE

For Coated Electrodes for Electron Tubes.
Claims use since June 4, 1952.

Ser. No. 632,610. General Control Company, Boston, Mass. Filed July 16, 1952.

du-op

For Electrical Switches of the Slow-Acting Spring and Snap Action Types.
Claims use since Sept. 7, 1951.

Ser. No. 648,962. Schulmerich Electronics, Incorporated, Sellersville, Pa. Filed June 17, 1953.

Arcadian

For Automatic Program Controlled Sound Systems Sold as a Unit for Use for Churches, Institutions, Buildings, Etc., Said Units Having an Amplifier Connectable With a Loud Speaker and a Source of Audio Vibrations, and the Parts for the Aforesaid Goods.
Claims use since Mar. 5, 1953.

Ser. No. 649,015. Newcomb Audio Products Company, doing business as Pathfinder Electronics Company, Los Angeles, Calif. Filed June 18, 1953.

PATHFINDER

For Amplifiers and Public Address Systems and Their Controls.
Claims use since May 17, 1953.

Ser. No. 649,137. Electrical Testing Laboratories, Inc., New York, N. Y. Filed June 22, 1953. CERTIFICATION MARK.



Applicant disclaims the letters "CBM" and the words "Certified by."
For Fluorescent Lamp Ballasts.
Claims use since on or about May 19, 1953.

Ser. No. 649,139. Electrical Testing Laboratories, Inc., New York, N. Y. Filed June 22, 1953. CERTIFICATION MARK.



HIGH POWER FACTOR

With the exception of the letters "ETL," applicant disclaims, apart from the mark shown, all wording as such. The mark consists of the tout-ensemble of the arbitrary layout presented, which evidences the fact of certification, and particularly including the border arrangement, the distribution of the wording, the showing of the diamond, and the letters "ETL."
For Fluorescent Lamp Ballasts.
Claims use since on or about May 19, 1953.

Ser. No. 649,140. Electrical Testing Laboratories, Inc., New York, N. Y. Filed June 22, 1953. CERTIFICATION MARK.



Applicant claims ownership of Registrations Nos. 545,371, 545,372, and others.

For Electric Appliances—Namely, Flat Irons, Toasters, Waffle Irons, and Grilles; Portable Electric Lamps and Parts Thereof—Namely, Shades, Diffusers, and Bases; Residence Electric Lighting Fixtures; and Fluorescent Lighting Fixtures and Parts Thereof—Namely, Ballasts and Starters.

Claims use since 1933.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 621,913. Societe a Responsabilite Limitee: Etablissements C. B. G. Jouets, Paris (Seine), France. Filed Nov. 30, 1951.

C. B. G.

MIGNOT

Applicant disclaims the surname "Mignot." The lining appearing in the initials is part of the mark and does not represent color. Applicant claims ownership of French Registration No. 410,721, dated Mar. 8, 1951.

For Small Metal Toy-Figurines Representing Soldiers, Historical Persons, and Animals.

Ser. No. 626,941. Healthways, Los Angeles, Calif. Filed Mar. 24, 1952.

AQUA FLITE

For Water Skis and Bindings and Harnesses for Such Water Skis.

Claims use since Nov. 1, 1951.

Ser. No. 642,757. Kleinzway, Inc., doing business under the trade name and style of Waltco Products, Chicago, Ill. Filed Feb. 25, 1953.

ny-o-lite spinning reel

The words "Spinning Reel" are disclaimed apart from the mark as shown.

For Fishing Reels Made of Plastic and Plastic Compositions.

Claims use since July 15, 1952.

Ser. No. 648,401. Hudson Miniatures, Scranton, Pa. Filed June 8, 1953. (Sec. 2f.)

Lil' OLD TIMERS

For Toy Miniature Models of Automobiles.

Claims use since Apr. 30, 1948.

Ser. No. 648,402. Hudson Miniatures, Scranton, Pa. Filed June 8, 1953. (Sec. 2f.)

OLD TIMERS

For Toy Miniature Models of Automobiles.

Claims use since Apr. 30, 1948.

Ser. No. 649,520. Lamiglas Company, Kent, Wash. Filed June 29, 1953.

Supercutta

For Fishing Rods.

Claims use since Apr. 10, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 621,390. Conoflow Corporation, Philadelphia, Pa. Filed Nov. 19, 1951.

ROTOMOTOR

For Pneumatically Controlled and Actuated Positioners To Be Attached to Valves To Adjust the Valve and Thereby Vary Accurately the Passage of a Fluid Through a Conduit.

Claims use since September 1950.

Ser. No. 626,226. Wilson Manufacturing Company, Incorporated, Wichita Falls, Tex., and elsewhere. Filed Mar. 7, 1952.

Roadair

For Winches, Drilling Rigs, and Power Hoists.

Claims use since Dec. 28, 1948.

Ser. No. 627,264. Keller Research Corporation, Detroit, Mich. Filed Mar. 29, 1952. (Sec. 2f.)

KELLER

For Carburetors and Parts Therefo..

Claims use since Mar. 10, 1948.

Ser. No. 628,228. Speco, Inc., Schiller Park, Ill. Filed Apr. 17, 1952.

CORRECT CD DESIGN

No claim is made to the words "Correct Design" apart from the mark as shown. Applicant claims ownership of Registration No. 336,299.

For Meat Grinder Knives and Meat Grinder Plates.

Claims use since Nov. 15, 1951.

Ser. No. 630,813. Tavaro Societe Anonyme, Geneva, Switzerland. Filed June 5, 1952.

Transforma

Priority under Sec. 44(d). Swiss application, filed Mar. 3, 1952, Registration No. 141,329, dated Mar. 31, 1952.

For Sewing Machines, Including the Electric Portable Type, and Attachments Therefor—Namely, Bobbins, Presser Feet, Hemmer Feet, Hemmer-Felling Feet, Braiding Feet, Rufflers, Zipper Feet With Guide, Darning Feet, Darning Plates, Buttonhole Feet, Button Plates, Buttonhole Knives, Twin Needle Clamps, Piping Feet, Piping Guides, Needles, Screw Drivers, Simple and Double Cams, Cam Levers, Twin Needle Throat Plates, Button Feet.

Ser. No. 632,759. W. E. Thornton-Trump, Oliver, British Columbia, Canada. Filed July 18, 1952.

GIRAFFE

For Vehicle Mounted Hydraulically Operated Extensible and Adjustable Mast Mounted on a Rotary Turntable for Supporting an Occupant and/or Material Supporting Platform or Carriage Used for or in Conjunction With Pruning Trees, Picking Fruit, as Well as Numerous Other Agricultural and Industrial Operations Requiring Such Adaptation.

Claims use since Aug. 21, 1951; and use in commerce between foreign nations and the United States since Apr. 10, 1952.

Ser. No. 634,500. Taylor Machine Works, Louisville, Miss. Filed Aug. 26, 1952.

LOGGERS DREAM YARDSTER

No claim is made to the word "Loggers."

For Fork Lift Trucks.

Claims use since Dec. 15, 1951.

Ser. No. 637,356. Blaw-Knox Company, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware. Filed Oct. 30, 1952.

AUTOPOUR

For Hydraulic Power Cylinders Constructed for Attachment to Ladle Stopper Riggings, Pumps, Valves, and Power Transmitting Assemblies Thereof Organized for Assembly as a Unit in a Ladle Crane.

Claims use since Oct. 14, 1952.

Ser. No. 637,470. Warren Tool Corporation, Howland, Ohio. Filed Oct. 31, 1952.

Grain Stain

For Hand Tools, Particularly Heavy Hand Tools—Namely, Sledges, Hammers, Mauls, Adzes; Blacksmith Tools—Namely, Hot Chisels, Cold Chisels, Set Hammers, Square Flatters, Square Punches, Round Punches, Top Fullers, Top Swadges, Rivet Busters, Backing Out Punches; and Railroad Track Tools—Namely, Clay Picks, Double Pointed Clay Picks, Tamping Picks, Locomotive Coal Picks, Square Eye Railroad Adzes, Standard Pattern Spike Mauls, Bell Pattern Spike Mauls, Round Track Punches, Tie Plug Punches, and Track Chisels, and Parts of the Foregoing.

Claims use since Sept 18, 1952.

Ser. No. 639,738. Best-Built Sewing Machine Supply Co., Inc., New York, N. Y. Filed Dec. 19, 1952.

BEST BUILT MIRACLE

No claim is made to the words "Best Built" apart from the mark, for the purpose of this application.

For Sewing Machines.

Claims use since June 1, 1952.

Ser. No. 639,739. Best-Built Sewing Machine Supply Co., Inc., New York, N. Y. Filed Dec. 19, 1952.

BEST BUILT MIRACLE STITCHER

No claim is made to the words "Best Built" and the word "Stitcher" apart from the mark, for the purposes of this application.

For Sewing Machines.

Claims use since June 1, 1952.

Ser. No. 643,586. Greenfield Tap and Die Corporation, Greenfield, Mass. Filed Mar. 13, 1953. (Sec. 2f.)

SUPERMETRIC

Applicant claims ownership of Registrations Nos. 109,724, 313,739, and 313,942.

For Thread-Cutting Chasers for Thread-Cutting Tools.

Claims use since Sept. 12, 1947.

Ser. No. 643,880. W. J. Savage Company, Knoxville, Tenn. Filed Mar. 4, 1953.



For Bag Closing Sewing Machines.
Claims use since 1912.

Ser. No. 645,181. Gerald A. Petersen, doing business as Petersen Engineering Co., Santa Clara, Calif. Filed Apr. 13, 1953.

PENGO

For Earth Augers and Parts Thereof.
Claims use since Aug. 13, 1946.

Ser. No. 645,283. Ansul Chemical Company, Marinette, Wis. Filed Apr. 15, 1953.



The mark consists of two superimposed circles slightly spaced from each other, the upper one being slightly smaller in diameter than the lower one, and a vertical bar positioned adjacent the right side of the circles slightly spaced therefrom giving the impression of a conventionalized letter "a."
For Portable Hand and Wheel-Mounted Fire-Extinguishers.
Claims use since Mar. 30, 1953.

Ser. No. 645,470. Diamond Saw Works, Inc., Buffalo, N. Y. Filed Apr. 17, 1953. (Sec. 2f.)

Super-Sterling

Applicant claims ownership of Registration No. 380,134.
For Metal Cutting Saw Blades and Saw Blade Frames.
Claims use since 1931.

Ser. No. 645,988. Charlie C. Heflin, doing business as Popular Products Company, Memphis, Tenn. Filed Apr. 27, 1953.

Wm Tell

The words "Wm. Tell" refer to the legendary archer and do not refer to any known living individual.
For Razor Blades.
Claims use since Feb. 7, 1951.

Ser. No. 647,737. Utica Drop Forge & Tool Corporation, Utica, N. Y. Filed May 26, 1953.



Applicant claims ownership of Registrations Nos. 83,793 and 523,495.
For Pliers, Nippers, Wrenches, Snips, and Hand-Operated Tools Having Relatively Movable Jaws for Cutting, Gripping, and Engaging Work, and Screw Drivers.
Claims use since on or about Dec. 1, 1910.

Ser. No. 648,203. Spherical Bearing Corporation, Bridgeport, Conn. Filed June 3, 1953.

SPHERCO

For Self-Aligning Spherical Bearings and Self-Aligning Spherical Rod-End Bearings.
Claims use since Apr. 27, 1953.

Ser. No. 648,540. Dustex Corp., Buffalo, N. Y. Filed June 10, 1953.

DUSTEX

Applicant claims ownership of Registration No. 413,673.
For Industrial Separators and Collectors of the Centrifugal Type for Separating Entrained Particles From Fluids.
Claims use since Feb. 27, 1947.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 622,431. Cribben and Sexton Company, Chicago, Ill. Filed Dec. 13, 1951.

UNIVERSAL

Applicant claims ownership of Registrations Nos. 72,145, 363,261, and 543,556.
For Gas-Fired Clothes Dryer.
Claims use since Dec. 10, 1951.

Ser. No. 649,343. Automatic Washer Company, Newton, Iowa. Filed June 25, 1953.

Hydro-Poise

For Domestic Laundry Machines, Wherein Both Washing and Rinsing Operations Are Performed.
Claims use since Dec. 27, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 609,230. Colwell Litho Products Inc., Minneapolis, Minn. Filed Jan. 25, 1951.

coLight

The term "Light" is hereby disclaimed apart from the rest of the mark as set forth in the drawing.
For Photographic Exposure Frames for Making Photographic Contact Prints Through Negatives.
Claims use since Jan. 5, 1951.

Ser. No. 628,764. Interstate Photo Supply Corp., New York, N. Y. Filed Apr. 26, 1952.

Elitar

For Photographic Lenses, in Still and Moving Picture Cameras.
Claims use since July 12, 1951.

Ser. No. 637,139. Optische Werke C. A. Steinheil Sohne G. m. b. H., Munich, Germany. Filed Oct. 24, 1952.

Cassar

For Photographic Cameras, Telescopes, Binocular Field-Glasses, Projectors, Photographic Objectives, Telescope Objectives, Projecting Objectives.
Claims use since Mar. 18, 1920; and use in commerce between foreign nations and the United States since Aug. 18, 1925.

Ser. No. 643,127. Twentieth Century-Fox Film Corporation, New York, N. Y. Filed Mar. 4, 1953.

CINEMASCOPE

For Motion Picture Films Synchronised With Sound.
Claims use since Feb. 25, 1953.

Ser. No. 647,304. Maspeth Telephone & Radio Corporation, Brooklyn, N. Y. Filed May 19, 1953. (Sec. 2f.)

MASPETH

For Test Equipment for Telephone, Telegraph, and Other Related Communication Apparatus—Namely, Switchboard Test Sets, Monitoring Sets, Polar Relay Test Sets, Transmission Test and Measuring Sets.
Claims use since March 1947.

Ser. No. 647,365. Omega Machine Company, Providence, R. I. Filed May 20, 1953.

Chemizer

For Feeders for Continuously Feeding Powdered or Granular Material by Weight at a Manually Adjustable Constant Rate or at an Automatically Adjustable Rate in Proportion to the Rate of Another Material.
Claims use since May 1, 1953.

Ser. No. 647,687. Eugene Dietzgen Co., Chicago, Ill. Filed May 26, 1953.

Road King

For Measuring Tapes, Scales, and Rules.
Claims use since on or about Feb. 1, 1953.

Ser. No. 647,712. Paramount Pictures Corporation, Hollywood, Calif., and elsewhere. Filed May 26, 1953.

Paravision

For Motion Picture Film.
Claims use since Apr. 30, 1953.

Ser. No. 647,893. Edward J. Stukenborg, doing business as Hy-Wyd Sales Co., Cincinnati, Ohio. Filed May 28, 1953.

HY-WYD

For Spectacles and Spectacle Mountings.
Claims use since May 26, 1953.

Ser. No. 648,426. Photographic Importing & Distributing Corp., Valley Stream, N. Y. Filed June 8, 1953.

Elitar

For Photographic Lenses, Lens Caps, and the Carrying Cases for Such Lenses and Caps.
Claims use since Apr. 16, 1951.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 574,519. Emil Leichter, New York, N. Y. Filed Feb. 25, 1949. (Sec. 2f.)

HYDEPARK SUPREME

Applicant claims ownership of Registration No. 408,220.
For Watches.
Claims use since on or about January 1943.

Ser. No. 640,665. Belvil Watch Co. S. A., La Chaux-de-Fonds, Switzerland. Filed Jan. 13, 1953.

GIROXA

Applicant claims ownership of Swiss Registration No. 112,790, dated Nov. 2, 1945.
For Watches, Clocks, Parts of Clocks and Watches, Including Pendulums, Alarm Clocks, Movements of Clocks and Watches, and Casings of Clocks and Watches.

Ser. No. 640,700. Societe Anonyme Mido, Bienne, Switzerland. Filed Jan. 13, 1953.



Applicant claims ownership of Swiss Registration No. 142,878, dated June 9, 1952.
For Watches, Clocks, and Parts of Clocks and Watches.

Ser. No. 642,906. S. A. Reider & Co., New York, N. Y. Filed Feb. 27, 1953.

Four-Caster

For Clocks.
Claims use since Dec. 18, 1952.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 615,548. The Grand Council of Gamma Phi Beta, Chicago, Ill. Filed June 22, 1951.



Applicant claims ownership of Registration No. 299,989.
For Jewelry, for Personal Wear Not Including Watches—Namely, Finger Rings, Bracelets, Lapel Pins, Ornamental Pins, Charm Keys, and the Following Made in the Whole of, or in Part of, or Plated With Precious Metal: Key Chains, Candle Sticks, Tie Clasps, and Cuff Links.
Claims use since 1910.

Ser. No. 617,021. Feature Ring Co., Inc., New York, N. Y. Filed July 27, 1951.

BEAUTI-GLO

Applicant disclaims "Beauti" apart from the mark as shown in the drawing.
For Gold and Platinum Jewelry—Namely, Finger Rings.
Claims use since July 10, 1951.

Ser. No. 622,663. Zonta International, Chicago, Ill. Filed Nov. 9, 1951.



ZONTA

Applicant claims ownership of Registration No. 280,701.
For Club Badges, Pins, and Finger Rings.
Claims use since Nov. 8, 1919.

Ser. No. 645,713. Jacoby-Bender, Inc., New York, N. Y. Filed Apr. 22, 1953.

GOLDEN COIN

Applicant hereby disclaims the word "Golden" apart from the mark shown.
For Watch Bracelets Sold Separately From the Watches.
Claims use since Jan. 7, 1953.

Ser. No. 645,714. Jacoby-Bender, Inc., New York, N. Y. Filed Apr. 22, 1953.

GOLDEN PENNY

Applicant hereby disclaims the word "Golden" apart from the mark shown.
For Watch Bracelets Sold Separately From the Watches.
Claims use since Jan. 7, 1953.

Ser. No. 646,582. The Tailored Woman, Inc., New York, N. Y. Filed May 6, 1953.

Acacia

For Jewelry—Namely, Simulated Pearls, Finger Rings, Bracelets, Brooches, Pins, Necklaces, Clips, Earrings, Tiaras, Buttons, and Buckles All Made in Whole or in Part of Precious Metal or Plated With the Same.
Claims use since Mar. 2, 1953.

Ser. No. 648,017. Gemex Company, Union, N. J. Filed June 1, 1953.

GONDOLIER

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since May 21, 1953.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 640,336. Gladding, McBean & Co., Los Angeles, Calif. Filed Jan. 5, 1953.

Franciscan

Applicant claims ownership of Registration No. 323,685.
For Tableware of Fine China and Pottery.
Claims use since Oct. 1, 1934.

Ser. No. 644,790. Royal China Inc., Sebring, Ohio. Filed Apr. 6, 1953.



The words "The" and "Shop" are disclaimed apart from the mark as shown.
For Ceramic Dinnerware—Namely, Saucers, Fruit Dishes, Oat Meal Dishes, Soup Dishes, Dinner Plates, Vegetable Dishes, Chop Plates, and Casseroles.
Claims use since January 1950.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 614,832. Robert B. Irvin, doing business as Irvin Woodworking Shop, St. Petersburg, Fla. Filed June 6, 1951.

PAKA-SHELF

No claim is made for the word "Shelf" apart from the mark as shown in the drawing.
For Rectangular Packages of Flat Board Lumber and Wood Dowel Rods Prefabricated to Size for Assembly Into Sets of Shelves.
Claims use since June 1, 1951.

Ser. No. 629,917. Rol-Fol Table, Inc., Los Angeles, Calif. Filed May 19, 1952.

ROL FOL

The word "Rol" is disclaimed apart from the trade-mark as a whole.
For Furniture—Namely, a Combined Multi-Purpose Foldable Table and Wall Frame Unit for Storage of the Table When Not in Use.
Claims use since Aug. 9, 1951.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 624,843. Milwaukee Gas Specialty Company, Milwaukee, Wis. Filed Feb. 12, 1952.

ANNULAIR

For Pilot Burners.
Claims use since June 1951.

Ser. No. 632,585. Acme Industries, Inc., Jackson, Mich. Filed July 16, 1952.

ACME

Applicant claims ownership of Registration No. 570,621.
For Air Conditioning Units.
Claims use since 1936.

Ser. No. 633,697. Oscar Fisher Company, Inc., New York and Peekskill, N. Y. Filed July 23, 1952. (Sec. 2f.)

ANHYDRATOR

Applicant claims ownership of Registration No. 523,259.
For Driers of General Utility Which Supply Dry Air to a Closed Housing for Any Drying Purpose, the Dry Air Being Obtained by Means of Chemical Action.
Claims use since Mar. 1, 1947.

Ser. No. 643,487. Heatbath Appliances, Inc., Indian Orchard, Springfield, Mass. Filed Mar. 11, 1953.



Without waiving its common law rights thereto, applicant disclaims an exclusive right to the representation of the gas flame apart from the mark shown in the drawing.
Applicant claims ownership of Registration No. 520,731.
For Stoves and Gas Burners.
Claims use since Oct. 14, 1952.

Ser. No. 648,038. Owens Metal Company, Kansas City, Mo. Filed June 1, 1953.

Omeco

For Forced Draft Evaporative Air Coolers and Non-Electric Space Heaters.
Claims use since May 1948.

CLASS 37

PAPER AND STATIONERY

Ser. No. 632,638. United States Envelope Company, Springfield, Mass. Filed July 16, 1952.

LINWEAVE CAPRI

Exclusive rights to the term "Capri," apart from the mark as shown, are hereby disclaimed. Applicant claims ownership of Registrations Nos. 154,170, 155,298, and others.

For Correspondence Envelopes.

Claims use since Apr. 23, 1952.

Ser. No. 644,426. W. H. S. Lloyd Co., Inc., New York, N. Y. Filed Mar. 30, 1953. (Sec. 2f.)

SANDERSON

For Wallpaper.

Claims use since 1882.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 647,029. The Parents' Institute, Inc., New York, N. Y. Filed May 14, 1953.

FAMILY HOME GUIDE

Applicant does not make any claim to the word "Guide" apart from the mark.

For Magazine Published Quarterly.

Claims use since Apr. 20, 1953.

CLASS 39

CLOTHING

Ser. No. 627,083. Premier Knitting Co. Inc., New York, N. Y. Filed Mar. 26, 1952.

RESILIONATED

For Ladies', Men's, and Children's Sweaters.

Claims use since December 1951.

Ser. No. 628,177. Winner, Inc., Berne, Ind. Filed Apr. 16, 1952.

SELFSIZER

For Waistbands for Slacks, and Men's and Boys' Slacks Having Automatic Adjustable Waistbands Incorporated Therein.

Claims use since on or about Feb. 15, 1952.

Ser. No. 633,128. Torch Rubber Company, Inc., New York, N. Y. Filed July 26, 1952.

Hi-Slix

The word constituent "Hi" is disclaimed apart from the mark as shown.

For Boots and Overshoes for Men, Women, and Children, Made From Rubber or Latex.

Claims use since September 1950.

Ser. No. 635,743. Chelsea Hosiery Mills, Inc., Chelsea, Mass. Filed Sept. 25, 1952.

permaWear

The word "Wear" is disclaimed apart from the mark as shown on the drawing.

For Ladies' Hosiery.

Claims use since May 1, 1952.

Ser. No. 636,820. Tex-Son, Inc., San Antonio, Tex. Filed Oct. 17, 1952.

TEX-SON

Applicant claims ownership of Registration No. 370,083.

For Articles of Wearing Apparel for Children—Namely, Play Suits, Short and Long Pants, Shirts, Blouses, Middie Blouses, Overalls, Riding Breeches, Jackets, Jodhpurs, Dresses, Slacks, and Suits.

Claims use since May 7, 1952.

Ser. No. 636,949. Tex Manufacturing Co., Inc., El Paso, Tex. Filed Oct. 21, 1952.

Texas Tim

The word "Texas" is disclaimed apart from the mark.

For Western Jeans and Jackets for the Use of Men and Boys.

Claims use since Sept. 15, 1951.

Ser. No. 638,071. Dotty-Dan Co., Lubbock, Tex. Filed Nov. 14, 1952.

Dotty Dan

For Boys' Clothes—Namely, Outer Shirts, Shorts, Slacks, Coveralls, Zipper Overalls, Sport Suits, Jackets, and Sun Suits; and Girls' Clothes—Namely, Dresses, Blouses, Pants, Coats, Dressing, Bath or Beach Robes, Jackets and Sun Suits.

Claims use since Nov. 1, 1945.

Ser. No. 641,306. The Julian & Kokenge Company, Columbus, Ohio. Filed Jan. 26, 1953. (Sec. 2f as to "Locke.")

DR. Locke SHOES

No claim is made to the exclusive right to the use of the word "Shoes" separate and apart from the mark as shown. "Dr. Locke" is the professional name of Dr. M. W. Locke, a prominent orthopedic physician who is now deceased. Applicant claims ownership of Registrations Nos. 308,909 and 337,753.

For Women's Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials.

Claims use since Jan. 12, 1953, on the mark as shown; and since Dec. 7, 1932, as to the name "Locke."

Ser. No. 642,062. The Berger Brothers Company, New Haven, Conn. Filed Feb. 11, 1953.

Blithe Spirit

For Girdles and Brassières.

Claims use since on or about Jan. 9, 1953.

Ser. No. 642,671. J. R. Love, Celeste, Tex. Filed Feb. 24, 1953.

Betty Marie

For Girls' and Women's Underwear.

Claims use since Apr. 1, 1948.

Ser. No. 642,678. Mar-Tan Inc., New York, N. Y. Filed Feb. 24, 1953.

CINERAMA

For Men's and Boys' Jackets, Pajamas, Outer Shirts, and Snowsuits.

Claims use since on or about Dec. 5, 1952.

Ser. No. 643,130. The Van Wert Manufacturing Co., Van Wert, Ohio. Filed Mar. 4, 1953.

Vanslacks

Applicant claims ownership of Registration No. 519,420.

For Overalls, Work and Dress Shirts, Service Coats, Coversuits, Pants and Breeches for Men and Boys; Lined and Unlined Jackets, Made of Leather and Textiles, for Men, Women, and Children; Smocks for Men and Women; Slacks for Women; Caps for Men and Boys.

Claims use since Apr. 16, 1951.

Ser. No. 643,489. Hickok Manufacturing Co. Inc., Rochester, N. Y. Filed Mar. 11, 1953.

Continental

For Apparel Belts.

Claims use since Dec. 1, 1952.

Ser. No. 644,753. Industrial Products Company, Philadelphia, Pa. Filed Apr. 6, 1953.

"Turtle-back"

For Safety Helmets—Namely, Protective Headwear Used by Workmen and Others To Guard Against Head Injuries Caused by Falling Objects and Accidental Impact Against Surrounding Materials.

Claims use since Nov. 1, 1947.

Ser. No. 644,934. The Strouse, Adler Company, New Haven, Conn. Filed Apr. 8, 1953.

Smoothie

Applicant claims ownership of Registration No. 305,541.

For Foundation Garments—Namely, Girdles, Panty Girdles, Roll-On Girdles, Combinations or Corselettes, Bandeaux and Brassières.

Claims use since at least as early as July 31, 1933.

Ser. No. 645,734. Rough Rider, Inc., Napa, Calif. Filed Apr. 22, 1953.

JAGUAR

For Men's and Boys' Slacks.

Claims use since Apr. 2, 1953.

Ser. No. 646,171. Sanson Hosiery Mills, Inc., Philadelphia, Pa. Filed Apr. 29, 1953.

MAGIC STITCH

Applicant disclaims the word "Stitch" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 318,297, 327,567, and others.

For Women's Hosiery.

Claims use since Apr. 7, 1953.

Ser. No. 646,601. Cluett, Peabody & Co., Inc., Troy, N. Y. Filed May 7, 1953.

ARROW

Applicant claims ownership of Registrations Nos. 34,645, 75,369, and others.

For Hosiery for the Use of Men.

Claims use since Sept. 11, 1944.

Ser. No. 647,690. Hickok Manufacturing Co. Inc., Rochester, N. Y. Filed May 26, 1953.

"Breather"

For Apparel Belts.
Claims use since Mar. 1, 1952.

Ser. No. 647,808. Republic Garment Mfg. Co., Republic, Mo. Filed May 27, 1953.

PRAIRIE KID

For Children's Dungarees.
Claims use since Apr. 25, 1952.

Ser. No. 647,809. Republic Garment Mfg. Co., Republic, Mo. Filed May 27, 1953.

PRAIRIE KING

For Men's Dungarees.
Claims use since Apr. 25, 1952.

Ser. No. 647,810. Republic Garment Mfg. Co., Republic, Mo. Filed May 27, 1953.

PRAIRIE QUEEN

For Women's and Misses' Dungarees.
Claims use since Apr. 25, 1952.

Ser. No. 647,833. Commerce Manufacturing Company, Inc., Commerce, Ga. Filed May 28, 1953.

SOO-ZQ

For Dungarees.
Claims use since Nov. 21, 1951.

Ser. No. 647,911. Commerce Manufacturing Company, Inc., Commerce, Ga. Filed May 29, 1953.

TECUMSEH CHIEF

For Dungarees.
Claims use since Aug. 14, 1952.

Ser. No. 648,317. S. Makransky & Sons, Inc., Philadelphia, Pa. Filed June 5, 1953.

Wind Spray

For Suits, Coats, Vests, Pants, Overcoats, and Topcoats for Men.
Claims use since Jan. 9, 1953.

Ser. No. 648,366. Brownstein-Louis Company, Los Angeles, Calif. Filed June 8, 1953.

Stronghold

Applicant claims ownership of Registrations Nos. 130,658, 145,540, and others.
For Men's Overalls, Jackets, and Pants.
Claims use since 1896.

Ser. No. 648,417. J. W. Mays, Inc., Brooklyn, N. Y. Filed June 8, 1953.

MOULIN ROUGE

For Ladies' Nylon Stockings.
Claims use since Mar. 26, 1953.

Ser. No. 648,439. Albert Strougo, doing business under the name of Eldora Underwear Co., New York, N. Y. Filed June 8, 1953.

Renedor

The stippling in the mark on the drawing reproduces the stippling appearing in the specimens.
For Women's, Misses', and Children's Panties, Bloomers, and Drawers.
Claims use since on or about May 6, 1953.

Ser. No. 648,982. Constantine Dress Company, Boston, Mass. Filed June 18, 1953.

Mello Sheer

The word "Sheer" is disclaimed apart from the mark as shown on the drawing.
For Women's and Misses' Dresses.
Claims use since Feb. 1, 1952.

Ser. No. 649,180. Pioneer Manufacturing Company, Inc., Wilkes-Barre, Pa. Filed June 22, 1953.

Nifteen

For Dresses for Misses.
Claims use since Feb. 18, 1953.

Ser. No. 649,274. Arc de Triomphe Fashions, Inc., New York, N. Y. Filed June 24, 1953.

Arc de Triomphe

For Dresses for Women and Young Women.
Claims use since June 6, 1953.

Ser. No. 650,055. Lamm Brothers, Inc., Baltimore, Md. Filed July 9, 1953.

The BREATHER

For Coats for Men, Women, Girls, and Boys.
Claims use since May 1, 1953.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 649,891. Locks Laboratories, Inc., Mount Vernon, N. Y. Filed July 6, 1953.

Hair Styler

For Brush and Comb Combination.
Claims use since on or about Jan. 1, 1953.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 639,425. Goldblatt Bros. Inc., Chicago, Ill. Filed Dec. 13, 1952.

Judy Lou

The lining on the drawing is for shading. No particular color is claimed for the mark in question.
For Babies' Crib Sheets, and Quilted Mattress Pads.
Claims use since Dec. 10, 1952.

Ser. No. 648,600. Hafner Associates, Inc., Long Island City, N. Y. Filed June 11, 1953. (Sec. 2f.)

HAFNER FABRICS

Apart from the combination "Hafner Fabrics," the word "Fabrics" is disclaimed. Applicant claims ownership of Registration No. 417,162.
For Textile Fabrics in the Piece Made of Silk, Cotton, Wool, Rayon, Nylon, Protein Fibres, or Mixtures Thereof.
Claims use since Apr. 10, 1944.

CLASS 43

THREAD AND YARN

Ser. No. 646,314. Royal Cotton Mill Company, Saxapahaw and Wake Forest, N. C. Filed May 1, 1953.

Royal Egyptian

The word "Egyptian" is disclaimed apart from the mark as shown on the drawing.
For Knitting Yarns.
Claims use since on or about Jan. 26, 1952.

Ser. No. 646,315. Royal Cotton Mill Company, Saxapahaw and Wake Forest, N. C. Filed May 1, 1953.

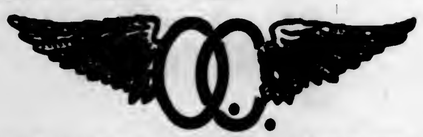
Royal Egyptian Delta

The word "Egyptian" is disclaimed apart from the mark as shown on the drawing.
For Knitting Yarns.
Claims use since on or about Jan. 26, 1952.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 637,496. Francis H. Montmarquet, doing business under the name of the O-C Manufacturing Co., Little Falls, N. J. Filed Nov. 1, 1952.



Applicant claims ownership of Registrations Nos. 91,588, 286,882, and others.

For Suspensories, Athletic Supporters for Both Men and Women, Anklets, Ankle Supporters and Wrist Supporters To Strengthen the Ankles and Wrists.

Claims use since March 1912.

Ser. No. 638,875. Lee S. Smith & Son Manufacturing Company, also known as Lee Smith Company, Pittsburgh, Pa., and Chicago, Ill. Filed Dec. 2, 1952.

IMPREX

For Powder for Use in Taking Dental Impressions and as a Corrective Wash.

Claims use since 1938.

Ser. No. 638,877. Lee S. Smith & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Filed Dec. 2, 1952.

KREX

For Corrective Wash for Denture Impressions.

Claims use since 1942.

Ser. No. 638,878. Lee S. Smith & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Filed Dec. 2, 1952.

LS·2

For Dental Impression Cream.

Claims use since February 1952.

Ser. No. 642,116. Sellstrom Manufacturing Company, Chicago, Ill. Filed Feb. 2, 1953. (Sec. 2f.)

sellstrom

Applicant claims ownership of Registration No. 419,957.

For Respirators.

Claims use since July 1944.

Ser. No. 648,860. The Hygienic Dental Manufacturing Co., Akron, Ohio. Filed June 16, 1953.

FLEXIBOLE

For Receptacles for Mixing Plaster, Investment Material, and Impression Material for the Dental Arts.

Claims use since June 2, 1953.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 584,327. Frozen Foods Marketing Co., also known as Frozen Foods Marketing Co., Inc., San Francisco, Calif., now by change of name Hampshire Marketing Co., Inc., a corporation of Illinois. Filed Sept. 1, 1949.

Hampshire

For Fresh Frozen Green Beans, Green Peas, and Whole Kernel Corn.

Claims use since on or about May 25, 1949.

Ser. No. 592,398. J. H. Shinohara, Chula Vista, Calif. Filed Feb. 13, 1950.



For Fresh Vegetables.

Claims use since Sept. 11, 1948.

Ser. No. 612,197. Robert L. Berner Company, Chicago, Ill. Filed Apr. 4, 1951. CONCURRENT USE with Ser. No. 626,865 for the area comprising all the States of the Union except Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, and New Jersey, and that part of New York State east of a line extending north and south through Oneida, New York.

Holiday

For Unshelled Nuts Packed in Bags and Large Sacks.

Claims use since Oct. 28, 1938.

Ser. No. 612,891. M. C. St. Clair Berkeley, doing business under the trade name Berkeley Foods, Baltimore, Md. Filed Apr. 20, 1951. (Sec. 2f.)

Berkeley Manor

For Canned Foods—Namely, Fruits, Vegetables, Vegetable and Fruit Juices—Namely, Prune Juice, Tomato Juice, and Apple Juice; Bottled Goods—Namely, Olives; Salad Dressings; Fruit Preserves; Pickles; Vinegar; Apple Butter; Cherries; Mayonnaise; Relish; Peanut Butter.

Claims use since Mar. 15, 1951.

Ser. No. 618,089. Interstate Bakeries Corporation, doing business as Schulze Baking Company and as Weber Baking Co., Kansas City, Mo., Chicago, Ill., and elsewhere.



Exclusive right to register the checkered design background is not claimed. Applicant claims ownership of Registrations Nos. 270,774, 512,319, and 543,840.

For Bread.

Claims use since July 12, 1930.

Ser. No. 635,427. Old Dutch Coffee Co., Incorporated, New York, N. Y. Filed Sept. 18, 1952. (Sec. 2f.)



Applicant claims ownership of Registrations Nos. 170,220 and 170,792.

For Coffee.

Claims use since July 1, 1947.

Ser. No. 638,756. The Val. Decker Packing Company, Piqua, Ohio. Filed Nov. 29, 1952.

Piquality

For Meat and Meat Products—Namely, Breakfast Bacon, Tender Ham, Cooked Ham, Boneless Smoked Ham, Ready-to-Eat Ham, Bacon Belly, Smoked Cottage Roll, Ready-to-Eat Smoked Picnic, Smoked Beef Tongue, Canadian Style Bacon, Sliced Bacon, Pure Lard, New England Brand Pressed Luncheon, Sausage, Smoked Cooked Ham, Pork Sausage, Pork Sausage Breakfast Links, Bologna, Ring Bologna, Leona Sausage, Souse, Sandwich Spread, Cooked Salami, Liver Sausage, Thuringer, Chili Con Carne, Liver Sausage (Pudding), Smoked Pork Sausage, Polish Style Sausage, Cooked Smoked Beef Loaf, Jellied Tongue Loaf, Pepper Loaf, Pork and Beef Loaf, Dutch Brand Loaf, Imitation Chicken Loaf, Savory Loaf, Pimiento Loaf, Olive Loaf, Pickle and Pimiento Loaf, Buckeye Loaf, Skinless Wieners.

Claims use since on or about Mar. 5, 1928.

Ser. No. 641,168. Bongards Co-operative Creamery Association, doing business also as Bongard's Creameries, Bongards, Minn. Filed Jan. 23, 1953. (Sec. 2f.)

Bongards

For Butter, Cheese, and Pulverulent Mixture Composed Principally of Dried Whey and Defatted Soya Flour Sold to Bakeries and the Like and Used by Them Instead of Dried Milk in the Making of Bakery Products.

Claims use since on or about Jan. 1, 1942.

Ser. No. 641,169. Bongards Co-operative Creamery Association, doing business also as Bongard's Creameries Bongards, Minn. Filed Jan. 23, 1953.



For Butter and a Pulverulent Mixture Comprised Principally of Dried Whey and Defatted Soya Flour Sold to Bakeries and the Like and Used by Them Instead of Dried Milk in the Making of Bakery Products.

Claims use since on or about Jan. 1, 1942.

Ser. No. 641,884. Albers Super Markets, Inc., Cincinnati, Ohio. Filed Feb. 9, 1953.

PATSY ANN

Applicant claims ownership of Registration No. 322,745.

For Fresh Eggs, Butter, Canned Fruits, Canned Vegetables, and Canned Juices—Namely, Canned Tomato Juice and Canned Citrus Fruit Juices.

Claims use since September 1941.

Ser. No. 642,159. Pandaleon Brothers, Inc., Chicago, Ill. Filed Feb. 12, 1953.

SHAH

For Dates and Dried Fruits.

Claims use since Jan. 30, 1953.

Ser. No. 644,298. Joseph S. Goddard, doing business under the name of Goddard's Fine Foods, Florence, Oreg. Filed Mar. 27, 1953.

Jomade

For Soups, Salad Dressings, Cocktail and Meat Sauces, Chicken and Dumplings, and Fried Chicken All in a Frozen State.

Claims use since on or about Mar. 18, 1953.

Ser. No. 646,043. Albert J. Ashkar, Inc., Los Angeles, Calif. Filed Apr. 28, 1953.



The words "Vitamin," "California Pascal Celery," and the representation of the stalk of celery are disclaimed apart from the mark as shown.

For Fresh Celery.

Claims use since Mar. 15, 1953.

Ser. No. 646,332. T & F Marketing Co., Inc., Chicago, Ill. Filed May 1, 1953.

TOP FROST

Applicant disclaims the word "Frost" apart from the mark as shown. Applicant claims ownership of Registration No. 431,486.

For Fresh Frozen Fish—Namely, Cod, Flounder, Haddock, Halibut, Ocean Perch, Pacific Ocean Perch, Rockfish, Salmon, Scallops, Shrimp, Sole and Whiting; Frozen Fruit Juice Concentrate—Namely, Orange Juice; Frozen Fruit and Fruit Products—Namely, Applesauce, Apricots, Blackberries, Blueberries, Boysenberries, Loganberries, Peaches, Raspberries and Strawberries; Frozen Poultry Products—Namely, Cut-Up Fryers, Breasts, Drumsticks, Thighs, Wings, Hearts and Gizzards, Livers, and Chicken a la King; and Frozen Vegetables—Namely, Asparagus, Beans, Broccoli, Brussels Sprouts, Cauliflower, Corn, Peas, Peas and Carrots, Potatoes, Rhubarb, Spinach, Squash, Succotash, and Mixed Vegetables.

Claims use since on or about May 3, 1946.

Ser. No. 647,280. John W. Eshelman & Sons, Lancaster, Pa. Filed May 19, 1953.

RED ROSE

Applicant claims ownership of Registrations Nos. 242,463 and 360,702.

For Poultry Feeds, Pigeon Feeds, Dairy Feeds, Calf Feeds, Stock Feeds, Hog Feeds, Horse Feeds, Goat Feeds, and Dog and Puppy Foods.

Claims use since January 1917.

Ser. No. 647,281. John W. Eshelman & Sons, Lancaster, Pa. Filed May 19, 1953.

RED ROSE

Applicant claims ownership of Registrations Nos. 242,463 and 360,702.

For Poultry Feeds, Pigeon Feeds, Dairy Feeds, Calf Feeds, Stock Feeds, Hog Feeds, Horse Feeds, Goat Feeds, and Dog and Puppy Foods.

Claims use since 1917.

Ser. No. 649,273. Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad. Filed June 24, 1953. (Sec. 2f as to "Angostura.")



Applicant disclaims the words "Aromatic Bitters" and the representation of a bottle apart from the mark as shown. Applicant claims ownership of United States Registrations Nos. 63,312, 340,780, and others.

For Aromatic Bitters Used for Food Flavoring Purposes.

Claims use since Mar. 20, 1953 on the mark as shown; and first used in interstate commerce on Mar. 20, 1953; and claims use since 1927 as to "Angostura" in interstate commerce.

Ser. No. 649,656. Mars, Incorporated, Chicago, Ill. Filed July 1, 1953.

MARS AID

The drawing is lined for the colors red and brown. Applicant claims ownership of Registrations Nos. 304,055, 308,958, and others.

For Candy.

Claims use since May 29, 1953.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 629,594. Arkow-Lewis Frosties Division, Philadelphia, Pa. Filed May 13, 1952.

FROSTIES

No claim is made to the word "Stik" except in the association shown.

For Adhesive Coated Cut-Outs of Spun Glass in the Form of Stars, Animals, Bells, Snow Crystals, and Human Figures for Use on Windows, Doors, Mirrors, and Similar Glass Surfaces.

Claims use since Feb. 15, 1950.

Ser. No. 639,384. Earl D. Miller, doing business under the name of Crafters of Pine Dunes, Oostburg, Wis. Filed Dec. 12, 1952.



The lines on the drawing form a part of the mark and do not represent color.

For Craft Kits for Building and Whittling Various Figures Including Catchina Dolls, Indian Boy and Indian Woman, Black Bear, and Decoy Duck, Each Kit Including One or More Blocks of Soft Wood and an Instruction Sheet for Carving the Wood and for Coloring the Figure Cut From the Wood; and Kits for Making Indian Moccasins Which Contain a Blank of Leather, Needles and Thread, and Blackfoot Head Band Which Includes Pieces of Fabric, a Feather and an Instruction Sheet.

Claims use since June 10, 1952.

Ser. No. 639,671. Transparent Cover Company, Inc., Chicago, Ill. Filed Dec. 17, 1952.

TOTEM TEEPEE

Applicant disclaims the word "Teepee" apart from the mark as shown. The drawing is lined to indicate yellow.

For Tents.

Claims use since Dec. 4, 1952.

Ser. No. 649,255. A. J. Siris Products Corp., New York, N. Y. Filed June 23, 1953.

Betty Lou

For Plastic Place Mats.

Claims use since February 1952.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 592,767. La Maur, Inc., Minneapolis, Minn. Filed Feb. 20, 1950.

LaMaur

For Hair Dress Oil, Hair Lacquer, Permanent Wave Lotion, Permanent Wave Neutralising Lotion.

Claims use since Sept. 15, 1929.

Ser. No. 600,309. Sales Affiliates, Inc., New York, N. Y. Filed July 6, 1950.

IN-BETWEENER

For Hair Waving Lotion.

Claims use since June 8, 1950.

Ser. No. 630,908. Perfume Gems, Inc., New York, N. Y., assignor to Perf, Inc., New York, N. Y., a corporation of New York. Filed June 7, 1952.

PERF

For Perfume Pellets.

Claims use since May 1, 1952.

Ser. No. 630,953. Rolley, Inc., also doing business as Rolley, San Francisco, Calif. Filed June 9, 1952.

Barbary Coast

For Perfume, Cologne, Hand Cream, Bath Oil, Talc Powder, Perfumed, Powdered Sachet.

Claims use since Sept. 8, 1946.

Ser. No. 637,186. Norman J. Phelps, Chicago, Ill., assignor to Hugh B. Trotter, Evanston, Ill. Filed Oct. 25, 1952.

MASTERPIECE

For Perfume, Cologne, Lipstick, and Face Powder.

Claims use since May 10, 1951.

Ser. No. 637,818. Max Factor & Co., Los Angeles and Hollywood, Calif. Filed Nov. 8, 1952.

Creme Puff

Applicant claims ownership of Registration No. 418,969.

For Make-Up Product in the Nature of a Compressed Powder.

Claims use since July 11, 1952.

Ser. No. 643,606. Parfymeri Asta Aktiebolag, Stockholm, Sweden. Filed Mar. 13, 1953.

Bio-kur

No claim is made to the word "Kur" apart from the mark, as shown. Applicant claims ownership of Swedish Registration No. 73,036, dated Nov. 28, 1952.

For Preparation for Treating and Reconditioning the Hair and Scalp.

Ser. No. 644,942. C. G. Winans Company, Newark, N. J. Filed Apr. 8, 1953.

WINCO

For Bath Salt.

Claims use since Feb. 21, 1953, as shown; and since 1923 as to "Winco."

Ser. No. 645,939. Madam C. J. Walker Mfg. Co., Indianapolis, Ind. Filed Apr. 24, 1953.

Vapoil

For Hair Dressing.

Claims use since August 1939.

Ser. No. 648,378. Douglas Laboratories Corporation, Miami, Fla. Filed June 8, 1953.



The representation of a man's head is fanciful.

For Suntan Oils and Creams.

Claims use since Mar. 15, 1947.

Ser. No. 648,781. Norda Essential Oil & Chemical Company, Inc., New York, N. Y. Filed June 15, 1953.

Traviata

For Perfumes, Toilet Waters, Sachets, Astringent Lotions, Eyeshadow, Face Powder, Powder Bases, Lipstick, Rouge, Face Creams, Face Lotions, Body Lotions, and Dusting Talc.

Claims use since Mar. 10, 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 601,472. Chester Whitfield Smith, doing business under the name and style of Whitfield Chemical Company, Detroit, Mich. Filed July 29, 1950.

ALK-A-SOL

Exclusive right to use of the term "Sol" apart from the trade-mark shown is disclaimed.

For Alkaline Cleaning and Stripping Agent and Additive to Caustic Solutions, Useful for Example in Cleaning Graphited Drawing Compounds and Lubricants, Lapping Compounds, Pigmented Residues, and the Like From Metal Parts, as Well as for Stripping Paints, Enamels, Varnishes, Lacquers, Resin Formulations, and the Like, and for Cleaning the Same From Metal Parts, Particularly From Ferrous or Magnesium Alloys.

Claims use since Feb. 24, 1950.

Ser. No. 627,602. Sanford Ink Company, Bellwood, Ill. Filed Apr. 4, 1952.

Solvene

For Fluid for Cleaning Typewriter Type, Rubber Stamps, Numbering Machines, and Mechanical Office Devices.

Claims use since Jan. 1, 1924.

Ser. No. 631,278. Duntra Laboratories, New Brunswick, N. J. Filed June 17, 1952.

Duntra

For Cleaner for Removing Dirt, Grease, Rust, Corrosion, and Water Stains From Ovens, Broilers, Ranges, Bathtubs, Sinks, Chrome, Brass, Copper, Aluminum, Tile, and Porcelain.

Claims use since January 1950.

Ser. No. 638,015. Rilling Dermetics Company, New York, N. Y. Filed Nov. 13, 1952.

LANOLOC

For Shampoo.

Claims use since Oct. 16, 1952.

Ser. No. 639,162. Eaton Chemical and Dyestuff Company, Detroit, Mich. Filed Dec. 8, 1952.

OGP

For Spotting Preparation Designed and Useful for Removal of Oil, Grease, Paint, Road Oil, Varnish, Shellac, Pitch, Salad Oil, and Hard Grease.

Claims use since Nov. 3, 1952.

Ser. No. 640,083. Harry A. Stelley, doing business under the fictitious firm name and style of Chemical Specialties Co., Los Angeles, Calif. Filed Dec. 27, 1952.

BRUSHITE

For Brush and Roller Cleaner and Softener.

Claims use since on or about June 1, 1945.

Ser. No. 640,409. The Perolin Company, Inc., Dover, Del., and New York, N. Y. Filed Jan. 6, 1953.

Perolin SINCE 1904

Applicant claims ownership of Registration No. 98,683.

For Chemical Compositions for Cleansing and Conditioning Fluid Handling and Heat Transfer Systems and Other Surfaces by Removing One or More of the Contaminates: Soot, Scale, Corrosion, Dirt, Oil, and Grease, Including in Particular: Compositions for Removing Soot and Scale From the Fire Side of Fuel Burning Systems (by Direct Addition to the Fire or Flame); Liquid, Gelatinous and Solid Boiler Treatment Compositions Possessing Cleansing Properties; Drain-Pipe Cleaner Compositions; Compositions for Removal of Scale and Corrosion From Water Systems; and Compositions for Use With Fresh or Salt (Sea) Water To Cleanse Surfaces of Oil and Grease.

Claims use since Mar. 1, 1947.

Ser. No. 645,056. G. H. Packwood Manufacturing Co., St. Louis, Mo. Filed Apr. 10, 1953.

PAXSOLV

Applicant claims ownership of Registrations Nos. 253,176 and 389,614.

For Skin Cleanser.

Claims use since Aug. 1, 1947.

Ser. No. 645,065. G. H. Packwood Manufacturing Co., St. Louis, Mo. Filed Apr. 10, 1953.

PAX DICTATOR

Applicant claims ownership of Registrations Nos. 253,176 and 389,614.

For Skin Cleanser.

Claims use since Jan. 27, 1937.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 629,219. Southern Illinois Breeding Association, Breese, Ill. Filed May 5, 1952.



The term "Sires of Distinction," the term "Service," and the outline map of the State of Illinois are all disclaimed apart from the mark as shown.

For Artificial Insemination of Livestock.

Claims use since Apr. 10, 1952.

Ser. No. 635,117. Marie Bergren, Oak Park, Ill. Filed Sept. 11, 1952.

NUBOOK MB CARDS

No claim is made to "Nubook Cards" apart from the mark as shown on the drawing.

For Reporting Service for Libraries Relative to Books Newly Published Wherein the Applicant Furnishes Information Concerning the Title, Author, Publisher, Price, Subject Matter, Binding, Grade Level, and References to Reviews of a Particular Book in Magazines and Newspapers.

Claims use since June 29, 1952.

Ser. No. 635,546. Motor Vehicle Research, Inc., Lee, N. H. Filed Sept. 20, 1952.



No claim is made to the words "Motor Vehicle Research," "Safety," "Development," apart from the mark as shown, for the purpose of this registration; but no common law or other rights are otherwise waived.

For Testing Motor Vehicles While Operating Them, and in a Laboratory, and Testing Any Component Part Thereof, To Determine Their Durability, Any Weaknesses Therein, and Safety Characteristics, and Reporting Thereon for Automobile Manufacturers in Various States.

Claims use since Dec. 17, 1951.

Ser. No. 638,069. The Dog House, Inc., Youngstown, Ohio. Filed Nov. 14, 1952.



For Restaurant Services.

Claims use since Oct. 1, 1952.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 632,162. W. A. Krueger Co., Milwaukee, Wis. Filed July 5, 1952. (Sec. 2f.)

MICRO-COLOR

For Precision Color Lithographing, Consisting of the Reproduction of Four-Color Process Work by a Lithographing Process Which Is Supplemented by the Use of Humidity Control, Bi-Metallic Plates, and a Color Transparency Illuminator Which Evaluates Scientifically the Range of Color Values in Color Copy.

Claims use since Dec. 18, 1945.

Ser. No. 644,512. A. C. Nielsen Company, Chicago, Ill. Filed Mar. 31, 1953.

NCS

Applicant claims ownership of Registration No. 539,435.
For Marketing Research—Namely, Marketing Research With Reference to Radio and Television Audiences.
Claims use since May 26, 1952.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 611,583. George E. Rice, Jr., doing business as Road Patrol Auto Service, Ashtabula, Ohio. Filed Mar. 20, 1951.

ROAD PATROL

For Emergency Vehicle Repair Service.
Claims use since Feb. 16, 1951.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 641,149. Pilot Freight Carriers, Inc., Winston-Salem, N. C. Filed Jan. 22, 1953.

PILOT
USCAN
SERVICE

The word "Service" is disclaimed apart from the mark as shown.
For Transportation of General Commodities by Truck.
Claims use since Aug. 29, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

583,554. Canned Vegetables and Canned Fruits. Kuner-Empson Company, Brighton, Colo.
Filed Oct. 23, 1947, Serial No. 538,767. Published Aug. 25, 1953. Class 46.

583,555. Canned Vegetables, Canned Tomato Juice, and Green Tomato Pickle. The B. F. Shriver Company, Westminster, Md.
Filed Nov. 18, 1947, Serial No. 541,592. Published Sept. 8, 1953. Class 46.

583,556. Equipment for Welding, Cutting, Brazing, Soldering, Lead Burning, Etc. The Bastian-Blessing Company, Chicago, Ill.
Filed Feb. 17, 1948, Serial No. 549,872. Published Aug. 11, 1953. Class 34.

583,557. Equipment for Welding, Cutting, Brazing, Soldering, Lead Burning, Etc. The Bastian-Blessing Company, Chicago, Ill.
Filed Feb. 17, 1948, Serial No. 549,873. Published Aug. 11, 1953. Class 34.

583,558. Voltmeters; Thermostats With Electrical Contacts for Controlling Temperature in a Space; Etc. General Controls Co., Glendale, Calif.
Filed Apr. 5, 1948, Serial No. 553,842. Published Aug. 4, 1953. Class 26.

583,559. Equipment for Welding, Cutting, Brazing, Etc. The Bastian-Blessing Company, Chicago, Ill.
Filed Apr. 13, 1948, Serial No. 564,014. Published Aug. 11, 1953. Class 34.

583,560. Pipe Organs. Wicks Organ Company, Highland, Ill.
Filed Oct. 15, 1948, Serial No. 568,091. Published Sept. 15, 1953. Class 36.

583,561. Gas Ranges, Gas Space Heaters, Coal or Wood Ranges, Coal or Wood Space Heaters, and Oil Ranges. H. R. Clawson, doing business as Bridge, Beach & Co., San Francisco, Calif.
Filed Nov. 19, 1948, Serial No. 569,052. Published Aug. 4, 1953. Class 34.

583,562. Prepared Cake Flour and Prepared Cookie Flour. Acme-Evans Company, Indianapolis, Ind., now by change of name Acme-Evans Company, Inc.
Filed Dec. 27, 1948, Serial No. 571,103. Published Apr. 18, 1950. Class 46.

583,563. Personal Photographs. Halo-Star Corporation, Oak Park, Ill.
Filed June 29, 1949, Serial No. 581,260. Published Sept. 8, 1953. Class 38.

583,564. Utility Racks, Adapted To Be Secured to Any Desired Surface, Etc. John R. Lentz, trading as Lentz Novelty Co., Philadelphia, Pa.
Filed June 29, 1949, Serial No. 581,270. Published Sept. 15, 1953. Class 13.

583,565. Movable Machinery for Heating and Pouring Metals Prior to Casting Same. United American Metals Corporation, Brooklyn, N. Y.
Filed July 27, 1949, Serial No. 582,584. Published Aug. 25, 1953. Class 34.

583,566. Facial Oil in the Nature of a Skin Conditioner. Glorion Corporation of America, Beverly Hills, Calif.
Filed Nov. 7, 1949, Serial No. 587,437. Published Sept. 22, 1953. Class 51.

583,567. Equipment for Welding, Cutting, Brazing, Soldering, Lead Burning, Etc. The Bastian-Blessing Company, Chicago, Ill.
Filed Jan. 7, 1950, Serial No. 590,484. Published Aug. 25, 1953. Class 34.

583,568. Natural and Synthetic Food Flavorings Sold in Bulk to Confectionery Industries. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware.
Filed Mar. 20, 1950, Serial No. 594,263. Published Aug. 4, 1953. Class 46.

583,569. Publication Issued Periodically. Burndy Engineering Company, Inc., New York, N. Y.
Filed Apr. 17, 1950, Serial No. 595,824. Published Sept. 1, 1953. Class 38.

583,570. Candies, Prepared Edible Chocolate, Cocoa, Alimentary Pastes, Dog Food, Etc. Companhia Industrial de Conservas Alimenticias "Cica," Sao Paulo, Brazil.
Filed May 5, 1950, Serial No. 596,899. Published Aug. 18, 1953. Class 46.

583,571. Wire Cloth. Northwestern Steel and Wire Company, Sterling, Ill.
Filed May 18, 1950, Serial No. 597,692. Published Sept. 22, 1953. Class 13.

583,572. Bread. The Butereg Company, Inc., Pampa, Tex., and Kansas City, Mo.
Filed June 5, 1950, Serial No. 598,571. CERTIFICATION MARK. Published Aug. 18, 1953. Class 46.

583,573. Light Reflectors Adapted for Use in Signalling, Warning, and Advertising Devices. D. Swarovski Glasfabrik und Tyrolit-Schleifmittel-Werke, Wattens, Tirol, Austria.
Priority under Sec. 44(d). Austrian Registration No. 16,311, filed Dec. 16, 1949.
Filed June 10, 1950, Serial No. 598,934. Published Aug. 18, 1953. Class 34.

583,574. Bags Made of Laminated Paper, Textile and Paper, or Paper. Bemis Bro. Bag Company, St. Louis, Mo.
Filed June 19, 1950, Serial No. 599,360. Published Sept. 22, 1953. Class 2.

583,575. Trolleys—Namely, Overhead, Monorail, and I-Beam, Etc. David Round & Son, Cleveland, Ohio.
Filed Aug. 2, 1950, Serial No. 601,642. Published Aug. 4, 1953. Class 23.

583,576. Wall Board. Midwest Plywood Company, Detroit, Mich.
Filed Aug. 17, 1950, Serial No. 602,327. Published Sept. 15, 1953. Class 12.

583,577. Calculating Machines, Etc. Contina Bureaux- und Rechenmaschinenfabrik Aktiengesellschaft, Mauren, Liechtenstein.
Filed Aug. 30, 1950, Serial No. 603,713. Published July 28, 1953. Class 26.

583,578. Cast and Castable Refractories; Bonding and Patching Mortars, Etc. Refractory & Insulation Corporation, New York, N. Y.
Filed Sept. 19, 1950, Serial No. 603,747. Published Sept. 22, 1953. Class 12.

583,579. Ladies'; Misses'; and Children's Sweaters. Old Colony Knitting Mills, Inc., Hingham, Mass.
Filed Oct. 4, 1950, Serial No. 604,446. Published Aug. 4, 1953. Class 39.

583,580. Girls' and Dolls' Lingerie—Namely, Pants, Gowns, Pajamas, Robes, and Slips, All Made of Various Materials and Sold in Matching Sets for Girls and Dolls. Empire Manufacturing Company, Denver, Colo.
Filed Dec. 18, 1950, Serial No. 607,803. Published July 28, 1953. Class 39.

583,581. Fresh Citrus Fruits, Canned Citrus Fruits, and Canned Citrus Fruit Juices. Scenic Citrus Cooperative, Frostproof, Fla.
Filed Dec. 19, 1950, Serial No. 607,870. Published June 2, 1953. Class 46.

583,582. Deodorant Mouth Wash. The Pharma-Craft Corporation, New York, N. Y.
Filed Jan. 4, 1951, Serial No. 608,378. Published Aug. 25, 1953. Class 51.

583,583. Medicinal Mouth Wash. The Pharma-Craft Corporation, New York, N. Y.
Filed Jan. 13, 1951, Serial No. 608,765. Published Aug. 25, 1953. Class 18.

583,584. Dairy Products—Namely, Sour Cream. Knudsen Creamery Co. of California, Los Angeles, Calif.
Filed Mar. 16, 1951, Serial No. 611,438. Published Nov. 4, 1952. Class 46.

583,585. Grooved Phonograph Records. Les Disques de France, Paris, France.
Filed Mar. 20, 1951, Serial No. 611,574. Published Sept. 15, 1953. Class 36.

583,586. Etched and Lithographed Metal Name Plates. American Name Plate & Manufacturing Company, Chicago, Ill.
Filed Apr. 7, 1951, Serial No. 612,365. Published Sept. 1, 1953. Class 50.

583,587. Permanent Waving Kit Consisting of Cold Wave Waving Lotion and Neutralizer Powder Used in Permanent Waving of the Hair. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Apr. 11, 1951, Serial No. 612,522. Published Sept. 22, 1953. Class 51.

583,588. Enamelled, Tinned, and Aluminium Household Articles, Etc. N. V. Kamper Emaillefabrieken v/h H. Berk & Zoon, Kampen, Netherlands.
Filed May 8, 1951, Serial No. 613,693. Published Sept. 22, 1953. Class 13.

583,589. Wool Dust Mop for Cleaning and Polishing Floors. New England Mop Co., Central Falls, R. I.
Filed July 13, 1951, Serial No. 616,441. Published Sept. 22, 1953. Class 29.

583,590. Ground Dry Refractory Product in Granular Form To Be Applied by Gunning for Repairing Hot Furnaces. E. J. Lavino and Company, Philadelphia, Pa.
Filed Aug. 2, 1951, Serial No. 617,257. Published Sept. 15, 1953. Class 12.

583,591. Alcoholic Cordials—Namely, Orange Curacao. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier, Fils Aine Et Cie), Paris, France.
Filed Aug. 15, 1951, Serial No. 617,713. Published July 21, 1953. Class 49.

583,592. Control Valves for Gas Burners for Industrial and Laboratory Purposes and Blow Torches for Industrial and Laboratory Purposes. John Stepanian, doing business at Step Laboratories, West New York, N. J.
Filed Sept. 26, 1951, Serial No. 619,269. Published Aug. 25, 1953. Class 34.

583,593. Collapsible Hats for Women and Girls. Maureen Manufacturing Company, Chicago, Ill.
Filed Dec. 6, 1951, Serial No. 622,161. Published July 28, 1953. Class 39.

583,594. Rubber Sponge-Floor Mops With Squeeze Drying Attachments. Felix K. Bogan, Plantsville, Conn.
Filed Jan. 15, 1952, Serial No. 623,588. Published Sept. 15, 1953. Class 29.

583,595. Electrical Overload Indicators for Electrical Induction Apparatus Such as Transformers. Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Filed Jan. 17, 1952, Serial No. 623,697. Published July 14, 1953. Class 26.

583,596. Device Comprising Essentially a Platform, an Aligning Mechanism and a Viewing Screen for Testing and Checking Wheel Alignment of Automotive and Other Vehicles Propelled on Wheels. Bear Manufacturing Company, Rock Island, Ill.
Filed Jan. 22, 1952, Serial No. 623,868. Published July 28, 1953. Class 26.

583,597. Beauty Cream for the Hands, Brilliantine, Dusting Powder, Eau de Cologne, Face Cream, Face Milk, Face Powder, Hair Dressing, and Perfume. Lucky Strike Perfumeries Corporation, New York, N. Y.
Filed Jan. 24, 1952, Serial No. 624,041. Published Sept. 15, 1953. Class 51.

583,598. Colored Photographic Film. American Viscose Corporation, Philadelphia, Pa.
Filed Feb. 1, 1952, Serial No. 624,380. Published July 28, 1953. Class 26.

583,599. Calculating Machines. Olympia Büromaschinenwerke A. G., Wilhelmshaven, Germany.
Filed Jan. 9, 1952, Serial No. 624,521. Published July 14, 1953. Class 26.

583,600. Bearing Structures—To Wit, Bearing Sleeves, Bearing Blocks, Thrust Bearings. American Electro Metal Corporation, Yonkers, N. Y.
Filed Feb. 14, 1952, Serial No. 624,922. Published July 21, 1953. Class 23.

583,601. Soya Lecithin for Use as a Food. Wolf Foods, Inc., Kansas City, Mo.
Filed Feb. 21, 1952, Serial No. 625,380. Published Sept. 22, 1953. Class 46.

583,602. Non-fat Dry Milk Solids. Consolidated Badger Cooperative, doing business as Consolidated Badger, Inc., Shawano, Wis.
Filed Mar. 5, 1952, Serial No. 625,968. Published Sept. 22, 1953. Class 46.

583,603. Bricks Made of Concrete and Having One Rough Face. Roma Tex Brix Co., Portland, Oreg.
Filed Mar. 7, 1952, Serial No. 626,118. Published Sept. 15, 1953. Class 12.

583,604. Structural Materials Comprising Embossed Channel Steel Frame Members and Adjustable Interlocking Fittings Therefor Sold as Complete Units, Etc. Ainsworth Manufacturing Corporation, Detroit, Mich.
Filed Mar. 20, 1952, Serial No. 626,721. Published Sept. 22, 1953. Class 12.

583,605. Fresh Eggs. Bouthillet-Gray Laboratories, Inc., St. Paul, Minn.
Filed Mar. 10, 1952, Serial No. 626,190. Published Aug. 25, 1953. Class 46.

583,606. Warm Air Furnaces, Gas Burners, Oil Burners, Blowers for Warm Air Furnaces, Camp Stove Units, and Warm Air Furnace Fittings. The Peerless Foundry Company, Indianapolis, Ind.
Filed Mar. 22, 1952, Serial No. 626,904. Published Aug. 11, 1953. Class 34.

583,607. Gravy Mix, Potato Salad, Macaroni Salad, Fruit Salad, Cole Slaw, Salad Dressing, Horseradish, Horseradish Relish, and Fish Sauce. Wilson Products Company, Salt Lake City, Utah.
Filed Mar. 31, 1952, Serial No. 627,365. Published Sept. 22, 1953. Class 46.

583,608. Dye for Hair and Beard. Raimondo Perla, Rome, Italy.
Filed Apr. 26, 1952, Serial No. 628,776. Published Sept. 15, 1953. Class 51.

583,609. Fresh Milk, Including Also Homogenized Vitamin-D Fresh Milk, Buttermilk, Etc. Foremost Dairies, Inc., Jacksonville, Fla.
Filed May 21, 1952, Serial No. 630,001. Published Sept. 15, 1953. Class 46.

583,610. Extruded Thermoplastic Materials in the Form of Sheets, Rods, Tubes, and Bars. Schwab & Frank Inc., Detroit, Mich.
Filed May 24, 1952, Serial No. 630,214. Published Mar. 10, 1953. Class 1.

583,611. Wooden Shingles and Shakes. Laslo Horecny, Seaside, Oreg.
Filed June 4, 1952, Serial No. 630,711. Published Sept. 15, 1953. Class 12.

583,612. Cakes, Cookies, and Crackers. Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va.
Filed June 10, 1952, Serial No. 631,030. Published Aug. 25, 1953. Class 46.

583,613. Automatic Poultry Fountains To Be Connected to a Water Feed Line and Valves Therefor. Miller Manufacturing Co., Inc., St. Paul, Minn.
Filed June 21, 1952, Serial No. 631,560. Published Sept. 8, 1953. Class 13.

583,614. Musical Instruments—Namely, Accordions. Pancordion, Inc., New York, N. Y.
Filed July 11, 1952, Serial No. 632,438. Published Sept. 15, 1953. Class 36.

583,615. Wood Screws. Whitney Screw Corporation, Nashua, N. H.
Filed July 14, 1952, Serial No. 632,542. Published Sept. 15, 1953. Class 13.

583,616. Monthly Publication Distributed by It to Its Customers and Others. Weltronic Company, Southfield Township, Oakland County, and Detroit, Mich.
Filed July 15, 1952, Serial No. 632,578. Published Sept. 1, 1953. Class 38.

583,617. Parts Charts Issued From Time to Time and Containing Lists of Parts With Prices Thereof and Technical Data Thereon. Melville E. Foster, Minneapolis, Minn., assignor to Carter-Neal Inc., Indianapolis, Ind., a corporation of Indiana.
Filed July 17, 1952, Serial No. 632,669. Published Sept. 1, 1953. Class 38.

583,618. Men's Sport and Dress Outer Shirts. Lancer Shirt Company, Los Angeles, Calif.
Filed July 26, 1952, Serial No. 633,110. Published July 28, 1953. Class 39.

583,619. Control Valves To Regulate the Flow of Gases or Liquids. Wm. R. Whittaker Co. Ltd., Los Angeles, Calif.
Filed July 26, 1952, Serial No. 633,131. Published Sept. 8, 1953. Class 13.

583,620. Base Metal Ware—Namely, Asparagus Racks, Bain-Maries, Basins, Beakers, Etc. N. V. Gerofabriek, Zeist, Netherlands.
Filed July 30, 1952, Serial No. 633,265. Published Sept. 22, 1953. Class 13.

583,621. Grooved Phonograph Records. Rosario Musarra, doing business under the name Akron Accordian Center, Akron, Ohio.
Filed July 31, 1952, Serial No. 633,476. Published Sept. 22, 1953. Class 36.

583,622. Door and Garage Door Hardware Other Than Locks, Etc. Sidney L. Hechinger, trading as the Hechinger Company, Washington, D. C.
Filed Aug. 15, 1952, Serial No. 633,980. Published Sept. 8, 1953. Class 13.

583,623. Blouses, Underwear, and Sleeping Garments—Namely, Pajamas, Sleeping Gowns, Shortie Gowns, and Bed Jackets for Ladies and Children. Wolverine Knitting Mills, Bay City, Mich.
Filed Aug. 18, 1952, Serial No. 634,131. Published July 28, 1953. Class 39.

583,624. Printed Decalcomanias Used as a Protective Covering for Gummed Paper Strips Displaying Identification Symbols. Modern Displays, Detroit, Mich.
Filed Aug. 19, 1952, Serial No. 634,153. Published Sept. 15, 1953. Class 38.

583,625. Grooved Phonograph Records. Dance Records, Inc., New York, N. Y.
Filed Sept. 17, 1952, Serial No. 635,349. Published Sept. 22, 1953. Class 36.

583,626. Daily Newspaper. The Post Printing and Publishing Company, Denver, Colo.
Filed Sept. 18, 1952, Serial No. 635,433. Published Sept. 15, 1953. Class 38.

583,627. Canned Fruits, Canned Vegetables, Canned Berries, Frozen Fresh Fruits, Frozen Fresh Vegetables, and Frozen Fresh Berries. United Growers, Inc., Salem, Oreg.
Filed Sept. 26, 1952, Serial No. 635,860. Published Sept. 22, 1953. Class 46.

583,628. Washers (the Type Used With Nuts and Bolts) and More Specifically Lock Washers. The Mellowes Company, Milwaukee, Wis.
Filed Oct. 3, 1952, Serial No. 636,137. Published Sept. 15, 1953. Class 13.

583,629. Globe Valves, Return Valves, Angle Valves, Universal Valves, Three Port Single Actuator Valves, Three Port Double Actuator Valves, Four Port Triple Actuator Valves, Angle Male Connections. George W. Dahl Company, Inc., Bristol, R. I.
Filed Oct. 4, 1952, Serial No. 636,167. Published Sept. 8, 1953. Class 13.

583,630. Sweaters for Men, Women, Boys, and Girls. Avonshire Knitting Mills, Inc., Philadelphia, Pa.
Filed Oct. 6, 1952, Serial No. 636,194. Published July 28, 1953. Class 39.

583,631. Men's Underwear—Namely, Shorts and Briefs. Duofold, Inc., Mohawk, N. Y.
Filed Oct. 9, 1952, Serial No. 636,413. Published July 28, 1953. Class 39.

583,632. Valves for Tempering Water in Toilet Tanks and the Like. Vern J. Hively, doing business as Alliance Valve Company, Alliance, Ohio.
Filed Oct. 10, 1952, Serial No. 636,479. Published Sept. 15, 1953. Class 13.

583,633. Hosiery and Slips, Panties, Underwear, Pajamas, and Sleeping Robes, All for Women. Morris Poupko, doing business under the name and style of Williamstown Hosiery Mills, Williamstown, N. J.
Filed Oct. 16, 1952, Serial No. 636,733. Published July 28, 1953. Class 39.

583,634. Half Round Roofing Gutter, O. G. Roofing Gutter, Etc. Tennison Brothers, Incorporated, Memphis, Tenn., and Texarkana, Ark.
Filed Oct. 23, 1952, Serial No. 637,091. Published Sept. 22, 1953. Class 12.

583,635. Books Whether Illustrated or Not. Harlia, Incorporated, Miami, Fla.
Filed Oct. 24, 1952, Serial No. 637,126. Published Sept. 8, 1953. Class 38.

583,636. Water Color Brushes. Binney & Smith Company, New York, N. Y.
Filed Oct. 28, 1952, Serial No. 637,262. Published Sept. 22, 1953. Class 29.

583,637. Expanded and Spherulized Clay Products Used as Aggregates in Cementitious Building Material. Kanium Corporation, Chicago, Ill.
Filed Oct. 31, 1952, Serial No. 637,447. Published Sept. 22, 1953. Class 12.

583,638. Men's and Boy's Sweat Shirts, Sweat Pants, Gym Shirts, Gym Shorts, T Shirts, Swimming Trunks, Athletic Shirts, Athletic Pants, Sport Shorts, and Leisure Shorts. Betty Brooks Co., Huntington Park, Calif.
Filed Nov. 7, 1952, Serial No. 637,749. Published June 30, 1953. Class 39.

583,639. Portable Grill Made of Metal. Atlanta Stove Works, Inc., Atlanta, Ga.
Filed Nov. 21, 1952, Serial No. 638,390. Published Aug. 4, 1953. Class 34.

583,640. Metallic Cable Racks for the Support of Conductor Cables. Dresser Stacey Company, Columbus, Ohio.
Filed Nov. 21, 1952, Serial No. 638,406. Published Sept. 22, 1953. Class 13.

583,641. Metallic Cable Racks for the Support of Conductor Cables. Dresser Stacey Company, Columbus, Ohio.
Filed Nov. 21, 1952, Serial No. 638,407. Published Sept. 22, 1953. Class 13.

583,642. Apparatus for Testing the Operating Characteristics Including Acceleration and Deceleration of a Vehicle. Autosphere Corporation, New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,466. Published July 28, 1953. Class 26.

583,643. Harmonicas. M. Hohner, Inc., New York, N. Y.
Filed Nov. 25, 1952, Serial No. 638,581. Published Sept. 15, 1953. Class 36.

583,644. Three-Dimensional Construction Toy. Harry S. Rosenbloom, Chicago, Ill.
Filed Nov. 26, 1952, Serial No. 638,664. Published Aug. 25, 1953. Class 22.

583,645. Tuning-Pins for Pianos. W. Wagner, Jr., Gesellschaft mit beschränkter Haftung, Plettenberg, Germany.
Filed Nov. 26, 1952, Serial No. 638,678. Published Sept. 22, 1953. Class 36.

583,646. Nuts and Bolts, Wood Screws, Nails, Cotter Pins, Lock Washers, and Flat Washers. Draper & Emerick, Pittsburgh, Pa.
Filed Nov. 28, 1952, Serial No. 638,701. Published Sept. 22, 1953. Class 13.

583,647. Grooved Phonograph Records of Symphonic Music. Vox Productions, Inc., New York, N. Y.
Filed Nov. 28, 1952, Serial No. 638,749. Published Sept. 22, 1953. Class 36.

583,648. Heat Exchangers Fabricated From Carbon or Graphite Blocks Which Are Perforated by Rows of Parallel Holes or From Assembled Slabs of Carbon and Graphite Containing Carbon and Graphite Packing Elements of Diverse Shape. Delanium Carbon Corporation, New York, N. Y.
Filed Nov. 29, 1952, Serial No. 638,757. Published Aug. 4, 1953. Class 34.

583,649. Heat Exchangers Fabricated From Carbon or Graphite Blocks, Etc. Delanium Carbon Corporation, New York, N. Y.
Filed Nov. 29, 1952, Serial No. 638,758. Published Aug. 4, 1953. Class 34.

583,650. Technical Manuals and Replacement Sheets Therefor, Issued From Time to Time. The Howard Company, Inc., Indianapolis, Ind.
Filed Nov. 29, 1952, Serial No. 638,770. Published Sept. 15, 1953. Class 38.

583,651. Compounds Used as Soil Amendments and Soil Correctives. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif.
Filed Dec. 2, 1952, Serial No. 638,831. Published Sept. 22, 1953. Class 10.

583,652. Harmonicas. M. Hohner, Inc., New York, N. Y.
Filed Dec. 2, 1952, Serial No. 638,852. Published Sept. 8, 1953. Class 36.

583,653. Books. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,503. Published Sept. 1, 1953. Class 38.

583,654. Grooved Phonograph Records. Arthur J. Petivan, Jr., doing business as Sunset Music Publications, New Orleans, La.
Filed Dec. 16, 1952, Serial No. 639,588. Published Sept. 22, 1953. Class 36.

583,655. Reed and Pipe Organs. Henry Hancock, trading as Rieger Organs, New York, N. Y.
Filed Dec. 19, 1952, Serial No. 639,755. Published Sept. 8, 1953. Class 36.

583,656. Harmonicas. M. Hohner, Inc., New York, N. Y.
Filed Dec. 23, 1952, Serial No. 639,933. Published Sept. 22, 1953. Class 36.

583,657. Pre-Sensitized Plates. Azoplate Corporation, Summit, N. J.
Filed Dec. 30, 1952, Serial No. 640,141. Published Aug. 11, 1953. Class 26.

583,658. Table Tops. Laminated Veneers Co., Richmond Hill, N. Y.
Filed Jan. 9, 1953, Serial No. 640,570. Published Sept. 15, 1953. Class 32.

583,659. Electrical Metallic Tubing and Standard Conduits. International Rolling Mill Products Corporation, Chicago, Ill.
Filed Jan. 12, 1953, Serial No. 640,643. Published Sept. 1, 1953. Class 21.

583,660. Electrical Metallic Tubing and Standard Conduits. International Rolling Mill Products Corporation, Chicago, Ill.
Filed Jan. 12, 1953, Serial No. 640,644. Published Sept. 1, 1953. Class 21.

583,661. Motion Picture Projectors and Projection Screens. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Jan. 15, 1953, Serial No. 640,788. Published July 7, 1953. Class 26.

583,662. Fish Landing Net. Edmund C. Crisfield, Gorham, N. Y.
Filed Jan. 16, 1953, Serial No. 640,850. Published Aug. 25, 1953. Class 22.

583,663. Christmas Tree Decorations—Namely, Icicles; Artificial Snow; Garlands; Etc. National Tinsel Manufacturing Company, Manitowoc, Wis.
Filed Jan. 21, 1953, Serial No. 641,077. Published Sept. 1, 1953. Class 50.

583,664. Ophthalmic Mountings and Parts thereof. Willson Products, Inc., Reading, Pa.
Filed Jan. 21, 1953, Serial No. 641,109. Published July 21, 1953. Class 26.

583,665. Electrical Driving Units for Dyeing Machines. F. Smith & Co. (Whitworth) Limited, Rochdale, England.
Priority under Sec. 44(d). British Registration No. 712,918, filed Dec. 5, 1952.
Filed Jan. 23, 1953, Serial No. 641,213. Published Sept. 8, 1953. Class 21.

583,666. Publication Containing a Series of Recipes Published Approximately Monthly. Helms Bakeries, Los Angeles, Calif.
Filed Jan. 26, 1953, Serial No. 641,297. Published Sept. 8, 1953. Class 38.

583,667. Monthly Publication Relating to Bakery Products. Helms Bakeries, Los Angeles, Calif.
Filed Jan. 26, 1953, Serial No. 641,299. Published Sept. 1, 1953. Class 38.

583,668. Picture Hangers. The Stavert Company, Inc., Cambridge, Mass.
Filed Jan. 29, 1953, Serial No. 641,525. Published Sept. 22, 1953. Class 13.

583,669. Series of Stereoscopic Motion Picture Films, Creating an Illusion of Three Dimensions, Synchronized With a Stereophonic-Type Sound. Universal Pictures Company, Inc., New York, N. Y.
Filed Jan. 29, 1953, Serial No. 641,532. Published July 21, 1953. Class 26.

583,670. Waterproof and Airproof Bags Made of Polyethylene. Howard Manufacturing Corporation, Council Bluffs, Iowa.
Filed Feb. 4, 1953, Serial No. 641,725. Published Aug. 18, 1953. Class 2.

583,671. Twine. The Brantford Cordage Company, Limited, Brantford, Ontario, Canada.
Filed Feb. 10, 1953, Serial No. 642,011. Published Aug. 4, 1953. Class 7.

583,672. Polyethylene Insulated Electric Wires and Cables. Midland Wire Corporation, Tiffin, Ohio.
Filed Feb. 10, 1953, Serial No. 642,040. Published Sept. 1, 1953. Class 21.

583,673. Neoprene Insulated Electric Wires and Cables. Midland Wire Corporation, Tiffin, Ohio.
Filed Feb. 10, 1953, Serial No. 642,041. Published Sept. 1, 1953. Class 21.

583,674. Starting Fuel for Compression-Ignited Engines Containing Volatile Organic Compounds Which Are Readily Ignitible by Compression at Low Temperatures. Standard Oil Company of California, Wilming, Del., and San Francisco, Calif.
Filed Feb. 12, 1953, Serial No. 642,174. Published Aug. 18, 1953. Class 15.

583,675. Aerosol Inhalation in Bronchopulmonary Disorders. Winthrop-Stearns Inc., New York, N. Y.
Filed Feb. 12, 1953, Serial No. 642,193. Published Aug. 18, 1953. Class 18.

583,676. Daily and Sunday Comic Strip. The McNaught Syndicate, Inc., New York, N. Y.
Filed Feb. 16, 1953, Serial No. 642,293. Published Sept. 1, 1953. Class 38.

583,677. Binder Twine and Baler Twine. The Bob Stone Cordage Company, Churiton, Iowa.
Filed Feb. 16, 1953, Serial No. 642,317. Published July 28, 1953. Class 7.

583,678. House Organ Type Publication. A. Asch, Incorporated, New York, N. Y.
Filed Feb. 17, 1953, Serial No. 642,338. Published Sept. 1, 1953. Class 38.

583,679. Periodical Publications of Abstracts of Articles From Current Periodicals, Technical Society Publications, and Pamphlets. Robert M. Poe, doing business as E. Holley Poe Associates, Stamford, Conn.
Filed Feb. 19, 1953, Serial No. 642,489. Published Sept. 15, 1953. Class 38.

583,680. Domestic Water Heaters. Pennsylvania Range Boiler Co., Philadelphia, Pa.
Filed Feb. 25, 1953, Serial No. 642,769. Published Aug. 4, 1953. Class 34.

583,681. Instant Coffee. Standard Brands Incorporated, New York, N. Y.
Filed Feb. 25, 1953, Serial No. 642,779. Published Sept. 22, 1953. Class 46.

583,682. Metal Hydraulic Tube Fittings. Flodar Corporation, Cleveland, Ohio.
Filed Feb. 25, 1953, Serial No. 642,923. Published Sept. 15, 1953. Class 13.

583,683. Fresh and Frozen Shrimp. Booth Fisheries Corporation, Chicago, Ill.
Filed Mar. 2, 1953, Serial No. 642,935. Published Sept. 22, 1953. Class 46.

583,684. Gas Water Heaters. Rheem Manufacturing Company, Richmond, Calif.
Filed Mar. 2, 1953, Serial No. 642,995. Published Aug. 18, 1953. Class 34.

583,685. Paint Bucket Supporting Bracket for Use in Conjunction With Ladders. Colonial Sales Corporation, Columbus and Worthington, Ohio.
Filed Mar. 3, 1953, Serial No. 643,030. Published Sept. 15, 1953. Class 13.

583,686. Lubricating Oil. Paragon Oil Company, Inc., Brooklyn, N. Y.
Filed Feb. 18, 1953, Serial No. 643,059. Published Aug. 18, 1953. Class 15.

583,687. Frames, Supporting Brackets, and Clamps for Use in Installing Sink Bowls in Drain Boards and Electric Burner Plates and Wooden Chopping Blocks in Kitchen Counter Tops. Vance Industries, Inc., Evanston, Ill.
Filed Mar. 5, 1953, Serial No. 643,198. Published Sept. 15, 1953. Class 13.

583,688. Medicated Mouthwash. The Lambert Company, St. Louis, Mo.
Filed Mar. 6, 1953, Serial No. 643,232. Published Aug. 18, 1953. Class 18.

583,689. Pharmaceutical Preparation for Sedative and Hypnotic Purposes. Ames Company, Inc., Elkhart, Ind.
Filed Mar. 9, 1953, Serial No. 643,265. Published Aug. 18, 1953. Class 18.

583,690. Radios. Roger M. Nordby, Evanston, Ill.
Filed Mar. 9, 1953, Serial No. 643,356. Published Sept. 8, 1953. Class 21.

583,691. Ear Drops. White Laboratories, Inc., Kenilworth, N. J.
Filed Mar. 9, 1953, Serial No. 643,390. Published Aug. 25, 1953. Class 18.

583,692. Daily and Sunday Newspaper Feature. The McNaught Syndicate, Inc., New York, N. Y.
Filed Mar. 10, 1953, Serial No. 643,431. Published Sept. 15, 1953. Class 38.

583,693. Lubricating Oil. Societe Commerciale des Produits du Petrole, Paris (Seine), France.
Filed Mar. 10, 1953, Serial No. 643,437. Published Aug. 25, 1953. Class 15.

583,694. Fresh and Frozen Shrimp. Booth Fisheries Corporation, Chicago, Ill.
Filed Mar. 11, 1953, Serial No. 643,460. Published Sept. 22, 1953. Class 46.

583,695. Antibiotic Anesthetic Troches. Commercial Solvents Corporation, New York, N. Y.
Filed Mar. 12, 1953, Serial No. 643,536. Published Aug. 25, 1953. Class 18.

583,696. Vitamin Compounds and Vitamin Preparations. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Mar. 16, 1953, Serial No. 643,668. Published Aug. 25, 1953. Class 18.

583,697. Daily Newspaper. The Houston Chronicle Publishing Co., Houston, Tex.
Filed Mar. 16, 1953, Serial No. 643,686. Published Sept. 1, 1953. Class 38.

583,698. Cortisone Acetate Compound for General Hormone Therapy. Schenley Laboratories, Inc., New York, N. Y.
Filed Mar. 23, 1953, Serial No. 644,068. Published Sept. 8, 1953. Class 18.

583,699. Combination of a Sedative and Ephedrine. Schenley Laboratories, Inc., New York, N. Y.
Filed Mar. 23, 1953, Serial No. 644,070. Published Sept. 22, 1953. Class 18.

583,700. Somnifacient Product. Schenley Laboratories, Inc., New York, N. Y.
Filed Mar. 23, 1953, Serial No. 644,071. Published Sept. 22, 1953. Class 18.

583,701. Fishing Tackle—Namely, Fly Hooks, Streamer Fly Hooks, Swivels, Fishing Hooks, and Artificial Fishing Lures. Walrus Products, New York, N. Y.
Filed Mar. 23, 1953, Serial No. 644,081. Published Aug. 25, 1953. Class 22.

583,702. Books. Bantam Books, Inc., New York, N. Y.
Filed Mar. 24, 1953, Serial No. 644,094. Published Sept. 1, 1953. Class 38.

583,703. Wheat Flour. International Milling Company, Minneapolis, Minn.
Filed Mar. 27, 1953, Serial No. 644,305. Published Sept. 22, 1953. Class 46.

583,704. Wheat Flour. International Milling Company, Minneapolis, Minn.
Filed Mar. 27, 1953, Serial No. 644,306. Published Sept. 15, 1953. Class 46.

583,705. Wheat Flour, Barley Flour, Rye Flour, Cornmeal, Corn Flour, and Rolled Oats. International Milling Company, Minneapolis, Minn.
Filed Mar. 27, 1953, Serial No. 644,308. Published Sept. 15, 1953. Class 46.

583,706. Wheat Flour. International Milling Company, Minneapolis, Minn.
Filed Mar. 27, 1953, Serial No. 644,314. Published Sept. 15, 1953. Class 46.

583,707. Wheat Flour. International Milling Company, Minneapolis, Minn.
Filed Mar. 27, 1953, Serial No. 644,317. Published Sept. 15, 1953. Class 46.

583,708. Wheat Flour. International Milling Company, Minneapolis, Minn.
Filed Mar. 27, 1953, Serial No. 644,318. Published Sept. 15, 1953. Class 46.

583,709. Wheat Flour. International Milling Company, Minneapolis, Minn.
Filed Mar. 27, 1953, Serial No. 644,319. Published Sept. 15, 1953. Class 46.

583,710. Canned Fish Bait. Joyce D. Ashley, doing business under the names Cotton Ashley and Ashley Bait Co., Macksville, Kans.
Filed Mar. 30, 1953, Serial No. 644,382. Published Aug. 25, 1953. Class 22.

583,711. Coffee. Standard Brands Incorporated, New York, N. Y.
Filed Mar. 30, 1953, Serial No. 644,463. Published Sept. 22, 1953. Class 46.

583,712. Automotive and Industrial Lubricating Equipment—namely, Tubing, Etc. The Aro Equipment Corporation, Bryan, Ohio.
Filed Apr. 1, 1953, Serial No. 644,532. Published Sept. 8, 1953. Class 13.

583,713. Shower Cabinets. Fiat Metal Manufacturing Company, Franklin Park, Ill.
Filed Apr. 6, 1953, Serial No. 644,749. Published Sept. 22, 1953. Class 13.

583,714. Constant Level Oil Control Valve for Oil-Fired Heater. Platt Products Corporation, Lansing, Mich.
Filed Apr. 6, 1953, Serial No. 644,783. Published Sept. 22, 1953. Class 13.

583,715. Magazine Published Monthly. Trailercoach Dealers National Association, Chicago, Ill.
Filed Apr. 6, 1953, Serial No. 644,810. Published Sept. 1, 1953. Class 38.

583,716. Grooved Phonograph Records. Gamma Records, Inc., St. Louis, Mo.
Filed Apr. 9, 1953, Serial No. 644,969. Published Sept. 22, 1953. Class 36.

583,717. Staples. Pasiode Company, Chicago, Ill.
Filed Apr. 9, 1953, Serial No. 645,004. Published Sept. 22, 1953. Class 13.

583,718. Brackets for Use in Securing Bed Headboards to Bedframes. The Harvard Manufacturing Company, Cleveland, Ohio.
Filed Apr. 13, 1953, Serial No. 645,146. Published Sept. 22, 1953. Class 13.

583,719. Publication Published Daily. Northwest Publications, Inc., St. Paul, Minn.
Filed Apr. 2, 1953, Serial No. 645,214. Published Sept. 8, 1953. Class 38.

583,720. Evaporated Goat Milk. California Goat Dairymen's Assn., Inc., Modesto, Calif.
Filed Apr. 14, 1953, Serial No. 645,228. Published Sept. 1, 1953. Class 46.

583,721. Magazine Published Periodically. Dell Publishing Company, Inc., New York, N. Y.
Filed Apr. 14, 1953, Serial No. 645,234. Published Sept. 15, 1953. Class 38.

583,722. House Magazine Issued and Distributed From Time to Time. Fruit Growers Express Company, Washington, D. C.
Filed Apr. 14, 1953, Serial No. 645,240. Published Sept. 8, 1953. Class 38.

583,723. Books. Graphic Publishing Co., Inc., Hasbrouck Heights, N. J.
Filed Apr. 14, 1953, Serial No. 645,242. Published Sept. 8, 1953. Class 38.

583,724. Chemically Treated Polishing Cloths. Hygiene Research, Inc., New York, N. Y.
Filed Apr. 16, 1953, Serial No. 645,417. Published Sept. 8, 1953. Class 29.

583,725. Candy. M. J. Holloway & Co., Chicago, Ill
Filed Apr. 22, 1953, Serial No. 645,709. Published Sept. 15, 1953. Class 46.

583,726. Baked and Fried Pies. Howard L. Griffin, doing business under the trade name of Griffin Baking Company, Greensboro, N. C.
Filed May 5, 1953, Serial No. 646,711. Published Sept. 8, 1953. Class 46.

583,727. Baked and Fried Pies. Howard L. Griffin, doing business under the trade name of Griffin Baking Company, Greensboro, N. C.
Filed May 5, 1953, Serial No. 646,712. Published Sept. 8, 1953. Class 46.

583,728. Lubricating Oils. Sun Oil Company, Philadelphia, Pa.
Filed May 22, 1953, Serial No. 647,563. Published Sept. 29, 1953. Class 15.

583,729. Polishing Cloths. The Las-Stik Manufacturing Co., Hamilton, Ohio.
Filed June 2, 1953, Serial No. 648,111. Published Sept. 22, 1953. Class 29.

583,730. Polishing Cloths. The Las-Stik Manufacturing Co., Hamilton, Ohio.
Filed June 2, 1953, Serial No. 648,112. Published Sept. 22, 1953. Class 29.

Service Marks

583,731. Beauty Shop Services—Namely, Hair Styling, Hair Cutting, Hair Coloring, Permanent Waving, Manicuring, Facial Treatments, Weight Reducing Treatments, Skin Therapy, and Skin Treatments. Consolidated Cosmetics, Chicago, Ill., assignor, by mesne assignments, to Les Parfums de Dana, Inc., New York, N. Y., a corporation of New York.
Filed July 28, 1947, Serial No. 529,749. Published Sept. 15, 1953. Class 100.

583,732. Services Rendered to Automotive Vehicles—Namely, Crankcase Draining and Flushing; Chassis Lubrication, Etc. The Pure Oil Company, Chicago, Ill.
Filed July 13, 1949, Serial No. 581,890. Published Apr. 28, 1953. Class 103.

583,733. Advertising Services—Namely, Creating, Planning, Writing, and Producing Direct Mail Campaigns, Including Idea, Art Work, Copy. Bourke, Holland & Miller, Inc., New York, N. Y., now by change of name Envoys, Incorporated.
Filed Apr. 21, 1950, Serial No. 596,069. Published Sept. 15, 1953. Class 101.

583,734. Advertising the Goods of Others, Which Comprise Children's Wear, Through the Medium of Shows and Exhibitions Promoted Periodically in Different Cities of Different States of the United States. Baltimore-Washington Childrens Wear Show, Inc., Baltimore, Md.
Filed June 29, 1950, Serial No. 599,925. Published Sept. 15, 1953. Class 101.

583,735. Lodgings for Guests in Motor Courts. Tourinns, Incorporated, New York, N. Y.
Filed Aug. 24, 1951, Serial No. 618,065. Published Sept. 15, 1953. Class 100.

583,736. Lodgings for Guests in Motor Courts. Tourinns, Incorporated, New York, N. Y.
Filed Aug. 24, 1951, Serial No. 618,066. Published Sept. 15, 1953. Class 100.

583,737. Organizing of Chapters and Alumni Groups in a National Fraternity and Maintaining Membership Therein, and Furthering the Civic and Educational Ideals Thereof. The Fraternity of Phi Gamma Delta, Washington, D. C.
Filed Aug. 16, 1952, Serial No. 633,287. COLLECTIVE MARK. Published Sept. 15, 1953. Class 100.

583,738. Commercial, Savings, Loan and Trust Department Banking Services. Bank of America National Trust and Savings Association, San Francisco, Calif.
Filed Sept. 23, 1952, Serial No. 635,627. Published Sept. 15, 1953. Class 102.

583,739. Entertainment Services for School Children Presented by Means of Program Broadcasts From Time to Time, of Children's Stories, Adventure Sequences, and Songs. Arthur-Sampson Enterprises, Inc., Cincinnati, Ohio.
Filed Jan. 22, 1953, Serial No. 641,161. Published Sept. 22, 1953. Class 107.

583,740. Underwriting of Group Health and Accident Insurance. Continental Casualty Company, Chicago, Ill.
Filed Jan. 23, 1953, Serial No. 641,175. Published Sept. 15, 1953. Class 102.

583,741. Treating Textile Fabrics of Manufacturers to Control Shrinkage and Increase Fastness of Color in Washing. Associated Dye & Print Co. Inc., Paterson, N. J.
Filed Feb. 3, 1953, Serial No. 641,664. Published Sept. 22, 1953. Class 106.

583,742. Entertainment Service Through the Medium of Television Audience Participation Programs. Franklin L. Lederach, doing business as Eastern Television Productions, Philadelphia, Pa.
Filed Apr. 29, 1953, Serial No. 646,144. Published Sept. 22, 1953. Class 107.

Collective Marks

583,743. Cast Iron Soil Pipe and Pipe Fittings. The Cast Iron Soil Pipe Institute, Washington, D. C.
Filed Apr. 6, 1953, Serial No. 644,732. Published Sept. 22, 1953. Class 13.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

583,744. (Class 26. Measuring and Scientific Appliances.) The Lufkin Rule Company, Saginaw, Mich. Original filed, act of 1946, Principal Register, Jan. 10, 1949; amended to application, Supplemental Register, Sept. 28, 1953, Serial No. 571,907.

CHROME CLAD

Applicant claims ownership of Registration No. 400,035.
For Micrometers.
Claims use since Nov. 30, 1948.

583,745. (Class 51. Cosmetics and Toilet Preparations.) Max Factor & Co., Hollywood, Calif. Original filed, act of 1946, Principal Register, Dec. 3, 1949; amended to application, Supplemental Register, Nov. 13, 1951, Serial No. 588,756.

WORLD OF BEAUTY

For Cosmetics in the Nature of Lotions, Powder, Cake Make-Up, Lipstick, Moist Rouge, Dry Rouge, Make-Up Cream, Cleansing Cream, and Make-Up Foundation.
Claims use since Oct. 28, 1949.

583,746. (Class 26. Measuring and Scientific Appliances.) Frank Distaso, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Mar. 9, 1950; amended to application, Supplemental Register, Apr. 25, 1952, Serial No. 593,654.

EGG-O-METER

For Tallying Device Particularly Adapted to the Recording of Egg Production From Individual Hen Cages.
Claims use since Dec. 27, 1949.

583,747. (Class 26. Measuring and Scientific Appliances.) Technicon Chromatography Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, May 12, 1950; amended to application, Supplemental Register, Apr. 11, 1952, Serial No. 597,363.

TIME/FLOW

For Automatically Operable Apparatus for Collecting Fractions or Samples of Predetermined Volume of Liquids in a Plurality of Receptacles.
Claims use since Apr. 14, 1950.

583,748. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Walker-Neer Machine Company, Wichita Falls, Tex. Original filed, act of 1946, Principal Register, June 6, 1950; amended to application, Supplemental Register, June 12, 1952, Serial No. 598,694.

WALKER-NEER

For Spudders, Clean-Out Machines, Rotary Rigs, Winches, and Tool Hoists.
Claims use since Apr. 29, 1946.

583,749. (Class 26. Measuring and Scientific Appliances.) V. & E. Manufacturing Co., Pasadena, Calif. Original filed, act of 1946, Principal Register, Feb. 7, 1951; amended to application, Supplemental Register, Sept. 22, 1952, Serial No. 609,749.

ORTHO

For Drafting Ruling Pens.
Claims use since Jan. 5, 1951.

583,750. (Class 26. Measuring and Scientific Appliances.) Linguaphone Institute Limited, London, England. Original filed, act of 1946, Principal Register, Feb. 21, 1951; amended to application, Supplemental Register, Aug. 28, 1952, Serial No. 610,367.

Linguafilm

Applicant claims ownership of British Registration No. B685,886, dated January 27, 1950.

For Motion Picture Films for Reproducing Sound and Speech for Teaching Languages.

583,751. (Class 21. Electrical Apparatus, Machines, and Supplies.) Sprague Electric Company, North Adams, Mass. Original filed, act of 1946, Principal Register, Nov. 19, 1951; amended to application, Supplemental Register, June 11, 1953, Serial No. 621,428.

THRU-PASS

Applicant claims ownership of Registrations Nos. 415,586 and 533,169.

For Electrical Condensers.

Claims use since November 2, 1951.

583,752. (Class 46. Foods and Ingredients of Foods.) Pražský Průmysl Masný, Národní Podnik, Prague, Czechoslovakia. Original filed, act of 1946, Principal Register, Dec. 27, 1951; amended to application, Supplemental Register, Nov. 14, 1952, Serial No. 622,908.



Applicant claims ownership of Czechoslovakian Registrations Nos. 150,668, dated Oct. 4, 1951, and 103,936.

For Canned Cooked Ham.

583,753. (Class 26. Measuring and Scientific Appliances.) Zylite Products Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 2, 1952; amended to application, Supplemental Register, Apr. 10, 1953, Serial No. 629,136.

JEWEL-LACE

For Eyeglass Frames.

Claims use since Feb. 14, 1952.

583,754. (Class 26. Measuring and Scientific Appliances.) Zylite Products Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 2, 1952; amended to application, Supplemental Register, Apr. 10, 1953, Serial No. 629,137.

METALACE

For Eyeglass Frames.

Claims use since September 1951.

583,755. (Class 46. Foods and Ingredients of Foods.) Standard Brands Incorporated, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 10, 1952; amended to application, Supplemental Register, Sept. 10, 1953, Serial No. 636,501.

TART-O-CREAM

Applicant claims ownership of Registration No. 83,689.

For Acid Salt for Use in Angel Food Cake and Other Bakery Products.

Claims use since Aug. 27, 1952.

583,756. (Class 18. Medicines and Pharmaceutical Preparations.) Brewer & Company, Inc., Worcester, Mass. Original filed, act of 1946, Principal Register, Dec. 5, 1952; amended to application, Supplemental Register, Sept. 1, 1953, Serial No. 639,012.

NO-Na-CARB

For Sodium-Free Effervescent Antacid for Human Consumption.

Claims use since May 23, 1952.

583,757. (Class 6. Chemicals and Chemical Compositions.) Robert H. Acock, Austin, Tex. Original filed, act of 1946, Principal Register, Feb. 16, 1953; amended to application, Supplemental Register, Sept. 28, 1953, Serial No. 642,253.



For Sulphur.

Claims use since Aug. 1, 1952.

583,758. (Class 26. Measuring and Scientific Appliances.) Bell & Howell Company, Chicago, Ill. Filed June 9, 1953, Serial No. 648,479.

SOUNDSTRIPE

For Motion Picture Film Provided With Magnetic Sound Track.

Claims use since May 16, 1952.

TRADE-MARK REGISTRATIONS RENEWED

92,493. "DIAMOND PACKAGE DYES" ETC. AND DESIGN. Registered July 8, 1913. Wells & Richardson Company, Burlington, Vt. Re-renewed July 8, 1953, to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Dyes. Class 6.

93,425. FILTRENE. Registered Sept. 16, 1913. Chesebrough Manufacturing Company, Consolidated, New York, N. Y., a corporation of New York. Re-renewed Sept. 16, 1953. Lubricating Oil. Class 15.

93,819. "PRORSUM" ETC. AND DESIGN. Registered Oct. 21, 1913. Burberrys. Re-renewed Oct. 21, 1953, to Burberrys Limited, London, England, a corporation organized under the laws of Great Britain. Suits, Overcoats, Shirts, and Gaiters for General Sporting and Military Wear for Men, Women and Children. Class 39.

94,027. PEERLESS. Registered Oct. 28, 1913. The Peerless Electric Company, Warren, Ohio, a corporation of Ohio. Re-renewed Oct. 28, 1953. Electric Fan-Motors, Power-Motors, Exhaust-Fans, Rotary Converters, and Forge-Blowers. Class 21.

95,138. LILY OF FRANCE. Registered Feb. 3, 1914. O'Callaghan & Fedden, New York, N. Y. Re-renewed Feb. 3, 1954, to Howard C. Mohn Hosiery Co., Reading, Pa., a partnership. Stockings. Class 39.

95,469. STICTUIT. Registered Feb. 17, 1914. Peters Brothers, New York, N. Y. Re-renewed Feb. 17, 1954, to Peters Bros. Rubber Co. Inc., Brooklyn, N. Y., a corporation of New York. Lining-Cloth. Class 42.

95,547. "GENEVA" ETC. AND DESIGN. Registered Feb. 24, 1914. John De Kuyper & Son, Rotterdam, Netherlands. Re-renewed Feb. 24, 1954, to John De Kuyper & Son, Incorporated, New York, N. Y., a corporation of New York. Gin. Class 49.

304,644. WILLAPOINT. Registered July 11, 1933. Willapoint Oysters Incorporated, Seattle, Wash., a corporation of Washington. Renewed July 11, 1953. Canned Raw Oysters and Canned Cooked Oysters. Class 46.

306,027. NEW DEAL. Registered Sept. 5, 1933. Baker Brush Co. Inc., New York, N. Y., a corporation of New York. Renewed Sept. 5, 1953. Paint Brushes. Class 29.

306,285. ST REGIS. Registered Sept. 12, 1933. Prybrands, Inc., Long Island City, N. Y. Renewed Sept. 12, 1953, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland. Razors and Razor Blades. Class 23.

307,096. UNAWARES. Registered Oct. 17, 1933. Arnold, Constable & Co., Inc. Renewed Oct. 17, 1953, to Arnold Constable Corporation, New York, N. Y., a corporation of Delaware. Corsets, Brassières, Girdles, Etc. Class 39.

307,156. SAV A FOOD. Registered Oct. 17, 1933. The Puro Co., Inc., St. Louis, Mo., a corporation of Missouri. Renewed Oct. 17, 1953. Deodorizer for Refrigerators. Class 6.

307,294. KON-O-ME. Registered Oct. 24, 1933. Western Chemical Company, St. Joseph, Mo., a co-partnership. Renewed Oct. 24, 1953. Cleaner in Powder Form for Use in Cleaning Dishes, Walls, Woodwork, Floors, Metal Surfaces and Clothes. Class 52.

307,630. HIGH RATIO. Registered Oct. 31, 1933. The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Renewed Oct. 31, 1953. Vegetable Shortening in Semi-Solid Form. Class 46.

307,711. BASCOLITE. Registered Oct. 31, 1933. Baltimore Salvage Company. Renewed Oct. 31, 1953, to Baltimore Salvage Co., Inc., Baltimore, Md., a corporation of Maryland. Ready Mixed Paints, Varnishes, and Prepared Shellacs. Class 16.

308,039. "PIC O PAC" AND DESIGN. Registered Nov. 21, 1933. Pinnacle Packing Co., Inc., Medford, Oreg., a corporation of Oregon. Renewed Nov. 21, 1953. Fresh Deciduous Fruits. Class 46.

308,292. SWANEE. Registered Nov. 28, 1933. Riverside & Dan River Cotton Mills, Inc. Renewed Nov. 28, 1953, to Dan River Mills, Incorporated, Danville, Va., a corporation of Virginia. Cotton Broadcloth Shirting in the Piece. Class 42.

308,455. ULTRA DEW. Registered Dec. 5, 1933. Marion Lambert, Inc., St. Louis, Mo. Renewed Dec. 5, 1953, to Pearson Pharmacal Company, Inc., New York, N. Y., a corporation of New York. Deodorant and Non-Perspirant. Class 51.

308,818. "SOF KURD" ETC. AND DESIGN LINED FOR GOLD. Registered Dec. 19, 1933. M & R Dietetic Laboratories, Inc., Columbus, Ohio, a corporation of Ohio. Renewed Dec. 19, 1953. Sweet Milk Powdered or Liquid. Class 46.

308,910. "INSTANT DEW" ETC. Registered Dec. 26, 1933. Marion Lambert, Inc., St. Louis, Mo. Renewed Dec. 26, 1953, to Pearson Pharmacal Company, Inc., New York, N. Y., a corporation of New York. Deodorant and Non-Perspirant. Class 51.

309,074. MEDICONE. Registered Jan. 2, 1934. Medicone Company, Inc. Renewed Jan. 2, 1954, to Medicone Company, New York, N. Y., a partnership. Pills, Tablets, Capsules, Powders, Etc. Class 18.

309,150. SCOTT'S SCRAPBOOK. Registered Jan. 2, 1934. Central Press Association, Inc. Renewed Jan. 2, 1954, to The Hearst Corporation, New York, N. Y., a corporation of Delaware. Newspaper Section. Class 38.

309,216. THE BEAUTY REPORTER. Registered Jan. 9, 1934. King Features Syndicate, Inc. Renewed Jan. 9, 1954, to The Hearst Corporation, New York, N. Y., a corporation of Delaware. Newspaper section. Class 38.

309,290. FUNNY FILMS. Registered Jan. 9, 1934. King Features Syndicate, Inc. Renewed Jan. 9, 1954, to The Hearst Corporation, New York, N. Y., a corporation of Delaware. Newspaper Cartoons. Class 38.

309,381. JASMINE. Registered Jan. 9, 1934. Houston Packing Company, Houston, Tex., a corporation of Texas. Renewed Jan. 9, 1954. Hams, Picnics, Boston Butts, Bacon, Lard, Etc. Class 46.

309,759. SPIRALATOR. Registered Jan. 30, 1934. Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware. Renewed Jan. 30, 1954. Laundry Washing Machines. Class 24.

310,006. POLORIS. Registered Feb. 6, 1934. Poloris Company, Inc., New York, N. Y. Renewed Feb. 6, 1954, to Poloris Company, Inc., Jersey City, N. J., a corporation of New Jersey. Poultices, and Tablets for the Relief of Pain and Colds. Class 18.

310,057. JOHN DE KUYPER & SON. Registered Feb. 13, 1934. John De Kuyper & Son, Rotterdam, Netherlands. Renewed Feb. 13, 1954, to John De Kuyper & Son, Incorporated, New York, N. Y., a corporation of New York. Gin. Class 49.

310,125. FORESTER. Registered Feb. 13, 1934. H. K. Porter, Inc., Everett, Mass. Renewed Feb. 13, 1954, to H. K. Porter, Inc., Somerville, Mass., a corporation of Massachusetts. Wood Cutting Tool for Brush Cutting, Pruning, Trimming, and Any General Improvement Cutting. Class 23.

310,211. BARBARA GOULD NUMBER TEN. Registered Feb. 13, 1934. Bourjois, Inc. Renewed Feb. 13, 1954, to Barbara Gould, Inc., New York, N. Y., a corporation of New York. Astringents, Astringent Cerates, Bleach Creams, Etc. Class 51.

310,242. W. A. LACEY. Registered Feb. 13, 1934. Benjamin P. Lilienthal. Renewed Feb. 13, 1954, to Haas Brothers, San Francisco, Calif., a corporation of California. Whiskey. Class 49.

310,463 SANAFRIO. Registered Feb. 27, 1934. Al. B. Hirschman, doing business as Hirschman Laboratories. Renewed Feb. 27, 1954, to Maude Hirschman, San Pedro, Calif. Preparation for the Relief of Headache, Neuralgia, Congestion and Inflammation in Head and Chest Colds, Sore Throat, and Similar Conditions. Class 18.

310,519. DEW. Registered Feb. 27, 1934. Marion Lambert, Inc., St. Louis, Mo. Renewed Feb. 27, 1954, to Pearson Pharmacal Company, Inc., New York, N. Y., a corporation of New York. Finger Nail Polish, Finger Nail Polish Remover in Fluid Form, and Hand Lotion. Class 51.

310,545. "HINDS" AND REPRESENTATION OF LABEL LINED FOR RED. Registered Feb. 27, 1934. A. S. Hinds Co. Renewed Feb. 27, 1954, to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware. Creams, Emulsions, and Liquid Lotions for the Face, Hands, Skin and Complexion. Class 51.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

351,093. "TORPEDO" AND DESIGN. Registered Oct. 19, 1937. Creameries of America, Inc., Los Angeles, Calif. Ice Cream. Class 46. New certificate under section 7(c) issued Dec. 15, 1953, to Beatrice Foods Co., Chicago, Ill., a corporation of Delaware.

443,621. "AMERICAN HOSTESS" AND DESIGN. Registered Dec. 13, 1949. Creameries of America, Inc., doing business as Valleymaid Creameries, Los Angeles, Calif. Ice Cream. Class 46. New certificate under section 7(c) issued Dec. 15, 1953, to Beatrice Foods Co., Chicago, Ill., a corporation of Delaware.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

305,558. SEXOLOGY. Registered Aug. 22, 1933. Hugo Gernsback, New York, N. Y. Quarterly Publication. Class 38. Amended as follows: In the statement, line 3, "at 98 Park Place" is deleted and *under the name and style of Sexology Magazine at 25 West Broadway* is inserted in lieu thereof; and in line 6 "quarterly" is deleted and *monthly* is inserted in lieu thereof.

372,008. PURREY. Registered Oct. 17, 1939. Nashua Manufacturing Company, Boston, Mass. Blankets Made of Cotton, Wool, Etc. Class 42. The drawing is hereby amended to appear as follows:



502,451. MAGICAN. Registered Sept. 28, 1948. Binswanger-Henkin Industries, Memphis, Tenn. Garbage Cans. Class 2. Amended as follows: The last paragraph of the statement is deleted, and the drawing is amended to appear as follows:



544,236. SPRITE. Registered June 26, 1951. H. M. Sinclair, Jr., trustee for the Ohio partnership, The Sinclair Manufacturing Company, Toledo, Ohio. Liquid Synthetic Compound Comprising a Blend of Anionic and Non-Ionic Components Having Wetting, Degreasing and Detergent Action Adapted for Household and General Cleaning Purposes. Class 52. Corrected as follows: In the statement, column 1, line 14, for "DETERGENT" read *COMPOUND*; lines 16 and 17, for "COMPOUND" read *DETERGENT*.

556,788. REPRESENTATION OF A ROTARY UNION, ETC. Registered Mar. 25, 1952. Perfecting Service Company, Chicago, Ill. Rotary Unions Etc. Class 13. Corrected as follows: In the statement, line 8, "unions" should be *connections*.

581,066. MYVACLOR. Registered Oct. 13, 1953. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Vacuum Diffusion Pump Fluids Comprising Chlorinated Hydrocarbon Oils. Class 6. Corrected as follows: In the statement, column 2, line 4, for the registration number "443,884" read *443,844*.

Erratum

The notice of republication, under section 12(c) of the Trade-Mark Act of 1946, of Registration No. 98,803, issued August 4, 1914, in Class 4, in the name of Mulhens & Kropff, of New York, N. Y., a firm, appearing in the OFFICIAL GAZETTE of April 21, 1953, page 659, was inadvertent and is vacated.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

374,554. "FIRESIDE" AND DESIGN. Registered Jan. 16, 1940. Western Packing Corporation, New York, N. Y. Corned Beef Hash. Class 46. Canceled Nov. 2, 1953. Through Intf. No. 5016.

500,262. SOLID. Registered May 11, 1948. Lucien Lelong, Inc., Chicago, Ill. Cologne. Class 51 (formerly Class 6). Canceled Nov. 2, 1953. Canc. No. 5415.

502,202. DIXIE DEE. Registered Sept. 14, 1948. Dixie Dee Dresses, Inc., New York, N. Y. Ladies', Misses' and Junior Misses' Dresses. Class 39. Canceled Nov. 6, 1953. Canc. No. 6064.

552,293. LOCKSHIRE. Registered Dec. 18, 1951. Liberty Garment Manufacturing Co., Minneapolis, Minn. Men's and Boys' Overcoats, Topcoats, and Stormcoats. Class 39. Canceled Nov. 2, 1953. Canc. No. 5885.

558,039. WHITE VEIL. Registered Apr. 22, 1952. The Andrew Jergens Company, Cincinnati, Ohio. Perfume. Class 51. Canceled Nov. 6, 1953. Canc. No. 5925.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 50,530. Registered Mar. 20, 1906. The Livingston Seed Company, Columbus, Ohio, a corporation of Ohio. Republished by registrant.

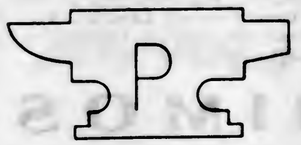


For Garden, Flower, and Field Seeds.
Claims use since July 1, 1885.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 380,080. Registered Aug. 6, 1940. Pittsburgh Pipe and Coupling Company, Allison Park, Pa., a corporation of Pennsylvania. Republished by registrant.



For Metal Pipes and Pipe Fittings.
Claims use since on or about Mar. 18, 1940.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 365,365. Registered Mar. 7, 1939. (Classified in Class 52.) Ivano Inc., Chicago, Ill. Republished by Simoniz Company, Chicago, Ill., a corporation of Delaware.
See this number in Class 52 for goods and mark.
Claims use since July 14, 1938.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 191,482. Registered Nov. 11, 1924. The E. W. Rose Company, Cleveland, Ohio, a corporation of Ohio. Republished by registrant.

ZEMO

For Preparation for the Skin and Scalp, and an Ointment for External Use, Intended To Reduce Inflammation, Relieve Itching and Other Irritations of the Skin and Scalp.
Claims use since January 1904.

Reg. No. 423,065. Registered Aug. 20, 1946. Buffington's, Incorporated, Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

LERASI

For Eye Lotion.
Claims use since March 1925.

Reg. No. 423,066. Registered Aug. 20, 1946. Buffington's, Incorporated, Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

SYNTHALOIDS

For Medicinal Throat Lozenge.
Claims use since January 1938.

Reg. No. 424,741. Registered Oct. 22, 1946. Buffington's, Incorporated, Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

DIADOL

For Diallylbarbituric Acid, Used as a Medicinal Sedative.
Claims use since May 1939.

Reg. No. 425,594. Registered Nov. 26, 1946. Buffington's, Incorporated, Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

ALLAHZOLE

For External Medicinal Application Containing Sulfathiazole and Allantoin for the Treatment of Local Bacterial Infection.
Claims use since April 1943.

Reg. No. 426,958. Registered Jan. 21, 1947. Buffington's, Incorporated, Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

CYSTORRHOL

For Internal Medication for the Treatment of Certain Urinary Infections.
Claims use since October 1927.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 370,527. Registered Aug. 29, 1939. Bonney Forge & Tool Works, Allentown, Pa., a corporation of Pennsylvania. Republished by registrant.

BONALOY

For Mechanics' Hand Tools—Namely, Wrenches.
Claims use since Mar. 6, 1939.

Reg. No. 428,051. Registered Mar. 11, 1947. W. H. Nichols & Sons, Waltham, Mass. Republished by W. H. Nichols Company, Waltham, Mass., a corporation of Massachusetts.

ni

For Hand Milling Machines and Lubrication Pumps for Use as Accessory to, or Parts of, Machinery.
Claims use since on or about Apr. 1, 1943.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 163,710. Registered Jan. 23, 1923. The Co-Operative League of the United States of America, Assoc., New York, N. Y., a corporation of New York. Republished by registrant, present address New York, N. Y., and Chicago, Ill.

For Pamphlets, Monthly Magazines, Printed Books, and Leaflets.
Claims use since May 1, 1922.

CLASS 39

CLOTHING

Reg. No. 369,866. Registered Aug. 8, 1939. Raphael Weill & Company, San Francisco, Calif., a corporation of Nevada. Republished by registrant.

Douglas Hall

The word "Douglas" is disclaimed apart from the mark as shown.
For Clothing for Men and Boys—Namely, Suits, Overcoats, Sport Coats, and Hats.
Claims use since Aug. 23, 1937.

Reg. No. 385,591. Registered Mar. 11, 1941. Moran Shoe Company, Carlyle, Ill. Republished by Moran Shoe Company, Carlyle, Ill., a corporation of Illinois.

TWINKIE

For Infants' and Children's Shoes Made of Leather and Fabric.
Claims use since June 12, 1940.

CLASS 43

THREAD AND YARN

Reg. No. 308,747. Registered Dec. 19, 1933. Cleveland Mill and Power Company, Lawndale, N. C. Republished by Cleveland Mills Company, Lawndale, N. C., a corporation of North Carolina.

MIMOSA

For Mercerized Crochet Cotton, Twine for Needle Work, Embroidery Thread, and Crochet Thread.
Claims use since on or about Oct. 20, 1932.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 305,452. Registered Aug. 15, 1933. Cloquet Creamery, Cloquet, Minn., a firm. Republished by registrant.

O·K·Brand

The word "Brand" is disclaimed apart from the mark as shown.
For Ice Cream.
Claims use since May 1921.

Reg. No. 307,590. Registered Oct. 31, 1933. Colonial Provision Co., Inc., Boston, Mass., a corporation of Massachusetts. Republished by registrant.



The representation of a ham is disclaimed apart from the mark as shown.
For Hams, Shoulders, Bacon, and Frankfurters.
Claims use since May 7, 1932.

Reg. No. 354,755. Registered Feb. 22, 1938. Ready Foods Company, Inc., Chicago, Ill. Republished by Perk Foods Co., Chicago, Ill., a corporation of Illinois.

PERK

For Canned Dog Food.
Claims use since Aug. 26, 1937.

Reg. No. 428,170. Registered Mar. 11, 1947. Pacific Coast Fruit Distributors, Los Angeles, Calif. Republished by Pacific Coast Fruit Distributors, Inc., Los Angeles, Calif., a corporation of California.

PACOAST

For Fresh Citrus Fruit.
Claims use since Apr. 7, 1946.

Reg. No. 435,842. Registered Jan. 13, 1948. Abinante & Nola Packing Co., San Jose, Calif. Republished by Abinante & Nola Packing Co., Inc., San Jose, Calif., a corporation of California.

CAMROSE

For Dried Fruits, Canned Fruits, Canned Vegetables.
Claims use since Mar. 15, 1946.

CLASS 48

MALT BEVERAGES AND LIQUORS

Reg. No. 315,873. Registered Aug. 14, 1934. San Antonio Brewing Association, San Antonio, Tex. Republished by Pearl Brewing Company, San Antonio, Tex., a corporation of Texas.

Pride

For Malt Beverages With Not More Than the Legal Alcoholic Content.
Claims use since June 1, 1897.

Reg. No. 315,875. Registered Aug. 14, 1934. San Antonio Brewing Association, San Antonio, Tex. Republished by Pearl Brewing Company, San Antonio, Tex., a corporation of Texas.

Texas Pride

For Malt Beverages With Not More Than the Legal Alcoholic Content.
Claims use since June 1, 1897.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 188,812. Registered Sept. 2, 1924. The E. W. Rose Company, Cleveland, Ohio, a corporation of Ohio. Republished by registrant.

ZEMO

For Soap.
Claims use since January 1904.

Reg. No. 365,365. Registered Mar. 7, 1939. Ivano Inc., Chicago, Ill. Republished by Simoniz Company, Chicago, Ill., a corporation of Delaware.

IVANITE

For Preparation in the Form of a Paste Used To Clean, Preserve, and Beautify Automobiles and Other Coated and Finished Surfaces by Producing a Film or Coat Thereon.
Claims use since July 14, 1938.

REISSUES

DECEMBER 15, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

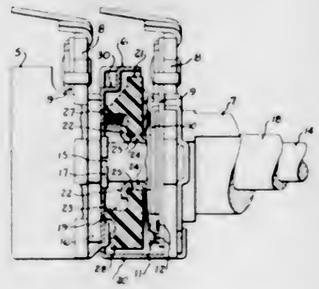
23,750

DRIVER FOR VARIABLE RESISTORS

Mervin B. Arisman, Adrian J. Vaksvik, and Ralph W. Magnusen, Elkhart, Ind., assignors to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana

Original No. 2,484,667, dated October 11, 1949, Serial No. 81,872, March 17, 1949. Application for reissue April 21, 1951, Serial No. 222,244

7 Claims. (Cl. 201—55)



9. In a variable resistance device of the type in which a resistance element is traversed by a contactor driven by a rotatable control shaft passing through a hole in a base of insulating material, and wherein the control shaft is biased endwise toward the rear of the device: a cover attached to the base and disposed over the rear face thereof, said cover having an end wall substantially normal to the shaft axis and in line with the rear end of the shaft; a driver for the contactor fixed to the shaft and situated within the housing formed jointly by the cover and the base, said driver being a molding of insulating material and having a recess in its rear face, the side wall of said recess terminating in an annular runner lying in a plane normal to the shaft axis, the front face of the driver having a portion thereof abutting the end of the shaft *and said driver having a hole therethrough coaxial with said runner with notches in the wall of the hole*; [ears extended] *lugs extending longitudinally* from the shaft through the driver and into the recess at the rear face thereof, said [ears] *lugs* being *seated in said notches and having their free end portions* bent over the bottom of the recess to hold the driver to the shaft, said recess in the rear face of the driver being deeper than the thickness of the [ears] *bent over portions of the lugs* so that no portion of said [ears] *lugs* projects beyond the annular runner, and said runner bearing against the end wall of the cover and having a smooth sliding engagement therewith whereby the end wall of the cover and the runner coact to provide a thrust bearing for limiting rearward endwise motion of the control shaft.

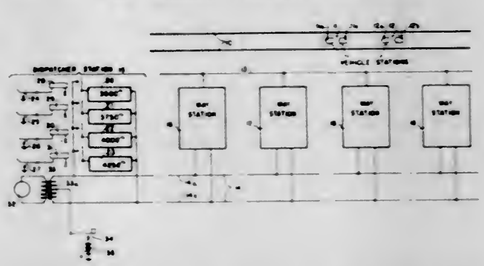
23,751

COMMUNICATION SYSTEM

Robert A. Clark, Jr., Chicago, Ill.

Original No. 2,393,291, dated January 22, 1946, Serial No. 539,672, June 10, 1944. Application for reissue April 24, 1952, Serial No. 284,121

30 Claims. (Cl. 179—82)



1. A system for communicating between a dispatcher station and a vehicle moving along a predetermined route, comprising way stations provided at spaced points along said route and each including space transmitting and receiving means, signal radiating and pickup means common to the transmitting and receiving means at said way stations, a station carried by said vehicle and including space transmitting and receiving means, a [signal] *single two-way telephone* channel commonly associating said way stations with said dispatcher station *and constituting the sole means for such purpose*, and means for selectively establishing communication channels between said dispatcher station and said vehicle station over routes which respectively include different ones of said way stations.

23,752

HOBBING MACHINE

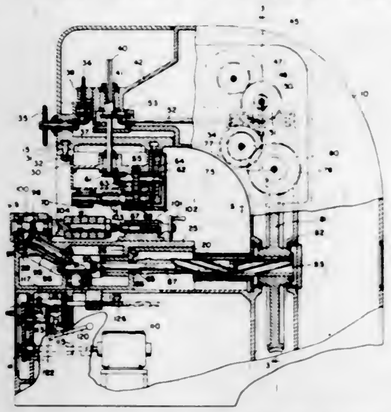
Walter S. Praeg, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan

Original No. 2,528,242, dated October 31, 1950, Serial No. 31,421, June 7, 1948. Application for reissue October 15, 1951, Serial No. 251,264

9 Claims. (Cl. 90—4)

1. A gear hobbing machine comprising a frame, having a bed thereon, a work carriage slidable on said bed, a hob support overlying said carriage and angularly adjustable about a vertical axis, a hob spindle on said hob support, gearing for rotating said hob spindle including a gear whose axis coincides with the axis of adjustment of said hob support to drive said hob spindle in all positions of angular adjustment, a work support angularly adjustable about a vertical axis on said carriage, a work spindle on said work support, gearing for rotating said work spindle including a gear whose axis coincides with the axis of adjustment of said work support to drive said work spindle in all positions of angular adjustment, said gearing including common drive means to effect timed rotation of said hob and work

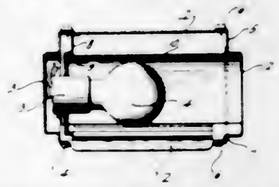
spindles, means independent of said gearing for effecting traverse of said carriage, and helically splined means in said work spindle gearing relatively axially slidable upon traverse of said carriage to superimpose a compensating rotation on said work spindle in accordance with traverse.



23,753
COATED PLASTIC PRODUCTS
Johan Bjorksten, Madison, Wis., Stuart O. Fiedler, Cleveland, Ohio, and Luther L. Yaeger, Madison, Wis., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
No Drawing. Original No. 2,578,665, dated December 18, 1951, Serial No. 730,192, February 21, 1947. Application for reissue December 17, 1952, Serial No. 326,615
12 Claims. (Cl. 260—17)

1. An article of manufacture comprising a polystyrene surface, having integrally bonded thereto a coating comprising a substance selected from the group consisting of polyethyl acrylate, polyethyl methacrylate, *polymerized butyl methacrylate, ethyl and methyl methacrylate co-polymer* and polymethyl methacrylate, said coating being deposited from a composition containing from 1 to 35% of a solvent selected from the group consisting of aliphatic ketones and esters, toluene and nitro aliphatic substances other than nitro methane, having a boiling range below 120° C.; from 2 to 45% of a solvent selected from the group consisting of nitromethane, aliphatic alcohols and lactates having one to five carbon atoms; and from 14 to 50% of a solvent selected from the group consisting of diacetone alcohol, glycol ethers and esters.

23,754
PORTABLE BED LAMP WITH ADJUSTABLE SHUTTER
Theodore C. Matson, Long Beach, and Roger N. Riewerts and Dale E. Mortensen, Bellflower, Calif.; said Riewerts and Mortensen assignors to said Matson
Original No. 2,612,599, dated September 30, 1952, Serial No. 77,126, February 18, 1949. Application for reissue February 19, 1953, Serial No. 337,900
6 Claims. (Cl. 240—11.2)



6. A portable lamp comprising, a case formed of an integral strip of material and having a semi-cylindrical front portion, louvers extending longitudinally of the case and formed in the front portion of the case, a cap closing one end of said case and secured thereto, a ring partly closing the other end of said case and secured thereto, an axially recessed bearing at the cap end region of the case, said ring providing a bearing at the other end of the case, a semi-cylindrical shutter within the case and movable over the louvers, said shutter having an outside diameter less than any inside cross section of the case and being spaced from the inner walls of the case, said shutter being substantially open at the end adjacent the cap region, the open end of said shutter being journalled in said axially recessed bearing and the other end of said shutter being rotatably supported by the bearing surface of the ring, a capped end member at the latter end of said shutter and including an annular portion extending axially outward from said ring a sufficient distance to be manually grasped for rotating said shutter, a lamp socket fixedly mounted in said case at the cap end region and axially projecting into said shutter through the open end thereof.

PLANT PATENTS

GRANTED DECEMBER 15, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,233
AZALEA PLANT
Maurits L. V. Van Zanten, Lynden, Wash.
Application April 29, 1952, Serial No. 284,895
1 Claim. (Cl. 47—60)

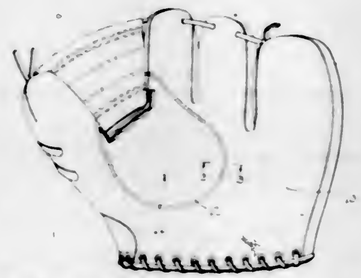
The new and distinct variety of azalea plant substantially as herein disclosed, characterized particularly by its early blooming and forcing qualities, its large size, semi-double, ten-petaled flowers of claret-rose color with darker center, and its compact growth.

PATENTS

GRANTED DECEMBER 15, 1953

GENERAL AND MECHANICAL

2,662,225
OIL RETAINER FOR GLOVES OR MITTS
Ralph F. Wheeler, Springfield, Mass., assignor to A. G. Spalding & Bros., Inc., Chicopee, Mass., a corporation of Delaware
Application July 9, 1952, Serial No. 297,837
8 Claims. (Cl. 2—19)



1. In a glove or mitt construction, an outer cover having an oiled portion of predetermined shape and a continuous barrier of oil resistant material outlining the oiled portion, said barrier extending through the cover to confine the oil within the oiled portion and prevent transfer thereof into the adjacent cover portion.

2,662,226
NECKTIE HAVING ADJUSTABLE NECKBAND AND BAND ELEMENT THEREFOR
William Mayer, Belle Harbor, N. Y.
Application July 29, 1952, Serial No. 301,569
2 Claims. (Cl. 2—155)



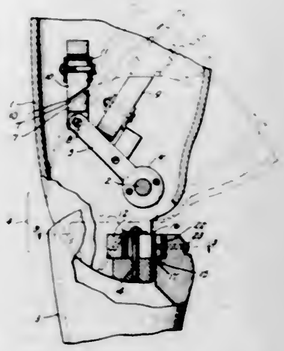
1. In an adjustable necktie having a neckband portion adapted to be doubled back upon itself, a fastener at the end of said portion, and a band carried by the neckband portion and provided with longitudinally spaced perforations, whereby said fastener may be engaged with any selected perforation to adjust the effective length of said neckband: said band comprising a unitary prefabricated element of woven fabric having a medial region of woven tubular fabric and integral single-ply marginal regions on opposite sides of said tubular medial region and having selvaged longitudinal edges on said marginal regions, said perforations being in said tubular fabric medial region.

2,662,227
PILE FABRIC
Edward D. Lacey, Fairmount, Ga., assignor to Russell-Lacey Manufacturing Company, a corporation of Georgia
Application April 4, 1950, Serial No. 153,928
6 Claims. (Cl. 2—278)



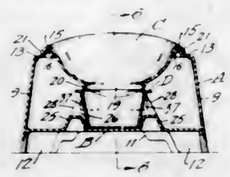
1. A pile fabric comprising a fabric base having doubled portions of a continuous pile yarn inserted therein at closely spaced intervals and extending from both faces of the fabric base in the form of loops, the adjacent loops on at least one face of said fabric base being randomly entangled and interlocked whereby withdrawal of said continuous pile yarn from said fabric base is prevented.

2,662,228
ORTHOPEDIC AND PROSTHETIC APPLIANCE
Charles H. Bennington, Wantagh, N. Y., assignor to The Modern Limb Supply Co., Inc., Wantagh, N. Y., a corporation of New York
Application April 13, 1951, Serial No. 220,853
13 Claims. (Cl. 3—1.1)



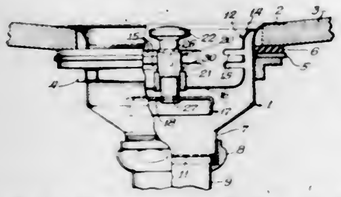
1. An artificial leg comprising upper and lower members forming a knee joint, means for pivotally connecting said members whereby they are movable into extended and flexed positions, a magnet mounted on one of said members, magnetic material on the other member cooperating with said magnet in the extended position.

2,662,229
NURSERY CHAIR
Russell L. Wenkstern, Mound, Minn., assignor to Moulded Products, Inc., Spring Park, Minn., a corporation of Minnesota
Application January 11, 1950, Serial No. 137,954
7 Claims. (Cl. 4—135)



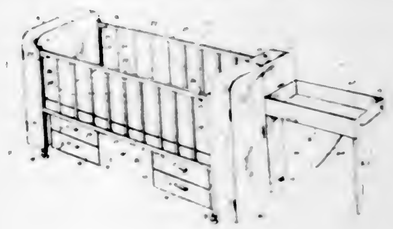
1. A nursery chair comprising a casing-like base having an opening in its upper portion and an inturned rib adjacent said opening, a bottom fitting within said base and having a portion thereof extending substantially horizontally shaped to receive and hold a receptacle, a panel member rising upwardly from said portion of said bottom in spaced relation forwardly from the rear side of said base and forming with said rear side and the rear portion of said bottom a toilet paper receiver, there being a slot formed in said bottom near the rear wall of said base through which a paper web from a quantity of toilet paper within said receiver may be extended for dispensation, and an apertured seat supported on the inturned flange of said base.

2,662,230
STOPPER CONSTRUCTION FOR SINK STRAINERS AND THE LIKE
Philip K. Borman, Chicago, Ill., assignor to General Electric Company, a corporation of New York
Application December 1, 1950, Serial No. 198,665
1 Claim. (Cl. 4—287)



In a sink strainer or the like having a cylindrical body portion for securement about the drainage opening of a sink, means providing a valve seat at the discharge end of said body and means for affixing said discharge end to a waste conduit: the combination of a foraminated crumb cup having means for engaging with said body portion to removably support said cup well above the base of said body portion; a relatively short upstanding sleeve fixed to the bottom of said cup to provide a passage through said cup bottom coaxial with said valve seat, the wall of said sleeve being uninterrupted and formed to provide an axial passage characterized by diametrically opposite arcuate wall portions of equal radius and length and diametrically opposite mutually parallel flat wall portions interconnecting the respective ends of said arcuate portions; a stopper adapted to engage said valve seat means; a stem fixed to said stopper and extending axially therefrom, said stem having a lower cylindrical portion of greater length than said sleeve and a diameter less than the flat-to-flat dimension of said sleeve passage and an upper stem portion integral therewith and having a cross sectional shape similar to said sleeve passage and sized to fit slidably within said passage, said upper stem portion having at the base of each of its arcuate wall portions an indentation providing a flat locking wall beneath an overhanging shoulder, said locking walls being mutually parallel, in symmetrical relation to the axis of said sleeve, and spaced apart slightly less than the flat-wall spacing of said sleeve; whereupon with the major and minor axes of the stem in registry with the corresponding axes of the sleeve, the stem may be dropped therethrough to valve-seat closing position, or the stem may be raised until its cylindrical portion is wholly within the sleeve passage, rotated to align the locking walls of said stem with the flat walls of said sleeve and then lowered to seat the shoulders of said stem upon the upper edge of said sleeve with the locking walls in close parallel relation to the flat walls of said sleeve, in which position the stem is maintained with its stopper spaced from the valve seat.

2,662,231
COMBINATION CRIB, SMALL BATHTUB, AND TOILET UNIT
Clayton King, Camden, N. J.
Application August 23, 1948, Serial No. 45,618
3 Claims. (Cl. 5—2)





1. In a combination unit of the character described, a pair of end cabinets, each having a rear wall with the rear walls in opposed confronting relation, a pair of casters at the lower end of each cabinet movably supporting said cabinets in an upraised position, a pair of vertically arranged, spaced channel bars mounted on the exposed face of each rear wall of each cabinet, the spacing of the channel bars on one cabinet corresponding to the spacing on the other cabinet whereby said channel bars are arranged in opposed confronting relation, a pair of gates slidably mounted in said channel bars and extending between said cabinets, means carried at each end of each gate cooperating with the channel bar thereat to maintain the end of said gate assembled therewith, means carried by each gate for maintaining that gate in a position into which it has been vertically moved, a horizontal support mounted on the exposed face of each rear wall between said channel bars, a bed spring positioned between said cabinets within said gates with its ends resting on said horizontal supports, and a pair of drawer assemblies suspended from said bed spring at the opposite ends thereof.

2,662,232
TRANSPORTABLE SHELTER
Francis R. Daly, Minneapolis, Minn.
Application September 28, 1950, Serial No. 187,276
5 Claims. (Cl. 5—119)



2. An automobile top structure adapted to be attached to and supported by the top of an automobile, comprising a rectangular base box having a rigid bottom wall and side and end walls rigidly connected thereto and a mattress and bedding within said walls, said base box being removably supported upon and within the outer limits of the top of an automobile, a tent having its lower edge portions everywhere secured to the upper edges of the side and end walls, said tent enclosing a space above said mattress and bedding, means holding the tent extended a substantial distance above the top plane of said base box with portions of the tent held to extend outside the side limits of said base box, each of said last named portions being composed of the tent material, being V-shaped in cross-section and extending a substantial distance beyond and overhanging each of the sides of the automobile, an opening formed in the lower part of said overhang, and a flap of tent material adapted to hang down from the outer edge of said overhang and to form a closure for said opening.

ERRATUM
For Class 5—140 see:
Patent No. 2,662,584

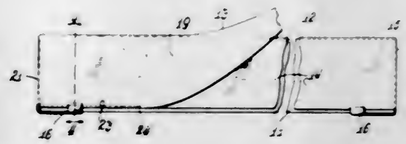
2,662,233
SHEET
Helen B. Cheesman, Peoria, Ill.
Application March 8, 1948, Serial No. 13,710
11 Claims. (Cl. 5—334)



1. A combined sheet and pillow case comprising a sheet provided with a pillow pocket, all sides of said pocket being folded under and joined to said sheet and adapted to encase a substantial portion of the under side of a pillow, said combination having an opening into the pocket for receiving a pillow.

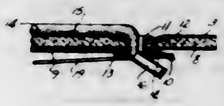
2,662,234
BED SHEET CONSTRUCTION
Ben Citron, Chicago, Ill., assignor, by mesne assignments, to Ben Citron and Paul Bernstein, both of Chicago, Ill.
Application May 14, 1951, Serial No. 226,193
2 Claims. (Cl. 5—334)

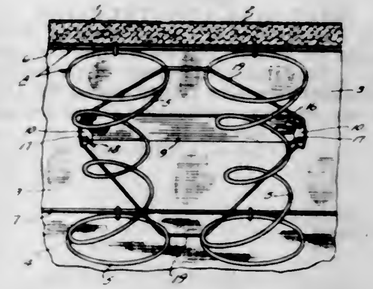
1. A fitted sheet construction adapted to be detachably secured to a mattress comprising, a first sheet of a size and shape to conform substantially to the size and shape of the top surface of a mattress, fitted corners and side and end walls on said sheet to overlie the respective side and end walls of the mattress, a second sheet having fitted corners at one end defining



an end wall and side wall portions contiguous therewith, means joining the sheets at the complemental fitted ends, and straps bridging the corners of the fitted sheet construction engageable beneath the mattress so as to retain the first sheet in place.

2,662,235
HANDLE FOR INNER SPRING MATTRESSES AND THE LIKE
J Allen Ferguson, St. Paul, Minn., assignor, by mesne assignments, to Bechik Products, Inc., St. Paul, Minn., a corporation of Minnesota
Application September 22, 1951, Serial No. 247,874
3 Claims. (Cl. 5—345)





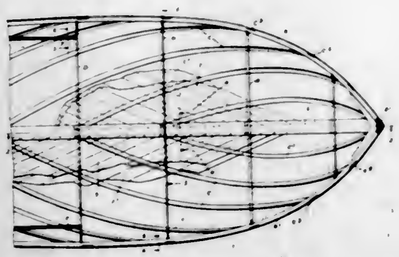
1. In combination, a flexible handle for and a mattress or the like having an inner spring unit and a side wall, said handle including a flexible resilient bar, said bar having its opposite ends bent laterally from the plane thereof to provide ears, a pair of grommets extending through spaced openings in said mattress wall and said bar whereby to secure said bar to the inner surface of said wall intermediate the upper and lower edges thereof and generally parallel thereto, a flexible handle stretched taut by the resilience of said bar overlying the outer surface of the mattress wall and having its opposite ends extending through said grommets, anchoring means on the ends of said flexible handle, a pair of opposed generally U-shaped resilient link members having detachable pivotal engagement with the ears on opposite ends of said bar, the intermediate portion of said link members being pivotally secured to said inner spring unit at vertically-spaced points.

2,662,236
WHEEL SUSPENSION ASSEMBLY FOR BOATS
Ralph C. Kester, Wichita, Kans.
Application September 9, 1950, Serial No. 183,957
4 Claims. (Cl. 9—1)



1. A wheel suspension assembly for a boat comprising: a crank which includes a pin, a web, an axle, and a wheel on the axle, said pin including two telescoped tubes the first of which is connected rigidly to one end of said web, and the second of which is oscillatable with relation to the first tube; a fixed length inherently resilient torsion element housed within said tubes and having its ends rigidly connected to the respective outer ends of the two mentioned tubes; a rigid plate rigidly secured to and extending outwardly from said second tube intermediate its ends; a pin receiving socket adapted to be mounted rigidly in a side wall of a boat for complementally receiving a portion of said second tube; a keeper lug adapted to be rigidly mounted on the exterior surface of said side wall of the boat to receive and hold a portion of the outer edge of said plate; and a spring pressed latch pivotally mounted on the plate contacting and cooperating with said keeper lug to prevent planar movement of the plate and rotational movement of said second tube.

2,662,237
BOAT HULL CONSTRUCTION
Herbert Charles Carey, Brightlingsea, England, assignor to Aldous Successors Limited, Brightlingsea, England, a company of Great Britain
Application February 3, 1949, Serial No. 74,353
Claims priority, application Great Britain August 16, 1948
3 Claims. (Cl. 9—6)



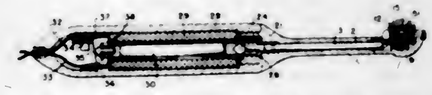
1. A boat hull construction comprising not less than three spaced longitudinal frame members, at least two series of spaced stringers, each stringer extending diagonally between and connected at its ends to a pair of adjacent longitudinal frame members, the stringers of one series extending in the opposite direction to the stringers of another series, and planking forming the skin of the hull extending between the longitudinal members in a diagonal direction opposite to that of the stringers and united to the longitudinal members and to the stringers.

2,662,238
TOOTHBRUSH GUARD
William G. Robey, Grafton, W. Va.
Application December 21, 1950, Serial No. 201,994
3 Claims. (Cl. 15—23)



1. A guard for a rotary toothbrush comprising a sleeve, said sleeve having a bore and being adapted to receive a rotatable shaft inserted therein with an end protruding therefrom, said sleeve being longitudinally slotted along a substantial portion of its length forming an integral resilient flap having a swingable end disposed coextensive therewith, a cup carried by said flap adjacent the end of said sleeve for substantial enclosure of a brush mounted on the end of the shaft, said cup having an opening for outward movement of the brush on swinging movement of the cup.

2,662,239
ROTARY TOOTHBRUSH
Donald P. Grover, Chicago, Ill.
Application November 9, 1946, Serial No. 708,877
3 Claims. (Cl. 15—23)



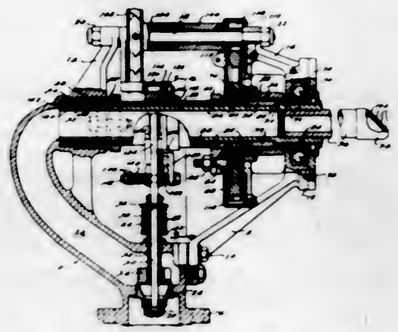
2. A rotary toothbrush of the class described comprising a handle portion, a brush element rotatably mounted thereon, said brush element including an elongated spindle, a ratchet wheel on said spindle, an elongated shaft located within said handle portion having an inner end and an outer end and extending longitudinally thereof, pawl means fixed to the outer end of said shaft, extending in the same direction as said shaft, and in contact with said ratchet wheel, and electrical means to reciprocate said shaft and pawl means longitudinally thereby to rotate said brush element upon each movement of said shaft in a direction toward its outer end.

2,662,240
PAINTBRUSH ATTACHMENT
Robert W. Perkins, Niles, Ohio
Application October 25, 1948, Serial No. 56,438
2 Claims. (Cl. 15—246)



2. An attachment for a conventional paint brush comprising a body having a generally triangular back portion formed with laterally extending sides defining a trough which narrows in a direction toward a free end, and said body including means for securing it to the handle portion of said brush, said body being of relatively rigid material and in secured position on said brush receiving the brush bristles within its trough with the narrow end of the trough adjacent to the free ends of the bristles, and said body reshaping the bristles in conformance with the outline of said trough so that the bristles are in grooved formation when viewed in transverse section.

2,662,241
SOOT BLOWER OF THE SHORT-TRAVEL RETRACTING TYPE
Le Roy S. De Mart, Detroit, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Ohio
Application August 5, 1947, Serial No. 766,183
25 Claims. (Cl. 15—317)



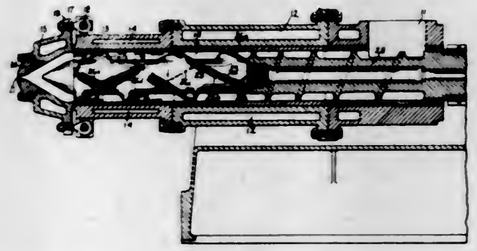
1. In a soot blower, a supporting frame, an outer tube rotatably mounted on said frame, an inner tube axially slidable within said outer tube, said tubes being non-rotatable with respect to each other, means for moving said inner tube axially to project the same from said outer tube, means for restraining said outer tube against rotation during the projection of said inner tube, means responsive to movement of the inner tube to a final stage of projection for releasing said restraining means whereby both tubes may be rotated in unison and means for supplying a cleaning fluid to said tubes.

2,662,242
HINGE ACCESSORY
Alexander McD. Hess, Jamaica, N. Y.
Application August 30, 1948, Serial No. 46,830
1 Claim. (Cl. 16—176)



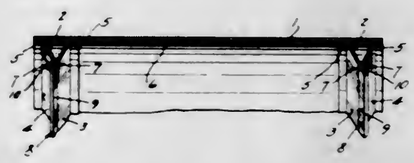
In the combination of a household appliance which consists of a collapsible gate adapted to span a door opening and whose supporting rotatable lug members are adapted to slide up and down upon a mounting shaft, a mounting element for said gate comprising upper and lower contact members each adapted to fit over the ball portion of a door hinge, a mounting shaft fitting into said contact members, a compression spring in said upper contact member pressing against the upper end of said shaft for securing said contact members to said door hinge, and a thumb-screw seated in said upper contact member for locking said shaft.

2,662,243
BLENDING AND/OR WARMING EXTRUSION DEVICE FOR PLASTICS OR THE LIKE
Carl F. Schnuck, North Haven, and Warren C. Whittum, Ansonia, Conn., assignors to Farrel-Birmingham Company, Incorporated, Ansonia, Conn., a corporation of Connecticut
Application July 7, 1950, Serial No. 172,432
4 Claims. (Cl. 18—12)



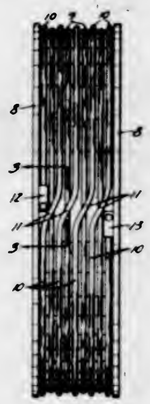
1. An apparatus for treating plastic materials comprising a chamber provided with inlet and discharge openings, a rotor in said chamber having a forward section with blades thereon to move the material only in a direction toward the discharge opening and a following section having a plurality of blades thereon, certain of said last-named blades being pitched to move the material axially of the chamber in a forward direction toward the discharge opening and others of said last-named blades being disposed between certain of said last-named blades and pitched to move the material in a reverse direction, and the forwardly pitched blades on said following section having combined surfaces of greater area than those of the reversely pitched blades so as to effect discharge of the material through said discharge opening.

2,662,244
RETREAD MOLD CONSTRUCTION
Earle W. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application September 15, 1952, Serial No. 309,619
2 Claims. (Cl. 18—18)



1. In a device of the class described, a cylindrical sheet metal band, radially inwardly projecting continuous confining flanges adjacent opposite edges of said band, said confining flanges being formed from sheet metal bent in cross-sectionally V-shape and having their outer edges bent to form anchoring skirts which project in opposite directions and lie flat against the inner surface of said band, means securing said skirts to said band, and extension elements for said confining flanges, said elements comprising endless metallic rings welded to the crown of the V and extending generally radially inwardly therefrom.

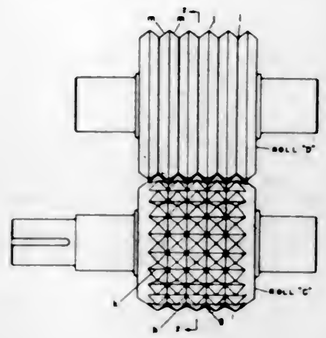
2,662,245
RETREAD MOLD CONSTRUCTION
Earle W. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application September 20, 1952, Serial No. 310,615
3 Claims. (Cl. 18—18)



1. A tire retreading device comprising an endless cylinder-like matrix formed from sheet metal and having radially inwardly projecting endless tread material confining flanges adjacent its opposite side edges, an endless reinforcing band tightly encompassing the outer peripheral surface of said matrix intermediate its side edges, an endless tubular heating element coiled about the outer peripheral surface of said matrix intermediate said side edges, said heating coil crossing over said reinforcing band, and a radially outwardly projecting endless rail element rigidly secured to said outer peripheral surface of said matrix one each adjacent its opposite side edges, said rail elements having radial heights greater than either the tubular heating element or the reinforcing band but less than the combined height thereof, said tubular heating coil terminating in inlet and outlet heads having radial heights greater than the combined heights of said heating element and said reinforcing band and said heads being situated circumferentially of the mold sufficiently close to the point of cross-over of said heating element with said reinforcing band as to afford protection to said heating coil when the matrix is rolled upon the ground past said point of cross-over.

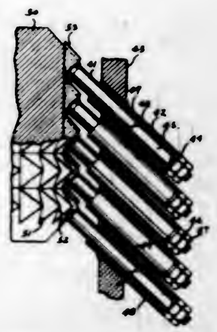
2,662,246
BRIQUETTING ROLL
Bethune G. Klugh and George C. Perrine, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
Application June 22, 1949, Serial No. 100,628
9 Claims. (Cl. 18—21)

1. A briquetting roll assembly comprising in combination a pair of opposed contacting rolls which rotate in the same direction at the point of contact, each roll having uniformly spaced parallel V-shaped peripheral grooves and adjacent parallel peripheral ridges, at least one of said rolls having axial angular grooves intersecting said V-shaped peripheral grooves and peripheral angular ridges at right angles on said one roll and said peripheral ridges on the other roll closely intermeshing with the peripheral grooves on said one roll at the point of contact of said rolls and providing lateral closures for the axial grooves on said one roll and thereby forming a



series of completely separated mold cavities on said one roll.

2,662,247
BRIQUETTING ROLL ASSEMBLY
Bethune G. Klugh, Birmingham, and George C. Perrine, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
Application July 7, 1950, Serial No. 172,466
9 Claims. (Cl. 18—21)



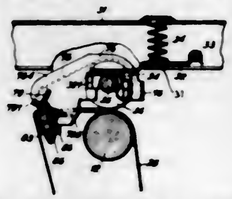
1. A briquetting roll assembly comprising in combination a pair of opposed contacting rolls which rotate in the same direction at the point of contact, each roll having uniformly spaced parallel V-shaped peripheral grooves and adjacent parallel peripheral ridges, at least one of said rolls having axial angular grooves intersecting said V-shaped peripheral grooves and peripheral angular ridges at right angles on said one roll and said peripheral ridges on the other roll closely intermeshing with the peripheral grooves on said one roll at the point of contact of said rolls and providing lateral closures for the axial grooves on said one roll and thereby forming a series of completely separated mold cavities on said one roll; and an ejector means for laterally dislodging the adhering briquettes formed in said one roll, said ejector means being mounted adjacent to said one roll and being actuated at least in part by the rotary movement thereof.

2,662,248
METHOD OF FORMING MOLDS FOR CASTING THERMOSETTING TRANSPARENT ENCLOSURES
Robert S. Ames, Akron, Ohio, assignor to Goodyear Aircraft Corporation, Akron, Ohio, a corporation of Delaware
Application February 10, 1951, Serial No. 210,423
2 Claims. (Cl. 18—47.5)



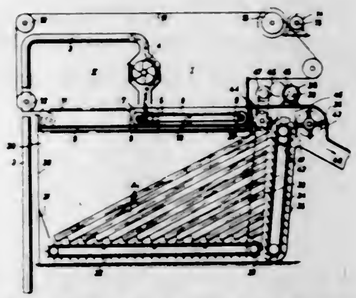
1. That method of making simultaneously a male-female mold for casting an oblong, streamlined, aircraft canopy from thermosetting resin including the steps of providing at least one of each two contacting surfaces of three sheets of thermoplastic material to be assembled into a laminate, at least one outer sheet of which is transparent to ultra-violet light, with a thin coat of an inert anti-adhesive, heating the sheets to proper forming temperature, assembling the sheets into the laminate, holding the laminated sheets together along their edges against shifting, forming the laminate to the desired shape with flanges along the edges thereof, cooling the formed laminate, reinforcing at least the edges of the outer sheets with ribs to prevent deformation, removing the inner sheet, reassembling the reinforced outer sheets by attaching peripheral spacer elements of the thickness of the removed sheet to the inner surface of one of said reinforced sheets, superimposing the second reinforced sheet on said spacer element and attaching it thereto to form a mold for casting a canopy substantially identical in shape and thickness to the removed inner sheet.

2,662,249
DOUBLE BELT DRAWING MECHANISM FOR TEXTILE MACHINES
Karl-Hans Neu, Stuttgart, Germany
Application November 29, 1952, Serial No. 323,291
Claims priority, application Germany
November 30, 1951
7 Claims. (Cl. 19—131)



1. In a double belt drawing mechanism for textile machines, in combination, base means; bottom roll means turnably mounted for rotation about its axis on said base means; bottom belt means engaging said bottom roll means and extending forwardly therefrom; a guide rail fixed to said base means, being located forwardly from said axis of said bottom roll means, being parallel to said axis, and engaging said bottom belt means to guide the latter, said guide rail having a rear side facing said bottom roll means; support means turnably connected to said base means for movement downwardly to and upwardly away from an operating position where said support means is located over said base means; top roll means turnably carried for rotation about its axis by said support means and being movable with the latter, said top roll means being located over said bottom roll means and having a spindle parallel to the axis of said bottom roll means; top belt means engaging said top roll means and said bottom belt means and extending forwardly from said top roll means; and guide means turnably mounted at an intermediate portion thereof on said spindle of said top roll means for guiding said top belt means, said guide means including a front end portion fixed to said intermediate portion thereof, located in front of said top roll means and engaging said top belt means, and a rear end portion located to the rear of said top roll means for engaging said support means to limit turning movement of said guide means and said top belt means therewith about said spindle of said top roll means when said support means is turned upwardly away from said base means, and said guide means including at least one downwardly extending hook portion located adjacent said rear side of guide rail for releasably holding said guide means in a predetermined operating position.

2,662,250
METHOD AND DEVICE FOR MIXING TEXTILE FIBERS
Hans Schweizer, Luino, Italy, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland, a corporation of Switzerland
Application May 21, 1951, Serial No. 227,317
Claims priority, application Switzerland
May 30, 1950
7 Claims. (Cl. 19—146)



3. A device for mixing textile fibres, comprising a longitudinal chamber having a bottom and an open top; a first horizontal conveyor lattice disposed at the bottom of said chamber; a second horizontal conveyor lattice receiving the fibres to be mixed, being substantially half as long as and longitudinally reciprocatingly movable along the top of said chamber, and discharging the fibres alternatingly over one of its ends for piling the fibres on said first lattice; and an elevator lattice disposed in said casing on one side thereof, having an end adjacent to an end of said first lattice, and having spikes tearing fibres from one side of the pile of fibres stacked on said first lattice and pushed by the latter toward said elevator lattice, and removing the torn-off fibres from said casing.

2,662,251
STOP MOTION DEVICE FOR SLIVER PROCESSING MACHINES
Walter J. Scott, Woonsocket, R. I.
Application April 26, 1951, Serial No. 223,015
5 Claims. (Cl. 19—165)

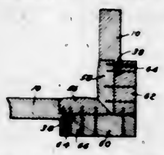
1. In a stop motion device for a sliver processing machine comprising a first electrical con-

tact rotatably mounted at a location on said machine to be out of the path of movement of said sliver, means for rotating said contact, said first contact being shaped in cross section to provide non-circular engaging portions thereon, a second contact electrically insulated from said first contact and pivotally mounted for gravitational movement towards said first contact and having



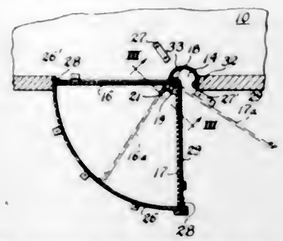
a portion thereof extending on one side of said pivotal mounting to be positioned in the path of movement of the sliver to be engaged thereby to be held out of engagement with the first contact, said second contact having a portion thereof on the other side of said pivotal mounting for engaging the first contact upon rocking of said second contact upon the same being free of said sliver.

2,662,252
BUILDING WALL CORNER JOINT
Earl E. Styles, Gaylord, Mich., assignor to The Otsego Log Cabin Company, Gaylord, Mich., a corporation of Michigan
Application June 28, 1950, Serial No. 170,798
12 Claims. (Cl. 20—4)



1. In a building of wood construction, means for connecting two angularly related side walls of the building comprising inner and outer upright members secured together to form an upright corner assembly having two vertical angularly related end faces, two angularly related outer faces, and two angularly related inner faces, one of said members being rabbeted along the vertical end faces thereof, said rabbeted portion cooperating with the adjacent face of the other member to provide vertical grooves in said vertical end faces of said corner assembly, said grooves being disposed between the abutting faces of said inner and outer members a plurality of solid, horizontal members positioned edgewise one above the other and forming exterior siding for the building, said siding members having their ends projecting into and substantially filling said vertically extending grooves, said grooves each being sufficiently deep and said inner faces being sufficiently wide relative to the thickness of said corner assembly to provide ample clearance for driving fastening members into said ends of said siding members and said outer members from the inner faces of said inner upright members, and headed drive fastening members for securing said siding to said corner assembly, said fastening members being driven outwardly from the inner face of the siding members into the ends of said siding members within said grooves and into at least one of said inner and outer members, said fastening members being of a length such as to terminate at the leading end thereof at a point spaced inwardly of the outer face of said outer upright members.

2,662,253
DOOR FOR DARKROOMS
William R. Winkler, Pittsburgh, Pa.
Application July 10, 1951, Serial No. 236,032
3 Claims. (Cl. 20—16)

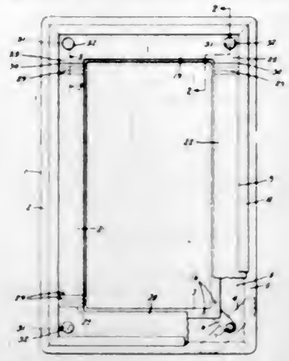


1. A light-tight door structure for a dark room having an opening in an exterior wall thereof which structure comprises a pair of opaque door panels disposed edge to edge at substantially 90 degrees to each other, each of said panels being adapted substantially to close the side opening, means for pivotally supporting said panels for swinging upon an axis parallel to and adjacent the adjacent edges of the door panels and adjacent one side of the door opening, an upright opaque light trapping wall member of substantially quarter circular cross section extending from the side of the door opening opposite said pivotal supporting means and adapted to engage free side edges of said door panels, means limiting the travel of said door panels on the pivotal supporting means so that at least one of the door panels engages the wall member of quarter-circular cross section at all times, a flexible opaque membrane connecting said door panels at the adjacent edges thereof and the adjacent side of the door opening, the membrane extending the full length of the adjacent edges of the panels, means forming a light-tight seal between the lower end of the membrane and the floor of the dark room, and means forming a light-tight seal between the upper end of the membrane and the top of the door opening to form a light seal between the panels and the side of the door opening adjacent the pivots of the panels.

2,662,254
REFRIGERATOR BREAKER STRIP ASSEMBLY
George C. Harbison, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application September 20, 1950, Serial No. 185,729
1 Claim. (Cl. 20—35)

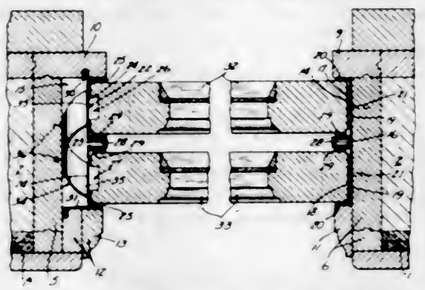
A refrigerator structure or the like comprising an outer wall, an inner wall spaced from said outer wall and supported thereon, a breaker strip assembly extending around the perimeter of said inner wall for closing the space between said walls, said assembly including a pair of horizontal breaker strips extending along the top and bottom of said inner wall, said assembly further including a pair of vertical breaker strips extending along the sides of said inner wall, and means for securing said breaker strips to

said inner wall, each breaker strip of one of said pairs being shaped to include a return bent flange at each end providing an outwardly facing recess, each breaker strip of the other of said pairs being shaped to provide an inwardly extending tongue at each end, said tongues being received within corresponding recesses for inter-



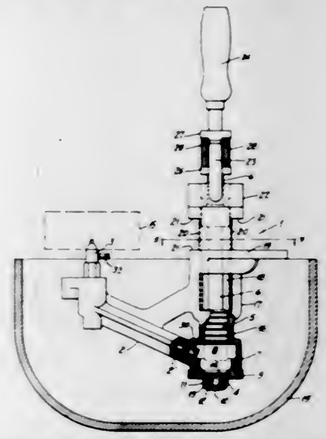
locking said breaker strips, each of the abutting edges of said breaker strips being chamfered to provide grooves, at least one of said pairs of breaker strips including a plurality of grooves therein adjacent the ends thereof and parallel to corresponding ones of said first mentioned grooves.

2,662,255
REMOVABLE DOUBLE HUNG WINDOW SASH STRUCTURE
Olaf R. Serley and Robert N. Mortensen, Minneapolis, Minn., assignors to Serley Co., Minneapolis, Minn., a corporation of Minnesota
Application February 18, 1952, Serial No. 272,116
4 Claims. (Cl. 20—52.2)



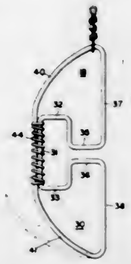
1. In a removable double hung window sash construction, a window frame structure having opposed laterally-spaced sides, said sides comprising jambs and sash stops, one of said frame sides defining parallel inner and outer channels and an intervening parting strip, the other of said frame sides defining a channel of a width approximately equal to the combined width of the parallel channels and parting strip of the other frame side, a floating sealing member of substantially the width of said last frame channel mounted therein in spaced relation to the bottom thereof and for movements toward and from the opposite side of the frame, said floating sealing member comprising a parting strip portion and oppositely-projecting wing portions extending entirely across said last frame channel and contacting said sash stops, an upper and a lower sash having side stiles for sliding vertical movement in said frame, the stiles of one side of said sashes being slidable, one in the inner channel and one in the outer channel of the first-said frame side, the stiles of the other side of said sashes being disposed within the channel in the second said frame side on opposite sides of the parting strip portion of the floating sealing member and in sliding contact with the opposite extending wing portions of the sealing member, and a plurality of bowed leaf springs located in the space between the bottom of the last said frame channel and the floating sealing member yieldingly urging the floating sealing member and the sashes in the direction of the other side of the frame, said bowed leaf springs being diagonally disposed in the last said frame channel with their intermediate portions anchored to and exerting a force against the transversely intermediate portion of the channel bottom, their free ends being in engagement with opposite wings of the floating sealing member intermediate the parting strip portion and the opposite edges of the floating sealing member.

2,662,256
PUMP FOR FEEDING MOLTEN METAL
Arthur L. Gagne, San Francisco, Calif.
Application March 15, 1951, Serial No. 215,836
2 Claims. (Cl. 22—70)



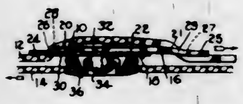
1. A pump for molten lead comprising a generally cylindrical housing having a pair of fixed brackets projecting therefrom intermediate the length thereof, the brackets being adapted for resting on the rim of a pot having a body of molten lead therein to support the housing vertically within the pot, and the portion of the housing below the brackets being dimensioned to extend downwardly to a level near the bottom of the pot so as to be submerged in the molten lead, a rigid arm projecting from the submerged portion of the cylinder in an upwardly inclined direction and having a nozzle at the upper end thereof above the level of the molten lead, a plunger reciprocable in the lower end of the housing and projecting upwardly above the housing and having a handle at the upper end thereof, a pair of wings projecting from the plunger intermediate the upper end of the housing and the handle, an operating lever engaging between the wings for reciprocating the plunger, the arm having a port leading from the lower end of the housing to the nozzle, a closure for the bottom end of the housing, and an intake valve mounted within said closure.

2,662,257
FISH STRINGER
Horace Robert Milan and Oswald L. Bluege, Washington, D. C.
Application March 11, 1952, Serial No. 275,866
1 Claim. (Cl. 24—73)



A holder unit to be secured with similar units to the spreader of a fish stringer, comprising a single strip of resilient wire bent into two spaced loops of equal size, symmetrically positioned with respect to a bight of a hollow T-shape, the head of the T being the central portion of the wire as well as the central portion of the holder unit, forming the sole connection between the two loops, the sides of the stem of the T being spaced apart, each loop including a part of the head of the T, one side of the stem of the T, and a relatively long outside portion curving from the bottom edge of the holder unit up to the top of the T when said portion is in normal position, the end of each outside portion forming a fish impaling hook, said end lying parallel to the head of the T, and latching means movable on said central portion adapted to surround and thereby latch the hook ends of the loops to said central portion to hold the end in said normal position whereby as either loop, empty or having a fish in it, is held in the palm of the fisherman's hand, the thumb and the forefinger of that hand may release the latched end of the opposite loop to allow the outside portion to spring clear of the head of the T for convenient impaling of a fish held in the fisherman's other hand.

2,662,258
GRIPPING SLIDER TYPE BUCKLE WITH FASTENER MEMBER ON SLIDER
Walter I. Jones, Somerville, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 13, 1950, Serial No. 138,425
3 Claims. (Cl. 24—77)



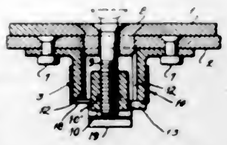
1. A buckle assembly comprising a strap-receiving frame member having a transverse strap-receiving slot adjacent each end thereof and a medial body portion between said slots, said medial portion being provided with a longitudinal elongated slot, a slider member positioned in said longitudinal slot for longitudinal movement therein, said slider member comprising connecting means mounted in said longitudinal slot, one side of said connecting means secured to a clamping element having a circumferentially-serrated planar strap-clamping, disk-like base larger than the slot width disposed immediately adjacent one face of said frame member and a gripper centrally formed with and extending outwardly from said base portion at right angles thereto on the same side of said frame member, the opposite side of said connecting means secured to a disk-like holding element larger than the slot width disposed immediately adjacent to the opposite face of said frame member, the medial portion of the frame member being planar and the outermost edge of each of the strap-receiving slots being disposed in a plane spaced from the plane of the medial portion of the frame member in the direction of the clamping element, said slider member being slidable on the frame member to move said serrated disk into one of the strap-receiving slots to engage and grip a strap disposed therein.

2,662,259
COVERED BUTTON WITH INSERT
Herman Josef Kochl, Danielson, Conn., assignor to C. E. M. Company, Killingly, Conn., a partnership
Application April 1, 1950, Serial No. 153,323
3 Claims. (Cl. 24—113)



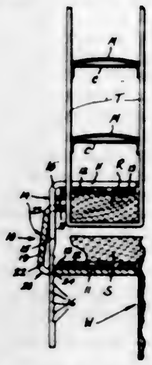
1. A button assembly, comprising a hollow ring-shaped, sheet metal form piece having an opening at the front and a larger opening at the back, the latter opening being lined with inwardly pointed teeth, an insert fitting closely within said front opening, and a covering material passing over the outer surface of the form piece, between the edges of its front opening and the insert, and underneath the insert, thus holding the latter within said front opening, said covering material being held in place by the inwardly pointed teeth.

2,662,260
RAPID CONNECT AND DISCONNECT FASTENING MEANS
Charles F. Marschner, Normandy, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland
Application October 13, 1950, Serial No. 189,942
7 Claims. (Cl. 24—221)



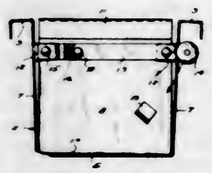
1. A fastener comprising a receptacle to be secured to supporting means, stops on said receptacle, a bushing to be fitted into a bore in the members secured together and snugly engaging the walls thereof, a screw extending through said bushing and said receptacle, a nut for said screw, a cap for said receptacle having radial projections whose sides are disposed in different planes, projections on said nut adapted to be held in position between said stops and the sides of said radial projections; and a spring disposed for axially moving said screw in said bushing and receptacle.

2,662,261
CLAMP
John M. Mikoski, Spokane, Wash.
Application June 5, 1952, Serial No. 291,885
1 Claim. (Cl. 24—262)



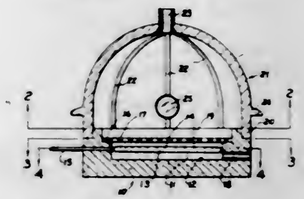
An adjustable Venetian blind clamp comprising cooperating spaced parallel jaw members for releasably securing the lower rail of a Venetian blind to the sill of the window frame from which the blind is hung; each said jaw being provided with padded faces disposed to contact the sill and rail; juxtaposed legs carried by the jaws at one end and disposed substantially at right angles thereto; one said leg being substantially longer than the other and having a plurality of teeth disposed toward its jaw and on its inner side face; the other said leg being of a greater width than the first described leg; a lip carried by the free end of said second leg and extending substantially in parallel relation to its jaw; said second leg having upper and lower apertures at its ends adjacent the lip and jaw respectively; a tooth in the lower aperture extending transversely at the supported end of its respective jaw; and said first leg extending downwardly through said upper and lower apertures with its teeth disposed to cooperate with said tooth, whereby spreading pressure on said jaws urges the teeth into locking engagement with said tooth.

2,662,262
EXPANSIBLE MOLD FOR CASTING CONCRETE FENCE POSTS
Joseph C. Wollard, Miami, and August H. Sexton, North Miami Beach, Fla.
Application November 5, 1952, Serial No. 318,859
3 Claims. (Cl. 25—121)



3. An elongated mold for casting reinforced concrete fence posts that comprises a trough-like receptacle open at the top and having a bottom and integral upstanding flexible side walls, roller trackways formed upon the upper edges of the side walls for their full length, end walls connected with the bottom walls inwardly of the opposite ends of the bottom and the side walls, ears carried by the side walls at opposite ends that extend inwardly at a right angle to the side walls to lie in parallel spaced relation to the end walls, an arm pivotally connected to one ear at each end of the mold, a link pivotally connected to the opposite ear at each end of the mold, each of the links and each of the arms being pivotally connected together, a knob carried by each of the arms to facilitate swinging movement thereof, each of the arms and their pivotally attached links swingable in a vertical plane upwardly to simultaneously shift the side walls outwardly to be angularly disposed with respect to the bottom wall, the arms and their pivotally connected links being swingable in a vertical plane downwardly for simultaneously shifting the side walls inwardly to engage the end walls, a keeper for each arm that is rigidly connected to the outer face of each end wall and lying in the path of downward swinging movement of the arms.

2,662,263
PORTABLE KILN
Frederick W. Fuger, Grosse Pointe, Mich.
Application April 30, 1952, Serial No. 285,205
2 Claims. (Cl. 25—132)

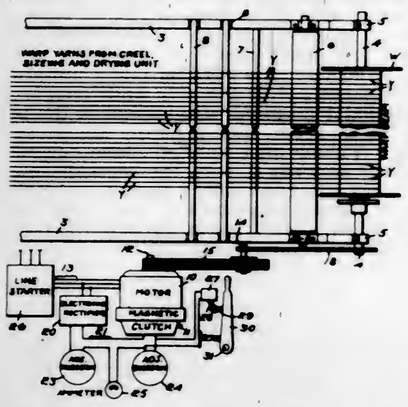


1. A portable kiln comprising a base provided with a well therein, the well being open at the top, a heat-producing unit within the well, a grating resting upon parts of the base at a level above the heat-producing unit, an air duct below said unit to admit air from outside the base, a dome of monolithic construction to fit over and to be supported by the top of the base, and a flue within the top of the dome to release combustion gases from within said dome, said dome being adapted to be lifted from the top of the base when desired.

2,662,264
TEXTILE SLASHER
James S. Campbell, Manchester, N. H., assignor to Verney Corporation, Manchester, N. H., a corporation of New Hampshire
Application October 3, 1951, Serial No. 249,527
1 Claim. (Cl. 28—28)

In a slasher for textile warp yarns having a frame, a warp beam shaft at the head end thereof, and frame carried guide means including splitter bars, a distributing comb and one or more guide rolls for directing a multiplicity of warp yarn ends therealong to the beam, the combination with said beam of a constant speed electric drive motor, a power output shaft, electro-magnetic clutch means operatively interposed between the motor and output shaft, a source of uniform direct current for energizing the clutch, a jack shaft on the frame, reducing drives between the output and jack shafts and between the jack and beam shafts, and means controlling and compensating slippage at the clutch for substantially constant tension on the on-winding yarn ends including two rheostats connected in series with said clutch and together determining the current value for stalling and jogging operation of the slasher, a shunt circuit and switch therein for cutting out

one rheostat thereby to supply through the other the selected constant current value for normal running of the slasher, a shift lever on the slasher frame for shifting as between low stalling and



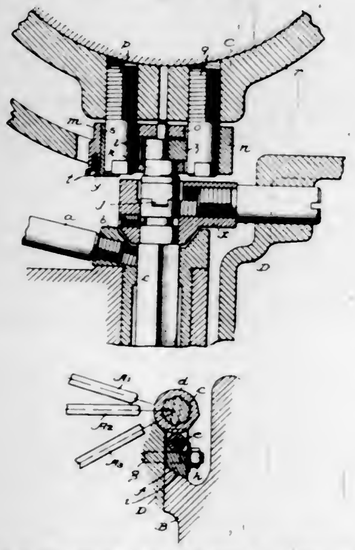
jogging speed and normal running speed, and means moving with the shift lever for closing and opening said shunt circuit switch on shifting to and from operating speed.

2,662,265

COMMON CONTROL FOR THE LOCKING OF TWO MACHINE TOOL MEMBERS

Marcel Pegard, Paris, France

Application February 26, 1948, Serial No. 11,174
Claims priority, application Switzerland September 4, 1947
13 Claims. (Cl. 29—1)



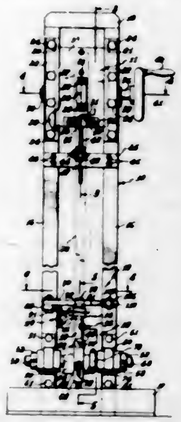
13. In a machine tool having a column, an arm adjustably mounted on said column and a tool carrier adjustably mounted on said arm, a carriage movable along said arm longitudinally thereof, said tool carrier being mounted on said carriage, said carriage and said arm having portions thereof adjacent each other, a wedge mounted on said carriage and removable to urge said adjacent portions of the arm and carriage together, a shaft carried by said arm rotatable to at least two operative positions, a cam mounted on said shaft for rotation therewith and operable to move said wedge against said portion of the arm to urge the arm and carriage into frictional engagement when said shaft is in either of said positions, a block rotatable with said shaft, said block having a cylindrical portion and an eccentric portion, a split sleeve embracing said column, each section of said sleeve having a clamping member mounted thereon, one of said clamping members having a projection extending toward the other clamping member and embracing said cylindrical portion of the block, the other clamping member having a projection extending toward said one clamping member and embracing said eccentric portion of the block, said eccentric portion being operable when said shaft is moved to one only of said positions to move said other clamping member toward said one clamping member to cause said split ring to contract and clamp said arm to said column.

2,662,266

METHOD AND APPARATUS FOR ATTACHING MUZZLE DEVICES TO GUNS

Edward Baden Powell, Pasadena, and Frank A. Pachmayr, Los Angeles, Calif.

Application January 26, 1949, Serial No. 72,824
11 Claims. (Cl. 29—1.1)



1. Apparatus for applying a muzzle attachment to a gun barrel, comprising a support, means for mounting the barrel and attachment to said support with said attachment in predetermined relation to the muzzle end of the barrel, heating means mounted in proximate relation to said barrel and attachment for locally heating them at an area of interengagement to simultaneously fuse bonding material disposed in said area and condition said barrel for bending, and a member movably mounted to the support for engaging and longitudinally bending said heated barrel to correct for sighting error while maintaining said attachment in said predetermined relation to said muzzle end of the barrel.

2,662,267

METHOD OF CRANKSHAFT CONSTRUCTION

Barney Nelson, Beloit, Wis.

Application November 1, 1947, Serial No. 783,524
2 Claims. (Cl. 29—6)

2. In a method of forming a crank-throw on an elongated, generally cylindrical metal crank-

shaft blank having a central axis, the steps of cutting a reference surface on a crank-throw section of the blank at one side of the axis and parallel to a plane through the axis so that the reference surface is disposed closer to the central axis than the diametrically opposed surface of the blank, displacing a portion of the metal about



said axis a predetermined distance in a direction diametrically away from said reference surface to the other side of said shaft axis while holding the reference surface against displacement from the central axis and machining said displaced metal on the crank-throw section of the blank to form crank arms and a connecting crank pin.

2,662,268

METHOD OF FABRICATING PLOW MOLDBOARDS

Hector M. De Brabant, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware

No Drawing. Application October 28, 1950, Serial No. 192,837
2 Claims. (Cl. 29—14)

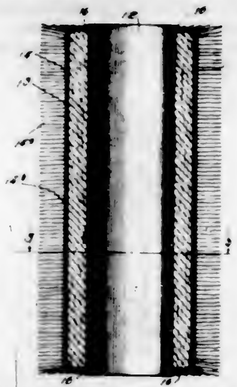
2. The method of fabricating plow moldboards which comprises the steps of finish grinding the working surface of the moldboard blank when the blank is in a planar configuration, the direction of said grinding being oriented with the expected direction of land flow along the finished moldboard, subsequently hot forming the moldboard blank to the desired complex configuration, and protecting the ground working surface of said blank by the exclusion of gaseous oxygen from said surface during said hot forming.

2,662,269

APPLICATOR ROLLER FOR LIQUIDS

Paul F. Nash, Glencoe, Ill., assignor, by mesne assignments, to E Z Paintr Corporation, Milwaukee, Wis., a corporation of Delaware

Application February 15, 1951, Serial No. 211,068
1 Claim. (Cl. 29—119)



An applicator roller for liquids comprising a tubular core, a resilient felt padding thereover of substantially uniform thickness with the ends of said core extending slightly therebeyond, a tubular piece of fibrous liquid-distributing material having the fibers turned outwardly with the base of said material overlying said padding and each end of said base extending around the corresponding end of the padding and toward the core, a cord loop at each end of the core closely embracing said core adjacent to the corresponding ends of the padding and fibrous material, stitching attaching each end of said base to one of said loops, and a coating substantially impervious to said liquids covering substantially the ends only of said fibrous material and the outer surfaces of said stitching and the corresponding ends of the core to seal the ends of said roller in areas adjacent to the core.

2,662,270

MANUFACTURE OF LAMINATED STRUCTURES

Edmund G. Mitchell, Alton, Ill., and De Wilton B. Timberman, New Haven, Conn., assignors to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware

Original application July 1, 1943, Serial No. 493,150, now Patent No. 2,445,858, dated July 27, 1948. Divided and this application January 16, 1948, Serial No. 2,635
8 Claims. (Cl. 29—148)



1. The method of forming a composite structure having an exposed surface layer of copper-phosphorus brazing alloy which comprises applying to a copper-base metal sheet a powdered layer of a copper-phosphorus brazing alloy having a melting point lower than the melting point of the copper-base metal sheet, heating the sheet and superposed layer in a non-oxidizing atmosphere at a temperature above the melting point of said layer but below the melting point of said sheet for a length of time sufficient to cause the brazing alloy to form a molten layer on said sheet, cooling the molten layer to a temperature below the melting point of the brazing alloy to form a fusion bond between said brazing alloy layer and said sheet, and pickling the resulting composite structure in a bath containing nitric acid, the concentration of the nitric acid in said bath and the duration of the pickling operation being such as to substantially increase the ductility and workability of the brazing alloy layer.

2,662,271

METHOD OF JOINING SECTIONS OF STRIP FOR A UNIFORM-SPEED CONTINUOUS-FEED STRIP-TREATING LINE

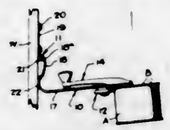
Joseph I. Greenberger, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 27, 1948, Serial No. 17,526
2 Claims. (Cl. 29—148)



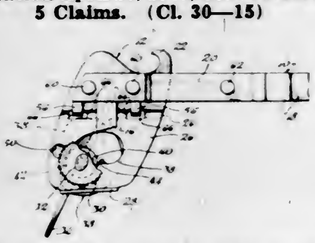
1. In the method of providing continuous strip material for passage through the conditioning portion of a processing line at a uniform rate of speed within which there are included in sequence a strip end trimming means, a strip accumulating zone, a removable zone by-pass strip conveyer adjacent said zone, strip end joining means and a second strip accumulating zone, the steps comprising supporting a coil of strip

2,662,279
DEVICE FOR REMOVING THE ENDS OF CANS
Harry C. Wilson, Sherman Oaks, Calif., assignor to Robert H. Clark, Los Angeles, Calif.
Application November 18, 1946, Serial No. 710,725
2 Claims. (Cl. 30—9)



1. A can opener including, a plate having a slot therein, a disc-shaped frusto-conical shear member rotatably supported with a peripheral shear edge spaced below the plate and below the upper surface of the member, said upper surface having a chamfered peripheral edge portion, a shaft rotatable and shiftable in the slot, a feed wheel on the shaft below the plate, a handle on the shaft above the plate, and cam means operating with the shaft to shift the shaft in the slot to move the wheel toward the shear member including a disc-shaped cam part surrounding the shaft and driven by the handle, a projection on the plate cooperating with the cam part, the cam part having a circular edge concentric with the shaft and a curved notch extending inwardly from the edge, and a member inserted between the cam part and plate creating drag between the cam part and the plate.

2,662,280
CAN OPENER
Michael J. La Forte, Park Ridge, Ill., assignor to Vaughan Mfg. Co., Chicago, Ill., a corporation of Illinois
Application April 27, 1949, Serial No. 89,845
5 Claims. (Cl. 30—15)



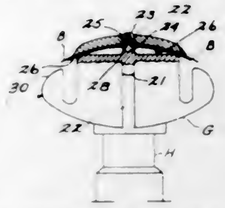
1. In a can opener having body structure including a handle extending away from said body structure, a cutter on said body structure, a pair of guide members projecting outwardly relative to said cutter on either side thereof and having a rebent part including a free end adapted to be positioned above the bead of a can when the opener is placed thereon, a member movable relative to said body structure and including traction means, cooperating means including said traction means for moving said movable member relatively to said body structure to bring said traction means into engagement with one side of the top bead on said can and the free ends of the guide members into engagement with the opposite side of the top bead on said can, and means to limit yielding movement of the free ends of said guide members, said means allowing sufficient flexing of said guide members to cause the bead on the can to be gripped between the traction means and guide members sufficiently firmly so that said cam may be handled by means of said handle while the opener remains on the can.

2,662,281
SAFETY RAZOR
Michael J. Cerino, Ventura, Calif., assignor to Firm Blade Razor Company, Inc., Portland, Oreg., a corporation of Oregon
Application December 18, 1952, Serial No. 326,718
9 Claims. (Cl. 30—58)



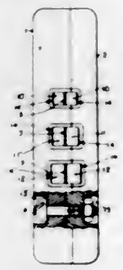
1. A razor having a handle, a laterally curved shank on one end of said handle, a curved guard attached at one end to said shank, a curved clamp hinged at one end to the opposite end of said guard, a latching lug extending from the concave side of said clamp opposite said hinged end, said hinge also extending from the concave side of said clamp, the extending portions of said latching lug and hinge having centering lugs on their adjacent faces, the hinge portion of said guard having an ejector lug projecting therefrom on the end of its concave side.

2,662,282
SAFETY RAZOR
John T. Scully, New York, N. Y.
Application January 6, 1948, Serial No. 713
6 Claims. (Cl. 30—72)



1. A safety razor including relatively movable cap and guard blade-clamping members, the clamping face of the cap member being concave and cooperative with the clamping face of the guard member for flexing a flexible razor blade, blade-positioning means in said razor projecting uprightly of the clamping face of one of said blade-clamping members, a flexible blade-engaging leaf spring member wider than the cap member and apertured to receive said blade-positioning means with said spring member disposed between said blade-clamping members with laterally oppositely disposed longitudinally extending side edge margins of said spring member disposed laterally outwardly of the side edges of said cap member for reinforcing the blade, a replaceable flexible razor blade wider than said spring member and apertured to receive said blade positioning means with said blade facedly opposite said spring member and with oppositely disposed shaving edges of said blade extending longitudinally with and laterally outwardly of said side edge margins of said spring member, resilient securing teeth in said blade cooperative with means in said blade-positioning means for detachably snap fastening said blade on said razor opposite the clamping face of one of said blade-clamping members, and means for relatively moving said blade-clamping members towards each other to flex and clamp together said spring member and said blade.

2,662,283
DUPLEX WIRE CABLE SLITTING DEVICE
Fred Glenger, Highland Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application June 2, 1948, Serial No. 30,665
3 Claims. (Cl. 30—91)



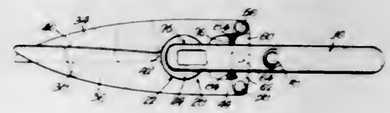
1. A device for slitting drop-wire having a pair of parallel conductors separated by insulation, comprising a single cutting blade for bisecting the insulation between said parallel conductors of said drop-wire, a single pair of similar frame-pieces, a groove having a predetermined depth and width extending through each of said frame-pieces for providing a wire passageway when said frame-pieces are assembled one over the other with said grooves in alignment, an indented cutting blade pocket in one of said frame-pieces to securely hold said cutting blade in one position for said bisecting operation in case said wire is to be moved through said passageway in one direction, an indented cutting blade pocket in the other of said frame-pieces to securely hold said cutting blade in another position in said passageway for said bisecting operation, in case it is desired to move said wire through said passageway in the opposite direction, and means for clamping said single pair of frame-pieces together after the blade is inserted in one of said pockets to form a complete slitting unit.

2,662,284
KNIFE CONSTRUCTION HAVING A SLIDING BLADE
Philip H. Unsinger, Fremont, Ohio, assignor, by mesne assignments, to Russell Hicks, Lexington, Ky.
Application April 20, 1949, Serial No. 88,670
4 Claims. (Cl. 30—162)



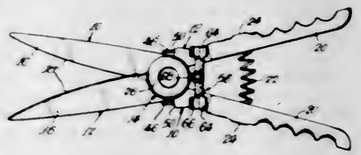
1. A knife construction comprising a molded plastic handle, said handle having a slot therein opening at one end of said handle, a knife blade disposed in said slot and slideable therein, said handle having a recess in a side meeting and opening into said slot and wider than said slot so as to form shoulders with said slot, a keeper pivotally connected to said knife blade at the shank end and adapted to be bottomed against said shoulders and fitting into said recess when the blade is in open or closed position, said keeper having its free end beveled, and inwardly canted surfaces at the ends of said recess for engagement with the beveled end of said keeper to lock said keeper when the blade is in the open or closed position.

2,662,285
GRASS SHEARS WITH VERTICAL HANDLE ACTION
Lucien I. Yeomans, Chicago, Ill., assignor to Midwest Tool and Cutlery Company, Sturgis, Mich., a corporation of Michigan
Application May 16, 1952, Serial No. 288,174
17 Claims. (Cl. 30—248)



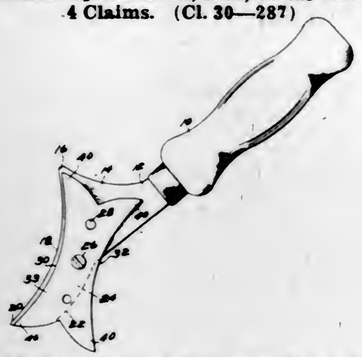
1. A shears comprising a relatively fixed handle, a pivot pin fixedly supported in said handle, a pair of blades pivotally mounted on said pivot pin, a spring pressed member mounted on said pivot pin and resiliently retaining said blades in engagement, a second handle pivotally connected to said fixed handle for movement in a plane transversely of the plane of movement of said blades, a toggle linkage connecting said blades, said linkage being disposed to the handle side of said pivot pin, said linkage when extended closing said blades and when collapsed opening said blades, said second handle having a driving portion engaging the actuating pivot of said linkage for actuating said blades, said actuating pivot snugly fitting the driving portion of said second handle to insure straight line actuation, and a spring confined between said handles for normally collapsing said linkage.

2,662,286
GRASS SHEARS WITH LATERAL HANDLE ACTION
Lucien I. Yeomans, Chicago, Ill., assignor to Midwest Tool and Cutlery Company, Sturgis, Mich., a corporation of Michigan
Application May 16, 1952, Serial No. 288,175
14 Claims. (Cl. 30—262)



1. A shears comprising a pair of blades disposed in criss-cross relation, a pin pivotally connecting said blades at their point of intersection, said blades to one side of said pin presenting cutting edges and to the other side of said pin presenting handle portions, means separate of said blades, said separate means supporting said pin and resiliently retaining said blades on said pin, means carried by said pin and confined thereon by said separate means for limiting movement of said blades in both directions, said pin retaining all of said components in operative relation, and means carried by said last named means for locking said blades in closed position.

2,662,287
MULTIPOINT REMOVABLE BLADE KNIFE
Alan C. Ferguson, Southbridge, Mass., assignor to Hyde Manufacturing Company, Southbridge, Mass., a corporation of Massachusetts
Application September 18, 1950, Serial No. 185,444
4 Claims. (Cl. 30—287)



1. A blade, and a blade holder and guard therefor comprising a handle and a tang, a long projecting nose on the tang and a lateral projection thereon intermediate the handle and the end of the nose, the edge of the holder between the end of the nose and the lateral projection being concave, a blade having opposite concave cutting edges, and means to hold the blade on the holder with one concave cutting edge inset from and guarded by the concave edge of the holder, the other concave cutting edge being partially exposed.

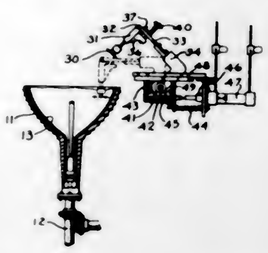
2,662,288
DENTURE
Charles McNally, Pawtucket, R. I.
Application October 2, 1952, Serial No. 312,797
12 Claims. (Cl. 32—3)



1. An artificial denture having legs, means for holding the denture in place on the gums comprising the legs of the denture being provided with cavities in the gum-contacting side thereof along the molar ridge-engaging portion, an arcuate tube embedded in the denture connecting the cavities and provided with an opening along its length, said denture having a recess about said opening, a covering valve closing said opening to sustain a partial vacuum created in said cavities.

2,662,289
GLASS SEVERING APPARATUS
James W. Giffen, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Original application August 1, 1949, Serial No. 107,945. Divided and this application November 29, 1951, Serial No. 258,935
3 Claims. (Cl. 33—21)

2. In an apparatus for forming a groove in the inner surface of a hollow glass article following formation thereof and while the glass is still workable, a carrier, resilient means holding said carrier in one of two alternative positions, a member pivoted to said carrier and having associated therewith a freely rotatable grooving disc, means for turning said member to a position for engagement of the disc with the article,



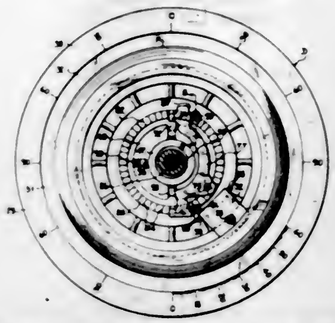
said means thereafter moving said carrier against the action of said resilient means to force said disc into the article surface, and means for effecting relative movement between the article and the disc to form the groove in the article surface.

2,662,290
MEASURING-MARKING SPACE GAUGE
George Haister, New York, N. Y.
Application July 27, 1948, Serial No. 41,002
1 Claim. (Cl. 33—41)



In a device of the kind described, comprising a body of rigid, lightweight material having beveled upper sidewalls, and a cylindrical opening at the lower end, said opening being of sufficient diameter and depth to receive an ordinary lead pencil, and a set screw extending laterally through the lower sidewall of the body to retain said pencil therein, and having a series of straight prongs protruding vertically from the top of the body, said prongs being rigidly and accurately fixed in position at predetermined distances apart from each other and forming an integral part of the body, said prongs being formed of hardened metal of sufficient diameter to be inflexible, the tips of said prongs being tapered to a fine but rigid point.

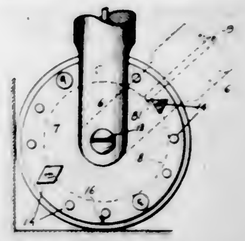
2,662,291
DRAFTING MACHINE
Charles Hubbard Little, Cleveland, Ohio, assignor to Universal Drafting Machine Corporation, Cleveland, Ohio, a corporation of Ohio
Application May 3, 1947, Serial No. 745,800
15 Claims. (Cl. 33—79)



7. In combination, two relatively rotatable members, one of said members having locating abutment means thereon, the other of said members having a plurality of locating abutment means thereon each providing a pair of spaced contact points located at opposite sides of a normal from a plane connecting the same and passing through the axis of relative rotation between said members, a unitary indexer member having locating abutment means on one side thereof engageable with said abutment means on the first of said relatively rotatable members and a second locating abutment means on the opposite side thereof selectively engageable with a pair of said spaced contact points of one of said abutment means on the second of said relatively rotatable members, and means for moving said indexer member to move said second abutment means thereon into and out of engagement with said spaced contact points of a selected one of said abutment means on the second of said relatively rotatable members, one of said abutment means having a surface inclined with respect to the direction of movement of said indexer member and said abutment means on opposite sides of said indexer member having parts spaced from each other in the direction normal to the direction of movement of said indexer member a distance greater than the minimum distance between said abutment means on the first of said relatively rotatable members and said spaced contact points of a selected one of said abutment means on the second of said relatively rotatable members to wedge said indexer member between said abutment means on said relative rotatable members when in engagement therewith and prevent rotation of said relatively rotatable members in opposite directions.

2,662,292
SPACE MEASURING MEANS
Willard C. Pickard, Cedar Rapids, Iowa
Application May 6, 1949, Serial No. 91,651
1 Claim. (Cl. 33—141)

In a measuring device, a rod-like handle having a forked opening in one end thereof, a measuring wheel mounted for rotation within the forked opening, a cam in the form of an involute spiral disposed adjacent one face of the wheel for rotation therewith, a rod-like cam follower mounted for longitudinal reciprocation within the handle, and a spring within the handle urging the follower into contact with the cam, the wheel having a plurality of indicia thereon including a starting mark and a corner correction mark, the corner correction mark being positioned approximately one radian to the rear of the starting mark and the cam step being positioned approximately 192 degrees to the rear of the starting mark.

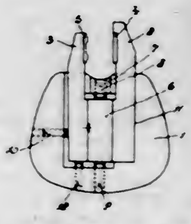


2,662,293
MICROMETER AND ATTACHMENT
Le Moyne M. Rutherford, Ypsilanti, Mich.
Application July 3, 1952, Serial No. 297,065
8 Claims. (Cl. 33—164)



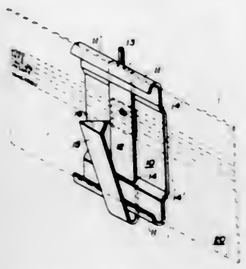
1. In a micrometer of the class described, in combination, a frame, a column fixed thereto and having indicia thereon, a stem movable with respect to said column, light transmitting barrel surrounding said column and connected to said stem, indicating means coordinated with the indicia aforesaid, and a source of light for said barrel.

2,662,294
MECHANICAL GAUGE
Adrianus Brandt, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application November 6, 1951, Serial No. 255,019
Claims priority, application Netherlands March 13, 1951
3 Claims. (Cl. 33—168)



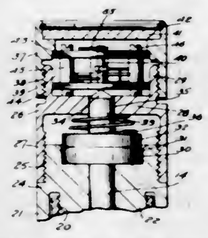
1. A gauge comprising a U-shaped housing, two measuring beams fitted in said housing, a trapezoidal intermediate piece in said housing between said two beams, means to adjust said intermediate piece in a direction parallel to the longitudinal axis of said measuring beams, and means to adjust one of said measuring beams in the direction of the longitudinal axis of said one measuring beam.

2,662,295
GAUGE
Paul E. Heal, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application December 22, 1950, Serial No. 202,328
9 Claims. (Cl. 33—169)



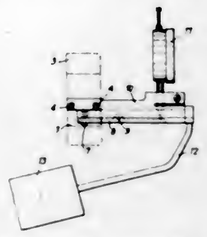
1. A depth indicating and recording apparatus comprising a base member, said base member being adapted to hold transversely slidable a recording strip element in contiguous relation thereto, a depth indicating member consisting of a feeler element and a shank, said shank being longitudinally and slidably mounted on said base member, a punch member superposed upon said depth indicating member and pivotably mounted to the shank of said depth indicating member on an axis transverse to said shank, a marking means affixed adjacent to the free end of said punch member, said marking means overlying and coacting with said base member.

2,662,296
DEPTH GAUGE
James A. Stedman, Cranston, R. I., assignor to Central Tool Company, a partnership
Application December 3, 1952, Serial No. 323,744
2 Claims. (Cl. 33—172)



1. In a depth gage, an internally threaded barrel, a cross piece mounted on the lower end of the barrel, a rotatable thimble having an outer shell extending over the barrel and an inner shell threadedly engaging the barrel threads, said barrel and thimble having cooperating calibrations; the thimble inner shell having a central longitudinal bore and the cross piece having a bore in alignment with the inner shell bore, the upper end of the thimble having a central recess of greater diameter than the thimble inner bore, a depth rod slidably mounted in said aligned bores and having a head slidably seated in said recess, a cap at the upper end of the thimble providing a chamber, a multiplying mechanism in said chamber including a movable pointer, spring means normally pressing said depth rod downwardly, and means actuating the multiplying means on upward movement of the depth rod.

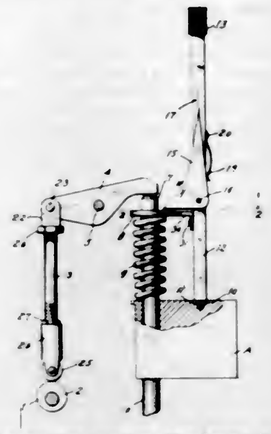
2,662,297
GAUGE FOR TESTING OUT-OF-ROUNDNESS AND DIAMETERS OF CYLINDRICAL HOLES
Georg E. Reicherter, Esslingen (Neckar), Germany
Application December 5, 1950, Serial No. 199,302
Claims priority, application Switzerland December 5, 1949
6 Claims. (Cl. 33—178)



1. A gauge for measuring the diameter of a bore having a substantially horizontal axis, comprising, in combination, an elongated beam adapted to extend into the bore to be measured; a plurality of feeler members mounted on a portion of said beam and being distributed on opposite sides of said beam portion and adapted to engage opposite parts of the surface of the bore; a lever turnably connected intermediate its ends to said beam and having one free end portion located opposite said beam portion and an opposite free end portion located distant from said beam portion; an additional feeler member connected to said one free end portion of said lever and being adapted to engage a portion of the bore surface located between the opposite parts of the bore surface; dial means mounted on said beam distant from said portion thereof and engaging said opposite end portion of said lever to be operated by turning movement thereof with respect to said beam; and weight means connected to said beam for locating the center of gravity of the entire gauge below said beam portion, at least a part of said weight means being located on the side of said feeler members opposite from said dial means, so that when the gauge is located within a substantially horizontal bore with said one end portion of said lever and said additional feeler member beneath said beam portion, the gauge will stably rest against the bore surface without being engaged by the operator to give a steady dial indication of the bore size.

2,662,298
FUEL VALVE TIMING GAUGE
Unus P. Cole, Glendale, Calif.
Application June 14, 1952, Serial No. 293,574
1 Claim. (Cl. 33—180)

A gage for timing the fuel injection valves of an internal combustion engine having cam operated connections controlling the operation of said valves and a plunger in each connection having a cylindrical shoulder thereon, the engine casing having recesses therein, said valve timing gage including: a stem manually seatable in one of the recesses of the engine casing adjacent to and parallel with any one of said plungers, said stem having a graduation thereon, a guide on the stem having a circular recess therein of a size fittingly to engage the edge of the shoulder of the plunger correctly to maintain the stem manually held in position relative to the plunger, a lever pivotally mounted on the stem, one end of said lever being laterally extended to rest on the shoulder of the plunger, the other end of the lever forming a pointer for registration with said graduation, and a spring urging the lever into engagement with the shoulder.



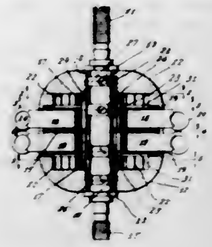
2,662,299
PATTERN GRADING TOOL
Jack J. Goodman, Bronx, N. Y.
Application March 30, 1953, Serial No. 345,659
12 Claims. (Cl. 33—189)



1. A pattern grading tool comprising a short tapered handle having a rectangular block secured to the tapered end of the handle, and two parallel rows of sharp ended pins projecting from the underside of the block wherein the first pin of one row is in lateral alignment with the first pin of the other row, and each succeeding pin of the first row is spaced equally apart from the other pins of the row, the second succeeding pin of the second row is spaced to the rear of the first pin a distance equal to one-half of that spacing each pin in the first row, and the pins succeeding the second pin in the second row are spaced equally apart from one another a distance equal to that spacing each of the pins of the first row.

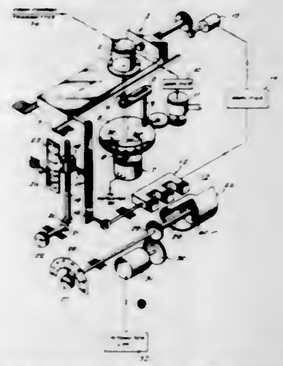
2,662,300
THREAD-GAUGING DEVICE
Charles E. Foster, Indianapolis, Ind.
Application September 9, 1950, Serial No. 183,953
5 Claims. (Cl. 33—199)

5. A thread-gaging device, comprising a gage spindle, a spool rotatably mounted on said spindle, a pair of tapes wound in the same direction on said spool and simultaneously withdrawable therefrom by opposite movements of their free ends to rotate the spool in one direction, a ratchet interconnecting the spindle and spool for joint rotation when the tapes are withdrawn but permitting free rotation of the spool relative to the spindle in the tape-winding direction, and means



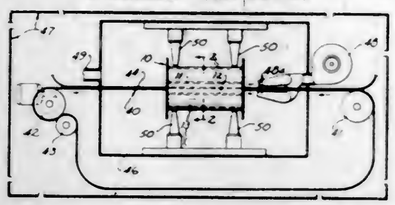
biasing said spool for rotation in the tape-winding direction.

2,662,301
GYROSCOPIC COMPASS CORRECTION SYSTEM
Lennox F. Beach, Sea Cliff, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application November 21, 1951, Serial No. 257,539
6 Claims. (Cl. 33—226)



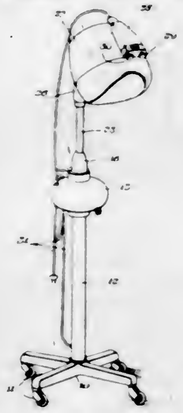
4. The combination with a gyroscopic compass for mobile craft of apparatus for providing compass-derived heading data corrected for the northerly speed error of said compass, said apparatus comprising a first rotatably-mounted member, a second rotatably-mounted member, variable motion means interconnecting said members and adapted on rotation of one of said members to effect a simultaneous rotation of the other through a different angular distance depending on the spacing of said members, and servomechanism means adapted to space said members in accordance with measures of craft speed and latitude, said last-recited means comprising a pick-off element adapted to be displaced from a zero signal output condition thereof in accordance with craft speed, means responsive to the signal output of said element and connected to move the mounting of one of said members for spacing said one of said members relative to the other, adjustable motion-transmitting means connecting said mounting to said element in follow-up relation, and means for adjusting said adjustable means in accordance with a measure of craft latitude, whereby on rotation of said first member in accordance with uncorrected heading said second member is rotated through an angular distance proportional to corrected heading.

2,662,302
METHOD AND APPARATUS FOR DRYING FILM BY DIELECTRIC HEATING
Jack B. Cunningham, North Hollywood, and Frank Wilburn, Burbank, Calif.; said Wilburn assignor to said Cunningham
Application February 7, 1950, Serial No. 142,774
2 Claims. (Cl. 34—1)



1. The method of film drying that includes: initially reducing the film to be dried to substantially a temperature of 32° F., and continuously passing said film through the electric field of a high frequency cavity resonator at a rate of speed to increase the temperature of said film while passing through said resonator to a final value which is substantially in excess of normal atmospheric temperature but below the temperature at which the film is adversely affected.

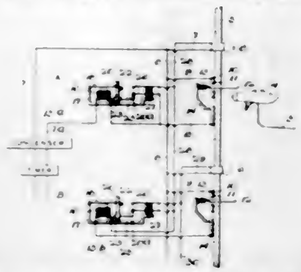
2,662,303
HAIR DRIER
Carmel Myers, New York, N. Y.
Application February 11, 1952, Serial No. 270,991
6 Claims. (Cl. 34—87)



1. An electric dryer comprising a portable stand, a standard vertically movable on said stand, an electric motor mounted on said stand for causing such movement, said motor having an internally threaded tubular shaft and said standard being threadedly telescoped therein, a drying head secured to said standard and circuit means including a control for reversely energizing said motor to raise and lower said standard and drying head.

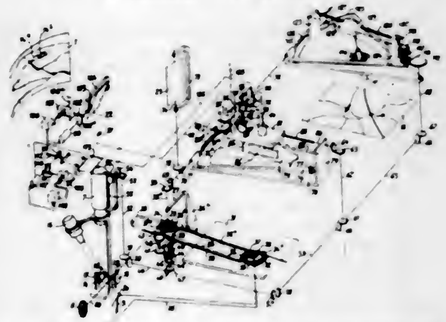
2,662,304
FLIGHT TRAINING APPARATUS
Charles W. Soulé, Reno, Nev., assignor to Jessie Chess Soulé, Washington, D. C.
Original application November 15, 1946, Serial No. 709,974. Divided and this application November 23, 1951, Serial No. 258,725
4 Claims. (Cl. 35—12)

1. An apparatus for training aviation students, comprising, in combination, a device simulating an airplane and responsive to control by the student to simulate the movement of airplane in flight, a rod projecting from the front of said device, a switch actuator on the tip of the rod, a stationary non-conductive panel mounted in front of said actuator and having openings, a series of spaced electric indicator lamps on said panel arranged to delineate a course of geographic flight to be followed by the student, and means for operating said lamps in sequence, said means comprising switch means for each lamp and including a conductor ring and a switch bar



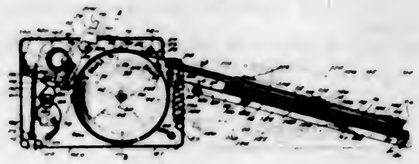
projecting through the ring and a related opening in the panel, the switch bars for successive lamps adapted to be selectively engaged by said actuator; and line conductors and a relay connected in circuit with each of said lamps and the conductor ring and bar of said switch means, and a circuit closer operated by said relay to maintain the circuit of its related lamp closed, and to also set up a successive relay, line conductors and switch means for the next lamp of the series to be electrically responsive to the movement of its related switch bar by the progressive movement of said actuator.

2,662,305
DEVICE FOR THE GUNNERY INSTRUCTIONS
Gustave Charles Auguste Alric, Troyes, France
Application September 7, 1950, Serial No. 183,594
9 Claims. (Cl. 35—25)



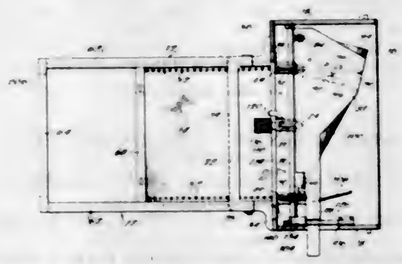
1. Device for the gunnery instructions on a moving target comprising a substantially vertical screen and a substantially horizontal plane representing a piece of ground, an orientable model simulating a moving target, means for displacing said model, means for projecting an image of said model on said vertical screen, means for transforming the displacements imparted to the model into displacements of said means for projecting the image of the movable target on the screen, means associated with said image projecting means for projecting on the plane a luminous spot representing the moving target, a sighting telescope representing the gun firing on the moving target, means for pointing this telescope in azimuth and elevation, means for directing to said vertical screen a beam of light representing the trajectory of a projectile supposedly fired by said gun, means for adjusting said directing means in dependence on the azimuth and elevation of said telescope, and means associated with said directing means for projecting on said plane a luminous point representing the point of intersection of the trajectory with the ground.

2,662,306
READING-TRAINING DEVICE
Archie J. McMaster, Deerfield, Ill., assignor to Elizabeth A. Simpson
Application September 1, 1950, Serial No. 182,743
8 Claims. (Cl. 35—35)



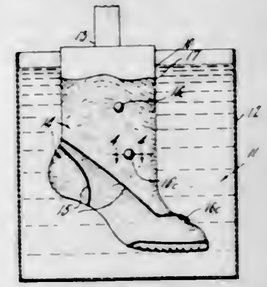
1. In a reading-training device, in combination, a rotatable drum, a flexible shutter member wound upon the drum and having the outer end thereof extending tangentially from the drum, mutually engaged fastening means on the drum and on the inner portion of the shutter member disengageable by radially outward motion of said inner portion of the shutter from the drum, means coupled to the drum operable to rotate the drum in a direction to unwind the shutter from the drum, and a removable stop member engaging the drum to fix an extreme unwinding rotational position of the drum short of the position wherein the fastening means are at the point of tangency of the shutter to the drum, whereby the inner end of the shutter remains in fixed position on the drum when the removable stop member is in place, but may be removed from the drum for replacement by contained unwinding rotation thereof upon removal of said stop member.

2,662,307
READING-RATE DEVICE
Elizabeth A. Simpson, Chicago, Ill.
Application April 18, 1951, Serial No. 221,558
12 Claims. (Cl. 35—35)



1. In a reading device comprising a line-indicating member having a straight edge, guide means supporting and guiding the line-indicating member for movement in a direction perpendicular to the straight edge, drive means coupled to the line-indicating member to drive the line-indicating member in said direction, a reading material support, and means connecting the guide means and the reading material support to hold the guide means and the reading material support in such relative position that said motion of the line-indicating member progresses the straight edge over successive lines of reading material which may be placed on the reading material support, the improvement wherein the means connecting the guide means and the reading material support comprises a rigid linking member, a pivotal connection connecting the guide means and the linking member, and a pivotal connection connecting the linking member and the reading material support, whereby the path of the line-indicating member may be maintained parallel to reading material resting on the reading material support despite variations of the distance between the line-indicating member and the reading material support made to accommodate varying thicknesses of reading material, and the line-indicating member may be swung away from the reading material support for replacement or turning of pages of the reading material.

2,662,308
PLASTIC, RUBBER OR LIKE ARTICLE WITH INTEGRAL FASTENING MEANS
Justin Loewengart, New York, N. Y.
Application April 10, 1952, Serial No. 281,614
4 Claims. (Cl. 36—7.3)

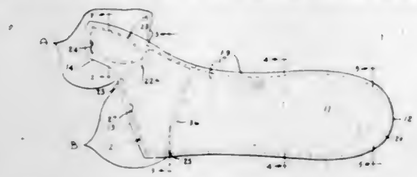


1. An article made of stretchable plastic, rubber and like material comprising a body having a base surface outlining the contour of the article in finished form, at least one tubular projection terminating in a closed end and integral with said body and positioned to extend beyond the surface of the latter and formed as an inherent part thereof, the wall thickness and flexibility of said body and of said projection being substantially equal, at least in the vicinity of the projection, and such that said projection is inherently flaccid, and a discoidal insert removably confined in said projection and lodged in the closed end thereof, said insert being dimensioned so as to be at least in part larger than the unstretched inside width of said tubular projection at said closed end, whereby said material of said projection is conformed to the contour of said insert and stretched about the latter and slightly below a part thereof, to thereby give form retaining property to said projection while said insert remains therein and to removably hold the insert therein.

2,662,309
ADJUSTABLE ORTHOPEDIC INSOLE
Dudley J. Morton, New York, N. Y., assignor to Professional Research Products, Inc., New York, N. Y., a corporation of Delaware
Application August 22, 1952, Serial No. 305,752
3 Claims. (Cl. 36—71)

1. An article of manufacture comprising an insole adapted to underlie a human foot and hav-

ing a front extension adapted to extend only under the forward end of the first metatarsal bone of the foot comprising a top member, a bottom member, means securing said members permanently together adjacent the edges thereof but leaving an open pocket formed between said members and underlying said front extension and a second open pocket underlying that portion of



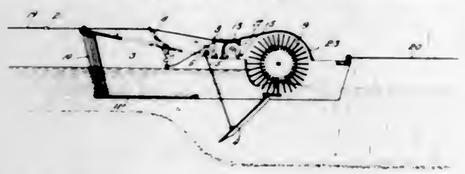
the insole below the shafts of all the metatarsal bones from a point immediately back of the heads of all the metatarsals, said pockets adapted to receive pads of varying thicknesses, to compensate for shortness or laxity of the first metatarsal and to diffuse pressure over an area extending behind and transverse said insole and extending laterally across said insole substantially the full width thereof.

2,662,310

AUTOMATICALLY REVERSIBLE CURRENT-DRIVEN CHANNEL CLEANER

Carlos de Villota, San Sebastian, Spain

Application January 4, 1951, Serial No. 204,447
7 Claims. (Cl. 37—75)



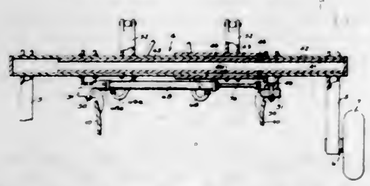
7. A channel-cleaning machine comprising a float, cleaning means secured to the float, a channel cable and current-operated means on the float engaging the cable to move the float in either direction along the cable, and limiting means including stops near the upstream and downstream ends of the cable for reversing the direction of the float so that the current causes alternate upstream and downstream movements of the float.

2,662,311

HYDRAULIC ADJUSTMENT FOR V-TYPE DITCHING BLADES

Robert C. Chattin, Boise, Idaho

Application November 15, 1946, Serial No. 709,967
4 Claims. (Cl. 37—98)



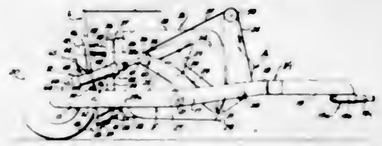
1. In combination with a ditcher, a longitudinally extensible transverse axle assembly, said axle assembly comprising, a first tubular axle section extending toward one end of said axle assembly and a second axle section extending toward the opposite end of said axle assembly, said latter section comprising three encompassing concentric courses, the inner one of said courses being long and engaging in overlapping arrangement the bore of the first mentioned axle section, the intermediate course being short to provide a space between the adjacent ends of it and the first mentioned axle section, and the other course overlying the first mentioned axle section and slidably engaging in its bore the periphery of the first mentioned axle section, said intermediate course and said first tubular axle section each supporting one of a joined pair of articulated wings.

2,662,312

SCOOP ADJUSTMENT FOR CARRY-TYPE SCRAPERS

Harald D. Kadz, Glendale, Calif., assignor to Kay-Brunner Steel Products, Inc., a corporation of Delaware

Application March 30, 1948, Serial No. 17,980
7 Claims. (Cl. 37—126)



1. In a carrying scraper, a front frame adapted for connection with a tractor, a rear frame having wheels supporting the rear end thereof and being pivoted at its forward end to the rear end of the front frame, arms on the front frame extending upwardly and rearwardly therefrom, arms on the rear frame extending upwardly and forwardly so as to intersect the arms on the front frame, fluid pressure responsive means connected to the rear frame and to the arms on the front frame for raising and lowering the confronting ends of said frames, a bowl having a scraping blade thereon, links pivoted to the arms on the rear frame and depending therefrom with their lower end pivoted to the bowl so as to support the bowl within said frames for bodily movement therewith as well as for tilting movement relative thereto; and a latch for securing said bowl against tilting movement whereby said bowl will be caused to occupy a carrying position or a loading position in which said blade has scraping contact with the ground, according as the confronting ends of said frames are raised or lowered by said fluid pressure responsive means, and wherein when said latch is operated to release said bowl when in loading position, the force exerted rearwardly on said blade by the ground under forward movement of the bowl, will operate to tilt the bowl into a dumping position.

2,662,313

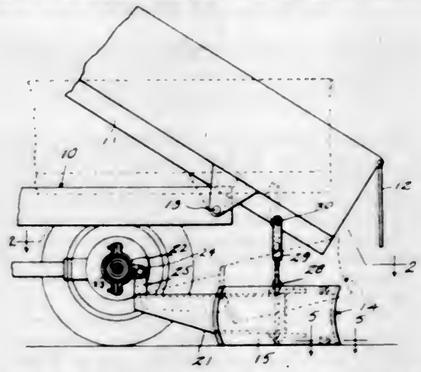
DIRT LEVELER ATTACHMENT FOR DUMP TRUCKS

Lester M. Mowe, Mildred V. Mowe, and Melvin L. Mowe, Astoria, Oreg.

Application September 23, 1948, Serial No. 50,844
1 Claim. (Cl. 37—172)

A material moving attachment for a truck having a mobile chassis and a rockable dump body having a dumping end, comprising a U-shaped frame, means pivotally securing the forward ends of said frame to the rear axle housing of said chassis for pivoting in a vertical plane said means including a pair of clamps secured to opposite ends of said axle housing, ears extending from said clamps, upright ears extending from the rear

end of said frame and pivotally connecting said first ears and said upright ears, a pair of angularly converging plow blades carried by the rear end of said frame and disposed in underslung relation to said dumping end, means releasably securing said blades to the rear of said frame said means including spaced appertured ears extending horizontally from the inner side of each blade, said frame having apertures therein aligned with the apertures in said ears and bolts extending through said aligned apertures, said bolts having eyes at their upper ends, a pair of rigid adjustable



links pivotally connected to said body connecting the eyes of said bolts to the body rearwardly of the pivotal connection of the body with the chassis, whereby raising of said body to dumping position will lower said blades to operative position, and rocking of said body to horizontal position will dispose said blade in raised inoperative position, said links being adjustable to a length greater than the vertical spacing between said body and said blade when said body is in dumping position to permit said blade to cut below the floor level, and means detachably securing the converging ends of said blades together.

2,662,314

LAND LEVELER

Jesse G. Lindeman and Curtis V. Edwards, Yakima, Wash., assignors to Deere & Company, Moline, Ill., a corporation of Illinois

Application June 10, 1948, Serial No. 32,126
10 Claims. (Cl. 37—180)



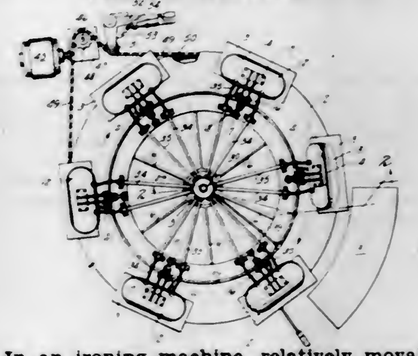
1. A land leveler comprising an elongated frame, supported at its front and rear ends, a transverse leveling blade carried by said frame for generally vertical movement into and out of operating position, an extension blade hingedly connected at its laterally inner end to each end of said leveling blade, a wing hingedly connected to the laterally outer edge of each extension blade and adapted to be swung into a forwardly disposed operating position or into a position in back of the associated extension blade, locking means for holding each wing in operating position relative to the associated extension blade, each of said extension blades and said wings being adapted to be folded into inoperative position in back of or extended substantially in alignment with said leveling blade, and means connectible between said frame and each of said locking means, when the latter hold said wings in forwardly extended position relative to the associated extension blades, for holding both the latter and said wings in operative position.

2,662,315

MULTIPLE IRONING MACHINE

John H. Leef, Minneapolis, Minn.

Application July 9, 1951, Serial No. 235,748
6 Claims. (Cl. 38—5)



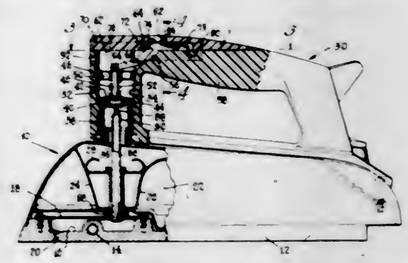
1. In an ironing machine, relatively movable cooperating supporting elements, one being a track and the other a wheel structure engaging said track, an ironer mounted for movement with one of said elements and having operating mechanism disposed adjacent the other said element, an actuator also disposed and movably supported adjacent said other element for engagement with and actuation of said operating mechanism, and relatively shiftable interengaging means on said other element and said actuator for selectively positioning and adjustably connecting said actuator to said other element whereby the time of operation of said ironer may be predetermined and set for actuation thereof upon said relative movement of said elements.

2,662,316

STEAM IRON

Arthur A. Johnson, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut

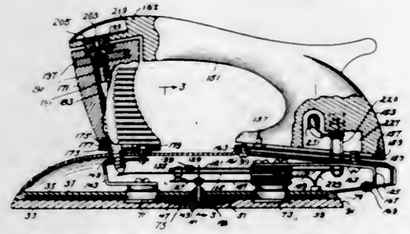
Application July 18, 1950, Serial No. 174,427
17 Claims. (Cl. 38—77)



1. A steam iron having a base assembly including a heated sole plate and a water reservoir; a handle mounted on and above the base assembly for carrying and manipulating the iron, said handle being formed with a vertical member provided with an upright filling passage therethrough and having an open top, the other end of the passage communicating with said reservoir; a valve seat in said passage remote from the upper open end thereof; a closure valve mov-

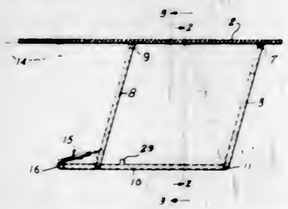
ably mounted in said passage and resiliently engaging said valve seat; a closure on the handle for closing the open end of the filling passage; and means for mounting the closure for lateral movement away from position above the open end of the filling passage to provide, while the base assembly is in substantially horizontal position, unobstructed access to the filling passage for the free fall of water into the passage and through the passage past the valve into the reservoir when the valve is open.

2,662,317
ELECTRIC IRON HANDLE CONSTRUCTION
John R. Gomersall and Murray Ireland, Elgin, Ill., assignors to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Original application April 2, 1945, Serial No. 586,099, now Patent No. 2,585,928, dated February 19, 1952. Divided and this application February 18, 1952, Serial No. 272,222
6 Claims. (Cl. 38—90)



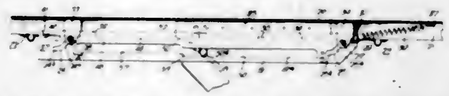
2. An electric iron comprising an electrically heated iron body, a casing secured on said iron body, a handle of heat-insulating material having front and rear end portions and an intermediate handle grip portion, a handle support integral with the rear end portion of said handle secured on said casing and supporting the front end portion and grip portion of said handle in spaced vertical relation to said casing, and an upstanding front column having its lower end secured on said casing and having its upper end portion underlying said front end portion of said handle in vertically spaced adjacent relation.

2,662,318
FOLDING IRONING BOARD
Edwin E. Foster, Austin, Tex.
Application May 10, 1949, Serial No. 92,345
10 Claims. (Cl. 38—117)



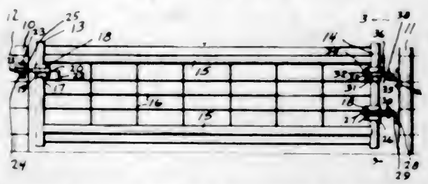
1. A support for ironing board comprising a U-shaped base frame adapted to rest on a floor, a pair of legs having cross braces and pivotally connected at one end to one arm of the frame on axes parallel to the arm, a single leg pivotally mounted at one end to the frame adjacent to its other arm, an ironing board pivotally connected on the other ends of the legs on axes transverse to its length for longitudinal shifting movement relative to base frame, and relatively movable elements connected to the frame and one of the legs and having interengaging parts thereon to limit their relative movement thereby to limit longitudinal shifting of the board.

2,662,319
IRONING TABLE
Harvey E. Hortman, Jr., Southampton, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 19, 1950, Serial No. 201,623
4 Claims. (Cl. 38—123)



1. In an adjustable and collapsible ironing table, a table top, a pair of pivotally interconnected crossed legs providing an adjustable and collapsible support structure for said top, a fixed pivot connection between said top and the upper end of one of said legs, a sliding pivot connection between said top and the upper end of the other leg, manually controllable latch means for retaining the sliding pivot in different positions to provide different height adjustments of the table, and means for limiting the movement of the sliding pivot in the direction away from said fixed pivot to prevent collapse of the table while in use, said limiting means comprising a gravity-actuated stop member which gravitates to an operative position in the path of movement of said sliding pivot when the table is set up for use and which gravitates to an inoperative position out of the path of movement of said sliding pivot when the table is tilted upwardly.

2,662,320
COMBINATION HORIZONTALLY AND VERTICALLY SWINGING GATE
William J. Barnard, Onawa, Iowa
Application January 28, 1952, Serial No. 268,542
1 Claim. (Cl. 39—82)



In combination with a gate for use between a pair of vertically positioned fence posts, pivotal means attached to said gate for providing swinging movement of said gate in a horizontal plane, further pivotal means attached to said gate for providing alternate swinging of said gate in a vertical plane, including a pair of brackets attached to one of said posts, said brackets including pivoting pins upon which said gate swings for horizontal movement, a socket member attached to the other of said posts, a further socket member attached to said gate, a pin received through said sockets for providing vertical movement of said gate, a pair of spaced plates attached to one of said brackets through which one of said pins passes, a cylindrical member attached to the other of said brackets, a further pin passing through said cylindrical member, a normally vertically positioned flange attached to said further pin, an eye member attached to said further pin for receiving the other of said pins, a further

flange substantially at right angles to said vertical flange, said flanges having openings whereby swinging movement of said gate in a vertical plane will cause said openings to register, whereby a pin can be inserted in said openings to retain said gate in raised position after such vertical swinging movement.

2,662,321
TAG
Hans F. Stoffel, Scarsdale, N. Y.
Application December 10, 1949, Serial No. 132,370
3 Claims. (Cl. 40—21)



1. A tag of ductile metal comprising a cup member having a peripheral hollow rim open toward the center of said cup member, a dish-shaped, concave flap connected with said cup member and foldable against the latter, said flap terminating in a peripheral edge provided with radial slits extending from the latter and terminating in inner ends positioned in an area of said flap remote from the center thereof, whereby sector pieces are provided which are bendable about respective axes extending between adjacent inner ends of said slits, said peripheral edge being of a size sufficient to enter said open cup member and when said flap is folded against the latter is caused to straighten out said sector pieces about said respective axes, whereby the diameter of said peripheral edge is increased while said sector pieces are straightened out to less than the largest inner diameter of said hollow rim without being curled in the latter.

2,662,322
MOUNTING FOR INITIALS OR ORNAMENTAL MEMBERS
Joseph D. Gosselin, Attleboro, Mass., assignor to Swank, Inc., a corporation of Delaware
Application April 7, 1950, Serial No. 154,660
3 Claims. (Cl. 40—140)



3. In combination a mounting member having a hollow chamber with a lip extending from one wall to a point spaced from an opposite wall and leaving an entrance slot into the chamber, an ornamental member having a tongue to extend through said slot into said chamber and having a resilient latch projecting therefrom, said latch engaging said lip, the inner end of the tongue being offset in the same direction as the latch to engage the inner surface of the wall of the hollow chamber from which the lip extends to prevent the ornamental member from rocking in the slot.

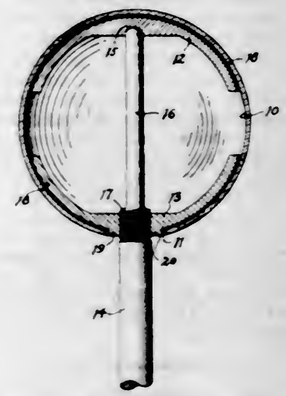
2,662,323
MOUNTING FOR INITIALS OR ORNAMENTAL MEMBERS
Leslie W. Cheney, North Attleboro, Mass., assignor to Swank, Inc., a corporation of Delaware
Application April 7, 1950, Serial No. 154,663
2 Claims. (Cl. 40—140)

1. In combination a mounting member providing a hollow chamber having a bottom wall and opposite back and front walls with a lip extending from the back wall toward the opposite front wall but spaced therefrom leaving an entrance slot into the chamber, an ornamental member having a tongue extending through said slot into said chamber and having an opening with a bordering edge in the tongue, a resilient latch member in the chamber positioned beneath said lip,



said latch member comprising a plurality of individual latches in side by side relation, at least a portion of said latches entering the opening in said tongue and engaging the edge of the opening distant from said ornamental member thereby locking the tongue within the chamber, and at least another portion of said latches engaging said tongue adjacent said opening and forcing the tongue against the front wall.

2,662,324
FLAGPOLE ORNAMENT
John K. Granacher, San Francisco, Calif.
Application June 30, 1952, Serial No. 296,429
2 Claims. (Cl. 41—16.5)



1. A flagpole ornament, comprising a hollow spherical ball with a single staff accommodating aperture at the under side thereof, a supporting staff having an intermediate thread carrying portion and an extending end of reduced diameter rounded at its end, an arcuate clamping member having a surface configuration conforming with the interior surface of said spherical ball and a dimple for engagement with the rounded end of said staff, a second arcuate member likewise having a configuration conforming to the interior surface of said spherical ball and a threaded central opening adapted and arranged to be threaded upon the threaded portion of said staff, said first and second arcuate members being dimensioned to be individually inserted into the interior of said spherical ball through its single staff accommodating aperture, whereby after assembly within said spherical ball said arcuate members may be moved away from each other and into a firm supporting engagement with the interior of said spherical ball as said supporting staff is turned relative thereto.

2,662,325
EXPOSITION WATER COLOR PROCESS
Kallady Shreedharan, Malacca, Malaya
Application December 3, 1948, Serial No. 63,377
2 Claims. (Cl. 41—26)

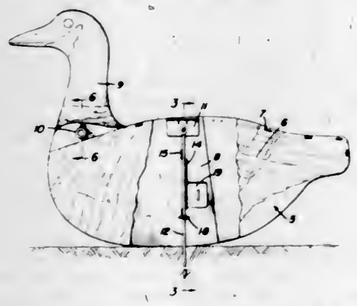
1. A coating process comprising transferring wax lines from a tracing sheet to a base, next removing the tracing sheet, and then applying a water solution of an opaque pigment to the base.

2,662,326
SHOTGUN MUZZLE DEVICE
Edward Baden Powell, Pasadena, Calif.
Application December 18, 1948, Serial No. 66,075
5 Claims. (Cl. 42—79)



1. A shot gun compensator and variable choke comprising a choke tube adapted to extend forwardly at the forward end of a shot gun barrel substantially in axial alinement therewith, said tube having a forward constrictable portion containing longitudinal slits extending rearwardly from its forward end, said forward slit portion of the tube including a rear section containing a forwardly and gradually tapering bore and a forward section containing a forwardly and gradually flaring bore, said tube containing aperture means to the rear of said slits through which the gases of combustion are vented from the tube upon firing, a tubular cage disposed about said choke tube, said cage and tube being constructed and arranged to provide a passage extending longitudinally therebetween and in open communication with said aperture means in the tube, outlet means in the wall of said cage leading exteriorly from said passage to the atmosphere, and means for variably constricting the forward slit portion of the tube, said tube having hinge means near the rear of said slits at which the tube flexes upon said constriction.

2,662,327
COLLAPSIBLE DECOY
Niels P. Petersen, Provo, Utah
Application June 6, 1949, Serial No. 97,367
1 Claim. (Cl. 43—3)



A decoy comprising an elongated hollow collapsible body including flexible sides with longitudinal upper edges connected together for flexing of said sides into spread apart position, an inverted U-shaped hanger secured within the upper portion of said body, a stake extending downwardly out of said body between said sides for driving in the ground to anchor said body and having an upper end pivoted in said hanger adjacent said upper edges for swinging of the stake longitudinally of the body into the same when not in use, a spreader plate pivotally mounted on said stake for rotation thereon between said sides into crosswise position relative to said body with side edges opposed to said sides, and resilient catches on said sides inside the body engaging said side edges of the spreader plate with a snap action when the spreader plate is in crosswise position and coacting therewith to maintain said sides spread apart, said spreader plate being swingable by said stake lengthwise of said body after disengagement of the catches from said side edges and whereby said body may be collapsed.

2,662,328
FISHING TACKLE RETRIEVER
Max Oyler, Salmon, Idaho
Application February 1, 1950, Serial No. 141,716
4 Claims. (Cl. 43—17.2)



3. A fishing tackle retriever for fishing lines comprising a vertically elongated plate having a V-shaped cut in the lower portion thereof, a tube, said plate having a substantially central opening therein communicating with the V-shaped cut, the edge portion of the plate at the opening being formed with a grooveway, said tube being flanged for disposition in the grooveway, and a core disposed through the tube and having portions at its ends abutting the ends of the tube, said tube having a slot therein, said core having a groove therein registering with the slot, said V-shaped cut in the plate, said slot and groove forming an avenue for entry of a fishing line into the core, and said plate being substantially S-shaped in vertical section.

2,662,329
CASTING ROD
Clyde E. Henry, Nevada, Mo.
Application February 21, 1952, Serial No. 272,748
6 Claims. (Cl. 43—19)

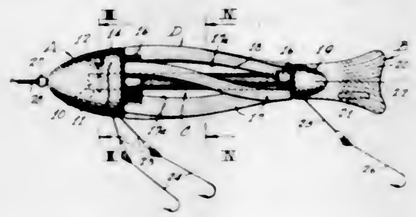
1. A spring mechanism for a casting rod comprising a cup shaped housing having a tubular extension for receiving a handle, a plate forming a cover for said housing, said plate having a torsion spring mounted thereon, a pin carried by said housing, said torsion spring being received within said housing and having an end hooked about said pin, means securing said cover to said housing for independent rotation, a tubular extension on said plate for receiving an inner

end of a rod, and stop pins carried by said plate for engagement with said first mentioned pin



and said one end of said spring to limit rotation of said plate.

2,662,330
FISH LURE
Alvin R. Ogburn, Crescent City, Calif.
Application July 7, 1950, Serial No. 172,443
2 Claims. (Cl. 43—42.16)



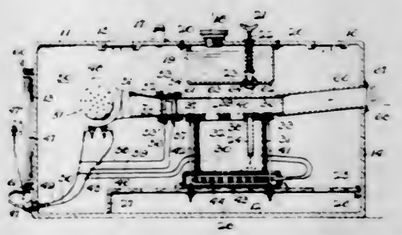
2. In a fish lure, spaced-apart head and tail sections arranged in axial relation with one another, these sections having confronting bases, each defining a peripheral rim, a shaft mounted axially of the lure, and interconnecting the head and tail sections, these sections and the shaft coacting to define a circumferential groove encircling the shaft, a rotor mounted in this groove, and being journaled for turning on the shaft, the rotor including a plurality of helical blades spaced one from the other, and extending substantially the entire distance between the bases of the head and tail sections, these blades being fashioned to turn the rotor as the lure is advanced through water, each blade having an outermost longitudinal edge whose opposing ends are disposed adjacent to the peripheral rims of the bases of the head and tail sections, respectively, the blades when rotating providing a fish body representation for the lure bridging between the head and tail sections, the head section tapering forwardly from its base to define a nose, the tail section flaring outwardly to the rear of its base to define a caudal fin, the outermost longitudinal edge of each blade being formed with a reverse curve blending into the outer surfaces of the head and tail sections substantially without interruption, thereby providing during rotation of the blades a simulated fish representation extending from end to end of the lure.

2,662,331
FISHHOOK DISLODGING AND EXTRACTING INSTRUMENT
Benjamin F. Borup, Huntington Park, Calif., assignor of one-half to Bob F. Borup, Huntington Park, Calif.
Application January 29, 1951, Serial No. 208,346
1 Claim. (Cl. 43—53.5)



A fish hook dislodging and extracting instrument comprising a rigid rod member having a rigid shank, the latter being essentially straight and having helically coiled terminal means at its outer end adapted to be "screwed" on a flexible leader and manually forced into end thrust engagement with a fish hook, said shank having a finger-ring on its inner end, the intermediate portion of said shank having a substantially U-shaped leader wrapping and snubbing member, the latter embodying opposed coplanar limbs connected at corresponding ends by way of a curvate bight portion and connected at opposite ends to the respective complemental shank portions by way of right angled bends.

2,662,332
INSECTICIDE FOGGER
George W. McIntire, Hagerstown, Md.
Application October 16, 1950, Serial No. 190,373
3 Claims. (Cl. 43—129)

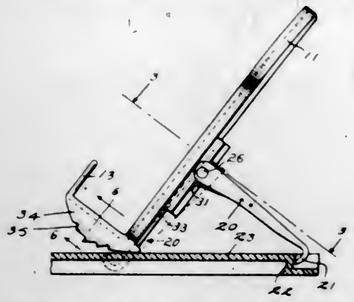


3. An insecticide fog producer comprising a casing having air inlet openings, an insecticide reservoir supported from the interior side of the top of the casing between said openings, a dispensing tube connected to the reservoir and extending from the interior of the reservoir part way toward the bottom of said casing, valve means in the end of the said tube in the reservoir, means for adjusting said valve to regulate the discharge of insecticide to be converted into fog, fog generating means positioned in the casing comprising a heated plate for vaporizing insecticide delivered thereto from said tube, and means for dispensing said vaporized insecticide by aspiration from the casing as an insecticide fog.

2,662,333
BOOKHOLDER
William James Bargen, Waukegan, Ill.
Application September 7, 1951, Serial No. 245,517
2 Claims. (Cl. 45—80)

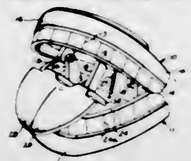
1. A book holder for use on a flat surface capable of being tilted and having an elongated channel therein comprising a plate, a right angular lower wall extending forwardly from the lower edge of said plate, an upwardly extending flange carried by the forward edge of said wall,

a rearwardly offset vertical guide carried by said plate, a slide engaging said guide, said guide having a plurality of vertically spaced apart keeper notches, a bracing member pivotally carried by said slide, a downwardly directed hook carried by the rear free end of said bracing



member, and a locking lug carried by said bracing member engageable in a selected keeper notch for locking said slide relative to said guide said hook being engageable in said channel to hold the holder against sliding when said surface is tilted.

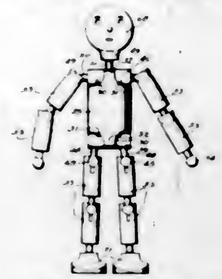
2,662,334
DENTURE SIMULATING TOY
Irving H. Fishlove, Chicago, Ill.
Application November 14, 1949, Serial No. 127,020
1 Claim. (Cl. 46—1)



A hand held and operated amusement device comprising upper and lower elements in the representation of upper and lower dentures of a human being or animal, said elements being hinged rearwardly thereof each of said elements having an engaging surface forwardly of the hinge, one of said engaging surfaces adapted to be engaged by the thumb of a hand extending from the rear, the other of said engaging surfaces adapted to be engaged by a finger of the hand extending from the rear, a depending arm rigidly associated with said upper element and extending into the space of said lower element, a tongue element having a rearward downwardly directed angular extension hingedly connected at its free end to the end of said depending arm, said tongue element—when said upper and lower elements are in closed position—being fully retracted within the space defined by said upper and lower elements, said tongue element—when said upper element is pivotally moved to open position—being simultaneously projected forwardly.

2,662,335
SECTIONAL TOY FIGURE
George H. Calverley, Racine, Wis., assignor to Whitman Publishing Company, Racine, Wis., a corporation of Wisconsin
Application January 19, 1950, Serial No. 139,339
8 Claims. (Cl. 46—22)

1. A sectional toy figure comprising the combination with a body and articulate limb elements, said body having a transverse cylindrical bore opening at the end of the body, portions of the body comprising the walls of the bore being relieved to substantially the lateral depth of the bore, of an intermediate piece providing one element of an articulate joint between the body and certain of the limb elements, said piece compris-



ing a cylinder receivable into the body bore and neck portions extending laterally from the cylinder, said cylinder being rotatable in the bore to permit the neck portions to be swung into the relieved portions of the body, said neck portions carrying balls for articulate connection with another element of the joint comprising a socketed limb.

2,662,336
INFANT'S MARBLE TOY OR RATTLE
Albert M. Zalkind, Arlington, Va.
Application May 17, 1950, Serial No. 162,485
10 Claims. (Cl. 46—43)



3. An infant's toy comprising a straight helical conduit of uniform diameter and a sphere encaged therein, and engageable with the inwardly facing surfaces of said conduit, said sphere having a diameter approximating the internal diameter of said conduit, the pitch of said conduit being at least one-half the diameter of said sphere whereby when said conduit is held substantially vertically said sphere will follow a spiral path therethrough motivated by gravity.

2,662,337
SOUNDING WHIRLING DISK TOY
Harry Sensenig Burkey, Lancaster, Pa.
Application October 28, 1950, Serial No. 192,675
1 Claim. (Cl. 46—63)



A whirling disc toy comprising a pair of discs each formed with a pair of opposed holes, located on a diameter and each being at a distance of ⅓ of the radius from the center, a notch formed on one side of each of said discs adjacent the periphery of said disc and extending slightly inward along a radial line, a rubber strip equal

in width to the width of said notch and in thickness to the depth of said notch, cemented in said notch so as to present a smooth exterior surface and extending outward from the periphery ¾ of an inch, an endless cord having two runs passing through said pairs of opposed holes, said discs being mounted on said cord so that in untwisted condition the rubber strips are diametrically opposed to each other whereby rotation of the discs by twisting of the cord causes a vibration of said rubber strips.

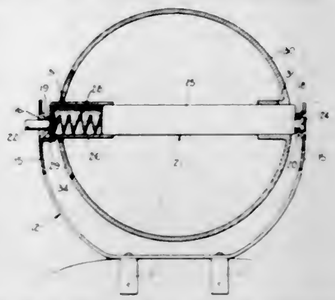
2,662,338
MARIONETTE TOY
William (Bil) Britton Baird, New York, N. Y.
Application August 15, 1951, Serial No. 241,917
3 Claims. (Cl. 46—126)



1. In a marionette toy of the type having a torso with a movable head and jointed arm and leg members with manipulating cords attached to each of said arm and leg members and to each side of the head for controlling the movement of said head, arm and leg members, the combination which comprises a stiff but resilient generally L-shaped wire, means for pivotally attaching the free end of the long leg of said L-shaped wire to the upper portion of the back of the torso of said marionette toy, and for holding a portion of the long leg of the wire at an acute angle with the said upper portion of the back of the torso to position the short leg a set distance above the top of said marionette toy when the toy is held in standing position, a pair of cross bars rotatively mounted on the short leg of said L-shaped wire, means for spacing the cross bars on said wire and said cross bars being attached at their end portions to said cords whereby rotation of the cross bars results in movement of various parts of said marionette toy and tangling of the cords is substantially eliminated.

2,662,339
MULTIFACED DOLL
Wanda L. Paul, New York, N. Y., assignor of one-half to Carl J. Anderson, New York, N. Y.
Application January 9, 1947, Serial No. 720,988
8 Claims. (Cl. 46—153)

1. A multifaced doll comprising a body and head mounting means thereon including upwardly projecting yoke arms provided with bearing openings therein; a telescoping rod of equilateral triangular cross section having journals secured fast on each end thereof and disposed in said



openings; and detent stop means projecting inwardly from one of the arms and adapted to engage one of the lateral faces of the rod.

2,662,340
DOLL EYES
Benjamin Louis Samuels and Oscar Doster, Toronto, Ontario, Canada, assignors to Reliable Plastics Co., Limited, Toronto, Ontario, Canada, a corporation of Ontario
Application December 16, 1949, Serial No. 133,292
3 Claims. (Cl. 46—169)



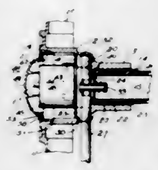
1. A hollow doll-head consisting of four molded plastic one-piece units, said units being a front head-section and a rear head-section which are fixed to each other, a turnable eye-set and a retaining bar, said doll-head having a longitudinal axis, said front head-section having spaced laterally directed bearings at the rear face of its front wall, said bearings being located on a line which is transverse to said longitudinal axis, said front wall having spaced eye-openings located on said transverse line intermediate said bearings, each bearing having a lateral bearing recess which is open at its rear end, said bearings also having rearwardly directed sockets located above and below said bearing recesses, said eye-set having pivot-lugs located turnably in said bearing-recesses and having eye-members which have simulations of eyes and which are located turnably in said eye-openings, said eye-set also having biasing weight means which maintain said simulations in said eye-openings when said doll-head is in upright vertical position and which turn said eye-set to shift said simulations out of said eye-openings when said head is tilted rearwardly from said upright vertical position, said retaining bar having studs which are located in said sockets, said retaining bar overlying said pivot-lugs to maintain said pivot lugs turnably in said bearing-recesses, said rear head-section having a forward projection which substantially abuts said retaining bar to keep it in assembled position.

2,662,341

TOY STEERING WHEEL AND GEARSHIFT

Louis Solomon, Chicago, Ill., assignor to Hyman A. Lubin and Samuel V. Adelman, as trustees, under a certain trust agreement dated October 31, 1942, made by Louis and Edna Solomon as settlors, for the benefit of Howard Donald Solomon and Gary Bruce Solomon

Application April 21, 1952, Serial No. 283,369
1 Claim. (Cl. 46—175)



A steering wheel and gear shift toy comprising a wheel having spokes and a hub, said hub having an open top, closed side walls, a bottom floor, and a lower portion, said lower portion having closed side walls and an open bottom, a metal member fitted within the open bottom portion of said lower portion and having smooth side walls and an open bottom, a post with its upper end extending through the open bottom portion of said metal member and removably engaging the smooth side walls of said metal member, whereby said wheel is freely rotatable on said post, a member for attaching the toy to a desired support removably attached to the lower end of said post, a gear shift lever rod having a ball at its outer end, said hub having a slot in one of its side walls, the inner portion of said rod extending through said slot and positioned on the bottom floor of said hub, a pin extending through said metal member and said rod, a pair of stop members at the side edges of said slots, another pair of stop members correspondingly opposite said first stop members, a pair of raised portions between each of said pairs of stop members, said rod adapted on side movement being applied to said ball to pivot on said pin over said raised portions and between said pairs of stop members to simulate gear shifting, a plate positioned on the top edges of said stop members, said top edges being higher than said rod, said plate having a plurality of spaced punched up contact portions a noisemaking bellows positioned on said plate, between said contact portions a button positioned over said bellows at the open top of said hub, said hub having a peripheral flange, a metal ring pressed within said hub and having side walls adapted to fit against the side walls of said hub by friction grip, said ring having a top inwardly extending flange positioned above said button and adapted to engage the flange of said button and prevent said button from accidental displacement from the toy.

2,662,342

EDGING AND TRACKING MEANS FOR WALKWAYS AND THE LIKE

Arthur Peterson, Havertown, Pa.

Application May 8, 1950, Serial No. 160,707
4 Claims. (Cl. 47—33)

1. For use in conjunction with a prepared plot of ground having a trench dividing said plot into at least two distinct areas with one area serving as a lawn and the other area serving as a vegetable or flower garden, driveway, walkway or the like; a new article of manufacture comprising a trench lining and trimmer guiding form of sheet material, said form being channel-shaped in cross-section and the walls thereof being resilient and the inherent resiliency being such that the upper edges of the walls are sprung together and are thus normally maintained in close-spaced proximity so that the



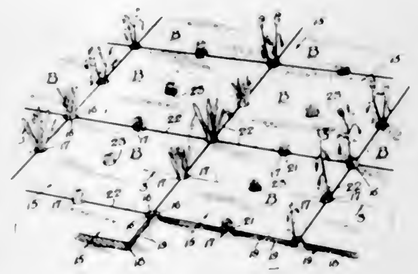
mouth of the channel is thus virtually closed, said walls being adapted to be momentarily sprung apart when a cutting disk or an equivalent grass cutting instrumentality is wedged between said walls.

2,662,343

PAVEMENT PROVIDING FOR PLANT GROWTH

Robert S. Rice, Los Angeles, Calif.

Application June 30, 1950, Serial No. 171,453
1 Claim. (Cl. 47—33)



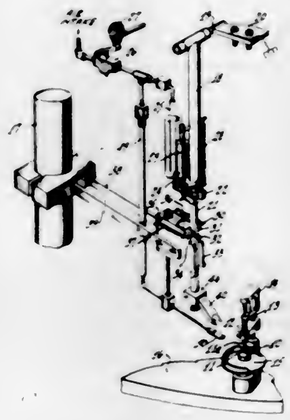
A pavement comprising a plurality of rigid paving blocks arranged in rows disposed in side-by-side relation to each other, said blocks being of geometric outline and disposed in edge-by-edge relation to each other, each block being a rigid slab of even thickness throughout substantially its entire area and having flat upper and lower surfaces, marginal edges of the slab being formed with outwardly extending upper portions constituting flanges flush with the upper surface of the slab and spaced upwardly from the lower surface of the slab and defining marginal recesses under the flanges, each recess extending the full length of the flange under which it is located, the flanges along meeting edges of adjoining blocks of the pavement being in close proximity to each other and the recesses under the flanges of confronting side edges of adjoining blocks cooperating with each other and forming unobstructed water-receiving channels each extending the full length of a row of blocks, and corners of the blocks being formed with recesses extending the full thickness of a block, the said corner recesses of the blocks of adjoining rows registering with each other and forming continuous vertically disposed plant-receiving openings extending entirely through the pavement the full depth of the water-receiving channels and of a cross sectional dimension not less than the width of the water-receiving channels and connected with each other by the said water-receiving channels.

2,662,344

EJECTING MECHANISM FOR GLASS FORMING APPARATUS

Horace B. Knox, Belleville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 24, 1950, Serial No. 151,623
6 Claims. (Cl. 49—1)



1. In a glass forming apparatus having a mold for forming a glass body to predetermined shape and movable in a predetermined path the improvement comprising, an ejecting mechanism adjacent said path, said mechanism comprising an elongated support, said support including a tubular member and a shaft telescoping into said tubular member from one end thereof, said tubular member being pivotally mounted at the other end thereof, a finger extending from the free end of said shaft, means for moving said shaft longitudinally with respect to said tubular member, and means for deflecting said support to dispose said finger in said path for ejecting said glass body from said mold.

3. An ejecting apparatus for ejecting a flat glass body from a processing apparatus in which it is stuck, comprising in combination a nozzle for directing an air blast to said body with a predetermined force, a mechanical ejector for engaging said body and applying thereto a releasing force greater than said predetermined force and pneumatic means for providing said air blast and for actuating said ejector, said pneumatic means including a cylinder having a piston in engagement with said ejector, and a valve having an inlet and an outlet, said inlet being connected to a source of air under pressure, said outlet being connected to said cylinder and said nozzle, whereby on opening said valve, said air blast is immediately provided and said ejector is actuated shortly thereafter on pressure build-up in said cylinder.

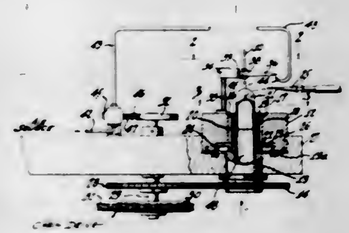
2,662,345

APPARATUS AND METHOD FOR JOINING GLASS TUBULATIONS TO GLASS BULBS

John V. Ruggiero, Jersey City, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 23, 1951, Serial No. 212,399
11 Claims. (Cl. 49—2)

1. Apparatus for joining parts capable of becoming plastic in response to heat, comprising means for supporting one of said parts, means for heating a selected portion of said one of said parts to render it plastic, a holder for releasingly supporting another of said parts coaxially with and above said one of said parts, said holder having a vane, said vane being mounted at one end thereof for pivotal movement on a horizontal axis and having a mass for pinchingly engaging said another of said parts by the weight of said mass, said vane having a flat under-surface, and means acting on said vane for releasing said holder, said last-named means comprising an air nozzle adjacent said under-surface and adapted to direct an air jet to said under surface for pivotally moving said vane against the weight of said mass thereof, for releasing said another of said parts, whereby said another of said parts falls by gravity to said selected portion for fusion therewith.



10. Method of joining a glass exhaust tubulation to the closed end of a cup shaped bulb, comprising the steps of (1) supporting said bulb against rectilinear axial movement with the axis thereof extending vertically and with said closed end extending upwardly, (2) releasingly supporting said tubulation in spaced relation above said closed end and coaxially with respect to said bulb, (3) axially rotating said bulb and tubulation in a plurality of cycles of rotation, (4) simultaneously releasing said tubulation for free fall during a relatively small portion of each of said cycles of rotation and guiding the tubulation in said fall in a path coaxial with respect to said bulb, whereby said tubulation is caused to move solely in response to gravity in a series of relatively short distance falls to a central portion of said closed end and in abutment relation therewith with reduced impact shock, (5) and heating said central portion to fuse said tubulation to said closed end of the bulb.

2,662,346

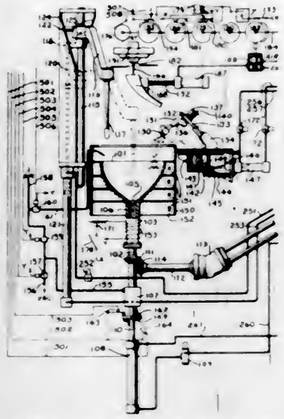
METHOD AND APPARATUS FOR FORMING GLASS

James W. Giffen, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application August 1, 1949, Serial No. 107,945
40 Claims. (Cl. 49—29)

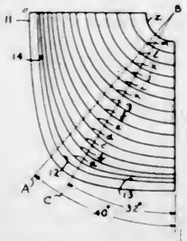
1. The method of forming a hollow glass article having a tubulation, which includes introducing a charge of molten glass into a mold having a hollow portion and a communicating tubular portion with such glass charge arranged across the junction of the tubular portion and the hollow portion, rotating the mold about the axis of its tubular portion to centrifugally distribute part of the glass charge over the wall of the hollow portion, applying pressure to the part of the glass charge over the tubular portion

to advance glass therein, and subjecting such glass during such advancement to a yieldingly



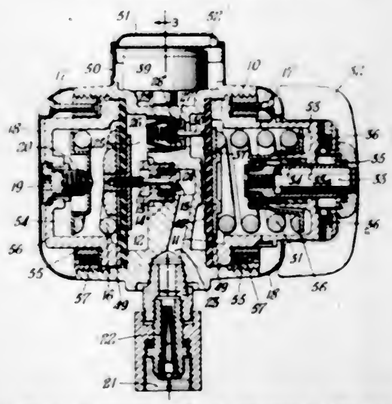
opposing pressure to effect annular extrusion of glass in tubular form.

2,662,347
GLASS FORMING MOLD
James W. Giffen, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application May 5, 1951, Serial No. 224,747
18 Claims. (Cl. 49—65)



1. An open-ended mold in which a generally conical or funnel-shaped hollow glass body, the base or open end of which is noncircular in outline, can be formed by centrifugal distribution outwardly over the wall of its cavity toward its open end of a charge of molten glass deposited adjacent the vertex end thereof, the cross-sectional outline of said cavity in the region extending from adjacent its open end to an intermediate transverse zone being noncircular, the elements of the wall of said cavity terminating at the open end thereof at those points most remote transversely from the axis of rotation of the mold being substantially most remote from such axis throughout said region and the elements of said cavity wall terminating at the open end of the cavity at those points transversely nearest such axis throughout said region, the cross-sectional outline of said cavity in the region extending from said intermediate zone to adjacent its vertex end being noncircular, the elements of the wall of said cavity terminating at the open end thereof at those points most remote transversely from the axis of rotation of the mold being substantially nearest such axis throughout said latter region and the elements of said cavity wall terminating at the open end of the cavity at those points transversely nearest such axis being substantially most remote from such axis throughout said latter region, the elements of said cavity wall terminating at the open end of the cavity at those points most remote transversely from the axis of rotation of the mold being substantially the steepest in the region extending from adjacent the vertex end to said intermediate transverse zone to initially retard the outward movement of the molten glass along such elements, and the elements of such wall terminating at the open end of the cavity at those points transversely nearest the axis of rotation of the mold being substantially the steepest in the region extending from said intermediate zone to adjacent said open end to subsequently retard the outward movement of the molten glass along such latter elements, the cavity wall being thereby so constructed and arranged that the leading edge of the distributed molten glass reaches the open end of the cavity at substantially the same time along its entire perimeter.

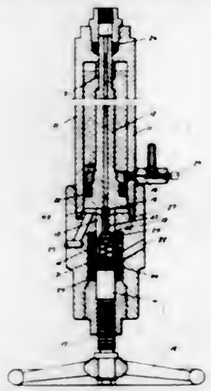
2,662,348
FLUID PRESSURE REGULATOR
Wilgot J. Jacobsson, Plainfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application July 24, 1947, Serial No. 763,374
22 Claims. (Cl. 50—23)



1. A fluid pressure device having a flexible diaphragm, a casing for said device non-rotatably clamping said diaphragm, a spring between said casing and diaphragm, a plate non-rotatably held to said diaphragm between said spring and diaphragm, a valve on the side of said diaphragm opposite said spring, a stem for said valve cooperating with said diaphragm radially within the portion of the plate contiguous the diaphragm, one end of said spring being non-rotatably secured to the plate, a plate with which the opposite end of said spring cooperates, and a spring adjusting screw between said casing and last mentioned plate and with respect to which said plate is freely rotatable.

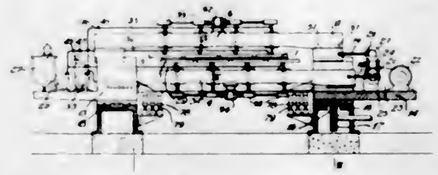
2,662,349
REDUCTION VALVE FOR PRESSURE LIQUIDS
Hilmer Gustav Adolf Åkerlind, Stora Essingen, Sweden, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden
Application August 7, 1947, Serial No. 767,030
6 Claims. (Cl. 50—34)

1. A reduction valve for liquid under pressure comprising a body having a pressure liquid passage extending therethrough with an inlet and an outlet, a valve cage in said passage provided with an inlet valve seat, a valve element in said cage having an inlet valve portion movable onto and off said inlet valve seat to control the flow of liquid through said passage, a pressure chamber forming part of said passage between the inlet valve and said outlet, a piston container, a piston slidable in said container to expand or contract the volume thereof and having its outer face forming part of the wall of said pressure chamber, a confined body of liquid and gas under pressure in said container, means preventing the



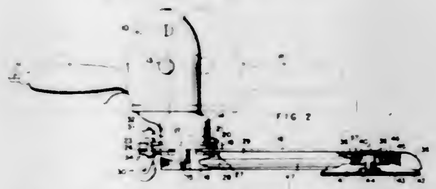
escape of said liquid or gas around said piston into said pressure chamber, means for selectively setting an outward limit position for said piston in order to predetermine the pressure in said pressure chamber beyond which the piston will be moved inwardly against the pressure of the body of liquid and gas in said container, said valve element abutting against said piston and thereby having its inlet valve portion held off its seat when the piston is in its outward limited position, and means tending to return said inlet valve portion to its seat when said piston is moved inwardly.

2,662,350
PROCESS AND APPARATUS FOR POLISHING GLASS
Edmond Joseph Ghislain Laverdisse, Auvelais, Belgium, assignor to Les Glaceries de la Sambre Societe Anonyme, Auvelais, Belgium, a Belgian company
Application March 23, 1949, Serial No. 83,014
Claims priority, application Belgium March 27, 1948
14 Claims. (Cl. 51—56)



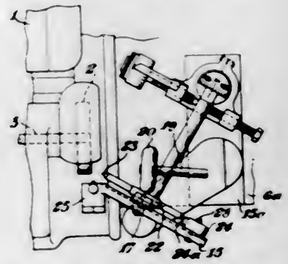
1. A process of simultaneously polishing both sides of a sheet of glass, comprising feeding a glass sheet between sets of upper polishing tools and sets of lower polishing tools supported to rotate on vertical axes, applying adjustable pressure to said tools towards said glass sheet rotating said sets of tools on their vertical axes, imparting to said sets of tools rectilinear reciprocating movements transversely of said sheet; the polishing tools operating on one side of the glass being moved in opposite direction to the polishing tools operating on the other side of the glass.

2,662,351
SURFACE DRESSING MACHINE
Alfred Iobbi, Trevose, Pa.
Application July 2, 1951, Serial No. 234,713
6 Claims. (Cl. 51—177)



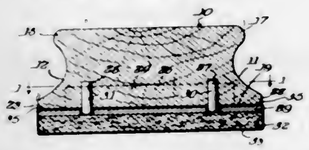
1. A surface dressing machine comprising an electric motor, a handle fixedly secured to and extending outwardly from the side thereof, a relatively low extending casing, means for rotatably securing a portion of the motor to one end of said extending casing whereby the handle carried by the motor may be brought to desired angular relationship with respect to said casing, an abrasive disc journalled at the other end of said casing, and driving means operated by the motor for rotating said abrasive disc.

2,662,352
PRECISION GRINDING MACHINE
Clement Tipton Rhodes, Ascot, England
Application February 16, 1951, Serial No. 211,247
Claims priority, application Great Britain February 23, 1950
1 Claim. (Cl. 51—103)



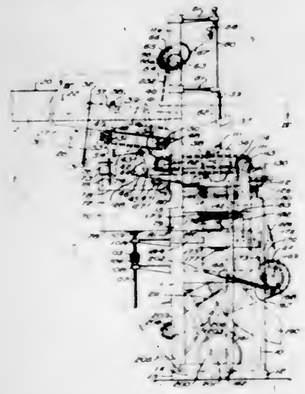
A grinding machine comprising a driven grinding wheel, a block having a V-recess of substantial length adapted to receive a portion of circular cross section of an article to be ground with sides of said portion of the article in contact with the sides of said V-recess and with one end of the article in contact with said grinding wheel, a rotary friction wheel having a resilient rim engaging said portion of the article at the side thereof opposite said V-recess, the axis of said friction wheel and the axis of said portion of the article lying in a common plane and said axes diverging in a direction away from said grinding wheel, and a back stop for the article at the end thereof opposite said grinding wheel, the angularity of the axes of said grinding wheel and said portion of the article providing a resultant force tending to move the article in the direction of and into contact with said back stop.

2,662,353
MAGNETIC ABRASION TOOL
Harry Bergman and Otto Behnke, Chicago, Ill.
Application December 17, 1952, Serial No. 326,508
8 Claims. (Cl. 51—187)



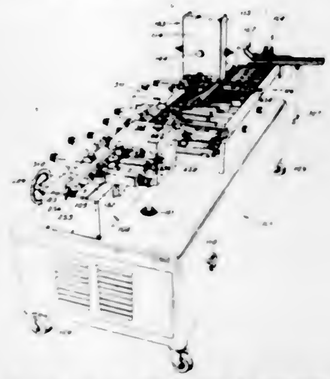
1. An abrasive holder comprising in combination a non-magnetic base member, a magnet mounted thereon on one face thereof and a metallic abrasive holder of substantially the same dimensional area as the face of the base member fitted against the said magnet.

2,662,354
FRUIT WRAPPING MACHINE
Thomas M. Vaughan, Tampa, Fla., assignor to United Paper Company, Tampa, Fla., a corporation of Delaware
Application June 24, 1949, Serial No. 101,059
9 Claims. (Cl. 53—42)



1. A machine for wrapping pieces of fruit or the like, comprising, a feeding chute, means for feeding said pieces along said chute in successively spaced fashion, spaced bars connected to said means, a holder for wrappers adjacent said spaced bars, means for periodically restoring the top level of said wrappers in said holder, a table adjacent the top of said holder having an opening therein, gripping means controlled by said spaced bars for feeding the topmost wrapper from said holder and positioning it over said opening when pieces pass along said chute, said chute having its delivery end positioned over said opening, a twisting drum positioned beneath said opening, said drum being adapted to hold said pieces, an ejector adapted to push said successive pieces into a wrapper positioned over said opening and into said twisting drum, opposed clamping jaws for bunching the flaring edges of each wrapper on each successive piece of fruit pushed into said twisting drum, independent means for separately rotating said drum to twist the ends and edges of said bunched wrapper to close the same, brake means to stop the rotation of said drum, said independent means and said brake means being fixed relative each other and swingably mounted relative said drum, actuating means for said first mentioned feeding means, ejector and clamping jaws, a movable clutch mechanism to vary the speed of said actuating means, drive means for said clutch mechanism, and cam means connected to said actuating means for synchronizing the operation of said drum with the operation of the parts moved by said actuating means.

2,662,355
CARTONING MACHINE
Alexander H. Ross, Fort Mitchell, Ky., assignor, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware
Application February 27, 1947, Serial No. 731,395
31 Claims. (Cl. 53—59)



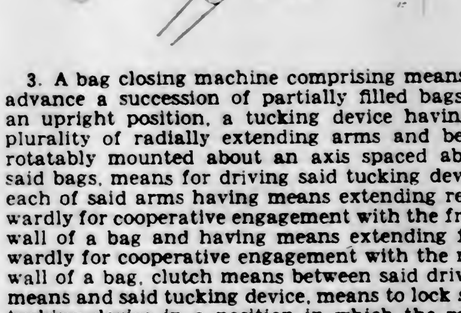
1. In a cartoning machine, a horizontal base; a series of pairs of spaced elements projecting vertically from said base; means for moving said elements continuously along said base, each pair of elements being adapted to engage the sides of a carton to move it along said base with the end flaps extending transversely thereof; an overarm parallel to and overlying said base for engaging the top sides of the carton during their movement; a feeder operable to feed single flattened cartons to successive pairs of said elements; an assembly for holding the cartons flattened until they are engaged by said elements; a stationary parting blade operable to separate the top flap from the side flaps on one end of the carton; a stationary plow operable to raise the side flaps to a near vertical position; means operable to compress the carton between elements of said pairs of elements after said side flaps are raised and while still engaging said stationary plow, whereby the carton is erected and the trailing side flap thereof is closed while the leading side flap is opened; stationary means for closing the leading side flap and subsequently the top flap of the carton.

10. In a cartoning machine, a first conveyor; a second conveyor; means for driving said conveyors; said conveyors being relatively disposed to convey cartons and merchandise respectfully in such relative alignment that the merchandise may be shifted transversely for insertion into the cartons; said second conveyor having means thereon and movable therewith defining a pamphlet receiving slot interposed between the adjacent ends of the cartons and the articles and independently operative to hold advertising pamphlets or the like in alignment with and between the merchandise on said second conveyor and the cartons on said first conveyor; means for automatically placing pamphlets on said pamphlet holding means; and means operable to shift the merchandise transversely from said second conveyor into the cartons on said first conveyor, whereby the merchandise in its movement inserts the advertising pamphlets into the cartons.

30. In a machine of the class described, a magazine comprising a group of vertical guide elements for holding a stack of flattened cartons, said elements being movable in a horizontal plane to accommodate cartons of various dimensions; an elongated horizontal base; a transport comprising at least a pair of endless elements travelling in parallel endless paths each including a curved portion and a portion parallel to said base, each element having a series of perpendicular fingers extending therefrom to engage the leading and trailing portions of the cartons between the fingers of different elements and move them along said base, a mechanism operable to shift one of said endless elements with respect to the others to vary the longitudinal spacing of the fingers carried by the different elements; feeding means operable to feed flattened cartons from the bottom of the stack to the fingers on said transport during the curved portion of their travel; a drive for said transport and said feeding means; means interconnecting said transport and feeding means whereby they operate in timed relationship; means operable to shift said interconnecting means to move said feeding means independently of said transport and thereby change the timed relationship therebetween to accommodate the dimensions of the cartons being handled; a loading unit adjacent one side of said transport and operable to hold at least one of the carton flaps in open position and to insert merchandise into the carton through the same end, said loading unit including merchandise holding buckets having spaced side walls and an interconnecting bottom wall; means to move said buckets parallel to, in transverse alignment with, and at the same time speed as the fingers on said transport; said buckets being of such construction as to establish correct transverse alignment of the merchandise therein for insertion into the cartons irrespective of the size of the merchandise and the cartons; shifting means operable to shift said buckets transversely toward said transport; and plungers operable to eject the merchandise from said buckets and insert it into the carton; the bottom walls of said buckets all being inclined downwardly in one direction toward one side wall of the bucket whereby merchandise articles of different sizes will always lie against the same walls of the buckets for correct alignment with the cartons on said transport.

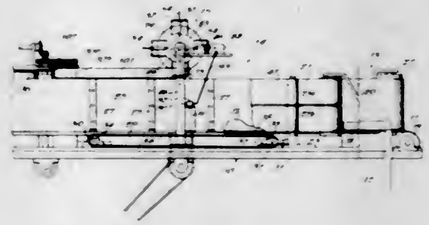
2,662,356
CARTON LOADING MACHINE
Carl R. Swafford, deceased, late of Philadelphia, Pa., by Verlon E. Swafford, administrator, Franklin, N. C., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application February 28, 1952, Serial No. 274,002
11 Claims. (Cl. 53—91)

1. A packaging apparatus for opening and erecting cardboard cartons and loading cans into said cartons, the combination comprising a plurality of carriers movable in spaced relation along a path of travel, carton feed means arranged to deliver a collapsed carton successively to each of the carriers, means for erecting and opening each carton as it is moved on a carrier, a can guide means on each side of the path of travel of the carriers, the guide means being oppositely directed, at least a third can guide means beyond one of the first mentioned can guide means, means for delivering cans in succession to each of the guide means, gate means associated with each of the can guide means for arresting movement of cans through the guide means, cam means associated with each of the guide means, means on each of the carriers for opening a respective gate means as a carton is moved into registration with the guide means, means on the carriers engageable with the leading can



in respective guide means, first to urge the cans from the oppositely directed can guide means into engagement with respective cam means whereby said cans are moved simultaneously into opposite open ends of said carton, said means on the carriers thereafter being engageable with the leading can in the third can guide means to similarly move such leading can into the corresponding end of the carton.

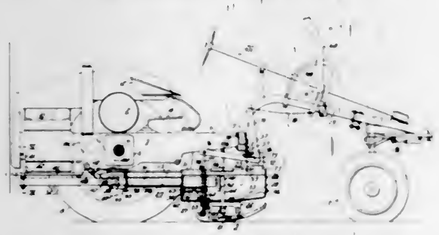
2,662,357
BAG CLOSING MACHINE
Kenneth Stone, Elmhurst, Ill., assignor to Neostyle, Incorporated, Chicago, Ill., a corporation of Nevada
Application April 1, 1949, Serial No. 84,791
9 Claims. (Cl. 53—142)



3. A bag closing machine comprising means to advance a succession of partially filled bags in an upright position, a tucking device having a plurality of radially extending arms and being rotatably mounted about an axis spaced above said bags, means for driving said tucking device, each of said arms having means extending rearwardly for cooperative engagement with the front wall of a bag and having means extending forwardly for cooperative engagement with the rear wall of a bag, clutch means between said driving means and said tucking device, means to lock said tucking device in a position in which the rearwardly extending means of one arm will be engaged by the front wall of a bag so that a portion of said wall will be tucked, and means actuated by the advance of said bag for releasing said locking means after said front wall has been tucked, said clutch means being operative upon displacement of said arm by said bag after said locking means has been released to establish a driving

connection between said driving means and said tucking device to rotate said tucking device at a greater linear speed than the speed at which said bag is advanced, whereby said forwardly extending means of an adjacent arm will engage the rear wall of said bag so that a part of said rear wall will be tucked, said clutch means including means for breaking said driving connection prior to the time that said forwardly extending means engages said rear wall.

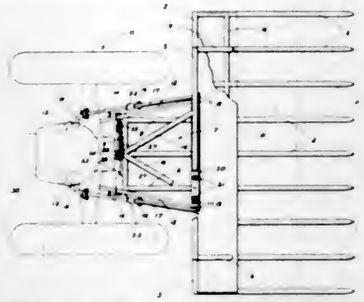
2,662,358
TRACTOR MOWER ATTACHMENT
Willard H. Tanke, La Crosse, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 30, 1949, Serial No. 84,412
15 Claims. (Cl. 56—25)



1. In a tractor having a rotary power take-off element, the combination of a mower attachment comprising, an elongated frame mounted to extend longitudinally of the tractor in underslung relation thereto substantially only through means of first and second supports detachably secured to said tractor and carried, respectively, by opposite end portions of said frame disposed in general alignment longitudinally of the tractor, said frame being flexible sufficiently to afford a limited lateral movement of one end thereof relative to the other end upon loosening the support carried by said one end, said first support being adjustably fixedly associated with said one end of said frame to provide lateral adjustment of said one end of said frame relative to said first support, and a power transmitting means mounted on said frame and presenting a rotary power input element disposed adjacent said one end of said frame in a position such that upon attachment of said frame to the tractor said power input element is disposed in approximate alignment with said power take-off element, and such that an accurate alignment of said elements can readily be effected simply by transversely shifting said one end of said frame an amount afforded by said adjustable support and the inherent flexibility of said frame.

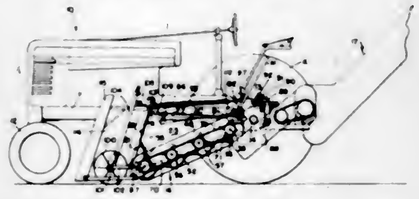
2,662,359
TRACTOR MOUNTED BUCK RAKE
Charles W. Neilsen, Sacramento, Calif.
Application December 26, 1951, Serial No. 263,138
11 Claims. (Cl. 56—27)

1. A buck rake, for rear mounting on a tractor having a power lift type hitch embodying transversely spaced top links and transversely spaced bottom links, comprising a rigid rake unit projecting rearwardly from the hitch, said rake unit including transversely spaced, rearwardly projecting, longitudinal rake bars, means pivotally connecting corresponding top and bottom links to the rake unit at the front in common and in transversely spaced relation whereby the rake unit is tiltable downwardly at the rear, and releasable means between the rake unit and hitch normally



operative to hold said rake against such downward tilting motion.

2,662,360
COTTON STRIPPER
Merrill W. Roscoe, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Original application April 5, 1945, Serial No. 586,780. Divided and this application July 7, 1950, Serial No. 172,529
4 Claims. (Cl. 56—30)

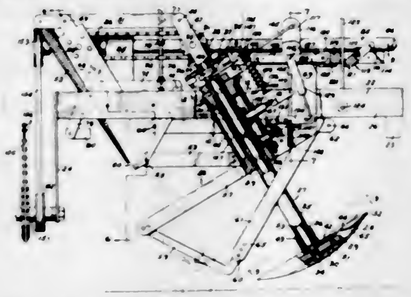


1. In a cotton harvester, the combination including: frame structure; stripping means carried by the frame structure and comprising a pair of side-by-side stripping elements defining between them an elongated slot for receiving cotton plants, said elements being operative to strip cotton upwardly from such plants; cotton-receiving trough means carried by the frame structure alongside the stripping means for receiving stripped cotton from the stripping means; and conveying apparatus on the frame structure cooperative with the trough means and comprising means for causing currents of air to move crosswise of and over the stripping means and toward the trough means for facilitating the transfer of stripped cottom from the stripping means to the trough means, and movable means for positively engaging and moving the transferred cotton along the trough means.

2,662,361
BEET TOPPER
Lloyd Botimer, Vassar, Mich.
Application March 7, 1949, Serial No. 80,068
10 Claims. (Cl. 56—121.46)

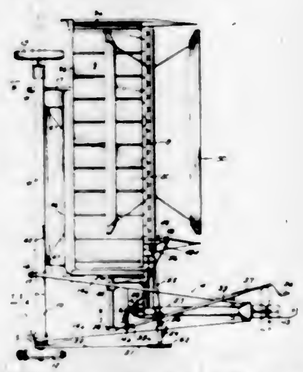
1. Beet harvesting apparatus comprising a frame movable along a row of beets, a supporting member mounted on the frame for movement in up and down directions relative to the frame, a shaft journaled on said member with its axis extending in an up and down direction and having the lower end spaced below the frame, a cutter mounted on the lower end portion of the shaft

for rotation thereby, vertically spaced substantially parallel first and second arms having corresponding ends pivoted to the frame and having the opposite ends pivoted to the supporting member, the distance between the axes of the pivotal connections of the first arm being substantially the same as the distance between the axes of the pivotal connections of the second arm to



permit raising and lowering of the cutter without changing the angular relationship of the shaft to the frame, a driving element supported on the frame for rotation, a driven element mounted on the supporting member for rotation and connected to said shaft, the axes of said elements lying in a common plane parallel to the arms, and means operatively connecting said elements.

2,662,362
ADJUSTABLY MOUNTED PLATFORM FOR WINDROWERS
Donald L. Beasley, Des Moines, Iowa, assignor to Wood Bros. Inc., Des Moines, Iowa, a corporation of Iowa
Application February 18, 1950, Serial No. 144,941
2 Claims. (Cl. 56—208)



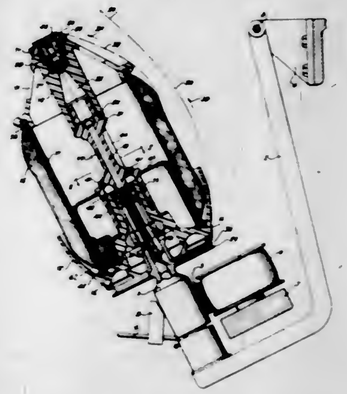
1. A harvester comprising a wheel supported transverse main frame, a transversely extending header frame, a plurality of angularly shaped supports having their one ends pivoted to spaced points along said main frame and their other ends extending around and beneath said header frame and being freely pivotally attached to the underside of said header frame, means for raising and lowering said header frame relative to said main frame, and a leveling linkage for said header frame comprising a first link pivoted to said main frame, a second link pivoted between said header frame and said first link, and a third link pivoted between one of said supports and a medial portion of said second link, whereby said header frame is maintained in the same angular relationship with respect to the ground through its range of vertical movement.

2,662,363
LARGE HAYRAKE
Floyd O. Worden, Alliance, Nebr., assignor to Willis Edna Worden, Alliance, Nebr.
Application June 11, 1951, Serial No. 230,965
10 Claims. (Cl. 56—384)



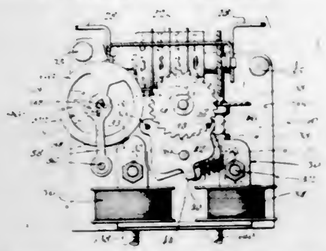
1. A hay rake comprising a rake tooth supporting beam having a central section and end sections pivoted thereto about substantially vertical pivots, a mobile supporting frame comprising a central section and end sections, said frame sections being substantially coextensive, respectively, with said beam sections and respectively hingedly connected thereto about horizontal pivots, said frame sections having pivoted and extensible interconnecting means, and brace means interconnecting said end frame sections and said central frame section, whereby when said brace means are released said end sections may be pivoted to reduce the overall width of the rake.

2,662,364
YARN TENSIONING MEANS FOR TWISTERS
Chadwick B. Kingsbury, Elizabethton, Tenn., assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware
Application September 29, 1949, Serial No. 118,645
9 Claims. (Cl. 57—58.86)



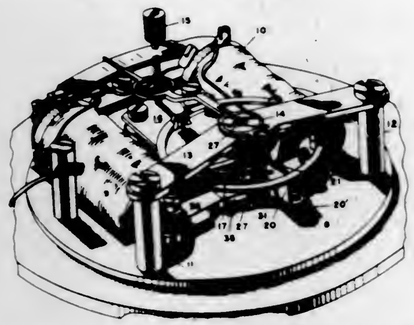
3. A twisting spindle including in combination a high speed rotating member at one portion thereof adapted by its rotation to produce a flow of air, means at another portion of said spindle for tensioning yarn, thread, or the like undergoing twist thereon, and means including a conduit connecting said rotating member with said tensioning means to actuate said tensioning means by the air flowing through said conduit.

2,662,365
HOUR METER
Willard H. Farr, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application October 13, 1951, Serial No. 251,238
3 Claims. (Cl. 58—28)



3. In a time recording device, means forming a frame, a balance staff carried for rotation in said frame, a balance wheel carried by said staff, a single armature means attached to said balance wheel, an electromagnet for attracting said armature, a switch shaft carried by said frame for oscillation therein, a precision snap action switch connected for actuation solely by rocking motion of said switch shaft, and an escapement type mechanism connected to said switch shaft and actuated solely by said balance wheel to rock said switch shaft abruptly from side to side as said balance wheel passes its center of oscillation.

2,662,366
ELECTRIC WATCH
Fred Koehler, Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application October 19, 1951, Serial No. 252,079
6 Claims. (Cl. 58—28)



1. An electric watch movement, comprising a base, an electromagnet mounted on said base, a battery in circuit with said electromagnet carried by said base, a balance wheel, balance staff and hairspring assembly mounted for oscillation on said base, an armature carried by said balance staff adapted to be impulsed at regular intervals by said electromagnet, a coil spring secured to said balance wheel and encircling said balance staff and oscillating therewith, the free end of said spring extending downward parallel to said balance staff, a pair of vertically spaced flanges carried by said balance wheel and formed with notches for receiving the free end of said spring, means for retaining said spring end within said notches, a toothed wheel mounted to rotate parallel to said balance wheel and partially within and between said flanges, the teeth of said wheel being engaged by said spring end during the oscillation of said balance wheel whereby said wheel is progressively indexed, and means actuated by said indexed wheel for making and breaking said circuit between said battery and said electromagnet.

2,662,367
INDIVIDUALLY CORRECTED SECONDARY CLOCK
George L. Riggs, Jr., Springfield, Mass., assignor to Standard Electric Time Co., Springfield, Mass., a corporation
Application July 24, 1953, Serial No. 370,021
7 Claims. (Cl. 58—34)



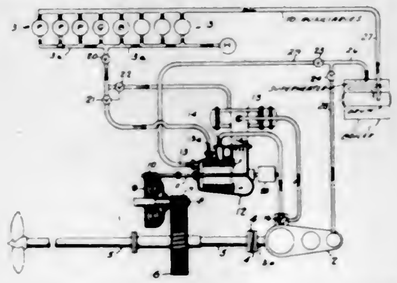
1. Individually corrected secondary clock apparatus comprising in combination, separate drive and reset motors arranged for independent operations, indicating members for indicating minutes and seconds, gear mechanism driven by said drive motor and including a separate drive ratchet and pawl means for actuating each of said indicating members, and reset mechanism driven by said reset motor and including a reset ratchet integral with each of said drive ratchets and pawl means for rotating the reset ratchets and overriding the pawl means of said gear mechanism.

2,662,368
TIME ZONE INDICATOR SYSTEM
Marlow Glenn, San Francisco, Calif.
Application April 2, 1953, Serial No. 346,547
8 Claims. (Cl. 58—43)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In combination, two sources of wave energy broadcasting on different frequencies, said sources of wave energy being of very low power and being located in two adjacent time zones but close to an artery of commerce traversing said time zones and close to the boundary between said adjacent time zones; a vehicle having a receiving set and time-indicating means, said time-indicating means comprising an hour indicator, a minute indicator and a source of power coupled with said indicators to drive both indicators in timed relation to tell time; said hour indicator having at least two hour indicia; said receiving set having means which are sensitive to the signals broadcast from a single one of said sources of wave energy, said receiving set including means acting automatically responsive to a change in condition of said signal-sensitive means to change the hour reading of the hour indicator without affecting the minute indicator, so that said hour indicator automatically and instantaneously indicates a loss of exactly one hour when the vehicle enters the time zone which is generally to the east and automatically and instantaneously indicates a gain of exactly one hour when the vehicle enters the generally westward time zone.

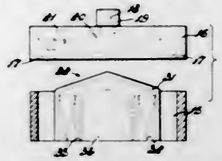
2,662,369
MIXED PRESSURE TURBINE ENGINE COMBINATION
Oscar J. Baggerud, Jersey City, N. J.
Application January 28, 1949, Serial No. 73,243
4 Claims. (Cl. 60—21)



1. In a power plant for steam-propelled vessels, a boiler having a drum and a steam outlet therefrom, a superheater connected with said boiler and having two outlets connected thereto, one outlet being located at a point of high temperature of the superheater and the second outlet located at a point of lower temperature, a reciprocating engine having high and low pressure stages, a plurality of auxiliaries and a multi-stage turbine, a plurality of valved piping connections disposed between the boiler engine, auxiliaries, and multi-stage turbine, and means for connecting the outlet located at the high temperature portion of the superheater to the high temperature portion of the turbine, and means for connecting the outlet located at the lower temperature portion of the superheater directly to said high pressure stage of said reciprocating engine, and means including said piping for connecting the boiler drum outlet directly to said auxiliaries, and means including said piping for connecting the low pressure end of said reciprocating engine and the exhaust end of said auxiliaries with other stages of said multi-stage turbine, whereby the power and efficiency of the plant can be increased over that of the reciprocating engine.

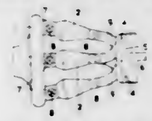
2,662,370
BURNER AND HEATER DEVICE WITH PLURALITY OF WHIRL CHAMBERS
Gomarus Maria Adrianus Cornelis Geeven and Jacobus Albertus Louisa Yzer, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application September 14, 1950, Serial No. 184,798
Claims priority, application Netherlands October 27, 1949
3 Claims. (Cl. 60—24)

3. A heater for a hot gas engine comprising a cylinder, a plurality of ribs radially projecting from said cylinder, a burner casing arranged adjacent said cylinder, a plurality of cylindrical whirl chambers, each being provided with a bottom portion and each having a diameter of not more than 30 mms. annularly arranged in line with said radially projecting ribs, an air supply chamber arranged centrally of said whirl chambers, a conduit for feeding air to said supply chamber, a first plurality of conduits each connected at one end tangentially to said whirl



chamber and at the other end to said supply chamber, an annular passageway in said casing, conduit means for feeding fuel to said annular passageway and a second plurality of conduits each eccentrically connected at one end to said bottom portion of each whirl chamber and at the other end to said annular passageway thereby feeding fuel to said whirl chamber.

2,662,371
INTERNAL-COMBUSTION TURBINE WITH PLURAL GENERATORS SELECTIVELY OPERABLE
Basil C. Rennie, Cambridge, and John H. Weaving, Moseley, Birmingham, England, assignors to The Austin Motor Company Limited, Birmingham, England
Application July 20, 1950, Serial No. 174,812
8 Claims. (Cl. 60—39.21)



1. An internal combustion turbine comprising a variable delivery compressor through which all of the air must flow, means to vary the volumetric capacity of the compressor while maintaining substantially the same outlet pressure therefrom, combustion chamber means supplied with air from said compressor, and a turbine in which heated air from the combustion chamber means is expanded to drive the turbine rotor, turbine nozzles in communication with said combustion chamber means for directing heated air to the turbine, control means whereby the number of turbine nozzles in use can be varied so as to enable the compressor delivery to be reduced to compensate for the reduction in turbine nozzles without altering the operating temperatures and pressures.

2,662,372
ELECTRONIC ENGINE SPEED CONTROL SYSTEM
Franklin F. Offner, Chicago, Ill.
Application August 27, 1947, Serial No. 770,872
25 Claims. (Cl. 60—39.28)



1. In an electrical control system of the automatically rebalancing type for controlling the speed of a rotating member wherein a direct

current voltage proportional to the speed of the member and produced by a generator coupled to the member is continually compared with a reference voltage of selected magnitude, and any difference therebetween sensed to provide a voltage signal that is utilized to alter the speed of the member to restore balance between the two voltages, the improvement which consists in employing the output of a potentiometer as the reference voltage and connecting the potentiometer and field of the generator to the same source of voltage whereby any change in the voltage of the source is reflected equally in the output voltages of both the generator and the potentiometer.

19. In an electrical control system, the combination comprising a pair of input circuits each adapted to have impressed thereon a signal voltage, and switching means connected in each of said circuits to control passage of the signal voltage therethrough, said switching means being arranged upon application thereto of a variable control voltage to pass one of said signal voltages and block the other in accordance with the instantaneous value of said control voltage.

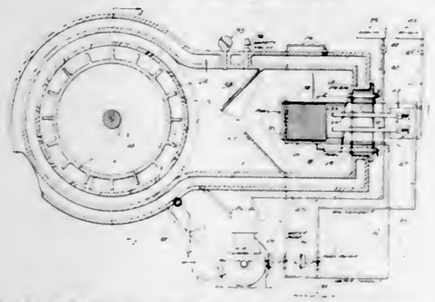
25. In a speed control of the null-seeking type for an engine, means providing first and second signals which vary respectively in accordance with different parameters of engine operation, a cross-over control for selecting one or the other of said signals, a device actuated by the selected signal for adjusting the fuel flow to the engine in such manner as will tend to nullify the selected signal, and means responsive upon attainment of a preassigned condition of engine operation for actuating said cross-over control to cut off one of said signals from said fuel flow adjusting device and cut in the other signal to said device.

2,662,373

COMBINED WATER COOLED ROTARY GAS TURBINE AND COMBUSTION CHAMBER

Peter P. Sherry and John T. Corrigan, Walla Walla, Wash.

Application November 23, 1951, Serial No. 257,853
2 Claims. (Cl. 60—39.55)



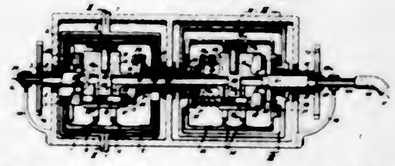
1. A rotary combustion engine comprising a housing, a turbine rotor rotatably mounted in said housing, a casing rigidly mounted in said housing around the rotor and formed with nozzle apertures directed toward the periphery of said rotor, a steam exhaust conduit communicating with the interior of said casing adjacent the peripheral portion of said rotor, a source of liquid fuel, a fuel preheating coil in said housing, a conduit connecting said source to one end of said preheating coil, the other end of said preheating coil being open and terminating in said housing, an oxygen source connected to said housing, ignition means in said housing adjacent the open end of said fuel preheating coil, a water jacket surrounding said housing, an additional preheating coil connected to said water jacket, an injection nozzle connected to said additional preheating coil and opening adjacent said ignition means, whereby preheated water is injected into the housing and is converted into steam at high temperature and pressure by the combustion of the fuel, said steam passing through said nozzle apertures and driving said rotor, a second source of fuel connected to said injection nozzle, and an air compressor driven by said turbine rotor and connected to the open end of said preheating coil, whereby to provide air for the combustion of the fuel.

2,662,374

ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION

Eduard William Woydt, Stuttgart, Germany

Application December 15, 1949, Serial No. 133,070
Claims priority, application Germany December 20, 1948
4 Claims. (Cl. 60—53)



1. A hydraulic transmission comprising a fixed outer casing, a rotatable frame journalled within said fixed outer casing and having eccentrics thereon, means for imparting rotation to said rotatable frame, a cylindrical inner casing rotatably mounted on said eccentrics, a pump including a rotor body within said cylindrical inner casing and having valves and radially disposed pistons, said pistons being mounted in cylinder bores and at one end bearing on the inner wall of the cylindrical inner casing, means for conducting fluid to the pump rotor body and means for operating the valves of the pump rotor body, a second frame within said fixed outer casing, means adjustably securing the second frame against rotation with respect to the fixed outer casing, a second cylindrical inner casing within said second frame and having eccentrics thereon journalling the second casing for rotation with respect to the second frame, a motor including a rotor body within said second cylindrical casing and having valves and radially disposed pistons, said pistons being mounted in cylinder bores and at one end bearing on the inner wall of the second cylindrical casing, means for conducting fluid from the motor rotor body and means for operating the valves of the motor rotor body, means for receiving torque from the motor, and a hollow shaft rigidly interconnecting the pump and motor rotor bodies for conjoint rotation and for conducting fluid under pressure from the pump to the motor.

2,662,375

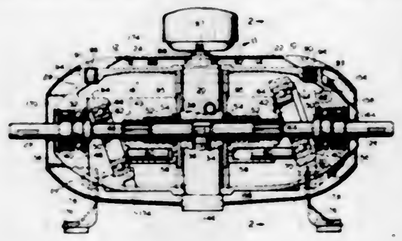
ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION

Kenneth I. Postel and Joseph P. Horvath, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan

Application October 14, 1947, Serial No. 779,732
1 Claim. (Cl. 60—53)

A self-contained hydraulic power transmission comprising a two-section casing within which is a main jump and motor, a stationary valve block forming a partition between the casing sections common to the pump and motor for controlling the admission and exhaust of fluid to and from the pump and motor, said casing sections and

valve block having bolt holes extending therethrough registering with each other, a protective shroud surrounding the casing sections and valve block, the shroud comprising a pair of similar bell-shaped sections and having a plurality of inwardly extending indentations near the shoulder of each bell and including bolt holes extend-



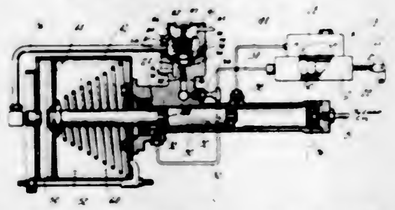
ing through the indentations registering with the sectional casing and valve block bolt holes, and bolts mounted in the casing sections, valve block and shroud bolt holes serving to connect the two casing sections in abutting relation to the valve block and also to maintain the two shroud sections with their open ends in abutting relationship with each other.

2,662,376

BOOSTER UNIT FOR HYDRAULIC PRESSURE SYSTEMS

Earl R. Price and Thomas H. Thomas, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Original application October 4, 1943, Serial No. 504,854, now Patent No. 2,470,748, dated May 17, 1949. Divided and this application April 11, 1947, Serial No. 740,736
6 Claims. (Cl. 60—54.5)



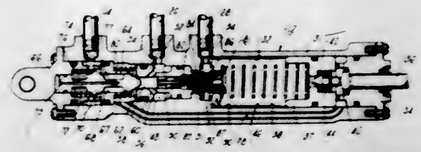
1. A system for operating a booster brake mechanism comprising a brake pedal, a master cylinder operatively connected with the brake pedal and having a recuperation port, a reservoir communicating with said cylinder through the recuperation port, a second master cylinder having a piston reciprocable therein and having a recuperation port, a conduit directly connecting the second master cylinder recuperation port to the aforesaid reservoir, a booster, a motor unit fed with pressure liquid from the pedal master cylinder to bring the booster into action, means operatively connecting the booster with the piston of the second master cylinder, and a variable volume chamber having a connection with said motor unit, said chamber being defined by the second master cylinder and the rear of said piston and caused to increase in volume as the booster moves said piston, thereby tending to reduce the liquid pressure in the motor unit, the recuperation port of the second-named master cylinder being so located as to at all times be free of communication with said chamber.

2,662,377

POWER BOOST CONTROL DEVICE

Alton B. Miller, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application November 29, 1951, Serial No. 258,777
4 Claims. (Cl. 60—54.6)



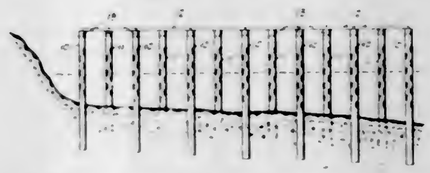
4. A fluid pressure-controlling device comprising a first fluid pressure responsive member which separates first and second variable volume chambers, a second fluid pressure responsive member having opposite end faces of different diameters, the smaller diameter face being in communication with the first chamber, means connecting a third chamber communicating with the larger diameter face of said second fluid pressure responsive member with said second chamber, valve means responsive to movement of said second fluid pressure responsive member to control the admission of fluid pressure to said third chamber, and pressure-limiting means carried by said second fluid pressure responsive member and comprising an outlet, a valve element controlling said outlet, said valve element serving to control communication between said outlet and said first chamber and opening only when the pressure in said first chamber attains a predetermined value.

2,662,378

ART OF SHORE PROTECTION

Harry A. Schmitt, Shorewood, and William H. Lange, Milwaukee, Wis.

Application August 6, 1949, Serial No. 108,918
3 Claims. (Cl. 61—4)



1. A beach building jetty comprising a longitudinal series of inner and outer piles disposed in staggered relation, at least some of said piles comprising hollow steel structures having openings extending therethrough above and below the water level, said openings forming means for dissipating the force of the waves to damp the littoral currents whereby matter suspended in the water is released, and a substantially flat deck overlying and supported by said piles.

2,662,379

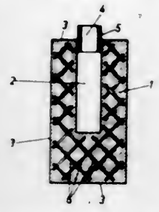
STORAGE DEVICE FOR LIQUEFIED GASES AND THE VAPORS THEREOF

Otto Reich, Vienna, Austria, assignor of one-third to Julius Vignati, Vienna, Austria, and one-third to Erich Wieden, Solingen-Ohligs, Germany

Application July 3, 1950, Serial No. 171,950
Claims priority, application Austria July 15, 1949
6 Claims. (Cl. 62—1)

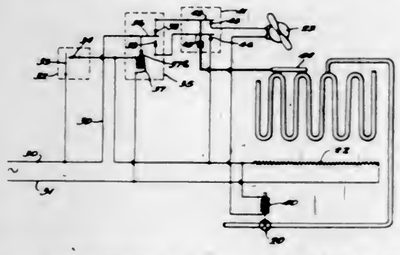
1. A device adapted for storing liquified gases and the vapors thereof comprising, in combina-

tion, a substantially rigid porous body and a coating anchored to and integral with said body



at the surfaces thereof, said so-coated body having an opening for the charging and discharging of the liquified gases to be stored therein.

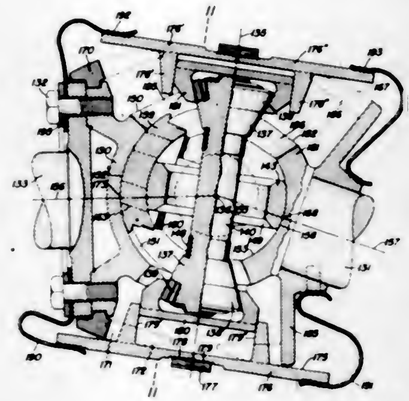
2,662,380
AUTOMATIC DEFROSTING SYSTEM FOR REFRIGERATION MACHINES
Myer Stephen Sutton, Minneapolis, Minn., assignor to Frez-O-Mat Corporation, Chicago, Ill., a corporation of Illinois
Application February 6, 1951, Serial No. 209,592
7 Claims. (Cl. 62—3)



1. In a refrigeration machine having an evaporator through which refrigerant is circulated to reduce the evaporator to cooling temperature and means for causing a stream of air to pass over the surfaces of the evaporator and into the space to be refrigerated, means intermittently operative responsive to time control for introducing heated fluid medium at high pressure into the evaporator to increase the temperature thereof and substantially simultaneously for inactivating the means for causing air flow, a thermostatically controlled element responsive to the temperature on the surfaces of the evaporator to stop circulation of the heated medium through the evaporator whereby refrigerant is allowed to continue therethrough when the temperature on the surfaces of the evaporator rise above freezing, and means responsive to the thermostatically controlled element for reactivating the means for causing air circulation over the evaporator when the temperature thereof falls to below freezing subsequent to circulation of refrigerant therethrough.

2,662,381
UNIVERSAL JOINT
Ernest Wildhaber, Brighton, N. Y.
Application December 14, 1949, Serial No. 132,953
19 Claims. (Cl. 64—21)

1. A universal joint comprising two end elements which are rotatable relative to one another about intersecting axes and which have grooved portions of different diameters, respectively, the grooved portion of one element lying within the grooved portion of the other element, two coaxial rollers engaging, respectively, in the grooves of said two elements, one of said rollers being mounted directly on the other coaxially of the other to rotate relative to the other and to transmit the driving load between said two end elements directly from one roller to the other,



and means connected to said two end elements for maintaining the axis of said rollers in a plane which passes through the point of intersection of the axes of the two end elements and which bisects the angle between said axes.

2,662,382
SERVING TRAY AND METHOD OF MAKING SAME
Joseph A. Potchen, Grand Rapids, Mich., assignor, by mesne assignments, to Hasko Trays, Inc., Indianapolis, Ind., a corporation of Indiana
Application June 19, 1950, Serial No. 169,043
5 Claims. (Cl. 65—53)

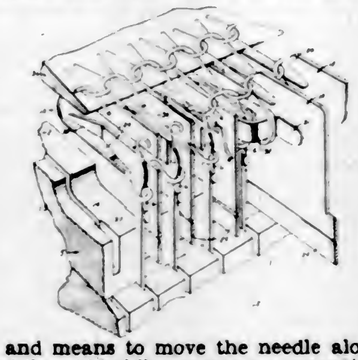


5. As an article of manufacture, a platform, the combination comprising: a body member; a split rim having walls defining an internal channel for receiving said body member; said rim mounted on said body member closely about and engaging the periphery thereof with the ends of said rim seated closely adjacent each other; a handle including a clamp, said clamp seated over the ends of said rim for engaging said rim; said clamp engaging said body member inwardly of said rim toward the center of said platform.

2,662,383
KNITTING MECHANISM AND METHOD
Vincent Lombardi, Miami, Fla., assignor to Lombardi Knitting Machine Co., Inc., Miami, Fla., a corporation of New York
Application December 9, 1947, Serial No. 790,591
30 Claims. (Cl. 66—50)

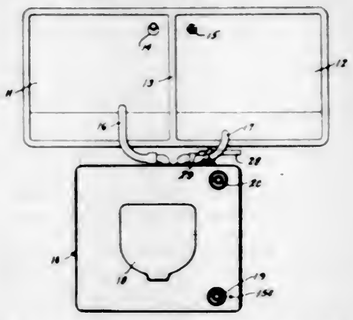
1. In a knitting machine in combination, a series of independent needles, means to hold in one position with respect to the path of a needle one portion of the legs of a loop held by a needle and

to hold another portion of the legs of a loop in another position with respect to the said needle



path, and means to move the needle along said path while said holding means are operative.

2,662,384
WASHING MACHINE CONTROL MECHANISM
Harold E. Morrison, Peter Eduard Geldhof, and Luther Ringer, St. Joseph, Mich., assignors to Whirlpool Corporation, a corporation of New York
Application June 28, 1947, Serial No. 757,852
3 Claims. (Cl. 68—12)



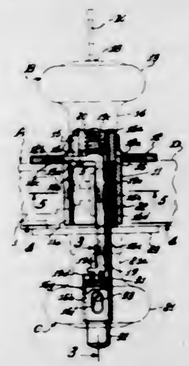
1. In a control circuit particularly adapted to control operation of an automatic washing machine of the type having a tub, a clothes container therein, an agitator in the clothes container, a motor for driving said agitator and for spinning the clothes container, a normally closed valve controlling the supply of water to the container, a power circuit, a solenoid connected in said circuit and having an armature operatively connected with said valve to open said valve upon energization thereof, a sequence timer connected in said circuit and having timer-operated switches associated therewith connecting said motor and said solenoid in said power circuit, a float switch connected having lower contacts in the circuit to said solenoid and normally closed upon a low liquid level within said tube and maintaining said solenoid energized, to hold said valve open until the water in the tub reaches a predetermined level, and having upper contacts connecting said motor in said power circuit and a manually operable switch having contacts connected in the circuit from said float switch to said solenoid and also having contacts connected in parallel with said upper contacts of said float switch selectively operable to break the circuit to said solenoid and effect closing of said valve and close the circuit to said motor, without affecting the cyclic operation of the machine.

2,662,385
LAMINATED LOCK BODY WITH NAME PLATE
Stephen V. Zavoico, West Hartford, Conn., assignor to The Eagle Lock Company, Terryville, Conn., a corporation of Connecticut
Application October 22, 1952, Serial No. 316,152
6 Claims. (Cl. 70—52)



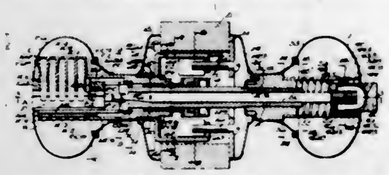
4. A laminated lock comprising a body formed from a series of juxtapositioned laminations secured together and each shaped to provide opposed grooves in said body having oppositely deflecting portions, and a name plate having flange portions fitting within said grooves and secured to said body by the deflecting portions of the grooves.

2,662,386
DOOR LOCK
Carl A. Hillgren, Huntington Park, Calif.
Application November 21, 1949, Serial No. 128,595
5 Claims. (Cl. 70—146)



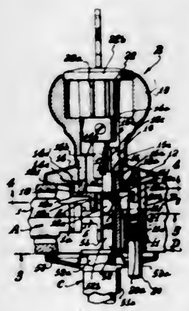
2. A privacy lock structure comprising inner and outer knobs, a spindle housing, spindle sections on the knobs lying within the housing and a latch housing attached to the spindle housing having a latch actuator in spring-pressed engagement with said spindle sections and adapted to be shifted thereby to unlatched position, a spindle element extending between the knobs having a laterally directed retainer thereon, a detent movably secured between the knobs and spring pressed toward the inner knob and having a push button extending beyond the inner knob, a laterally projecting rounded cam face on the detent lying adjacent the retainer, said outer knob and said spindle housing having recesses normally coinciding, said detent in depressed position having a portion in locked relation in said recesses and being spring pressed laterally by said latch actuator to a position wherein the cam face is engaged behind said retainer, said detent having a position released from engagement with said recesses when the latch actuator is shifted by one of said spindle sections to unlatched position, a cylinder lock in the outer knob and a non-rotatable connection between the cylinder lock and the spindle element whereby the retainer is adapted to be rotated out of engagement with the cam.

2,662,387
DOOR LOCK
Gotthard Hagstrom, Greenwich, Conn., assignor to The Safe Padlock and Hardware Company, Lancaster, Pa., a corporation of Pennsylvania
Application December 1, 1950, Serial No. 198,557
29 Claims. (Cl. 70—146)



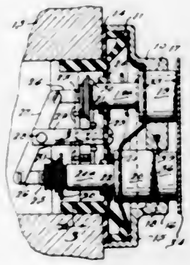
17. In a door lock unit, in combination; a latch bolt retracting, rotary spindle; an inner knob mounted on said spindle; a fixed lock plate; an outer knob rotatably mounted in said lock plate; said spindle being extended axially into said outer knob; a clutch member movably mounted on said spindle within said outer knob and being adapted in one position thereof to engage said knob to connect the knob with said spindle and in another position thereof to disengage said knob to disconnect the knob from the spindle for rotation of the spindle independently of the knob; locking means connected with said spindle mounted clutch member for actuation thereby to lock said outer knob to said lock plate when said clutch member is in position disengaged from said knob and to unlock said knob from said lock plate when said clutch member is engaged with the knob; a manually operable member mounted in said inner knob; mechanism connecting said manually operable member with said spindle mounted clutch member for selective movement of the latter to either of its aforesaid positions; a cylinder lock unit mounted in said outer knob and including a key rotatable cylinder plug therein; spaced tooth members mounted on the inner end of said spindle within said outer knob; an actuator member connected with and rotatable by said cylinder plug and being extended inwardly therefrom into said outer knob; and spaced tooth members on said actuator member adapted upon rotation of said latter member by said cylinder plug to engage said spindle tooth members for rotation of said spindle.

2,662,388
DOOR LOCK
Carl A. Hillgren, Huntington Park, Calif.
Application May 9, 1949, Serial No. 92,107
13 Claims. (Cl. 70—147)



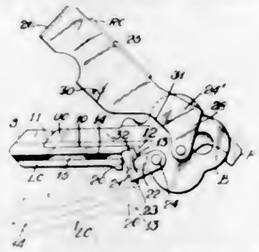
2. In a lock structure, a cage adapted to be fitted in a door, a knob rotatably mounted on the cage and adapted to extend from one side of the door, a spindle extending from the knob into the cage and forming with the knob a rotatable knob assembly, a locking member slidably mounted within the cage in a direction transverse to the axis of the spindle, said spindle extending through said locking member, said spindle being provided with a portion of semi-circular cross-section and provided in the plane face of the semi-circular cross-section with concentric semi-circular recesses positioned end to end, one at the extended end of the spindle and the other adjacent the knob and of less diameter than the former recess, a key-operated spindle located coaxially within the knob and coaxially with and rotatable relative to the first spindle, the key-operated spindle having a latch-operating portion located within the larger recess of the first spindle and having a shank, extending through the smaller recess, connecting the latch-operating portion with the knob, the latch-operating portion of the key-operated spindle being also of semi-circular cross-section with the plane face thereof located normally substantially within the plane of the corresponding face of the first spindle, a latch housing extending from the cage, bolt means mounted in the latch housing and having at its inner end a portion extending between the locking member and the plane faces of the spindles, said locking member having lug means normally in disengaged relationship with the knob assembly, and longitudinally reciprocating means in the cage extending to the opposite side of the door having one position holding the lug means in said disengaged relationship with said knob assembly and having another position wherein the locking member is released for engagement with said knob assembly.

2,662,389
SAFETY LOCK FOR SWITCHES
Edward R. McKitrick, Detroit, Mich., assignor to Briggs Manufacturing Co., Detroit, Mich., a corporation of Michigan
Application August 7, 1951, Serial No. 240,668
10 Claims. (Cl. 70—174)



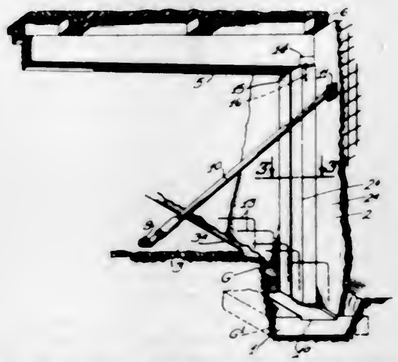
4. A safety device for an electrical switch comprising a support, start and stop push buttons interconnected for shiftable movement in unison and in opposite directions, the stop button being shiftable inwardly within a recess in the support whereby the start button will be shifted outwardly into operative position, said device comprising a cover plate adapted to fit at a cover position over the face of the support, a blocking means fastened to said cover plate and insertable into said recess into blocking position with respect to said stop push button when said plate is at the cover position, and locking means for holding said cover plate sufficiently immobile to block actuation of said buttons.

2,662,390
KEY SLOT PLUG
David N. Michnoff, Brooklyn, N. Y., and Charles M. Palmer, Washington, D. C.
Application April 25, 1949, Serial No. 89,432
16 Claims. (Cl. 70—428)



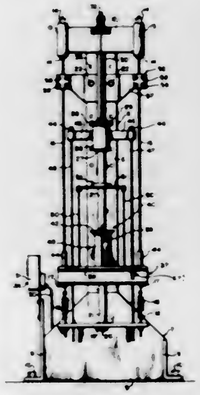
7. In a device for insertion in a key slot in which tumbler means are movably arranged; a key blank having a split shank adapted to actuate said tumbler means and comprising complementary upper and lower separable components, said lower component having at its rear end a slot and a lug, a keeper having sides straddling said lower component and including a web removably receivable in said slot for holding said lower component against said upper components and including an opening between said sides for removably receiving said lug, means pivotally sustaining said sides to said key blank, a casing having means for displacing said keeper for shifting said sides to straddle said upper component, and means pivotally holding said casing to said key blank.

2,662,391
METHOD OF CONSTRUCTING BUILDINGS
William P. Neil, Pasadena, Calif.
Application October 15, 1949, Serial No. 121,622
2 Claims. (Cl. 72—1)



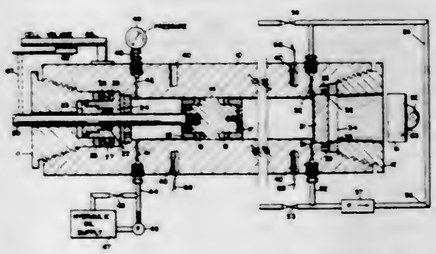
1. A method of constructing a concrete wall and floor supported on the ground comprising laying a footing in a trench with the upper surface of the footing below the surface of the ground, casting a concrete floor on the surface of the ground adjacent to and spaced from the footing, casting concrete wall panels on the cast floor and allowing the panels to set, raising the wall panels and setting them in an upstanding position on the footing, applying grout on the footing and against the wall panels for joining the wall panels and the footing, bracing the wall panels in position, filling the space between the panels and the sides of the footing trench and casting a concrete floor section on the trench fill from the concrete floor to the panels.

2,662,392
SINE WAVE SHOCK TESTER
Donal E. Sullivan, Washington, D. C.
Application February 3, 1950, Serial No. 142,245
6 Claims. (Cl. 73—12)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A shock producing device of the character disclosed for imparting sine wave motion to an object under test comprising, in combination, a frame, a multiplicity of yieldable tension members depending vertically from a portion of said frame, stop means fixedly secured to the depending ends of said tension members, a carriage normally to come to rest on said stop means and movable on said tension members and adapted to support thereon an object to be tested, an electro-magnet arranged when energized to support said carriage in an elevated position on said tension members, means for energizing and subsequently reversing the polarity of said electromagnet to respectively support and subsequently release said carriage for free accelerated motion thereof by gravity along said tension members into impact with said stop means whereby said tension members are yieldably extended and the reaction thereof accelerates said carriage upwardly on said tension members, thereby producing in said object a sinusoidal shock pattern, and means for latching said carriage at the peak of its rise on said tension members.

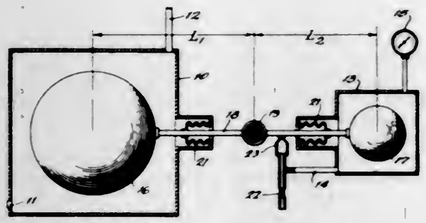
2,662,393
HIGH-PRESSURE WINDOWED CELL
Michael J. Rzasa, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application December 29, 1950, Serial No. 203,288
4 Claims. (Cl. 73—23)



1. A cell for observing phase-equilibrium conditions of fluids under variable conditions of tem-

perature and pressure comprising a thick-walled, horizontal, cylindrical cell having a uniform-diameter bore extending along the axis thereof, a thick, transparent circular window perpendicular to said axis sealing and forming one end of said bore, a piston in said bore closely engaging the walls thereof and forming with said window a cylindrical space of variable volume adapted to contain a fluid sample, means attached to said piston for indicating outside of said cell the piston position within said bore, means for applying hydraulic pressure to move said piston and vary the cell volume between said piston and said window, said piston being movable substantially into contact with said window, whereby the minimum cell volume is substantially zero, means for determining the pressure of a fluid sample within said cell volume, means for maintaining said cell and said fluid sample at a given temperature, and at least one fluid conduit extending through the wall of said cell whereby a fluid sample may be introduced or removed from said cell volume.

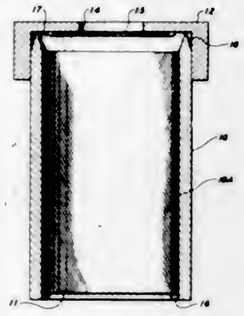
2,662,394
APPARATUS FOR MEASURING THE DENSITY OF GASES
Jerome B. McMahon, Wilmette, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois
Application January 21, 1948, Serial No. 3,485
5 Claims. (Cl. 73—30)



1. Apparatus for measuring the density of a gas which comprises a first chamber to receive the gas to be measured, a second chamber to receive a standard gas, displacers of constant volume in the chambers in buoyant relationship with the gas therein, balance means connecting the displacers, and control means responsive to movement of the balance means to control the pressure of the standard gas in the second chamber thereby to vary the density of the gas in the second chamber an indicating means responsive to the pressure of the standard gas to indicate the density of the gas to be measured.

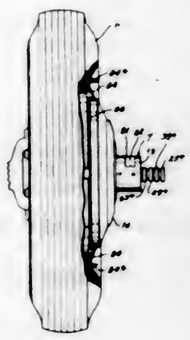
2,662,395
PERMEABILITY TEST CONTAINER
Marion D. Brazier, San Gabriel, Calif., assignor to Petroleum Engineering Associates, Inc., Pasadena, Calif., a corporation of California
Application October 6, 1951, Serial No. 250,129
3 Claims. (Cl. 73—38)

1. In a device for taking a core sample of a relatively unconsolidated porous material containing fine particles and for determining the permeability of the sample thus taken, the combination which comprises a rigid tube of uniform interior cross section, one end of the tube being open and adapted for driving into the material to obtain the sample and the interior surface of the tube being rough so as to obtain a relatively tight seal between the contained sample and the



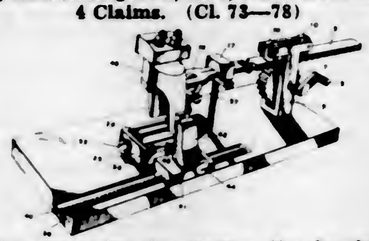
tube, and a screen disposed across and affixed to the tube remote from its open end.

2,662,396
WHEEL BALANCING DEVICE
Lee Hunter, Jr., University City, Mo.
Application August 11, 1949, Serial No. 109,641
6 Claims. (Cl. 73—66)



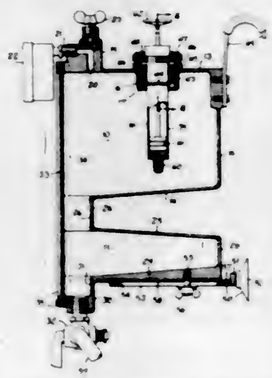
1. A device for correcting the dynamic unbalance of a rotating wheel comprising a frame structure carried by the rotating wheel, a housing on said frame movable relative thereto, two balancing weights movably carried on said housing, separate balancing weight adjusting control means coaxial with the axis of wheel rotation located adjacent said housing, a first gear train in said housing continuously connecting one of said control means with said balancing weights for adjusting said weights relative to each other comprising spur, worm and bevel gearing for reversely adjusting the weights, a second gear train in said housing continuously connecting another of said control means with said frame for adjusting said housing and weights as a unit relative to said frame comprising spur and worm gearing for moving the weights as a unit, said control means being fixed against axial displacement while rotating during wheel balancing and being controllable solely by a change in speed relative to wheel speed, a pin in one of the spur gears in said first gear train; and an arm secured to another gear in said train and being adapted to engage said pin for arresting the motion in said train.

2,662,397
HARDNESS TESTER
David C. Goldberg and Robert E. Schafer, Lancaster, Pa., assignors to Hamilton Watch Company, Lancaster, Pa.
Application August 3, 1951, Serial No. 240,114
4 Claims. (Cl. 73—78)



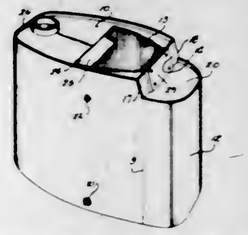
1. An apparatus for testing the hardness of minute instrument and timepiece parts, comprising an end quenched cylinder having a surface of graduated hardness, a chuck for holding the part to be tested, means for supporting the chuck held part above and in contact with the cylinder, means connected to said chuck for varying the angle of contact between the part to be tested and the axis of the cylinder, means for moving said part longitudinally of the cylinder and in contact with the surface thereof, and optical means adjustable longitudinally with regard to said cylinder for observing the point at which the part scratches the surface of the cylinder.

2,662,398
FUEL-SYSTEM TESTING DEVICE
William W. Rocklen, West Haven, Conn.
Application January 9, 1951, Serial No. 205,105
6 Claims. (Cl. 73—113)



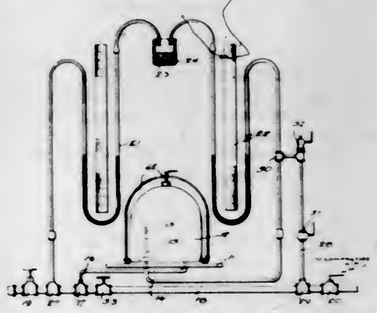
1. In a combined portable emergency fuel-supply unit and fuel-system testing device for an engine, a relatively infrangible fuel container comprising an integral self-contained unit having a top wall with a filling aperture therein, a bottom wall having an inlet and outlet passage located at the lowest point thereof and side walls having a visual-inspection panel for viewing substantially the entire interior of said container, the side walls opposite and adjacent said visual-inspection panel being necked-in intermediate said top and bottom walls to form a burette-chamber in the lower portion of said container and a fuel-reserve chamber disposed above said burette-chamber, said chambers being interconnected by a restricted passage adjacent said visual-inspection panel, said passage being formed by the necked-in portion of said side walls, a second restricted passage located in the bottom of said burette-chamber adjacent said visual-inspection panel being in communication with said inlet and outlet passage, and a hand-operated pump removably mounted in said filling aperture of said fuel container, said pump being constructed and arranged to make an air-tight seal in said filling aperture.

2,662,399
OUTBOARD MOTOR TEST TANK
Henry C. Chapman, Milwaukee, Wis., assignor to Stolper Steel Products Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application January 28, 1950, Serial No. 141,093
9 Claims. (Cl. 73—116)



1. An outboard motor test tank having a wall of elliptical form and a top opening, and a transom extending transversely of the major axis of the tank and intermediate its ends for the support of a motor with its propeller disposed within the tank.

2,662,400
METHOD AND APPARATUS FOR DETERMINING THE VOLUME OF ARTICLES
Louis I. Weiner, Philadelphia, and Benjamin Paul Berman, Upper Darby, Pa.
Application February 9, 1949, Serial No. 75,462
17 Claims. (Cl. 73—149)
(Granted under Title 35, U. S. Code (1952), sec. 266)



5. Apparatus for determining the volume of a generally hollow and porous article consisting of a support, a chamber removably mounted on the support, means to seal the lower edges of the chamber against said support, a clamp to hold the chamber sealed on the support when subjected to internal pressure, a hollow form fixed to the support within the chamber, a conduit connected to the interior of the form, a source of compressed air, a vent in said conduit, a valve to admit compressed air to the conduit or to cut off the compressed air and permit venting of the air in the conduit, a bladder, means to clamp the bladder upon the form so that it may be blown up by air conducted through said conduit and will then hold the pressure, a pressure meas-

uring device connected with said conduit, a second conduit connected with the interior of the chamber through the support and also connected with said source of compressed air, a valve to control or shut off flow of compressed air to said second conduit and hence to the chamber, a second pressure measuring device coupled with the interior of the chamber, and another valve to control discharge of air from the second conduit and the chamber.

2,662,401
SAMPLING AND HANDLING OF MINERAL SPECIMENS
Florent H. Bailly, Pasadena, Calif.
Application April 25, 1949, Serial No. 89,381
8 Claims. (Cl. 73—153)



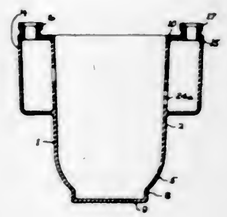
1. A method for treating a mineral sample which comprises completely sealing the sample shortly after its recovery by placing the sample in a liquid plastic bath and solidifying the bath around the sample to form an impervious plastic case, making holes through the plastic case on opposite sides of the sample, and forcing a fluid through the holes and the sample enclosed in the case.

2,662,402
FLIGHT TEST HEAD
Daniel B. Ince, Jr., Redondo Beach, and Donald V. Shafer, Inglewood, Calif., assignors to North American Aviation, Inc.
Application November 22, 1948, Serial No. 61,318
3 Claims. (Cl. 73—180)



1. A device for accurately measuring flight characteristics of an aircraft comprising a boom having mast and tip portions, said mast being adapted to be rigidly attached to said aircraft; universal joint means connecting said portions so that they are normally in substantial axial alignment; means for maintaining said tip portion parallel to the airstream regardless of the attitude of the aircraft in flight, said tip being provided with dynamic and static pressure orifices adapted to be connected to air speed indicating means; means carried by one of said portions and operatively connected to the other of said portions for sensing relative horizontal movement therebetween; and means carried by said other portion and connected to the said one portion for sensing relative vertical movement therebetween; whereby true air speed, angle of attack and angle of yaw will be obtained simultaneously.

2,662,403
DRY GAS METER
Stephen Simpson, Poundsgate, Newton Abbot, Devon, England
Application May 8, 1951, Serial No. 225,120
1 Claim. (Cl. 73—274)

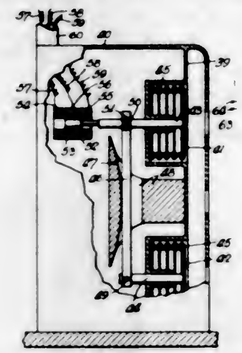


A dry gas meter comprising an integrally cast, substantially rectangular casing open at the top, presenting front, back and side walls having a uniform downward taper, and a flat base, there being an inlet in one side wall of said casing and an outlet in the other side wall of said casing, a cast metal unit within said casing presenting two diaphragm chambers separated by an integral partition member, said unit having an apertured horizontally disposed top plate portion for supporting cooperating valve seatings and a flat face portion substantially perpendicular to and beneath said top plate portion, said flat face portion having an outlet therein positioned beneath said top plate, means for securing said unit inside and adjacent a side wall of said casing with the outlet in the flat face portion of said unit in registry with the outlet in the side wall of said casing, a removable cover for closing the top opening of said casing, and means for securing said cover to the casing.

2,662,404
SYSTEM RESPONSIVE TO LIQUID LEVELS
Carl G. Sontheimer, Riverside, Conn.
Application May 11, 1946, Serial No. 669,088
5 Claims. (Cl. 73—299)

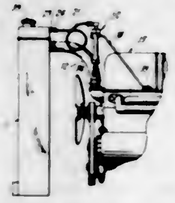
1. A system responsive to varying heights of a liquid above a selected base level, comprising a movably mounted element communicating with said liquid at said base level and adapted to transmit a variable force proportional to the liquid pressure acting upon it, another similarly mounted element communicating with said liquid at a predetermined lower level and adapted to transmit a variable force proportional to the greater liquid pressure acting upon it, and a mechanism under the control of said elements and responsive to the ratio of said forces, said

mechanism comprising a floating lever whose ends are subjected to said forces, respectively,



and a curved surface against which the intermediate portion of said lever bears.

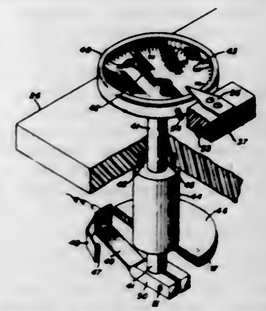
2,662,405
FLUID LEVEL INDICATOR
Leiden H. Tapscott, Dallas, Tex.
Application December 21, 1950, Serial No. 202,095
1 Claim. (Cl. 73—328)



In a liquid level gauge for a motor having a radiator and a hose connection from said motor to the upper portion of said radiator, comprising a sight tube, a bracket secured to said motor for holding said sight tube vertically and on substantially the same level as the top of said radiator at the rear thereof, a flexible tube connecting the upper end of said sight tube to said radiator at a point adjacent the top of said radiator to maintain equal pressures in said radiator and sight tube, and rigid tubular means connecting said lower end of said sight tube to said hose connection at a level below said upper portion of said radiator whereby the fluid in said radiator and said hose connection may flow into said tube.

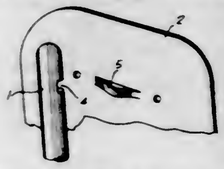
2,662,406
REFERENCE-JUNCTION COMPENSATOR FOR THERMOCOUPLE PYROMETERS
Adolph J. Wohlgemuth, Westfield, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application September 10, 1952, Serial No. 308,886
5 Claims. (Cl. 73—361)

1. A reference-junction compensating arrangement for a thermocouple pyrometer having a thermocouple voltage-measuring circuit, said arrangement comprising a bimetallic thermometer including a temperature-sensitive coil disposed within a casing and a pointer rotatable relative to the casing, a fixed reference mark disposed external of the thermometer casing, thermometer-supporting means affording manual rotation of the thermometer casing to aline the said pointer with the said reference mark, and a rheostat connected into the measuring circuit of the pyrometer, said rheostat having a



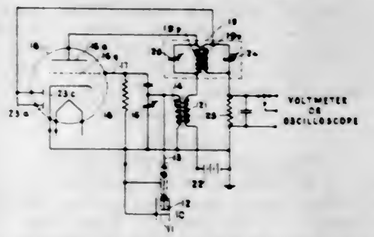
movable contact arm mechanically coupled to the thermometer casing and said rheostat being adapted to have its effect on the measuring circuit varied by movement of said contact arm.

2,662,407
THERMOMETER AND METHOD OF MANUFACTURE THEREOF
George Dean Hunt, Springfield, Ohio, assignor to The Ohio Thermometer Company, Springfield, Ohio, a corporation of Ohio
Application April 6, 1946, Serial No. 660,258
12 Claims. (Cl. 73—376)



1. A thermometer, wherein an indicator tube is attached to a graduated scale plate in predetermined relation therewith, a pair of relatively spaced shoulders on the side of the indicator tube contiguous to the scale plate and defined by a transverse cut in the tube below the general surface thereof and an integral tongue projected out of the plane of the scale plate into interlocking relation between the shoulders on the indicator tube.

2,662,408
ELECTRONIC PRESSURE INDICATOR
Lynn E. Ellison, Crystal Lake, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application October 18, 1947, Serial No. 780,726
4 Claims. (Cl. 73—398)



1. A pressure indicating apparatus which consists essentially of an oscillator network, a detecting and indicating network, a tuned trans-

former having a primary coil and a secondary coil inductively coupling said networks, and a detecting device sensitive to variations in pressure consisting of a pressure actuated frequency modulator, said oscillator network consisting essentially of a thermionic vacuum tube having at least a cathode grid and plate elements, a plate circuit, a grid control circuit, and an oscillator transformer having a primary coil and a secondary coil, the plate circuit electrically connecting said plate and said cathode elements and having serially disposed therein the primary coil of said tuned transformer, the primary coil of said oscillator transformer, and a source of power supply, respectively, said plate circuit being inductively coupled to said grid control circuit through the secondary coil of said oscillator transformer, said grid control circuit consisting essentially of a variable capacitance, the secondary coil of said oscillator transformer, and said frequency modulator interconnected in parallel, said grid control circuit being directly electrically connected between said grid and said cathode, said oscillator network being tuned to a frequency slightly in variance from the resonant frequency of said tuned transformer, means connected to the secondary coil output of said tuned transformer to rectify the voltage output therefrom, and means included in said detecting and indicating network for translating and making manifest the electrical characteristics of said detecting and indicating network into quantitative indications of pressure variations actuating said detecting device.

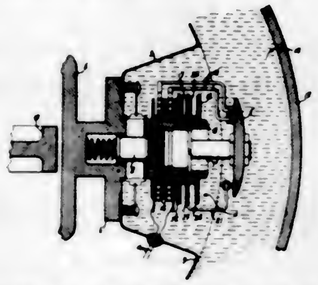
2,662,409
MANOMETER
James G. Dwyer, Deerfield, Ill., assignor to F. W. Dwyer Mfg. Co., a corporation of Illinois
Application July 6, 1951, Serial No. 235,483
4 Claims. (Cl. 73—401)



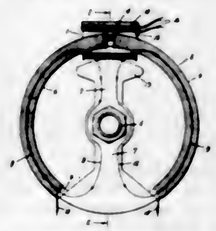
1. A flexible, portable manometer comprising parallel tubular arms of transparent flexible material connected intermediate their ends by a web also of flexible material, and a cross tube connecting the bottom of the arms.

2,662,410
TORQUE COMPENSATOR
Robert G. Ballard, Saugus, and John E. Lundberg, Lynn, Mass., assignors to General Electric Company, a corporation of New York
Application December 22, 1949, Serial No. 134,548
10 Claims. (Cl. 74—5.4)

1. In an arrangement including two relatively rotatable parts coupled together by a resilient spiral structure which produces torque variable with relative rotation of said parts, a torque compensator comprising a first magnetized member affixed to one of said parts, a second magnetized member affixed to the other of said parts, said first and second members being positioned and magnetized such that the torque therebetween due to the interaction of their magnetic fields is substantially proportional to the sine of the angular displacement therebetween and in an angular direction opposite to that of the spiral structure torque, and a third magnetized member affixed to said other part, said first and third members being positioned and magnetized such that the torque therebetween due to the interaction of their magnetic fields is substantially equal to the spiral structure torque less the torque between said first and second members and in an angular direction opposite to that of the spiral structure torque.

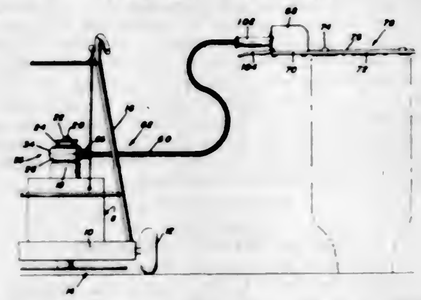


2,662,411
ELECTRICAL PICK-OFF FOR GYROSCOPES
John E. Lundberg, Swampscott, and George A. Wallace, Malden, Mass., assignors to General Electric Company, a corporation of New York
Application May 16, 1950, Serial No. 162,257
7 Claims. (Cl. 74—5.47)



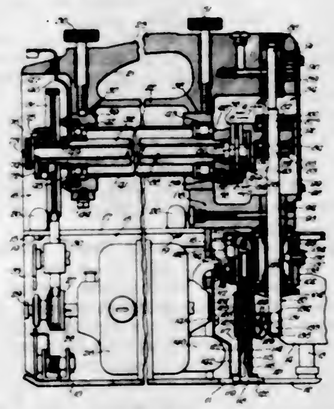
1. A control initiator device for producing output signals characteristic of the deviation of relatively movable members from a predetermined orientation, comprising a core of magnetic material supported by one of said members, a pair of windings, each of said windings being positioned on a different portion of said core, means supplying said windings with alternating current excitation to produce flux flows in opposite directions in said core, means completing a low reluctance flux circuit for the flux generated in each of said core portions by each of said windings, said low reluctance means and said core portions being disposed with a short air gap therebetween, a search coil, non-magnetic means mounting said coil on the other of said members and positioning said coil such that it surrounds said core and intercepts said flux flows in said flux circuits in proportions dependent upon the relative positions of said members.

2,662,412
PORTABLE POWER UNIT
John M. Miller, Summerdale, Ala.
Application September 20, 1950, Serial No. 185,892
3 Claims. (Cl. 74—16)



1. A machine of the class described comprising a portable motor having a casing with a drive shaft projecting above said casing, a starter pulley keyed to the upper end of said shaft and spaced above said casing, a sleeve keyed on the shaft between the pulley and casing, said sleeve having a worm, a housing enclosing said sleeve and worm, said housing having bearings, a power take-off shaft in said housing and journaled for rotation in said bearings, said latter shaft having a worm gear in mesh with said worm and further having a coupling available for use through an opening provided therefor in said housing, one of the bearings having a screw-threaded neck projecting through and beyond said opening, said coupling being rotatable in said neck, a flexible shaft including a covering provided with a flanged fitting, and a jointing cup swivelly mounted on said flanged fitting and internally screw-threaded, said cup being screwed on said neck, said flexible shaft having separable connection with said coupling.

2,662,413
CUTTING MACHINE DRIVE MEANS
William P. Gallagher, Chicago, Ill., assignor to International Register Company, Chicago, Ill., a corporation of Illinois
Application September 21, 1949, Serial No. 117,037
2 Claims. (Cl. 74—50)



1. In a cutting machine of the character described, a housing having a compartment and a tubular guide member extending therefrom, a drive shaft rotatably mounted in said housing and extending into said compartment, a reciprocating plunger slidable through said guide member extending into said compartment and lengthwise removable and replaceable through said guide member, a cover plate secured over said compartment, a yoke in said compartment releasably secured on said plunger, and disposed in close proximity to said cover plate and restrained thereby against turning about the axis of said plunger, the latter being lengthwise engageable with and disengageable from said yoke when released therefrom, and driving connections between said shaft and said plunger effective for reciprocating the latter.

2,662,414
HARVESTING MACHINE
Ralph S. Hertzler, Elverson, Pa.
Application December 28, 1946, Serial No. 718,995
10 Claims. (Cl. 74—217)



1. A speed changer, comprising a chassis, a first standard, a second standard, means for mounting said first standard in fixed position on said chassis, means for mounting said second standard in pivoted relation to said first standard, a third standard supported on said chassis in longitudinal spaced alignment with said first standard, a driven shaft journaled between said first and third standards, a universal coupling connected with one end of said driven shaft for imparting rotation thereto, means for adjusting the position of said second standard with respect to said first standard about the pivot thereof, a countershaft journaled in said second standard, and operating to transmit a rotative driving force therefrom, groups of different sized coacting pulley members carried by both said driven shaft and said countershaft, a drive belt engageable and disengageable over said coacting pulley members as said second standard is adjusted toward said first standard for selectively changing the position of said belt on said pulleys and the corresponding ratio of speed between said driven shaft and said countershaft, said belt operating in planes substantially normal to the axes of said shafts.

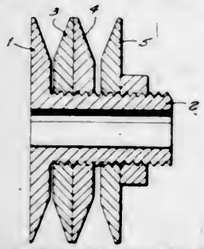
2,662,415
COG DRIVE
Richard N. Shields, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 30, 1948, Serial No. 24,277
7 Claims. (Cl. 74—229)



1. A power transmission mechanism of the belt and sheave type comprising a peripherally

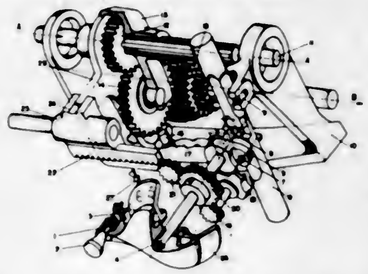
V-grooved sheave having formed in each of the opposed faces of its groove a set of spaced cogs coextensive therewith, and a flexible V-belt embraced in running engagement by said groove, the sides of the V-belt affording the working surfaces of contact with said groove, said sides being provided each with a set of transversely disposed cogs complemental to said groove cogs and meshing therewith for the prevention of relative linear movement, one of said sets of cogs embodying a straight line tooth profile and the other embodying a curved tooth profile, said curved tooth profile conforming to a generated curve contour for affording so-called rolling action in entering and leaving mesh with the straight line tooth profile.

2,662,416
V BELT PULLEY
Vilhelm Simonsen and Peter Nielsen, Randers, Denmark
Application April 3, 1951, Serial No. 218,928
Claims priority, application Denmark April 29, 1950
1 Claim. (Cl. 74—230.17)



A multiple adjustable V-belt pulley, comprising, in combination, a tubular hub having a portion screw-threaded on its outer face; a first disc-shaped member secured to said hub at one end thereof, said first disc-shaped member extending in transversal direction to said hub and having two side faces, said side face facing said screw-threaded hub portion including a conical side face portion extending inwardly from the rim of said first disc-shaped member; a second disc-shaped member having a central screw-threaded opening by which it is screw-threadedly mounted on said screw-threaded hub portion at a distance from and parallel to said first disc-shaped member, said second disc-shaped member having two side faces, said side face of said second disc-shaped member facing said first disc-shaped member including a conical side face portion extending inwardly from the rim of said second disc-shaped member, said conical side face portions of said first and second disc-shaped members forming a pulley groove for a V-shaped belt the width of which is adjustable by threading of said second disc-shaped member on said screw-threaded hub portion; a third disc-shaped member having a central screw-threaded opening by which it is screw-threadedly mounted on said screw-threaded hub portion and having two side faces, one side face of said third disc-shaped member abutting against the other side face of said second disc-shaped member pressing against the same and the other side face of said third disc-shaped member including a conical side face portion extending inwardly from the rim of said third disc-shaped member; a fourth disc-shaped member having a central screw-threaded opening by which it is screw-threadedly mounted on said screw-threaded hub portion at a distance from and parallel to said third disc-shaped member and having two side faces, the side face of said fourth disc-shaped member facing said third disc-shaped member including a conical side face portion extending inwardly from the rim of said fourth disc-shaped member, said conical side face portions of said third and fourth disc-shaped members forming a pulley groove for a V-shaped belt, the width of which is adjustable by threading of said fourth disc-shaped member on said screw-threaded hub portion; and nut means having a central screw-threaded opening by which it is screw-threadedly mounted on the screw-threaded hub portion and having one side face abutting against the other side face of said fourth disc-shaped member pressing against the same so as to hold it in adjusted position.

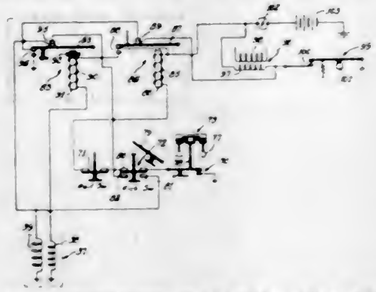
2,662,417
SPEED CHANGE GEARING
Antonio Mascherpa, Novara, Italy
Application May 1, 1951, Serial No. 223,902
Claims priority, application Italy May 17, 1950
4 Claims. (Cl. 74—352)



1. In a shifting mechanism for stepped gear drives, particularly for machine tools, the combination of a driving shaft, a driving gear slidable on said shaft and having a splined section, a member slidable and oscillatable on said shaft coupled with said splined section, a driven gear mounted on said member and meshing with said driving gear, an output shaft with a stepped gear cone on it, the range of oscillation and slide of said member bringing in contact said driven gear with any gear of said cone, a rocking member guiding the oscillatory motion of said first member, a rack slidable in the direction of said driving shaft provided with extensions meshing with said first member to guide its movement, a rotatable control spindle, means to transform the rotation of said spindle in an alternative swinging of said rocking member, and means operated by the spindle causing the intermittent operation of the rack.

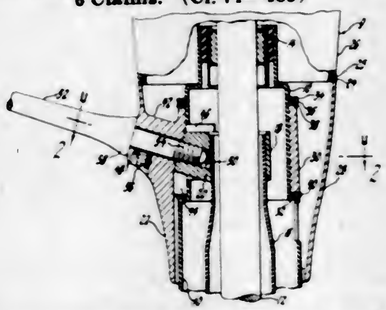
2,662,418
TRANSMISSION CONTROL
George E. Flinn, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application May 26, 1948, Serial No. 29,270
3 Claims. (Cl. 74—472)

3. In transmission mechanism for an automotive vehicle having an ignition system, the combination of a drive shaft, a driven shaft, means for providing relatively low and high speed power trains between said shafts, said last-named means including a slotted element and a movable element movable into engagement with the slotted element to complete the high speed power train and allowing the completion of the low speed power train when disengaged from the slotted element, an electric solenoid having an energizing coil and a holding coil and having a movable armature for moving the movable element into and out of engagement with the slotted element, means for interrupting the vehicle ignition system to permit disengagement of the movable element from the slotted element to complete the low speed power train and including an electric switch, a delay relay having an energizing coil connected in series with said holding coil and controlling said switch whereby actuation of the switch is delayed for a time after deenergization of the delay relay, an accelerator for the vehicle, and means controlled by said accelerator and effective upon movement of the accelerator to a kickdown posi-



tion for deenergizing said delay relay and connecting the energizing coil of said solenoid and the energizing coil of said relay in series with said holding coil for increasing the delay of the relay and actuation of the switch until the movable element has completed a movement out of engagement with the slotted element to complete the low speed power train and due to a resultant electromotive force in said delay relay coil generated by said solenoid coil upon movement of the armature through said solenoid coil during a disengaging movement of the movable element out of engagement with the slotted element.

2,662,419
TRANSMISSION CONTROL
Clovis W. Lincoln, Saginaw, and Errol A. Schroeder, Midland, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 5, 1952, Serial No. 318,824
6 Claims. (Cl. 74—485)



1. A transmission control device comprising a steering column having an annular shoulder formed adjacent the upper end thereof, a steering shaft within said steering column, a transmission control sleeve disposed about said steering shaft and adapted to rotate about said shaft, a collar secured upon the upper end of said sleeve and having an enlarged boss at one side thereof, a shroud disposed about the upper end of said steering column and having an upper edge adapted to merge with the lower edge of a steering hub adapted to be secured to said steering shaft, said shroud being formed to provide annular outer and inner wall members having a bridge joining said walled members to one another at one side of said shroud and with the inner annular wall member of said shroud disposed about and rotatably engaging said steering column above said annular shoulder, means preventing said inner annular wall member from moving axially upon the upper end of said steering column and retaining said inner annular wall member in rotatable engagement with said shoulder, said boss formed on said collar and the adjoining bridge of said shroud being formed to provide aligned openings, a transmission actuating lever projecting into said aligned openings, and means associated with said actuating lever for securing said boss and said bridge of said shroud rigidly together.

2,662,420
ADJUSTABLE TIE ROD
Oliver S. French, Detroit, and Donald P. Marquis, Ferndale, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application November 22, 1949, Serial No. 128,816
15 Claims. (Cl. 74—586)

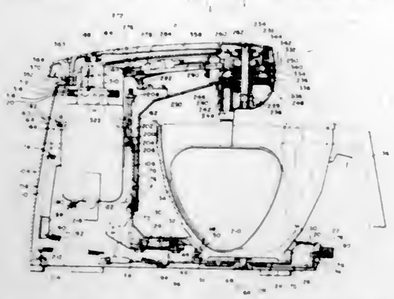


1. An adjustable tie rod apparatus for a vehicular steering assembly comprising a pair of socket members, shank means formed on the socket members, the shank means being substantially offset beyond an end of a diameter of the socket members, a bar-like stem attached to one of the shank means, the other of the shank means defining a bolt hole aperture, a second bar-like stem, both of said stems defining a plurality of equally spaced apertures, said stems abutting one another in back-to-back relationship with the spaced apertures in register with one another, locking means inserted through one or more of the registering apertures to lock the stems in selected adjusted positions to effect variations in the spacing between socket member centers, a counterbored aperture defined near the end of the second bar-like stem, the counterbored portion of the aperture being eccentrically offset with respect to the through hole portion of the aperture, and an adjustment bolt located in the bolt hole aperture in the shank and in the counterbored aperture, the adjustment bolt having an eccentric head portion cooperable with the counterbored aperture in the bar-like stem whereupon rotational adjustment of the adjustment bolt will effect incremental changes in the axial length of the tie rod apparatus.

2,662,421
FOOD MIXER CASING
Walter Van Guilder, River Forest, Ill., assignor to General Mills, Inc., a corporation of Delaware
Original application January 3, 1950, Serial No. 136,572, now Patent No. 2,616,673, dated November 4, 1952. Divided and this application March 1, 1952, Serial No. 274,481
8 Claims. (Cl. 74—606)

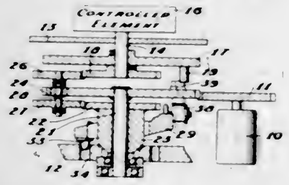
1. A food mixer comprising an open sided casing having a removable cover, the casing having

an attachment boss with a threaded recess, and the cover including a thick section overlying the attachment boss and having a bolt hole aligned with the boss recess, and a bolt passing through the hole and into the threaded recess and there-



by retaining the cover in position, the outer portion of the hole being countersunk to locate the bolt below the cover surface, and the countersunk portion including retaining means for attachment of an accessory to the casing.

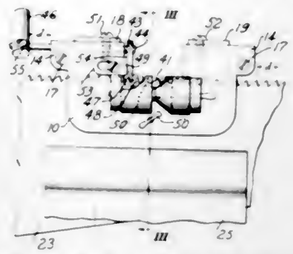
2,662,422
SPEED REDUCER
Harold S. McGowan, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application March 24, 1952, Serial No. 278,225
5 Claims. (Cl. 74—810)



1. A speed reducer comprising, a driving means, a pair of base plates, a controlled shaft mounted in a first base plate, a first gear rigidly connected to said controlled shaft, a second shaft rotatably supported in the second base plate, a collar rotatably mounted concentric about said second shaft, a locking yoke pivotally supported on said collar, a downwardly extending pin attached to one end of said yoke and receivable within an opening formed in said second base plate, a second gear attached to said collar, a third gear attached to said second shaft, a pair of gears rigidly mounted to a third shaft which is rotatably supported adjacent the periphery of said third gear, one of said pair of gears engageable with the second gear and the other engageable with the first gear, a disc rigidly mounted to the first shaft, a downwardly extending projection mounted to the disc, a dog mounted to said third gear and engageable with the downwardly extending projection, and means for controlling the position of said yoke.

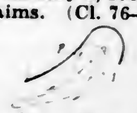
2,662,423
SAW SHARPENING FILE-GUIDE
Eli M. Greenlee, Newport, Ky.
Application November 16, 1951, Serial No. 256,657
2 Claims. (Cl. 76—36)

1. A saw sharpening file guide which comprises a pair of U-shaped frame members, said frame members being in registry, the bases of said frame members being spaced to form a saw blade receiving slot therebetween, guide support members extending between respective pairs of arms of the frame members, said guide support members being adapted to rest on the teeth of the saw blade to support the guide with other teeth exposed above the bases of the frame members, and a roller journaled on the base of each frame member, each of said rollers having a file sup-



porting conical face, said faces forming a guideway for supporting a file during the filing of one of the exposed saw teeth, the rollers being slidable axially along their journals between a first position in which the rollers are adapted to support a file during filing of a saw tooth beveled in one direction and a second position in which the rollers are adapted to support a file during filing of a saw tooth beveled in the opposite direction.

2,662,424
MACHINE FOR THE SHAPING OF METAL PIECES, MORE PARTICULARLY OF SAW TEETH
Gilles Smal, Herstal, Belgium
Application January 30, 1951, Serial No. 208,458
Claims priority, application Belgium
February 3, 1950
5 Claims. (Cl. 76—37)

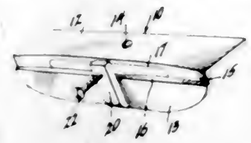


1. In a machine for cutting the teeth of a circular saw segment, in combination, clamping means operable for maintaining said segment releasably in fixed position, a cutter disposed adjacent said position and being revoluble about its axis and being at the same time, though independently, movable in a closed curved path, about a center, for tooth cutting in said segment, means for supporting said cutter, driving means operable to rotate said cutter and in driving connection with said supporting means, a rotatable shaft spaced from said cutter, two cams mounted on said shaft and rotatable therewith, each cam having a profile different from that of the other and being angularly offset against the other, and an extension mounted on said supporting means and including two rigidly interconnected cam followers, each follower engaging a cam displacing said cutter in a compound movement describing said closed curve about said center.

2,662,425
SAW FILING DEVICE
Tom R. Roberts, Homestead, Fla.
Application July 12, 1951, Serial No. 236,374
10 Claims. (Cl. 76—47)

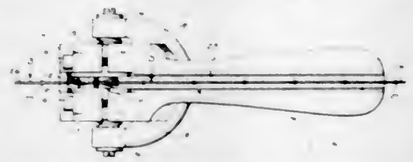
1. In a saw evening device, a pair of elongated complementary members having spaced parallel walls between which the toothed edge of a saw

is adapted to be arranged, one of said walls being provided with an elongated opening therethrough opposite which the toothed edge of a saw is adapted to be disposed when positioned



between said walls, and means for clamping a file against the outer surface of said last-named wall in such manner that the file is flexed to extend through said opening into contact with the sides of the teeth of the saw.

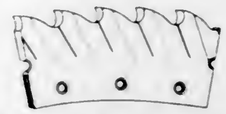
2,662,426
SAW TOOTH SHAPER WITH WEAR FACES
Ernest R. Ferrari, Vancouver, Wash.
Application November 16, 1951, Serial No. 256,711
5 Claims. (Cl. 76—54)



1. In a saw tooth shaper, an elongated frame member carrying means for supporting the shaper upon the teeth of a saw blade in a fixed position relative to the longitudinal axis of the frame member, a pair of compression dies operatively carried by said frame member for movement laterally with respect to said longitudinal axis and endwise with respect to one another, each of the compression dies having a mild steel body bounded on two sides by a plane end face and a plane inner side face, said plane faces intersecting at a die face work area and together bounding an acute angle which forms one corner of the die body, and an elongated insert piece of tool steel welded to and fixed within a pocket of complementary shape recessed in the mild steel body, two of the faces of each insert lying flush with the respective plane faces of the corresponding die and the remainder of each insert being surrounded by the mild steel body member, each of said die face work areas being beveled in two intersecting planes across both the body and the insert portions thereof, that exposed face of each insert which lies flush with a plane side face extending in a longitudinal direction back along the body member a distance greater than twice the combined widths of said bevels.

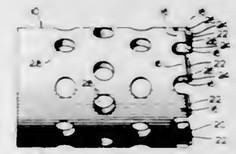
2,662,427
PROCESS FOR THE MANUFACTURE OF SAW SEGMENTS
Gilles Smal, Herstal, Belgium
Application January 30, 1951, Serial No. 208,457
Claims priority, application Belgium
February 3, 1950
6 Claims. (Cl. 76—112)

6. In a method of making from a trapezoid plate, and subsequently accurately positioning in a holder, a saw segment, the steps comprising, cutting two opposite notches spaced apart for a predetermined distance, each notch disposed in one of the inclined surfaces of said plate, and registering said notches for accurate positioning in engagement with corresponding notch engaging members, first on a series of succeeding ma-



chines for successive plate machining, and finally adjacent and in circular alignment with similar saw segments in a holder to complete a circular accurately dimensioned saw.

2,662,428
LINE STOPPER SHELL CUTTER
Frank H. Mueller, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application July 31, 1951, Serial No. 239,595
2 Claims. (Cl. 77—69)

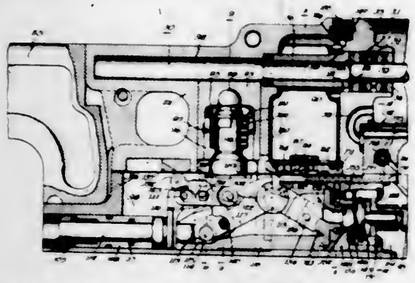


1. In a shell cutter for making an annular cut through the side wall of a pipe line so that removal of the resulting coupon leaves a circular aperture, the cutter having an annular series of axially extending teeth each provided with inner and outer curved surfaces and a somewhat rearwardly inclined end surface, the combination of means defining a step at the outer edge of the end surface of each tooth to form inner and outer cutting edges thereon with said outer cutting edge being offset rearwardly of said inner cutting edge with reference to the direction of feed of the cutter, the length of said outer cutting edge being less than the length of said inner cutting edge, whereby if the coupon fractures off along forwardly flaring surfaces when the cutter has nearly completed an annular cut through the side wall of a pipe line, the fracture surfaces will extend from the cut made by said inner cutting edges and result in a coupon of less major diameter than the diameter of the cut made by said outer cutting edges and the latter will ream off the ragged edges of the aperture in the pipe wall so that the coupon can be withdrawn easily through such aperture.

2,662,429
AUTOMATIC SQUEEZE RIVETER
Eugene H. Souter, Evanston, Ill.
Application June 12, 1948, Serial No. 32,669
12 Claims. (Cl. 78—48)

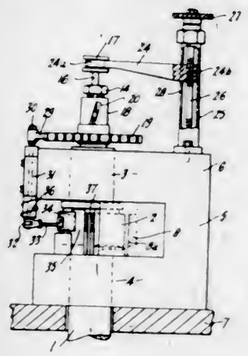
1. In a riveting tool, a housing having a compartment, hydraulic pressure intensifying means including a movable piston having a pressure applying foot within the compartment, a unitary sub-frame also within the compartment and mounted for reciprocating movement in a direction normal to the direction of movement of the piston and in a direction to and from a riveting position, said sub-frame mounting force multiplying means including a foot engaging actuator having predetermined movement, a movable work-engaging plunger having one end exteriorly

located and adapted to contact the work and having its opposite end movably mounted within the compartment, a rivet upsetting ram carried by the plunger for independent movement and also having one end thereof within the compartment, said force multiplying means being anchored at one end to the sub-frame and having its other end in pivotal association with said end of the ram, fluid means for reciprocating the sub-frame in a forward and rearward direction toward and from the work, means associated with the plunger, ram and sub-frame whereby movement of said sub-frame in a forward direction moves the plunger into contact with the work, and the stopping of the plunger by the work and the continued movement of the sub-frame reacts to



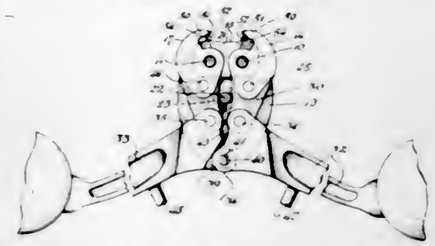
move the ram relative to the sub-frame into contact with the rivet to be operated on, thereby stopping further movement of the sub-frame and positioning the actuator of the force multiplying means in operative position to be engaged by the foot of the hydraulic pressure intensifying piston, the relative movement of the ram and sub-frame reacting on said force multiplying means to utilize part of said predetermined movement, depending on the projecting length of the rivet, and other fluid means for effecting operation of the hydraulic pressure intensifying means to cause its foot to engage the actuator of the force multiplying means to cause the remainder of said predetermined movement to effect an additional forward movement of the ram for upsetting the rivet.

2,662,430
THREAD ROLLING APPARATUS
Victor Hill Fray, Auckland, New Zealand
Application March 1, 1950, Serial No. 147,066
5 Claims. (Cl. 80—7)



5. A thread rolling apparatus comprising a frame, a continuously threaded cylindrical roller die having a plurality of thread starts, means for rotatably supporting said roller die in said frame, a cooperating stationary die having an arcuate concave face having a plurality of thread starts, means for fixedly connecting said stationary die to said frame with said arcuate face disposed adjacent to said roller die with a gap therebetween through which blanks to be threaded pass, power means for rotating said roller die, a movable feed member carried by said frame for feeding blanks to be threaded into the gap between said roller die and said stationary die, two relatively rotatable members having surfaces inclined with respect to each other, means for operatively connecting one of said members to said power means for driving said roller die, means for operatively connecting the other of said members to said feed member, means intermediate said relatively inclined surfaces and engaging the same for causing said members to rotate in unison, whereby one of said members is driven upon rotation of the other, moving means for adjustably moving said intermediate means relative to said inclined surfaces to effect angular displacement between said relatively rotatable members, normally inactive adjusting means carried by said frame, and means connecting said adjusting means to said moving means, said last-named means being so constructed and arranged that said moving means may be operative or normally inactive during the thread rolling operation.

2,662,431
BINDER-STRAP JOINT-FORMING TOOL
William C. Childress, Oak Park, Ill., assignor to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware
Application July 7, 1949, Serial No. 103,364
6 Claims. (Cl. 81—9.1)



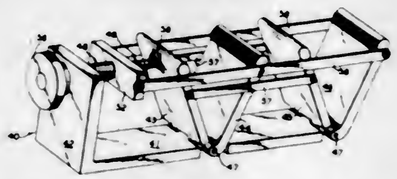
1. A sealing tool for producing joints between overlapping portions of metallic strapping which are embraced by a metallic seal comprising a pair of spaced parallel side plates, said plates being generally oval in shape with the front ends thereof being slightly concave to form supporting edges for the back of a seal during joint formation, a pair of side by side pivot pins extending between said plates near the front ends thereof and immovable with respect thereto, at least one pair of complementary crimping jaws with one jaw pivoted to each of said pins, at least one pair of complementary holding jaws with one jaw pivoted to each of said pins, additional members immovably mounted on said pivot pins and having forward edges shaped substantially like the edges of said first members and substantially parallel thereto, said additional members being positioned between pairs of crimping and holding jaws to space said pairs and to support the back of the seal adjacent said crimping jaws during joint formation, said plates being formed to provide rearwardly extending guide means on their inner faces, a pair of handles, second pin means pivoting said handles together and guided at its ends for linear movement by said guide means, a third set of pins pivoting said handles to said crimping jaws, means interconnecting said holding and crimping jaws at points spaced from said pivot pins to cause all of said jaws to move together, and a single bolt passing through said plates to secure the aforementioned tool elements together.

2,662,432
HAND-VISE
Josef Peitl, Vienna, Austria
Application March 25, 1949, Serial No. 83,491
2 Claims. (Cl. 81—18)



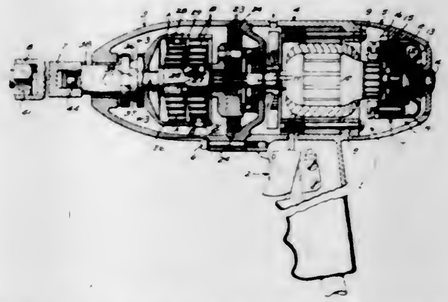
1. A hand-vise comprising a pair of steel leg members pivotally connected to each other at one end with a jaw at each of the other ends, the leg members extending from the pivot slightly outwardly relative to each other and forming a sharp angle merging toward the pivot and each leg member being curved outwardly and back toward each other terminating into the jaws with a straight portion between the curved outwardly and back portions, and means secured to the straight portions of the leg members to adjust the jaws relative to each other, said leg members being elastic in their curved portions to prevent the means from loosening the jaws due to vibrations on the work clamped between the jaws and to prevent locking of the means in the straight portions of the leg members.

2,662,433
DEVICE FOR SIMULTANEOUSLY CLAMPING AND RELEASING PLURAL WORKPIECES
Edward Braun, Norwalk, Conn.; Caroline A. Braun administratrix of said Edward Braun, deceased
Application February 8, 1950, Serial No. 143,115
3 Claims. (Cl. 81—21)



1. In a clamping device of the character described, the combination comprising: a base supporting member; an end wall rigidly attached to one end of said base; a plurality of clamping jaws mounted for movement relative to said base; links connecting alternate clamping jaws with one another; and means to move said jaws to simultaneously effect clamping action between certain of said jaws and an unclamping action between other of said jaws, said last named means including said links and a pair of screws one threaded within the other substantially as described.

2,662,434
POWER-OPERATED ROTARY IMPACT WRENCH
Harold H. Burkhardt, Greenfield, Mass., assignor to Millers Falls Company, Greenfield, Mass., a corporation of Massachusetts
Application February 28, 1952, Serial No. 273,995
6 Claims. (Cl. 81—52.3)



2. In an impact tool, a driving shaft, a tool driven therefrom, a spirally wound flat spring rectangular in cross section, connected at its inner end to the driving shaft and at its outer end to the weight, and a second spirally wound flat spring rectangular in cross section oppositely wound to that of the first spring, and similarly connected at its inner end to the driving shaft and at its outer end to the weight.

2,662,435
PREDETERMINED TORQUE RELEASE WRENCH
Oren B. Harmes, Algona, Iowa, assignor to Livingston Tool Co., Algona, Iowa, a partnership
Application April 9, 1951, Serial No. 219,903
7 Claims. (Cl. 81—52.4)



1. An automatically releasing torque wrench comprising an at least partially hollow head member, a rotatable body mounted for free rotation in said head member and adapted to engagingly receive the element to be turned by the wrench, said body having engagement means on its circumferential surface, a handle secured to said head member and having a central bore, a rod mounted within said bore for limited sliding movement longitudinally of the handle, resilient means constantly urging said rod toward said rotatable body, and toggle mechanism connected to the outer end of said rod and nor-

mally extending diagonally with respect thereto and adapted to cooperate with said engaging means to engage said rotatable body, said toggle mechanism, being swingably mounted on said rod and disposed with respect to said head member to permit the toggle mechanism to swing to the opposite side of the longitudinal center of said rod sufficiently far to permit the same, when a sufficiently strong torque is exerted on said rotatable body, to force said rod inwardly despite said resilient means, to disengage said rotatable body to permit the latter to thereafter turn freely in the direction of that torque without being re-engaged by said toggle mechanism.

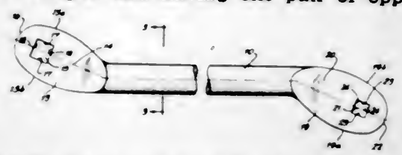
2,662,436
PREDETERMINED TORQUE RELEASE SOCKET WRENCH
Oren B. Harmes, Algona, Iowa, assignor to Livingston Tool Co., Algona, Iowa, a partnership
Application April 28, 1952, Serial No. 284,781
8 Claims. (Cl. 81—52.4)



1. An automatically releasing torque wrench comprising a handle member, a rotatable body mounted for free rotation upon said handle member adjacent one end thereof and adapted to be connected to the element to be turned by the wrench, a movable lever member carried by said handle member adjacent said rotatable body, a portion of said lever member engaging said rotatable body to ordinarily prevent its rotation, and resilient mechanism normally urging said portion of said lever member in a predetermined direction about its fulcrum to yieldably hold said rotatable body against rotation in the opposite direction so long as a predetermined torque is not applied thereto, said portion of said lever member being swingable into non-engaging position relative to said rotatable body when such predetermined torque is applied to said rotatable body to permit the latter to thereafter turn without being re-engaged by said portion of said lever.

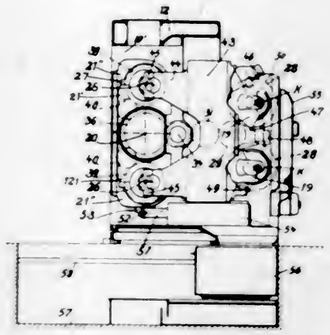
2,662,437
BALANCED WRENCH
Theron W. Reynolds, Wellsville, N. Y.
Application July 24, 1950, Serial No. 175,593
4 Claims. (Cl. 81—121)

1. An improved wrench comprising a shank, a counterbalance portion being provided on each end of said shank, one of said portions extending to one side of said shank, the other of said portions extending to the opposite side of the shank with reference to said one portion to provide a balanced wrench, and at least one of said portions having an aperture therein for receiving the head of a pipe plug or the like, at least said apertured portion being oval shaped to provide major and minor axes, said aperture being substantially square shaped and having one pair of opposed



walls disposed at substantially right angles to the major axis of the oval of the apertured portion and the other pair of opposed walls disposed substantially parallel to the major axis of the oval of the apertured portion, said aperture lying between the outer end of said apertured portion and its minor axis.

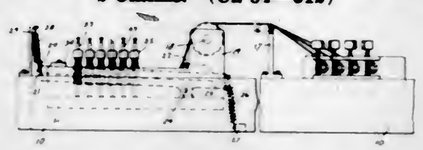
2,662,438
ORBITAL LATHE FOR MACHINING CRANKSHAFTS
Josef Irtenkauf, Goeppingen, and Alfons Grupp, Eislingen (Fils), Germany, assignors to Gebrueder Boehringer G. m. b. H., a limited liability company of Germany
Application November 21, 1951, Serial No. 257,588
1 Claim. (Cl. 82—9)



An orbital lathe comprising a frame composed of a base, of two spaced columns thereon, and of a casting rigidly connecting the tops of said columns, a cradle mounted between and pivotally connected to said columns for rocking motion about a horizontal axis and including a tubular casting having upper and lower fins, two master crankshafts of identical shape journalled in said fins of said cradle and extending parallel to said axis equally spaced therefrom, one of said crankshafts being located above and the other one below said axis, a plurality of tool supports each formed by a vertical plate having two spaced rearwardly extending arms, each of said arms being journalled on crankpins of said crankshafts and being thereby adapted upon rotation of said crankshafts to perform an orbital motion, one pair of parallel horizontal work spindles journalled in one of said columns, another pair of work spindles aligned with said first pair journalled in the other one of said columns, all of said work spindles being equally spaced from said axis, chucking means on said work spindles for attaching two crankshaft blanks thereto for rotation about two parallel work axes, means for gearing said spindles and at least one of said crankshafts for synchronous rotation, two pairs

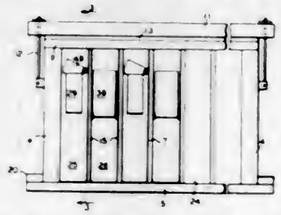
of cutting tools mounted on each of said tool supports, each such pair being co-ordinated to and arranged to embrace one of said work axes, the cutting edges of said tools being substantially equally spaced from said axis, and means mounted on said frame and connected to said cradle and adapted to impart to the latter a rocking motion in either direction for the purpose of feeding and withdrawing said cutting tools towards and from said work axes.

2,662,439
GUITAR TUNING DEVICE
Floyd B. Snodgrass, Cartersburg, Ind.
Application November 14, 1950, Serial No. 195,505
2 Claims. (Cl. 84—312)



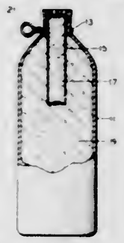
1. A tensioning means for a string instrument having one end of the string permanently anchored, comprising a pair of controlling levers for said string, one of said levers being pivotally mounted adjacent its forward end on a stationary support, the other of said levers being pivotally connected to said first lever rearwardly of said pivotal mounting, said other lever having means for anchoring the other end of said string, said means being interposed between said pivotal connections, the rearward ends of each of said levers being depressible, and vertically adjustable means selectively engageable with the rearward ends of either lever whereby the pivot point connecting said respective levers is vertically adjustable.

2,662,440
SINGLE REED CELL BLOCK
Charles De Gasero, New Hyde Park, N. Y.
Application September 10, 1951, Serial No. 245,917
4 Claims. (Cl. 84—376)



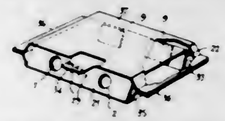
1. In an accordion including bellows, a cell block comprising a plurality of cells one adjacent the other and each the full width of the cell block, a reed plate carrying a single free reed within each cell, an individual frame member removably sealed in one side of each cell carrying a pair of air intake valves, and another individual frame member removably sealed in the opposite side of each cell carrying a pair of air escape valves, so constructed and arranged whereby when the bellows are expanded air is drawn into a cell through one of the intake valves and in vibrating the free reed escapes from the cell into the bellows through one of the escape valves, and when the bellows are compressed air is forced into the cell through the other of the intake valves and in vibrating the free reed escapes from the cell through the other of the escape valves, an air-tight cover common to the several cells of the block, and latching means whereby the cover may be readily removed, the reed plate and interior of each cell being exposed upon removal of the cover.

2,662,441
METHOD OF MAKING EXPLOSIVE ASSEMBLIES
William R. Farren, Kennett Square, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application June 23, 1948, Serial No. 34,617
1 Claim. (Cl. 86—20)



A method for making an explosive assembly which comprises placing a cylindrical tube over a mandrel having a diameter substantially less than that of the tube, collapsing and gathering together the periphery of an end of said tube about said mandrel, tying the collapsed and gathered portion of said tube, withdrawing said mandrel from said gathered portion, inserting a core cartridge of gelatin dynamite in place of said mandrel, tying said collapsed and gathered portion about said core, filling said shell from the opposite end with an ammonium nitrate explosive, and closing said opposite end.

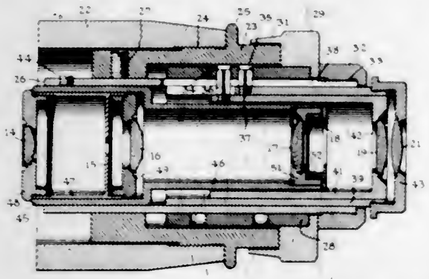
2,662,442
COLLAPSIBLE PICTURE VIEWING DEVICE
John Pinkney Gowland, Santa Barbara, Calif.
Original application March 17, 1950, Serial No. 150,333. Divided and this application August 3, 1951, Serial No. 240,235
Claims priority, application Great Britain March 18, 1949
6 Claims. (Cl. 88—1)



1. A collapsible picture viewing device comprising inner and outer mutually supporting collapsible structures, the inner structure including a top wall plate, a front wall plate having viewing aperture means, a bottom wall plate, and a rear wall plate for supporting a picture to be viewed, all hingedly connected to form a collapsible parallelogram structure, the outer structure comprising two side wall plates hingedly connected to the bottom wall plate at the two ends respectively along lines extending at right angles to said front and back wall plates, and a top cover plate approximately co-extensive with said top wall plate and hingedly connected to said side wall plates so as to form with the latter a frame structure which will frictionally support the parallelogram structure in its erect position, said side wall plates being each collapsible

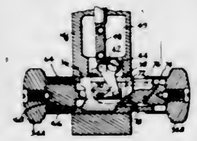
outwardly of said frame structure so as to permit, when the parallelogram structure is folded, said frame structure to be folded by collapsing said side walls without the risk of the side walls fouling the front and back walls.

2,662,443
ERECTING EYEPIECE WITH VARIABLE MAGNIFICATION
Günther F. E. Loeck, North Troy, N. Y., assignor to W. & L. E. Gurley, Troy, N. Y., a corporation of New York
Application August 27, 1951, Serial No. 243,811
4 Claims. (Cl. 88—32)



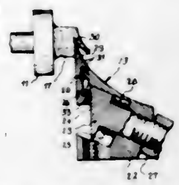
1. A variable magnification erecting eyepiece for telescopes which comprises in combination a fixed erecting lens system having a fixed posterior focal plane; at least two optically alined ocular lenses; means supporting said ocular lenses for movement along their optical axes relatively to each other and relatively to said posterior focal plane; and means for imparting coordinated simultaneous movements to said supporting means to vary magnification while maintaining focus on said focal plane throughout movement of said ocular lenses along their axes.

2,662,444
ADJUSTMENT MECHANISM FOR MICROSCOPES
Albin A. Gradisar, Snyder, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Original application June 29, 1946, Serial No. 680,446, now Patent No. 2,560,169, dated July 10, 1951. Divided and this application March 14, 1950, Serial No. 149,568
3 Claims. (Cl. 88—39)



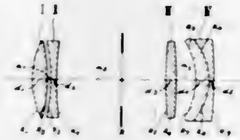
1. In a microscope of the character described, the combination of a first supporting member adapted to support optical elements of the microscope, a second supporting member for supporting said first member, guide means interconnecting said supporting members so as to allow rectilinear movement of said first member relative to said second member, and a fine adjustment mechanism for causing said rectilinear movement in a first direction, said adjustment mechanism comprising an abutment member carried by said first supporting member and arranged to move therewith, a substantially rectilinear abutment surface on said abutment member disposed perpendicularly to said first direction, operable driving means carried by said second supporting member and including a driving member and a control member, said driving member being arranged to move in a second predetermined direction at an angle to said first direction for producing a driving force, a substantially rectilinear surface on said driving member disposed perpendicularly to said second direction, said control member being connected to said driving member for moving said driving member relative to said second supporting member, a uniformly calibrated scale and an index mark adjacent thereto, said scale and index mark being carried in fixed relation to said control member and said second supporting member respectively so as to indicate amounts of relative movement therebetween, and a lever pivotally mounted upon means carried in fixed relation to said second supporting member and comprising a relatively short arm and a relatively long arm having arcuate bearing surfaces thereon operatively engaging said abutment surface and said rectilinear surface on said driving member, respectively, said lever and the abutment and driving members operatively associated therewith being so constructed and arranged that planes passing through and containing the pivotal axis of said lever and passing through the geometric centers of said arcuate bearing surfaces, respectively, will form for all operative positions of said lever an included angle which is substantially equal to the angle of deviation formed between said first direction and said second direction; whereby all equal increments of movement of said control member will produce corresponding increments of travel of said first supporting member and optical elements in said first direction which are equal and proportional to the ratio of said lever arms, thereby producing a constant lever arm ratio for said adjustment mechanism.

2,662,445
MICROTOME KNIFE
George W. Jacoby, Jr., Wooster, Ohio
Application August 17, 1950, Serial No. 180,067
6 Claims. (Cl. 88—40)



1. In a microtome, an elongated plate having a front face and a longitudinal rib on said face, an elongated cutting blade having a pair of continuous longitudinal spaced apart ledges parallel to the cutting edge, one of said ledges being in complementary engagement with said rib, an arcuate upper face on said plate extending downwardly and away from said front face, an arcuate wall on said blade in register with said arcuate face on the plate and extending to said cutting edge, and clamping means operably carried by said plate engaging the face of the other ledge whereby the blade is releasably held against movement relative to the plate and positionable therealong with the arcuate wall of the blade and the arcuate surface of the plate forming a smoothly contoured surface.

2,662,446
PHOTOGRAPHIC TELEOBJECTIVE HAVING A COMPOSITE POSITIVE FRONT PART AXIALLY SPACED FROM A COMPOSITE NEGATIVE REAR PART
Albrecht Wilhelm Tronnier, Gottingen, Germany, assignor to Voigtlander A. G., Braunschweig, Germany, a corporation of Germany
Application December 13, 1951, Serial No. 261,505
6 Claims. (Cl. 88—57)



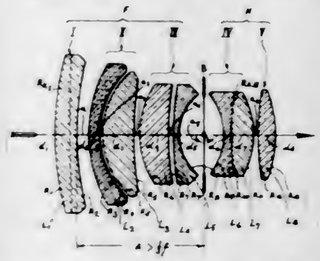
1. Photographic tele-system objective, comprising a composite front part of positive total refractive power turned toward the side of the major conjugate, said front part being separated by a wide air space from a likewise composite rear part having a total diverging power and being arranged on the side of the minor conjugate, said composite front part being of the Fraunhofer type and consisting of a biconvex converging lens and a diverging lens of unequal curvature, following said biconvex lens in the direction of light, said composite rear part being likewise of the Fraunhofer type, the air space between said front part and rear part being limited, on the side of the minor conjugate by a biconvex converging lens followed, in the direction of light, by a diverging lens of unequal curvature, the latter having a strongly diverging concave surface turned toward said biconvex converging lens, the lens elements of the objective meeting the condition of R_Z being in the range between

$$\frac{20}{100} \cdot R_3 \text{ and } \frac{60}{100} \cdot R_3$$

wherein R_Z is the length of radius of curvature of said strongly diverging concave surface, and R_3 is the length of the radius of curvature of the front surface, which is concave toward the side of the major conjugate of said diverging lens of unequal curvature, of the front part of the objective.

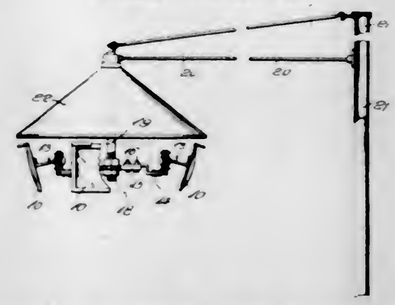
2,662,447
MODIFIED GAUSS-TYPE HIGH-SPEED PHOTOGRAPHIC OBJECTIVE WITH ANASTIGMATIC FLATTENED FIELD
Albrecht Wilhelm Tronnier, Gottingen, Germany, assignor to Voigtlander, A. G., Braunschweig, Germany, a corporation of Germany
Application January 25, 1952, Serial No. 268,308
Claims priority, application Germany June 21, 1951
3 Claims. (Cl. 88—57)

1. Modified photographic Gauss-type objective of high light-transmitting capacity and anastigmatic flatness of the image field, comprising two half objectives separated by a centrally arranged diaphragm, a half objective located on the side of the minor conjugate being of the conventional three element Gauss-type, while the half objective located on the side of the major conjugate consists of a meniscus-shaped first front member, which limits the total objective on the outer side of the total objective and is concave relative to the diaphragm, and a first and a second pair of menisci follow said first member in the direction of light, in the space between said first member and the diaphragm, the first pair of menisci consisting of a negative meniscus followed by a positive meniscus, and the second pair of menisci consisting of a positive meniscus followed by a negative meniscus, in the direction of light, all surfaces of the menisci forming said first and second pair, having convex curvature



relative to the side of the major conjugate, the distance, along the optical axis, between the centrally arranged diaphragm and the vertex of the rear surface of the first meniscus-shaped lens of the half objective located on the side of the major conjugate, being in the range of $\frac{1}{3}$ and $\frac{2}{3}$ of the equivalent focal length of the total objective.

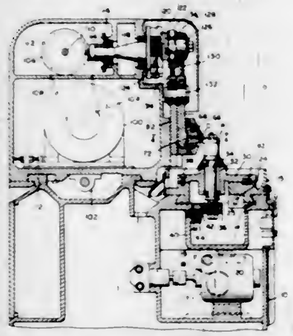
2,662,448
TRAFFIC MIRROR DEVICE
Georges A. Couture, Quebec City, Quebec, Canada
Application November 17, 1950, Serial No. 196,207
Claims priority, application Canada November 17, 1949
1 Claim. (Cl. 88—78)



A mirror for viewing traffic at street intersections comprising a standard, an arm fixedly connected at one end to and extending substantially perpendicular from an upper portion of said standard, an eye mounted on the upper end portion of said standard above said arm, a second arm having a hook shaped end inserted through said eye for being pivotally connected thereto, a rod detachably connected at one end to the opposite end of said second arm, a conical hood having a central opening with said rod extending therethrough and the apex of said hood being connected to said first mentioned arm, a cross-shaped member detachably mounted on the lower end of said rod and extending substantially perpendicular therefrom, a plurality of legs each adjustably mounted for longitudinal movement on one arm of said cross-shaped member and extending substantially in a horizontal position, a plurality of brackets each mounted on the outer end of one of said legs and having a vertically extending portion, each vertical portion of said brackets having a

semi-spherical recess provided in the outer face thereof, a plurality of plates each having a semi-spherical recess provided in a face thereof and being adjustably connected to one of said leg vertical portions with the respective recesses facing one another, said plates each having an opening provided through their respective recess, a plurality of balls each mounted in the recess between a plate and a bracket, a plurality of support arms each extending from one of said balls through a plate opening, and a plurality of elongated mirrors each mounted on an end of one of said support arms and positioned for viewing traffic from therebelow.

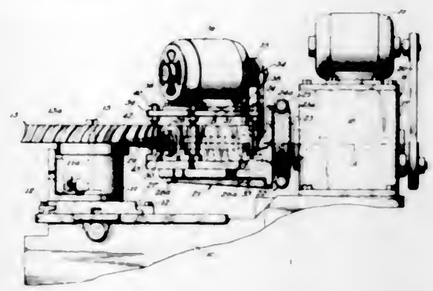
2,662,449
GEAR SHAPING MACHINE
Walter S. Praeg, Detroit, Mich., assignor, by mesne assignments, to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application November 30, 1949, Serial No. 130,244
3 Claims. (Cl. 90—8)



1. A gear shaping machine comprising a base, ways on said base, a work carriage slideable on said ways, means to feed said work carriage on said ways, work supporting means mounted on said carriage, means on said work supporting means to support a work blank, a master gear similar to said work blank to be cut connected to said work supporting means, a master rack having teeth meshing with the teeth of said master gear so as to impart a generating roll to said work blank, a cutter slide reciprocable relative to said work supporting means, means to reciprocate said cutter slide, a cutter having a tooth carrying portion with teeth extending substantially parallel to the teeth of said master rack, said cutter having a base portion fixed to said cutter slide and spaced from said tooth carrying portion and joined thereto by a flexible web and means for adjusting the angularity of said work supporting means relative to the direction of reciprocation of said cutter slide in accordance with the teeth to be formed on said work blank.

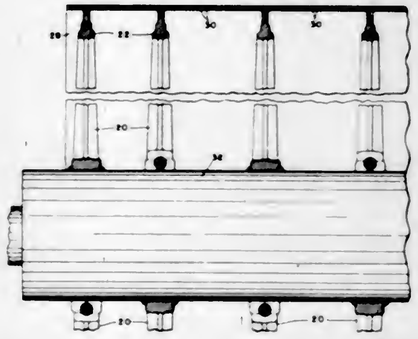
2,662,450
MACHINE FOR MILLING IMPELLER WHEELS
Pierce T. Angell, Cleveland, and Charles D. Vaughn, Wickliffe, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application November 26, 1948, Serial No. 62,042
5 Claims. (Cl. 90—15.1)

2. In combination a base, a power driven spindle mounted for rotation on said base having an axis of rotation spaced thereabove, a bracket secured to said spindle for movement therewith, a rotary cutter journaled on said bracket for rotation about an axis that intersects the axis of said spindle, a platform adjust-



ably mounted on said bracket and spaced thereabove, a motor mounted on said platform and a drive member connecting said motor to said rotary tool for driving the same.

2,662,451
FORMING ROLL
Lawrence G. Zesbaugh, Minneapolis, Minn., assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn.
Application July 21, 1950, Serial No. 175,059
2 Claims. (Cl. 92—43)



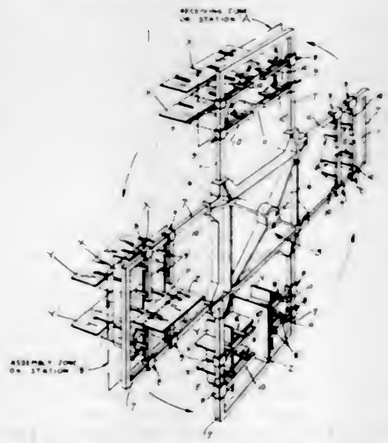
1. A forming roll of the character described used in an apparatus for making fiber composition board from a fiber slurry, comprising a substantially, horizontally extended shaft, a plurality of spaced apart spiders secured upon the shaft, a rim on the outer side of each spider of narrower width than the spider and having a cylinder contacting portion narrower than the rest of the rim with the surface contacting portion of the rim having sloped notches therein on opposed sides, said notches extending through the side faces of the rim the notches on one side of the rim offset from the notches on the other side a metal covering secured on the spider rims and in contact with the cylinder contacting portions, the metal covering provided with uniformly spaced water drainage passages, and a foraminous member secured over the metal covering, the water drainage passages in the metal covering occuring over the spider rim contacting portions registering with the sloped notches in the spider rim contacting portion.

2,662,452
MACHINE FOR MAKING PRINTED, CORRUGATED BOX BLANKS
Melvin H. Sidebotham, Winchester, Mass.
Application September 26, 1952, Serial No. 311,601
4 Claims. (Cl. 93—36)



1. A machine for making printed, corrugated, paper containers, comprising means for causing two webs of paper to travel; corrugating rolls for operating on one of the webs; means for applying heat to the other web and then adhesively connecting the corrugated web to the other web to provide a single faced corrugated web; an accumulator device; advancing means to convey the combined web to the accumulator device; means for causing a third web of paper to travel; a printing unit to print the third web; means to convey and guide the third web to a web heating device; a dance roll positioned to ride in a loop in the third web, between the printing unit and the third web heating device; an adhesive applying device for securing the printed third web to the free side of the corrugated web, to form a printed, double faced, corrugated web; means for advancing the printed, double faced, corrugated web; means for heating and then cooling the printed, double faced, corrugated web; cutting devices to trim the longitudinal margins of the printed, double faced, corrugated web; devices to apply longitudinal creases in the web; a cutting and creasing cylinder operatively positioned to transversely cut and crease the web; a horizontally movable base for supporting the cutting and creasing cylinder; a hand operated device for horizontally adjusting the movable base in its relation with the printing unit; and means for delivering completed blanks from the machine.

2,662,453
CELL CASE PARTITION ASSEMBLING MACHINE
George G. Porter, Miami, Fla.
Application October 13, 1947, Serial No. 779,432
32 Claims. (Cl. 93—37)



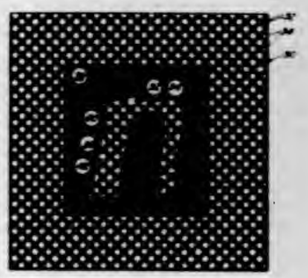
1. In a cell case partition assembling machine, a partition holder, a cell case partition dispenser located at one side of the partition holder and delivering cell case partitions intermittently and in one direction to said holder, another cell case partition dispenser located at the opposite side of said holder and delivering cell case partitions intermittently and in the opposite direction each into a position of crossed assembled relationship with a partition held by said holder, and mechanism operating said dispensers simultaneously.

2,662,454
FLOAT TROWEL FOR CEMENT FLOOR FINISHERS
Marvin Edwin Whiteman, Los Angeles, Calif.
Application April 12, 1948, Serial No. 20,385
3 Claims. (Cl. 94—45)



2. In combination with a cement floor finisher having one or more finish trowels mounted for rotation thereon and adapted to be moved over a floor to be finished, corresponding float trowels underlying the finish trowels, said float trowels having rearwardly open pockets formed thereon adjacent the leading edges thereof partially receiving the finish trowels, and means on the float trowels for releasably retaining the float trowels on the finish trowels.

2,662,455
MEANS FOR GRAVURE PRINTING OF TYPOGRAPHICAL CHARACTERS
Herman R. Freund, Brooklyn, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York
Original application June 8, 1949, Serial No. 97,882. Divided and this application November 6, 1951, Serial No. 255,059
4 Claims. (Cl. 95—4.5)



1. A type character-bearing element for use in the photographic reproduction of type matter by the gravure process, said element bearing, against an opaque background, a typographical character translucent except for an internal pattern of spaced, opaque lines extending substantially throughout the entirety of said character but terminating short of the outline thereof to leave a substantially continuous translucent margin extending around said outline.

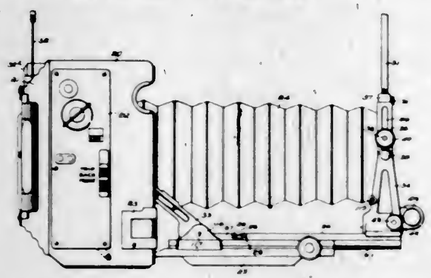
2,662,456

FRONT SUPPORT MEMBERS AND BELLOWS MOUNTING MEANS FOR PHOTOGRAPHIC CAMERAS

Oscar Steiner, Rochester, N. Y., assignor to Graflex, Inc., Rochester, N. Y., a corporation of Delaware

Original application May 1, 1947, Serial No. 745,182, now Patent No. 2,575,197, dated November 13, 1951. Divided and this application November 25, 1949, Serial No. 129,320

9 Claims. (Cl. 95—50)



1. In a photographic camera of the folding type, a rectangular lens board having a peripheral flange extending substantially right angularly therefrom, and a rectangular lens board support member therefor, said lens board support member being composed of two rectangularly-shaped, open frame members, one of which is of slightly larger area than the other, for internesting together, and each having inner and outer peripheral flanges facing those of the other when the said two open frame members are positioned, the outer flanges of said two open frame members being telescoped upon and engaging each other in internesting relation, when positioned, and the inner flanges of said two open frame members, when positioned, being spaced sufficiently apart in radial directions, to receive between them said peripheral flanges of the said rectangular lens board, and means to secure together, internested, the said parts of said lens board support member with the said lens board held in its said position.

2,662,457

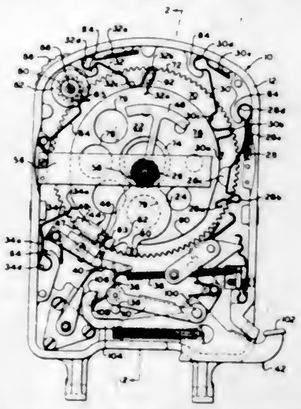
COMBINED SHUTTER AND DIAPHRAGM MECHANISM FOR CAMERAS

Murry N. Fairbank, Belmont, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application November 4, 1948, Serial No. 58,258

6 Claims. (Cl. 95—64)

1. A camera shutter comprising a housing, means for supporting a shutter blade in operative relation to an exposure aperture in said housing, said shutter blade normally covering said aperture and being supported for rotary movement to a position where said aperture is uncovered, means for imparting an aperture-uncovering rotation of predetermined speed to said shutter blade, means for reversing rotation of said shutter blade to cause said shutter blade to return to aperture-covering position, said last-named means comprising a bounce spring, said spring including a shutter blade-engaging portion, a resilient portion arranged to permit said first-named portion to move in a direction substantially tangential to the path followed by a part of the shutter blade, another portion for engaging a support and a cam-engaging portion, a cam for moving said shutter blade-engaging portion of said spring with respect to said path of said shutter blade, said support-engaging portion positioning said spring so that said cam-engaging portion is held in resilient contact with said cam in substantially all positions of said cam, and a



rotatably mounted diaphragm, a portion of said bounce spring being arranged to engage one surface of said diaphragm and prevent axial movement of said diaphragm.

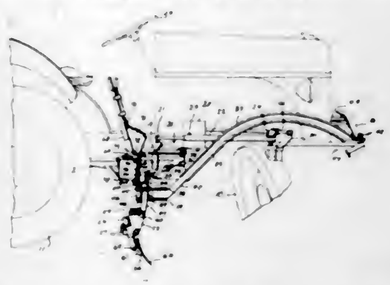
2,662,458

GRAPE HOE GUIDED BY TRACTOR STEERING MECHANISM

Robert E. Ermey, Wapato, Wash.

Application January 17, 1950, Serial No. 139,044

2 Claims. (Cl. 97—47.06)



1. A grape hoe for attachment to a tractor comprising a basic frame mounted on the chassis of the tractor, a socket member on the basic frame, a bellcrank lever pivotally mounted on said member, a rod pivotally connected at one end to one leg of said bellcrank lever, a tube pivotally connected at one end to a steering link of the tractor and its opposite end portion telescopically receiving the other end portion of said rod, a sleeve pivotally connected at one end to the other leg of the bellcrank lever, a second rod having one end portion telescopically received by the opposite end portion of said sleeve, a beam pivotally connected at one end to the tractor, a pair of spaced apart bars each having one end portion secured to the other end portion of said beam, a standard on one of said bars, the other end of said second rod being pivotally connected to said standard, means for securing said rods in said tube and sleeve in preselected adjusted positions, a second tube secured at one end to said frame, a slide shaft having one end portion telescopically received by said second tube and its other end portion extending through and beyond said bars, a bearing on said slide shaft, a connecting element carried by said bars for connecting said bearing to said bars, and a cultivator on the extended end of said slide shaft.

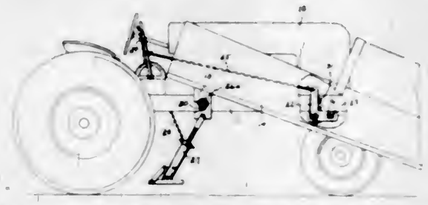
2,662,459

MEANS FOR DETACHABLY SECURING IMPLEMENTS TO TRACTORS

Richard B. Shore, Waterloo, Iowa

Application June 17, 1949, Serial No. 99,600

2 Claims. (Cl. 97—47.15)



1. In combination with a tractor and an implement, an attaching means, comprising, a transverse shaft rotatably mounted on and near the front end portion of said tractor, means for manually rotating said shaft, an L-member rigidly secured to each end portion of said shaft, said member having a downwardly and then rearwardly extending notch in the upper front end of the normally horizontal portion of each of said L-members, an outwardly extending horizontal spool on each side of said tractor and located to the rear of said L-members, two stub shafts on said implement capable of entering and engaging the notches in said two L-members respectively, and two rigid members on said implement each having a notch opening to the rear for receiving and engaging said two spools, respectively, the distance between the respective notches in said L-members and said spools on each side of said tractor being the same as that between the respective stub shafts and notches in the rigid members on each side of said implement.

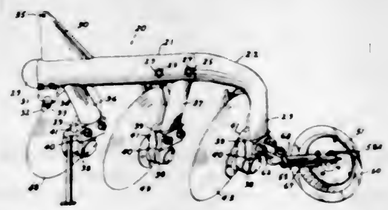
2,662,460

IMPLEMENT WITH PLURALITY OF PLOW ELEMENTS

Herman G. Klemm, Birmingham, and Noral A. Nelson, Royal Oak, Mich., assignors to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application April 11, 1949, Serial No. 86,752

10 Claims. (Cl. 97—53)



1. Apparatus comprising a supporting structure, a plurality of plow discs mounted thereon, a furrow wheel, and means mounting the furrow wheel on the supporting structure for pivotal movement of the furrow wheel about an axis generally transverse to the direction of movement of the plow discs during operation, said mounting means including an arm pivoted adjacent one end on the supporting structure and having a part adjacent the other end journaling said wheel, said axis being inclined at an angle to the horizontal such that the furrow wheel is maintained at a uniform angle and generally transverse to the said axis during its pivotal movement.

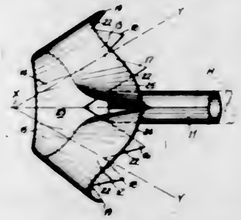
2,662,461

HOE

Walter L. Upson, Litchfield, Conn.

Application December 28, 1950, Serial No. 203,111

1 Claim. (Cl. 97—65)



A cultivating hoe adapted for ridging and hilling purposes formed of a blank of sheet metal, and including a blade portion provided with a deeply toothed cutting edge with the teeth thereof arranged symmetrically with respect to a longitudinal median line, and disposed along a substantially curved tooth line convexly presented toward the earth engaged by the hoe, the teeth in the central region being of materially greater area than the teeth laterally of the cutting edge; the blade portion being substantially planar over a major portion of its area in the center region of such portion and curved upwardly at each side of such portion; a pair of resilient arms of flat strip form extending forwardly and upwardly of the sides of the blade portion, thence rearwardly and upwardly, the said arms being widely curved in form, each as a section of a cylinder produced on relatively convergent axes mutually intersecting close to a produced handle axis at about the working level of the hoe; the widely curved arms, which are formed as sections of said cylinders, and the blade portion constituting a convergent funnel-like throat structure of appreciable longitudinal dimension, the throat structure being convergent from front to back to provide a large front throat opening and a small elevated back throat opening that is disposed completely above the working level of the blade portion, the throat structure formed by the curved arms and cooperating blade portion being adapted laterally to consolidate and simultaneously to elevate earth from the front throat opening for discharge through the smaller back throat opening, whereby to provide a hilling agency; the upper or outer extremities of the resilient arms being reversely curved toward each other and formed to provide an elongate tubular handle socket, the axis of which lies at an angle of the order of 40–50 degrees to the plane of the central blade portion, whereby to present the blade close to a parallel relation to the surface of the earth over which the hoe is worked.

2,662,462

CULTIVATOR

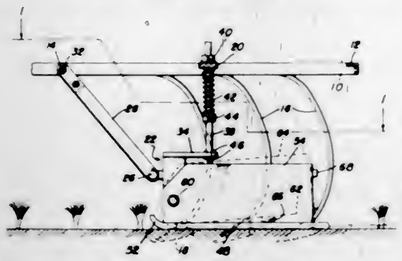
Lester Hammon, Poplar Bluff, Mo., assignor of fifty per cent to E. A. Maddux, Butler County, Mo.

Application January 18, 1951, Serial No. 206,653

5 Claims. (Cl. 97—188)

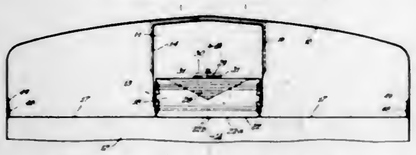
1. In a cultivator having longitudinally disposed side frame elements secured together by a

transverse rear frame element, a cultivator unit comprising a forwardly disposed cross rod, a rearwardly disposed cross bar, said cross rod and said cross bar being secured on said side frame elements, an inverted U-shaped frame including parallel arms, pivots secured on said arms, links extending between and pivotally secured to said cross rod and said pivots, a pair of elongated cylindrical deflectors rigidly secured to the ends of said arms as by welding, said deflectors being



arranged substantially parallel and extending rearwardly from said U-shaped frame, a rearwardly extending lug rigidly attached to the bight portion of said U-shaped frame, said lug having an aperture adjacent the rearward end thereof, said cross-bar having an opening therein, a vertically extending rod received in said aperture and extending through said opening in said cross-bar, said rod being in free sliding relation with said cross-bar, resilient means mounted on said shaft biasing said U-shaped frame downwardly with respect to said cross bar.

2,662,463
MODULAR PRESSURE-DISPLACEMENT TYPE VENTILATING APPARATUS
Edwin J. Kurek, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application February 27, 1950, Serial No. 146,493
3 Claims. (Cl. 98—13)



1. In a modular pressure-displacement type ventilating apparatus, a plurality of pan-like prototypes, one species comprising a standard pan, a second species comprising a valve pan dimensionally similar to said standard pan with a valve opening therein, and a third species comprising a distribution pan dimensionally similar to said standard pan and having a foraminated surface, each of said pan-like prototypes having flanged wall portions bent away from and surrounding each of said surfaces, frame runners having coupling elements on opposite sides thereof engagingly receiving the flanged wall portions of the prototypes in coupling relationship, a number of said first species and at least one of said second species of said prototypes being assembled on one side of said frame runners, and at least one of the third species assembled on the other side of the frame runners, all of said prototypes together with the frame runners forming an enclosed air chamber, duct means connected to said second species and flowing air into said chamber through said valve opening, valve means carried by said second species of said prototypes in control of said valve opening therethrough to regulate the flow of air into said air chamber, whereby a restricted flow of air introduced into said air chamber is diffused outwardly through the foraminous surface defined by said third species of said prototypes.

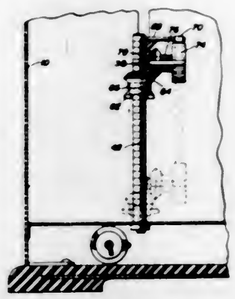
2,662,464
SEAL FOR COFFEE MAKERS
Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application June 4, 1949, Serial No. 97,175
1 Claim. (Cl. 99—292)



1. In a coffee maker, a lower bowl having an upwardly and outwardly tapered wall which defines a top opening, an upper bowl having a downwardly and inwardly tapered wall at its lower end of a diameter less than said top opening shaped to define an annular re-entrant bead spaced upwardly from the lower end of said upper bowl, and a sealing ring of resilient material for sealing the space between said outwardly tapered wall and said downwardly and inwardly tapered wall when said walls are positioned in spaced relation relatively to each other comprising an annular body ring circular in cross section and of a diameter less than that of said re-entrant bead, an annular radially extending web section surrounding and integral with said body ring of a radial length sufficient to extend across the space between said walls, and an annular lip integral with the outer edge of said web section, said annular body ring being positioned in said re-entrant bead whereby it is under tension and having a cross-sectional diameter such that it projects beyond the confines of said re-entrant bead to form an annular seat surrounding the inwardly tapered wall of said upper bowl, and said web being thereby stressed to cause it to assume a conical shape to bring said annular lip into sealing engagement with the top edge of said upwardly and outwardly tapered wall when said web is deflected downwardly with respect to said body ring and to permit said body ring to engage said upwardly and outwardly flared wall when said web is deflected upwardly with respect to said body ring and said annular seat on said body ring to rest against the upwardly and outwardly tapered wall which forms the top opening of said lower bowl.

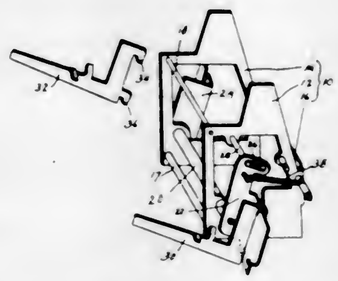
2,662,465
AUTOMATIC BOILER AND TOASTER
Earl O. Beer, Milford, Ind.
Application August 1, 1950, Serial No. 177,064
3 Claims. (Cl. 99—335)

1. In a toaster having a casing including a bread toasting compartment, a tray in said toasting compartment, a slot in said casing, and supporting members extending through said slot and attached to said tray, a timing mechanism controlling the raising of said tray after the tray has been lowered in the compartment, said timing mechanism comprising a threaded post, a split bevel gear threadedly engaged on said post, a forked lever engaging said split bevel gear, a split spring about said split bevel gear, said forked lever being pivotally attached to said support member, a shaft journaled in said member, a rod carried by said post, a second bevel gear on said



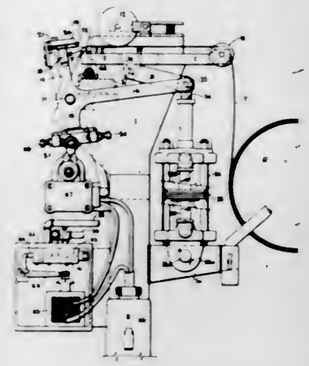
shaft engaging said split bevel gear, and spring means terminally secured to said shaft and said rod for rotating said rod and second bevel gear to rotate said split bevel gear.

2,662,466
BREAD-ACTUATED CONTROL FOR TOASTERS
Murray Ireland, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application December 10, 1949, Serial No. 132,303
2 Claims. (Cl. 99—391)



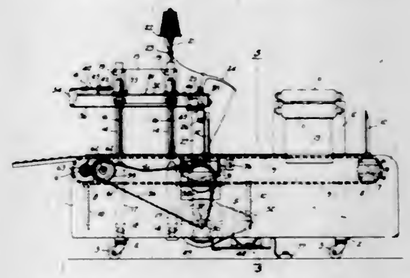
1. In combination in an automatic cooking device, an oven, a carriage disposed wholly outside said oven and mounted for vertical movement, a supporting bracket member hingedly mounted on said carriage for limited movement about a substantially horizontal axis and disposed outside said oven, an elongated rack extending across said oven from side to side thereof in a direction approximately perpendicular to said axis, means mounting said rack on said supporting bracket member in relatively fixed vertical position with respect thereto and with permissive lateral movement relative thereto whereby said supporting bracket member and rack pivot in unison about the hinge axis to swing the rack up and down relative to said carriage, a vertical guide in said oven for limiting lateral movement of said rack, and a stop on said carriage cooperating with said bracket member for limiting pivotal movement of said supporting bracket member and resultant downward pivoting of the rack beyond a substantially horizontal position in said oven to enable the rack to support food thereon in said oven.

2,662,467
MACHINE FOR WRAPPING TIRE BEADS
Gustav A. Kaebnick, Russel Dale Parr, and James L. Otstot, Carlisle, Pa., assignors to Carlisle Corporation, Carlisle, Pa., a corporation of Delaware
Application January 11, 1950, Serial No. 137,962
21 Claims. (Cl. 100—4)



1. In a machine for wrapping tire beads, a fixed U-shaped work-receiving trough having an open mouth, means for feeding binding tape across said mouth, a movable tape engaging bar, a tape cutting knife movable with said bar, and control means in said trough responsive to the impact with the work for activating said bar and knife.

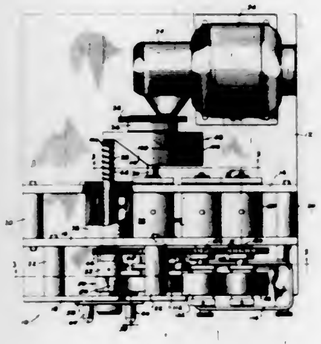
2,662,468
BUNDLING MACHINE
Michael G. Shenigo, Sandusky, Ohio, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio
Application October 5, 1951, Serial No. 249,872
9 Claims. (Cl. 100—21)



1. A machine for bundling and tying paperboard box blanks or the like comprising a conveyor having a bed for supporting a pile of box blanks and a pusher for advancing the pile along the bed, means for actuating said pusher to advance a pile of blanks a predetermined distance, means for suspending a string in the path of said pile and for anchoring an end of the string so that the string will be drawn over the front and across the top and bottom of the pile as the pile is advanced by said pusher, laterally spaced downwardly movable flexible pressure applying members engageable with the top of the pile on opposite sides of the string and bendable over the top corners of the pile, tying means for drawing the string over the rear of said pile and tightening and tying the same while the pile is compressed by said members, and means for actuat-

ing said pressure applying members and said tying means upon completion of said pile advancing movement.

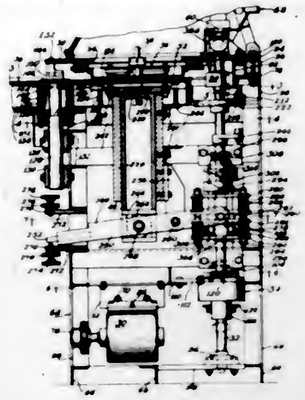
2,662,469
MARKING DEVICE
Ira S. Gottscho, Milburn, N. J., assignor to Adolph Gottscho, Inc., Hillside, N. J., a corporation of New York
Application May 26, 1951, Serial No. 228,459
18 Claims. (Cl. 101—38)

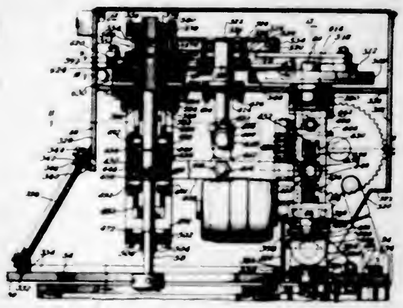


1. A printing device for marking the inner surfaces of tubular articles comprising means for rotatably supporting a tubular article at a printing station; a rotating printing element of segmental configuration movable axially between said printing station, at which it is peripherally engageable with the inner surface of a tubular article there supported, and an inking station remote from said printing station; inking means peripherally engageable with said printing element at said inking station to apply ink to said element; and means reciprocating said segmental printing element axially between said printing and inking stations when said printing element is angularly positioned away from the tubular article and inking means, respectively.

2,662,470
STENCILING MACHINE
Rufus G. Fordyce, Glencoe, Ill., assignor to Luminous Processes, Inc., Chicago, Ill., a corporation of Delaware
Application May 12, 1949, Serial No. 92,851
50 Claims. (Cl. 101—123)

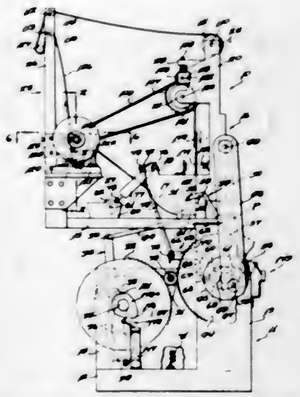
1. Stenciling apparatus comprising a stencil screen, a squeegee at one side of said screen, work carrier means at the other side of said screen, means for substantially simultaneously moving said squeegee and the work carried by said carrier means relatively in a direction axially of the squeegee toward and away from said screen between fixed positions at which the parts are respectively in paint spreading relationship and in stenciling relationship, means for rotating the squeegee alternately with movement of said squeegee in the plane of one of said parts at both fixed positions of the squeegee and work carrier means to completely sweep the squeegee across the screen and thereby cause paint to be spread on the screen when the parts are in paint spreading relationship and to be applied through the screen onto the article being stenciled when the parts are in stenciling relationship, a single power driven shaft for driving all of said means automatically to complete a stenciling operation, and





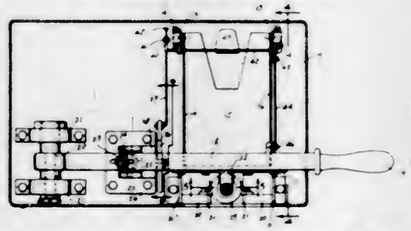
means for interrupting operation of the shaft each time a stenciling operation is completed.

2,662,471
INTAGLIO ENGRAVING PRESS
Edmund A. Gillis, Oceanside, N. Y., assignor to The Cronite Co., Inc., New York, N. Y., a corporation of New York
Application April 6, 1950, Serial No. 154,258
15 Claims. (Cl. 101—164)



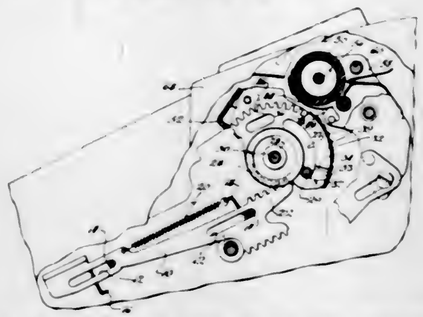
1. In an intaglio printing press, a wiping pad, an endless belt in engagement with the pad, means to move the wiping pad against the belt and to retract the pad, a die, means to move the die against a portion of the belt which contacts the pad, means to ink the die, a common drive means for operating the pad moving and retracting means, the die moving means and the inking means, separate drive means for intermittently advancing the belt past the pad, and electrical switch actuated means controlled by said common drive means for synchronizing the advance of the belt with the movement of the pad, die and inking means.

2,662,472
RECEIPTING AND DEPOSITING MACHINE
Samuel McConaha, Jr., John N. Bills, and Elsie Jean McConaha, Indianapolis, Ind.
Application June 6, 1951, Serial No. 230,174
2 Claims. (Cl. 101—316)



1. In combination a closed receptacle having a deposit slot in a wall thereof, a supporting platform movably mounted within said receptacle opposite said slot for the reception of a deposited container; a reciprocating severing blade reciprocable past said slot for severing that portion of a container deposited on said platform from the remaining portion of the container; a stamp including a shaft connected with said blade for printing predetermined indicia on that portion of the container unsupported by said platform; a rod connected with the blade and the platform for effecting the operation of the platform to discharge therefrom the supported portion of the container, a stop normally in the way of said blade, and a tongue operatively connected to said stop for engagement by the container when deposited on said platform for controlling the operation of said stop to release said severing blade.

2,662,473
REMOVABLE LOGOTYPE STRUCTURE FOR CALCULATING MACHINES
Erhard M. Lippert, Chicago, Ill., assignor to Victor Adding Machine Co., Chicago, Ill., a corporation of Illinois
Application September 20, 1951, Serial No. 247,492
3 Claims. (Cl. 101—378)



1. In a printing mechanism for calculating machines and the like, the combination of a hub, a pair of gear segments secured to the hub in spaced relation, each of said segments having two arm-like parts extending arcuately toward one another to define with the main portion of the segment a partially complete arcuate slot, a pair of pins respectively secured to and extending between corresponding arm-like parts, and an arcuate logotype positioned between the segments and having generally radial end surfaces provided with transverse grooves for the reception of the pins, the arm-like parts being sufficiently resilient that the logotype may be inserted and removed by forcing the pins apart a sufficient distance to permit disengagement of the pins from the grooves in the ends of the logotype.

2,662,474
WELL CASING PERFORATOR
George F. Turechek, Los Angeles, and Will H. Lindsay, Jr., Lawndale, Calif., assignors to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application July 25, 1949, Serial No. 106,568
5 Claims. (Cl. 102—20)

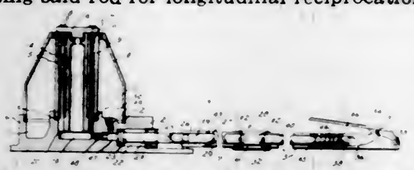


1. In apparatus for perforating well casings the combination comprising: a body having an axial bore therein; a series of radial ports extending from said bore through the wall of said body and disposed at intervals longitudinally of said body; a series of shaped charges within said bore, each charge being directed toward one of said ports; interengaging means on each charge and on the wall of said body diametrally opposite each port in said body; and aligning means extending from each said port to each said charge for securing the charge in place accurately centered as to its port, said aligning means comprising a ring engaging the forward end of each charge, an expansible sleeve inserted through the port and against said ring, and an inner tapered sleeve forced into the inside of said expansible sleeve to expand the same into frictional engagement against the inner walls of the port.

2,662,475
FOOT OPERATED HYDRAULIC PUMP
George W. McLellan, Bartlesville, Okla.
Application June 5, 1950, Serial No. 166,232
2 Claims. (Cl. 103—41)

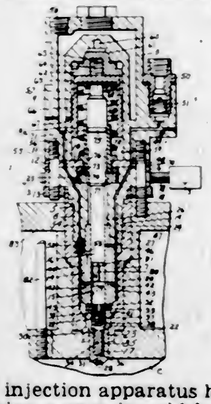
1. In a pump including a base, a horizontal pump cylinder mounted in fixed relation on said base, a piston operating in said cylinder: a piston-actuator assembly comprising an elongated collapsible, ground-engaging frame, pivotally mounted at one end on said base and adapted to

be swung to a horizontal ground-engaging position adjacent said base, said frame being formed of a series of sections of substantially U-shaped cross section, hingedly connected in end-to-end relation, a collapsible piston rod of a length substantially equal to that of said frame, pivotally connected at one end to said piston, longitudinally spaced cross members in said frame supporting said rod for longitudinal reciprocation in



the frame when the latter is in extended position, said piston rod being formed of a series of sections hingedly connected in end-to-end relation, at points normally lying adjacent corresponding hinge connections of said frame, and a foot pedal pivoted on the outer end of said frame and operatively connected to the adjacent end of said rod, said frame and piston rod being simultaneously extendable from said base to a horizontal operating position.

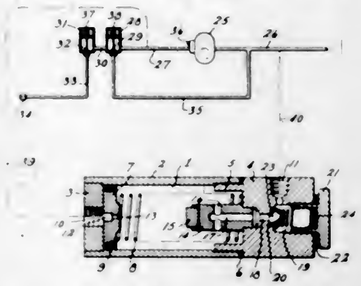
2,662,476
FUEL INJECTION APPARATUS
Louis O. French, Milwaukee, Wis.
Application June 8, 1950, Serial No. 166,923
9 Claims. (Cl. 103—41)



1. In a fuel injection apparatus having a housing and pumping means in said housing including a pump cylinder and a plunger and a coolant space in said housing connected with said pump cylinder, the combination of operating means for said plunger comprising an operating cylinder mounted above said housing, an operating piston working in said last named cylinder and operatively connected to said plunger, said operating cylinder having a coolant space, and means for continuously circulating fuel through said coolant spaces.

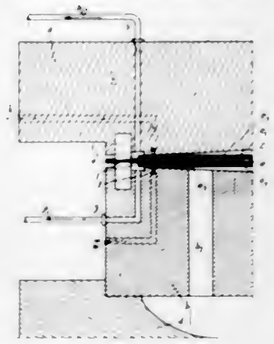
2,662,477
HYDRAULIC TIME-DELAY DEVICE FOR HIGH-PRESSURE LIQUID-FUEL-SUPPLY PUMPS
Joseph A. Logan, Hadley, and George D. Robinson, Agawam, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application June 29, 1951, Serial No. 234,268
3 Claims. (Cl. 103—42)

1. A hydraulic time-delay device for a high-pressure fuel-supply pump, comprising, a tubular barrel affording within it a cylinder having inlet and outlet passages communicating with opposite ends thereof and being otherwise closed, said outlet and inlet passages being respectively adapted for connection to the suction side and the pressure side of the pump, a piston slidable in the cylinder and over a stroke located wholly between the points at which said passages communicate with the cylinder, a spring tending to move the piston to and hold it at one end of its stroke near the connection of the inlet passage to the cylin-



der, said piston having a passage therethrough at least a portion of which has a cross sectional area relatively small in comparison to the cross sectional area of the inlet passage, a projection from the barrel at the outlet passage end of the cylinder extending inwardly into the cylinder toward the other end thereof but terminating in axially-spaced relation with such end, and a valve carried by said projection and located to close the passage in the piston when the latter is moved by liquid pressure into abutment with the valve.

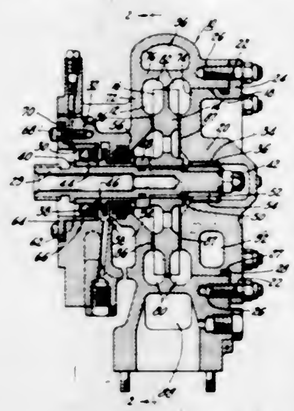
2,662,478
DIAPHRAGM PUMP AND COMPRESSOR
François Eugène Surre, Paris, France
Application January 12, 1951, Serial No. 205,637
Claims priority, application France January 31, 1950
2 Claims. (Cl. 103—44)



1. A fluid operating apparatus of the type comprising two plates defining a substantially biconical chamber, a composite metal diaphragm assembly stretched across said chamber and clamped at its periphery on the transverse plane of symmetry of said chamber in an annular sealing area thereof to divide said biconical chamber into two substantially conical half-chambers, means for the intake and discharge of a first fluid into and from one of said half-chambers and means for the intake and discharge of a second fluid into and from the other half-

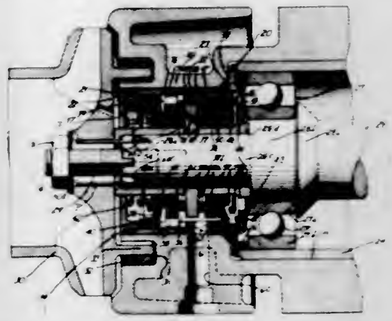
chamber, said diaphragm comprising a lamination of at least three diaphragm elements including a central and two side elements, an annular recess provided radially outwardly of the clamping and sealing area of the diaphragm assembly between the two plates, sealing means arranged between the two plates radially outward of said annular recess and through which said central diaphragm element extends, radial grooves provided in both faces of the central diaphragm element and extending into said annular recess, a duct extending from said annular recess through each of said plates, leak-detecting means connected with the outer end of each of said ducts, whereby any fluid passing through one perforation in a side diaphragm element from the respective half-chamber will be let out through said radial grooves and said annular recess and said duct to said respective leak-detecting means, in combination with an annular collecting groove provided radially in said clamping and sealing area in at least one of the plates opening into the respective half-chamber, connected with a duct to said annular goove and extending through said plate directly to the atmosphere, whereby any leak of said fluid due to a defect in said sealing area, without any perforation in the diaphragm by-passes said leak-detecting means and vents directly to the atmosphere.

2,662,479
TURBINE PUMP OR MOTOR
Charles O. Weisenbach and John J. O'Blenis, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 3, 1950, Serial No. 193,952
2 Claims. (Cl. 103—96)



1. A turbine pump or motor comprising a housing, a channel formed in the housing, an impeller wheel rotatably carried within the housing and provided with vanes extending along each side of the impeller wheel, a partition in the housing extending across said channel and dividing the same into two diametrically related portions, a bridge in said housing cooperating with said vanes for radially dividing said channel into parallel pressure chambers, a suction port in the housing, a passage from the suction port to each of said chambers, a discharge port in the housing, and a passage in the same plane as said channel connecting the discharge port to each of said chambers and terminating in the respective chambers at points equidistant downstream from said suction passages, said chambers being so constructed and arranged that pressures developed therein are radially and axially balanced.

2,662,480
SEAL
Robert Cliborn, Euclid, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application October 4, 1950, Serial No. 188,424
6 Claims. (Cl. 103—111)

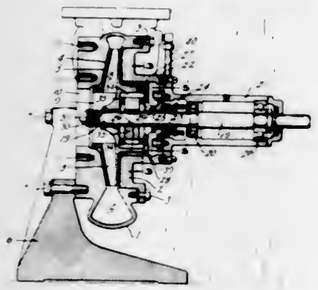


1. A cartridge unit shaft seal comprising, in combination, a pair of sleeves and a shaft ring adapted to be co-rotatably mounted in axial alignment on a rotatable shaft, said shaft ring being clamped between said sleeves, a cup-shaped casing having a generally cylindrical wall portion forming a plurality of stepped counterbores progressively increasing in diameter toward the open end of the casing arranged around said shaft in the locale of said shaft ring, a first coil spring having one end engaging the closed end of the casing and arranged to encircle one of said pair of sleeves, a first retainer ring seating the other end of said first coil spring, a first flexible diaphragm sleeve having one end snugly seated on said first retainer ring and the other end engaging said wall portion of said casing and shouldered against a first annular abutment formed between said stepped counterbores, a press ring mechanically locking said other end of said first diaphragm sleeve in said casing, a first annular seal ring encircling said one end of said first diaphragm sleeve and having an axially extending rib arranged to engage one radial face of said shaft ring under the bias of said first coil spring, a sleeve insertable in said casing and having a medial annular shoulder arranged to engage a second annular abutment formed between said stepped counterbores, said sleeve and said first annular seal ring having interlocking mating means to relieve torsional strain on said first diaphragm sleeve, a second flexible diaphragm sleeve having one end engaging said wall portion of said casing and shouldered against said insertable sleeve, a second retainer ring seating the other end of said second diaphragm sleeve, a second annular seal ring encircling said other end of said diaphragm seal and having an axially extending rib arranged to engage said shaft ring, a cap telescopically received and locked in the open end of said casing, said cap being arranged to clamp said one end of said second diaphragm sleeve against said insertable sleeve, and a second coil spring in said casing having one end engaging said cap and the other end engaging said second retainer ring to resiliently bias the rib portion of said second seal into sealing engagement with the other radial face of said shaft ring.

2,662,481
PRIMING MEANS FOR CENTRIFUGAL PUMPS

Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts

Application March 14, 1951, Serial No. 215,446
4 Claims. (Cl. 103—113)

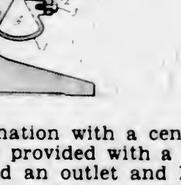


1. The combination with a centrifugal pump, having a casing provided with a chamber, having an inlet and an outlet and having an impeller mounted to rotate in such chamber, of a priming pump of the positively-acting displacement type comprising a casing element affording within it a pump chamber with an inlet connected to and in unrestricted communication with the first-named inlet and chamber and an outlet, and a piston element mounted in said second chamber for rotation relatively thereto and operable on such relative rotation to draw in fluid from the first to the second inlet and force it through the second chamber to the second outlet, one of said elements being fixed to said impeller, a drive shaft fixed to the other of said elements and passing through the impeller and free to turn relatively thereto, said second-named outlet provided with a restricted portion of an area such as to freely pass all the air and gases that the priming pump piston can draw into and force through the second-named chamber but not all the liquid that such pump piston can draw into the second-named chamber, and means for frictionally holding the impeller to its casing to hold the impeller and one of the priming pump elements against rotation during the priming operation, the priming pump chamber when filled with liquid under pressure acting as a fluid clutch to drive the impeller from the driven element of the priming pump.

2,662,482
BALL PISTON PUMP

Fritz Paulsmeier, Hamburg-Bergedorf, and Hans Warschau, Hamburg-Fuhlsbuttel, Germany

Application September 12, 1951, Serial No. 246,206
6 Claims. (Cl. 103—117)

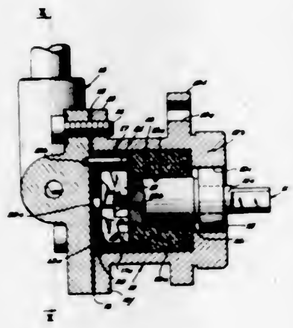


2. A pump comprising a housing having a spherical pump chamber, an inlet and an outlet conduit extending from said chamber and being disposed on a straight line, a member having a spherical surface and being rotatable in said chamber, said member having a first and a second cut-out, said cut-outs being diametrically opposed, each cut-out having two plane, spaced, and parallel side walls arranged symmetrically with respect to planes containing the center of said member, the side walls of the first cut-out being placed at a right angle to the side walls of the second cut-out, said first cut-out having a concave, cylindrically curved bottom portion, the longitudinal axis of said bottom portion coinciding with a diameter of said member which diameter is at a right angle to the planes of the side walls of said first cut-out, said first cut-out having two convexly curved bottom portions symmetrically flaring from said concave bottom portion between said side walls to the spherical surface of said member, a first operating element having two plane parallel side surfaces individually slidably engaging the plane parallel side walls of said first cut-out, said first element having an outer surface portion shaped spherically with the same diameter as the spherical surface of said member, said first element having a convexly cylindrically curved surface portion extending at a right angle to said plane parallel surfaces and slidably fitting into the concave cylindrically curved bottom portion of said first cut-out of said member, the circumferential extension of said convex surface portion being greater than the cylindrical extension of said concave bottom portion, said first element having two substantially concave surface portions symmetrically extending from said convex surface portion and individually substantially conforming with the convexly curved bottom portions of said member, the angle enclosed by said concave surface portions being smaller than the angle enclosed by said convexly curved bottom portions of the first cut-out, affording oscillation of said member relatively to said first element about the longitudinal axis of said convex bottom portion, said second cut-out having a convexly cylindrically curved central bottom portion extending between and at a right angle to the planes of the side walls of said second cut-out and around a diameter of said member, said second cut-out having two convexly curved bottom portions symmetrically flaring from said central bottom portion of the second cut-out between said side walls to the spherical surface of said member, a second operating element having two plane parallel side surfaces individually slidably engaging the plane parallel side walls of said second cut-out, said second element having an outer surface portion shaped spherically with the same diameter as the spherical surface of said member, said second element having a concave cylindrically curved surface portion having the same radius as and slidably engaging said central bottom portion of said second cut-out and extending at a right angle to the side surfaces of the second element, said second element having two concave surface portions symmetrically flaring from said concave, cylindrically curved surface portion of the second element and individually substantially conforming with the convexly curved bottom portions of said second cut-out, the angle enclosed by said flaring surface portions of said second element being smaller than the angle enclosed by said convexly curved bottom portions of said second cut-out, affording oscillation of said member relating to said second element about the longitudinal axis of the central bottom portion of the second cut-out, and individual shaft means individually connected with each of said elements and extending radially of said member.

2,662,483
ROTARY VANE PUMP

Frederick E. Smith, Cleveland Heights, and John F. Murray, Macedonia, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application September 25, 1948, Serial No. 51,172
9 Claims. (Cl. 103—136)



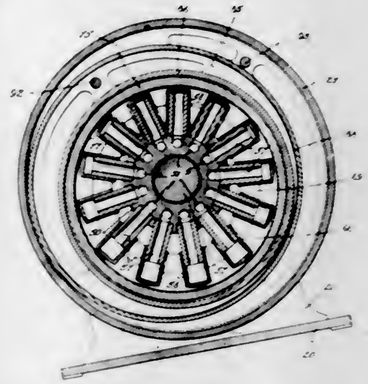
2. A rotary vane pump comprising a hollow casing defining a cylindrical chamber having a substantially planar end wall, said casing having inlet and outlet ports opening in said end wall, a liner mounted in said chamber and defining an eccentrically disposed pumping chamber adjacent to said end wall, a rotor shaft having a planar end face and having radial vane slots therein opening in both the peripheral surface and said planar end face, a bearing in said casing spaced from said chamber and journaling said rotor shaft as a cantilever for rotation in said chamber with said slotted portion disposed in said pumping chamber and said planar end face of said rotor shaft opposed and parallel to said chamber end wall, vanes radially shiftable in said vane slots and cooperating with said pumping chamber, and a thrust plate of antifriction material disposed intermediate said planar end face and said chamber end wall, said thrust plate having apertures therethrough respectively aligned with said inlet and outlet ports, said thrust plate also defining a fluid passage communicating between said outlet port and the bottom surfaces of said vanes, whereby pump outlet pressure is applied to said vanes to urge said vanes radially outwardly into engagement with said liner.

2,662,484
HYDRAULIC PUMP OR MOTOR

Robert L. Eller, Spokane, Wash.

Application December 19, 1949, Serial No. 133,802
10 Claims. (Cl. 103—161)

1. In a machine of the character described, a cylinder barrel having outwardly extended cylinders circumferentially spaced about the barrel, pistons on said cylinders, bearings on said pistons, a freely rotatable circular thrust member encircling the bearings, annular cam means encircling and rotatably mounting the thrust member, a circular housing ring encircling the cam means, means mounting the barrel for rotation with respect to the ring about the axis of said ring, the cam means being shiftable circumferentially in said ring to move the axis of said thrust member



toward and away from the axis of the cylinder barrel.

2,662,485
WELL PUMP

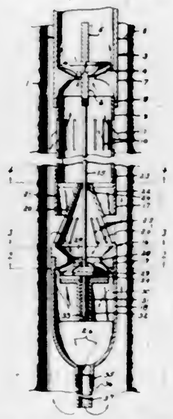
Allen H. Ilfrey, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application October 4, 1951, Serial No. 249,678
13 Claims. (Cl. 103—179)



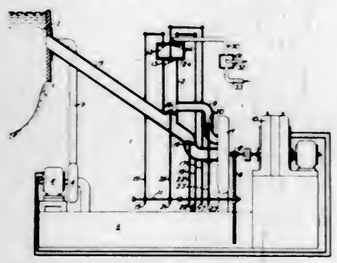
1. In a well pump adapted to be actuated by a sucker rod extending to the earth's surface, the combination of a cylindrical bore defining a working barrel, a piston member arranged in the working barrel in sliding relationship thereto and at least one valve housing defining a plurality of radial passageways communicating an exterior of the housing with said working barrel at a point above the housing, a concentric deformable sleeve mounted on and secured to said housing at one end and having a free end, said sleeve flexing to close said passageways when the piston member is in a first position and to open said passageways when the piston member is in a second position, and means attaching said piston member to said sucker rod to cause said piston member to assume said first and second positions on actuation of said sucker rod.

2,662,486
SAND AGITATOR FOR WELL PUMPS
Ben R. Hilger, Fort Stockton, Tex.
Application October 12, 1950, Serial No. 189,748
2 Claims. (Cl. 103—204)



1. An agitator device for connection to an upwardly discharging pump to prevent restriction of the flow of well fluid in a well to the pump, comprising an agitator housing having a conical intake body, radial perforations in said body for admission of fluid therein from the well, said body having an opening at its upper end, a shaft extending through said opening and said body to a point therebelow, an impeller on said shaft at said point below said body, means for rotating said impeller, a tapered surface at the lower portion of said body to direct incoming fluid to said impeller, a bowl connected with said body and forming the lower portion of said agitator housing, an outlet pipe connected to said bowl positioned adjacent the bottom of a well, whereby said impeller circulates well fluids and detritus near the bottom of the well to break up said detritus into small particles before being discharged back into the well.

2,662,487
INTERNAL-COMBUSTION PUMP
Giuseppe Di Lorenzo, Milan, Italy
Application October 6, 1949, Serial No. 119,845
Claims priority, application Italy October 13, 1948
3 Claims. (Cl. 103—249)



1. An apparatus for supplying liquid under pressure comprising a main conduit having an upper liquid receiving end and a lower discharge end, a liquid feed reservoir at an elevation above said conduit for feeding liquid to the upper end of said conduit, a control valve in said conduit adjacent the lower discharge end thereof, an upstanding container forming air chamber connected at its lower portion with the main conduit adjacent and upstream of the control valve, a by-pass valve for controlling communication between the main conduit and said air chamber, a by-pass conduit communicating at one end with the lower portion of the air chamber and having a discharge end positioned adjacent the lower end of the main conduit, a third valve in said by-pass conduit, a vessel forming a combustion chamber connected to the upper portion of the air chamber at a level below the feed reservoir, means for supplying fuel to the combustion chamber, means for exhausting spent gas from the combustion chamber, a fourth valve controlling communication between the combustion chamber and the upper portion of the air chamber, and valve actuating mechanism operable cyclically for first supplying liquid from the reservoir through the main conduit directly to the lower discharge end thereof, secondly, opening the bypass valve to admit liquid from the main conduit to the lower portion of the air chamber and compress air in the upper portion thereof, thirdly, to suddenly close the control valve and produce a water hammer effect to thereby force additional liquid from the main conduit into the air chamber, and fourthly, close the by-pass valve and open the third and fourth valves to enable combustion products under pressure in the combustion chamber to force liquid in the air chamber through the by-pass conduit to the discharge end thereof.

2,662,488
SELF-PROPELLED RAILWAY CAR WITH OPERATOR'S CAB
Joseph F. Clary, Glencoe, Ill., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 16, 1952, Serial No. 282,596
9 Claims. (Cl. 105—62)



1. Self-propelled railway car having an end wall provided with a passage opening for communication with an adjoining car, and having a longitudinal passageway leading from said opening into the interior of the car, the provision of a raised operator's cab on one side of and accessible from said passageway, said cab being spaced from said end wall and projecting above a roof portion of normal height and contour in front of it.

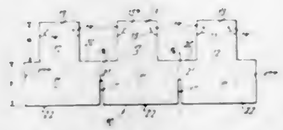
2,662,489
APPARATUS FOR CONVERTING FROZEN BEVERAGES FROM A HARD STATE INTO A LIQUID STATE
Frank Wesley Moffett, Jr., Chili, N. Y.
Application December 6, 1951, Serial No. 260,245
6 Claims. (Cl. 107—32)

1. Apparatus for converting a frozen beverage from a hard state to a liquid state while confined in a tapered container, comprising a vertically reciprocatory support on which the container is positioned, a fixed hollow plunger including a bottom and a tapered perforate side wall, and a cover separably attached to said support and including a central tapered body portion movable within said perforate wall of the plunger and a sleeve carried by said central body portion and surrounding said tapered perforate wall, said sleeve including a bottom portion engaging the



inner surface of the upper portion of said tapered container.

2,662,490
REVERSIBLE SHINGLE
Robert Patterson, Memphis, Tenn., assignor to Multi-Shingle Corporation, Memphis, Tenn., a corporation of Tennessee
Application May 25, 1951, Serial No. 228,165
8 Claims. (Cl. 108—7)



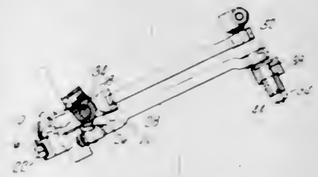
3. A shingle comprising an elongated body, tabs projecting from a longer side of said body in spaced relation to expose free marginal portions alternating with said tabs, the length of each tab being less than the width of said elongated body, a lug on the outer portion of each said tab having a free outer margin including flaps at its opposite ends defined by slits cut inwardly from the opposite margins of said tabs obliquely toward the free outer margin of said lug the length of said outer margin of said lugs each being substantially equal to the length of the exposed free marginal portion between adjacent tabs.

2,662,491
SHINGLE
Herbert Abraham, New York, N. Y., assignor to The Ruberoid Co., New York, N. Y., a corporation of New Jersey
Application November 21, 1951, Serial No. 257,553
5 Claims. (Cl. 108—7)



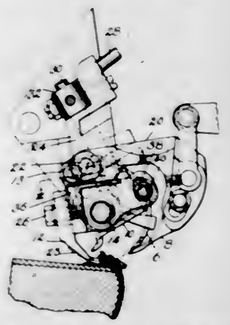
1. A self-aligning shingle of the non-interlocking type, adapted to be laid in courses with other like shingles to effect single or double-coverage, said shingle comprising a rectangular head having parallel vertical sides and horizontal top and bottom edges, and a shank extending downward from the bottom of the head and spaced inward from each side thereof a distance equal to one-half the length of the lower end or butt of the shank, said shank having upper and lower vertical side portions of equal height connected by intermediate side portions, the overall height of the shingle being equal to twice the height of the shank plus the vertical extent that the head is to be lapped by an overlying shingle for single-coverage.

2,662,492
SHOE SEWING MACHINE
Fred C. Eastman, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application January 21, 1949, Serial No. 71,990. Divided and this application May 15, 1952, Serial No. 287,891
6 Claims. (Cl. 112—35)



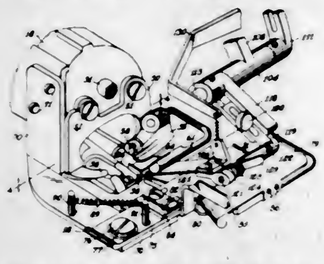
1. A shoe inseam sewing machine having a main sewing shaft and stitch forming devices actuated thereby including a curved hook needle, a looper, a thread finger, a take-up and a thread tensioning device, in combination with mechanism for actuating the thread finger to give up thread to the needle and a frictional joint in said mechanism to enable the thread finger to yield according to the requirements of each stitch.

2,662,493
SHOE INSEAM SEWING MACHINE
James P. Carter, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 27, 1951, Serial No. 258,430
4 Claims. (Cl. 112—60)



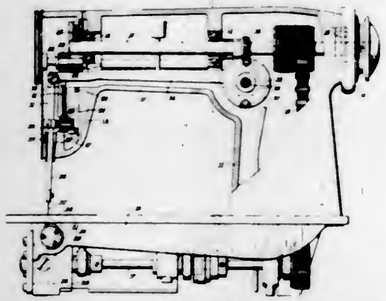
1. A shoe inseam sewing machine having a curved hook needle, a channel guide and other stitch-forming and work-engaging devices, a segment on which the needle is mounted, a carrier for the channel guide, a common supporting shaft for the needle segment and the channel guide carrier, and mechanism including a link connected to the carrier for actuating the channel guide toward and from engagement with a shoe, in combination with a block to which the channel guide is secured, rotatable about the needle shaft and adjustably connected to the channel guide carrier for angular movement relative to the carrier.

2,662,494
SHIRRING ATTACHMENT FOR SEWING MACHINES
Charles Seaman, Laurel, and Edward L. Seaman, Garden City, N. Y., assignors to S. & W. Sewing Machine Attachment Co., New York, N. Y., a partnership composed of Charles Seaman and Edward L. Seaman
Application November 22, 1949, Serial No. 128,806
12 Claims. (Cl. 112—132)



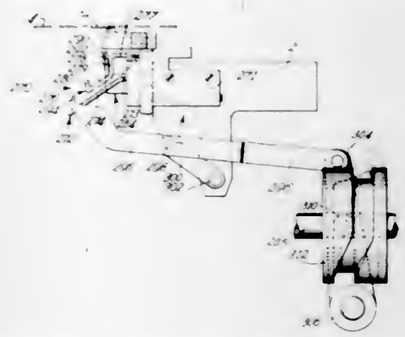
1. In combination with a sewing machine having feed means and stitch-forming means including a needle, intermittent shirring means comprising a plate positioned in advance of said needle, a shirring blade pivotally supported in a fixed location above said plate, means continuously urging said blade toward said plate, means for continuously reciprocating said blade regardless of its position, lifting means normally holding said blade away from said plate against the action of said urging means to permit feed of the material being sewn across said plate without shirring, and means under the control of the operator for rendering said lifting means ineffective.

2,662,495
NEEDLE-BAR DRIVE FOR ZIG-ZAG SEWING MACHINES
Frank Parry, Trumbull, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 5, 1950, Serial No. 188,502
9 Claims. (Cl. 112—158)



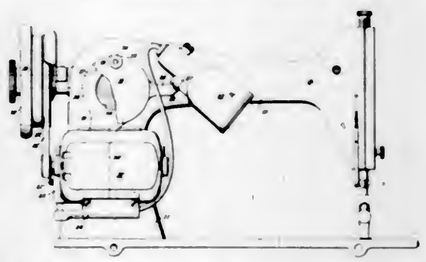
1. A sewing machine having a machine-frame including a hollow head provided with a guideway, a rotary actuating shaft journaled in said machine-frame, a vibratory frame mounted within said hollow head, operating connections with said last-named frame for imparting vibratory movements thereto, a needle-bar journaled in said vibratory frame for endwise reciprocation, a pivot-stud secured to said needle-bar, a crank-member secured to said rotary shaft and having a crank-pin provided with a portion formed with a crowned surface, and a link having one of its ends in bearing contact with the crowned surface of said crank-pin and its other end connected to said pivot-stud, said link having a projection disposed in sliding engagement with said guideway in said hollow head to confine said link against turning and having an internal bore sized to embrace snugly the opposite sides of said pivot-stud.

2,662,496
THREAD HANDLING MECHANISM
Mathias Pedersen, Valley Stream, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Original application April 10, 1948, Serial No. 20,198, now Patent No. 2,604,863, dated July 29, 1952. Divided and this application December 20, 1951, Serial No. 262,518
11 Claims. (Cl. 112—171)



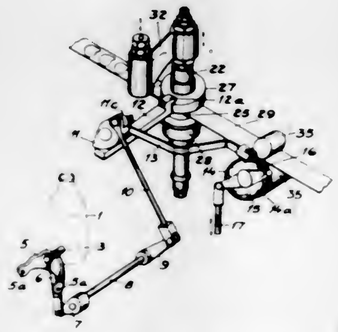
1. In a sewing machine of the type having a work support table, an upper needle bar and a lower needle bar adapted to pass a double pointed needle and a thread back and forth through work to be stitched, a thread receiving drum and a thread puller for pulling the loose end of said thread through said work and disposing it upon said drum; a thread support having a relatively wide, substantially flat thread supporting surface, a lint trap, means mounting said support and trap above said drum and adjacent said lower needle bar, and a tapered substantially vertical thread guiding surface formed on said support for guiding said loose end of thread onto said surface of said support.

2,662,497
MOTOR BRACKET
Ralph E. Johnson, Rahway, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application August 4, 1949, Serial No. 108,493
3 Claims. (Cl. 112—218)



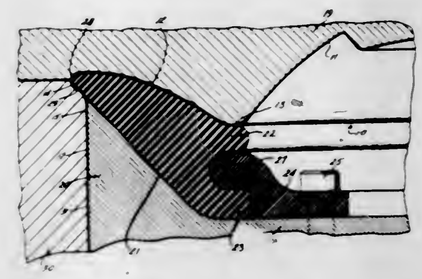
1. In a sewing machine including a frame having a plurality of spaced apertures formed in substantially mutually perpendicular walls of the frame, a raised rim bordering one of said apertures, said aperture being normally closed by a cover plate secured by a fastening screw to said frame, and a unitary bracket for supporting an electric motor from said sewing machine frame, said bracket comprising, a body portion adapted to bear against said raised rim, said body portion having a hole formed therein for the cover-plate fastening screw; an arm extending from said body portion curved to conform closely with the contour of the adjacent sewing machine frame; a clamp formed at the extremity of said arm, said clamp including opposed jaws, one of which is adapted to enter another one of said frame apertures, means associated with said clamp for moving the jaws into frame gripping relationship; and a seat formed on said bracket for the reception of an electric motor support.

2,662,498
BOTTLE CAP FORMING APPARATUS
Einar Josef Jonsson, Linkoping, Sweden, assignor to Aktiebolaget Alka Aluminiumkapslar, Linkoping, Sweden, a joint-stock company of Sweden
Application April 25, 1946, Serial No. 664,908
Claims priority, application Sweden May 3, 1945
4 Claims. (Cl. 113—1)



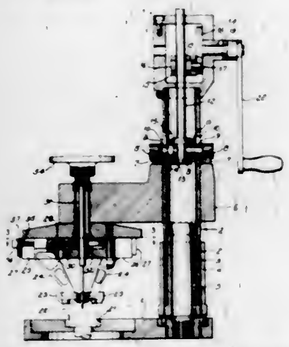
1. A device of the class described, comprising: conveyor means for individually delivering a series of containers to have a cap applied thereto; continuously operable drive means for operating said conveyor means; feeler means actuable by the presence of a container at a predetermined position with respect to said conveyor means; cap forming means comprising a continuously reciprocating punch member having a cap forming cavity formed in an end portion thereof, said punch member being connected for continuous driving with said conveyor means, and a cutting die member cooperating with and frictionally engaging said punch member for movement therewith; holding means actuable for preventing said die member from moving with said punch member; controllable strip feeding means connected for continuous driving with said conveyor means for feeding blank strip cap material to said die member; a cap forming member aligned with said punch member and shaped for engagement with said cavity for forming a cap therebetween from a blank cut from said strip by said punch and die members; and means actuated by said feeler means for controlling simultaneous operation of said holding means and said feeding means.

2,662,499
APPARATUS FOR MAKING WHEEL COVERS
George Albert Lyon, Detroit, Mich.
Application June 21, 1949, Serial No. 100,368
1 Claim. (Cl. 113—44)



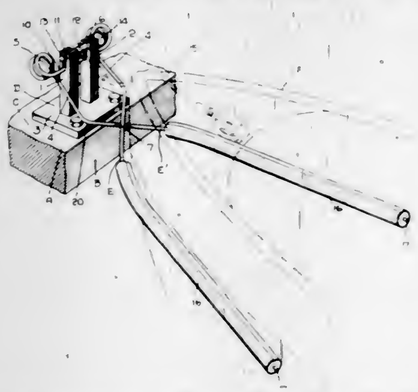
In apparatus for making wheel covers, a circular stationary member facing upwardly and having a peripheral upwardly projecting annular ridge provided with a cylindrical radially outwardly facing face and a radially and axially inwardly sloping inner face merging with an upwardly facing surface of said member at the base of said sloping inner face, a resilient annulus having the characteristics of rubber having a surface complementary to and lying against said inner face, said annulus having a body portion of substantial thickness projecting upwardly above the peak of said ridge and tapering radially inwardly and then dropping axially downwardly to a radially inwardly extending flange substantially thinner than the height of said body, an annular hold-down flange member secured to said upwardly facing member radially inwardly of said annulus flange and having a radially outwardly extending flange portion upwardly offset relative to said upwardly facing member and clampingly engaging said annulus flange, said flange portion being of bulbous cross-section opposing the radially inner side of said annulus body and with the annulus body rising to a substantial height thereabove, a pressure member reciprocably overlying said upwardly facing member having an annular portion opposing the body of said annulus and with the surface of said annular portion sloping inwardly and merging with an annular downwardly projecting rib opposing said bulbous holddown flange portion so that when said pressure member is thrust downwardly against said annulus said annulus body is squeezed to flow radially outwardly beyond the peak of said ridge while a radially inner portion of the annulus body flows radially inwardly over said bulbous holddown flange portion and under said pressure member rib, said pressure member having a portion thereof extending radially outwardly beyond said annulus and defining a downwardly opening annular forming groove of limited radially outwardly extent, and a holding member adapted to clamp against said cylindrical surface of said ridge, a cylindrical flange on a cover member resting upon said annulus, said holding member having an upwardly opening groove of limited radial extent and substantially complementary to said groove in the pressure member for receiving a portion of said cover flange pressed thereinto by displacement of the annulus as an incident to pressure applied thereagainst by said pressure member.

2,662,500
MACHINE FOR WIPING IN HARDENED INSERTS FOR ROCK DRILL BITS
Frank Fort and Eugene C. Krug, Canton, Ohio, assignors to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application July 9, 1949, Serial No. 103,868
4 Claims. (Cl. 113—59)



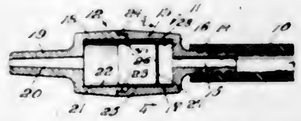
1. A machine for wiping in hardened inserts in cutting tools comprising a base for supporting the slotted body of the cutting tool in which a plurality of inserts are to be installed, a column having cam tracks therein and supported in said base, an arm engageable with each insert, means for supporting said arms and disposed on said column, means for simultaneously actuating each arm in said supporting means, means for vertically moving said supporting means; and cam follower means associated with said supporting means and engageable with said cam tracks for rotating said supporting means relative to said column as said supporting means is moved vertically.

2,662,501
SMALL BOAT RESTRAINER
John H. Bascome, Jr., Mamaroneck, N. Y.
Application January 11, 1951, Serial No. 205,566
7 Claims. (Cl. 114—230)



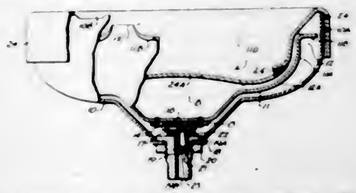
1. A restraining device to prevent the lateral deflection of a floating small boat moored bow end to, to a boat landing structure connected to a shore, comprising a support adapted to be mounted on said structure, a pair of opposed arms removably and pivotally mounted on said support for vertical angular motion, said arms being diverged so as to enable said arms to be adapted to straddle the bow and engage the forward opposite sides of the boat to be restrained, and spring means associated with each said arm tending to resist its lateral deflection.

2,662,502
FLOW INDICATOR FOR HOSE
Ralph R. Turner, Warwick, R. I.
Application November 12, 1952, Serial No. 319,999
5 Claims. (Cl. 116—117)



1. A flow indicator for a hose comprising a tubular body, a member slidable within said body and having a transverse portion to be engaged and moved by the movement of fluid through the hose and provided with a passage for the flow of fluid, said body having a transparent portion for the observance of said member in at least one position of its movement and means to retain said member in at least one position in said tubular body, said member remaining in said position after fluid has passed through said body.

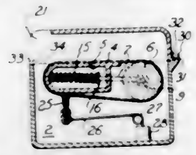
2,662,503
AUTOMATIC WATERING FOUNTAIN
Earl B. Johnson, Freehold, N. J.
Application May 11, 1948, Serial No. 26,277
32 Claims. (Cl. 119—80)



1. A fountain comprising an upwardly open container and means to supply water therein, a reservoir disposed within and spaced from said container to provide water space between said reservoir and container, said water space being relatively larger for greater volume of water within its upper and outer portion than within its lower portion thereby providing greater buoyancy to said reservoir, said water supply means being controlled by the up and down movement of said reservoir, a cover over said container having a central portion extending downward within the interior of said reservoir and of said container and providing an open water space, inlet means for water to flow from within said reservoir into said open water space, the bottom of said central portion of said cover being formed to curve upwardly and remain in an upper position for shallow water within said open water space and to curve downwardly and remain in a lower position for deep water within said open water space.

2,662,504
PENCIL SHARPENER
Otto Schneider, Cincinnati, Ohio
Application July 3, 1952, Serial No. 297,068
4 Claims. (Cl. 120—89)

1. A pencil sharpener comprising a housing having a box-like bottom and a cover, the housing having an opening in one side thereof for accommodating the end of a pencil, a roller in the housing adjacent a sidewall opposite said opening, a mandrel mounted in said housing parallel to said roller and disposed adjacent to the sidewall containing said opening, means for rotatably supporting the roller from the mandrel, and an endless belt having an abrasive coating thereon, said belt being trained over said mandrel and roller, the mandrel serving as a backing member for the belt when a pencil inserted through said opening is being sharpened on the belt.

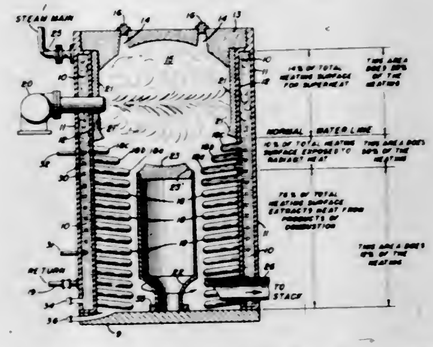


2,662,505
HYDRAULIC IMPACT TOOL
William H. Cline, Jr., Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application June 16, 1951, Serial No. 231,988
5 Claims. (Cl. 121—27)



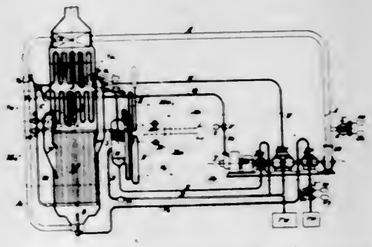
1. In a fluid actuated impact tool the combination comprising, a housing having a passage therethrough, there being spaced inlet and outlet for the admission and exhaust of actuating fluid to and from the housing, a reciprocable hammer within the housing intermediate the inlet and outlet, means for moving the hammer upwardly after an impact has been exerted thereby, a valve sleeve slidable axially of the housing and in sealing engagement therewith, said sleeve being engageable with the hammer to close the passage through the sleeve so that fluid pumped into the housing above the sleeve forces the sleeve and hammer downwardly, means for terminating the downward movement of the sleeve, whereby the seal between the sleeve and hammer is broken, means including an annular piston having a portion fitting telescopically within the sleeve so that the upper surface of the sleeve is isolated from fluid pressure applied to the interior of the sleeve, and additional means for subjecting said upper surface to the fluid pressure exteriorly of the housing so that the valve sleeve moves upwardly under differential pressures exerted thereon after said seal is broken.

2,662,506
STEAM GENERATOR
Clyde H. Carley, North Adams, Mass.
Application March 25, 1952, Serial No. 278,450
13 Claims. (Cl. 122—173)



1. A boiler of the type described comprising a vertical water chamber in the form of a substantially-cylindrical core having a length substantially equal to the boiler height, a substantially spherical combustion chamber centrally disposed at the top of the boiler, a plurality of tubes extending radially from the water chamber each tube having an open end communicating with the water chamber and a closed end directed toward the axis of the water chamber, a stack outlet disposed at the bottom of the boiler, a feed water inlet communicating with the water chamber at the bottom thereof, a tubular baffle extending along the axis of the water chamber and a reflecting member of refractory material carried by the baffle said reflecting member having a concave upper surface defining the lower portion of the combustion chamber.

2,662,507
PROCESS AND APPARATUS FOR THE REGULATION OF STEAM BOILERS
Jean Loumiet et Lavigne, Itabo, Cuba
Application June 24, 1943, Serial No. 492,036
29 Claims. (Cl. 122—448)



1. A process for regulating the operation of a steam boiler of the drumless forced flow type having a vaporizer traversed by the water being operated on in a single pass, a superheater, a separator between the vaporizer and the superheater for the water contained in the steam only, and a single drive motor for operating all of the feeding mechanisms to the boiler including the boiler feed pump, which process comprises controlling said motor automatically in accordance with the pressure variations in the boiler, discharging from the separator and extracting from the system the separated water at a rate pro-

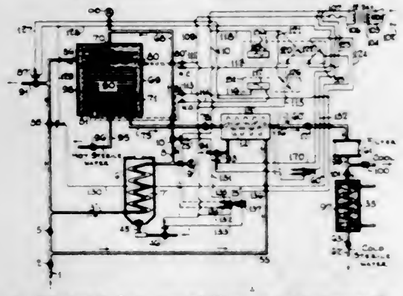
portional to the water discharge rate from the outlet of the water feed pump and at a rate corresponding substantially to the amount of liquid water it is desired for the saturated steam to contain at the inlet of the separator, controlling the proportion between the amount of the feeding water and the amount of the feeding elements of combustion automatically in accordance with the increase or decrease of water in the separator, to adapt the operation of the feeding mechanisms to the variable efficiency of the boiler, deflecting directly towards the entrance of the superheater an adequate portion of the combustion heating gases from the vaporizer before they have traversed half of the heating surface of the vaporizer, and regulating automatically the proportion of the deflected gases in accordance with the temperature of the superheated steam in order to maintain said temperature constant, while the remaining portion of the combustion heating gases in the normal flow traverses the balance of the vaporizer heating surface before entering the superheater.

2,662,508

METHOD AND APPARATUS FOR PROVIDING A CONTINUOUS SUPPLY OF HEAT STERILIZED WATER

Peter J. Gaylor, Union, N. J.

Application March 15, 1947, Serial No. 734,902
8 Claims. (Cl. 122—448)



8. A process for providing an automatic continuous supply of heat-sterilized water from a heated coil having an inlet, an outlet and a normally-closed valve on said outlet, comprising supplying a heating medium from a remotely controlled fuel supply means for heating said heated coil, feeding water into said heated coil under pressure, heating said water to sterilization temperature, opening said valve only when the water in said coil reaches sterilization temperature, closing said valve when the temperature falls below sterilization temperature, transferring the discharged sterilized water into a sterile storage system having a high and low level control means, and closing and opening said remotely controlled fuel supply means by said high and low level controls.

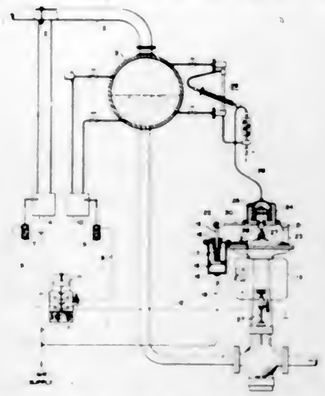
2,662,509

CONTROL APPARATUS

Frank H. Fellows, Cleveland, and Harvard H. Gorrie, Cleveland Heights, Ohio, assignors to Bailey Meter Company, a corporation of Delaware

Application February 18, 1950, Serial No. 145,032
10 Claims. (Cl. 122—451)

2. A control system for regulating the supply of an agent to a condition, including in combination, means adjustable to regulate the rate of the agent supply, a primary source of fluid pressure to be varied, a first control means sensitive only to the variation of said fluid pressure, means responsive to a first operating variable of the condition to vary said primary fluid pressure, said first control means operable to position the adjustable means regulating the agent supply, a secondary source of fluid pressure to be varied, a second



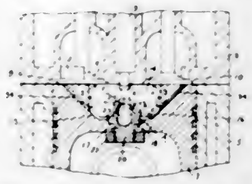
control means sensitive to the variation of the secondary fluid pressure, a second means responsive to a second operating variable of the condition to vary said secondary fluid pressure, and means operative upon the failure of the primary source of fluid pressure to actuate the adjustable means for controlling the supply of the agent through the second control means only.

2,662,510

COMPRESSION IGNITION INTERNAL-COMBUSTION ENGINE

Louis O. French, Milwaukee, Wis.

Application December 18, 1950, Serial No. 201,362
3 Claims. (Cl. 123—32)



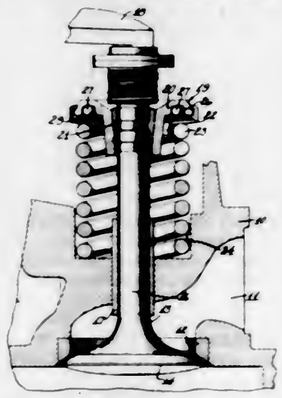
1. In a compression ignition internal combustion engine of the type having its combustion chamber formed as an open toroidal chamber substantially wholly within the top of the piston into which fuel is injected near the end of the compression stroke, the air supplied to the engine cylinder having rotary swirl imparted to it and the chamber being spaced from the sides of the cylinder to provide a pronounced squish action to augment the rotary swirl as the piston during compression closely approaches the cylinder head, said chamber having a midportion measured vertically of the height of said chamber, the air in said chamber during compression having a substantially rotary movement about said midportion of said chamber substantially coinciding with a horizontal plane half way between the top surface of the piston and the bottom of the combustion chamber and rotary spiral movements in planes at substantially right angles to said horizontal plane, from said midportion toward the top and bottom portion of said chamber, that improvement which comprises forming the central portion of the bottom of said chamber as a conical hot tube projection extending toward but not beyond the above defined midportion of said chamber and having a lengthwise extending axially alined tubular cavity which discharges into said midportion of the chamber in which the air has a substantially rotary movement.

2,662,511

AUTOMATIC MECHANICAL CLEARANCE REGULATOR

Forrest W. Sward, Euclid, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application April 10, 1951, Serial No. 220,215
10 Claims. (Cl. 123—90)



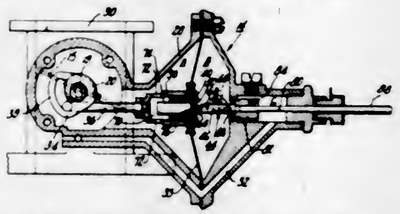
8. In a poppet valve assembly, a poppet valve having a stem and a valve head adapted to be seated in an engine part, means to rotate said valve in response to axial loading thereof, actuating means to load said stem of said valve periodically, and a length-adjusting means between said stem and said actuating means comprising rotation responsive length decreasing elements including a threaded adjusting screw connected to the end of said stem, and a complementary threaded adjusting nut engaging said screw, said nut having a flat surface slidably engaging said actuating means, said nut and said screw being pre-loaded torsionally to increase in effective length when said valve is unloaded.

2,662,512

GOVERNOR

David J. Schaffer, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application May 9, 1951, Serial No. 225,434
7 Claims. (Cl. 123—103)



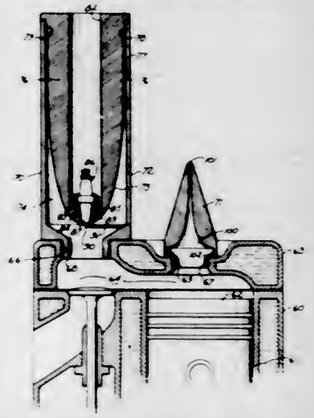
1. In a governor for an engine having an induction passage and a valve in said induction passage for controlling the air flow therethrough, a housing having a chamber therein, a diaphragm forming one wall of said chamber, a linkage for connecting said diaphragm to said valve, a means actuated in response to an engine operating condition, and a mechanical means operatively connecting said last mentioned means through said diaphragm to said linkage to cause an initial closing movement of said valve before said diaphragm becomes fully operative.

2,662,513

ACOUSTIC MEANS AND METHOD FOR SUPPRESSING DETONATION IN INTERNAL-COMBUSTION ENGINES

Albert G. Bodine, Jr., Van Nuys, Calif.

Application May 12, 1950, Serial No. 161,695
5 Claims. (Cl. 123—191)



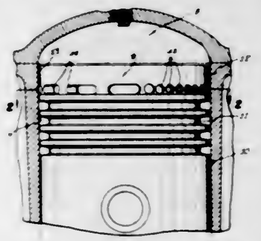
1. In an internal combustion engine, an internal combustion chamber having wall means communicating therewith defining a flared acoustic attenuator horn whose large end opens to the combustion chamber and whose throat opens to an attenuation space of large volume, said horn having frequency response for a characteristic acoustic pressure cycle pattern generated in said combustion chamber by detonation.

2,662,514

DETONATION SUPPRESSION PISTON FOR INTERNAL-COMBUSTION ENGINES

Albert G. Bodine, Jr., Van Nuys, Calif.

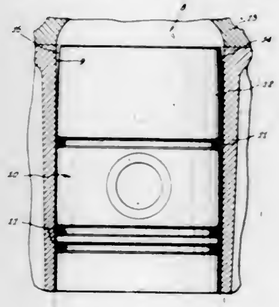
Application February 25, 1952, Serial No. 273,275
8 Claims. (Cl. 123—191)



1. A piston for an internal combustion engine having a cylinder and a combustion chamber, said piston having a cylindrical side wall formed with a setback surface at its top end, so arranged as to afford a narrow clearance space between said surface and the confronting surface of the cylinder of an engine in which said piston is

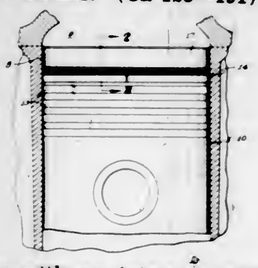
installed, and there being an acoustic cavity sunk into the side of the piston and arranged in communication with said clearance space, said cavity functioning as the acoustic cavity of a Helmholtz resonator, and said clearance space functioning as the neck of said resonator through which sound waves from the combustion chamber may reach said cavity, said cavity being frequency responsive to a detonation sound wave in the combustion chamber.

2,662,515
DETONATION SUPPRESSION PISTON FOR INTERNAL-COMBUSTION ENGINES
Albert G. Bodine, Jr., Van Nuys, Calif.
Application February 25, 1952, Serial No. 273,276
9 Claims. (Cl. 123—191)



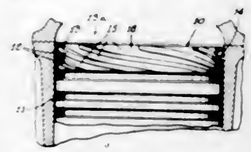
1. For use with an internal combustion engine having a combustion chamber and cylinder opening into said chamber, a piston adapted for reciprocation in said cylinder, the upper end portion of said piston having an outer side surface spaced from the opposed surface of the cylinder, so as to furnish a downwardly extending sound wave passage, and an acoustic attenuation means for the detonation wave frequencies at the lower region of said surface.

2,662,516
PISTON FOR INTERNAL-COMBUSTION ENGINES HAVING ACOUSTIC DETONATION SUPPRESSION MEANS
Albert G. Bodine, Jr., Van Nuys, Calif.
Application February 29, 1952, Serial No. 274,083
5 Claims. (Cl. 123—191)



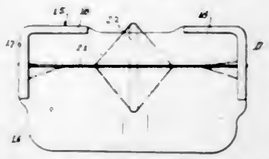
1. For use with an internal combustion engine having a combustion chamber and a cylinder opening into said chamber, a piston adapted for reciprocation in said cylinder, said piston having an upper end portion formed with a slightly set back outer side surface, so as to furnish a narrow sound wave passage between the upper end portion of the piston and the opposed wall of the cylinder wall, there being an annular groove around said piston communicating with said sound wave passage, and a piston encircling ring in said groove, said ring being adapted for sliding engagement with the cylinder wall, said groove being deeper than said ring, so as to afford an annular acoustic cavity behind said ring, and said ring having narrow sound wave passages therethrough to provide restricted sound wave communication between said sound wave passage and said annular acoustic groove cavity.

2,662,517
PISTON FOR INTERNAL-COMBUSTION ENGINES HAVING ACOUSTIC DETONATION SUPPRESSION MEANS
Albert G. Bodine, Jr., Van Nuys, Calif.
Application March 1, 1952, Serial No. 274,421
9 Claims. (Cl. 123—191)



1 For use with an internal combustion engine having a cylinder opening into a combustion chamber, a piston adapted for reciprocation in said cylinder, said piston having at its upper end a slightly set back surface furnishing a clearance space with the opposed wall of the cylinder, and having sunk into said surface a groove, one side of which opens into said clearance space, the upper end of said groove opening through the top of the piston to the combustion chamber, and the cross-sectional area of said groove converging downwardly in the manner of a flared acoustic horn.

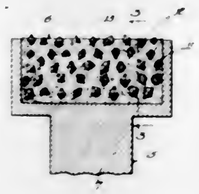
2,662,518
DISK OR RING PROJECTOR
Alfred Luthi, Philadelphia, Pa.
Application February 27, 1952, Serial No. 273,576
3 Claims. (Cl. 124—17)



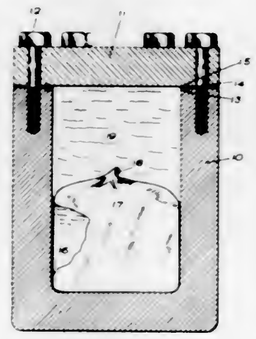
1. A game apparatus comprising a missile, a projector to propel said missile along a surface, said projector consisting of a base, a pair of spaced uprights on said base and each having a pair of spaced substantially horizontal slots with their open ends at the rear of said uprights, and an endless rubber band inserted in both slots of both uprights to provide two strands extending across the space between the uprights, said strands to be twisted together on both sides of the missile with the latter between them.

2,662,519
DIAMOND DRESSING TOOL
Leopold H. Metzger, Chicago, Ill., assignor to Super-Cut, Inc., Chicago, Ill.
Application March 14, 1951, Serial No. 215,497
2 Claims. (Cl. 125—39)

1. As a new article of manufacture, a tool designed to dress and true a standard or conventional grinding wheel for precision grinding and comprising a supporting member and a block-like cutting part mounted on the member, having a substantially flat dressing surface for tangential contact with the wheel, and consisting of a solid matrix formed of heat-joined comminuted metal and having a hardness of no lower than 65 on a Rockwell "B" scale and no more than 62 on a Rockwell "C" scale, and a plurality of naturally formed solid diamonds distributed heterogeneously but uniformly throughout the entire matrix, said diamonds being of no greater size than 70 per carat and no smaller size than 230 per carat and being distributed throughout the matrix so that there are fewer of them when their size is large and more of them when their size is small and also so that when all of the diamonds are 70 per carat there are no less than 24 per square inch in the dressing surface and when all of the diamonds are 230 per carat there are no more than 300 per square inch in said dressing surface.



2,662,520
PRESERVATION AND STORAGE OF BIOLOGICAL MATERIALS
Howard O. McMahon, Lexington, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts
Application February 6, 1951, Serial No. 209,547
13 Claims. (Cl. 128—1)



1. Method of preserving and storing a biological material, which comprises applying to said material a superatmospheric pressure, and cooling said material, while under pressure, to a point below the normal freezing point thereof at atmospheric pressure, and maintaining said material, during the cooling step and thereafter while it remains at a temperature below said freezing point, under sufficient pressure to prevent the formation of ice I.

2,662,521
AIR TREATED AND CONTROLLED MOBILE THERAPEUTIC CUBICLE
Gordon Armstrong and George Kulcher, Cleveland, Ohio, assignors to The Gordon Armstrong Company, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 5, 1951, Serial No. 219,478
14 Claims. (Cl. 128—1)



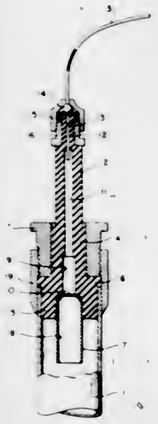
1. A controlled forced air circulating and treating therapeutic mobile cubile comprising a treating chamber having inlet and outlet passages at opposite ends thereof through which air is circulated from a conduit directly connected to each of the inlet and outlet passages, an air impelling means for circulating air through the treating chamber and said conduit from the inlet to outlet passage, a humidifier within the inlet passage, a heater for the humidifier and for the air as it passes through the inlet passage to the treating chamber, a germicidal lamp disposed in said conduit between the inlet and outlet passages to which the air is exposed in passing to the treating chamber, adjustable means for regulating the pressure of the air within the treating chamber.

2,662,522
CHEST BINDER
Caroline A. Muller, Minneapolis, Minn.
Application April 23, 1949, Serial No. 89,259
4 Claims. (Cl. 128—155)



1. A chest binder having in combination, two binding strips, one forming an outer strip of strong fabric material and of appreciable width adapted to extend over the breasts of the wearer and a short distance above and below said breasts, fastening and tightening means at the ends of said outer strip respectively, the other strip forming an inner strip of strong fabric material and having two parts with their adjacent ends positively and permanently secured to the inner side of said outer strip adjacent and at each side of the center thereof respectively, so as to be held in definite positive relation to said outer strip, said parts having free ends with fastening and tightening means at said ends respectively, said inner strip being of much less width than said outer strip, being disposed at the lower portion of said outer strip and being overlaid by said outer strip when the device is in use, said inner strip extending under the breasts of the wearer when said device is in use so that said breasts overlie the same.

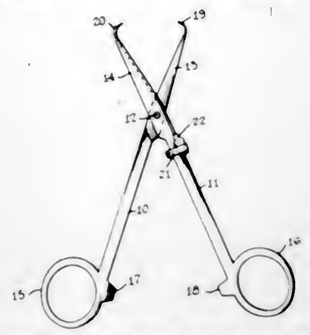
2,662,523
SYRINGE FOR THE APPLICATION OF NASCENT OXYGEN, ESPECIALLY FOR DENTAL PURPOSES
Mario Badan, Rio de Janeiro, Brazil
Application August 24, 1950, Serial No. 181,142
Claims priority, application Brazil
January 24, 1950
2 Claims. (Cl. 128—184)



1. A dental device for the treatment of root canals with nascent oxygen, comprising a cylindrical receptacle for holding a solution for producing nascent oxygen when contacted with a catalyst, said receptacle being closed at one end, a member having one end connected to the other end of the receptacle by an air-tight readily removable connection and having a passageway extending axially therethrough, the end of said member connected to the receptacle including a portion extending into the receptacle, means for catalyzing the production of nascent oxygen comprising a hollow cylinder of silver carried by the end portion of said member extending into the receptacle, said silver cylinder opening into said receptacle and arranged with its interior communicating with the passageway through said member, the end of said member remote from the receptacle including a bearing surface, a tube for delivering nascent oxygen into a root canal having an open delivery end and a mounting portion, the latter of which is mounted on said bearing surface at said remote end of said member, said delivery tube communicating with the passageway in said member, and means for securing the mounting portion of said delivery tube to said bearing surface in air-tight condition with the passageway in the delivery tube communicating with the passageway in said member.

2,662,524
TENACULAR NEEDLE
Archibald P. Hudgins, Charleston, W. Va.
Application August 7, 1952, Serial No. 303,191
3 Claims. (Cl. 128—215)

1. A device of the character described comprising a pair of handles pivoted together, a jaw formed integrally with each of said handles, a clamp carried by one of said handles adjacent the



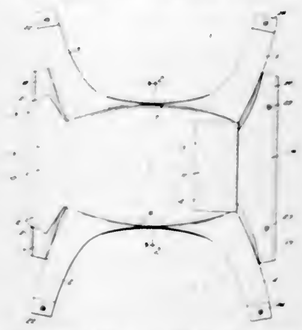
pivotal point, and a hypodermic needle mounted in said clamp and directed toward said jaws.

2,662,525
SANITARY COMFORT FOR COLOSTOMY POUCHES
Anna D. Priebe, Kansas City, Mo.
Application July 18, 1952, Serial No. 299,656
1 Claim. (Cl. 128—283)



A colostomy pouch supported by a metal frame and a belt comprising, a comfort, said comfort form fitted to the greater portion of the pouch when empty, strap members, snap fasteners on said strap members, said straps being detachably attached to the metal frame, and said comfort being expandable with the pouch to greater sizes when being filled.

2,662,526
DIAPER HOLDER AND THE LIKE
Mable M. Sanford, San Francisco, Calif.
Application January 19, 1953, Serial No. 331,928
8 Claims. (Cl. 128—287)



1. A diaper holder comprising a main body of moisture proof sheet material having an elongated central portion and opposite end portions extending oppositely outwardly from the opposite ends of said central portion and relative

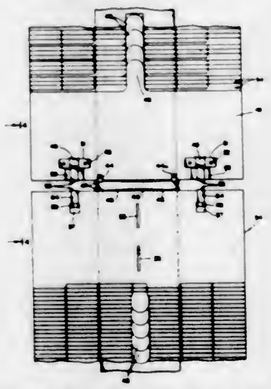
to the longitudinal axis of said central portion, flaps at the ends of said central portion in longitudinal extension thereof and foldable toward each other over one side of said central portion for holding diaper material on said central portion, the end portions at each end of said central portion being foldable toward each other and over the flap adjacent thereto when said flap is folded over said one side of said central portion, the marginal portions of said central portion that extend longitudinally of the latter being connected with said end portions for movement therewith when said end portions are folded toward each other for holding such diaper material against shifting laterally relative to said axis.

2,662,527
SANITARY PAD
Willard Grant Jacks, Lynwood, Calif.
Application December 18, 1952, Serial No. 326,699
3 Claims. (Cl. 128—290)



1. An absorbent pad for feminine hygiene, comprising a main body member of absorbent material of a length to extend only from a point between the rectum and the frenulum to the anterior part of the vestibule, and a second member of absorbent material secured on one face of said main member and being narrower and shorter than said first member and being so located on the first member and of such dimensions as to fit between the labia against the vaginal orifice, said first member being wider at its ends than at its center and said second member having a slantingly undercut front end.

2,662,528
RECORD KEEPING MACHINE AND CARD UNITS
Joseph L. Herzog, New York, N. Y.; Eleanor G. Herzog, executrix of said Joseph L. Herzog, deceased, assignor to Robert S. Herzog, New York, N. Y., and Michael S. Herzog, Denver, Colo.
Application October 24, 1951, Serial No. 252,943
9 Claims. (Cl. 129—2)



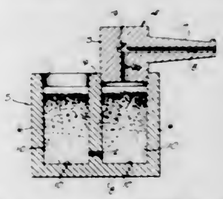
1. In record keeping apparatus an endless conveyor, means for shifting said conveyor, a plurality of record keeping units carried by said conveyor, each of said units comprising an element pivotally attached to said conveyor and freely slidable relative thereto and a plurality of record retaining members, said element and said members having aligned openings adjacent their lower edges, and tubular means having a portion passing through said openings for retaining said element and members of a unit in assembled relation, said tubular members each having a plurality of spaced flat surfaces arranged relative to their associated unit and to said conveyor to have flat surface engagement with corresponding surfaces on similar tubular members of adjacent card units to retain the same in predetermined spaced relation.

2,662,529
STRAW CONVEYER FOR GRAIN COMBINES
Dan P. Keith, Lubbock, Tex.
Application November 20, 1950, Serial No. 196,677
1 Claim. (Cl. 130—26)



A straw walker for grain combines comprising a channel member mounted longitudinally in the combine for oscillating movement with longitudinal side edges uppermost and formed therein with longitudinally spaced teeth, an imperforate grain deflecting member of inverted V-shape in cross-section extending longitudinally in said channel member and sloping downwardly oppositely from its longitudinal center to the base of the teeth in said side edges to deflect grain to the space between said teeth for discharge out of said channel member, and cross cleats on said deflecting member staggered longitudinally thereof on opposite sides of the longitudinal center of the deflecting member and terminating at said center in upstanding end lugs, said cleats and lugs being adapted to catch and walk the straw uniformly under oscillating movement of said channel member.

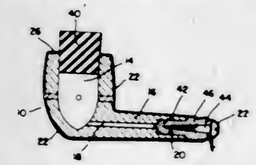
2,662,530
SMOKING PIPE
Ronald C. Lockard, Freeport, Pa.
Application April 16, 1948, Serial No. 21,432
1 Claim. (Cl. 131—180)



A smoking pipe comprising a body including a flat bottom, parallel spaced upstanding plane sides, and upstanding semi-cylindrical ends facing each other and connecting the plane sides together, a vertically disposed wall fixedly positioned within said body and extending transversely between said plane sides substantially centrally of the latter and subdividing said body into two tobacco containing bowls each with an

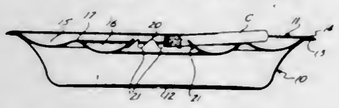
open top, the open top of each bowl being flared, said wall being provided with a smoke passage extending horizontally therethrough adjacent to and spaced above said bottom and having one end in communication with one of said bowls and having the other end in communication with the other of said bowls, and a stem comprising a body having a tapered lower end portion arranged for vertical insertion in the open top of one of said bowls, a bit projecting horizontally from said stem, and passage means extending through said bit and said body and opening above the tobacco in said one bowl whereby smoking suction applied to said bit will draw smoke from ignited tobacco in said other bowl through said first mentioned passage in said wall into said one bowl and upwardly through the tobacco in said one bowl to said passage means in said bit, the open ends of said bowls being of the same flaring whereby said stem body may be inserted in either bowl.

2,662,531
METAL PLATED SMOKING PIPE
Elwood R. Rinehart, Seattle, Wash.
Application April 6, 1951, Serial No. 219,689
3 Claims. (Cl. 131—194)



2. A smoking pipe, comprising: a self-supporting wooden bowl; a metal coating on said bowl; said coating having a substantially uniform thickness and being very thin, whereby said coating follows the configuration of said bowl and presents an outer surface with substantially the same configuration; a plurality of metal pin-like inserts, each extending from the portion of the fire chamber of maximum temperatures to the adjacent portion of said metal coating; whereby heat, reaching the outer surface of said bowl at any point, will be dissipated by conduction to other portions of said metal coating; and whereby temperatures in said portion of said fire chamber of maximum temperatures will be lessened by conduction through each metal insert to said adjacent portion of said metal coating and thence conducted to other portions of said metal coating.

2,662,532
ASH TRAY
George Albert Lyon, Detroit, Mich.
Application September 9, 1948, Serial No. 48,470
2 Claims. (Cl. 131—242)



1. In an ash tray, a dished tray member having an annular rib-like downturned margin adapted to be nested upon the upper edge of a receptacle, a central portion of the tray member having an aperture, the portion of the tray member defining the aperture being turned upwardly and of serpentine formation defining a series of upstanding fingers, the portion between the fingers and said down-turned margin of the tray member comprising a pair of annular concentric generally corrugation-like depressions of different diameters and one inside the other, the depressions being divided by an upstanding intermediate annular rib, said rib being spaced from said fingers a substantial distance to support an intermediate portion of a cigarette with the lighted end overhanging the aperture and engaged between a pair of the fingers and with the other end of the cigarette overhanging the outermost of the depressions, said intermediate rib radially outwardly of the respective notches, being higher than the notches between said fingers and the rib-like margin being higher than said intermediate rib.

2,662,533
BOBBY PIN SPREADER AND HOLDER
Alma Swanson, Inglewood, and Arthur F. Heffernan, Hawthorne, Calif.
Application December 12, 1952, Serial No. 325,534
8 Claims. (Cl. 132—1)



8. A bobby pin spreader and holder comprising a saddle consisting of a lower plate, and an upper plate superimposed upon said lower plate, a finger mounting means carried by and extending downwardly from said lower plate, an elongated bobby pin guide consisting of a forward extension of said lower plate, said guide being transversely downwardly arcuate and also being downwardly arcuate in relation to its length, and a bobby pin spreader arm consisting of a forward extension of said upper plate which terminates slightly beyond and superjacent to the outer end of said elongated guide, there being an aperture through the inner end portion of said spreader arm affording a passage to admit from above the longer arm of a bobby pin till its extremity is contacted with the guide, and there being a notch across the outer end of said spreader arm to receive the outer end portion of the shorter arm of the bobby pin, thus to maintain said pin in a spread out condition.

2,662,534
FINGER REST FOR APPLICATION OF NAIL POLISH
Charles Swartz, King City, Calif.
Application March 3, 1950, Serial No. 147,517
4 Claims. (Cl. 132—73)



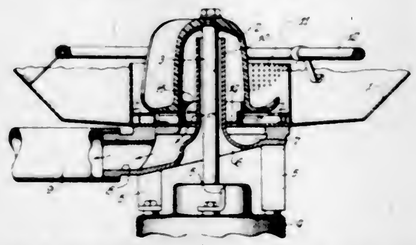
1. A finger rest for use in the application of finger nail polish and the like, consisting of a body structure having a top surface and side surfaces tapering outwardly and downwardly therefrom to a broader base, said body structure including end surfaces extending downwardly from the ends of said top surface and defining the total length of said finger rest, a plurality of not more than three spaced-apart concave horizontal recesses extending transversely across said top surface, said recesses being less in depth than the average thickness of a finger, and the bottom of said recesses being spaced from the base a distance from about one to three times said finger thickness, said recesses being adapted to support the forefinger, middle finger and the third finger of a hand with the thumb and the little finger resting on a finger rest supporting surface and with the little finger adjacent one of said end surfaces of said body structure.

2,662,535
TOOTHBRUSH AND TOOTHPASTE KIT
Andrew J. Alboreo and Melvin W. Pratt, Akron, Ohio
Application October 28, 1950, Serial No. 192,789
9 Claims. (Cl. 132—84)



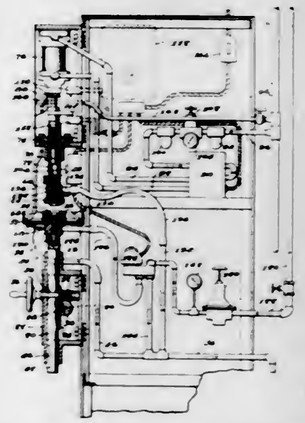
1. A receptacle for isolated storing of a toothbrush and toothpaste comprising a tube, a partition in the tube defining separate compartments therein, said tube having an end opening in one compartmet of a size adapted to receive a toothbrush, a closure plug for said end opening, said tube having an end opening in the other compartment of restricted size relative to the end opening in said one compartment, and the material of said tube comprising, at least in the portion defining said other compartment, polyethylene.

2,662,536
DRAINAGE CONTROL SYSTEM
Leonard J. Martiniak, Chicago, and John W. Dusenberry, Melrose Park, Ill., assignors to General Electric Company, a corporation of New York
Application November 28, 1952, Serial No. 323,032
10 Claims. (Cl. 134—56)



1. In a dishwashing machine of the type having a tub for containing articles to be washed in a quantity of liquid and a motor driven impeller disposed adjacent a wall of said tub for rotation about a fixed axis to distribute said liquid throughout said tub; the improvement in means for controlling drainage from said tub, comprising a drainage opening in said tub wall about said impeller axis, a cylindrical valve body associated with said impeller for rotation therewith, said valve body extending from said impeller to encircle said drainage opening in close proximity to said tub wall, said valve body having about its circumference a plurality of openings disposed immediately adjacent said tub wall, and a flapper valve pivotally carried by said valve body interiorly thereof for cooperation with each said valve body opening, the respective flapper valves being biased away from their associated valve openings to permit flow therethrough when said impeller is at rest but responsive to centrifugal forces engendered by rotation of said impeller to move against said valve body to close said openings.

2,662,537
DIE QUENCHING APPARATUS
Thomas J. Doyle, Milton, Mass., assignor to Tubular Rivet and Stud Company, Quincy, Mass., a corporation of Massachusetts
Application April 9, 1947, Serial No. 740,421
9 Claims. (Cl. 134—58)

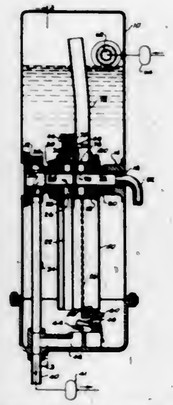


1. Die quenching apparatus comprising a pair of die engaging nozzles mounted to be relatively moved into clamping engagement with opposed surfaces of a die having an aperture therethrough and in communication with the die aperture, means for effecting a flow of the quenching medium through the nozzles and the die, said nozzles being formed to confine the quenching medium within the outer edges of said opposed die surfaces, and automatically operated and selectively adjustable control means for controlling the flow of the quenching medium having provision for automatically initiating the flow immediately upon water-tight clamping engagement of the nozzles with the die and for thereafter automatically discontinuing the flow after a predetermined time has elapsed and immediately prior to disengagement of the nozzles with the die whereby to prevent application of the quenching medium to other than the selected portions of the die.

2,662,538
TANK CONSTRUCTION
Michael Cervino and Ferdinand Sollinger, Paterson, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application October 30, 1951, Serial No. 253,866
13 Claims. (Cl. 137—45)

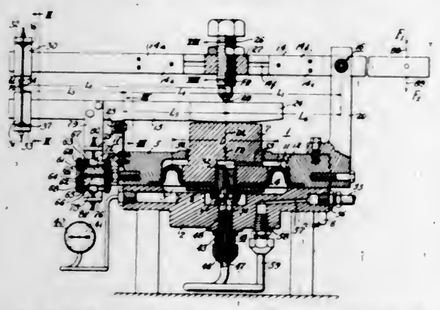
1. In combination with a tiltable tank for a liquid; a member mounted in said tank for swinging movement about an axis extending across an intermediate portion of said tank, said member having a first passageway therethrough with one end of said passageway being disposed adjacent to said axis and with its other end being open to the interior of said tank and being disposed a substantial distance from said axis; weight means

operatively connected to said member for causing said member to swing about said axis to a position in which said open end of said first passageway is disposed adjacent to the lower portion of said tank; means providing said tank with an outlet opening disposed adjacent to the normal lower portion of said tank; a second passageway within said tank having one end communicating with said tank outlet opening and having its



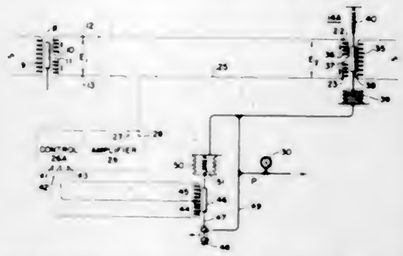
other end communicating with said first passageway at its said axis end; a third passageway within said tank having one end communicating with said tank outlet opening and having its other end opening into the interior of said tank adjacent to the normal lower portion of said tank; and a normally open valve for said third passageway; and means for closing said valve in response to a predetermined tilt of said tank from its normal position.

2,662,539
FLUID-COUNTERBALANCED FORCE MEASURING DEVICE
Alfred A. Markson, Mount Lebanon Township, Allegheny County, Pa., assignor to Hagan Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 16, 1949, Serial No. 115,963
2 Claims. (Cl. 137—85)



1. A thrust measuring device comprising a housing having a flexible diaphragm secured thereto to provide a pressure tight chamber within the housing, a valve actuated in response to movement of said diaphragm from a predetermined position for admitting pressure to said chamber when the diaphragm moves in one direction and exhausting pressure therefrom when the diaphragm moves in the opposite direction from said predetermined position, a plurality of levers each having a fulcrum and a bearing connection with said diaphragm, and a uni-directional coupling between said levers adapted to transfer a thrust applied to one of said levers through another of said levers on said diaphragm when a force to be measured is applied to one of said levers in one direction, and to disconnect said levers and cause the thrust to be applied directly on said diaphragm by the lever to which the force to be measured is applied when that force acts on said lever in the opposite direction, said uni-directional coupling comprising a knife edge for each lever, said knife edges being seated on opposite edges of said levers and that said levers and knife edges are connected by tension members that are slidable in said knife edges when the levers move towards each other, said tension members being stressed in tension to urge said knife edges against their respective levers when said levers tend to move away from each other.

2,662,540
CONTROL SYSTEM
Victor S. Rutherford, East Cleveland, Anthony J. Hornfeck, Lyndhurst, and Paul S. Dickey, East Cleveland, Ohio, assignors to Bailey Meter Company, a corporation of Delaware
Application February 11, 1950, Serial No. 143,748
8 Claims. (Cl. 137—85)

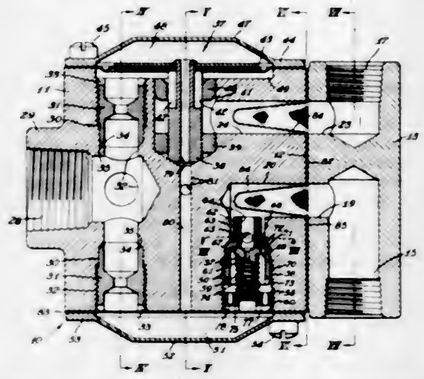


1. Apparatus for establishing a relationship between the value of a variable and a fluid loading pressure for indicating, recording or control purposes, including in combination, transmitter means establishing a first electrical potential representative in magnitude of the instantaneous value of the variable, a source of fluid pressure, means responsive to a loading pressure of said fluid, a pilot valve between the source of fluid pressure and the responsive means for regulating the loading pressure, solenoid means connected to actuate the pilot valve, means establishing a second potential, a network comparing the potentials, amplifier means responsive to the difference between the first and second potentials for establishing a third potential for actuating the solenoid means and energizing the means to establish the second potential, second pressure responsive means actuated by the loading pressure, and means connecting said last mentioned means to mechanically exert its force on the pilot valve.

2,662,541
FLOW CONTROLLING APPARATUS
T Cyril Noon, Bainbridge Township, Geauga County, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 28, 1948, Serial No. 11,951
19 Claims. (Cl. 137—100)

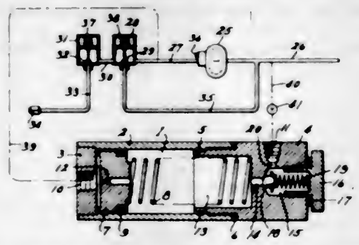
1. In apparatus for combining the flow of a plurality of streams of fluid into a common

stream, a substantially cubical body block having four passages opening into one face thereof, said passages communicating respectively with the four faces of the body block normal in plane to said first mentioned face, variable orifice means controlling flow of fluid from said passages to at least three of said four faces, closure plates se-



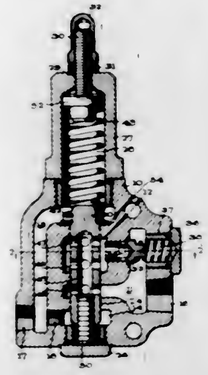
cured to said four faces and providing flow chambers, a common outlet port in the face of said block opposite to said first mentioned face, flow passages leading from said chambers to said common outlet port and having fixed metering orifices therein, and means controlling the operation of said variable orifice means.

2,662,542
HYDRAULIC CONTROL DEVICE FOR HIGH-PRESSURE LIQUID-FUEL-SUPPLY PUMPS OF PRESSURE-ATOMIZING OIL BURNERS
Joseph A. Logan, Hadley, and George D. Robinson, Agawam, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application December 22, 1951, Serial No. 262,954
6 Claims. (Cl. 137—108)



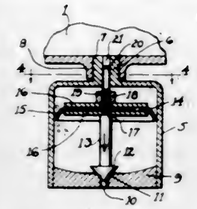
1. A hydraulically-operable control device for the high-pressure fuel-supply pump of a pressure-atomizing oil burner, comprising, a tubular barrel affording within it a cylinder, heads closing opposite ends of the cylinder and provided one with an inlet and the other with an outlet therethrough, the head provided with the outlet passage having an exteriorly threaded annular part screw threaded into one end of said barrel and the entrance to the outlet passage opening into the space within the annular portion, a piston slidable in said cylinder, a spring acting between the piston and the last-named head and in part telescoped within said annular part for moving the piston against the other head and adapted to yield under pressure of oil pumped into said inlet to allow the piston to move toward and into engagement with the end face of said annular portion, said piston having a passage of restricted area therethrough for interconnecting the inlet end of the cylinder to the space within said annular portion and thus to the outlet when the piston engages said end face.

2,662,543
PRESSURE REDUCING VALVE
Hugh J. Stacey, Willoughby, Ohio, assignor, by mesne assignments, to The New York Air Brake Company, New York, N. Y., a corporation of New Jersey
Application March 27, 1950, Serial No. 152,209
2 Claims. (Cl. 137—115)



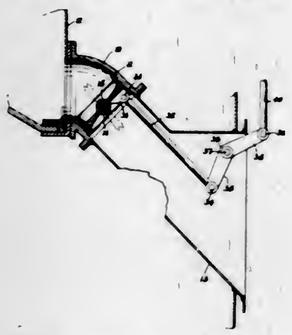
1. In a combined pressure-reducing and relief valve the combination of a housing enclosing a bore adapted to serve as a valve seat, and also enclosing a vented chamber communicating with both ends of said bore, there being a high pressure supply connection and port leading to said bore near the first end thereof and a reduced pressure connection and port leading to said bore between the high pressure port and the second end of said bore, and there being at said second end a control edge for coaction with a valve to control discharge to said vented chamber; a valve piston reciprocable in said bore between limits and stop means to define said limits, said piston being closed at the end adjacent said second end of the seat and having an axial bore leading thence past said seat ports and open at the end of the piston which extends into said vented chamber beyond the first end of the seat, said piston having ports leading from said bore through the wall of the piston and adapted to coact with said seat ports, said piston having a first limiting position in which the piston bore is in free communication with both the high pressure supply port and the reduced pressure port and the control edge is blanked, a second and opposite limiting position in which the supply port in the seat is blanked and the piston bore is connected with the reduced pressure seat port and with the vented chamber past said control edge and intermediate positions in which the piston bore communicates solely with the reduced pressure ports; yielding means biasing the valve piston toward said first limiting position; and a plunger reciprocable through the open end of the piston bore out of obstructing relation with the high pressure ports the bore of the piston serving as a cylinder for the plunger and the plunger reacting upon the housing in opposition to said bias with a force dependent on the fluid pressure in said bore.

2,662,544
DRAIN VALVE MECHANISM FOR FLUID PRESSURE SYSTEMS
Axel W. Hall, Still River, Mass.
Application February 11, 1950, Serial No. 143,790
4 Claims. (Cl. 137—204)



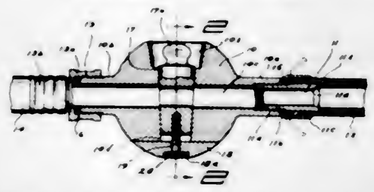
1. A drain valve device for a fluid pressure system comprising in combination, a casing providing a smooth-wall cylinder having an opening in its upper end and having its lower end provided with a discharge port, a piston movable within said cylinder and carrying a valve portion responsive to downward movement of said piston to close said discharge port, said piston having a portion of flexible material around its periphery with a flange facing in the direction of said discharge port so as to yield inwardly in response to pressure in the upper portion of said cylinder to permit the passage of fluid and moisture to the lower portion of said cylinder when said piston moves downwardly to cause said valve portion to close said discharge port, accompanied by equalization of pressure on opposite sides of said piston, and with the peripheral portion of said piston yielding outwardly to prevent passage of fluid and moisture from the lower to the upper portion of said cylinder in response to a decrease of system pressure below the pressure in the lower portion of said cylinder, accompanied by upward movement of said piston to disengage its valve portion from said port for discharging through it fluid and moisture from the lower portion of said cylinder to the atmosphere, until pressures on the opposite sides of said piston are again equalized.

2,662,545
SELF-CLEANING BUTTERFLY GATE
Hugh Kelley, Enterprise, Kans., assignor to The J. B. Ehrsam & Sons Mfg. Co., Enterprise, Kans., a corporation of Kansas
Application July 25, 1951, Serial No. 238,427
10 Claims. (Cl. 137—242)



5. A butterfly valve comprising an integral, discoid head having opposite end faces, one of said faces being bounded, on one side of a selected diameter of said head, by a semi-circular edge terminating substantially in the ends of said diameter and being bounded, on the other side of said diameter, by a semi-elliptical edge terminating substantially in said diameter ends, the major radius of said semi-elliptical edge being perpendicular to said selected diameter and the portions of said face on opposite sides of said selected diameter lying in angularly related planes, intersecting in said selected diameter, and the other of said end faces being bounded, on the first-named side of said selected diameter, by a semi-elliptical edge terminating substantially in the ends of said diameter, having a major radius equal to and aligned with said first-named major radius and lying in the plane of said first-named semi-elliptical edge, and said other end face being bounded, on the second-named side of said selected diameter, by a semi-circular edge terminating substantially in said diameter ends and lying in the plane of said first-named semi-circular edge.

2,662,546
VALVE FOR HOSE LINES
Clarence L. Nelson, Minneapolis, Minn.
Application November 16, 1949, Serial No. 127,640
1 Claim. (Cl. 137—382)

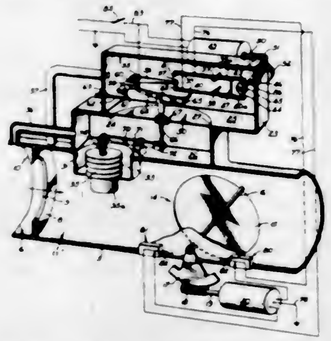


A valve adapted for use in a lawn-sprinkling hose line, having in combination, a substantially smooth spherical body having substantially cylindrical portions projecting at opposite sides thereof, said body having a flat side between said portions, a substantially cylindrical recess at the side opposite said flat side and a diametrical bore coaxial with said recess, extending from said recess to and tapering to said flat side, said portions having their end portions respectively interiorly and exteriorly threaded to receive respectively male and female couplings for lawn-sprinkling hoses, a one-piece cock fitting in said bore, having one end spaced from said flat side and having a flat handle portion at its other end disposed entirely in said recess, a plate-like member engaging said flat side and so formed as to substantially complete the spherical shape of the body, a headed screw extending centrally through said member and threaded axially into said cock, said member being recessed to receive the head of said screw, said body having a passage extending longitudinally therethrough and through said first mentioned portion and said cock having a transverse passage therethrough adapted to be moved into and out of alignment with said first mentioned passage.

2,662,547
FLOW CONTROL APPARATUS
John E. Comeau, Culver City, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application September 3, 1946, Serial No. 694,498
11 Claims. (Cl. 137—468)

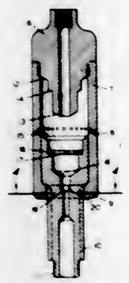
1. A constant weight fluid flow control device, including: a duct for conveying fluid; a septum

in said duct and provided with a restricted opening, said septum and opening providing in said duct a high pressure region and a relatively lower pressure region for effecting a fluid pressure differential therebetween; a casing; a diaphragm disposed in said casing and dividing said casing into two compartments; a first conduit connected between said high pressure region and one of said compartments; a second conduit connected between said lower pressure region and the other of said compartments; rotatable valve means in said duct disposed downstream from said opening for regulating the rate of fluid flow through



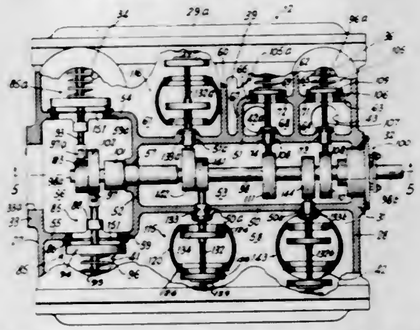
said duct, said valve means having a worm wheel sector; a reversible electric motor having a worm meshing with said sector for rotating said valve means in either direction; a main electric circuit having a pair of branch circuits for said motor; switch means in said branch circuits and operatively connected to said diaphragm, said diaphragm being responsive to variations in fluid pressure differential in said compartments to open and close said switch means; and means responsive to variations in fluid density in the high pressure region of said duct to open and close said switch means.

2,662,548
TELESCOPING BORED-PLUG SUBCIRCULATION VALVE
Robert Collins Pryor, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 25, 1949, Serial No. 123,415
4 Claims. (Cl. 137—608)



1. A bored plug-type substantially cylindrical sub-circulation valve which comprises in combination a bored supporting head, provided with at least two beveled seating surfaces disposed one below the other and having different diameters, said beveled seating surfaces being separated by at least two cylindrical surfaces coaxial with said bore in said head, said cylindrical surfaces also having different diameters, a resilient sealing member engaging shoulder disposed intermediate said cylindrical surfaces, a tubular body having at least one port therein telescopically mounted on said supporting head, said body having a bored member adapted in valve closed position to simultaneously fit in sealing engagement with said seating surfaces and a resilient sealing member disposed on said resilient sealing member engaging shoulder, said port being disposed between the cooperating seating surfaces of the supporting head and bored member in the valve open position to establish full communication between said port and the bore in said bored member, and said port being covered by said supporting head upon said ported body being reciprocally moved with respect to said supporting head to bring the cooperating seating surfaces of the supporting head and bored member in sealing engagement.

2,662,549
MULTIPORT VALVE
John R. Rhinehart, Ridgewood, and Charles H. Eshrich, Hasbrouck Heights, N. J., assignors to Belco Industrial Equipment Division, Inc., Paterson, N. J., a corporation of New Jersey
Application May 2, 1949, Serial No. 90,958
12 Claims. (Cl. 137—634)

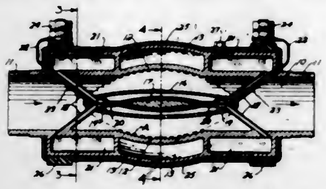


9. A multiport valve comprising a unitary body subdivided into a plurality of chambers, one of said chambers being elongated and centrally located, a second chamber being longitudinally aligned with said first chamber, a third chamber being located on one side of said first and second chambers, a fourth chamber being located on the other side of said first and second chambers, a pair of ports respectively connecting said third and fourth chambers with said second chamber, connection ports on said body respectively communicating with said third and fourth chambers, valve means in each of said ports, valve actuating means in said first chamber and including a portion in said second chamber, for operating said valve means.

2,662,550
VALVE FOR CONTROLLING FLUID FLOW BY VARIATION IN ELECTRIC CURRENT
Louis C. Meyer, near Mount Morrison, Colo., assignor of forty per cent to Andrew H. Meesters, Denver, Colo.
Application March 7, 1949, Serial No. 79,984
4 Claims. (Cl. 137—638)

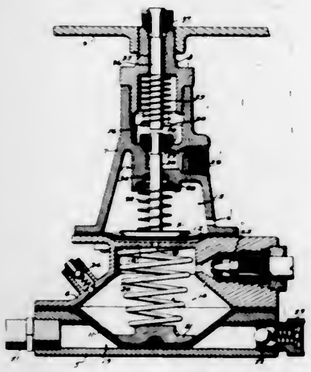
1. An electrically controlled valve comprising: a valve housing; a sealed, transversely expansible, fluid-containing member mounted axially within said housing; an electric heating element mounted coaxially within said expansible member; means for conducting electric current to

said element to cause the latter to heat and expand the fluid in said expansible member thereby expanding the latter transversely within said



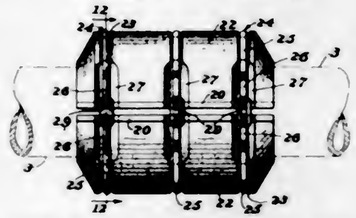
housing to restrict the flow therethrough; and means preventing longitudinal expansion of said expansible member.

2,662,551
AIR COMPRESSOR TANK DRAIN VALVE
Dewey Wilkerson, Denver, Colo., assignor to Wilkerson Corporation, Denver, Colo., a corporation of Colorado
Application May 7, 1951, Serial No. 224,991
1 Claim. (Cl. 137—650)



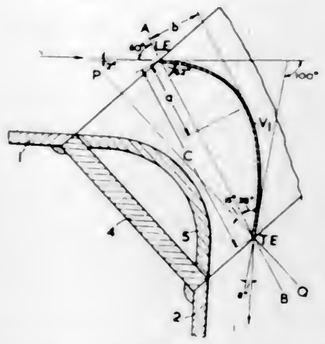
A compressed air tank drain valve comprising a housing having a base section, a top section, and an intermediate section, said base section having an inlet for communication with an intermittent pressure air line, said base and intermediate sections being oppositely dished from their adjacent faces, a first diaphragm secured between the base and intermediate sections and separating their interiors into a first compartment in open communication with the air inlet and a second compartment in restricted communication with the ambient atmosphere, a second diaphragm secured between said intermediate and top sections as a wall of said second compartment, said top section having a tank drain passage therethrough and a valve controlling said passage, means in said top section common to both said valve and said second diaphragm and biasing the valve to closed position and said second diaphragm to a position of flexion inwardly of said second compartment, means in said second compartment biasing said first diaphragm to a position of flexion outwardly of the second compartment and into the first compartment, said first diaphragm flexing into the second compartment in response to application of air at line pressure through said air inlet whereby to compress the air in the second compartment and thereby flex said second diaphragm outwardly to open said drain passage valve, and an air release valve in a wall of said intermediate housing section adjustable to regulate release of compressed air from said second compartment and thereby determine the rate of closure of the drain passage valve in response to its biasing means.

2,662,552
RIVER WEIGHT FOR PIPE LINES
Edgar A. Rowe and Raymond M. Zschau, Martinsville, Ill.
Application October 6, 1952, Serial No. 313,274
3 Claims. (Cl. 138—25)



1. A river weight for anchoring a conduit in a body of water, said weight comprising a hollow substantially semi-cylindrical metal base member which embraces the outer periphery of said conduit, said base member having a pair of oppositely disposed flanges extending substantially perpendicularly to the outer periphery of said base member, at least one generally semi-circular metal reinforcing rod having the outer ends thereof rigidly attached substantially perpendicularly to said respective oppositely disposed flange members, said reinforcing rod being provided with an arcuate portion which is spaced radially outwardly of the outer periphery of said metal base member, said reinforcing rod and said metal base member being covered with concrete.

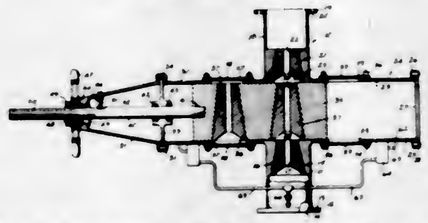
2,662,553
GASEOUS FLUID FLOW SYSTEM
Norman Albert Dimmock, Woking, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company
Application June 15, 1951, Serial No. 231,876
Claims priority, application Great Britain June 22, 1950
6 Claims. (Cl. 138—37)



1. The combination with a fluid duct comprising two straight duct sections, respectively an upstream section and a downstream section, meeting at an angular elbow, of a series of parallel elongated blades substantially aligned along a plane bisecting the angle of the elbow and successively spaced one from another at distances related substantially in arithmetic progression

with the least distance toward the inside wall of the elbow, each of said blades extending lengthwise across said duct and comprising a single elongated sheet member of curved cross-section substantially constant over the blade length and common to each blade, said common blade cross-section being approximately a parabolic arc which subtends an angle greater by a small proportion (e. g. of the order of 10%) than the angle of the elbow and whose radius of curvature increases progressively from the leading edge to the trailing edge of the blade section, said leading and trailing edges being inclined toward the inside wall of the elbow of respectively said upstream and downstream duct sections, said leading edge being more nearly aligned with respect to said wall of the upstream duct section than is said trailing edge with respect to said wall of the downstream duct section.

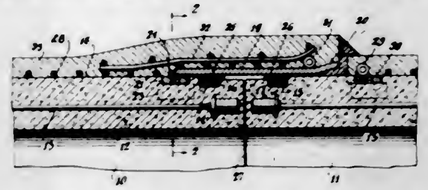
2,662,554
VALVE
Grover C. Singer, Brownsville, Tex.
Application May 3, 1951, Serial No. 224,394
3 Claims. (Cl. 138—45)



3. A valve unit comprising intersecting sections, one of said sections comprising a main housing, a valve reciprocatingly mounted in said housing and having an opening formed therein, a second opening formed in another of said sections, said valve being movable in said main housing so as to aline the first mentioned opening with the second mentioned opening, each end of said valve forming an oil chamber with one end of said main housing, grooves formed in said valve extending generally longitudinally thereof, a strip of sealing material mounted in said grooves, additional grooves formed in said valve and extending generally longitudinally thereof, some of said last named grooves being in overlapping relationship with other of said last named grooves and some of said last named grooves communicating with the oil chamber formed at one end of said main housing and the other of said last named grooves communicating with the oil chamber formed on the other end of said housing.

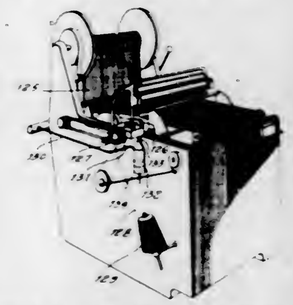
2,662,555
PIPE AND METHOD FOR MAKING THE SAME
Philip R. Hirsh, Montclair, N. J., assignor to Lock Joint Pipe Company, East Orange, N. J., a corporation of New Jersey
Application December 3, 1948, Serial No. 63,322
3 Claims. (Cl. 138—84)

1. A bell-ended pipe section comprising a tubular integral mass of hardened concrete in the form of a conduit, a rigid sleeve of metal disposed outside of said conduit adjacent one of its ends and extending beyond said end to provide a bell for said pipe section, the portion of said sleeve overlapping said conduit having an inner diameter slightly greater than the diameter of the underlying outer surface of said conduit thereby leaving a substantially uniform clearance between the sleeve and the conduit, means permanently attaching said sleeve to said conduit, said attaching means comprising an inset of metal and a positive connection fast to said sleeve and to said inset, said inset being immovably contained in the concrete of said conduit and exposed at the outer surface of said conduit locally of



the rear edge of said sleeve, and an annular gasket disposed in a circumferential groove in the outer surface of said conduit intermediate said attaching means and said end of said conduit whereby said clearance is sealed to prevent flow of fluid from within the bell to the rear edge of said sleeve.

2,662,556
DEVICE FOR WEAVING OF FABRICS
Vladimír Svatý, Roztoky, near Jilemnice, Czechoslovakia, assignor of seventy-five per cent to Ceskoslovenske Textilni Zavody, narodni podnik, Prague, Czechoslovakia, a company of Czechoslovakia
Application April 3, 1950, Serial No. 153,507
Claims priority, application Czechoslovakia April 2, 1949
2 Claims. (Cl. 139—127)

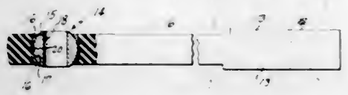


1. A device for weaving of fabrics comprising in combination means for operating the warp, a nozzle for the production of an air jet adapted to entrain the weft thread into the shed, a pair of cooperating retracting rollers mounted in front of the nozzle, means for guiding the weft thread between the said retracting rollers, means for rotating the said rollers in a direction to impart to the thread movement opposite to the direction of the picking motion, a relieving recess in at least one of the said retracting rollers to release the thread from engagement with the said retracting rollers in the moment of operation of the air nozzle.

2,662,557
SWEEPSTICK
Lewis R. Heim, Fairfield, Conn., assignor to The Heim Company, Fairfield, Conn., a corporation of Connecticut
Application June 15, 1949, Serial No. 99,135
9 Claims. (Cl. 139—151)

1. A sweepstick for looms and the like comprising a connecting bar provided with means at

one end for connecting it to a driving member, and means at the other end for connecting it to a driven member, one of said means comprising a bearing including a spherical central member provided with a bearing passage therethrough, a pair of enclosing rings mounted in the bar one



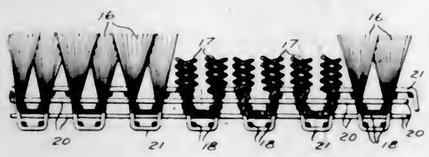
on each of the opposite sides of the central member and having bearing surfaces forming portions of a spherical surface to grip and hold the central member for rocking movement, and said bar being composed of flexible resilient material capable of limited yielding both laterally and longitudinally under strain.

2,662,558
PILE FABRIC
Emory P. Mersereau, Jr., Thornwood, N. Y., and Jean C. Wetherill, Norwood, Pa., assignors to Alexander Smith, Incorporated, a corporation of New York
Application November 24, 1950, Serial No. 197,386
2 Claims. (Cl. 139—391)



1. A pile fabric comprising a backing and pile tufts secured therein, at least some of said tufts comprising yarns having two or more plies with a final plying twist of a given hand but being preset with an initial plying twist of the opposite hand, said tufts having upstanding legs in which the individual plies are separated and coiled in interleaved helical form due to having been under a strain resulting from said preset initial twist of opposite hand.

2,662,559
PILE FABRIC
Philip Miller, Yonkers, N. Y., assignor to Alexander Smith, Incorporated, Yonkers, N. Y., a corporation of New York
Application May 17, 1951, Serial No. 226,854
2 Claims. (Cl. 139—391)



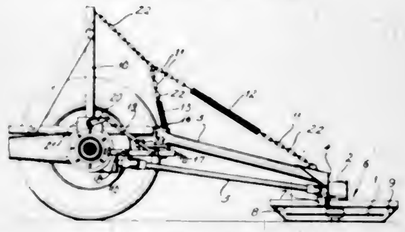
1. A pile fabric comprising a backing and pile tufts secured therein, at least some of said tufts comprising yarns having two or more plies with a final plying twist of a given hand but being preset with an initial plying twist of the opposite hand, the individual plies having a singles twist of said opposite hand, said tufts having upstanding legs in which the individual plies are separated and coiled in interleaved helical form due to having been under a strain resulting from said preset initial twist of opposite hand.

2,662,560
PILE FABRIC
Robert J. Jackson, Hazardville, Conn., assignor, by mesne assignments, to Alexander Smith Incorporated, a corporation of New York
Application June 22, 1950, Serial No. 169,564
3 Claims. (Cl. 139—401)



1. A pile fabric comprising a backing and pile tufts secured therein, at least some of said tufts comprising yarns having two or more plies with a final plying twist of a given hand but being present with an initial plying twist of the opposite hand, said tufts having upstanding legs in which the individual plies are separated, bent and pulled down due to having been under a strain resulting from said preset initial twist of opposite hand.

2,662,561
TIMBER-MOVING SAW ATTACHMENT FOR TRACTORS
George D. Duncan, Jr., Fulton, Mo.
Application November 18, 1949, Serial No. 128,125
3 Claims. (Cl. 143—43)

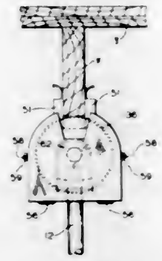


1. In combination with a tractor having a horizontally pivoted drawbar, a saw attachment comprising a vertical pivot mounted on said drawbar, a stop mounted on said drawbar, a boom mounted on said vertical pivot for free swinging behind the tractor transversely thereof, a saw, having a substantially horizontal blade, mounted on the free end of said boom, a lug on the pivoted end of said boom engaging the stop on the drawbar at a position such that a portion of the blade of said saw extends beyond one side of said tractor, a ground-engaging shoe extending beneath the blade, the long axis of said shoe being substantially parallel with the direction of travel of the tractor when said lug and said stop are engaged, said shoe being positioned to leave unobstructed that portion of the blade which extends beyond the side of the tractor.

2,662,562
SAW ATTACHMENT FOR ELECTRIC HAND DRILLS
Carl G. Lindell, Minneapolis, Minn.
Application December 27, 1949, Serial No. 135,187
2 Claims. (Cl. 143—43)

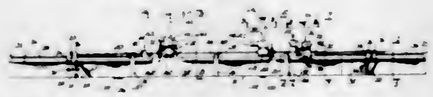
1. An upright elongated shaft, a housing fixed on the upper end of the shaft, an arbor journaled in the housing perpendicular to the projected axis of the shaft, a circular saw mounted on the arbor outwardly of the housing, means for driving the arbor, a pair of wide side plates secured to the housing perpendicular to the plane of the saw and spaced inwardly thereof, said plates projecting materially above the saw and

laterally spaced equi-distances from the projected axis of the shaft, the plates above the housing being transversely flat, and parallel with their extreme upper end portions turned out-



wardly, and a stop member projecting between the side plates above the housing and attached to one of the side plates for adjustment longitudinally thereof.

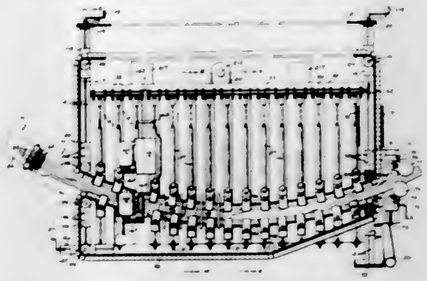
2,662,563
APPARATUS ADAPTED TO THE CUTTING, SHAPING, OR FORMING OF STRUCTURAL MEMBERS
Russell E. Grove, Fresno, Calif.
Application May 19, 1952, Serial No. 288,678
1 Claim. (Cl. 143—47)



In a lumber shaping apparatus, an elongated table, a fence mounted longitudinally of the table, a pair of brackets slidably mounted on the table in adjustable spaced relation longitudinally thereof, a push-pull rod interconnecting the brackets in adjustable spaced relation, a transverse stop pivotally mounted on each of the brackets for movement between a position rested transversely on the table and an upwardly pivoted position, an auxiliary stop pivotally mounted on one of the transverse stops for movement between a position extended longitudinally of the table from its respective stop toward the opposite stop and an upwardly pivoted position, means mounted on the table engageable with the push-pull rod releasably to lock the rod in adjusted position longitudinally of the table to locate the brackets in fixed positions longitudinally of the table, and a power driven saw mounted on the table intermediate the stops for engagement with lumber rested on the table.

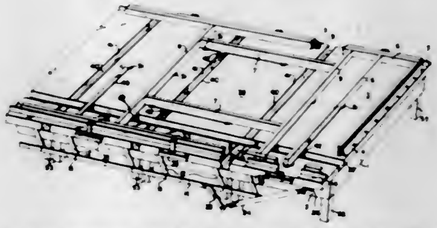
2,662,564
CONTINUOUS GLUING PRESS
Henry Harris Payzant, Seattle, Wash., assignor to Timber Structures, Inc., a corporation of Delaware
Application October 27, 1947, Serial No. 782,351
23 Claims. (Cl. 144—1)

1. In a machine for forming laminated wooden beams from smaller bars which have been placed side by side and provided with adhesive between contiguous faces, a pair of endless conveyors arranged with adjacent working flights traveling in the same direction and engaging the outer faces of the outer pair of bars while the adhesive sets, guiding means arranged to maintain said working flights in substantial parallelism, adjustment means extending longitudinally of one of said working flights and engaging the guide means associated with said one working



flight for shifting said one working flight toward the other of said working flights.

2,662,565
TABLE FOR CONSTRUCTING BUILDING FRAMES
Alex P. Le Vay, Dayton, Ohio
Application May 25, 1953, Serial No. 357,308
5 Claims. (Cl. 144—288)

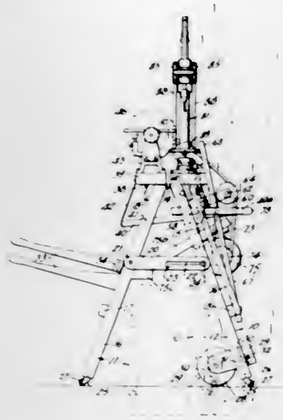


1. An erector table for fabricating panels for prefabricated buildings, said table having a work platform on which the panel pieces are assembled and secured together, means cooperating with said table for raising the finished panel therefrom preparatory to removing the panel from the table, and means for guiding the finished panel longitudinally of the table during the removal operation after the panel has been raised, said last mentioned means comprising a plurality of side-steadying members mounted on the edges of the table and presented edgewise to the panel, each of said side-steadying members having a limited adjustment along the edges of the table and being adjustable in height to accommodate the edges of the finished panel in its elevated position.

2,662,566
FOLDING WORKBENCH FOR POWER TOOLS
Lloyd F. Kurschner, Minneapolis, Minn.
Application May 14, 1949, Serial No. 93,251
4 Claims. (Cl. 144—286)

1. In a bench of the class described, a pair of downwardly diverging legs at each end of the bench, means hingedly connecting the legs of each pair for inwardly folding movement, longitudinal tie members connecting the legs on each side of the bench at their upper ends, a top structure comprising two separate and independent longitudinal top members each overlying the legs on one side of the bench, one of the top members being rigidly secured to the respective legs, hinges attaching the other top member to the respective tie member for outward and downward tilting movement, a lever extending transversely of the bench and intermediately pivoted to one of the

legs that the tilting top member overlies, a strap connecting the lever at one end to the outer por-



tion of the tiltable top member, and means holding the lever from moving pivotally.

2,662,567
HANDSAW FRAME
Philip Frank La Roche, London, England
Application March 18, 1952, Serial No. 277,164
1 Claim. (Cl. 145—35)



In a hand saw frame including a frame of U-shaped section having distal and proximal limbs, a block adjustable lengthwise on the proximal limb, a handle with a locking means for locking the block in a selected position on the proximal limb, and an anchoring and tensioning means carried by the block for one end of a blade, said distal limb having therein on one side a series of regularly-spaced parallel slots extending at right angles to the axis of the distal limb, the improvement in which said distal limb also includes a longitudinal groove on the outermost face of the limb intersecting said series of slots, an adapter for the distal limb including a saddle piece fitting in said groove and parallel limbs respectively extending from the ends of the saddle piece and respectively engaging in a pair of said spaced slits, and an anchorage means on said adapter for the other end of the blade.

2,662,568
MULTIPLE BLADE SCREW DRIVER
Raymond P. Lavietes, Shelton, Conn., assignor to Shelton Plane and Tool Manufacturing Company, Shelton, Conn., a corporation of Connecticut
Application July 15, 1949, Serial No. 104,999
3 Claims. (Cl. 145—64)



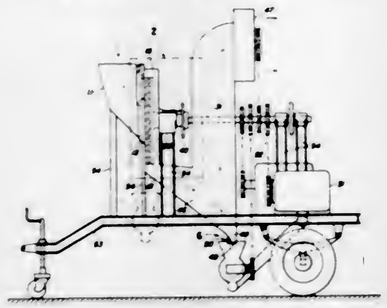
1. A blade tool comprising a blade holder including a pair of spaced and opposed longitudinal members held at one end by a spacing collar and stud transversely holding the longitudinal members in spaced position, a tool blade pivotally mounted between the other ends of the longitudinal members, the interior surfaces of the longitudinal members being substantially flat and their exterior surfaces being rounded, a tubular handle member having a longitudinal passage including at one end of the member an opening comprising two opposing flat wall surfaces and two opposing convex wall surfaces, the peripheral interior surface of said handle member slidably engaging the rounded exterior surfaces of the blade holder with the edges of the members of the holder engaging the flat surfaces of the opening to prevent turning of the holder in the handle member, a pair of opposing shoulders protruding from the interior of the handle member near its first mentioned end opening, a substantially U-shaped spring retaining member including an intermediate coil wound around the spacing collar, its free ends formed with outwardly extending hooks having frictional engagement with the internal walls of the handle member and positioned to cooperate with the shoulders to limit outward movement of the blade holder, a hand knob at the other end of the handle member, the blade holder being slidably guided within the handle member so that it may be drawn out to the stop position allowed by the engagement of the hooks with said shoulders, so that the blade may be turned on its pivot to operating position and the blade holder then slid back into the handle and prevented from turning within the handle.

2,662,569
HANDLE FOR HACK SAW BLADES
Joseph E. Swalinkavich, Jr., Robbinsdale, Minn.
Application June 7, 1950, Serial No. 166,737
1 Claim. (Cl. 145—108)



A narrow, pliable handle for hack saw blades having wide, flat sides, said handle having therein a longitudinal axial passageway that is rectangular in cross section into which the blade may be endwise inserted with a working fit, said handle when gripped while operating the blade, will be squeezed and flex the wide side walls of said handle and press the handle onto the back and the teeth of the blade and thus prevent relative endwise movement of the handle and the blade.

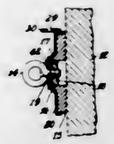
2,662,570
HULLING MACHINE HAVING RUBBER HULLING SURFACES OF DIFFERENT HARDNESS
Edward Frank Hansen, Stanton, N. J., assignor to The Baker Castor Oil Company, Jersey City, N. J., a corporation of New Jersey
Application March 9, 1953, Serial No. 341,009
10 Claims. (Cl. 146—299)



9. In a machine adapted for the decortication, hulling, shelling, and threshing of castor beans, peanuts, almonds and similar seeds and nuts which comprises a feed inlet, two opposed rubber-faced surfaces, and means for moving one surface relative to the other surface, the improvement comprising two opposed substantially parallel, rubber-faced, material-contacting surfaces characterizzed by: (*a*) having the rubber facing on one surface of a substantially different hardness from the hardness of the rubber facing on the other surface, the Shore A hardness of the harder rubber facing being not greater than about 70, the Shore A hardness of the softer rubber facing being in the range from about 15 to about 45, and the difference between the Shore A hardnesses of the two rubber facings being not less than about 10, and the material constituting said facings being selected from the group consisting of natural and synthetic rubbers; (*b*) said parallel facings defining a hulling gap which extends for at least 1.5 inches in the direction of travel of said seeds and nuts; and (*c*) the distance between said facings being less than the average length of and greater than the average width of the hull-free seeds and nuts.

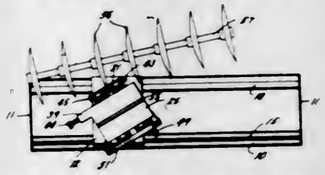
2,662,571
SAFETY MEANS FOR LEAVING DOORS AJAR
Charles P. Kessler, Bronx, N. Y.
Application May 25, 1950, Serial No. 164,215
1 Claim. (Cl. 151—41.76)

In a device of the class described, means for attaching a safety chain to a door frame, comprising a bottom plate having an opening therethrough terminating in a non-circular enlarged recess in the bottom of said plate, a nut fitted within said recess and being held in position therein, said nut having a threaded aperture, a face plate embracing the top and sides of said bottom plate, an eyebolt having a shank threaded in said aperture, said face plate being formed with upwardly extending lips engaging the sides



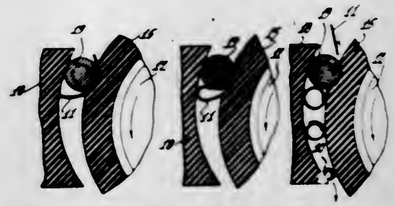
of the eye of said eyebolt, whereby to prevent the latter from turning, and means for securing said bottom plate to said door frame.

2,662,572
DISK ROLLING MACHINE
Leslie H. Goodell, St. Francis, Kans., and Leverett Ercil Goodell, Haigler, Nebr.
Application August 11, 1952, Serial No. 303,806
4 Claims. (Cl. 153—54)



1. A portable disc rolling device comprising: a base plate; a pedestal movably supported on said base plate; a vertical axis pivot member pivoting said pedestal on said base plate at one side of the former; a bearing housing supported on said pedestal; a horizontal bearing sleeve mounted in said housing; a movable, horizontal bearing sleeve mounted in said housing in substantially parallel relation to the sleeve; a roller shaft rotatably mounted in each sleeve and projecting forwardly therefrom; a roller mounted on the forwardly projecting extremity of each shaft, said rollers being adapted to contact the opposite sides of a disc, said housing being so constructed as to permit free entrance of the disc between said rollers; means for urging said rollers together; and means for rotating one of said rollers.

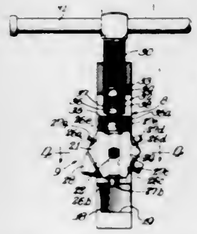
2,662,573
METHOD AND APPARATUS FOR FORMING THIN-WALLED METAL SLEEVES
Edward C. Cichoski, Jersey City, and William C. Dale, Basking Ridge, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application June 20, 1950, Serial No. 169,202
10 Claims. (Cl. 153—64)



1. Apparatus for forming a flat sheet metal blank into a sleeve, comprising a member having a resilient face and a roller movable with respect to said member, said roller engaging said surface in a curved plane to provide a normally closed curved path, whereby said stock force-fed between said roller and member in said curved

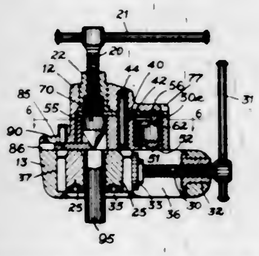
path is given a curvature and further fed, and another member having a resilient face oppositely disposed with respect to the resilient face of the first named member and extending transversely of said roller and adjacent thereto, whereby said another member is adapted to engage said further fed stock to further curve the same to sleeve shape.

2,662,574
TUBE FLARING TOOL
George E. Franck, Riverside, Ill., assignor to The Imperial Brass Manufacturing Company, a corporation of Illinois
Application January 19, 1950, Serial No. 139,331
4 Claims. (Cl. 153—79)



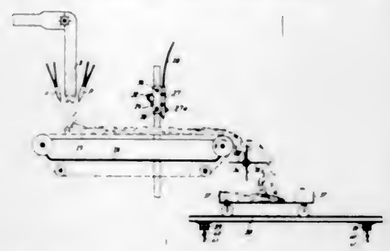
1. A tube working tool comprising a yoke engageable with a tube clamping means, an adapter member having a plurality of diametrically opposed faces, means for pivotally and movably mounting said adapter in said yoke, tube flaring means on at least one of said faces and positionable with pivotal movement of the adapter adjacent the end of a tube held in the tube clamping means, and means on said yoke engageable with the face of the adapter opposed to the flaring means for moving said adapter to force said flaring means against the end of a clamped tube.

2,662,575
FLARING TOOL
Glenn W. Wolcott, Dayton, Ohio, assignor to Penn Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application September 30, 1950, Serial No. 187,749
10 Claims. (Cl. 153—79)



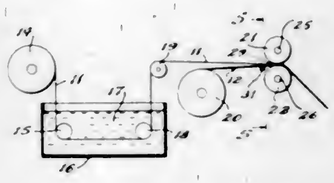
1. A flaring tool comprising a housing adapted to be positioned in predetermined working relation with a tube to be double flared, an operating member mounted for axial movement in said housing in coaxial relation with the working position of said tube, a carrier member in said housing, a plurality of double flaring punches supported in said carrier member and of graduated effective sizes for shaping the ends of tubes of correspondingly different sizes in preparation for double flaring, and means supporting said carrier member for movement in said housing to position a selected one of said punches in line with said operating member for operation thereby.

2,662,576
MACHINE FOR THE CONTINUOUS MANUFACTURE OF A STUFFING MATERIAL
Chaim Bernard Pukacz, Paris, France
Application May 13, 1952, Serial No. 287,636
Claims priority, application France May 23, 1951
5 Claims. (Cl. 154—29)



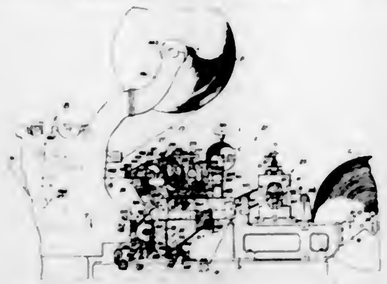
1. A machine for the continuous manufacture of a stuffing material by spraying an adhesive substance on moving fibres, comprising an outlet conduit for the fibres, a spraying device placed in such manner that the adhesive substance projected by said spraying device encounters the fibres emerging from the machine outside said outlet conduit, an apertured endless conveyor mounted below said outlet conduit for receiving said fibres sprayed with adhesive substance, a tank placed below the upper side of said conveyor for receiving excess adhesive substance, an air blowing device mounted above said upper side of the conveyor, means for detaching from said conveyor the fibres which tend to adhere to the same, and a final receiver for the fibres coming from said conveyor.

2,662,577
METHOD OF MAKING TRIMMING
Richard A. Gordon, Brooklyn, N. Y.
Application April 13, 1953, Serial No. 348,476
11 Claims. (Cl. 154—33.05)



4. A method of making trimming comprising the steps of obtaining a fabric made of a thermoplastic material, impregnating a securing member with an agent adapted to swell said fabric, disposing said securing member upon a surface of the fabric so that the part of the fabric in contact with the securing member is made to swell, applying pressure and heat to the surface of the fabric, the temperature applied being below the deterioration point of the fabric, the application of pressure forcing the securing member into the fabric thereby forming a recess within said fabric and the application of heat contracting the swollen portion of the fabric about the securing member so that the securing member is held to the fabric.

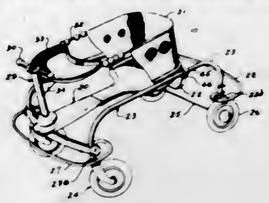
2,662,578
MANUFACTURE OF WINDOW BAGS
Daniel Belcher, Minneapolis, Minn., and Russell J. Williams, Richmond Heights, and Milton J. Heimos, Lemay, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application July 7, 1949, Serial No. 103,510
7 Claims. (Cl. 154—36)

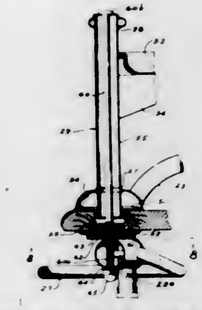


3. Apparatus for forming a continuous composite web consisting of two individual webs having registering window openings therein spaced at intervals along their length with patches of window-forming material sandwiched between the plies in position closing the window openings and adhered to the individual webs, comprising a support for a supply roll of one of said webs, a combining guide over which said one web may be pulled from the supply roll at a predetermined speed, a cutter for cutting the window openings in said one web as it is pulled from the supply roll, a coating unit for applying adhesive in a pattern around the window openings in said one web as it travels from said cutter to said combining guide, a strip feeder for continuously feeding a strip of window-forming material toward said one web at a speed lower than the speed of the web, a cutter for transversely severing the strip into patches shorter than the spacing of the window openings, a patch feeder located to receive the patches of window-forming material severed from the strip and to speed them up and feed them into position over the window openings in said one web as they travel over the combining guide, a support for a supply roll of the other of said webs, and a second combining guide over which both webs may be pulled and at which they may be combined after the patches have been applied to said one web with their window openings in register.

2,662,579
BABY WALKER
Alvin P. Douglas, Cleveland, and Leonard J. Walters, Shaker Heights, Ohio, assignors to The Murray Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application May 20, 1950, Serial No. 163,253
8 Claims. (Cl. 155—22)

1. In a vehicle such as a baby walker and the like having a pair of tubular side members connected by front and rear transverse members in the vehicle frame, a seat structure comprising a seat member extending longitudinally of the vehicle over the said transverse members; a plurality of helical compression springs interposed between the said rear transverse member and the seat member, each of said helical springs being attached to said rear transverse member and to said seat member; bolt means securing the forward end of said seat member to said front transverse member; and an elastic washer member interposed on said bolt means between said front





transverse member and said seat member at the middle of said front transverse member.

2,662,580
ROCKER ATTACHMENT UNIT FOR CHAIRS
Louis Gottfried, New York, N. Y.
Application April 27, 1950, Serial No. 158,427
5 Claims. (Cl. 155—74)



2. A rocking chair comprising upwardly extending leg portions, the lower ends of which extend into horizontal base-portions adapted to engage the ground when the chair is used as a non-rocking chair, a base comprising a pair of rockers and means for holding the said rockers in fixed spaced relation including at least one cross-brace disposed between the said rockers, two parallel channel members disposed longitudinally on the said base and receiving the said horizontal base-portions of the said chair, and additional means on the said base for releasably retaining said horizontal base-portions in the said channel members.

2,662,581
ROCKER ATTACHMENT UNIT FOR CHAIRS
Louis Gottfried, New York, N. Y.
Application January 13, 1953, Serial No. 331,074
5 Claims. (Cl. 155—74)

1. A rocking chair having at least one pair of upwardly extending leg portions, having at their lower ends a supporting structure including a pair of crosswise disposed horizontal portions, a base comprising a pair of rockers and crosswise disposed means for holding the said rockers in fixed spaced relation and having their ends secured thereto and the said base releasably supporting the said crosswise disposed horizontal

portions of the supporting structure, and at least one of the said crosswise disposed horizontal portions of the supporting structure cooperating by interlocking engagement with the said crosswise disposed means of the said base.

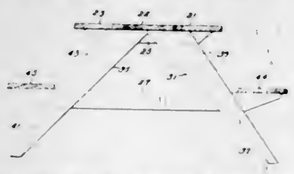


2,662,582
RECLINING ARTICLE OF FURNITURE
Anton Lorenz, Buffalo, N. Y.
Application May 26, 1949, Serial No. 95,414
25 Claims. (Cl. 155—106)



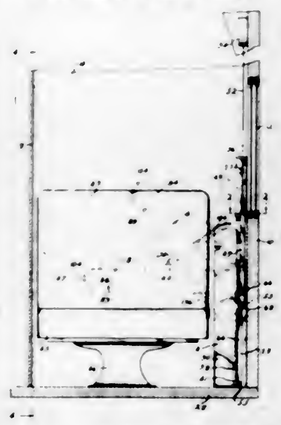
1. A reclining article of furniture comprising: a support, a pair of pivotally connected links including a seat and a back-rest, a lower link arranged below the plane of the seat, said lower link being swingably mounted at an intermediate point of its length upon said support, the front end portion of said lower link being shiftably engaged with the front end portion of said seat, the rear end portion of said lower link being pivoted to said back-rest, and guiding means connected to said support and engaged with at least one link of said pair of pivotally connected links.

2,662,583
RECREATION TABLE
William D. Coe, Milton-Freewater, Oreg.
Application March 11, 1952, Serial No. 275,881
5 Claims. (Cl. 155—124)



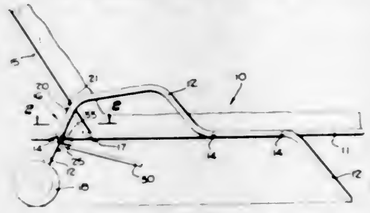
1. A recreation table comprising four identical leg members, a top member and a seat member, each of said leg members comprising two identically sized leg boards and two identically sized spacer boards, the leg boards of each of said leg members being registered in outline and spaced the thickness of one of said spacer boards, said spacer boards being positioned between said leg boards in edge register with one edge of said leg boards, one of said spacer boards being positioned with one of its ends in register with the lower ends of said leg board, the other of said spacer boards being spaced a pre-determined distance from said one spaced board longitudinally of said leg boards, said top member comprising a top board and a pair of tie boards secured transversely of said top board in edgewise abutment with the underside thereof, two of said leg members being secured to each of said tie boards with the leg boards of each of said leg members located one on each side of its respective tie board, said seat member comprising two stretcher boards and two seat boards, each of said stretcher boards being positioned horizontally through a pair of said leg members in the plane of the tie board to which said pair of leg members is attached, said stretcher board being surrounded in said leg member by the leg boards and spacer boards of said leg member, the ends of said stretcher board extending transversely of said top board beyond said pair of legs, each of said seat boards being positioned on and secured to the similar ends of said two stretcher boards, whereby both ends of said leg boards and said spacer boards, both edges of said tie boards and said spacer boards, and both flat surfaces of said top board and said seat boards are parallel, said top board is parallel to said seat boards and said stretcher boards are parallel to said tie boards.

2,662,584
SLEEPING CAR BED
Otto A. Kuhler, Wheel Hill, Blauvelt, N. Y., and William E. Burnett, Montclair, N. J., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application January 14, 1948, Serial No. 2,266
4 Claims. (Cl. 5—140)



1. In combination with a movable bed, means for mounting and guiding the bed for swinging movement about one side between a vertically extending stored position and a horizontally extending occupancy position comprising, suspension links pivotally connected at their lower ends to intermediate portions of the ends of the bed offset from the center of gravity of the bed when in stored position, lower vertical guideways having bearing portions intermediate the ends thereof, means adjacent the extremities of the said one side of the bed and projecting beyond the center of gravity thereof when in stored position arranged in said lower guideways, upper vertical guideways, means on the upper ends of said links arranged in the upper guideways, means for releasably securing the bed in either of said positions, and spring means acting to draw said means on the upper ends of said links upwardly into engagement against the tops of said upper guideways upon release of the bed from either of said positions causing said means projecting from the said one side of the bed to engage against said lower guideway bearing portions and said bed to be tilted about its guided side to and supported in an intermediate inclined position.

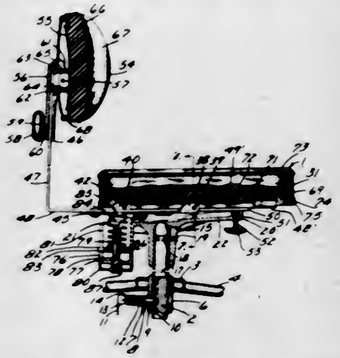
2,662,585
SEAT WITH ADJUSTABLE BACK REST
Gilbert J. Ozenne, Manhattan Beach, Calif., assignor to Doak Aircraft Company, Inc., Torrance, Calif., a corporation of California
Application June 10, 1949, Serial No. 98,247
3 Claims. (Cl. 155—162)



1. In a chair or lounge of the character described, a horizontal frame member, a friction member pivotally mounted on said frame member, a back rest pivotally mounted on said frame member, a shaft having one of its ends pivotally mounted on said back rest with the body of said shaft passing through a friction aperture in said friction member pivotally mounted on said frame, and a manually operable lever rigidly attached to said friction member and extending below a side of said frame member where it is conveniently accessible to an occupant of said chair or lounge to change its position to break the frictional connection between said shaft and said friction aperture, said friction member and attached lever being movable to different positions corresponding to different adjusted positions of said back rest whereby said lever follows the motion of said back rest and the position of the lever serves as an indication of the position of the back rest, said attached lever extending forwardly of the pivoting axis of said friction member whereby said lever is required to be moved upwardly to allow said back rest to descend.

2,662,586
RESILIENT MOUNTING FOR CHAIR BACKS
Roy A. Cramer, Kansas City, Mo.
Application July 28, 1950, Serial No. 176,409
4 Claims. (Cl. 155—164)

1. A resilient mounting for a back for a chair having a support and a channel-shaped frame member having portions extending forwardly and rearwardly of said support including, a channel member pivotally mounted to said frame forwardly of said support, a pin extending transversely across said channel-shaped member rearwardly of the support and spaced from the bottom thereof, a housing depending from the rearwardly extending portion of the frame, a coil spring in said housing having its upper end engaging against the lower side of said channel member, means for adjusting the tension of said spring in said housing, said chair back including an angle-shaped arm having its horizontal portion engaging in said channel member underneath said cross pin, and means adjustably securing the horizontal portion of said arm in said first named channel member whereby back pressure on said back member will cause the channel member to be urged against the spring tension of said spring and the cross pin preventing movement of the arm upwardly.

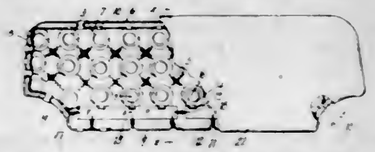


2,662,587
CHAIR FOR AERIAL SKI LIFTS
Alexander McIlvaine, New York, N. Y.
Application November 18, 1949, Serial No. 128,217
3 Claims. (Cl. 155—171)



1. An aerial ski lift including a chair having a seat and a back rest, an arm pivotally connected to a member fixed relative to the chair and said arm extending downward below the seat but movable forward and upward above the seat, a foot rest carried by said arm, and means connected to said arm for moving it about its pivot to raise the foot rest forward and upward above the seat whereby clearance below the seat is increased and users may have free access to the seat while wearing skis.

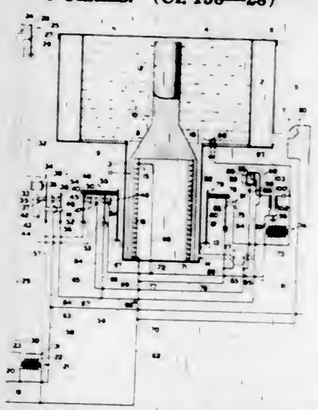
2,662,588
CUSHION SPRING STRUCTURE
William A. Clark, Detroit, Mich.
Application September 8, 1952, Serial No. 308,308
8 Claims. (Cl. 155—181)



1. A spring structure comprising a supporting frame and body springs carried thereby, a top frame carried by certain of said body springs and comprising fixedly connected front and end members, and a rear rail fixedly connected to the end members and having spaced inward offsets there-

in, a plurality of flexible sheet metal upholstery supporting strips disposed between said body springs and said rear rail in spaced end to end relation with their outer ends in spaced relation to the end members of said top frame, clips securing the front edges of said upholstery supporting strips to the top coils of adjacent body springs, extension springs connecting the outer ends of said upholstery supporting strips to the end members of the frame, an extension spring connecting the adjacent ends of said upholstery supporting strips, and extension springs connecting the rear edges of said upholstery supporting strips to said rear rail with their rear ends engaged in the said offsets of the rail.

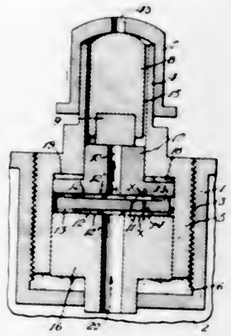
2,662,589
ELECTRICAL CONTROL SYSTEM FOR LIQUID FUEL BURNERS
Fred B. Aubert, Detroit, Mich.
Application September 18, 1947, Serial No. 774,825
9 Claims. (Cl. 158—28)



1. In a control system for a liquid fuel burner an electrically controllable valve for controlling the supply of fuel to said burner, heating means for vaporizing fuel in said burner prior to ignition thereof and including electrical heating means therefor, an electric spark ignition for said burner, means responsive to the generation of a predetermined temperature by said electrical heating means and operable to cause the energization of said ignition, means responsive to the occurrence of ignition sparks in said burner and operable to open said fuel supply control valve, means responsive to the occurrence of a predetermined temperature in said burner and operable to de-energize said ignition and said electrical heating means and to maintain said fuel supply control valve, relay switch means controlling energization of said system, a room thermostat controlling operation of said relay switch means, and said last-named responsive means including switch means opened by response to said predetermined temperature to prevent the initial energization of said relay switch means while said burner is hot.

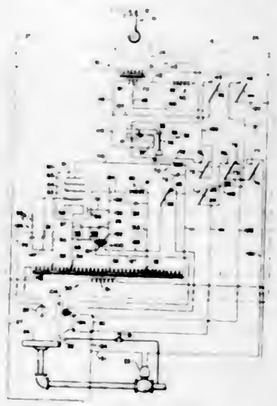
2,662,590
GAS BURNER AND FLOW RESTRICTOR
Otto Reich, Vienna, Austria, assignor of one-half to Julius Vignati, Vienna, Austria
Application June 29, 1948, Serial No. 35,761
Claims priority, application Austria July 14, 1947
6 Claims. (Cl. 158—99)

1. In a gas burner, particularly for use in pocket lighters, means forming an areal passage for converting liquefied combustible gas into gas, an inlet channel for conducting the liquefied gas from a source of fuel supply to said gasifying area, an outlet channel for conducting the gas from the gasifying area to the burner, said means enclosing a chamber, and at least one insert arranged within said chamber so as to form said areal passage between the outer surface of the insert and the chamber-confining wall, said means also including nondeformable spacing elements located between the surfaces confining the



areal passage to hold said surfaces at invariable distances from each other, a major portion of the areal passage being of a width of capillary magnitude, said areal passage being so arranged that all material passing from one of said channels to the other must pass through said portion, the inlet channel opening directly into the areal passage, the areal passage being arranged to conduct the liquefied gas as delivered by the inlet channel divergently to all peripheral portions of the upstream side of the insert and convergently to the outlet channel, thereby causing the gasification.

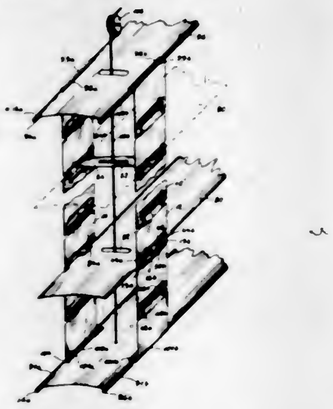
2,662,591
BURNER CONTROL APPARATUS
Henry L. Hanson, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 3, 1950, Serial No. 153,730
13 Claims. (Cl. 158—128)



1. Burner control apparatus for use with a burner having igniting means, a pilot valve and a main control valve, the combination comprising, a first control relay, a source of power, an energizing circuit for said relay including said

source adapted to be completed by means indicating a need for burner operation, means controlled by said first relay arranged to connect the igniting means to said source of power, control means comprising a second relay adapted to respond to the proper operation of said igniting means, said control means arranged to effect operation of the pilot valve, flame responsive means comprising a third relay adapted to respond to a burner and pilot flame, means including said flame responsive means rendering said main valve operative and maintaining the pilot valve operative upon the presence of a pilot flame, timing means connected to said control means for energizing the pilot valve for a number of relatively short periods in the absence of a flame, and further timing means connected in controlling relation with respect to said control relay for rendering said relay ineffective after said first named timing means has operated a number of times.

2,662,592
VENETIAN BLIND
Johannes Harald Bierlich, Copenhagen, Denmark
Application February 27, 1951, Serial No. 212,849
7 Claims. (Cl. 160—173)



1. In a Venetian blind: a plurality of slats, a supporting ladder for said slats comprising link chains said chains composed of links in portions of two links between each slat and hingedly joined in edge-to-edge relationship, each hinge joint comprising two links angularly movable relative to each other, at least one of said two links having formed a transverse slot adjacent and spaced from the terminal edge of said link and the other link having an edge portion extending through said slot and secured in said extending position for hinging said two links, said extending edge portions being arranged alternately from opposite sides along the link chain, slat supporting members extending between said link chains and projecting through said link chains at every second hinge joint substantially aligned with the turning axis thereof and secured in said projecting positions.

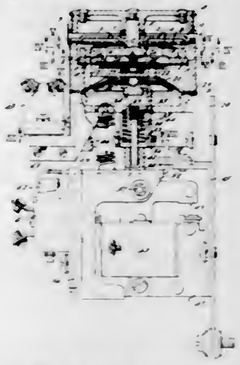
2,662,593
VENETIAN BLIND PARTS
Brooks Walker, Piedmont, Calif.
Application December 29, 1947, Serial No. 794,221
2 Claims. (Cl. 160—178)

1. A Venetian blind slat having edge notches, a flexible slat spacing element having two cross members joining the side members of said slat spacing element, said slat resting on both of said cross members at one slat spacing station, a single spring clip carried jointly by both said cross members when said slat is removed, said clip adapted to yieldably engage said slat ad-



jacent to the outer edges thereof, said clip having slat engaging ends, said slat engaging ends remaining substantially undistorted when moved to the slat engaging or slat disengaging position through the yieldable action of the main portion of said spring clip.

2,662,594
TIME DELAY RELAY
Carl A. Schaefer, Milwaukee, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application March 24, 1952, Serial No. 278,283
16 Claims. (Cl. 161—1)



1. In a timing device comprising a variable volume chamber and means movable to change said chamber volume and effect a control function, means for controlling the rate of movement of said movable means to determine a timed period comprising, a pair of relatively movable members each having both an aperture extending therethrough and at least one flat surface, a capillary groove in one of said surfaces, said groove communicating with one of said apertures, the other of said apertures communicating with any and all selected portions of said groove, means maintaining said surfaces in close engagement, means for moving one of said relatively movable members to effect a sliding movement between said flat surfaces, and thereby positioning a stepless, continuously varying length of said capillary groove between said apertures.

2,662,595
TIMER CONSTRUCTION
Kurt K. Neumann, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application July 6, 1946, Serial No. 681,740
2 Claims. (Cl. 161—23)

1. A timer including a clock mechanism, an element movable between a stop position, an in-

termediate cocked position, and a tripped position, a spring urging said element toward said tripped position, a supporting member, a rotatable shaft extending through said member, a latch pivotally connected to said member in spaced relation to said shaft and having an elongated opening adapted to loosely fit said shaft and permit limited pivotal movement of said latch, said latch having a surface adapted to engage said element when said element is in the tripped position, a portion adapted to support said element when in the cocked position, and a cam connecting with said portion adapted to lift said element from said cocked position to said stop position, spring means effective to pivot said latch



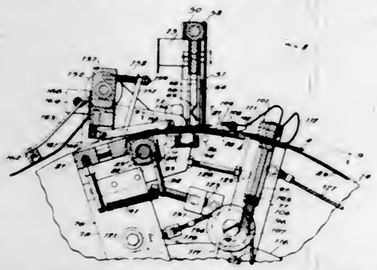
into position to support said element when said element is in the cocked position, a cocking and tripping member secured to said shaft for rotation therewith and including means effective, upon rotation of said shaft in one direction, to raise said element to a cocked position, means providing a lost motion connection between said cocking and tripping element and said latch and effective upon continued rotation of said shaft in the same direction, to pivot said latch in a direction to cause said cam to lift said element to said stop position, and means operable in response to the movement of said element to said stop position for stopping operation of said clock mechanism.

2,662,596

BOBBY PIN CARDING MACHINE

Ruth K. Weaver, Chicago, Loren M. Wingblade, Mount Prospect, and Lewis E. Thatcher, Berwyn, Ill., assignors to Gaylord Products, Incorporated, Chicago, Ill., a corporation of Delaware

Application October 21, 1948, Serial No. 55,722
15 Claims. (Cl. 163—8)



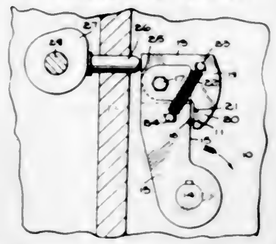
4. In a machine for transferring bobby pins from an oven wire onto flexible cards formed with bobby pin receiving apertures, a frame, a front card holder mechanism mounted for movement on said frame to receive and clamp one end of a flexible card, a rear card holder mechanism mounted on said frame to receive and clamp the other end of the flexible card, means to support an oven wire carrying a plurality of bobby pins disposed in a common plane, common means to move said front and rear card holder mechanisms relative to said oven wire supporting means to cause one leg of each bobby pin to pass through the apertures of said flexible card and then to strip the bobby pins from the oven wire, abutment fingers mounted on said frame to engage the loop ends of the bobby pins to yieldably resist displacement of said bobby pins from the oven wire while the legs of the bobby pins are being inserted through the apertures in said flexible cards, means operable to disengage and remove a flexible card with bobby pins thereon from said front and rear card holder mechanisms, means to move said bobby pins along said oven wire to form spaced groups of abutting bobby pins, said last mentioned means including a fork member formed with wedge-shaped teeth movable in a plane normal to the oven wire to further move bobby pins along the oven wire to form groups of abutting bobby pins, and means to actuate said fork member relative to said oven wire prior to movement of said card holder mechanisms.

2,662,597

MEANS FOR SEVERING OR SEVERING AND CONVEYING LENGTHS OF WIRE OR SIMILAR STOCK

Alfred George Ballard, William Carlyle Dent, Dennis George Broscomb, and Alexander Basil Watt, Smethwick, England, assignors to G. K. N. Group Services Limited, Smethwick, England, a British company

Application April 18, 1950, Serial No. 156,532
6 Claims. (Cl. 164—41)



1. Severing means for severing stock fed axially through a die, comprising: a cutter movable in a plane perpendicular to said feeding axis, said cutter being movable into holding engagement with said stock; a supporting member pivotally connected to said cutting member and rotatable into holding engagement with said stock on a side thereof opposite to that engaged by said cutter for preventing bending of said stock during the severing thereof; and operating means for exerting a force on said supporting member directed along a line spaced from the rotational axis of said pivotal connection for causing rotation of said supporting member to engage said stock accompanied by severing movement of said cutter produced by action of said force on said pivotal connection.

2,662,598

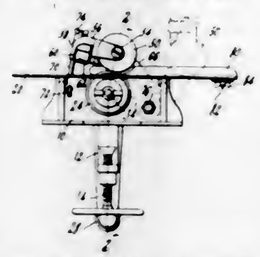
MULTIBLADED DISK KNIFE SLITTING MECHANISM

Howard A. Burdwood, Portland, Maine

Application December 10, 1947, Serial No. 790,765
1 Claim. (Cl. 164—60)

A slitting mechanism comprising a frame, a horizontal work table with an aperture secured

on said frame, a multi-bladed disc-knife mounted below said table for rotation about a horizontal axis, said knife projecting up through said aperture slightly above the level of the table, a rotatable shaft journalled in said frame and carrying said knife, an operating crank in said shaft, a bracket pivotally secured at one end to said frame at one side of said shaft and extending above and beyond said shaft to the other side thereof, a tension member attached at one end to said frame on said other side of



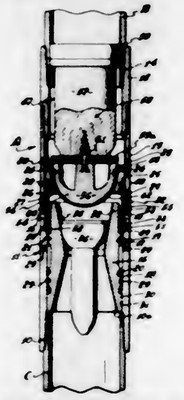
the shaft and adjustably attached to the free end of the bracket, an arm projecting from said bracket out over the table, a press roll supported on said knife and rotatable about an axis parallel to that of the knife, supporting means operatively connecting said press roll and arm whereby rocking movement of said bracket about its pivot moves said press roll to or from contact with said knife, and means on said tension member operable to draw the free end of said bracket downward so as to vary the pressure of said press roll against said knife.

2,662,599

WELL CASING CEMENTING PLUG AND VALVE DEVICE

Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Original application January 12, 1948, Serial No. 1,843. Divided and this application November 14, 1949, Serial No. 127,187
4 Claims. (Cl. 166—1)



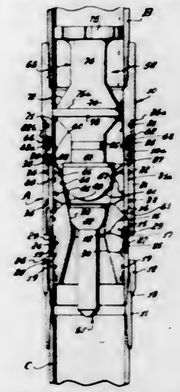
1. In apparatus of the character described: an imperforate well cementing plug having a packing adapted to slidably seal with the wall of a well casing; and a valve head rigidly secured to and depending substantially below the lower end of the plug and having a generally hemispherical downwardly facing surface adapted to seal against a companion seat in the casing.

2,662,600

WELL CEMENTING PLUG

Reuben C. Baker, Coalinga, and John R. Baker, Pasadena, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Original application January 12, 1948, Serial No. 1,844. Divided and this application November 14, 1949, Serial No. 127,188
8 Claims. (Cl. 166—1)



1. A top cementing plug, including a forward rigid valve head portion and an elastic rearward portion secured to said head portion and having an inwardly compressible main body, said body having an annular flange adapted for slidable sealing engagement with the wall of a well conduit, and a trailing portion having an outer surface converging in a direction leading away from said head portion to be acted on by hydraulic pressure to compress said body inwardly and remove said flange from sealing engagement with the wall of the well conduit.

2,662,601

INTERNAL ANCHOR DEVICE FOR WELLS

Edgar W. Bagnell, Glendale, Calif., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex., a corporation of Delaware

Application March 9, 1950, Serial No. 148,725
5 Claims. (Cl. 166—1)



4. An internal anchor device for wells comprising a body structure, at least one swingably mounted dog on the body structure spring-urged outwardly toward the walls of the well bore, a sleeve rotatably carried by the body structure and

surrounding the dog and being formed with a slot circumferentially spaced from the dog and adapted to be brought into registry with the dog to release the same for outward movement, and means on the sleeve frictionally engageable with the walls of the well bore to retard rotary movement of said sleeve upon rotation of the body structure to cause the slot to be brought into registry with the dog to release said dog.

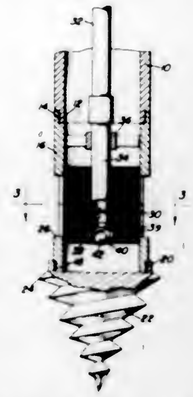
2,662,602
MEANS FOR GUIDING, FLOATING, AND CEMENTING WELL CASING IN BORED HOLES
Sylvester B. Schnitter, Dallas, Tex., assignor to L. L. Rector, Tarrant County, Tex.
Application June 27, 1947, Serial No. 757,452
10 Claims. (Cl. 166—1)



1. In a device for cementing well casing in the bore of a well, a collapsible plug made of resilient material having a circumferential surface on the outer periphery thereof engageable with the inner wall of the well casing when the plug is in normal undeformed condition, said plug having a hollow internal bore and being provided with an opening in each end thereof communicating with said bore, which openings are adapted to receive closure members; a non-compressible fluid occupying said hollow internal bore; closure members initially disposed in said openings so as to confine said fluid, one of which closure members is adapted to be expelled from its opening whenever the plug is initially materially deformed by pressure applied thereto, whereby, some fluid may be expelled from the internal bore of said plug and some fluid may be drawn back into said bore when the plug assumes its original shape.

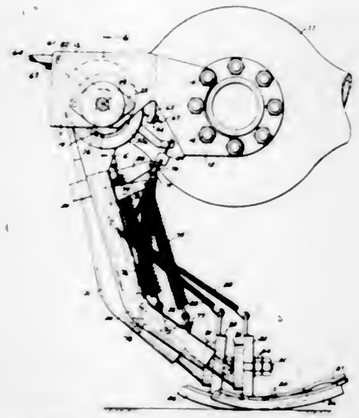
2,662,603
WELL DEEPENING APPARATUS
Edwin E. Jones, North Stonington, Conn.
Application June 2, 1950, Serial No. 165,763
2 Claims. (Cl. 166—5)

2. A well deepening apparatus comprising a casing adapted to enter a well and having a lower end, a barrel threaded to the lower end of the casing and having a plurality of screened openings therein, a supply pipe disposed axially within the casing and having a lower end terminating at the lower end of the casing, an extension for the pipe disposed axially within the barrel and having an upper end coupled to the lower end of the pipe, a spider member having arms fixed to the inner periphery of the barrel at the upper end thereof and a ring-like hub receiving the extension, said barrel having a lower open end, and a solid auger removably secured to and closing the open lower end of the barrel, said barrel having bars defining the vertical limits of



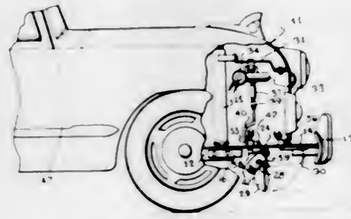
said openings, each of said bars having a pair of exposed vertical edges of which pair one edge is beveled in the direction the auger is to be rotated to restrict entrance of dirt into the barrel.

2,662,604
PARKING ATTACHMENT FOR AUTOMOBILES
Eldon C. Henderson, Paso Robles, Calif.
Application March 17, 1950, Serial No. 150,215
26 Claims. (Cl. 180—1)



1. A parking device for displacing a vehicle in a desired direction comprising, in combination: a support structure adapted to be mounted on the vehicle above the ground; a plurality of ground-engaging walking arms having lengths to extend from the ground obliquely upwards in the said direction to the support structure having connections with the said structure for free rotation and for retraction from and projection toward the ground; actuating means on said support structure acting on said arms for sequentially retracting and projecting the arms without applying a motivated torque thereto, whereby the distances from the lower ends of the arms to the support structure are alternately increased and decreased; and resilient means acting on said arms and reacting on a part of the device for applying a yieldable downward torque on said arms at least during parts of their respective cycles of operation in which they are respectively retracted, whereby each lower end is urged pivotally against the ground when retracted and the said lower ends are advanced alternately along the ground in the said direction when said actuating means is operated.

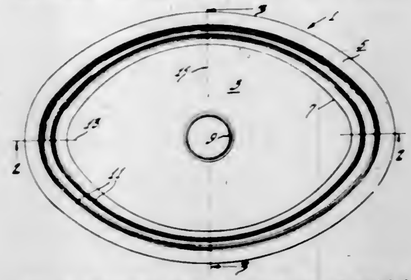
2,662,605
RETRACTABLE FOG-BEAM LIGHT FOR VEHICLES
Melvin L. Riggs, Logan, W. Va.
Application July 21, 1950, Serial No. 175,063
2 Claims. (Cl. 180—1)



1. In combination with an automotive vehicle having a frame, and bumper supporting bars extending forwardly from said frame and one at each side of the latter, a retractile fog lamp assembly comprising brackets secured one to each of said bumper supporting bars, a shaft journaled at its ends in said brackets, a plurality of arms rigidly secured to and projecting radially from said shaft at locations spaced apart therealong, fog lamps rigidly secured to the outer extremity of certain of said arms and said certain arms depending from said shaft one adjacent each end of the latter, each of said lamps secured to said certain arms disposed in a forwardly facing position when said certain arms depend from said shaft whereby said lamps are movable by rotation of said shaft between an extended position in which they are disposed in a forwardly facing position directly below said shaft and a retracted condition in which they are disposed in upwardly facing position forwardly of said shaft, said means comprising a bracket bar carried by said frame above said shaft, a gear carried by said bracket bar, a reversible electric motor connected to said gear for driving the latter in opposite directions, variable length mechanisms connecting said gear to one of said arms on said shaft disposed intermediate the length of the latter for extending said fog lamps upon rotation of said gear by said motor in one direction and retracting said fog lamps upon rotation of said gear by said motor in the opposite direction, and an energizing circuit for said motor.

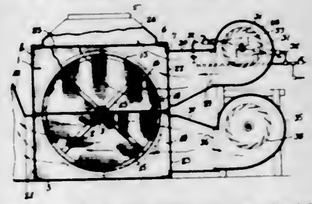
2,662,606
ELLIPTICAL CONOIDAL SOUND REPRODUCING DIAPHRAGM
Robert E. Hurley, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1950, Serial No. 141,465
8 Claims. (Cl. 181—32)

1. A cone-type sound reproducing diaphragm having an elliptical base periphery and a flexible collar having a radially corrugated portion extending from said base periphery, the width of the radially corrugated portion of said collar increasing in dimension from the portion thereof in the region adjacent the minor axis of said base periphery to the portion of said collar in



the region adjacent the major axis of said base periphery.

2,662,607
ROTATING BED ADSORBER
Edward L. Moragne, Houston, Tex., assignor of one-third to Milton J. Guiberteau and one-third to Herbert L. Reynolds, both of Houston, Tex.
Application July 22, 1950, Serial No. 175,312
3 Claims. (Cl. 183—4.6)



1. Apparatus for conditioning a fluid medium such as air and the like, comprising, a shaft, means for rotating said shaft, a plurality of generally annular drums having perforate ends axially spaced along said shaft and rotatable therewith, a body of granular desiccant material confined within each of said drums, a casing enclosing all of said drums, sealing means for sealing between the periphery of each of said drums and said casing, partition means comprising plate members extending transversely of said casing between each pair of said drums and generally diametrically thereof into sealing engagement with the opposite walls of said casing to thereby define two series of compartments on opposite sides of said partition means enclosing separate segments of said drums and their confined bodies of desiccant materials, the compartments of each series communicating with each other through the ends of the segments of said drums enclosed within the respective compartments, alternate compartments of each of said series having inlet openings and the intervening compartments of each of said series having discharge openings, separate air-supply conduits connected to said inlet openings of each of said series of compartments, and separate air discharge conduits connected to said discharge openings of each of said series of compartments.

2,662,608
ELECTROSTATIC PRECIPITATOR
Arnold C. Fields, Medfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 23, 1950, Serial No. 181,043
7 Claims. (Cl. 183—7)

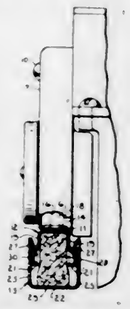
1. An electrostatic precipitator having a gas inlet and a gas outlet, comprising an ionizer wire

within said precipitator adjacent said inlet, five equally spaced-apart substantially parallel collector plates between said wire and outlet, the outermost of said plates having upstream portions extending past said wire on opposite sides thereof towards said inlet and forming non-discharging ionizer electrodes, the central one of said plates extending in alignment with said wire and having an upstream edge spaced a substantial distance from said wire, the other two



of said plates having upstream edges extending substantially beyond said edge of said central plate towards said inlet and extending parallel to and adjacent said wire, means for insulating said other plates and wire from said outermost and central plates, and means for connecting said other plates and wire to a terminal having one polarity of a direct current source, and for connecting said outermost and central plates to a terminal of said source having the opposite polarity.

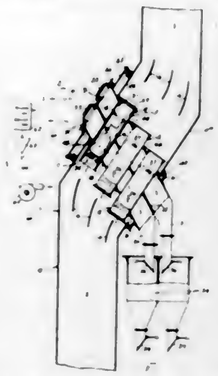
2,662,609
AIR FILTER
Fred A. Krohm, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Application September 19, 1949, Serial No. 116,530
1 Claim. (Cl. 183—44)



A filter device for fluid comprising an inner cup having a bottom wall, side walls and end walls, an opening provided in the bottom wall of the cup through which filtered air can circulate, an outer cup having a closed bottom wall, side walls and end walls, abutment means provided on the cups and located substantially between the respective side walls of the cups detachably locking the cups together with the bottom wall of the outer cup spaced from the bottom wall of the inner cup, a filter supported by the cups and engaging the bottom walls thereof, the side walls of the outer cup being arranged in spaced apart relationship to a portion of the filter and the side walls of the inner cup to provide parallel ducts through which fluid can circulate into the filter.

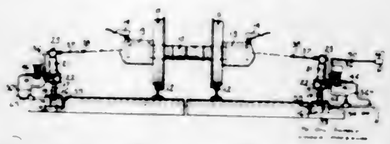
2,662,610
APPARATUS FOR CENTRIFUGAL SEPARATION OF SUSPENDED PARTICLES
Oswald X. Heinrich, Philadelphia, Pa.
Application August 4, 1950, Serial No. 177,622
4 Claims. (Cl. 183—80)

1. In apparatus for separating suspended particles from a stream of gas by centrifugal action, the combination comprising: a fixed guide member; a cylindrical separating chamber slidable endwise into the guide member and having a gas inlet at one end and an annular end wall at the other end, the chamber having in a side wall an opening registrable with an opening in the guide member to provide a particle outlet for separated material; means within the chamber to produce a swirling motion of the gas stream; a gas outlet member having a cylindrical



section projecting inwardly of the separating chamber from said end wall and spaced from the side wall of the separating chamber, and having a frusto-conical section flaring outwardly beyond said end wall; and a particle collecting member partially surrounding the guide and separating chamber to receive material discharged through the particle outlet.

2,662,611
CAR WHEEL LUBRICATOR
Clemence W. Fisher, West Haven, Conn.
Application September 12, 1949, Serial No. 115,138
9 Claims. (Cl. 184—2)



1. In a car-wheel lubricating device, a pair of spaced supports, one designed to be positioned on each side of a supporting track, a substantially vertical shaft oscillatably mounted in each of said supports, means connecting said shafts whereby oscillation of one effects oscillation of the other, a discharge nozzle member supported from each of said shafts and directed generally toward the track, a valve mechanism associated with each of said nozzle members to control the discharge therethrough, a handle member connected with one of said nozzles to effect the oscillation of both thereof, and means supported by said handle for controlling both said valve mechanisms.

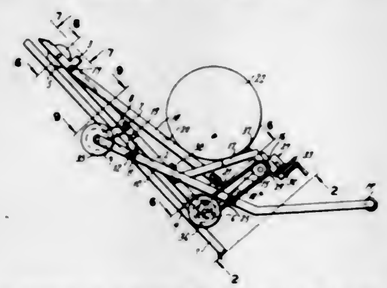
2,662,612
SPRING MOTOR ASSEMBLAGE FOR CLOCKWORK MECHANISMS
Merritt Van Valkenburgh, Upper Nyack, N. Y., assignor to M. H. Rhodes Incorporated, Hartford, Conn., a corporation of Delaware
Application October 18, 1951, Serial No. 251,907
5 Claims. (Cl. 185—45)

1. Power means for a time movement comprising a volute wire coil spring having a generally circular cross section with adjacent turns partially overlapping each other, a pair of closure members disposed on opposite ends of said spring arranged to axially compress said spring into a generally circular body having radially



spaced annular hills and annular valleys, means on one of said closure members for securing one end of the spring against movement, and means secured to the other end of said spring for winding the same whereby energy is stored within the spring.

2,662,613
SKID DEVICE FOR UNLOADING TRUCKS
Joy Hendrix, Kirkwood, Mo.
Application February 23, 1951, Serial No. 212,330
3 Claims. (Cl. 187—10)



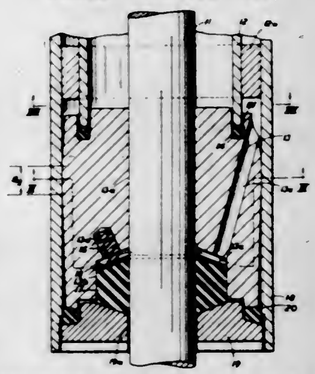
1. A device of the character described for loading and unloading heavy articles from trucks and the like, comprising, a dolly having a frame mounted on rollers adapted to roll on a skid-board, a resilient friction roller suspended from said frame so as to be positionable beneath the skid-board, lever mechanism connected to said friction roller operable to apply pressure against the skid-board between said frame rollers and said friction roller, whereby compression of said resilient roller may vary the frictional retardation offered thereby a load support flexibly mounted on said frame and connected to said lever mechanism to operate the same by the weight of the load on said support, and mechanism on said frame operable to control the rotation of one of said frame rollers.

2,662,614
STABILIZING SLED FOR DITCHERS
Ernest Victor Briscoe, Kerman, Calif.
Application June 24, 1950, Serial No. 170,184
1 Claim. (Cl. 188—7)



A stabilizing attachment for a ditcher having a longitudinal frame and wheels supporting the rear of the frame, said attachment including a pair of arms, horizontally coaxial pivots adapted to connect forward ends of said arms to the rear of the frame, said arms being bent vertically between their ends to provide front and rear portions lying in the same vertical plane at an obtuse angle to each other, the front ends of the front portions being mounted on said pivots and the rear ends of the rear portions being normally engaged in the ground over which the ditcher travels, said rear portions being inclined at a small acute angle to the ground when engaged therewith, a platform constituting a sled fixed on top of the rear portions of said arms and having its rear portion engaging on top of the ground to slide thereover upon sinking of the rear ends of the arms into the ground, said platform extending the full length of the rear portions of said arms from the bends to the rear extremities of the arms, and means to forcibly move the arms and platform between ground engaging position and a position clear of the ground.

2,662,615
HYDRAULIC SHOCK ABSORBER FOR VEHICLES
William Armstrong, Eastgate, Beverley, England, assignor to Armstrong's Patents Company Limited, Eastgate, Beverley, England
Application September 22, 1950, Serial No. 186,294
Claims priority, application Great Britain September 27, 1949
7 Claims. (Cl. 188—100)

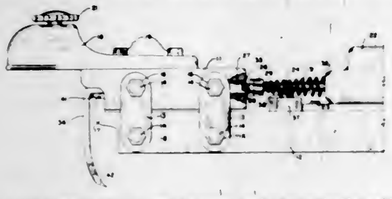


1. A piston rod guide for use in a telescopic hydraulic shock absorber for vehicles having an outer cylinder, an inner cylinder disposed within said outer cylinder and defining an annular reservoir space between the cylinders, a piston displaceable axially within the inner cylinder, and a piston rod fixed to the piston and extending axially out of said inner cylinder; said piston rod guide having a passage for the piston rod and adapted to guide and seal the piston rod in displacement along said passage, said guide also having an outer surface adapted to engage frictionally the outer cylinder over a portion of its length, said guide being tapered from said engaged portion toward each end so as to allow slight displacement of the guide relative to the axis of said outer cylinder.

2,662,616
AUTOMATICALLY ACTUATED TRAILER BRAKE
Joseph A. De Lateur, Denver, Colo.
Application October 10, 1949, Serial No. 120,537
2 Claims. (Cl. 188—112)

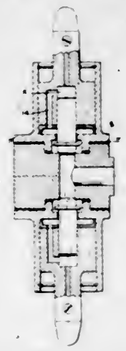
1. A brake actuating mechanism for trailers having hydraulic braking apparatus separate

from the braking system of the towing vehicle, comprising a frame member of said trailer for supporting said actuating mechanism, a hydraulic master-cylinder inclusive of an actuating rod adapted to be mounted on the frame member of the trailer and interconnected with the hydraulic brakes thereof, a slide block for reciprocal movement along said trailer frame positioned adjacent to the brake actuating rod of said master-cylinder, a spring member surrounding the actuating rod for urging said actuating rod into contact with said block, toggle links interconnecting said block to said frame, said links being of such length and placement as to limit the motion of said block toward said master-cylinder



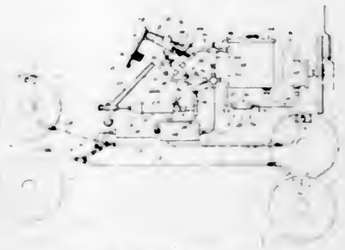
and said actuating rod being substantially aligned with the toggle link pivots on said slide block, a trailer hitch connected to said block, a spur member likewise connected to said block for causing relative movement of said block toward said cylinder for actuating the brakes of the trailer whenever the trailer becomes detached from the towing vehicle so that said spur comes into contact with the trailer supporting ground, and back-up means mounted on the frame member and movable into engagement with the slide block to prevent movement of said slide block on the frame at predetermined times, said means including a pivoted member movable from an inoperative position through approximately 90° to an operative position.

2,662,617
SELF-ADJUSTING WHEEL BRAKE
Robert Adolphe Paul Mougin, Paris, France
Application October 27, 1950, Serial No. 192,549
Claims priority, application France
November 5, 1949
8 Claims. (Cl. 188—152)



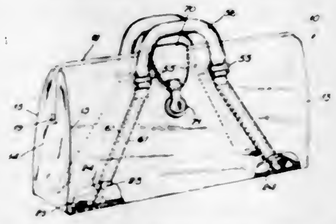
1. In a hydraulically controlled brake for vehicle wheels including a brake drum, a brake jaw cooperating therewith and a spring urging the same away from the drum, the combination of a cylinder including two covers provided each with a central perforation, a main piston adapted to reciprocate fluidtightly in said cylinder, including an axial projection passing fluid-tightly through the perforation in one cover and adapted to urge the brake jaw against the brake drum in antagonism with the action of its spring, said main piston being provided with a blind axial bore facing the second cover and with a channel connecting the inner end of said bore with a point of the surface of the main piston facing the second cover, an auxiliary piston adapted to reciprocate fluidtightly inside the bore of the first piston and including an extension adapted to reciprocate with a clearance in the perforation in the second cover and an abutment at the periphery of said extension adapted to engage, in its innermost position with reference to the main piston, the outside of the second cover, means for feeding temporarily a braking fluid under pressure through the perforation in the second cover into the chamber defined between the main piston and the second cylinder cover and thence through the channel in the main piston into the chamber defined in said bore between the auxiliary and main pistons until the main piston has urged the brake jaw into contact with the brake-drum and means cooperating with the auxiliary piston for closing the admission of braking fluid into the first chamber considered when the fluid feeding means are inoperative and the spring has urged the brake jaw and pistons back into their inoperative position.

2,662,618
PRESSURE-BOOSTING APPARATUS FOR VEHICLE HYDRAULIC BRAKE SYSTEMS
Ora E. Troyer, Hampton, Va.
Application May 29, 1952, Serial No. 290,777
3 Claims. (Cl. 188—152)



1. In combination with the engine of a vehicle, and with a hydraulic brake system of said vehicle including a master cylinder and wheel supply lines through which fluid is forced from the master cylinder responsive to foot pressure exerted by a vehicle operator, brake-pressure-additive apparatus comprising: a pump driven by said engine; a reservoir for pressure fluid connected in circuit with the pump for normal flow of fluid in a closed cycle therebetween; a hydraulic control valve disposed in circuit with the pump and reservoir and arranged to be normally open for normally allowing an unimpeded flow of fluid in said closed cycle; a four-way fitting also included as a part of said circuit and disposed between the valve and pump; a fluid flow line extending from said fitting, at a location between the valve and pump, to said wheel supply lines; a hydraulic control valve fluid supply line extending from the master cylinder to the hydraulic control valve, said valve including a piston arranged for closing of the valve responsive to pressure exerted thereagainst by fluid forced from the master cylinder through the hydraulic control valve supply line; whereby to cause fluid to be diverted from said closed cycle through the fluid flow line to the wheel supply lines for adding to the braking pressure applied to the wheel supply lines; a bypass line extending from said fitting; and a relief check valve communicating with said bypass line and with said circuit at a location between the hydraulic control valve and the reservoir, for bypassing a quantity of fluid from the pump to the reservoir in the closed condition of the hydraulic control valve.

2,662,619
BAG
Edward D. Zweigbaum, New York, N. Y.
Application April 20, 1949, Serial No. 88,677
6 Claims. (Cl. 190—50)



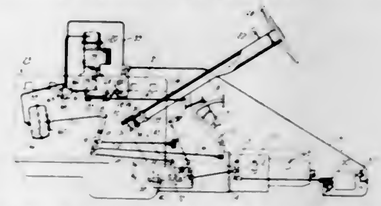
1. A bag having a bottom wall, side walls and end walls and being provided with a jaw frame at the top open end of the bag, a pair of similar symmetrical strips of springy material contacting the inner surfaces of the side walls of the bag, each side wall being formed with a pair of spaced horizontal aligned slots, said strips being formed with openings registering with said slots, fasteners passing through the openings in the strips and through said slots in the side wall, each fastener having a loop at the outside of the bag, rings engaging said loops and handles interconnecting the rings at each side of the bag.

2,662,620
BINDING FOR LUGGAGE SEAMS AND THE LIKE
Robert J. Vojta, Chicago, Ill.
Application October 20, 1950, Serial No. 191,205
3 Claims. (Cl. 190—54)



1. In a reinforced seam and the like, the combination of an elongated strip of relatively flexible material, said strip being generally T-shaped in cross section, the stem portion thereof being positioned between adjoining faces of a pair of sheets having co-extensive adjacent edges, with the head portion of the T being of a width to overlie such edges at both sides of the stem portion, and a flange integrally formed with said head portion along one free edge thereof, said flange extending in the same direction as said stem portion with the stem portion being greater in cross sectional length than the corresponding dimension of said flange, the flange marginally overlying the exterior face of the adjacent sheet to which the strip is applied whereby the edge portion of such sheet is completely enclosed thereby, and securing means passing through the respective sheets, stem portion and flange.

2,662,621
TRANSMISSION CONTROL MECHANISM
Richard H. Long, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 16, 1949, Serial No. 133,317
3 Claims. (Cl. 192—.092)

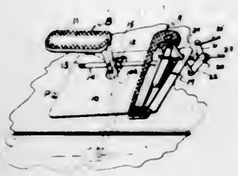


1. In an automotive vehicle provided with a three-speeds forward and reverse transmission, a friction clutch and an accelerator, means for operating the transmission and clutch including a double acting pressure differential operated motor for shuttling the transmission back and forth between its second and high gear settings, valve means for controlling the operation of said motor, a motor for operating the clutch, valve means for controlling the operation of the latter motor, and means for establishing the transmission in its low and reverse settings and for controlling the operation of both of said valve means including a manually operated shift lever, force transmitting means interconnecting said lever with the transmission to effect the low and reverse settings thereof, a selector switch mechanism for controlling the operation of both valve means, force transmitting means interconnecting the selector switch mechanism with the shift lever, both force transmitting means being so constructed and arranged that they are disconnected from each other when the shift lever is actuated to operate the selector switch mechanism, a transmission operated switch mechanism for controlling the operation of both valve means, a vehicle speed responsive governor operated switch mechanism operative to control the operation of both valve means, other electrical means for controlling the operation of the valve means including a source of electricity, a breaker switch operated by the clutch operating motor, and an electromagnetic means for controlling the operation of the valve means for controlling the operation of the transmission operating motor; the source of electricity, the breaker switch, and a part of the selector switch mechanism being electrically connected in series and a part of the governor operated switch mechanism and the electromagnetic means being electrically connected and electromagnetic means for controlling the operation of a part of the valve means for controlling the operation of the clutch operating motor, the source of electricity, the latter electromagnetic means, a part of the selector switch mechanism, a part of the transmission operated switch mechanism, the accelerator operated switch and a part of the governor operated switch mechanism being electrically connected together.

2,662,622
AUTOMATIC BRAKE AND ACCELERATOR COORDINATING DEVICE
Charles Howard Rodeback, San Pedro, Calif.
Application July 9, 1951, Serial No. 235,736
8 Claims. (Cl. 192—3)

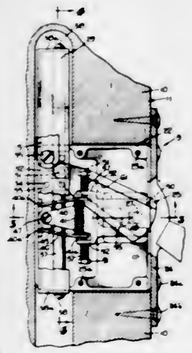
1. A brake and eccelerator coordinating device for a vehicle powered with an internal combustion engine having a brake pedal and accelerator

which includes: an elongated rigid member; means to pivotally support said member in a position to be moved by the downward movement of said brake pedal; movable means which when



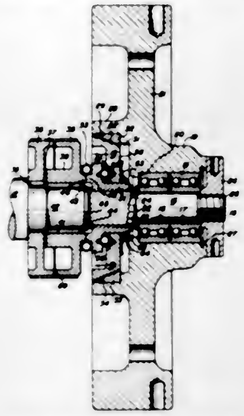
actuated lock said accelerator in an idling position; and means operatively associated with said member which actuate said movable means when said brake pedal is depressed.

2,662,623
JALOUSIE OPERATOR
Donald H. McGogy, Menlo Park, Calif., assignor to Dalmo Victor Company, San Carlos, Calif., a corporation of California
Application January 11, 1952, Serial No. 265,985
12 Claims. (Cl. 192—8)



1. A jalousie operator, comprising a case, a locking member slidably extending through said case and having means for attachment to a jalousie type window construction for operating the same, latching means for preventing movement of the locking member, having two releasing positions in either of which said locking member is released for movement, a release member pivotally mounted on the case and engageable with said latching means and adapted to be pivoted in one direction to move said latching means to one of its releasing positions and in the opposite direction to move said latching means to the other of its releasing positions, a lever pivotally connected to both the locking and release members for operating the same, operable upon pivotal movement in one direction to pivot said release member one way to release the locking member for movement in one direction, and operable upon pivotal movement in the opposite direction to pivot said release member the opposite way to release the locking member for movement in the opposite direction.

2,662,624
ANTIBACKLASH SERVO CLUTCH
James L. Giffen, Hudson, N. Y., assignor, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware
Application July 21, 1948, Serial No. 39,921
18 Claims. (Cl. 192—17)

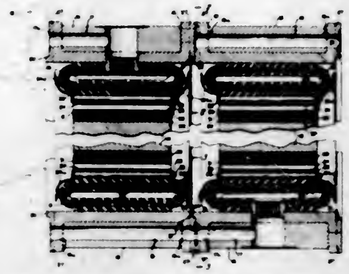


1. Clutch mechanism comprising a rotatable shaft, a brake drum fixed to said shaft, a brake drum rotatable freely about said shaft, means for applying a brake simultaneously to said drums, a sleeve slidably but non-rotatably mounted on said shaft, coacting inclined axially facing cam surfaces on adjacent ends of said rotatable brake drum and sleeve, a spring interconnecting said sleeve and rotatable brake drum normally urging such relative rotation of said sleeve and rotatable brake drum as to tend to axially displace said sleeve along the shaft relative to said rotatable drum due to the action of said cam surfaces, said sleeve and rotatable brake drum being held against such relative rotation by said brake, a thrust member rotatable and axially slidable on said sleeve, torque transmitting struts seated in opposed sockets on the sleeve and thrust member, a spring urging said thrust member into contact with said struts and sleeve but permitting limited separation of said sleeve and thrust member, a drive member rotatably mounted on said shaft, and coacting clutch surfaces on said drive member and thrust member.

2,662,625
ASSEMBLY FOR CLUTCHES AND BRAKES
Thomas L. Fawick, Cleveland, Ohio, assignor, by mesne assignments, to Federal Fawick Corporation, a corporation of Michigan
Application June 14, 1951, Serial No. 231,459
4 Claims. (Cl. 192—88)

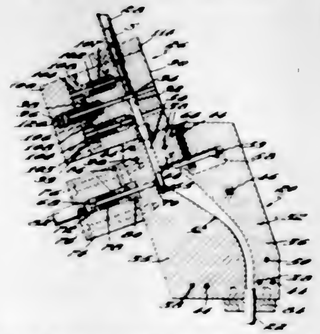
1. A structure of the character described comprising two relatively rotatable structures adapted for frictional engagement with each other, one of said structures comprising a torque-sustaining, fluid-distensible bag for effecting the frictional engagement by being distended, a mounting for said bag, and a set of wear-shoe assemblies individually mounted on said bag and having connection one to another only through said bag, the mounting for the bag being formed with passages for escape of air urged outward by centrifugal force incident to rotation of at least one of said structures and each of the wear-shoe assemblies being formed with a ventilating passage for flow of air between the wear shoe and

the bag, the structure including spark-deflecting means spaced from but extending along a side



of the bag for protection of the bag from sparks created by the wear shoes.

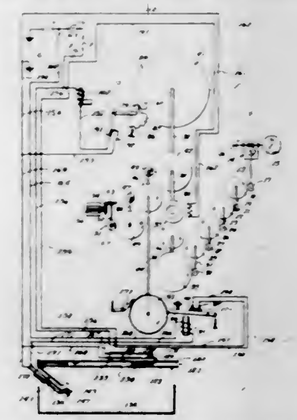
2,662,626
ORIENTING DEVICE
Harold J. Graham, Highland Park, and Paul F. Powder, Detroit, Mich., assignors to Graham Manufacturing Corporation, Detroit, Mich., a corporation of Michigan
Application February 17, 1950, Serial No. 144,728
9 Claims. (Cl. 193—43)



1. A device for orienting studs of the type having an extending tip portion of lesser diameter than its shank portion, comprising a stop for engaging one end of a stud, means for introducing a stud into said device so that a random end thereof comes to rest on said stop, a bifurcated member positioned adjacent either end of said stud as it rests upon the stop, the spaces between the tines of both bifurcated members being greater than the diameter of the tip portion and lesser than the diameter of the shank portion, and means for moving a stud from said stop to bring the shank portion thereof into contact with the tines of one of said bifurcated members and conjointly to cause the tip portion to pass between the tines of the other member thereby to release said stud from said device, tip portion foremost, irrespective of the orientation with which the stud was introduced into said device.

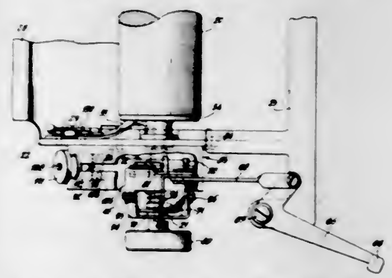
2,662,627
COIN-CONTROLLED MILEAGE METERING DEVICE
Emil R. Cappelle, Chicago, Ill.
Application March 18, 1950, Serial No. 150,425
9 Claims. (Cl. 194—16)

1. A device of the character described comprising a rotatable control member, a train of gears operatively connected to the speedometer drive of an automotive vehicle for rotating said control member in one direction, a magnetic clutch interposed between said train of gears and said control member, signal means, a stepping relay operatively connected with said control member to rotate the same in an opposite direction, coin receiving means, a first switch disposed in the path of travel of a coin within said coin receiving means and connected in electrical circuit with said stepping relay, said first switch when a coin is inserted in said coin receiving means being adapted to close an electrical cir-



cuit through said relay whereby to effect actuation of said relay to move said control means in an opposite direction an incremental distance, a second switch in electrical circuit with said signal means and operable by the movement of said control member to control the energization of said signal means, and a third switch operable by the movement of said relay and in electrical circuit with said magnetic clutch, said switch when said relay is actuated opening the circuit through said clutch thereby deenergizing said clutch and breaking the driving connection between said train of gears and said control member.

2,662,628
LINE SPACING DEVICE
John Toggenburger, Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 29, 1949, Serial No. 135,633
16 Claims. (Cl. 197—114)



1. In a finely variable line spacing device for a machine having printing instrumentalities, the combination with means movable to effect line feeding of paper relatively to said printing instrumentalities, of a reciprocatory space measuring means, two space measuring abutments

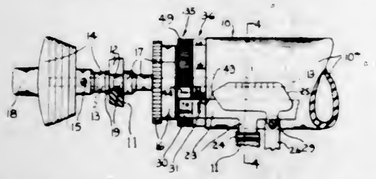
defining space measuring limit positions for said measuring means, an actuating means having opposite reciprocary movements for reciprocating the measuring means, means for said actuating means in each of said opposite reciprocatory movements to engage and to pick up said measuring means with a motion lag to move it oppositely between the said limit positions, clutch means between said movable means and said space measuring means, and means controlled by said actuating means to close said clutch means during one of said motion lags and to open it during the other said motion lag.

2,662,629

PAGE END INDICATOR FOR TYPEWRITERS

Edson G. Moshier and Edward G. Hoysak, Syracuse, N. Y., assignors to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York

Application June 2, 1951, Serial No. 229,642
16 Claims. (Cl. 197—189)



1. A typewriter having a pair of paper advancing and retracting rollers forming a bight at which paper is introduced into the typewriter, an annular paper length scale and a paper length indicator coaxially mounted for relative rotation into different set relations thereof indicative of paper lengths, means connecting one of said rollers with said scale and paper length indicator for conjoint rotation of said scale and indicator by said one roller, said scale having a series of graduations spaced therearound to divide its circumference into aliquot parts and an associated series of paper length indicating members indicating paper lengths measured from a single one of said graduations and in a direction around the scale opposite to that in which the scale rotates during paper advance, a second indicator fixedly related to said scale and mounted to rotate therewith, a third indicator mounted for travel of said scale and the first two indicators therepast during paper advancing and retracting rotations of said rollers, the fixed relation of said paper length scale and second indicator being such that, when said second and third indicators are registered, a rotation of said rollers sufficient to advance paper from the bight of the rollers to the writing line will position said one scale graduation half way around the scale from the third indicator.

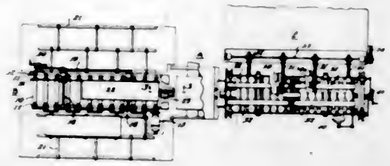
2,662,630

APPARATUS FOR HANDLING METAL SHEETS

John L. Frehoim, Ashland, Ky., assignor to Armco Steel Corporation, Middletown, Ohio, a corporation of Ohio

Application February 8, 1952, Serial No. 270,619
9 Claims. (Cl. 198—19)

2. In an apparatus for treating metal sheets wherein a succession of sheets is fed endwise through a first treating apparatus and then laterally through a second treating apparatus, a feed-in table for said second apparatus, a feed-out table for said first apparatus disposed over said feed-in table and including means for holding a sheet in position over said feed-in table, a feed-in table for said first apparatus including end stop means to stop a sheet on said last named feed-in table from entering said first apparatus, means for operating the feed-in table for said



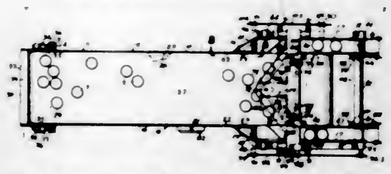
second apparatus in timed relation to said second apparatus, means associated with said feed-in table for said second apparatus for releasing said holding means and said stop means in timed relation to the operation of said second apparatus.

2,662,631

CAN CONVEYING MACHINE

Edwin C. Kraus and Maurice V. Douthitt, Ortonville, Minn.

Application January 31, 1949, Serial No. 73,847
13 Claims. (Cl. 198—30)



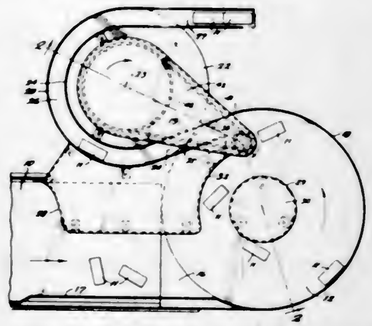
3. In a machine of the class described, a main conveyor belt, a secondary conveyor belt at each side of the main belt, a driven pulley at each side of the main belt, an idle eccentric pulley at the transverse center of the main belt, a deflecting belt arranged to run over each driven pulley and the eccentric pulley for deflecting articles on the main belt onto the secondary belts.

2,662,632

CONTAINER-ALIGNING CONVEYER APPARATUS

James Black and Otto Hedstrom, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

Application June 25, 1948, Serial No. 35,105
3 Claims. (Cl. 198—33)



1. In conveyor apparatus, a conveyor adapted to receive objects in transverse arrangement thereon, a disk supported for rotation and for receiving objects from said conveyor, a guide

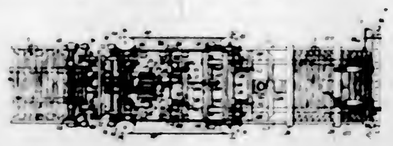
about peripheral portions of said disk and providing a discharge passage therefrom, said disk having an unobstructed annular portion permitting objects to be carried through a complete circle, means for rotating said disk, a baffle extending about the center of said disk, a deflector extending across one side portion of said conveyor and directing objects onto said disk between said baffle and said guide, a rotatably-mounted member having arms adjacent one side of said outlet passage, said member being spaced from said guide to provide an area adjacent the mouth of said discharge passage within which any of said objects approaching said passage long side first can be rotated by said arms into longitudinal alignment with said guide rail to enter said passage endwise, and means for rotating said member in a direction counter to that of said disk.

2,662,633

APPARATUS FOR ORIENTING MITERED CLEATS

David G. Kingsley, Mountain Lakes, N. J., assignor to Stapling Machines Co., Rockaway, N. J., a corporation of Delaware

Application April 9, 1952, Serial No. 281,362
13 Claims. (Cl. 198—33)



13. Apparatus for uniformly orienting mitered-end cleats and feeding them to a conveyor band of a box-part-making machine, said apparatus comprising a hopper for holding a supply of cleats aligned generally parallel to each other but of different orientation, a movable conveyor arranged below said hopper to receive said cleats from said hopper and convey them single file to a pickup position, a rotatable wheel having peripherally spaced elements for engaging said cleats at said pickup position and removing said cleats at intervals from said conveyor, a pair of movable orienting belts spaced apart a distance equal to the length of said cleats for receiving said cleats from said spacing wheel and conveying said cleats along a path generally at right angles to the long axes of said cleats, said orienting belts being inclined so as to present to the ends of said cleats surfaces extending upwardly and outwardly so that the cleats in a short-side-up position ride on said orienting belts at a higher level than the cleats in a short-side-down position, a cleat-turning member positiontd above the path of said cleats at such level as to engage and impede forward movement of the upper portions of the cleats riding on said orienting belts in a short-side-up position but not the cleats riding in a short-side-down position, to create, with the moving belts, a couple which turns the former said cleats generally about said axes and causes them to fall to a short-side-down position, a conveyor adapted to receive said cleats from said orienting belts and to convey the same in single file along a path generally lateral to said cleats, a hopper arranged above the conveyor band of said box-part-making machine to receive said cleats from said cleat conveyor and hold them in position for successive removal from said hopper by said conveyor band, driving means normally connected to drive the first said conveyor, said spacing wheel, said orienting belts and said cleat conveyor, and control means operable to disconnect said drive means from said spacing wheel and said orienting belts but to leave said drive means connected to said cleat conveyor, said control means being responsive to the accumulation on said cleat conveyor of a substantially solid line of cleats of predetermined extent.

2,662,634

AUXILIARY CONVEYER EXTENSION

Hubert A. Tintes, West Fargo, N. Dak.

Application October 16, 1950, Serial No. 190,273
2 Claims. (Cl. 198—93)



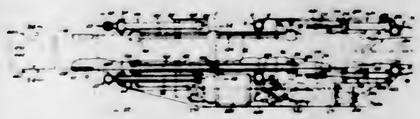
1. An auxiliary conveyor extension comprising material transferring means, a driving connection connected with said transferring means and having a universal joint interposed therein, and adapted for connection to a source of rotary driving power, a mounting connection at the discharge end of said material transferring means including a mounting strap adapted for rigid attachment to a suitable mounting structure at the delivery end of said material transferring means, an upstanding pivot pin fixed to said strap and disposed immediately below the intersecting axes of the universal joint of said driving connection, a sleeve journalled on said upstanding pin and pivotally mounted at the delivery end of said transferring means for swinging movement on a horizontal axis.

2,662,635

MATERIALS HANDLING APPARATUS

Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application May 24, 1949, Serial No. 94,949
31 Claims. (Cl. 198—220)



12. In a hydraulic shaker conveyor, a cylinder having a piston reciprocable therein in either direction from a neutral position, resilient means connected to bias the piston toward its neutral position, a shaker pan connected to be reciprocated by the cylinder-piston assembly, a hydraulic fluid reservoir, a pump having an intake and a discharge, means to conduct fluid from the reservoir to the pump intake, stop-valve means connected to receive fluid from the pump discharge, means to conduct fluid from the stop-valve means to the cylinder including a valve to determine the direction of piston reciprocation by the fluid, said last named means including also another valve operable to by-pass fluid flow from the pump to the reservoir and simultaneously to vent the cylinder to the reservoir, means to operate the stop-valve means, means to operate the last named valve, and means to conduct fluid from the last named valve to the reservoir.

2,662,636

TYPOGRAPHICAL COMPOSING MACHINE

Richard Henry Scott, Hale, and Arthur Staniland Hayward, Altrincham, England, assignors to Linotype and Machinery Limited, London, England, a British company

Application January 11, 1951, Serial No. 205,470
8 Claims. (Cl. 199—22)



1. Escapement mechanism for controlling the delivery of spacebands one at a time from the storage magazine of a typographical composing machine, said spacebands each having a slide formed with a recessed side surface and a slot at the extreme lower end and having an upper wedge-shaped section provided with projecting ears by which the spaceband is guided through channels in the storage magazine into a delivery chute, comprising an inclined guiding rail extending upwardly from the bottom wall of the storage magazine for engaging the slot formed at the extreme lower end of a spaceband slide, a fixed stop arranged to be engaged by the recess formed in the side surface of a spaceband slide, an upstanding finger arranged between the guiding rail and stop and reciprocable along a face of the stop for engaging the recess formed in a spaceband slide so as to arrest the foremost spaceband in an inclined position, means for lowering the upstanding finger to allow the spaceband to swing into a position in which the recess engages the stop, and means for raising the upstanding finger to engage the top end of the slot formed in the extreme lower end of the slide and lift the slide over the stop to allow the spaceband to partake of a swinging movement in the direction of the chute.

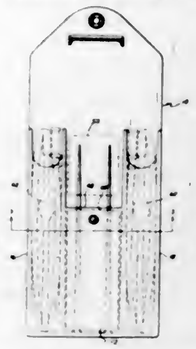
2,662,637

CARRYING CASE

John T. Armbruster, Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application December 27, 1950, Serial No. 202,891
4 Claims. (Cl. 206—12)

4. An elongated molded carrying case formed of semi-flexible plastic material and arranged to receive fragile articles, said carrying case comprising front and rear walls and a pair of side walls integrally joined together along their adjacent edges, a pair of spaced elongated partitions disposed between said side walls and integrally secured to said front and rear walls, a bottom wall integrally secured to said side walls, to said partitions and to said front and rear walls, a cover flap for closing the upper open end of said case, said cover flap comprising a relatively thin flexible portion molded integrally with said back wall and adapted to bear against the upper edges of said side walls when moved to closed position, and a relatively thicker stiffer outer portion molded integrally with said flexible portion and adapted to overlie a part of said front wall in close relation thereto when moved to said closed position, said partitions dividing said case into a pair of elongated side compartments and a relatively wider central chamber, said front wall having a relatively deep recess formed in an upper portion thereof and located between said partitions, and a transverse reinforcing rib integrally secured to the relatively stiffer outer portion of



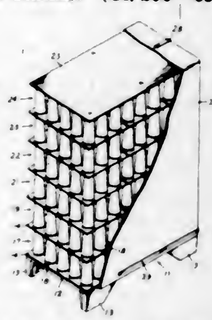
said cover flap and extending outwardly from the inside surface thereof, said transverse rib being of such a size as to extend to points closely adjacent both partitions and closely adjacent said rear wall when said cover flap is in its closed position, said transverse rib in closed position dividing said central chamber into an upper compartment and a lower compartment and serving as a closure member for said lower compartment, said transverse rib also serving as strengthening means for intermediate portions of said side walls while in its closed position.

2,662,638

CARTON

William C. Storer and Adelbert L. Rotruck, Narrows, Va., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

Application August 18, 1949, Serial No. 110,942
3 Claims. (Cl. 206—65)



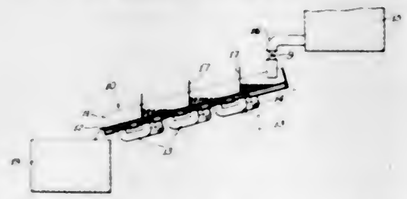
1. In a carton for storing and shipping separate packages of yarn arranged in superposed layers, each of said packages being apertured at the top and bottom thereof, a plurality of intermediate shelves between said layers, each intermediate shelf being supported by the layer of packages beneath said intermediate shelf and supporting the layer of packages above said intermediate shelf, a bottom shelf supporting all of said layers, a pallet carrying said layers and said shelf and having a plurality of apertures therein, pins mounted in said intermediate shelves and projecting from both sides thereof, said pins engaging in the apertures of said yarn packages to prevent relative movement thereof, and pins mounted in said bottom shelf and projecting from both sides thereof, the upper portions of the latter pins engaging in the apertures of the yarn packages in said bottom layers to prevent relative movement thereof and the lower portions of the latter pins engaging in the apertures in said pallet to prevent relative horizontal movement of the bottom shelf and packages with respect to said pallet.

2,662,639

REMOVAL OF MAGNETITE FROM ASBESTOS

Izador J. Novak, Trumbull, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey

Application May 28, 1949, Serial No. 96,061
2 Claims. (Cl. 209—2)



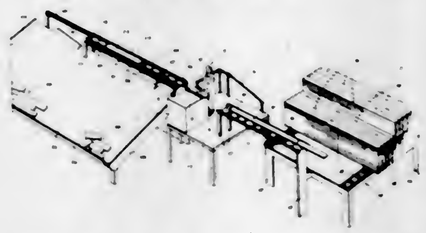
1. The method of treating chrysotile fibrous asbestos agglomerates to segregate therefrom normally occluded and entangled associated magnetite particle content which comprises, mixing said asbestos with an aqueous solution of organic chrysotile asbestos colloidizing agent effective to (*a*) subdivide them into fibrils of colloidal size and to saturate the fibril surfaces with and to deposit thereon an adsorbed layer of said agent (*b*) and to colloidally disperse said saturated fibrils, and then subjecting said dispersion at a concentration of from about 0.1% to about 1.0% by weight of asbestos to magnetic separation to withdraw the magnetite particles therefrom.

2,662,640

LENGTH-ASSORTING AND CONVEYING APPARATUS FOR LUMBER AFTER DEKNOTTING OPERATIONS

Homer H. Dedo, Merced, Calif.

Application May 14, 1951, Serial No. 226,265
2 Claims. (Cl. 209—83)



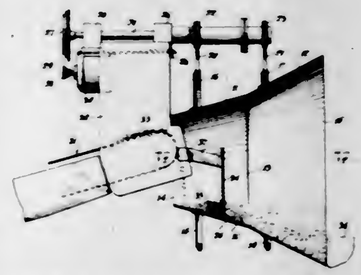
1. In a lumber-length segregating apparatus which comprises a horizontal conveyor to receive cut lengths lengthwise at one end of the conveyor, and arranged to convey said lengths along the same toward the other end of the conveyor for discharge, means intermediate the ends of the conveyor to discharge relatively short lumber lengths therefrom, the conveyor including an upstanding guide wall along one side against which one edge of the lengths of lumber moving along the conveyor may abut; an extension of said wall projecting beyond said other end of the conveyor, a horizontal ledge along the extension substantially alined with the conveyor and projecting transversely thereof a relatively short distance to support the adjacent edge portion of a relatively long length of lumber projecting beyond said other end of the conveyor while still being advanced along the same, and a chute under said extension and ledge projecting at a downward slope laterally of the conveyor to receive the last named lengths of lumber when such lengths have been advanced for substantially their full length along the ledge.

2,662,641

METHOD AND APPARATUS FOR SEPARATING AND CLASSIFYING SUBSTANTIALLY SPHERICAL BODIES INTO DIFFERENT SIZE GROUPS

Charles W. Clark, Toronto, Ontario, and Bernard H. Morrison, Noranda, Quebec, Canada, assignors to Noranda Mines Limited, Toronto, Ontario, Canada, a corporation of Canada

Application June 20, 1951, Serial No. 232,567
6 Claims. (Cl. 209—113)



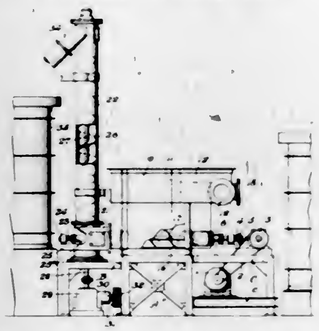
1. Apparatus for effecting a separation of different sizes of substantially spherical bodies, comprising a member having an imperforate, substantially frusto-conical interior surface, which surface has an axis of symmetry and an open larger diameter end and a smaller diameter end, means mounting said member for rotation about said axis, with said axis positioned so that the larger diameter end of said surface has its lowermost part at a lower level than the lowermost part of said smaller end, so that rotation of said member will move said bodies in the lowermost portion thereof to a higher level and so that said bodies will roll by gravity in a direction opposite the direction of rotation of said member during such rotation, means for rotating said member about said axis, means for supplying substantially spherical bodies to the interior of said member adjacent to said smaller diameter end, a stationary baffle disposed inside the smaller diameter end portion of said member and having a lower edge portion conforming substantially to the curvature of the adjacent part of said member and positioned closely adjacent thereto for deflecting the bodies supplied to the interior of said member in the direction of rotation thereof, and means for selectively diverting to different delivery points the bodies rolling off the open larger diameter end of said surface of said member at different angular zones respectively about said axis.

2,662,642

SCREW DEWATERING CLASSIFIER

William P. Wilson, Carlsbad, N. Mex., assignor to United States Potash Company, New York, N. Y.

Application March 20, 1950, Serial No. 150,568
2 Claims. (Cl. 210—55)



1. In a dewatering classifier for separating solution liquor from undissolved residue ore, a settling chamber having downwardly converging side walls converging into an arcuate bottom, a baffle at the upper portion of said chamber defining an intake and an overflow weir, a horizontal screw conveyor arranged in the arcuate bottom of the settling chamber between said converging side walls, said horizontal screw projecting beyond said chamber, a housing snugly enclosing the projecting portion of the screw to restrict the discharge area of the screw for compacting the material in said projecting portion, said housing being formed with a side opening, a vertical screw elevator including a screw and a tubular casing, said screw elevator having a discharge chute at its upper end and being positioned with its major portion substantially above said settling chamber, said vertical screw elevator being offset from the axes of said horizontal screw, a deflector plate at the outer end of said housing spaced from the end of said horizontal screw conveyor, said deflector plate lying in a plane substantially tangent to the tubular casing of said vertical elevator for directing compacted material from the horizontal screw conveyor to the vertical screw elevator through said side opening, said vertical screw being of less diameter than the interior diameter of said vertical casing to permit return of liquid moved by said vertical screw to said settling chamber, and separate power means for driving the horizontal screw conveyor and the vertical screw elevator.

2,662,643

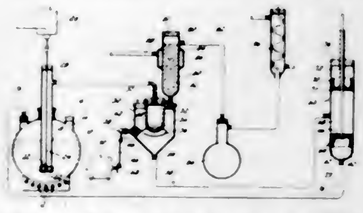
APPARATUS FOR SEPARATING SOLID METALLIC PARTICLES FROM AN ELECTROLYTE AND COMPACTING THE SAME

Wheeler G. Lovell and Nelson E. Phillips, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 23, 1944, Serial No. 569,486, which is a division of application Serial No. 365,188, November 12, 1940, now Patent No. 2,373,320, dated April 10, 1945. Divided and this application September 12, 1950, Serial No. 184,360

1 Claim. (Cl. 210—152)

In an apparatus for separating solid, metallic particles from an electrolyte and compacting the same into a coherent, spongy mass, a filter chamber having a first opening in a wall thereof, a piston-shaped filter in said filter chamber normally below said first opening, said piston-shaped filter being reciprocally mounted in the filter chamber and in sealing engagement with the walls thereof, said chamber having a second opening below said first opening and said piston-shaped filter, a second piston reciprocally mounted in said chamber above said first opening, means for flowing an electrolyte having metal particles



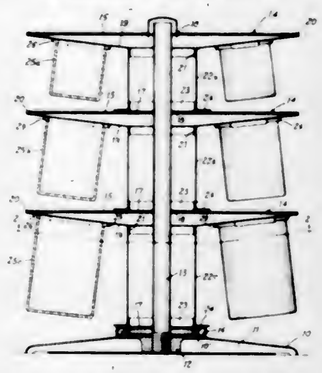
therein into the filter chamber through said first opening where the metal particles collect on the piston-shaped filter element and the electrolyte passes therethrough and through said second opening, means for moving said piston-shaped filter element and metal particles thereon upwardly to a point above said first opening to compress the metal particles into a coherent mass between the piston-shaped filter element and said second piston, and means for moving said second piston.

2,662,644

ROTARY STAND FOR PARTS CONTAINERS

Harry B. Alexander, Canton, Ohio, assignor to The Superior Switchboard & Devices Company, Canton, Ohio, a corporation of Ohio

Application July 12, 1951, Serial No. 236,339
6 Claims. (Cl. 211—77)



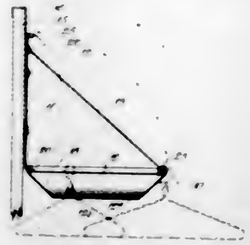
3. A rotary stand for a plurality of flanged containers including a base, a column fixed to and extending vertically from said base, a plurality of decks spaced one above the other on said column and rotatably supported on the base, each deck including a flat upper plate and a frustoconical resilient lower plate secured thereto, said lower plate sloping inwardly downward toward a central portion, a cylindrical collar depending from each said central portion and spacing the decks apart vertically, and circumferentially spaced hanger flanges depending from said lower plate, each pair of hanger flanges having inturned lips adapted to engage under the flange of a container to press the same against the lower plate.

2,662,645

FOLDABLE SHELF

Victor E. Piton, Chesterton, Ind.

Application December 19, 1950, Serial No. 201,627
2 Claims. (Cl. 211—93)



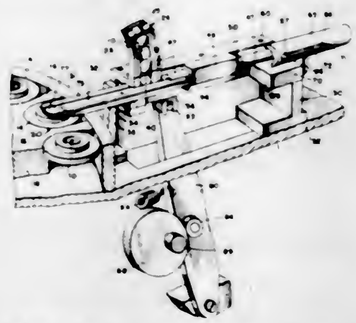
1. A wardrobe adapted to be attached to a vertical surface comprising a pair of elongated brackets having spring hooks at their upper ends, a substantially flat shelf hingedly attached to said brackets at their lower ends, and means interconnecting the side of said shelf remote from said brackets to points near the top of said brackets for holding said shelf in a horizontal position, said shelf being foldable upwardly from said horizontal position to a vertical position adjacent to said surface, said hooks holding said shelf in said vertical position.

2,662,646

DEVICE FOR CAPPING TRANSMITTERS

Cecil C. McCain, Glen Ellyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application July 5, 1951, Serial No. 235,157
4 Claims. (Cl. 214—1)



1. A device for applying caps onto articles comprising a chute for holding a supply of said caps, a slide mounted for reciprocation with respect to said chute, a transfer member pivotally mounted on said slide for reciprocation therewith to and from retracted and advanced positions and for oscillation about an axis parallel to the direction of movement of said slide, means for oscillating said transfer member to and from vertical and horizontal positions in response to the reciprocation thereof, a recess in the transfer member alignable with said chute when said transfer member is in said retracted position for receiving a cap therein, a retaining member slidably mounted on said transfer member for movement therewith and having a normal position for retaining said cap in said recess as said transfer member is advanced, means for reciprocating said slide to cause said transfer member to receive a cap from said chute and position it in the advanced position of said transfer member above said article, said retaining member forming the lower wall of said pocket for supporting the cap thereon during a portion of the movement of said transfer member, and means for supporting said article in a predetermined position in the path of movement of said retaining member to arrest the movement thereof at a predetermined point in the movement of the transfer member to said advanced position to effect relative movement between said transfer member and said retaining member and the positioning of said retaining member in said open position thereby to effect the release of said cap onto said article.

2,662,647

APPARATUS FOR DISPENSING SLATS

David G. Kingsley, Mountain Lakes, N. J., assignor to Stapling Machines Co., Rockaway, N. J., a corporation of Delaware

Application July 7, 1951, Serial No. 235,638
4 Claims. (Cl. 214—8.5)



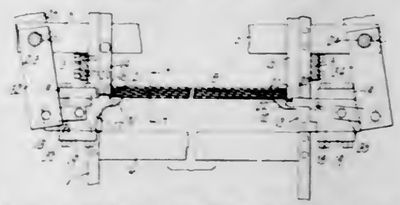
1. Apparatus for dispensing slats to a box- or crate-making machine comprising a hopper for holding a stack of slats, and means for feeding slats singly from one end of said stack comprising reciprocably mounted slat-engaging elements adapted to engage the trailing edge of the slat at said end of the stack, driving means for reciprocating said slat-engaging elements through feeding and return strokes, and stop members adapted to engage said slat-engaging elements and stop the return strokes thereof when said slat-engaging elements reach the trailing edge of said end slat.

2,662,648

SHEET METAL SEPARATING DEVICE

Robert J. Van Schie, Grand Rapids, Mich.

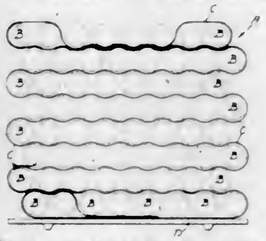
Application November 13, 1951, Serial No. 255,951
28 Claims. (Cl. 214—8.5)



1. A sheet metal separating device comprising, a hopper having rectangularly positioned corner uprights connected by side and end horizontal rails and adapted to receive a stack of metal sheets through the top, support fingers secured to said uprights and projecting horizontally inwardly of the hopper from opposite sides thereof to support the bottom sheet of the stack, said fingers having downwardly and outwardly beveled inner ends whereby the upper edges thereof form sharp edges adapted to penetrate between adjacent sheets, the upper edges of said fingers being transversely and downwardly concavely rounded, guide bars secured to said uprights within said hopper and located on opposite sides of the hopper above

said fingers, the guide bars on one side of the hopper being spaced above their associated fingers by a distance slightly greater than the thickness of the sheets to be separated to provide a single sheet receiving slot therebetween, sheet moving jaws reciprocably slidably supported on the sides of said fingers and having transversely curved upper edges concentric with said fingers, rock shafts pivotally mounted on each side of said hopper and interconnected for simultaneously rocking motion, crank arms connected between said rock shafts and said jaws on each side of said frame, means for oscillating said rock shafts whereby the jaws on one side of said hopper are projected inwardly of said guide members and fingers while the jaws on the other side of the hopper are retracted outwardly of the plane of the guide members on that side of the hopper, said jaws having sheet engaging notches positioned to move along the edges of said sheet supporting fingers to engage the bottom sheet of a stack supported on said fingers, a temporary supporting bar horizontally reciprocably mounted below the jaws and fingers on the other side of said hopper from said one side thereof, means connecting said supporting bar to the rock shaft on said other side of the hopper for reciprocation with the jaws on said other side of the hopper, the jaws on said other side of the hopper having lower vertically extending sheet engaging edges translatable against the edge of a sheet supported on said supporting bar, a receiving platform supported between said uprights below said jaws to receive individual sheets separated from said stack by said jaws, and a horizontally reciprocable sheet discharge element mounted to move across said receiving platform to discharge sheets therefrom.

2,662,649
SHIPPING PACKAGE
Willie Gill, Montreal, Quebec, Canada, and Samuel S. Nicholson, River Edge, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 27, 1951, Serial No. 238,908
7 Claims. (Cl. 214—10.5)



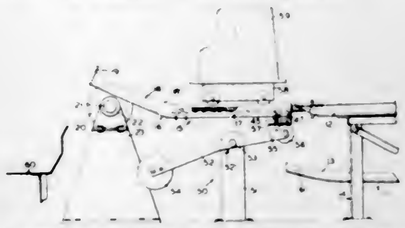
7. A unitary package for shipping and storing articles of substantial weight, comprising a plurality of articles arranged in contiguous relation in uniformly staggered rows superposed upon each other with an end article of a superposed row overhanging a contiguous end article of a subjacent row and at least one substantially continuous flexible binder element snaked through a series of superposed rows and wound at least partially around each of said overhanging articles, the ends of said binder element being separated from each other, the lead end of said binder element being anchored by at least one article in a lower row of said package and the terminal end of said binder element being anchored by at least one article in a row higher than said lower rows of articles, thereby providing a unitary package of articles tightly bound together for shipment and storage.

2,662,650
UNLOADING MEANS
Lewis S. Russell, Portland, Oreg.
Application March 24, 1952, Serial No. 278,277
4 Claims. (Cl. 214—44)



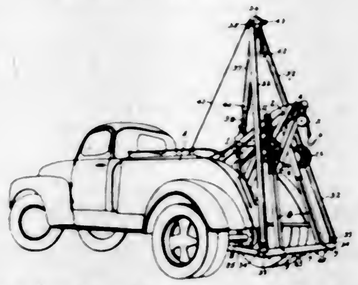
1. In combination with a truck or trailer body having a continuous plane floor member, a pair of similar rectangular parallel vertical side members, and a displaceable rear end closure member, said side members being finished with horizontal top surfaces having vertical holes therein spaced longitudinally thereof, said body being adapted for general purpose hauling of all types of bulk material, an improved means adapted for temporary use with said body to expedite the discharge of bulk material loaded therein, said improved means comprising a longitudinally flexible sheet member adapted to extend the full width of said floor and to extend longitudinally from adjacent the rear end of said floor forwardly along said floor a desired distance and then upwardly to the height of said side members, said sheet member being formed at each end with tunnel loop means transversely thereof, said improved means including a first stiff bar adapted to extend through the said loop means at the front end of said sheet and rest on the top surfaces of said side members to support the front end of said sheet at the elevation of said top surfaces, said improved means including means insertable in selected ones of said holes in said top surfaces and adapted to engage the ends of said bar to maintain said bar in a desired position, and said improved means including a second stiff bar adapted when said rear closure is displaced to extend through the said loop means at the rear end of said sheet back of said side members, said second bar being adapted to engage the rear edges of said side members to limit the forward movement of said sheet under said bulk material when the said first bar is moved upwardly and rearwardly to discharge said load.

2,662,651
TILTABLE DUMPING DEVICE FOR MOLD CONVEYERS
Russell J. Anderson, Racine, Wis., assignor to Belle City Malleable Iron Company, a corporation of Wisconsin
Application November 7, 1951, Serial No. 255,226
13 Claims. (Cl. 214—46.22)



1. In a conveyer for transporting mold carriers including an upper track inclined in one direction, and a lower return track inclined in an opposite direction; a tilting dumping cradle positioned adjacent the ends of the upper and lower tracks, a track on said cradle movable alternately during tilting of the cradle into cooperative alignment with the upper and lower tracks thereby alternately providing a continuation of either, means for tilting said cradle comprising a shaft connected to said cradle, supporting means for supporting said shaft for rotation about a horizontal axis, a power unit positioned adjacent said cradle, a first clutch means on said shaft, a second clutch means on said power unit, said clutch means being engageable during operation of the power unit for rotating the track upwardly to a dumping position, said track being swingable from the dumping position by gravity into alignment with the lower track, a shock reducing mechanism positioned adjacent said cradle, said shock reducing mechanism including a support, an arm connected to said support intermediate its ends for pivotal movement about a horizontal axis, a counterweight on one end of said arm, a roller on the other end of said arm, and a bracket projecting laterally outwardly from said cradle, said bracket being engageable with the roller during swinging movement of the track to its cooperating position with the lower track whereby a carrier on said cradle may be discharged and whereby the counterweight is moved in an upward direction whereupon said counterweight pivots said arm to return said track into registering cooperation with the upper track.

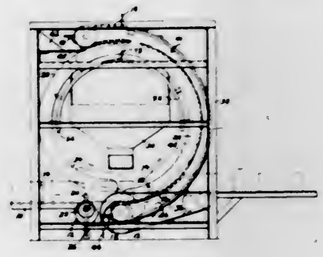
2,662,652
WRECKING TRUCK
Oscar S. Hubbard and John S. Hubbard, Farmland, Ind.
Application March 2, 1951, Serial No. 213,634
2 Claims. (Cl. 214—86)



1. In a wrecking truck, a rigid framework secured in the truck, a pair of raising and lowering devices, each being independent of the other, with each being pivotally secured to the framework, a geared rack extending through each of the raising and lowering members, with the geared racks being connected with a common foot bar, with the operation of the geared racks providing raising and lowering movements of the foot bar member, and with means connected with the raising and lowering devices locking the geared rack members against upward and downward movement with relation to the raising and lowering devices.

2,662,653
CARTON AND BOX INVERTER
Peter Bianchi, New Haven, and John C. Rothwell, Bolton, Conn.; said Rothwell assignor of one-fourth to Joseph T. Donohue, West Boylston, Mass., and one-fourth to John F. Walsh, Columbia, Conn.
Application August 7, 1951, Serial No. 240,732
3 Claims. (Cl. 214—311)

1. Apparatus of the class described comprising a generally vertical spiral loop track, a conveyor from the bottom of the loop extending along a side thereof upwardly on an arc to a point past the top of the loop, an inverted guide extending along the top portion of the loop to retain arti-



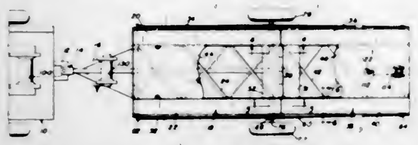
cles in the track, the guide extending well beyond the termination of the conveyor so that articles fall by gravity down along the opposite side of the loop.

2,662,654
VEHICLE LOADING AND UNLOADING APPARATUS
Lourie L. Eakin, Ventura, Calif.
Application February 12, 1951, Serial No. 210,480
3 Claims. (Cl. 214—504)



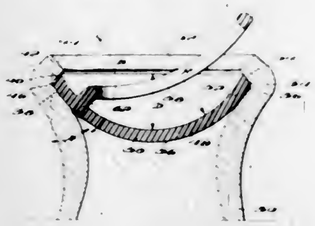
1. In an apparatus of the class described: a vehicle frame; a receptacle having its rearward end pivoted at the rearward end of said frame on an axis extending transversely of said frame, said receptacle normally resting upon said frame; a boom also pivoted on an axis extending transversely of the frame and beneath said receptacle, said boom having arms normally extending forwardly from the pivotal axis of the boom and adapted for movement in vertical planes disposed laterally outwardly of the sides of said receptacle to adapt the boom for pivotal movement from a forward, retracted position to a rearward, extended position with its arms moving alongside the sides of said receptacle; vertical pivot pins carried by the sides of said receptacle adjacent the forward end thereof; trunnions pivoted on said pins; rollers rotatable on said trunnions, said trunnions being adapted to be pivoted to a first position in which said rollers are disposed in the planes of vertical movement of said arms and with their axes of rotation extending normal to said planes so as to be engaged by said arms during pivotal movement of the boom from its retracted position to tilt said receptacle on its pivotal axis, and to a second position in which said rollers are disposed out of said planes with their axes extending substantially parallel to said planes; and releasable locking means for locking said trunnions in their said first position.

2,662,655
SELF-LOADING TRAILER
Orville E. Sellers, Johnstown, Pa.
Application May 26, 1950, Serial No. 164,535
2 Claims. (Cl. 214—523)



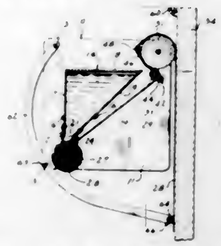
1. In a device for transporting vehicles, a trailer comprising a front section and a rear section, each of said sections having tracks to support vehicle wheels, means releasably connecting said sections together, a tongue attached to one of said sections and having a winch disposed thereon with a cable extending therefrom, the other of said sections having standard pivoted thereto with said cable entrained therearound to lift a disabled vehicle, and a stop secured to the last-mentioned section and disposed in the path of pivotal movement of said standard to limit the travel of said standard in one direction and retain said standard in an upright position.

2,662,656
RECEPTACLE CLOSURE
Marshall B. Beaubaire and Martin E. Strand, Minneapolis, Minn.
Application April 14, 1953, Serial No. 348,714
8 Claims. (Cl. 215—51)



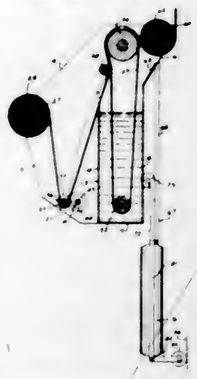
1. A stopper for a receptacle for beer, carbonated beverages and the like and having an outlet portion formed with an internal annular groove providing an outwardly flaring shoulder and an inwardly turned abutment; said stopper comprising; a flat circular disk having substantially the same cross sectional configuration through all diameters thereof, said disk adapted to be cupped in the groove of smaller diameter than said disk with the marginal portion thereof seated on the shoulder and with the edge thereof engaging the abutment of the groove to form a seal, and a molded pull tab integrally joined to said disk at a location spaced from the edge thereof a distance sufficient to provide uniform contact of its edge portion when in sealed position and spaced also at least one-half the radial distance from the center of said disk to enable said disk to be opened upon pulling said tab by first raising the edge of said disk away from its groove along a limited arc radially outwardly from said tab, said disk and tab being formed of a synthetic thermoplastic polymer, and said disk having the properties of resilience sufficient to permit its forceable entrance and withdrawal from the receptacle, a stiffness sufficient to prevent its removal due to internal receptacle pressures normally encountered in bottle beer and carbonated beverages, a substantial resistance to liquid absorption, and being substantially inert to beer and carbonated beverages.

2,662,657
WALLPAPER HANGING APPARATUS
Ted R. Wynn, Helena, Ala.
Application April 23, 1951, Serial No. 222,429
3 Claims. (Cl. 216—6)



3. In a paper hanging device, a frame embodying laterally spaced side walls, a paste container triangular in transverse section extending between the said side walls and detachably mounted thereon, there being an opening in the lowermost corner of said container extending the length thereof, means for rotatably supporting a roll of paper adjacent and below said opening, a roller rotatably mounted between said side walls with a portion of its periphery projecting outwardly of said side walls over which the paper passes after it has passed said opening in the paste container, a handle secured to said side walls and having a lower end of a length to contact the wall to be papered and hold said side walls of the device out of contact with the wall to be papered, and a bar adjustably secured to the lower end of the handle and extending laterally therefrom in a direction substantially parallel to the axis of the roller for aligning the device by reference to an edge of the paper being applied.

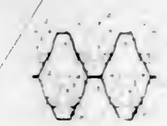
2,662,658
WALLPAPER HANGING APPARATUS
Ted R. Wynn, Birmingham, Ala.
Application May 23, 1951, Serial No. 227,866
6 Claims. (Cl. 216—6)



1. In paper hanging apparatus, laterally spaced side walls, a paste container mounted between said side walls, a rotatable member mounted for rotation between said side walls with a portion thereof extending down into the paste container, a slot in the upper forward edge of each side wall,

a roller rotatably mounted in said slots for supporting a roll of wall paper and delivering the same to said rotatable member, a presser roller rotatably mounted between said side walls in position to receive the paper after it has passed over said rotatable member, sockets in each end of said presser roller, a U-shaped rod having inwardly projecting ends detachably fitting in each of said sockets, a bearing member secured to each leg of the U-shaped rod intermediate the ends thereof adapted for rotatably mounting a roller therebetween in a plane substantially parallel to said inwardly projecting ends, and means to rotate said roller mounted in said bearings to wind paper thereon from a roll of wall paper rotatably supported between said inwardly propecting ends.

2,662,659
PACKING DEVICE
William Dudley Putnam, Brantford, Ontario, Canada
Application February 23, 1951, Serial No. 212,258
3 Claims. (Cl. 217—26.5)



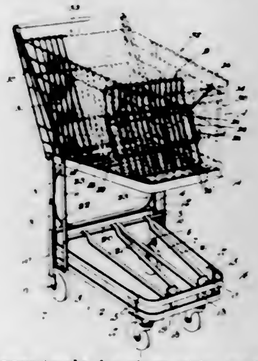
1. A moulded pulp egg tray which is characterized by a series of spaced hollow post formations extending upwardly of one face of the tray and a series of spaced hollow post formations extending downwardly of the opposite face of the tray, said upwardly and downwardly extending post formations being arranged in alternate rows in the lateral direction and presenting egg receiving pockets opening in opposite directions, the upwardly extending post formations being spaced around the upwardly opening pockets formed by the downwardly extending post formations and having downwardly directed outwardly tapering outer wall surfaces with the lower portions thereof merging into the upwardly tapering inner wall surfaces of adjoining downwardly extending post formations and cooperating therewith to provide enlarged pockets for receiving the lower ends of eggs positioned therein, with the eggs projecting above the uppermost extremities of said upwardly extending post formations and into the downwardly opening pockets formed by upwardly extending post formations of a like tray positioned in stacked relation thereabove, and said upwardly extending post formations each having indented portions deforming the walls thereof in the direction of the vertical axis of said post formations and each indented portion extending downwardly from the neighborhood of the medial area of said post to a point short of the point of contact of the inner surface thereof with the upper end of an egg positioned in an upwardly opening pocket in a like tray positioned in stacked relation beneath the same, said indented wall portions providing supports for engaging substantial circumferential areas of the egg surface adjacent but terminating short of the lower end of the egg whereby to provide increased egg room for the lower end of the egg in the lateral area between the upwardly extending post formations and immediately above the upwardly opening pockets without decreasing substantially the effective egg room provided by the downwardly opening pockets.

2,662,660
CABINET CONSTRUCTION
Carl E. H. Frykdahl, Duluth, Minn., assignor to International Telephone and Telegraph Corporation, a corporation of Maryland
Application September 1, 1950, Serial No. 182,827
1 Claim. (Cl. 220—8)



In a double walled cabinet including spaced inner and outer shells, said shells having corresponding peripheral edge portions disposed in spaced relation to each other and in planes substantially at right angles thereto, said peripheral edge portion on one of said shells being inwardly reversely bent to afford a laterally projecting closely spaced flange parallel with the inner surface of said portion with the free edge thereof in spaced relation to the shell, a strip of flexible material having surfaces extending in planes substantially at right angles to each other from a line of flexure toward respective ones of said peripheral edges, the opposite edges of elongated sides of strip being bifurcated and having two laterally displaced tongues extending in substantially the same direction engaging opposite sides of said respective ones of said peripheral edges and holding said strip in bridging relation between said peripheral edges, the inner tongue of the bifurcated edge which engages the reversely bent edge having a lip projecting toward the other tongue thereof and engaging the free edge of said flange therewith in latching engagement, and the other of said bifurcated edges having the inner tongue projecting outwardly away from the other tongue thereof for guidingly engaging the other of said respective peripheral edges to thereby guide said other peripheral edge to said other bifurcated edge after said bifurcated edge is disposed on said first mentioned respective peripheral edge in said latching engagement with said flange.

2,662,661
PIVOTED PARTITION FOR WIRE RECEPTACLES
Sylvan N. Goldman, Oklahoma City, Okla.
Original application June 17, 1949, Serial No. 99,847. Divided and this application May 10, 1950, Serial No. 168,621
3 Claims. (Cl. 220—19)



1. In a receptacle having side walls including horizontal members, an end wall, and a bottom,

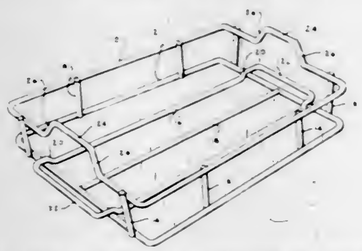
a fabricated partition for said receptacle, said partition including a frame formed of top and bottom elements and connecting side elements, a plurality of spaced upright members connecting the top and bottom elements, a rectangular wire frame including sides and ends, the sides of said wire frame extending across said upright members to form a supporting structure therefor, and the ends of said wire frame projecting laterally of and being spaced from the connecting side elements of said partition and defining with said side elements elongated guideways, a U-shaped support having its base extending across the back of said partition and its arms within said guideway, the extremities of said arms being slidably connected to the horizontal members of said side walls, and means pivotally connecting the partition to the bottom of the receptacle.

2,662,662

STACKING STOCK BASKET

John P. Moorhead, Dearborn Township, Wayne County, Mich., assignor to Wall Wire Products Company, Plymouth, Mich., a corporation of Michigan

Application June 16, 1950, Serial No. 168,637
10 Claims. (Cl. 220—19)



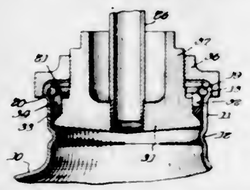
1. A basket structure comprising superposed baskets each having top and bottom frame members arranged in spaced, parallel relation and a closed loop member secured to said bottom frame and projecting beyond and spaced from opposite ends thereof, said top frame member at opposite ends thereof being deformed so as to define upwardly offset integral handle portions overlying the space between said bottom frame and the projecting portions of said loop member so as to be engageable with the projecting portions of the loop members of the next upper basket thereby preventing relative endwise and lateral movement between said baskets.

2,662,663

CLOSURE FOR PRESSURE VESSELS

Edward G. Schmidt, La Grange, and Francis J. Cantalupo, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois

Application August 11, 1950, Serial No. 178,944
2 Claims. (Cl. 220—25)



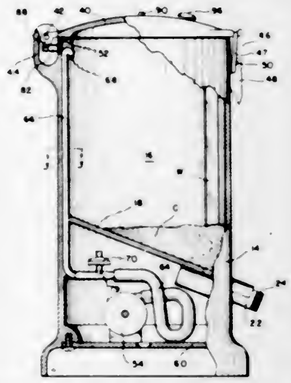
2. A vessel closure structure comprising in combination a pressure vessel, an annular shank extending outwardly from said vessel to form an opening therein, the said shank having a slightly reduced annular portion on the inner end thereof and a slightly enlarged grooved deformable portion on the outer end thereof, a closure cover plate member receivable past the grooved portion and positioned intermediate said shank end portions to form an outer annular chamber therebetween, a fluid seal ring disposed within said annular chamber, means for retaining said seal ring within said chamber, a split ring disposed within a grooved portion of the said shank enlarged portion, said split ring overlying an outer peripheral portion of said cover plate member, threaded means integral with said closure plate, and retaining means engaging said threaded means to bear on an outer part of the annular deformable portion of said vessel shank end and enclose the latter portion to retain it against substantial outward expansion while under the influence of internal fluid pressures within the vessel, the enclosed end of the said vessel shank portion being annularly rounded on its side and upper end, the said retaining means having an inner annular frusto-conical surface for engagement by the said annularly rounded surface of the shank portion.

2,662,664

VACUUM STORAGE UNIT FOR GROUND COFFEE

Roy Le Vern Decker, Seattle, Wash., assignor of one-half to Charles Glen Smith, Seattle, Wash.

Application December 24, 1948, Serial No. 67,160
4 Claims. (Cl. 222—23)



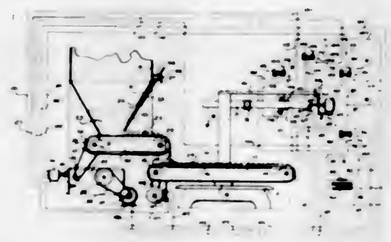
1. A vacuum storage and dispensing device for coffee and the like, comprising: a storage chamber having a hopper bottom and a cover, said storage chamber being sealed in an air-tight manner when said cover is closed; an electrically powered vacuum pump connected to said chamber and operative to exhaust air therefrom; a current supply circuit for said vacuum pump and a pressure responsive switch in said circuit operative to control the operation of said pump, said pressure responsive switch being disposed in relation to said chamber in a manner so as to be responsive to pressures therein and to activate said pump when the pressure in said chamber rises above a predetermined value; a second electric switch in said circuit operative to control the operation of said pump, said cover being connected to said second switch to open said switch when said cover opens and to close said switch when said cover closes; means for venting said chamber preliminary to opening said cover including an air passageway communicating from the inside to the outside of said chamber and a manually operable valve in said passageway; and dispensing means connecting with said hopper bottom and operative to dispense material from the contents of said chamber while maintaining a barrier in the dispensing means between the inside of said chamber and the outside of the same thereby permitting dispensing without free access of air to said chamber.

2,662,665

CONTROLLING APPARATUS

Lyndus E. Harper, Skokie, Ill., assignor to Omega Machine Company, Providence, R. I., a corporation of Missouri

Original application July 3, 1946, Serial No. 681,385, now Patent No. 2,637,434, dated May 5, 1953. Divided and this application October 23, 1951, Serial No. 252,747
11 Claims. (Cl. 222—55)



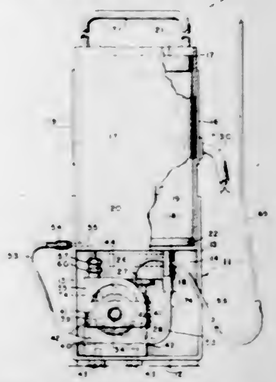
1. Controlling apparatus for maintaining a predetermined rate of continuous output of a device, comprising a rate of output adjusting member movable in one direction to increase said rate of output and in the opposite direction to decrease said rate of output, and means controlling the movement of said adjusting member and the direction of said movement, comprising a circuit for controlling movement of said adjusting member in one direction, a circuit for controlling movement of said adjusting member in the opposite direction, a member mounted for movement in opposite directions, said member having a position determined by the rate of output of said device and having a predetermined position as long as said output is at said predetermined rate and moving to positions on opposite sides of said predetermined position whenever the rate of output of said device is above or below said predetermined rate, and cooperating means for selecting one of said circuits responsive to the position of said output rate responsive member, said cooperating means including means continuously rotating in the same direction, and means engaging with said continuously rotating means upon movement of said member out of said predetermined position in either direction to select a circuit and close said selected circuit to change the adjustment of said device, one of said cooperating means being mounted to move with said member, and means for opening both said circuits to maintain the adjustment of said device upon disengagement of said cooperating means, said output rate responsive member holding said cooperating means out of engagement when in its predetermined position.

2,662,666

INJECTOR DEVICE

Samuel H. Lamport, Southbridge, Mass., assignor to Golding Bros. Company, Inc., New York, N. Y., a corporation

Application August 4, 1949, Serial No. 108,500
1 Claim. (Cl. 222—181)



An injector apparatus attachable to a fusing and seam-sealing machine, comprising a carrier attachable to said fusing and seam-sealing machine, a reservoir containing a latex solution, a block having an annular pocket having an upper portion and a lower portion, the upper portion having a greater diameter than the lower portion, and mounted upon the said attachable carrier, a squeezer element having a shaft rotatably mounted in said annular pocket, the said squeezer element comprising a web-like member having diametrically opposed rollers thereon, slots diametrically located on opposite sides of the solid web, from the outer periphery inward of the squeezer element, a sufficient distance to form a channel slot in which to house the rollers, the said rollers upon the squeezer element being mounted in pairs along the periphery of the squeezer element (with the axis of each pair being parallel to the axis of the squeezer element) and with the rollers of each pair being disposed in its respective slot, a flexible and deformable tube connected to the said reservoir and passing through the said block and engaging against the lower wall of said annular pocket and disposed between the lower circumference of the squeezer element and the lower wall of said annular pocket and a driver upon the said carrier connecting with the shaft to motivate the said squeezer element.

2,662,667

BIN DISPENSER

James C. Simon, Cleveland, Ohio

Application December 13, 1946, Serial No. 716,107
41 Claims. (Cl. 222—247)

1. In a dispenser of the type having a bin through which bulk articles gravitate, a plurality of relatively wide support members disposed one above another in the bin in spaced generally parallel relation; means mounting the support members for to-and-fro pivotal movement, a cross element carried by each support member in transverse relation to the pivotal axis of the member and extending laterally therefrom through one side of the bin, and a reciprocable member outside the bin having connection with the cross elements, said reciprocable member being manually operable to simultaneously oscil-

late the cross elements and thereby impart to-and-fro movement to the support members.



31. In a dispenser, a bin structure comprising spaced side panels, integral back, front, and bottom panels of sheet material extending between the side panels, the bottom panel being substantially flat and inclined upwardly from the front panel toward the back panel, the side panels each comprising a one piece substantially flat sheet member extending vertically substantially the full height of the rear panel and along the bottom panel substantially from the front panel to the rear panel, the back and front panels each being connected to the bottom panel by an integral curved panel portion having an article-supporting surface to which the surfaces of the panels connected by such curved panel portion are substantially tangent, and a supporting structure having flange means disposed flatwise against the panels adjacent the lines of intersection between the planes of the side panels and the surfaces generated by the other panels.

2,662,668
DISPENSING CONTAINER AND SLITTED RESILIENT VALVE THEREFOR
John Schmidt, Philadelphia, Pa., assignor to Crown Can Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 9, 1950, Serial No. 137,526
5 Claims. (Cl. 222—394)



3. A dispensing container for pressurized fluids comprising a valved closure having a cylindrical body member of resilient material, an integral annular flange extending laterally from the outer end of said body member and disposed in sealing engagement with an opening in said container, an axial bore entering the outer end of said body member and extending partially therethrough, a transverse slit extending from the periphery of said body portion to said bore in a plane substantially perpendicular to the axis of said bore and positioned intermediate said flange and the bottom of said bore, a tubular discharge member frictionally retained in said bore and extending therefrom, said discharge member having lateral passages communicating with the central passage therethrough adjacent the inner end thereof and generally aligned with the slit of said body member, and gripping means associated with said discharge member whereby said discharge member may be displaced axially and inwardly against the bottom of said bore, displacing the inner end of said body member against the internal pressure of said container and opening said slit, whereby the contents of said container may pass through said slit to the lateral passages of said discharge member and therethrough to the central passage thereof.

2,662,669
DISPENSING CONTAINER AND SLITTED RESILIENT VALVE THEREFOR
John Schmidt, Philadelphia, Pa., assignor to Crown Can Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 9, 1950, Serial No. 137,527
5 Claims. (Cl. 222—394)



3. A valved container closure for use with pressurized fluid containers comprising a cylindrical body member of resilient material, an integral annular flange extending laterally from the outer end of said body member, an axial bore entering the outer end of said body member and extending partially therethrough, said body member having a plurality of longitudinal slits extending therethrough from the inner end thereof at least to the bottom of said bore, said slits being angularly disposed relative to each other and intersecting at the axis of said body member, a counterbore in the outer end of said bore, a ring of rigid material positioned in said counterbore, and a tubular discharge member frictionally retained in said bore and extending therefrom, said discharge member being of reduced diameter adjacent said rigid ring.

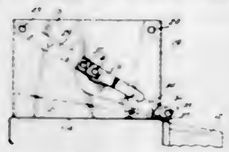
2,662,670
DISPENSING ATTACHMENT FOR BOTTLES
August Louis Voight, Berea, Ohio
Application July 15, 1950, Serial No. 174,017
5 Claims. (Cl. 222—478)

1. A dispensing attachment for a bottle or the like comprising, a stopper portion adapted to fit in the neck of a bottle and provided with two separate passages therethrough, a pouring spout integral with said stopper portion and communicating with one of said passages, and a flow controlling portion extending downwardly in spaced relation to said stopper portion for disposal exteriorly of the bottle adjacent the neck and substantially parallel with the latter when the said stopper portion is inserted therein, the said flow controlling portion having a passage therethrough communicating with the other of said passages in said stopper portion with the last-mentioned passage terminating at an aper-



ture located adjacent the lower end of said flow controlling portion for convenient engagement by a finger of an individual's hand holding the bottle for a dispensing operation, whereby starting and stopping of dispensing is effected by selectively uncovering and covering said aperture.

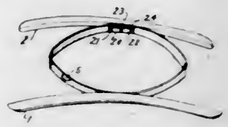
2,662,671
STOCK BIN
Louis T. Almas, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application August 27, 1949, Serial No. 112,815
5 Claims. (Cl. 222—505)



5. A stock supply bin comprising a pair of spaced facing end walls disposed generally vertically and having aligned side edges, a bottom disposed between said end walls and inclined downwardly to said aligned side edges, a side wall pivoted on a generally horizontal axis disposed upwardly from the lower edge of said inclined bottom for movement from a closed position in which the lower edge thereof is adjacent said lower edge of said bottom to an open position in which the lower edge thereof is outwardly spaced from said lower edge of said bottom to provide an opening for flow of material from said bin, a pair of flanges on the ends of said side wall extending inwardly adjacent said end walls, said pair of flanges in the open position of said side wall effectively forming extensions of said end walls to prevent flow of material from said bin in a direction transverse to said end walls, and means for limiting outward movement of said side walls, said means comprising a handle lever, a first lever arm having one end pivoted to one of said end walls and the other end pivoted to said handle lever at first point thereon, and the second lever arm having one end pivoted to said side wall and the other end pivoted to said handle lever at a second point spaced from said first point.

2,662,672
PRESSING FORM FOR GARMENT SLEEVES
Yervant Amber, Los Angeles, Calif.
Application November 5, 1951, Serial No. 254,861
2 Claims. (Cl. 223—72)

1. In a sleeve form device for clothes pressing establishments; a pair of elongated arm members having spring attachment means at their central portions, a single composite spring intermediate the arm members and fixed thereto at said



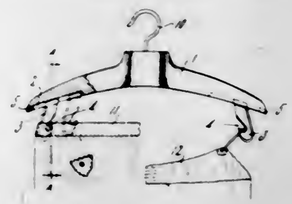
means, the spring consisting of an elliptical band which is severed at one of the said means so that the spring can be slipped into a flexible tube, and a single flexible tube covering the band.

2,662,673
SLEEVE EXPANDER AND/OR FORMER
Yervant Amber, Los Angeles, Calif.
Application May 10, 1951, Serial No. 225,563
5 Claims. (Cl. 223—74)



1. In an automatic stretcher device for garment sleeves and the like which comprises a principal top supporting arm with a handle portion at its rear end, a control lever pivoted to a portion of the handle and having an offset portion extended under the top supporting arm, a secondary arm pivoted to the forward end of the control lever, spring means in the handle portion which constantly forces the arms apart, and lever means pivoted to the handle which can be set to limit the separation of the arms, and said control lever having another offset rear end portion positioned over the handle.

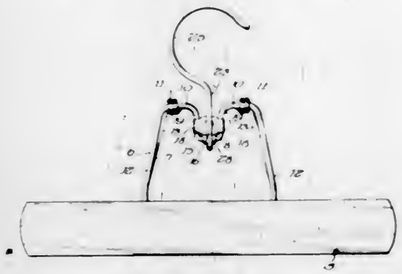
2,662,674
COMBINED TYPE GARMENT HANGER
Aristide Reguitti, Agnosine, Italy
Application November 17, 1949, Serial No. 127,861
Claims priority, application Italy April 27, 1949
1 Claim. (Cl. 223—88)



A garment hanger structure comprising two substantially downwardly curved arms for supporting a garment thereon, each of said arms being provided with an underface, downwardly diverging garment holding members disposed for sliding movement along predetermined portions of the underface of said arms, respectively, and interengageable formations, respectively, provided on said underfaces of said arms and on said holding members, said interengageable formations being constituted by grooves extending from the underfaces of said arms into the latter and

by tongues provided on said holding members, respectively, said tongues being of such reduced dimensions with respect to said grooves and with respect to the remainder of said holding members that said tongues normally move with play in said grooves, whereas when pressure is exerted angularly to said holding members upon loading same through engagement with a garment piece the holding members are canted to thereby brake the latter in desired positions with respect to said grooves of said arms.

2,662,675
GARMENT HANGER
Lloyd W. Walker, Blue Island, Ill., assignor to Lloyd W. Walker, William H. Walker, Kathleen D. Walker, and Rose E. Walker, all of Harvey, Ill., copartners doing business as Walker Metal Products Company
Application October 15, 1948, Serial No. 54,629
8 Claims. (Cl. 223—96)



1. A garment hanger comprising a pair of clamping bars, two hinged together bent up bar supporting rods operatively mounted on the clamping bars and each formed with an open loop projecting downward from the hinge connection between the rods, a coiled expansion spring transverse to the hinge connection and extending between said open loops and operatively connected thereto and clips, one rigidly attached to each loop and operatively attached to an end coil of the spring, and an L-shaped lever hinged on one of said loops and adapted to engage the other whereby during the clamping operation the clamping bars are clamped together compressing the spring and when the lever is unlatched the bars are opened by the action of the spring.

2,662,676

WITHDRAWN

2,662,677
GOLF TEE HOLDER
Harold O. Perry, Orinda, Calif.
Application May 15, 1950, Serial No. 162,061
1 Claim. (Cl. 224—5)



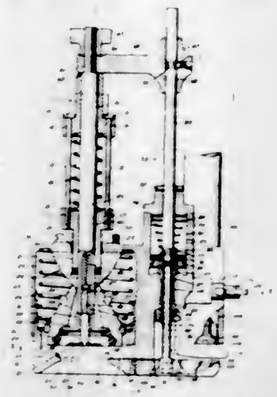
A golf tee holder for removable attachment to laced, ankle-high shoes provided with spaced lace-receiving grommets located longitudinally and centrally atop the instep of the shoe comprising a sheet of flexible material folded upon itself to form an elongated back portion and a front portion, the top of said front portion terminating below the top of said back portion, said front and back portions stitched together to form a plurality of tee-enclosing pockets arranged from top to bottom of the front portion and open at the top and closed at the bottom by the fold of said sheet, the open top ends of said pockets being of less diameter than the diameter of a tee head, and a plurality of spaced lace-receiving apertures formed in the back member adjacent to the top edge thereof and above the open ends of said pockets, said apertures spaced from one another in substantial conformity with the lace-receiving grommets of the shoe to which the holder is arranged for attachment so that said apertures substantially register with the lace-receiving grommets provided in the shoe and whereby the back member of the holder rests upon the shoe to which it is attached and depends from the lacing of the shoe and overlies the top of the instep portion of the shoe so that the portion of the holder below the lace-receiving apertures rides loosely on the side of the shoe, the bottom of the holder being spaced substantially above the sole of the shoe.

2,662,678
MERCURY DISPENSER
Harold E. Baker, Danvers, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application March 7, 1951, Serial No. 214,380
1 Claim. (Cl. 226—19)



Apparatus for dispensing measured amounts of mercury comprising: a rotatable turret moveable to a plurality of work stations; a reservoir fixedly mounted on said turret, said reservoir being of non-magnetic metal, having a body of mercury therein and an opening in the bottom thereof; a plunger of magnetic metal having a head and a shank disposed completely within said reservoir, said head being disposed immediately above the surface of the body of mercury, and said shank extending through the opening in the bottom of said reservoir and in sliding contact with the wall of the upper portion of said opening, said plunger having a recess cut in the periphery of its shank and normally disposed below that portion of the opening in the bottom of the reservoir with which the shank is in sliding contact; a cap of non-magnetic metal closing the top of said reservoir, and an electromagnet fixedly mounted above and in register with one of said work stations and disposed above, in close proximity, and, at all times, maintaining the same vertical spacing between itself and the cap of the reservoir for permitting unobstructed movement of said reservoir to a position beneath the electromagnet and in which position the electromagnet, without moving, is effective to reciprocate said plunger to carry the recess in the shank thereof into contact with the body of mercury in said reservoir and return with a drop of mercury therein.

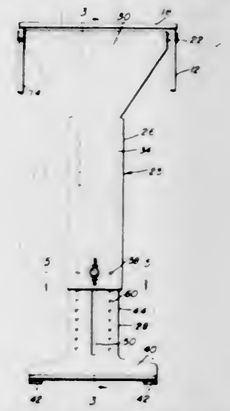
2,662,679
BOTTLE HOODING AND CAPPING MECHANISM
Rudolph Sonnenberg, Belvidere, Ill.
Application June 22, 1950, Serial No. 169,596
20 Claims. (Cl. 226—86)



1. A capping head for a bottle capping machine, comprising in combination, a capping mechanism operative in its capping stroke to apply a cap to a bottle intended to receive it, a magazine having a quantity of thin hood caps therein with said caps being in stacked relation, said magazine at one end carrying means for retaining within the magazine the cap at said end of the stack, and a cap extractor operated by said capping mechanism to move into engagement with said end cap while said retaining means holds said end cap within the magazine during the capping stroke of said capping mechanism and operative thereafter to pull said end cap past said retaining means out said end of the magazine for delivery directly to said capping mechanism.

2,662,680
STEPLADDER
Lawrence E. Bronson, Glendive, Mont.
Application October 1, 1951, Serial No. 249,109
8 Claims. (Cl. 228—21)

1. A step ladder comprising a front step portion, a journal rod secured in said step portion adjacent the top end thereof, an adjustable supporting leg, said leg including a flat tapered top portion having the end rolled to provide a tubular member embracing said journal rod, a reduced upper leg portion, said top portion merging into said upper leg portion, inturned edge portions on said upper leg portion, said inturned edges providing guide channels, a lower leg portion, said lower leg portion including a foot, a reduced leg member, inturned edges on said lower leg member providing guide rails on said lower leg member, said guide rails being slidably engaged in said guide channels, locking means for locking said leg members in a selected position.



2,662,681
FOLDABLE LADDER AND HINGE MEMBERS THEREFOR
Bruce E. Stapleton, Dallas, Tex.
Application July 31, 1948, Serial No. 41,776
6 Claims. (Cl. 228—23)

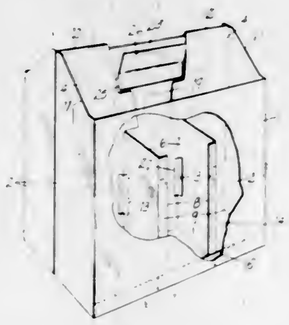
1. A foldable ladder having a plurality of ladder sections having side rails and cross rungs, and hinge means connecting the ends of the side rails of adjacent sections and having their pivot points on the under side of the side rails whereby the ladder sections may be swung from folded to rigid extended position, each of said hinge means including, a hinge plate secured on the outer side of each side rail section, an identical hinge plate secured on the inner side of each side rail section, said hinge plates having projections extending below the lower edge of the side rail sections, a pivot pin connecting the extending projections of the hinge plates in the plane of each side rail end, a reinforcing member extending between and secured to the hinge plates and to the associated side rail section, each reinforcing member being disposed below the lower edge of its associated side rail section to resist movement of the projections of the hinge plates toward the associated side rail section and resilient means for releasably restraining the hinge side plate members in position holding the side rails of the ladder section in extended position.

2,662,682
MULTICELL COLLAPSIBLE CARTON
Hubert Velman Bolding, Jeffersonville, Ind., assignor to The Bradley & Gilbert Company, Louisville, Ky., a corporation of Kentucky
Application November 9, 1951, Serial No. 255,617
5 Claims. (Cl. 229—28)



1. A cellular carton formed from a single blank of sheet material comprising side walls, end walls collapsible outwardly along their vertical median lines, a bottom wall collapsible inwardly along its longitudinal median line, a longitudinal partition centrally disposed within the carton integral with said bottom wall and movable upwardly into the carton on collapsing of the bottom wall, transverse partitions engaging said longitudinal partition at spaced points along its length, said transverse partitions being movable into face-to-face contact with said end walls and collapsible outwardly on collapsing movement of the end walls, and secondary longitudinal partitions engaging each transverse partition at spaced points along their lengths, said secondary longitudinal partitions being movable out of alignment with the remainder of the collapsed assembly.

2,662,683
COLLAPSIBLE PARTITIONED CARTON
Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan
Application October 13, 1952, Serial No. 314,425
7 Claims. (Cl. 229—28)



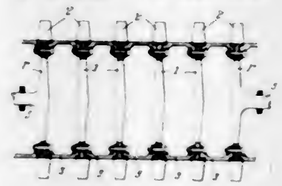
1. A collapsible partitioned carton comprising side walls, complementary end wall members hingedly connected to the ends of the side walls, pairs of end longitudinal partition members hingedly connected to the inner edges of said end wall members and hingedly connected to each other at their upper edges, the inner edges of the longitudinal partition members being spaced when the carton is in fully erected position, transverse partition members hingedly connected to the inner edges of said longitudinal partition members and having sealing flaps on their outer edges adhesively secured to the inner sides of the side walls, a first bottom member integral with and hingedly secured to the bottom edge of one side wall and provided with a hinged sealing flap on its inner edge, and an integral combined second bottom member and intermediate longitudinal partition and handle member formed of stock of relatively greater strength than that of the aforesaid parts, said second bottom member being hingedly secured to the inner side of the other side wall at the bottom thereof, said intermediate partition member being hingedly connected to said second bottom member, said first bottom member flap being connected to the outer side of said second bottom member, the width of the intermediate longitudinal partition member being approximately that of the width of the side walls, the side edges of said intermediate longitudinal member being recessed so that the central portions thereof do not protrude from between the end longitudinal members when erecting the carton, the upper edge of the intermediate longitudinal partition member being in supporting engagement with the connections for the pairs of end longitudinal partition members when the carton is in fully erected position, said intermediate longitudinal member having a handhold between said end longitudinal partition members.

2,662,684
CARTON STRUCTURE
Leonard J. Robins, Chicago, Ill., assignor to Add-A-Handle Corporation, Chicago, Ill., a corporation of Illinois
Application January 26, 1950, Serial No. 140,681
3 Claims. (Cl. 229—52)



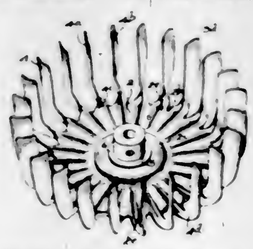
1. A carton having top and bottom walls, side walls and end walls from which a handle may be struck to expose the contents and provide means for carrying the carton the handle portion forming an integral part of the carton walls from which it is separable along weakened areas defining a strap which extends across a mid portion of the top wall and terminates in the upper portions of adjacent end walls, the end portions of the strap gradually decreasing in width from the terminal ends disposed in the end walls to a central portion of the top wall whereby the portion projecting through slots in the top wall when the strap is struck therefrom is of greater width than the formed slot to effect a gripping relation, flaps integral with the edges of the central section and extending laterally therefrom to the edges of the top wall, and tabs depending from the edges of the flaps to form adjacent portions of the side walls and capable of being struck therefrom for folding with the flaps to extend from the central section in the upward direction when in position of use.

2,662,685
ROTOR FOR FLUID MACHINES
Jacques Blanc, Bois-Colombes, France, assignor to Societe d'Exploitation des Materiels Hispano-Suiza, S. A., Bois-Colombes (Seine), France, a society of France
Application July 7, 1950, Serial No. 172,411
Claims priority, application France July 13, 1949
2 Claims. (Cl. 230—134)



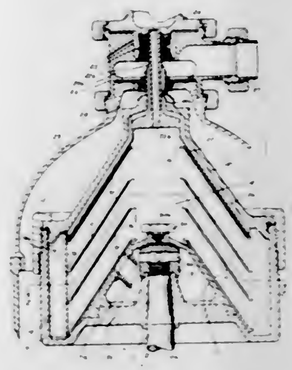
1. A rotor which comprises, in combination, a plurality of at least substantially solid coaxial discs, both sides of each disc peripheral portion having a cylindrical flange thereon, the radially inner surfaces of said flanges being cylindrical and coaxial with the disc axis on either face of its peripheral portion, at least one set of blades carried by each of said discs on its periphery, means for interconnecting said discs constituted exclusively by a plurality of cylindrical rings each interposed between consecutive discs and having edge portions of the cylindrical outer surfaces of said rings within and bearing against the corresponding cylindrical inner surfaces of said two discs, said edge portions including substantially radially inwardly directed flanges, and a plurality of bolts parallel to the common axis of said discs and said rings, each of said bolts extending through one disc and the inwardly directed flanges of the two cylindrical rings adjoining this disc on either side thereof for assembling this disc and these rings in the longitudinal direction, and rotor supporting shaft means constituted exclusively by two shaft elements rigid with the two end discs respectively and extending only on the outer sides of said two discs.

2,662,686
FAN WHEEL
Donald F. Wuerfel, Detroit, Mich., assignor to Edmund E. Hans, Detroit, Mich.
Application April 18, 1952, Serial No. 283,044
2 Claims. (Cl. 230—134)



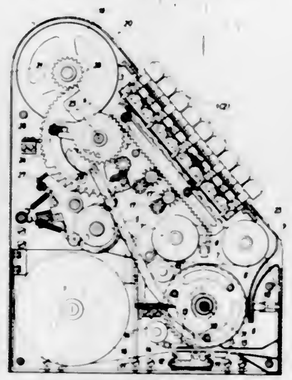
1. A fan wheel comprising an annular sheet metal disc having its inner annular portion dished or laterally offset relative to the outer peripheral portion of the disc, blades integral with and projecting from the disc, ribs or corrugations in the disc and projecting laterally outward from the side of the disc remote from its offset annular portion, said side constituting the outer face of the disc, each rib being substantially in radial alignment with one blade, each blade being folded from adjacent its inner extremity so that the outer portion of the blade extends longitudinally substantially parallel with the axis of the disc and transversely substantially radially to the disc axis, and said blades having said outer portions transversely curved whereby their leading faces are somewhat concave, each rib extending into an adjacent blade and terminating at the outer end of the blade between the side edges of the blade to form said transverse curvature, and the inner face of said disc having radial grooves therein extending outwardly from said laterally offset portion to said blades whereby air cannot lie dormant against the inner face thereof.

2,662,687
CENTRIFUGAL SEPARATOR FOR COLD MILK PRODUCTS AND THE LIKE
Hubert M. Spross, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application April 1, 1950, Serial No. 153,408
6 Claims. (Cl. 233—21)



1. In an air-tight centrifuge, the combination of a rotatable centrifugal bowl having a separating chamber, a stack of conical discs in the chamber forming thin separating spaces between the discs, the discs having central holes and the bowl chamber having within the edges of said holes a free space providing unobstructed communication inwardly from said edges toward the rotation axis of the bowl, said free inner space extending continuously through the disc stack and continuously around said edges, means outside said free space engaging the discs and forming a driving connection between the bowl and the discs, an axial feed pipe having an air-tight connection with the bowl, the bowl having a feed passage communicating with said pipe for leading the feed to the disc stack at a region spaced outwardly from said free space, the bowl also having a central light component outlet passage leading from one end of said free space and a heavy component outlet passage leading from the outer part of the separating chamber, a stationary discharge pipe outside the bowl and communicating with the central outlet passage, and an air-tight seal between the discharge pipe and the bowl to provide a closed path from said free space through the central outlet passage to the discharge pipe.

2,662,688
CASH REGISTER
Johannes Sobisch, Bielefeld, Germany, assignor to Anker-Werke, A. G., Bielefeld, Germany, a corporation of Germany
Application August 17, 1949, Serial No. 110,811
Claims priority, application Germany
October 1, 1948
3 Claims. (Cl. 235—2)



1. A printing cash register, comprising a key board having banks of keys, said banks being disposed in respective vertical planes, a printing device having a plurality of mutually adjacent type carriers coaxially revolvable in respective vertical planes and mounted underneath said key board, said latter planes having a narrow mutual spacing and said key bank planes having a wide mutual spacing compared with each other, a differential mechanism having a plurality of gear members controlled by said respective key banks and revolvable in respective vertical planes having said wide mutual spacing and connecting rods each having an upper end eccentrically pivoted on one of said respective gear members and having a lower end eccentrically pivoted on one of said respective carriers for adjusting said carriers, a plurality of said rods having bent portions so as to extend from one of said respective gear member planes to one of said respective carrier planes, and said rods being curved between their respective two pivot points in a direction parallel to said planes and away from said key board for widening the space between rods and key board, and said printing device having tape feed means and platen means mounted below said key board and above said carriers, and said tape feed means having a tape spool mounted in said widened space.

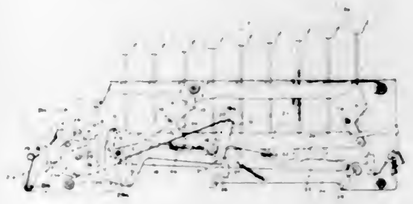
2,662,689
INTEGRATING APPARATUS
Roswell W. Gilbert, Montclair, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application September 29, 1951, Serial No. 248,923
3 Claims. (Cl. 235—61)

1. In apparatus for integrating an electrical quantity, the combination with an integrating instrument including a movable coil mounted for oscillation in a magnetic field and carrying a contact arm cooperating with a set of relatively fixed contacts, and a polarity reversing switch connected between the said movable coil and the source of the electrical quantity to be integrated, of a source of D.-C. potential, a pair of capacitors connected in series across said D.-C. potential source, an electro-magnetic counting mechanism including a coil having one side connected to the common side of the capacitors, a second reversing switch including a pair of stationary contacts individually connected to opposite sides of the



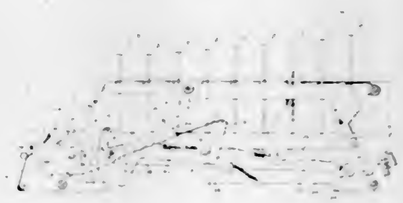
D.-C. potential source and a movable contact connected to the other end of the coil of the counting mechanism, said second reversing switch being controlled by the contacts of the integrating instrument.

2,662,690
NUMERAL WHEEL LOCKING MECHANISM
Christopher Frederick Webb, London, England, assignor to Bell Punch Company Limited, London, England, a British company
Original application November 22, 1948, Serial No. 61,348. Divided and this application February 25, 1950, Serial No. 146,186
Claims priority, application Great Britain
December 2, 1947
3 Claims. (Cl. 235—82)



1. In a calculating machine of the type referred to having a plurality of orders, each order including a plurality of keys, a numeral wheel, a pinion connected to said numeral wheel, means through which actuations of said keys produce variable movements of said numeral wheel, means for effecting transfer movements from the numeral wheel of one order to a numeral wheel of next higher order, and means normally positively locking said numeral wheel against rotation, said last mentioned means including a pawl normally held in non-yielding engagement with said pinion, a locking surface formed on said pawl and a catch in engagement with said locking surface preventing movement of said pawl, said catch comprising a pivoted lever normally arranged in engagement with said locking surface formed on the pawl and movable in one direction about its pivot and out of engagement with the locking surface on the pawl by the movement of said first mentioned means and movable in another direction about its pivot and out of engagement with the locking surface on the pawl by the operation of the transfer means.

2,662,691
NUMERAL WHEEL ACTUATING MECHANISM
Christopher Frederick Webb, London, England, assignor to Bell Punch Company Limited, London, England, a British company
Original application November 22, 1948, Serial No. 61,348, now Patent No. 2,569,508, dated October 2, 1951. Divided and this application February 25, 1950, Serial No. 146,187
Claims priority, application Great Britain
December 2, 1947
3 Claims. (Cl. 235—82)



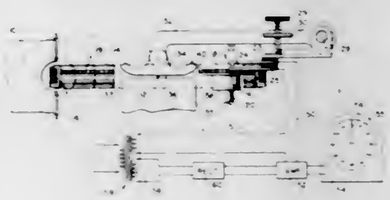
1. In a calculating machine having a plurality of keys each having a key stem, a numeral wheel, a pinion connected to said numeral wheel, and differential actuating means movable by said keys to produce variable movements of said numeral wheel, said means comprising a member movable longitudinally in response to depression of a key and being arrested by abutment against one side of a depressed key stem, a rack, a catch normally holding said rack out of mesh with said pinion, a spring urging said rack towards said pinion, and a trip bar having surfaces contiguous to the opposite sides of said key stems mounted for movement in a longitudinal direction, said trip bar being moved longitudinally by a key stem actuated by said longitudinally movable member upon effective actuation of a key to release said catch.

2,662,692
REVERSIBLE ELECTRONIC COUNTER
Georges Naday, Paris, France, assignor to Compagnie Generale de Telegraphie Sans Fil, a corporation of France
Application November 20, 1948, Serial No. 61,203
Claims priority, application France
December 18, 1947
5 Claims. (Cl. 235—92)



5. An electronic counter for counting numbers, comprising, in combination: a first trigger stage; a second trigger stage; a third trigger stage, each of said trigger stages including a first electron tube and a second electron tube, each of said electron tubes having a grid circuit and an anode, said anodes of said tubes in any of said trigger stages being connected, respectively, to said grid circuits of said other tubes of said trigger stage so as to block one of said tubes while the other is conducting, thereby imparting to said trigger stage one of two conductive conditions, said trigger stages indicating by the conductive conditions thereof the number to be counted; means connecting, respectively, said anode of said second tube of said first and second trigger stages to said grid circuits of said tubes of said second and third trigger stages so as to connect said trigger stages in cascade; a feedback connection connecting said anode of said first tube of said third trigger stage with said grid circuits, respectively, of said tubes of said first and second trigger stages so as to suppress three of the eight conditions of said trigger stages and to lower the scale thereof, correspondingly; a first input for additive impulses connected to said grid circuits of said tubes of said first trigger stage; means for producing subtractive impulses; and circuit means connecting said subtractive impulses producing means to said grid circuits of said tubes of said third trigger stage whereby on production of a subtractive impulse by said producing means said circuit means change the grid potentials of said tubes of said third trigger stage so that said anode of said first tube of said third trigger stage changes the condition thereof which is transferred to said grid circuits of said tubes of said first and second trigger stages, thereby changing the condition of at least one of said trigger stages and diminishing the number counted by said electronic counter by one unit.

2,662,693
COUNTER FOR COIL WINDING MACHINES
Walter Sivo, Georgetown, and Henry S. Walendzik, Danbury, Conn., assignors, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 19, 1951, Serial No. 227,194
4 Claims. (Cl. 235—92)



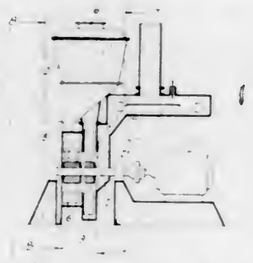
1. A counting device for a winding machine provided with means revolvable relative to a core for winding a strand on the core with a loop between the winding means and the core moved along a predetermined path each turn, which comprises an abutment positioned on one side of said path, an elongated shoe having a rounded end portion, means mounting the shoe pivotally at a point between the ends thereof and urging the shoe toward the abutment from the side of said path opposite that at which the abutment is positioned so that the loop of the strand pivots the shoe away from the abutment as the loop is advanced therebetween, a counter, and an arm secured rigidly to and projecting from one end of the shoe for actuating the counter when the shoe is pivoted by the loop of the strand.

2,662,694

TEMPERED AIR SWEPT PULVERIZER AND CLASSIFIER WITH COMMON FAN MEANS TO TRANSPORT UNCLASSIFIED MATERIAL AND PULVERIZED OVERSIZE PARTICLES TO THE CLASSIFIER

Otto Lotz, Oberhausen, Germany, assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Application April 22, 1950, Serial No. 157,519
Claims priority, application Germany
April 28, 1949
19 Claims. (Cl. 241—42)



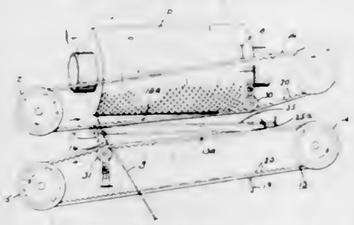
1. A pulverizing mill to which material is delivered by a feeder and comprising classifying means arranged to receive gas-borne particles and to discharge oversize particles therefrom, said mill having a milling zone to which said oversize particles are delivered, fan means arranged to effect the flow of two streams of gaseous fluid, stationary wall means defining a chamber for said fan means separate from said zone, means forming an outlet from said chamber for directing the first of said streams to said classifying means together with particles of said feeder delivered material, and means for directing the second of said streams through said milling zone and thence through said chamber to said classifying means together with material delivered to said zone by said classifying means, said milling zone being arranged to receive particles of material delivered thereto only from said classifying means.

2,662,695

STRAND TRAVERSE MECHANISM

Hyde W. Ballard, West Chester, Pa., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware

Application December 19, 1952, Serial No. 327,007
11 Claims. (Cl. 242—43)



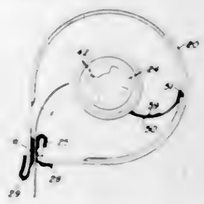
1. A traversing mechanism comprising a pair of belts mounted in juxtaposed position with respect to each other, a strand guiding span on one of said belts, an oppositely-facing and oppositely traveling strand guiding span on the other of said belts, said spans being biased with respect to the traversed path of the strand, strand engaging means of each of said belts, the length of said strand engaging means being such that the strand passes over the end of said engaging means at a pre-selected point in the strand traverse path.

2,662,696

FILM CARTRIDGE FOR PHOTOGRAPHIC CAMERAS

Hubert Nerwin, Irondequoit, N. Y., assignor to Graflex, Inc., Rochester, N. Y., a corporation of Delaware

Application March 29, 1951, Serial No. 218,230
4 Claims. (Cl. 242—71)



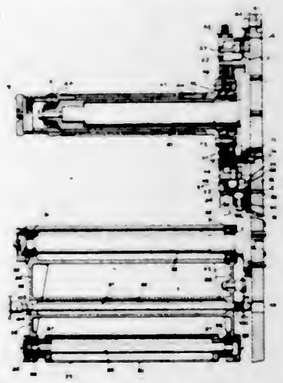
1. A roll film cartridge for photographic cameras comprising a housing having an axially-extending slot therein through which film may be introduced into or fed out of said housing, said housing being closed except for said slot, a core rotatably supported in said housing, and a member projecting from the periphery of said core, said member having a hook portion on its projecting end and being resiliently urged into proximity with the inside wall of said housing so that said member is in position to engage a perforation in the lead end of a strip of film after said lead end has been introduced through said slot into said housing and said core has been rotated to bring said projecting member into engagement with said perforation.

2,662,697

TENSION CONTROL APPARATUS

Einer W. Larsen, Elmhurst, and Jerome R. Marcus, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application April 15, 1952, Serial No. 282,358
9 Claims. (Cl. 242—75)



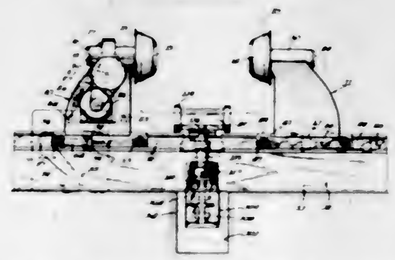
1. A tension control apparatus, which comprises a rotatable elongated material holder, means for advancing elongated material from the holder, a braking element keyed to the holder, a second braking element held against rotation for engaging the first braking element, a feeler responsive to tension on the material, means responsive to the feeler for exerting a force on the elements in one direction to move the braking elements together, yielding means urging the braking elements together in the opposite direction when the force from the element-moving means is below a predetermined value, and non-yielding means exerting a force on the braking elements in said last-mentioned direction when the force from the element-moving means is of or greater than said predetermined value.

2,662,698

DOUBLE CONE REEL

Frederick M. Littell, Chicago, Ill., assignor to F. J. Littell Machine Company, Chicago, Ill., a corporation of Illinois

Application April 20, 1951, Serial No. 221,985
10 Claims. (Cl. 242—78)



1. In coil handling apparatus, a longitudinal frame, a pair of coil supporting members mounted on said frame for movement toward and from each other, a shaft extending lengthwise of the frame and having a section at one end provided with right hand threads and a section at the other end provided with left hand threads, one coil supporting member having connection with the right hand threaded section and the other coil supporting member having connection with the left hand threaded section, driving means for rotating the shaft operatively connecting with one end of the shaft through a spline connection whereby to permit lengthwise movement of the shaft, and power means at the opposite end of the shaft for moving the same lengthwise.

2,662,699

FISHING REEL

Matthew E. Lee, South Bend, Ind.

Application April 27, 1950, Serial No. 158,577
1 Claim. (Cl. 242—84.7)



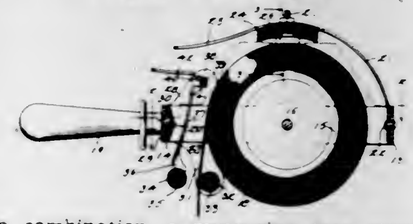
A fishing reel adapted to be mounted in a transverse passage extending through a longitudinally split fishing rod handle, comprising a cup-shaped housing having an end wall provided with a central aperture and having a lateral line-feeding aperture, an elongated shaft concentric with said housing and extending therethrough with its ends projecting therefrom, a spool rotatable in said housing with slight clearance and journaled and slidable on said shaft, one end wall of said spool being notched, a cross-pin carried by said shaft and adapted to seat in a notch, a sleeve encircling one end of said shaft and adapted to fit in one end of said handle passage spaced from said housing to journal said shaft, a coil spring encircling said shaft and bearing at opposite ends against said sleeve and said cross-pin, and a cover spanning the open end of said housing and having a central aperture journaling said shaft, said cover having a reduced thickness marginal portion defining a shoulder portion projecting into said housing with a snug fit to center said cover, a push button shiftable in said handle passage adjacent to and engageable with one end of said shaft and having a circumferential flange between its ends, and a coil spring fixedly secured at one end to said cover and encircling the portion of said button inwardly of said flange.

2,662,700

GAUGE REEL BRAKE AND WIPER

Jason E. Higgins, Kermit, Tex.

Application January 12, 1951, Serial No. 205,667
1 Claim. (Cl. 242—84.8)



In combination, a measuring tape structure comprising a frame formed of parallel opposite sides, and opposite ends, a supporting handle for said frame, a threaded stud carried by said handle engaging one of said ends, a tape drum rotatably disposed between said sides, a tape wound on said drum, a crank fixed relative to said drum, a U-shaped member straddling said one end, said stud extending through the bight of said member, a wiping roller rotatably carried by said member and engageable with one side of the tape, a spring-pressed lever rockably disposed between the sides of said member and depending between the sides of said frame, a finger engageable handle on said lever extending out of said frame, a second wiping roller carried by the lower end of said lever confronting the other side of the tape, a brake member carried by said frame and a second finger engaging handle on said brake member adjacent said first finger engaging handle in parallel relation thereto, whereby compression of said handles between the thumb and the forefinger may be effected while holding said supporting handle in the hand, simultaneously effecting engagement of said wiping rollers and said brake member with said tape, and release of said handles disengaging both said rollers and said brake to facilitate movement of said tape.

2,662,701

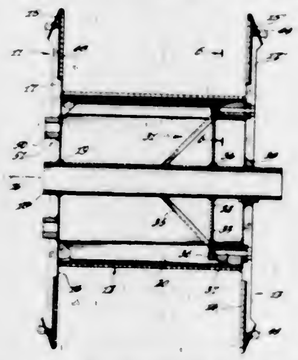
REEL APPARATUS FOR FORMING COILS OF CABLE

Otto R. Weber, Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware

Application August 17, 1950, Serial No. 179,900
3 Claims. (Cl. 242—111)

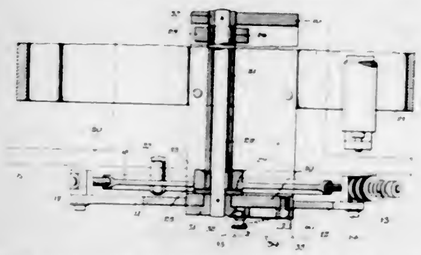
1. An apparatus for forming cable into coils comprising a plurality of arcuate segments aligned so as to form a segmented cylindrical arbor around which a coil of cable may be placed, a first

flange at one end of said arbor, means pivotally mounting to said flange the ends of said arbor segments adjacent thereto for pivotal movement of the segments in planes extending through the axis of the arbor, whereby the segments may be pivoted toward said axis so as to render the arbor tapered, a second flange at the other end of the arbor and movable axially with respect thereto toward said first flange, and co-acting cam means on said second flange and said segments for pivoting the latter outwardly away from the arbor



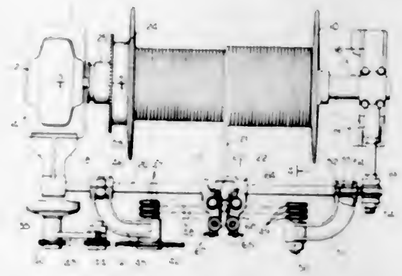
axis in response to movement of said second flange toward said first flange, wherein at least one of said segments is provided at its outer arcuate surface with a channel extending substantially from one of said flanges to the other thereof, and wherein said flanges are provided with grooves each extending from adjacent a respective end of said channel to the outer periphery of the flanges, whereby a tie wire may be placed within the channel with the ends of the wire extending through said grooves, and means adjacent the outer periphery of the flanges for securing said tie wire ends thereto.

2,662,702
REEL ARBOR LOCK
Carl O. Bruestle, Metuchen, N. J., assignor to Syncro Machine Company, Perth Amboy, N. J., a corporation of New Jersey
Application December 8, 1951, Serial No. 260,731
1 Claim. (Cl. 242—139)



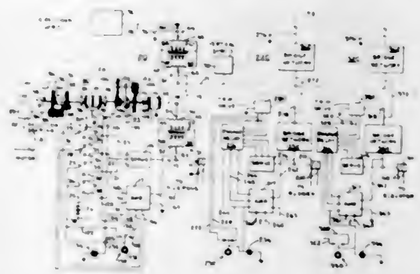
In a stranding machine, structure for locking a reel in place comprising, in combination, supports for a reel, horizontally aligned key openings in said supports, each opening being characterized by having a circular load bearing section and a narrowed entry section, a center arbor shaft spanning said supports, said shaft having at the ends thereof flattened sections to permit it to be fitted into said key openings, said shaft carrying at one end thereof a T-form flange joined thereto, the cross arm of said T being oriented parallel with said flattened sections on the end of said shaft, said flange having means thereon for receiving locking means for holding said shaft in a fixed position and an additional flange on said shaft adjacent to said flattened sections and perpendicular to the axis of said shaft thereby with said T defining two faces in fixed spaced relation.

2,662,703
AUTOMATIC WINCH ROPE WINDER
Howard D. Brown, Westfield, N. J.
Application December 8, 1949, Serial No. 131,777
3 Claims. (Cl. 242—158)



1. A strand guide attachment for winding apparatus, said attachment comprising a pair of vertically spaced guide rods, a carriage slidably engaging said rods, outwardly extending curved arms adjustably supported at end portions of the rods, free ends of said arms being disposed centrally with respect to said rods, groups of small diameter sprockets having horizontal shafts mounted in the free ends of said arms for maintaining said sprockets in predetermined spaced relationship to each other, endless chains operatively engaging said spaced sprockets, a pin slidably supported on the carriage, said pin having a special link engaging and constituting a link part of all of the chains for moving the carriage back and forth on said rods in the drive of said chains, and means including a reduction drive mechanism for driving one group of sprockets in actuation of the chains and said carriage.

2,662,704
AUTOMATIC PILOT
William L. Huntington, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 8, 1948, Serial No. 53,472
13 Claims. (Cl. 244—77)



1. Control apparatus for an aircraft comprising: motor means for altering the attitude of the aircraft about the turn, roll, and pitch axes; control means for each motor means, each control means including a balanceable circuit; position sensitive means for each circuit; operable means in each circuit for maintaining its control means balanced during attitude changes of said craft while said motor means is inoperative; a motor driven means normally operatively disengaged with all said operable means; and means controlled by each control means on unbalance thereof for effecting the operative engagement of its operable means with said motor driven means.

2,662,705
AUTOMATIC PILOT
John W. Anderson, Edina, and Robert R. Chapman, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 17, 1950, Serial No. 179,982
13 Claims. (Cl. 244—77)



2. Apparatus for operating power means adapted to adjust control surfaces of a dirigible craft comprising: a voltage responsive servo mechanism for controlling operation of said control surfaces power means; stabilizing means for producing a voltage in response to change in heading of said craft; computer means for producing a voltage in proportion to a desired heading; follow-up means for producing a servo mechanism operation limiting voltage, means for selectively applying said voltages to said mechanism including means for shifting control of said voltage responsive servo mechanism from said stabilizing means to said computer, and means to introduce gradually the controlled proportional operation of said control surfaces power means by said servo mechanism.

2,662,706
AIRCRAFT CONTROL SYSTEM
Willis H. Gille, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 21, 1947, Serial No. 730,022
16 Claims. (Cl. 244—77)

1. Flight control apparatus for an aircraft having two control surfaces, said apparatus comprising: control means responsive to the change of heading of said aircraft with respect to the direction of movement of said aircraft, control means responsive to the change of heading of said aircraft, operating means for said control surfaces, means including both said control means for controlling one operating means, and means



including said change of heading responsive means for controlling another operating means.

2,662,707
TIME DELAYED GROUND PROBE SWITCH
James O. Vann, Arlington, Mass., assignor to the United States of America as represented by the Secretary of the Air Force
Application May 23, 1952, Serial No. 289,704
7 Claims. (Cl. 244—138)
(Granted under Title 35, U. S. Code (1952), sec. 266)

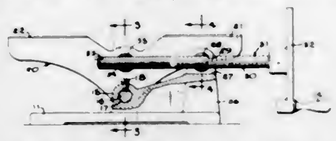


6. In a delayed ground probe apparatus for use in dropping cargo by parachute from aircraft, attached to the said cargo, a source of electrical energy, electrically activatable cutting means for cutting said cargo loose from the parachute with which it is dropped, an electric circuit including a delay action electric fuse, and an actuating switch, an associated circuit including the electrically activated cutting means and a probe-actuable switch, a resistor and said delay action fuse, said fuse having such an electrical value in relation to the current required to actuate said electrically actuable cutting means, that initiation of the fusing action of said fuse consumes enough electrical energy to prevent actuation of said cutting means until said fuse has been eliminated from the circuit and said probe-actuatable switch has been closed.

2,662,708
TILTABLE SUPPORT
Charles J. Schmitt, Chicago, Ill., assignor to Lovejoy Flexible Coupling Co., Chicago, Ill., a corporation of Illinois
Application December 29, 1950, Serial No. 203,357
4 Claims. (Cl. 248—23)

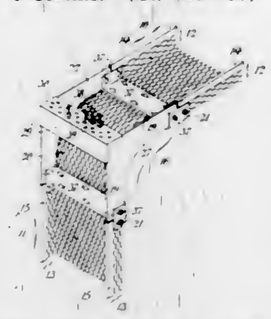
3. In a tilting support, the combination of, a base member, a supporting member mounted on said base member for swinging about an axis extending across the base member, a screw shaft extending transversely of said axis, threads of different pitch formed along opposite end portions of said shaft, two nuts, one threaded onto

each of said shaft end portions, a connection between one of said nuts and said base member, and a second connection between the other of said nuts and said supporting member, the con-



nection between at least one of said nuts and the associated member including relatively movable parts connected respectively to said one nut and said associated member to permit relative turning between the two.

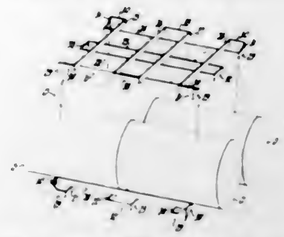
2,662,709
ANGLE CONNECTOR FOR ELECTRIC CABLE SUPPORTING TROUGH SYSTEMS
Frederick G. W. Ullberg, Jr., Philadelphia, Pa., assignor to T. J. Cope, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application November 15, 1951, Serial No. 256,463
6 Claims. (Cl. 248—68)



4. An angle connector for interposition between confronting ends of horizontally and vertically-arranged straightaway trough units fashioned from reticulate material, said connector comprising a component with a rounded transversely web of reticulate material and underslung U shaped straps with cross portions marginally overlapped by and attached to the ends of the transverse web; a component with parallel side members of angular configuration fashioned from stiff sheet metal and rigidly united at corners by a cross bar, the bights of said plates being curved to coincide with the rounding of the web of the first component, and the ends of the arms of said plates coinciding with the ends of said web so as to be overlapped to a corresponding extent by the upstanding ends of the straps when the components are placed with the ends of the cross web and the ends of the legs abutting the corresponding ends of the bottoms and the side flanges of the trough units; and smaller U shaped clamp straps corresponding to the straps of the first component and placed over the abutted edge margins of the transverse web of said first component for passage of securing means through the mutually overlapping portions of the trough sections and the connector.

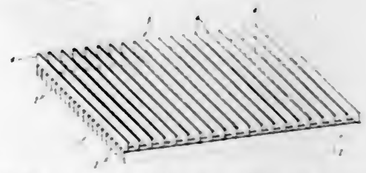
2,662,710
PALLET
Sidney D. Lapham, Martinez, Calif.
Application November 10, 1947, Serial No. 785,040
8 Claims. (Cl. 248—120)

1. An article handling pallet comprising: a first set of spaced, parallel, substantially rigid strip metal beams; and a second and identical set of spaced, parallel, substantially rigid strip metal beams fastened at right angles over and to said first set of beams in edge to edge relation with respect thereto and forming therewith a symmetrical, generally rectangular frame wherein the beams of either set of beams can be made to



serve as article supporting beams and wherein the height of said beams and the spaces between the beams of either set of beams are arranged to accommodate the forks of an industrial lift truck whereby said pallet can be lifted by said truck and whereby a load can be placed on or removed from said pallet by means of said truck.

2,662,711
PALLET
Sidney D. Lapham, Martinez, Calif.
Application April 10, 1948, Serial No. 20,300
3 Claims. (Cl. 248—120)

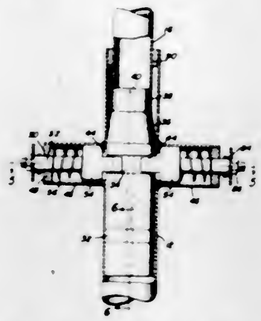


3. A pallet of the character described comprising: a first set of equally spaced flat metal strip rails arranged with their faces parallel to each other, and a second identical set of similarly arranged and spaced metal strip rails overlying and fastened to said first set of rails transversely thereof and in edge-to-edge relationship therewith so as to form a substantially symmetrical structure wherein either side thereof can be used to uniformly support a plurality of boxes and wherein the adjacent rails of each set of rails define unobstructed uniformly spaced ways of equal widths for the reception of the tines of the fork of a fork lift truck so that a load can be placed on or removed from said pallet by a fork lift truck and said pallet can be lifted by said truck.

2,662,712
TELESCOPIC MAST
Louis C. Rose, Petaluma, Calif.
Application September 21, 1950, Serial No. 186,044
3 Claims. (Cl. 248—161)

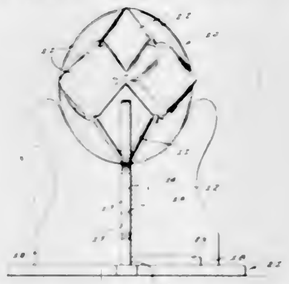
1. A telescoping mast comprising an outer member constituting a base for said mast, an inner member slidable in said outer member, means for applying fluid pressure into said outer member and below said inner member to cause relative sliding movement, a guiding and locking member having a reduced portion received in and secured to the inner member, said guiding and locking member having an outer diameter substantially equal to the inner diameter of said outer member, an annular groove in said

guiding and locking member, spring actuated latch means mounted on said outer member and passing through the wall thereof to engage in



said annular groove, said latch means being mounted on said outer member in fluid tight relation.

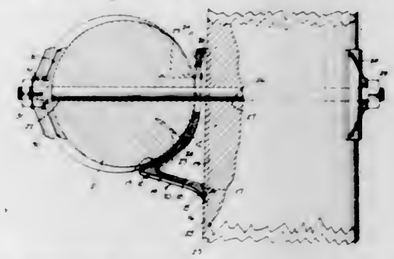
2,662,713
BASE FOR KNOCKDOWN STANDS
Charles E. Johnson, Degraff, Ohio, assignor of one-half to Paul D. Smith, Degraff, Ohio
Application May 16, 1949, Serial No. 93,550
5 Claims. (Cl. 248—194)



1. A knock-down stand comprising a base, at least two substantially resilient stand members mounted on said base, said stand members being adapted to be interfitted together in crossing relation, at least two opposed pairs of angularly disposed foot portions provided by said stand members, at least two spaced and opposed bosses affixed to said base, there being a boss interfitting between each opposed pair of foot portions and having side portions engaging the adjacent foot portions, and said side portions diverging at greater angles than said pairs of foot portions whereby to flex the same in opposite directions and maintain all of said foot portions in firm frictional engagement with said bosses.

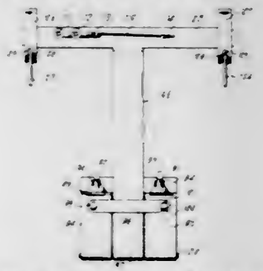
2,662,714
CROSS ARM SUPPORTING GAIN FOR ATTACHMENT TO TRANSMISSION LINE POLES
Kenneth C. Jenne, Branford, Conn., assignor to Malleable Iron Fittings Company, Branford, Conn., a corporation of Connecticut
Application June 11, 1949, Serial No. 98,574
4 Claims. (Cl. 248—221)

1. A gain, for use between the upright face of a vertical pole and the inner and lower sides of a horizontal cross arm of substantially circular cross-section to oppose the downward and inward force imposed by the cross arm, comprising a body member having a pole engaging rearward side having generally vertical pole engaging bearing surfaces, and a forward side including an upper generally vertical wall portion substantially parallel to said pole engaging bearing surfaces and of substantial length to constitute a vertically ranging cross arm engaging surface, a generally inclined wall portion extending downwardly and forwardly from said upper wall portion in down-



wardly divergent relation to said pole engaging bearing surfaces and of substantial length to constitute a downwardly and forwardly ranging cross arm engaging surface, the lower end of said inclined wall portion being the forward terminal of the body member, and a bottom wall portion extending inwardly from the lower end of said inclined wall portion and having a rearward end surface constituting a pole-engaging heel.

2,662,715
SUPPORT ATTACHMENT FOR BEDS
William Ed McKnight, Ferris, Tex.
Application September 10, 1951, Serial No. 245,817
2 Claims. (Cl. 248—226)

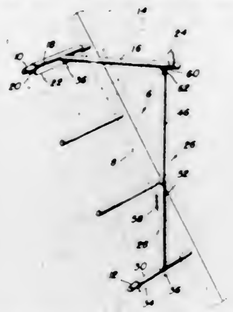


1. A support attachment for a bed having a side member including: a clamp attachable to said side member and having a base member extending laterally outwardly from said side member and an end portion at the outer end of said laterally extending portion extending at substantially a right angle with respect to said laterally extending portion; a standard pivotally secured at one end to said clamp member for pivotal movement about an axis lying parallel to and spaced from said side member into an upright supporting position parallel to said end portion of the base member; a latch pivotally secured to said end portion; and means on said standard engageable by said latch to limit pivotal movement of said standard.

2,662,716
SCAFFOLD ERECTING LADDER JACK
James P. Lowrey, Montgomery, Ala.
Application October 10, 1949, Serial No. 120,525
2 Claims. (Cl. 248—238)

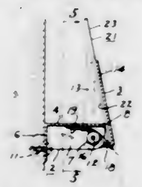
1. A ladder jack comprising a length of pipe constituting a plank supporting arm and hav-

ing an integral angular stop lug at one end and rung adapter means at its opposite end, a pair of telescopically connected pipes constituting a prop, the latter having a hingedly attached link hingedly connected at its upper end with said one end of said arm, and rung adapter means on the remaining end of said prop, said last-named



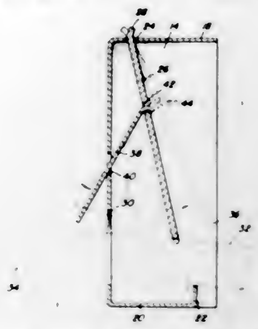
adapter means being a one-piece sheet material rung embracing clip channel-shaped in cross-section and provided with resilient snap-on flanges and an assembling and retaining bolt, the upper end of the upper pipe of said pair of pipes having a keeper notch at right angles to and for seating and retaining said one end of said arm.

2,662,717
HOLDER FOR POT COVERS OR THE LIKE
Elmer E. Johnson, Sausalito, Calif.
Application April 3, 1950, Serial No. 153,665
2 Claims. (Cl. 248—293)



1. A holder for a pot cover or the like comprising a bracket member having a base portion, means adjacent one end of said base portion adapted to be secured to a supporting surface with said base portion projecting perpendicular from said surface, a holder element extending always in substantially the same direction as said surface; means pivotally mounting said holder element adjacent the opposite end of said base portion with said holder element projecting transversely with respect to said base portion, said opposite end of said base portion forming a stop to limit movement of said holder element toward said one end of said base portion with the free end of said holder element positioned inwardly of said one end of said base portion whereby a space is provided between the free end of said holder element and said surface for reception of said cover; said holder element comprising a pair of prongs diverging outwardly from adjacent said bracket member, the outer end portions of said prongs having an opening therebetween and being angularly disposed outwardly from the plane in which the inner portions of said prongs lie to facilitate reception of said cover; and spring means between said bracket member and said holder element for urging said holder element toward said surface and said stop whereby the cover is adapted to be held between said surface and said holder element.

2,662,718
TOBACCO CURING STICK MOUNTING MEANS
Lucian E. V. Stickler, Miami, Fla.
Application February 27, 1950, Serial No. 146,510
3 Claims. (Cl. 248—309)



1. A tobacco stick holder comprising a box having an opening for the reception of the stick, a jaw pivotally mounted for swinging movement in said box and cooperable therewith for frictionally anchoring the stick therein, and means on the jaw engageable and operable by the stick for disengaging said jaw from said stick for releasing same for withdrawal from the box.

2,662,719
BARBER'S CLIPPER HOLDER
Joseph Hammond, Rockford, Ill.
Application January 7, 1948, Serial No. 829
3 Claims. (Cl. 248—314)



1. For supporting in a substantially vertical position with its clipper end down a hair clipper of the type including an elongated body provided with a clipper comb member transversely of one end and in a plane at an inclination to the longitudinal axis of the body, a holder comprising an elongated plate-like back member adapted to be supported vertically, a U-shaped yoke extending outwardly from the lower end portion of the back member and forming with the back member an open-ended housing adapted to receive the comb end of the clipper, an abutment extending in a plane outwardly and downwardly from the back member to terminate at a spaced distance from the yoke front to provide a hair clipping escape opening in the housing bottom, said abutment inclination corresponding to that of the clipper comb whereby said abutment conforms to and supports the comb end of the clipper in the housing, and a downwardly and inwardly inclined wedge pad positioned centrally on and intermediate the length of the back member and above the yoke to space said clipper body from the back member so that the front thereof has engagement with the outermost housing wall.

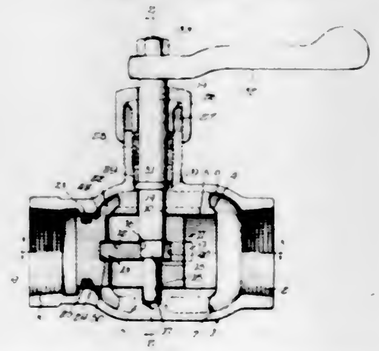
2,662,720
VIBRATION ISOLATOR DEVICE
John W. Patton, Philadelphia, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application November 19, 1948, Serial No. 60,909
4 Claims. (Cl. 248—358)



1. A vibration isolator device for use between a furniture leg and a supporting stud having a threaded shank comprising, a rubber member having a bowl-shaped upper portion and a cylindrical base portion of less diameter with a central aperture therethrough, an internally threaded sleeve in the aperture of the base portion of the rubber member for receiving the stud shank, a flanged metal annular base member fitting over the cylindrical base portion of the rubber member formed with a bottom opening for receiving said sleeve therein, said cylindrical base portion of the rubber member being bonded to the flanged metal annular base member and to said threaded sleeve, and an imperforate metal plate for attachment to the furniture leg entirely overlying the open top of the bowl-shaped upper portion of the rubber member to which the latter is bonded

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2,662,721
VALVE
Charles A. Glauque, Berwyn, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 8, 1948, Serial No. 25,883
1 Claim. (Cl. 251—40)

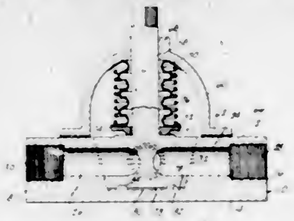


A valve comprising a casing having a cylindrical portion, a plunger type closure member mounted within said cylindrical portion for sliding reciprocal movement therewithin, said closure member being of cylindrical outer configuration in the direction of reciprocal travel thereof and having an annular groove adjacent one end, said casing having a bored portion spaced from said cylindrical portion thereof and of substantially the same inside diameter as that portion, a deformable resilient ring element received within the annular groove of said closure member and engageable with the surface of said bore at substantially one end limit of closure movement to form a seal between the casing and said closure member under the action of fluid pressure exerted thereon, said ring element being engageable with the inside surface of said cylindrical portion of the casing at substantially the other end limit of movement of the closure member to withdraw said ring element from the line of fluid flow through the casing, said closure member being of such length as to permit the end thereof adjacent said ring element to be substantially even with the end of said cylindrical portion nearest said bored portion when said closure member is in said other end limit of movement to provide for substantially unobstructed smooth flow around said nearest end of said cylindrical portion, said casing having an exterior wall portion containing said cylindrical portion and spaced from the same to provide for free fluid flow around said portion, said wall portion being outwardly flared adjacent each end thereof, said ends extending beyond said cylindrical portion in opposite directions, one of said ends joining said bored portion of the casing, the flaring of said end originating at the end of the bore in said bored portion nearest said cylindrical portion, elongated means between said wall and cylindrical portions only at the top and bottom to support the latter portion and to provide for unobstructed fluid flow between the portions, stem means journalled within said casing above and below said closure member and intersecting said latter member, said stem means extending through the upper elongated supporting means and into the lower elongated means being contained within both of said means, said closure member being horizontally slotted therethrough intermediate the ends thereof, a cam plate within the slot in said closure member, said cam plate being eccentrically mounted on said stem means for rotation therewith, said cam plate being adapted to bear against the end surfaces of the closure slot to move the latter member into either of the end limits of movement alternatively, said cylindrical portion of the casing being horizontally slotted at each side in horizontal alignment with the slot in said closure member for reception of said cam plate intermediate the end limits of movement of said closure member, said slots of the cylindrical portion communicating with the flow space around said portion, said cam plate being of such size as to project through either of said slots in the cylindrical portion and substantially within the communicating flow space on either side when the closure member is moving intermediate the end limits.

2,662,722
FLUID FLOW DUAL PORT CONTROL VALVE
Sam F. Graziano, Tampa, Fla.
Application January 30, 1951, Serial No. 208,639
1 Claim. (Cl. 251—97)

In a valve for fluid flow lines, a block one face of which is flat and has a recess formed with a bottom wall spaced inwardly from said face, the recess having a side wall tapering in the direction of the bottom wall to provide a tapered valve seat, said block having inlet and outlet channels communicating with the recess through the side wall at locations spaced circumferentially thereof; a tapered, apertured valve core rotatable and axially shiftable in the seat, said core being rotatable to selected positions relative to the channels for controlling fluid flow therethrough and having a smaller end spaced closely from the bottom wall;

a valve stem coaxial with the core and rigidly secured to the larger end thereof; a hollow bell-shaped housing rigid at its larger end with the block and circumposed about the stem, the housing having an opening in its smaller end through which the stem projects and in which the stem is rotatable and axially shiftable; a bearing ring circumposed about the stem within the housing and having one face engaging the larger end of the core, the core being rotatable relative to the ring; a bellows circumposed about the stem and having end flanges formed thereon directed outwardly of, and sealably and fixedly secured to, said smaller end of the housing and ring respectively; a spring circumposed about the bellows and abutting at opposite ends against said flanges



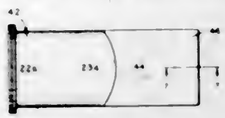
thereof, said spring being arranged to exert a continuous, yielding pressure toward and axially of the core to urge the core into said seat; a plurality of semispherically detents integrally formed on said bottom wall of the valve seat and projecting toward the smaller end of the core, said smaller end of the core having circumferentially spaced, semispherical recesses equal in number to and releasably interengageable with the detents in selected, flow controlling positions to which the core is rotated, for retaining the core against movement from said positions, said detents being adapted, responsive to rotation of the core, to bias the core axially thereof against said spring pressure, whereby to permit rotatable movement of the core between said positions thereof.

2,662,723
CHECK VALVE
Irven E. Coffey, Clayton, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application January 10, 1950, Serial No. 137,811
1 Claim. (Cl. 251—119)



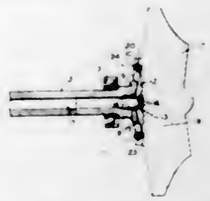
A valve and seat assembly comprising a seat structure with a valve seating face and a central opening and ports spaced therefrom, said opening extending in a direction away from said face and flaring outwardly in said direction, a one-piece valve formed of resilient material including a disk overlying said face and said ports and means to anchor said valve on said seat including a centrally projecting tubular shank with a hollow interior opening through said disk and closed at its other end, said shank having a part extending within the area defined by the flaring portion of said central opening and having its wall thickened at said part, and a ball of greater diameter than said hollow interior of said shank when said shank is unstretched, said ball being seated at the bottom of said hollow interior to expand said closed end and thereby tension said valve on said seat, and to maintain said thickened wall portion resiliently lodged against the flaring wall of said central opening for restraining said shank from longitudinal displacement within said opening.

2,662,724
CHECK VALVE
Cut Kravagna, Los Angeles, Calif.
Application December 27, 1948, Serial No. 67,266
1 Claim. (Cl. 251—122)



A check valve member comprising a resilient, tubular body having a thick walled cylindrical inlet end portion, a tapered, intermediate section having a wall tapering in thickness, and a flat outlet end portion in the form of a pair of relatively thin walls normally lying flat in contact with each other, said walls being secured at their sides and being free to expand to form a longitudinal passageway through said valve member, said valve member being secured so that the flat walls of the outlet portion lie in a horizontal plane, the upper wall only having a bead extending transversely across the terminal end thereof so as to weight down the terminal end of the upper wall and bias said end toward sealing contact with the terminal end of the lower wall.

2,662,725
TURBINE WHEEL ASSEMBLY
John R. McVeigh, Latrobe, Pa., assignor to Kennametal Inc., Latrobe, Pa., a corporation of Pennsylvania
Application February 23, 1950, Serial No. 145,635
10 Claims. (Cl. 253—39.15)



1. A turbine wheel assembly comprising the combination of a supporting shaft having a spider fixed thereon, a turbine wheel provided with a seating portion for the spider, a flange fixed to the wheel surrounding the seating portion and provided with an annular inwardly-opening groove, cooperating centering means on the end of the shaft and the seating portion, a resilient, radially-expansible split ring seated within the groove of the surrounding flange with a portion adapted to engage the spider, and means formed on the ring and flange for causing said ring to engage said spider against the seating portion of the wheel.

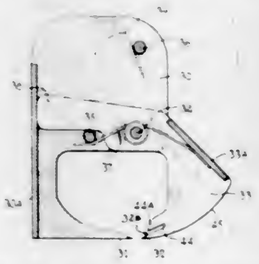
2,662,726
INTERMITTENT IMPACT WATER WHEEL
Percy H. Thomas, Washington, D. C.
Application April 30, 1947, Serial No. 744,825
1 Claim. (Cl. 253—148)

The method of interchanging hydraulic and mechanical energy which consists in axially projecting a stream of water on a rotating element moving at a greater peripheral speed than the velocity of said stream and at a small angle to a plane transverse to said stream while maintaining a low pressure on the under side of said element to produce a useful torque in a direction transverse to said stream by impact, suppressing the tendency of the torque reaction to produce reverse rotation in said stream by making the



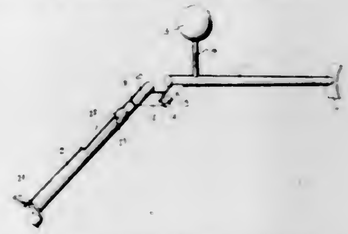
impact action rapidly intermittent and timing the intervals between successive impacts of a filament of water so that each incipient rotational motion of the filament is suppressed by momentarily permitting free axial movement of adjacent filaments, thereby causing each repetition of the impact action of a filament to start substantially without rotation of said filament around the axis of said rotating element.

2,662,727
STAPLE REMOVER
John A. Yerkes, New York, N. Y.
Application February 17, 1949, Serial No. 76,879
4 Claims. (Cl. 254—28)



1. In a staple remover for extracting clinched staples from materials, the combination of a lifting jaw having a sharp tip adapted for entry under the bridge of a clinched staple and having an upper lifting surface adjoining said tip for engaging under and lifting said bridge; a guard jaw having a sharp tip for entry under said bridge and having an upwardy extending surface adjoining its tip, said surface comprising a backup surface for facilitating entry of said guard jaw tip under the bridge of said staple; said guard jaw having a lower ironing surface adjoining said tip; a pivot connecting both jaws and being fixed relative to both jaws around which said jaws may be swung; the tips of said jaws being substantially equidistant from said pivot when said jaws are in their inoperative position, as said lifting jaw is manually swung relatively toward said guard jaw, the tips of said jaws simultaneously enter under the bridge of said staple, said lifting surface and said backup surface entering under said staple bridge; said lifting surface being constrained by said pivot to swing in a predetermined arcuate path around said pivot; said guard jaw being positioned so that its tip intersects said arcuate path and with its upper surface so formed as to recede away from said path so that the bridge of said staple will be lifted by said lifting surface out of contact with said upper surface of said guard jaw before said staple legs are substantially unclinched; said ironing surface of said guard jaw remaining under the bridge of said staple and above the clinched legs of said staple during the entire act of extraction and pressing downwardly by reactive force against the stapled material and against said clinched legs to unbend said legs downwardly as said bridge is lifted upwardly by continued manual relative swinging of said lifting jaw until said staple is completely extracted.

2,662,728
BRAKE PEDAL HOLDING DEVICE
Roger A. Hanes and Herman E. Luebbers, Fort Dodge, Iowa
Application May 21, 1951, Serial No. 227,378
4 Claims. (Cl. 254—119)

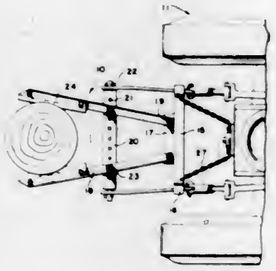


1. In a brake pedal holding device, a tubular member having a slot therein near one of its ends, a seat frame engaging element secured to the other end of said tubular member, a spring catch secured to the outside of said tubular member and having its end extending into the slot in said tubular member, a notched rod in said tube and slidable therein when said notches are misaligned with said spring catch, a rod member, an arcuate shoe secured to one end of said rod, a hinge bar secured to the other end of said rod, a hinge bar secured to one end of said notched rod; said hinge bars extending beyond the end of said rods and having holes therein that are beyond the ends of said rods, a pin extending through the holes in said hinge bars and securing them together hingedly, and a handle rigidly secured to one of said rods and extending therefrom a substantial distance.

2,662,729
POST PULLER
Howard D. Fountain, Iowa City, Iowa
Application October 10, 1950, Serial No. 189,443
2 Claims. (Cl. 254—132)

1. A post puller adapted to be attached to a power driven vehicle having a lifting mechanism, pivotally mounted supporting members extending rearwardly of the tractor in parallel relationship and a connection between the lifting mechanism and the supporting members to move said members about their pivots comprising a transversely extending bar adapted to be detachably secured to said supporting members, a pair of

arms pivotally connected to the said transverse bar for movement about a vertical axis toward and away from each other and extending longitudinally from said bar, a blade secured to each of the said arms adjacent the free end of each arm with the cutting edge of each of the blades extending beyond the edge of each of the arms,



a second bar extending between the supporting members in spaced parallel relation to the first named bar, said second bar having a plurality of spaced apertures therein and a locking device cooperating with one of said apertures and the bar to secure the arms to the second bar in the desired position.

2,662,730
POWER LINE LIFT POLE
Wayne B. Crawford, Houston, Tex.
Application October 31, 1950, Serial No. 193,055
1 Claim. (Cl. 254—134.3)



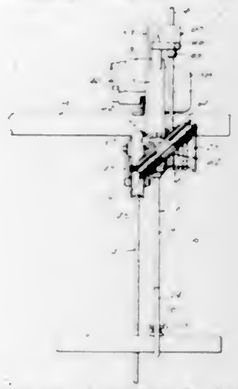
For use with a power line pole, an attachment for lifting a power line on the pole comprising a support attachable to the pole, a telescopic extensible rod including outer and inner sections, means swivelly connecting the outer section to said support for vertical swinging of said extensible rod, means on the inner section for holding a line, means operatively connected to said sections for extending the extensible rod, a mounting plate attachable to said pole above said support, a bracket on said inner section, a cable and pulley for swinging said extensible rod connected to said bracket and mounting plate to cause vertical swinging of the extensible rod upon extension of said rod, and a guide rod for said extensible rod pivoted to said bracket and slidably and swivelly connected to said mounting plate for sliding by extension of said extensible rod.

2,662,731
CABLE PULLING ATTACHMENT FOR VEHICLE WHEELS
Thomas P. Smith, Manistique, Mich.
Application October 20, 1952, Serial No. 315,622
3 Claims. (Cl. 254—166)



1. In a vehicle having rear driving wheels and front bumper mounting arms; a cable pulling attachment for the vehicle comprising a pair of cable drums removably secured to the rear wheels, a pair of cable guide units, means removably securing the guide units to said arms, and a cable terminally attached to said drums and extending through said guide units, each of said cable drums including an inner flange, rigid cup elements secured to the rims of the driving wheels, and means securing the inner flanges of said drums to said cup elements, and radially adjustable fastening means carried by said cup elements engaging the rims of said driving wheels.

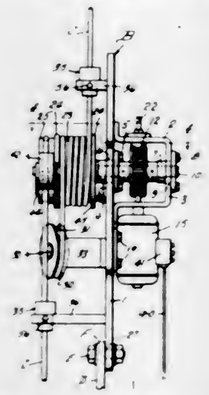
2,662,732
SCAFFOLD HOISTING MECHANISM
Ralph Allenbaugh, Mansfield, Ohio, assignor of one-half to Wilberd F. Feigenbaum, Mansfield, Ohio
Application July 1, 1949, Serial No. 102,488
7 Claims. (Cl. 254—176)



1. In a hoisting mechanism adapted to move up and down a suspended cable the combination of a frame; a guide sleeve secured to said frame; a shaft rotatably supported by said frame below said guide sleeve; power means by which said shaft is rotated carried by said frame; a drum rigidly secured to one end of said shaft; a pulley rigidly secured to the other end of said shaft; said cable being adapted to extend down through said guide sleeve and around said drum a plurality of turns and then under said pulley; and means operative to hold said cable in engagement with said pulley.

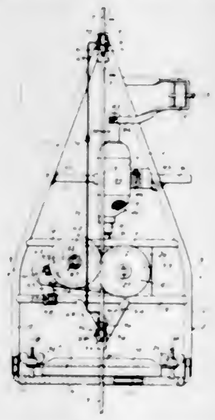
2,662,733
SCAFFOLD HOISTING MECHANISM
Ralph Allenbaugh, Mansfield, Ohio, assignor of one-half to Wilberd F. Feigenbaum, Mansfield, Ohio
Application November 6, 1950, Serial No. 194,335
3 Claims. (Cl. 254—176)

1. A hoisting mechanism adapted to move up and down a suspended cable, said hoisting mechanism comprising a frame, a shaft rotatably supported by two spaced bearings carried by said frame with one end of said shaft extending out from one of said bearings, a worm gear secured to said shaft between said bearings, a worm meshing with said worm gear, means for rotating said worm, a drum about which said cable is wound a plurality of turns, said drum being secured to



the extending end of said shaft, a pulley about which said cable passes after leaving said drum, said pulley being secured to said shaft at one side of said drum, an idler pulley operative to guide said cable from said drum and onto said first mentioned pulley, and means operative to resiliently press said cable into engagement with said first mentioned pulley.

2,662,734
SWING STAGE SCAFFOLD
Ralph Allenbaugh, Mansfield, Ohio, assignor of one-half to Wilberd F. Feigenbaum, Mansfield, Ohio
Application June 13, 1952, Serial No. 293,322
20 Claims. (Cl. 254—176)



1. A swing stage scaffold comprising a suspended cable, a stirrup adapted to support a plank, a guide sleeve through which said cable passes carried by said stirrup at the upper end thereof, a gear case carried by said stirrup below said guide sleeve, a shaft rotatably mounted in said gear case with one end thereof extending out from said gear case, power means by which said shaft is rotated in either direction carried by

said gear case, a drum about which said cable is wound a plurality of turns after it leaves said guide sleeve, a traction pulley around which said cable passes after leaving said drum, said drum and said traction pulley being secured to the extending end of said shaft, a lever having one end thereof pivotally secured to said stirrup, a pressure wheel carried by said lever in alignment with said traction pulley, an idler pulley carried by said lever in offset relation to said pressure wheel, said idler pulley being operative to guide said cable onto said traction pulley after it leaves said drum, said pressure wheel being operative to hold said cable tight against said traction pulley, and said traction pulley being operative to withdraw said cable from one end of said drum at the same linear speed that said cable is being wound onto the other end of said drum.

2,662,735
APPARATUS FOR DRILLING DEEP WELLS
Armais Arutunoff, Bartlesville, Okla.
Application November 18, 1948, Serial No. 60,709
11 Claims. (Cl. 255—4.8)

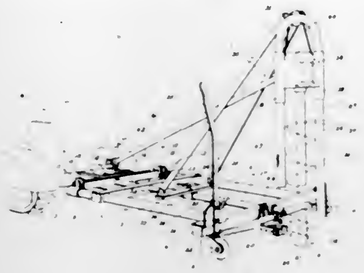


1. An anti-rotation device for a deep well drill comprising a hollow central body with longitudinal grooves, torque shoes pivoted against the bottom portion of said longitudinal grooves, said torque shoes having holes therein, fingers on the ends of said torque shoes, upper and lower rings rotatably mounted on said body, radial grooves in said rings controlling through the fingers on said shoes the position of said shoes, wall contact spring pieces connecting said rings, and hinges welded to said body and passing through said holes in said torque shoes.

2,662,736
TRACTOR MOUNTED ADJUSTABLE POST HOLE DIGGER
William A. Abrams, Pittsburg, Calif., assignor of one-third to Warren B. Abrams, Pittsburg, and one-third to Luigi Arata, Antioch, Calif.
Application February 19, 1952, Serial No. 272,447
4 Claims. (Cl. 255—19)

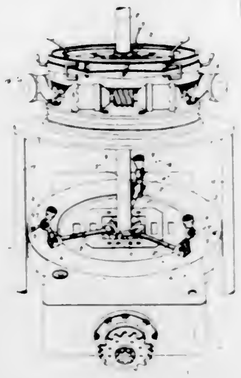
1. A mount for a post hole digger which includes an upstanding guide frame, and a driven auger mounted on the guide frame for up or down motion; said mount comprising a supported main frame, a longitudinal shaft journaled on the main frame, normally fixed but releasable means to rotatably adjust the shaft, a yoke on the shaft, said guide frame and yoke both having transversely spaced legs, means piv-

oting the guide frame legs adjacent their lower ends to corresponding yoke legs for longitudinal



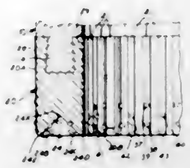
swinging adjustment of said guide frame, and normally fixed but releasable means to so swingably adjust the guide frame.

2,662,737
AUTOMATIC CONTROL OF SLIPS OF DRILL PIPE STRINGS OF SOUNDING HOLES
Vladimir Edelberg, Tunis, Tunisia
Application January 31, 1947, Serial No. 725,422
2 Claims. (Cl. 255—23)



1. In an automatic slip control appliance of drill-pipe strings for sounding holes, a combination comprising a rotary table with a central aperture for the passage of said pipe string and a conical seat arranged coaxially thereto to receive said drill-pipe string, a plurality of slips disposed around said string and lodged within said conical seat, bell-crank levers to support said slips and having their bends pivotally secured to said table, each of said levers comprising a long substantially horizontal arm to the end of which is pivotally attached a slip, and a short substantially vertical arm, a platform adapted to be displaced vertically above said table, tongs supported by said platform for making and breaking the joints of pipe string, means for raising and lowering said platform to bring it in operative relation with said vertical short arms of the bell-crank levers, whereby said levers are caused to swing and the slips are lifted out of their conical seat when said platform is lowered, and a central aperture provided in said platform to receive the slips in their lifted positions.

2,662,738
CORE BIT
Frank F. Davis and Stewart G. Richmond, Minneapolis, Minn., assignors to E. J. Longyear Company, Minneapolis, Minn., a corporation of Delaware
Application March 23, 1950, Serial No. 151,484
9 Claims. (Cl. 255—72)



1. A bit for core drilling, said bit being in the form of a tube having a coupling portion at one end, the opposite end surface of the tube forming the face of said bit, said face of said tube having at least one groove therein substantially concentric with the axis of the tube and located between the outer and inner surfaces of said tube defining at least two substantially continuous concentric crests at substantially the outer and inner surfaces of the bit, said crests projecting in the drilling direction beyond intervening drilling surfaces of the bit, said bit being characterized by having hard cutting granules embedded in substantially tracking relationship in said concentric crests.

2,662,739
PRECAST PICKET FENCE
Milton W. Fisher and Edward G. Fisher, Miami, Fla.
Application August 27, 1951, Serial No. 243,778
1 Claim. (Cl. 256—19)



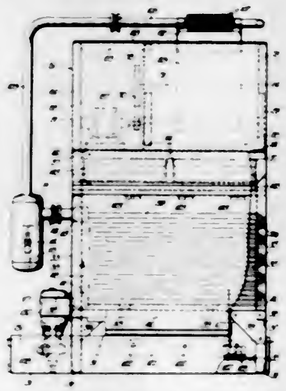
A fence structure comprising a plurality of spaced posts having side faces with the side face of one post opposing the side face of an adjacent post, each of said side faces having an inwardly tapered upper recess and an inwardly tapered lower recess, upper and lower rails connecting adjacent posts together, said upper rail having tapered ends secured in the upper opposing recesses of the two posts it joins, said lower rail having tapered ends secured in the lower opposing recesses of the two posts it joins, said upper rail having a plurality of longitudinally spaced openings therein, a plurality of spaced parallel pickets extending upwardly through the openings and having lower ends secured to the lower rail, said lower rail having a plurality of longitudinally spaced downwardly and inwardly tapered recesses therein, said pickets having tapered lower ends secured in said plurality of recesses, and a paint covering the pickets, rails and posts and entering the recesses and openings to secure the rails to the posts and the pickets to the rails.

2,662,740
FENCE POST CLIP
William E. White, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application June 9, 1951, Serial No. 230,764
5 Claims. (Cl. 256—48)



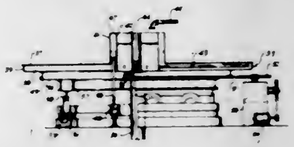
1. A resilient clip for attaching line wires to a U-section fence post having vertically spaced central holes, comprising an elongated shank portion, an angularly bent portion adapted to be inserted through a hole and press tightly against the rear face of the post, a line wire retaining portion intermediate the shank and offset portions, and a terminal hook portion adapted to engage one side of the post.

2,662,741
CONDENSER COOLING UNIT
John R. Boyle, Chicago, Ill., assignor to Buildice Company, Inc., Chicago, Ill., a corporation of Illinois
Application September 13, 1948, Serial No. 48,951
13 Claims. (Cl. 257—57)



1. In cooling apparatus of the class described comprising a cooling chamber having a cooling coil assembly therein, and a fan above said chamber for drawing air upwardly therethrough in contact with said coil assembly, the combination of a base pan for receiving a liquid and affording a foundation for said cooling apparatus, a main frame structure adapted to be erected within said pan comprising two end plates supported in spaced relation upon the bottom of said pan with the bottom of said pan serving as a uniform supporting foundation for said end plates and the side walls of said pan preventing outward separation of the lower ends of said end plates, said end plates comprising metallic sheets having reenforced portions for stiffening the sheets vertically, longitudinal frame bars extending between and joining said end plates, said end plates defining the ends of said cooling chamber, and side cover sheets secured to said main frame structure for closing the sides of said cooling chamber, the lower edge of one of said side cover sheets being spaced from the adjacent side edge of said pan for defining an air inlet opening into the lower end of said cooling chamber, said coil assembly within said cooling chamber being carried by said end plates, and said fan means at the upper end of said cooling chamber for drawing air upwardly therethrough being also carried by said end plates.

2,662,742
HEAT EXCHANGER FOR PRODUCING GRANULAR SALT PRODUCTS
Emory W. Douglass and Parker S. Dunn, Carlsbad, N. Mex., assignors to Potash Company of America, Denver, Colo., a corporation of Colorado
Application December 20, 1948, Serial No. 66,388
1 Claim. (Cl. 257—116)

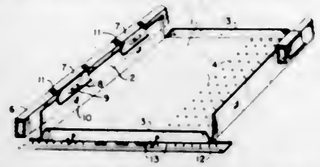


Apparatus for cooling molten materials, comprising a drum-type structure having a substantially flat upper surface and mounted for rotation about a substantially vertical axis, means including a central well portion on the upper surface of said drum, a partition in the well dividing the interior into an inner coolant supply chamber and an outer discharge chamber and a series of radial conduits extending from the supply chamber through the interior of the drum to a point of discharge adjacent the periphery thereof for circulating the coolant between the inner and outer chambers, means for circulating a heat exchange medium through the interior of said structure and in contact with said flat surface, means for rotating said structure, means including an overhanging feed spout for feeding molten material onto said upper surface at a downward inclination and directed centrally of the drum, and a mobile scraper member disposed at more than 270 degrees from the point of feed introduction for peeling the matter congealed on the flat surface.

2,662,743
SUSPENDED PANEL TYPE AIR CONDITIONER
Gunnar Frenger, Røa, V. Aker, Norway
Application February 10, 1948, Serial No. 7,394
Claims priority, application Norway October 21, 1947
2 Claims. (Cl. 257—124)

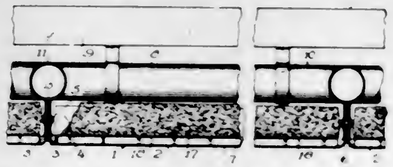
1. In a system for supporting plates to define a radiant wall, ceiling or a like surface, a conduit member having a flat surface parallel to the wall or the like surface to be defined, means cooperating with said member to deliver a temperature modifying fluid to said member, a resilient element surrounding said member and

defining with said flat surface of said member a slot, and a plate having a flat flange parallel to



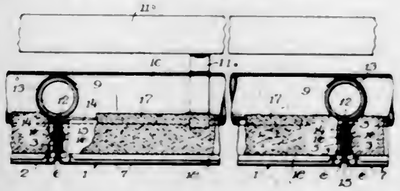
the plate and seated in the slot defined by the flat surface of the member and element.

2,662,744
PANEL HEATING SYSTEM AND INTEGRAL TUBE AND CLIP FOR USE THEREIN
Ralph Leon Leadbetter, Libertyville, Alfred S. Chipley, Mundelein, and Charles P. Certik, Deerfield, Ill., assignors to Burgess-Manning Company, Libertyville, Ill., a corporation of Illinois
Application October 12, 1949, Serial No. 120,914
11 Claims. (Cl. 257—124)



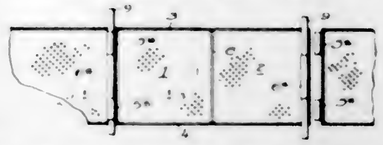
1. In a panel type heating and cooling system having a plurality of flanged sheet metal panels arranged side by side to form a wall or ceiling surface and including means for supporting and heating and cooling said panels comprising a plurality of spaced parallel fluid-tight tubes supported in back of said panels and adapted to conduct a fluid therethrough, that improvement wherein each said tube includes as an integral part thereof a pair of resilient elements which engage abutting flanges of a pair of adjacent panels under constant spring tension.

2,662,745
RADIANT PANEL HEATING AND AIR DISTRIBUTING STRUCTURE
Albert T. Jorn and Albert Jorn, Jr., Grayslake, Ill., assignors to Burgess-Manning Company, Libertyville, Ill., a corporation of Illinois
Application October 12, 1949, Serial No. 120,952
2 Claims. (Cl. 257—124)



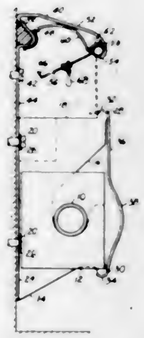
2. In a combined panel-type heating and air-distributing ceiling structure, a plurality of flanged rectangular pans arranged in a plane to form a ceiling, at least one flange of each pan being outwardly dimpled and the pans being so oriented that the dimples of each pan engage a flange of an adjoining pan to thereby positively space said adjoining pans apart, a plurality of spaced parallel pipes arranged in a plane above said pans, and clips of sheet material engaging flanges adjacent said dimpled flanges and said pipes to support said pans and thermally connect the same with said pipes, each said clip comprising an upper portion hooked over and resiliently clamping a pipe and a lower portion comprising a pair of spring legs clamping adjacent flanges under constant spring pressure and a tongue extending between said spring legs and said adjacent flanges to positively space said adjacent flanges apart.

2,662,746
HEAT EXCHANGE PANEL STRUCTURE
Albert T. Jorn, Grayslake, Ill., assignor to Burgess-Manning Company, Libertyville, Ill., a corporation of Illinois
Application February 18, 1952, Serial No. 272 136
7 Claims. (Cl. 257—124)



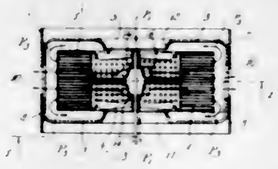
1. In a panel ceiling for a heat transfer system including a plurality of spaced apart fluid conducting pipes and a plurality of panels arranged in a plane to form a ceiling surface, that improvement therein in which the panels have integral flanges oppositely disposed on the panel and said flanges have arcuate extremities which engage the pipes under resilient pressure to provide both support means for the panel from the pipes and heat conduction between the pipes and the panel, said arcuate extremities of said oppositely disposed flanges being discontinuous and mutually complementary whereby said arcuate extremities of the flanges of adjoining panels dovetail upon the pipes, at least part of the arcuate extremity of one flange of a panel facing in the same direction as at least part of the arcuate extremity of the oppositely disposed flange of said panel.

2,662,747
BASEBOARD RADIATOR PROVIDED WITH DAMPER
Reuben Nicholas Trane and Otto A. Labus, La Crosse, Wis.; Helen Trane, legal guardian of Reuben N. Trane, assignors to The Trane Company, La Crosse, Wis.
Application March 16, 1951, Serial No. 215,933
3 Claims. (Cl. 257—133)



3. A convector radiator comprising a bracket adapted to be secured to a wall, conduit for a heat exchange fluid supported by said bracket, a first panel secured to said bracket and adapted to form with the wall a duct for conducting air over said conduit, a second panel having a first flange adapted to be secured to the wall and a second flange extending outwardly from said first flange, the extremity of said second flange being spaced from said front panel to provide an air outlet and having a bead, a damper rotatably supported in said bead, said first flange having a reentrant portion, spring members having first curved portions seating on said reentrant portion and second curved portions engaging said damper to frictionally hold said damper in adjusted position in said bead.

2,662,748
HEAT EXCHANGER WITH ADJUSTABLE CASING FOR VARYING RECIRCULATION
Ludwig R. Huber, Uberlingen am Boden See, Germany, assignor, by mesne assignments, to Swingfire (Bahamas) Limited, Nassau, Bahamas, a corporation of the Bahamas
Application July 1, 1952, Serial No. 296,622
6 Claims. (Cl. 257—137)



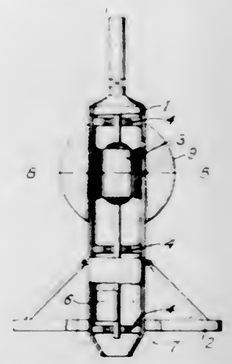
1. A heat exchanger comprising an annular radiator surrounding a central space, a casing surrounding and spaced from the annular radiator and having at least one central opening adjacent the central space of the annular radiator and at least one side opening adjacent and radially aligned with the outer face of the annular radiator, and an air propeller disposed within said central space of the radiator for forcing air drawn through said central opening and air returned by said casing radially outward through said annular radiator.

2,662,749
ANNULAR FLOW HEAT EXCHANGER
Herman F. Buschow, North Arlington, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application January 21, 1949, Serial No. 71,953
10 Claims. (Cl. 257—246)

1. A recuperative heat exchanger comprising an elongated cylindrical housing having ports at the opposite ends thereof, an elongated cylindrical core disposed wholly within said housing with its axis substantially coincident with the axis of said housing and positioned to form an annular space defined by the periphery of said cylindrical core and the inner wall of said housing, an elongated annular chamber disposed wholly within said annular space and having the walls thereof spaced from the inner wall of said cylindrical housing and the periphery of said cylindrical core thereby defining annular flow paths on opposite sides of said annular chamber, said annular flow paths merging at the opposite ends of said annular chamber and communicating with said ports at the opposite ends of said cylindrical housing, ports communicating with the opposite ends of said annular chamber, and masses of high heat conducting material having passages therein for flow of a fluid therethrough disposed in said flow paths, said elongated cylindrical core being supported within said cylindrical housing entirely by the mass of high heat conducting material disposed in the annular flow path between said cylindrical core and said elongated annular chamber.



2,662,750
SHAKING DEVICE FOR LAYER AND LOOSE MATERIALS
Wilhelm Degen, Frankfurt am Main, Germany
Application July 27, 1951, Serial No. 238,902
Claims priority, application Germany July 31, 1950
9 Claims. (Cl. 259—1)



1. In a vibrating apparatus for compacting loose material; a supporting structure an elongated casing suspended from said structure with its longitudinal axis in an upstanding condition, a rotatable shaft in said casing, means for rotating said shaft, an eccentric member on said shaft adjacent the lower end of said casing to produce horizontal vibration at said lower end of the casing, the amplitude of horizontal vibration of said casing decreasing from said lower end upwardly to a predetermined level at which said vibration is of a minimum amplitude, and supplementary loading means connected to said casing at substantially said predetermined level so that said loading means is substantially free of horizontal vibration.

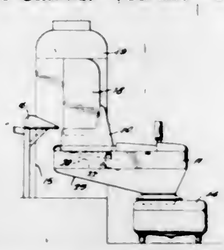
2,662,751

MILK FAT BLENDING APPARATUS

Vergil Schwarzkopf, La Grange, Ill., assignor to The Lathrop-Paulson Company, Chicago, Ill., a corporation of Illinois

Continuation of application Serial No. 56,005, October 22, 1948. This application September 13, 1951, Serial No. 246,476

3 Claims. (Cl. 259—4)



1. In combination with a strainer and a weigh can therebelow, the weigh can having its bottom wall inclined downwardly and forming, when filled with liquid, a deep end and a relatively shallow end, a blender plate providing a tray below said strainer to collect the milk passing downwardly therethrough, said tray being supported in a downwardly inclined direction with the lower discharge end of the tray toward the deep end of said weigh can, said tray having side walls extending from the upper portion of the tray to the lower portion in a non-diverging direction, said strainer being positioned above the upper end portion of said tray and said tray extending below said strainer throughout the length thereof to receive all of the streams of milk falling from said strainer and collecting the same to discharge them in a heavy single stream into the body of milk at the deep end of said weigh can.

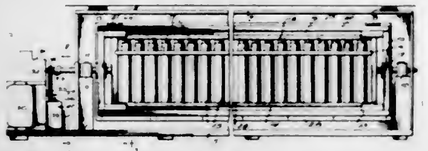
2,662,752

EMULSIFYING APPARATUS

James Franklin Miller and Michael C. Jaskowski, Pittsburgh, Pa., assignors to the United States of America as represented by the Secretary of the Army

Application May 23, 1950, Serial No. 163,644

4 Claims. (Cl. 259—57)



1. Emulsifying apparatus comprising a support which is open from one side to the other so that light may pass therethrough; a bottle holder inclosed by the support; means for clamping a bottle against movement on the bottle holder, means for rotatably mounting the bottle holder on the support so that the bottles are turned end over end when the bottle holder is rotated; power driven mechanism for rotating the bottle holder, said power driven mechanism including an electric motor, reduction gearing driven by said motor, and a shaft driven by said reduction gearing for rotating the bottle holder in one direction only; a switch electrically connected with said motor for opening the circuit of said motor; means moved by said shaft to operate said switch to stop said motor, said last-named means being operator-adjustable to change the number of rotations permitted the bottle holder in each cycle of the machine; and a support upon which said circuit-opening switch is hingedly mounted in such position that the operator may swing the switch out of the path of said last-named means so that the bottle holder may then rotate as long as desired.

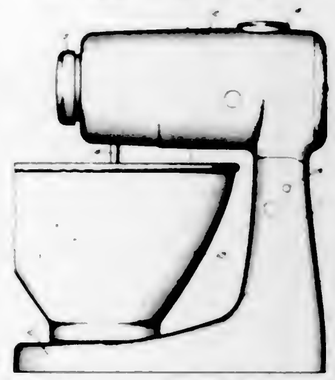
2,662,753

FOOD MIXER

Joseph A. Schwarz, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois

Application December 8, 1951, Serial No. 260,634

2 Claims. (Cl. 259—85)



1. In a food mixer, a rotatable platform, a mixer bowl, a friction interlock for locking the bowl on the platform against rotation of the bowl in its normal driven direction, a base having a circular opening into which the platform extends, the edge portion of the platform defining the opening being provided with a plurality of stop members around the platform forming a ratchet, and a pawl carried by the platform and engaging a tooth upon initial reverse rotation of the bowl and platform to prevent further reverse rotation of the platform to aid in separating the friction interlock.

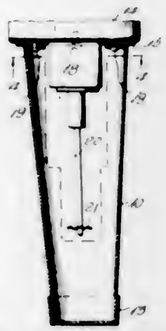
2,662,754

PROTECTOR FOR MILK SHAKE MIXERS

Olen D. Sharp, Evansville, Ind.

Application January 25, 1951, Serial No. 207,795

1 Claim. (Cl. 259—125)



A device of the character described comprising, in combination with a mixing machine having a motor housing and a centrally dependent agitator, the provision of a plate having a central opening and surrounding said agitator, said plate having a pair of diametrically opposed holes, screws extending through said holes and threadably engaged with the underside of said motor housing, a pair of diametrically opposed headed pins dependent from said plate, said pins each being circumferentially spaced ninety degrees from its adjacent hole, a downwardly and inwardly tapering open-ended tube encompassing said agitator, a pair of inwardly extending diametrically opposed flanges formed at the upper end of said tube and each having a bayonet slot formed therein for the reception of said headed pins, and a cap removably and frictionally mounted upon the lower end of said tube.

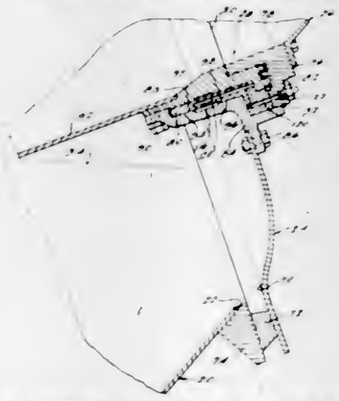
2,662,755

CONCRETE MIXER

Chris Gerst, Detroit, Mich., assignor, by mesne assignments, to Le Roi Company, Milwaukee, Wis., a corporation of Wisconsin

Application December 11, 1951, Serial No. 261,100

18 Claims. (Cl. 259—161)



1. In a concrete mixer having a rotatable mixing drum provided with an opening through which material is charged into and discharged from said drum, a closure engageable with said drum for sealing said opening and being rotatable with said drum when so engaged, said closure being movable away from said drum so as to permit the discharge of material therefrom through said opening, a material receiving hopper provided with a chute extending through said closure and into said drum through said opening when said closure is sealing said opening, said chute comprising a member carried by said closure and extending into said drum a substantial distance so as to charge material fed into said hopper into said drum at a distance inwardly away from said opening in said drum, means supporting said closure and hopper for movement away from and toward said drum, and means providing a bearing between said closure and hopper to permit relative rotation therebetween when said closure is rotating with said drum.

2,662,756

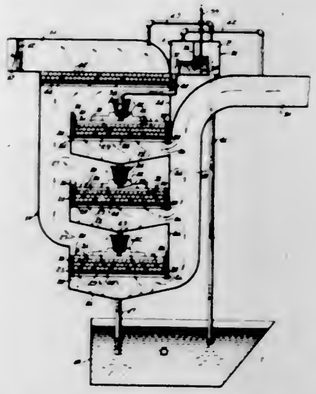
LIQUID CONTACT APPARATUS FOR CLEANING GAS

Robert L. McIlvaine, Chicago, Ill., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill., a corporation of Illinois

Application August 22, 1950, Serial No. 180,803

2 Claims. (Cl. 261—23)

1. A dust collector comprising an exterior housing providing an inlet for dust-laden gas, an outlet for clean gas, and a gas passageway therebetween, a plurality of superimposed interior casing sections within said passageway, each of said casing sections having a gas permeable supporting member and a dished drainage member underlying said gas permeable member and overlying the next lower casing section, baffle means including said drainage members connecting opposite ends of superadjacent casing sections to define staggered inlet and outlet passages for each casing section, and means for introducing a liquid into the uppermost of said casing sections for drainage through the gas permeable member to the drainage member therebeneath and for collection at the lowermost portion of the dished drainage member for delivery to the subadjacent casing section.



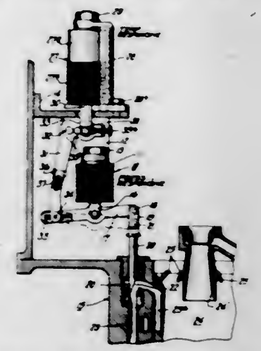
2,662,757

DENSITY RESPONSIVE DEVICE

Frank C. Mock, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

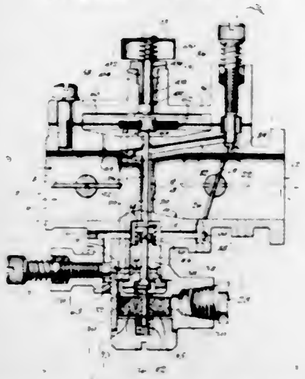
Application March 1, 1944, Serial No. 524,534

7 Claims. (Cl. 261—39)



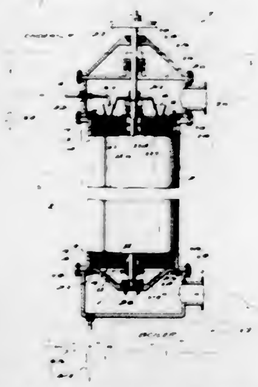
7. A carburetor comprising an air passage with an air supply and a liquid fuel supply thereto, means for supplying fuel to said air passage in proportion to the velocity of air flow therethrough, and means for compensating said fuel supply for variations in density of said air supply, including an element, insensitive to ambient temperature changes, but responsive to the pressure of said air supply, operatively associated with an element responsive to the temperature of said air supply and insensitive to the pressure thereof.

2,662,758
CARBURETOR
Robert Anderson, Des Plaines, and Robert F. Bracke, Arlington Heights, Ill., assignors, by mesne assignments, to R. F. Bracke & Company, Chicago, Ill., a partnership composed of Hazel B. Bracke and Robert Anderson
Application November 5, 1949, Serial No. 125,768
4 Claims. (Cl. 261—69)



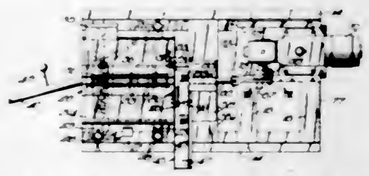
1. A carburetor of the class described the combination of a body providing an air passage therethrough, jet means for supplying fuel to air flowing through said passage, said body having a fuel inlet, a fuel passage connecting said inlet with said jet means, a valve in said passage for controlling flow of fuel to said jet means, a spring for closing said valve, means responsive to engine operation for opening said valve, and means for overcoming the effect of gravity on said valve for all positions of said carburetor, said means including a fuel chamber, a float in said chamber, said float being lighter than a corresponding volume of said fuel, and means attaching said float to said valve.

2,662,759
MULTICELLULAR FRACTIONATION COLUMN AND THE LIKE
Aubrey Keith Brewer, Washington, D. C.
Application May 13, 1949, Serial No. 93,152
28 Claims. (Cl. 261—83)



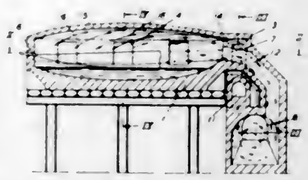
1. A method of contacting a descending liquid with a gaseous or vaporous medium which consists in distributing the liquid in the form of a reticulated film-formed mobile structure comprising spaced apart upper and lower apertured surface supported films and surface supported downflow films bridging therebetween; positively laterally transporting said surface supported downflow films about, between and in edge contact with said upper and lower apertured films; passing liquid to said upper film through surface supported tubular films bounding the apertures therein; passing liquid from said lower film through surface supported tubular films bounding the apertures therein; and flowing the gaseous medium into and out of said reticulated film-formed structure by way of the free-flow passages provided by said tubular films to be positively laterally moved about with the laterally transported films between the films of said film-formed structure for promoting intimate turbulent surface contact of the gas with the surface supported liquid films thereof.

2,662,760
SLUG FEED DEVICE
Paul Ingram, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio
Application August 27, 1949, Serial No. 112,771
6 Claims. (Cl. 263—6)



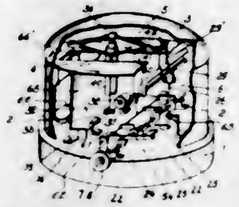
6. In a slug feeding device, a unit having an open-ended generally horizontal passageway therethrough, means for heating slugs in said passageway, an inclined ramp adjacent one end of said passageway and having a lower trough portion aligned with said passageway, a reciprocable plunger aligned with said passageway and said trough portion, means for operating said plunger and adjustable for varying the end of stroke of said plunger relative to said one end of said passageway and for determining the position of slugs adjacent the other end of said passageway prior to ejection therefrom, and a metering plate adjacent said one end of said passageway and having an aperture smaller than the smallest cross-section of said passageway to prevent jamming of slugs therein, said plunger operating means including a clutch operative to disengaged position upon a predetermined transmitted force to prevent damage to the device.

2,662,761
OPEN HEARTH FURNACE
John Hugh Chesters, Sheffield, England, assignor to The United Steel Companies Limited, Sheffield, England
Application November 30, 1950, Serial No. 198,287
Claims priority, application Great Britain December 5, 1949
7 Claims. (Cl. 263—15)



1. In the operation of an open hearth furnace or the like having burning fuel directed generally in a given direction into engagement with the charge in said furnace, the method of reducing erosion in a generally central area of the roof of said furnace comprising introducing a gas into said furnace and causing a flow of said gas along said area and in a direction generally opposed to said given direction whereby said gas shields said area from burning fuel and waste gases.

2,662,762
PRECISION BALANCE
Friedrich Meinig, Gottingen, Germany
Application April 15, 1950, Serial No. 156,098
Claims priority, application Germany August 18, 1949
3 Claims. (Cl. 265—54)



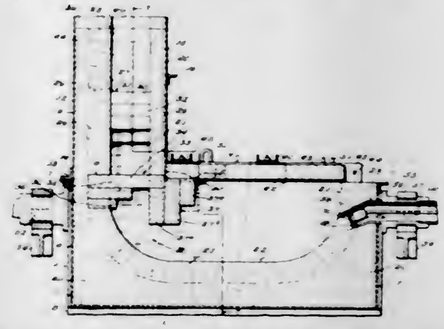
1. A balance, comprising in combination, a base plate; an upwardly projecting support mounted on said base plate; a balance beam supported by said upwardly projecting support at the upper end thereof and extending in substantially horizontal direction; a pan adapted to carry a load to be weighed; first supporting means suspended from one end of said balance beam so as to extend in downward direction and supporting at the lower end thereof said pan; poise carrying means for supporting a plurality of poises; second supporting means suspended from said balance beam at the other end thereof so as to extend in downward direction and supporting at the lower end thereof said poise carrying means; poise applying means mounted on said base plate substantially below said poise carrying means for applying a desired poise to said poise carrying means; a counting device connected to said poise applying means and allowing to read the poises applied by said poise applying means to said poise carrying means; cam means forming part of said poise applying means; linking means forming part of said poise applying means and cooperating with said cam means; a casing being closed on the top and having a side wall, said casing being open at the bottom so as to have a bottom edge, said casing being removably placed with said bottom edge on said base plate and entirely enclosing said upwardly projecting support, said balance beam, said pan, said poise carrying means and said poise applying means; a substantially horizontal partition wall extending in said casing and forming within the same an upper and a lower chamber, said horizontal partition wall being provided with an oblong aperture, said upwardly projecting support projecting through said aperture into said upper chamber so as to support said balance beam within said upper chamber, said first supporting means and said second supporting means projecting through said aperture downwardly so as to support said pan and said poise carrying means in said lower chamber of said casing; and an operating member for said cam means projecting through an opening in said side wall of said casing outwardly so as to permit application of poises to said poise carrying means without removal of said casing.

2,662,763
WIND BOX FOR SINTERING MACHINES
John Morton Heaps, Trail, British Columbia, and Basil Houlden, Rossland, British Columbia, Canada, assignors to The Consolidated Mining and Smelting Company of Canada, Limited, Montreal, Quebec, Canada, a corporation of Canada
Application March 30, 1951, Serial No. 218,494
10 Claims. (Cl. 266—21)



1. A wind box for a down draft sintering machine which comprises an open top, side walls, end walls and a bottom, at least one air outlet in the upper part of said wind box, belt conveyor means within said walls and below said outlet extending from end to end of said wind box adjacent to and substantially covering the bottom thereof, means for driving said belt conveyor, means communicating with the discharge end of said conveyor for removing from the wind box material discharged from said conveyor, and means for sealing said wind box against passage of air thereinto other than through said open top and passage of air therefrom other than through said air outlet.

2,662,764
OSCILLATORY, DIRECT-FIRED, STACK-LOADED MELTING FURNACE
Armais Arutunoff, Bartlesville, Okla., assignor to Reda Pump Company, Bartlesville, Okla., a corporation of Delaware
Application April 18, 1951, Serial No. 221,699
6 Claims. (Cl. 266—33)



1. An oscillatory, direct-fired, melting furnace comprising a furnace proper, lined with refractory material, a fuel burner directed through one end wall of said furnace, a vertical loading stack, lined with refractory material, at the opposite end of the furnace, a flue-opening from the furnace proper to the bottom of the stack, a horizontal melting ledge adjacent the lower extremity of said stack and having its free edge spaced from the opposite wall of the stack, to form a restricted passageway, at least one oppositely disposed horizontal impact ledge, vertically spaced above said melting ledge with its free edge spaced from the opposite wall of said stack and overlying the corresponding edge of the melting ledge, to form a second restricted passageway, a pouring spout in the side wall of the furnace adjacent the melting ledge and means for jointly oscillating said furnace and stack on a horizontal axis parallel

with the free edges of the planes of said ledges, to alternately tilt said ledges to charge-retaining and charge-releasing angles of inclination.

2,662,765
SECURING OF A MEMBER TO A SUPPORT BY MEANS OF A SPRING
Jan Wijchman, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 24, 1950, Serial No. 145,998
Claims priority, application Netherlands March 19, 1949
7 Claims. (Cl. 267—1)



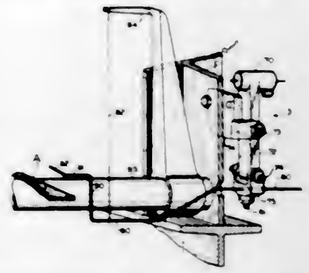
1. A combination of member and support, a recess in said support, means to secure said member in said recess, said means comprising a coil spring located within the walls of said recess, said spring having a clamping end disposed directly against said member to exert pressure in the direction of its longitudinal axis, the other end of said spring having a lateral extension which is disposed in a depression in said support to anchor said spring to said support, the compression and torsional forces thus set up in said spring locking the ends of said spring against relaxation in the axial and tangential direction, and the walls of the recess preventing lateral shifting of the spring.

2,662,766
WINDOW OPENING AND CLOSING MECHANISM
Lawrence O. Burress, Moline, Ill.
Application September 12, 1951, Serial No. 246,245
2 Claims. (Cl. 268—108)



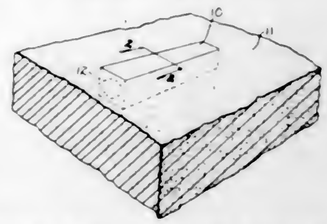
1. In combination, a window frame, a multi-paned window hingedly mounted along its upper edge in said frame, the lower portion of said frame including a sill, said window being swingable outwardly of said frame toward and away from said sill, a continuous shaft disposed alongside said sill substantially parallel thereto and coextensive therewith, a plurality of pairs of right and left hand threaded portions on said shaft, said pairs of threaded portions being spaced lengthwise of the entire shaft, bearings for rotatably supporting said shaft disposed at the opposite ends of each pair of threaded portions and a gearing between each of said right and left hand threaded portions, said bearings being mounted on brackets affixed to said sill, threaded nuts engaging said threaded shaft portions, respectively, and movable toward and away from each other during rotation of said shaft in one direction or the other, respectively, actuating arms pivotally connected at one end with said nuts, respectively, and extending across said sill, universal joint means connecting the other ends of said arms with said window adjacent the lower edge thereof, said arms extending from said nuts at acute angles to said shaft in relatively opposite directions when said window is closed, and means for rotating said shaft to shift said nuts therealong in relatively opposite directions to urge said arms outwardly toward an open position in which said arms are generally perpendicular to said shaft, thus exerting a window opening force which is distributed over the entire length of the window.

2,662,767
MECHANISM FOR MAINTAINING ALIGNMENT OF AN APRON IN A TEXTILE MACHINE
Theodore A. Dourdeville, Holden, Mass., assignor to David Gessner Company, Worcester, Mass., a corporation of Massachusetts
Application April 4, 1951, Serial No. 219,235
1 Claim. (Cl. 271—2.6)



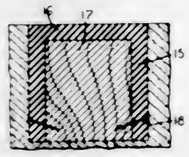
In a mechanism for winding a strip of material, feeler apparatus comprising a pivotally mounted arm, circuit-closing means controlled by said arm, a block swiveled to one end of said arm, a rod mounted in an opening in said block and extending horizontally a substantial distance therefrom, means to secure said rod in adjusted axial position in said block, said rod having an offset end portion positioned to be engaged by an adjacent edge of said strip of material, a fixed support, and flexible means depending from said support and sustaining the outer end of said rod for free swinging and substantially horizontal movement toward and away from the path of travel of the edge of said strip of material.

2,662,768
PITCHER'S RUBBER
Paul S. Madsen, Bethany, Conn., assignor to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Application October 7, 1948, Serial No. 53,197
5 Claims. (Cl. 273—25)



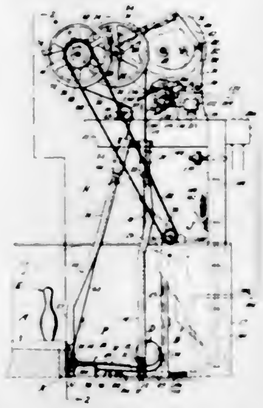
1. A pitcher's mound having a ground cavity, and a pitcher's rubber of solid block formation received in said cavity and having a flat playing face substantially flush with the ground and also having at least one additional playing face below the ground level, said rubber having a through longitudinal opening therein to receive a substantial amount of the surrounding earth or other material for properly anchoring said rubber within the ground.

2,662,769
PITCHER'S RUBBER
Paul S. Madsen, Bethany, Conn., assignor to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Application June 14, 1949, Serial No. 99,038
4 Claims. (Cl. 273—25)



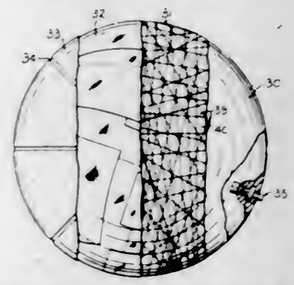
1. A pitcher's rubber comprising an elongated member having an upper wall and a depending wall at right angles to the first wall adjacent the margin of the first wall, a supporting block for said member, and attaching means between said member and said block whereby the member is attached to the block in a predetermined position and is attachable in another position in which it is turned relatively to the block through a quarter turn.

2,662,770
BOWLING BALL AND PIN HANDLING MECHANISM
James J. McGinley, Williston Park, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey
Application May 9, 1947, Serial No. 746,918
16 Claims. (Cl. 273—43)



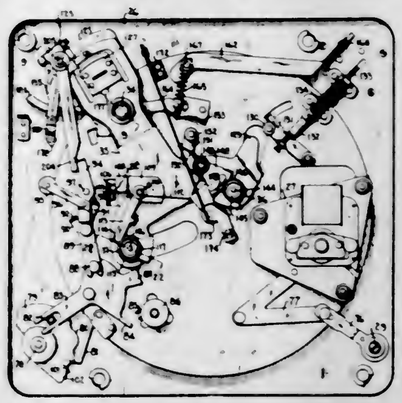
1. In a bowling pin setting machine having a ball stop and a pit for collecting bowling balls and pins, an apron positioned in front of said ball stop and at the bottom of the pin and ball collecting pit, a rigid flat member extending over and across the portion of said apron at the bottom of said pit, and elevating mechanism for raising said apron and rigid flat member up from said pit to a delivery station to dump bowling pins resting on said rigid flat member and apron into a pin collecting chamber.

2,662,771
ATHLETIC BALL
Cornelius J. Crowley, New Haven, Conn., assignor to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Application March 22, 1949, Serial No. 82,786
4 Claims. (Cl. 273—65)



2. A spherical athletic ball carcass comprising great-circle encircling tape reinforcements in planes at 90° to each other presenting a plurality of quadrant-shaped open spaces, and short tapes of substantially quadrant length; substantially bisecting the quadrant-shaped spaces, said last-named tapes in a given hemisphere of the ball having alternating arrangement so as to be directed alternately to different poles.

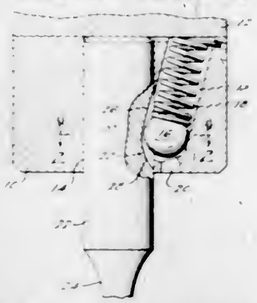
2,662,772
AUTOMATIC RECORD CHANGER FOR VARIOUS RECORD SIZES
Daniel T. Dobrogowski, Milwaukee, Ralph M. Roen, Greenfield, and Robert H. Jones, West Allis, Wis., assignors to Milwaukee Stamping Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 20, 1949, Serial No. 105,864
4 Claims. (Cl. 274—1)



1. In a record changer for a phonograph having a turntable and a tone arm provided with a stylus adapted to follow the groove of a record having a low pitch groove with sound recorded thereon and a relatively high pitch groove portion leading centrally from the groove first mentioned, the tone arm being mounted for angular movement as the stylus follows such groove, the combination with means for moving the tone arm from operative position over the record, and including a cam scroll on said turntable and a cam follower connected to said turntable, said cam follower having a mounting biasing it toward en-

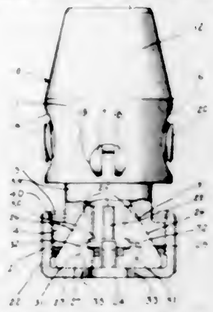
gagement with the scroll, of trip means normally holding the cam follower against said bias, and a trip actuator comprising mechanism responsive to the velocity of angular displacement of the tone arm as the stylus traverses the groove portion of high pitch and non-responsive to the displacement of the tone arm as the stylus traverses the low pitch groove, whereby said trip actuator functions independently of the angular position of the tone arm, said mechanism including a normally retracted trip dog in impositive driven connection to said actuator and having lost motion driving connections with said trip means whereby said actuator gradually moves, during stylus traverse of the low pitch grooves of the record, said trip dog from retracted position toward a position in which it is in a position for driving engagement with said trip means in a reverse direction, means for resetting said trip dog in said reverse direction and toward its retracted position periodically in the course of record rotation, said lost motion connections being such that increments of advance of the trip dog between its periodic retraction is insufficient to advance the trip dog to reverse direction driving engagement with the trip means during low pitch stylus traverse but is sufficient, during high pitch stylus traverse, to advance the trip dog to reverse direction driving engagement with the trip means before retraction, whereby the next succeeding movement of said resetting means will drive said trip dog in said reverse direction to actuate said trip means to release said cam follower for engagement with said cam scroll.

2,662,773
CONSTRUCTION OF INTERCHANGEABLE DIES, PUNCHES, ETC.
Richard H. Parsons, Bloomfield Hills, Mich.
Application January 12, 1951, Serial No. 205,642
5 Claims. (Cl. 279—30)



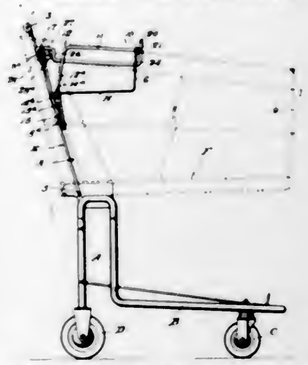
1. Means for releasably retaining a tool in a retainer having a tool-receiving socket and a holding device including a portion movable to and from a position wherein it projects laterally into the socket, comprising a tool movable axially into the socket, and having a pocket therein which is movable, during insertion of the tool in the socket, to a position in alignment with the path of, and which is adapted to be interengaged by, the holding device, the interengageable part of the pocket having angularly disposed outwardly divergent walls which are of substantially V-section in a plane perpendicular to the direction of axial movement of the tool into and out of the socket, such V-section portion being wider than the portion of the holding device interengageable therewith, and being deeper and extending inwardly toward the axis farther than such holding device, whereby the holding device engages said walls of the pocket at two points spaced laterally from one another and spaced inwardly from the outer edges of said walls, and whereby the holding portion bridges the deepest part of the pocket.

2,662,774
JAW CONTROL FOR CHUCK DEVICES
Melvin H. Emrick, Jamaica, N. Y.
Application November 30, 1951, Serial No. 259,139
8 Claims. (Cl. 279—59)



1. A chuck device of the character described, comprising a tubular chuck body having an externally threaded lower end portion, said lower end portion having a conical bore opening outwardly through said end, a plurality of tool gripping jaws mounted in said conical bore, said jaws having bevelled surfaces operating upon the walls of said conical bore in controlling movement of the jaws toward and from each other, inner edge portions of the jaws having elongated gripper surfaces, said gripper surfaces having recesses, means controlling positioning of the jaws one with respect to the other, a yoke-shaped spring engaging each of said jaws, each spring having a crosshead and side members, the crossheads being arranged in said recesses, and said springs being tensioned to maintain the jaws in constant engagement with the walls of said conical bore.

2,662,775
CHILD SEAT FOR STORE SERVICE CARRIERS
Sylvan N. Goldman, Oklahoma City, Okla.
Application September 15, 1950, Serial No. 185,087
10 Claims. (Cl. 280—33.99)



1. In a store service carrier, having a forwardly tapered basket for telescoping association with a basket of similar construction, a hinged gate at one end of said basket, said gate having an opening at its upper end defined in part by spaced upper and lower frame members, a seat detachably connected by inwardly facing hook members to the upper frame member, said hook members engaging the outer face of said upper frame member, a resilient member extending upwardly from said seat and engaging the inner face of said upper frame member and normally urging said hooks into seating engagement with said frame member, and means depending from and extending below said seat for engagement with said lower frame member to support said seat against downward swinging movement on said hooks.

2,662,776
GOLF CLUB CARRIER
Gladstone R. Hurst, Oklahoma City, Okla.
Application June 4, 1951, Serial No. 229,671
6 Claims. (Cl. 280—34)



1. A golf club carrier comprising a plurality of spaced parallel tubes adapted to receive and hold the handles of golf clubs, said tubes including upper and lower ends, means joining the lower ends of said tubes and including a plate having a plurality of spaced notches forming seats for the handles of golf clubs, a pair of wheels attached to said joining means to permit movement of the carrier over the ground, an upper plate extending transversely across and supported on said tubes below the upper ends thereof and having a plurality of notches therein for receiving the handles of golf clubs, and a handle supported on the tubes to permit manual steering of the carrier as it is moved on said wheels, said joining means including a receptacle underlying the first named plate and including an upstanding wall resting against all of said tubes at their lower ends, said receptacle adapted to receive the heads of clubs whose handles are received in the notches of both plates.

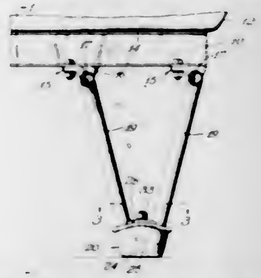
2,662,777
TWO WHEEL HAND CART
Andrew J. Wilchek, Cleveland, Ohio
Application November 16, 1950, Serial No. 196,015
2 Claims. (Cl. 280—47.24)

1. A device of the type described comprising an axle, wheels supporting said axle horizontally and rotatably mounted on the opposite ends of said axle, elongated collars rotatably mounted on the said axle between said wheels, a first T mounted on said axle and having four openings, the inner end portions of said collars fixed in at least two of said openings in said first T, a first length of tubing having one end fixed in one of the said first T openings, said first length of tubing being slightly arched in its length, a second T secured to the outer end of said first tubing, a second length of tubing, a plurality of spaced openings extending longitudinally of said second tubing, said second length of tubing extending through and fixed to said second T, a third length of tubing having one end portion fixed in one of said first T openings opposite the first length of tubing and extending outwardly in a plane at a right angle to the plane in which the said first length of tubing extends, a third T secured to the outer end of said third length of



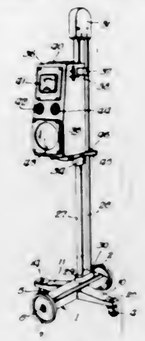
tubing, a fourth length of tubing, a plurality of spaced apertures extending longitudinally of said fourth length of tubing, said fourth length of tubing extending through and fixed to said third T.

2,662,778
LEG ASSEMBLY FOR WHEELED TRUCKS
John R. Ristow, Chicago, Ill., assignor to St. John & Co., Chicago, Ill., a corporation of Illinois
Application December 22, 1950, Serial No. 202,240
1 Claim. (Cl. 280—47.33)



A leg assembly in combination with a vehicle body comprising a pair of cylindrical pipes each bent to U-shaped conformation in a single plane and each having a horizontal portion extended across and beneath the vehicle body and leg portions depending from opposite ends of the horizontal portion constituting the terminal ends of the pipes, means for detachably securing said horizontal portions in parallel spaced apart positions to the underside of the vehicle body, with the terminal ends of the leg portions at each vehicle side directed to approach without meeting each other, a pair of shoes each having an upwardly opening recess of generally elliptical shape in horizontal cross-section receiving the extremities of a pair of said leg portions in spaced apart relation, a wedge member having a central vertical bore and having concaved end walls spaced from each other and from said bore partially embracing the pipe end portions and positioned between them largely within said shoe recess and cooperating therewith to substantially close the entire opening of said recess, the terminal end of each pipe having a radially extending strike out projection engaged by the underside of said wedge member, and means urging each wedge member into wedging relation with said pipe extremities and projections to secure them to said shoe, said last means including a bolt extending through the bottom of each shoe and through the bore of each wedge.

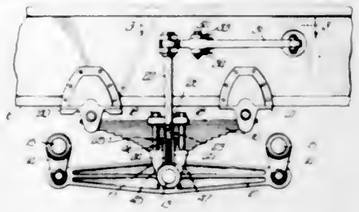
2,662,779
WHEELED SUPPORT FOR HEADLIGHT TESTER
Albert R. Squyer and Paul F. Dirksen, Springfield, Ill., assignors to Weaver Manufacturing Company, Springfield, Ill., a corporation of Illinois
Application August 15, 1950, Serial No. 179,578
5 Claims. (Cl. 280—79)



1. In a device of the character described, in combination, a movable supporting base elongated transversely of the direction of movement thereof, a shaft extending along the transverse direction of said base and mounted to turn in aligned bearings on said base for rocking movement of said base about the axis of said shaft, a pair of main supporting wheels on said shaft beyond opposite ends of said base, said main supporting wheels being of equal diameter and having relatively hard rims for rolling engagement with a flat horizontal surface, said main supporting wheels being constrained to rotate as a unit and to eliminate relative movement between them, a pair of arms integral with said base and extending at substantially right angles from opposite sides of said base from position substantially midway between said main supporting wheels, a first swiveling non-directional wheel carried on the outer end of one of said arms, leaf spring means secured to said base and extending outwardly along said other arm, a second swiveling non-directional wheel carried on the outer end of said leaf spring means, and upright load supporting means carried by said base at position in closer proximity to the axis of said shaft than to said swiveling non-directional wheels for supporting a load above said base, said leaf spring means being flexed upwardly when said main supporting wheels and said swiveling non-directional wheels rest upon said surface and the tension of said spring arm being so chosen that with the ability of said base to rock about said shaft the main weight of the load on said upright load supporting means is placed on said main supporting wheels whereby to cause said base inherently to roll in a straight path.

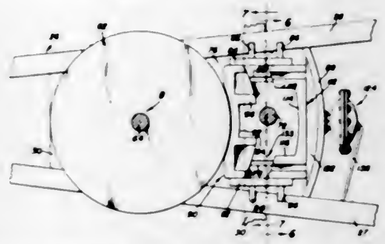
2,662,780
STABILIZER FOR SPRING-SUPPORTED BODIES
Austin G. Talbert, Lyons, Ill., assignor to Talbert Construction Equipment Company, Lyons, Ill., a corporation of Illinois
Application September 2, 1950, Serial No. 183,040
10 Claims. (Cl. 280—104.5)

1. In a vehicle of the class described having a body which is spring-supported from a chassis, the combination of rigid connecting rods on opposite sides of said vehicle, means pivotally connecting the bottom end of each connecting rod to said chassis so that said rod is swingable toward and away from said body in a vertical plane, a stationary clamping jaw mounted on each side of said body and located directly opposite the upper end of the adjacent connecting rod, a movable clamping jaw for each of said stationary jaws, means for pivotally mounting each of said movable clamping jaws on one side of said body so that it is swingable in a horizontal plane toward and away from its associated stationary jaw with



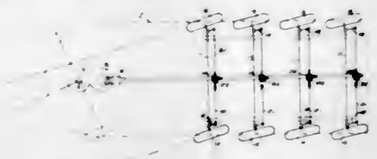
the upper end of said connecting rod in between, and spring means attached to each of said connecting rods so as to urge the upper end thereof away from the adjacent stationary jaw and against said movable jaw, each of said connecting rods being slidable up and down against the faces of said respective movable clamp jaws when the latter are open and each rod being clamped against up and down movement between said movable and stationary jaws when the movable jaws are closed.

2,662,781
SELECTIVE BACKUP CONTROL MEANS FOR TRACTOR-TRAILER UNDERCARRIAGE
Joseph West Hopson, Miami, Fla.
Application January 30, 1950, Serial No. 141,273
7 Claims. (Cl. 280—423)



7. In a tractor-trailer combination of the type including an automatically steered undercarriage, in combination, a tractor unit, a complemental trailer unit, first fifth wheel means swivelly connecting the forward end of said trailer unit to the trailing end of said tractor unit, an undercarriage unit underlying the rear end portion of said trailer unit, second fifth wheel means centrally and operatively connecting said undercarriage unit to the rear end portion of said trailer unit, said second fifth wheel means embodying a lower disk centered and fixed atop said undercarriage, an upper disk centered and hingedly attached to the underside of said trailer unit and concentrically superimposed on said lower disk and joined thereto by an axially centered kingpin situated in alignment with the longitudinal center line of said trailer unit, a wheeled dolly swivelly and slidably connected to the forward end of said carriage unit, tongue means pivotally and operatively connecting the leading steerable end of said dolly to an intermediate portion of said trailer unit, a stop pin fixed securely to the upper disk, spaced rearwardly from said kingpin and depending from said upper disk and disposed in longitudinal alignment with said kingpin, and readily engageable and releasable back-up control means for said second fifth wheel means, said back-up control means being normally maintained out of use and disengaged from said stop pin and embodying a forwardly and rearwardly movable abutment shiftably mounted on said lower disk and interposed between the kingpin and stop pin embodying one shoulder coplanar and engageable with said stop pin in a direction from left to right and a second shoulder also coplanar with and engageable with said stop pin in a direction from right to left, said shoulder being in close spaced parallelism so that when said stop pin is located between said shoulders after the shoulders have been moved to back-up control positions on opposite sides of the pin, said upper and lower disks are virtually locked one to the other with the result that said undercarriage unit becomes, when moved rearwardly, a steering vehicle for the rear end of said trailer unit, making it possible to regulate and arrest the swivelling arc of the undercarriage unit in a horizontal plane and to thus guide and direct the respective rear ends of the trailer unit and the undercarriage unit into a parking space of restricted area.

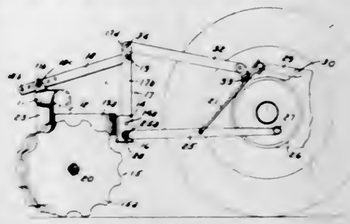
2,662,782
TRAILER WHEEL ASSEMBLY
Robert L. Wilson, Chicago, Ill.
Application September 19, 1951, Serial No. 247,322
2 Claims. (Cl. 280—426)



1. In a vehicle having a rigid chassis, a rotary transmission shaft extending longitudinally of said chassis, wheels for said chassis, wheel axles, steering knuckles connecting said wheels to said axles, tie rods connecting said knuckles together in pairs, pinions fast to said transmission shaft steering rods secured to said steering knuckles, racks connecting said steering rods to said pinions, a bevel pinion fast to one end of said transmission shaft, a gear wheel carried by the vehicle, a transmission wheel carried by the vehicle in mesh with said gear wheel, a bevel gear carried by said transmission wheel in mesh with said bevel pinion, a drive key carried by said gear wheel for disposal in the fifth wheel slot of a tractor, and a king bolt integral with said gear wheel received in said fifth wheel.

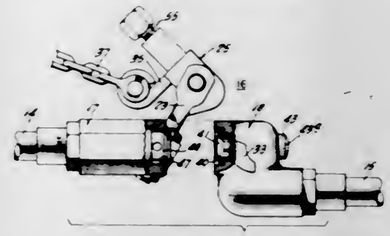
2,662,783
BUSH AND BOG HARROW
Frederick D. Sawyer, Wayne, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application September 21, 1951, Serial No. 247,597
1 Claim. (Cl. 280—461)

A hitch for connecting an implement to a tractor having a pair of laterally spaced, trailing lower hitch links and a vertically spaced trailing top link, comprising a pair of brackets adapted for connection to the implement in laterally spaced relationship, each of said brackets having a plurality of vertically spaced transverse holes therein respectively aligned with the holes of the other bracket, a vertically disposed, generally triangular, rigid hitch frame having a bottom tubular member insertable between said brackets, a rod freely inserted through a selected aligned pair of said holes and said tubular member, thereby pivotally securing said hitch frame to the implement at a selected vertical height relative to



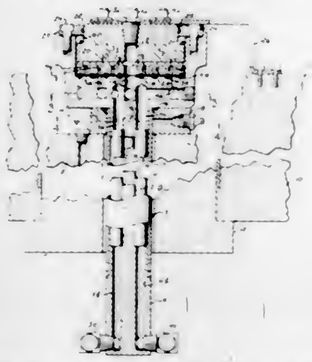
the implement, said rod having the ends thereof respectively projecting beyond said brackets and adapted for connection respectively to the lower tractor hitch links, an adjustable length brace element connected between the top portion of said hitch frame and the implement to rigidify said hitch frame and the implement, and means on the top portion of said hitch frame adapted for connection to the tractor top link.

2,662,784
AUTOMATIC QUICK-DISCONNECT COUPLING MANUAL FLOW CONTROL
Carlos B. Livers, North Hollywood, Calif., assignor to Bendix Aviation Corporation, North Hollywood, Calif., a corporation of Delaware
Application May 21, 1951, Serial No. 227,334
1 Claim. (Cl. 284—16)



A detachable coupling comprising: a pair of coaxial fluid conducting members having front abutting ends making fluid connection therebetween; one of said members having a valve therein and an axial valve actuating stem protruding from said one member opposite its front end and opening said valve in a depressed position and closing said valve in an extended position, and means urging said stem toward said extended position; said one member having a pair of diametrically opposite bearing lugs on its sides; a yoke straddling said one member in the axial plane of said lugs with its ends bearing against the lugs and its bight juxtaposed to said protruding stem, said bight comprising a valve actuating element bearing against and depressing said stem; a pair of connecting links extending from overlapping relation with said yoke legs to overlapping relation with the other of said members, and hinge means connecting the overlapping portions of said links to said yoke legs and to said other member respectively for swinging movement of said yoke out of said axial plane.

2,662,785
ROTARY FLUID SEAL
Thomas L. Fawick, Cleveland, Ohio, assignor, by mesne assignments, to Federal Fawick Corporation, a corporation of Michigan
Application July 8, 1950, Serial No. 172,687
3 Claims. (Cl. 285—9)



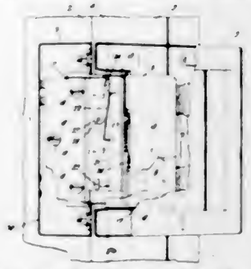
1. A rotary seal comprising two relatively rotatable members each formed with a fluid passage and means for maintaining sealed communication between the two passages, said means comprising a substantially rigid slip-seal ring having slip-seal face-to-face contact with one of the said members, on a slip-seal face transverse to the axis of rotation, in a single annular slip-seal zone surrounding the passage of that member at a substantial distance from said passage and having slip-seal contact with only that member, said slip-seal ring being formed with an annular groove in its face farthest axially from that member, the other one of said members having an annular groove surrounding its passage and facing the first said groove, and a static-seal ring of resiliently deformable material mounted under compression with a part of it in each of the pair of grooves and, by reason of its engagement with the walls of the grooves, constituting the only means for maintaining the centering and preventing rotation of itself and the slip-seal ring in relation to the one of the said members that does not have the recited slip-seal face.

2,662,786
WHEEL AND SHAFT MOUNTING FOR VEHICLES
Walter H. Newmaster, Ottumwa, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application December 23, 1949, Serial No. 134,709
3 Claims. (Cl. 287—20)



1. A shaft mounting, comprising: a support of generally rectangular section having front and rear parallel faces and opposite side faces normal to said front and rear faces, said support having a bore therethrough, said bore opening at its opposite ends respectively to the front and rear faces; a shaft carrier having a portion parallel to and overlying the rear face of the support and having an aperture in alinement with the bore in the support; a connecting pin passed through the aperture and bore and having an end projecting at the front face of the support; a pair of spaced ears on the support and lying respectively in planes paralleling the opposite sides of the support and projecting forwardly beyond the projecting end of the pin, said ears respectively having apertures alined on an axis normal to and substantially intersecting the axis of the bore ahead of the projecting end of the pin; a pair of spaced parallel ears on the carrier respectively alongside the support ears and respectively having apertures in alinement with the apertures in the support ears; a second connecting pin passed through the four ear apertures and extending across and in blocking relationship to the projecting end of the first connecting pin; and means retaining the second pin against displacement along its own axis.

2,662,787
MAGNETIC LATCH
Julius B. Horvay, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application September 14, 1951, Serial No. 246,600
10 Claims. (Cl. 292—251.5)



1. A magnetic latch adapted for use in constructions including a cabinet member and a closure member therefor comprising: a magnet carried fixedly by one of said members, and a pair of complementary magnet keepers mounted on the other of said members and adjustable relative to said magnet, one of said keepers being adjustable relative to the other.

2,662,788
CONTAINER AND CLOSURE ASSEMBLY
Herbert L. Carpenter, Amityville, N. Y., assignor to Carpenter Container Corporation, Brooklyn, N. Y., a corporation of Delaware
Original application June 13, 1947, Serial No. 754,542, now Patent No. 2,640,524, dated June 2, 1953. Divided and this application June 14, 1950, Serial No. 168,094
2 Claims. (Cl. 292—256.6)



1. In a container, the combination of a tubular container body; a closure for one end thereof; a split lock rim embracing and tightly engaging said end of the container body and having a portion overlapping the closure to hold it in position, said rim having overlapping and underlying end portions and said overlapping and underlying end portions each having a pair of retaining apertures extending therethrough in registry with each other, the slots in each pair being spaced from each other longitudinally of the rim and being the same distance from the edges of the rim; and means for retaining the rim in assembled relationship including a staple having a backing strip positioned between and engaged by the outer surface of the end of the container body and the undersurface of the underlying end portion of the split lock rim and a pair of pronged members formed integrally with the respective ends of the backing strip and projecting outwardly through the respective apertures in the overlapping and underlying end portions of the rim and bent over in the direction of the end of the overlapping portion so as to form tabs resting against the outer surface of the overlapping portion said tabs being of greater length than the apertures so that they cannot be withdrawn therethrough without distortion.

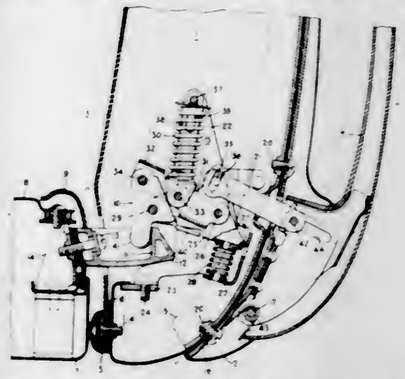
2,662,789
SEAL
Hans F. Stoffel, Scarsdale, N. Y.
Application April 12, 1949, Serial No. 87,038
5 Claims. (Cl. 292—322)



4. The combination, in a seal having two sections foldable upon each other into a locking position, of a tongue provided with a catch forming part on one of said sections, with a snap tooth positioned laterally and remote from said catch on said tongue, the other section being provided with a slot for receiving said catch and said snap tooth successively, said snap tooth being located on said tongue so as to project laterally beyond one end wall defining said slot for engaging behind said end wall, whereby during movement of said sections in said locking position said sections are temporarily laterally distorted with respect to each other and cause an audible snapping sound after said catch has passed said slot and is locked therein and upon subsequent passage of said snap tooth through said slot.

2,662,790
DOOR LATCHING MECHANISM
Francis M. Hogg, Findley Lake, N. Y., assignor to General Electric Company, a corporation of New York
Application January 1, 1945, Serial No. 570,870
8 Claims. (Cl. 292—332)

7. In a door latch, a latch bolt movable in a plane substantially normal to the door axis and adapted to engage a keeper having a bolt-retaining surface substantially parallel to said axis, a toggle associated with said bolt and arranged to operate by expansion to advance the bolt into interlocking engagement with said keeper with increasingly amplified force as the toggle approaches the fully expanded position, resilient means operatively connected with said toggle for urging the toggle into the expanded position, and means for retracting the toggle against the action of said resilient means to disengage the bolt from the keeper, said bolt, toggle and keeper being constructed and relatively arranged so that the bolt when advanced into said engagement will meet the said retaining surface of the keeper substantially before the bolt has moved into the fully advanced position whereby the said resilient means may be effective through the extending toggle to draw the door securely to a tightly closed position.



2,662,791
PIPE ELEVATOR
Walter E. Kittler, Mandan, N. Dak.
Application May 19, 1951, Serial No. 227,158
1 Claim. (Cl. 294—91)

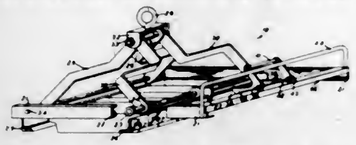


A pipe elevator comprising an enlarged upper loop terminating at its lower end in a diminished neck portion closed at its lower end to form a keyhole-shaped opening therein with an elongated diminished neck portion, said elongated diminished neck opening having a sharp right angle bend in an intermediate portion thereof to form an outstanding gripping flange at the lower portion of the elevator for gripping and securely anchoring a pipe coupling after the same has been inserted through the said enlarged upper loop, the inside diameter of said enlarged loop portion being sufficiently large to permit the outstanding flange to be passed therethrough and the combined length of the enlarged loop portion with the length of the portion of said diminished neck disposed above said flange being greater than the outside width of said enlarged loop.

2,662,792
MATERIAL-HANDLING APPARATUS
Charles W. Ruth, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 9, 1950, Serial No. 184,073
8 Claims. (Cl. 294—103)

1. A grapple comprising a frame, a fixed jaw and a cooperating movable jaw mounted on said

frame, means mounted on the frame for guiding the movable jaw in a straight-line reciprocatory motion toward and away from the stationary jaw, lifting means located above the frame, and toggle means secured to the lifting means for actuating the movable jaw comprising a first link and a second link mutually pivotally secured



to the lifting means, said first link also being secured pivotally and directly to the frame and said second linking means also being secured pivotally and directly to the movable jaw, whereby actuation of the lifting means imparts relative straight-line motion to the movable jaw to open and close the jaws.

2,662,793

REAR-END CONSTRUCTION OF SELF-SUPPORTING AUTOMOBILE BODIES

Alexander R. Lindsay, Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 27, 1948, Serial No. 29,457
14 Claims. (Cl. 296—28)



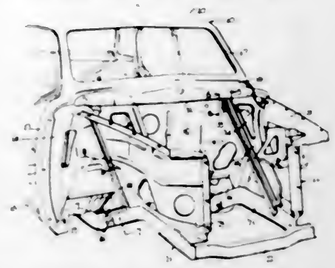
1. In a combined body floor and chassis frame structure for automobiles, a floor panel extending between and fore and aft beyond recesses for a pair of rear wheels, a wheel housing structure on each side of the panel secured by its lower marginal portions to the margins of the panel defining the recess, a transverse beam being forwardly appreciably spaced and a second transverse beam being rearwardly appreciably spaced from said wheel housing structures, both beams extending to the outer margins of the floor panel and being secured to the latter, longitudinally extending short hollow section members arranged inwardly of the outer margins of and secured to the floor panel, said members extending between and being overlappingly secured to those sides of said wheel housing structures and said transverse beams which are adjacent and face each other, said members being substantially restricted to the space between the end regions of said wheel housing structures and the respective adjacent transverse beams, and means on said members for the attachment of the ends of longitudinal leaf springs connected with the wheels in said wheel housing structures, the marginal portions of said floor panel together with said wheel housing structures and hollow section members constituting the sole lateral sill structures of the frame structure in the region of said wheel housing structures.

2,662,794

FINAL CONNECTION BETWEEN PREASSEMBLED UNITS OF SELF-SUPPORTING AUTOMOBILE BODIES

Alexander R. Lindsay, Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 8, 1950, Serial No. 166,889
10 Claims. (Cl. 296—28)



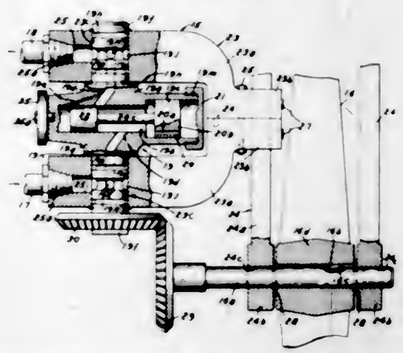
1. Final assembly joints between a pre-assembled multi-piece end unit and a pre-assembled multi-piece middle unit of a self-supporting automobile body, the middle unit forming the load body and being closed as a pre-assembled part thereof by a structural transverse wall in the region to be adjoined by the end unit, and the end unit projecting longitudinally beyond the middle unit upon final assembly of the units with each other and constituting an extension of and completing the body, the joints comprising throughout elongated webs provided on and outwardly projecting beyond said closed region of said middle unit and mating webs on said end unit, said webs overlappingly engaging each other in final assembly of said end unit and said middle unit and being accessible on the outside of said middle unit to tools for securing said webs together in their regions of overlap.

2,662,795

GOVERNOR FOR SPRAYERS

Loren E. Bartling, Detroit, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware

Application August 3, 1950, Serial No. 177,511
3 Claims. (Cl. 299—46)



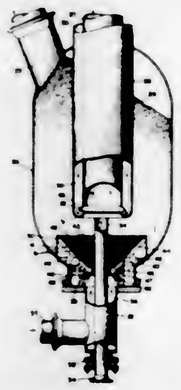
3. In a mobile sprayer having a pressured fluid source and a discharge nozzle, the improvements of a valve connected in fluid controlling relationship between said source and said nozzle, said valve comprising a support, a body portion rotatably journaled on said support, means for rotating said body portion in proportion to the ground speed of the sprayer, said body portion defining an enclosed bore extending transversely to the axis of rotation of said body member, said body portion also having a pair of fluid passages therein respectively communicating with opposite sides of said bore, a weighted valve element slidably mounted in said bore, said valve element being shiftable in one direction along said bore by centrifugal force, a piston portion on said valve element cooperating with one of said passages to control fluid flow therethrough as a function of the position of said valve element in said bore, and fluid conduit means in said support respectively communicating with said fluid passages and adapted for connection respectively in fluid circuit relationship with said fluid source, said body portion also defining a bleed passage between one of said passages and said bore to subject said valve element to an unbalanced pressure force opposing the centrifugal displacement of said valve element, whereby fluid flow through said valve varies in proportion to ground speed.

2,662,796

APPARATUS FOR ELEVATING GRANULAR MATERIAL

Hubert A. Shabaker, Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application July 20, 1950, Serial No. 174,993
14 Claims. (Cl. 302—53)



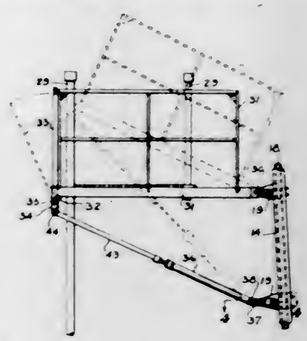
1. Apparatus for elevating granular material by means of a gaseous lift medium comprising in combination an elongated lift pipe, an introduction chamber surrounding the lower end of said lift pipe and adapted to contain a compact moving bed of said granular material flowing downwardly around and upwardly into said lift pipe, a sleeve surrounding said lift pipe and forming therewith an annular passage for conducting lift gas into said chamber, said sleeve being turned inwardly and upwardly at its lower end and forming with the lower end of said lift pipe a circumferential inlet adapted to discharge lift gas from said annular passage upwardly into said lift pipe, means for introducing an upwardly directed stream of lift gas centrally into the open end of said lift pipe, and means for introducing lift gas into said moving bed from below said open end of the lift pipe and throughout a wide horizontal area substantially greater than the cross-section area of said lift pipe.

2,662,797

PLATFORM FOR PORTABLE DRILLING MASTS

James Moon, Altadena, Calif., assignor to Western Oil Tool & Engineering Co. Inc., Hollydale, Calif., a corporation of California

Application September 29, 1947, Serial No. 776,631
3 Claims. (Cl. 304—14)



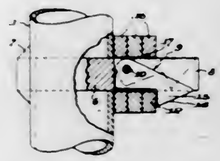
1. A tubing platform for demountable drilling masts, which comprises an elongated mast, a tubing platform for said mast, a hinge mounting between said mast and one end of said platform, a pivotally mounted gate for said platform, a pivotally mounted link on the front of said platform, said gate being mounted upon said link, a telescoping bracing link pivotally mounted on said first-mentioned link, and a pivotal connection between said telescoping bracing link and said mast.

2,662,798

BRACING FOR SCAFFOLDS AND THE LIKE

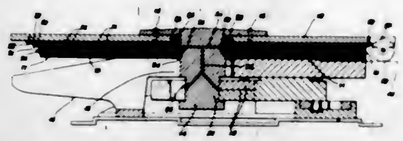
John A. Kirkpatrick, Zelienople, Pa., assignor to Universal Manufacturing Corp., Zelienople, Pa., a corporation of Pennsylvania

Application December 7, 1950, Serial No. 199,705
1 Claim. (Cl. 304—40)



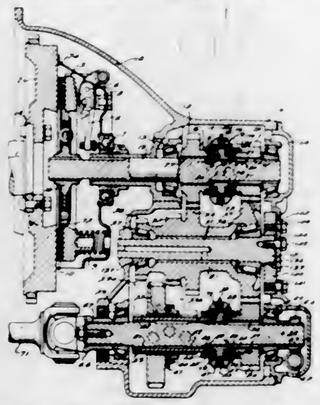
A coupling for connecting a brace to a vertical leg, said coupling comprising a horizontal pin adapted to project from the side of said leg and extend through a hole in an end of said brace, the pin having a vertical slot in it, and a latch disposed in the slot with its inner end pivotally mounted therein, the latch having a depending projection at its outer end that extends below the pin to lock the brace thereon when the latch swings downward by gravity, the latch being provided with a surface adapted to engage the pin at the inner end of said slot to limit downward swinging of said projection, and the projection having a surface inclined from its bottom outward and upward to the pin to cause the projection to swing upward when a brace is pushed inward over the pin and against said inclined surface, the outer end of the latch being disposed in the slot when the latch is in its lower position.

2,662,799
FIFTH WHEEL FOR TRACTOR TRAILERS AND THE LIKE
Gustave C. Schaefer, Canton, Ohio
Application February 5, 1951, Serial No. 209,462
5 Claims. (Cl. 308—136)



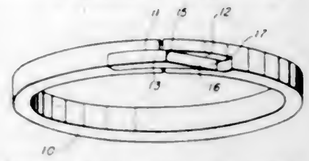
1. A fifth wheel bearing comprising a lower fifth wheel member having a substantially flat top surface, an upper fifth wheel member comprising a substantially horizontal plate, a king pin fixed to the upper member and depending therefrom for detachable connection to the lower member, an annular flange retaining ring fixed to the underside of the upper member, an annular housing having an annular flange at its upper open end rotatably mounted upon said flange retaining ring and surrounding the king pin, said housing having a flat bottom wall adapted to contact the flat top surface of the lower member, a cylindrical hub fixed to the central portion of the housing and surrounding the king pin, said hub extending entirely through said upper member, a plurality of discs independently rotatably mounted within the housing, and means for inserting lubricant into the housing.

2,662,800
TRANSMISSION
Roscoe C. Hoffman, Detroit, Mich.
Original application June 17, 1947, Serial No. 755,212, now Patent No. 2,572,480, dated October 23, 1951. Divided and this application April 7, 1951, Serial No. 219,789
2 Claims. (Cl. 308—207)



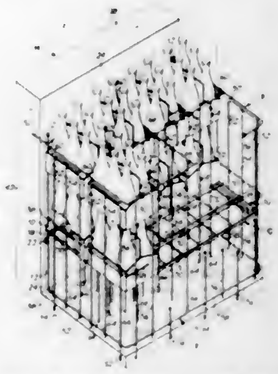
1. Means for adjustably journaling a rotatable body within a case which has an opening in one wall thereof and which also has a supporting portion spaced from but substantially aligned with said opening, a stationary spindle adapted to be carried at one end by said supporting portion, a closure member for said opening, said spindle being longitudinally movable in said supporting portion and removable through said opening, means for securing said spindle to the closure in different longitudinal positions, and a pair of oppositely facing tapered antifriction bearings supported by said spindle and adapted to journal a rotatable body, one of said bearings having a race portion longitudinally movable with the spindle and the other bearing having a race portion held against such longitudinal movement.

2,662,801
PISTON RING
William S. Baker, Fort Worth, Tex.
Application May 14, 1949, Serial No. 93,357
8 Claims. (Cl. 309—46)



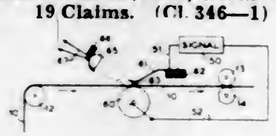
5. A piston ring having an outer face constructed to engage a cylinder wall, said ring comprising, a split resilient annulus having a groove in its outer face extending inwardly from one of its split ends and a tongue extending from the opposite end of the ring and lying within the groove, the inner circumferential surface of the tongue snugly engaging the bottom of said groove, the tongue being progressively reduced in radial thickness from a point within the groove when the ring is compressed to the outer extremity of said tongue to form a tapered end on said tongue less in width than that portion of the groove adjacent said tongue end, the latter being spaced radially inwardly from the outer periphery of the ring when the ring is normally compressed.

2,662,802
SELF-LEVELING DISPENSER
William J. Gibbs, East Rockaway, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey
Application April 12, 1950, Serial No. 155,547
9 Claims. (Cl. 312—71)



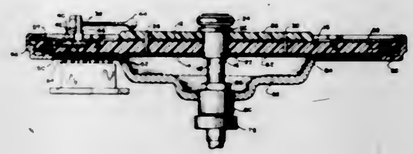
1. Apparatus for storing material in stacks so that it will be visible and readily accessible, said apparatus comprising, a base, vertical support structure rising upwardly from one side of said base, a wire enclosure surrounding and extending upwardly around the perimeter of said base, means for connecting the lower portion of said wire enclosure to the base, means for connecting the ends of said wire enclosure to said upright structure, a carrier mounted for free up and down movement inside of said wire enclosure, partitions consisting of vertical guide rods extending downwardly through said carrier into said base and between said wire enclosure and vertical support structure to subdivide the wire enclosure into a plurality of individual vertical compartments, horizontal rods interconnecting the top of said vertical guide rods making up said partitions with the top side of said wire enclosure for rigidly supporting said vertical guide rods and for limiting the distance said carrier can travel upwardly and a counterbalancing device for exerting an upward pressure on said carrier which is proportional to the distance said carrier is moved downwardly so as to maintain the upper layer of material supported thereon readily accessible at the top of said wire enclosure.

2,662,803
RECORDING METHOD AND APPARATUS
Robert S. Schwartz, Bronxville, N. Y., assignor to Faximile, Inc., New York, N. Y., a corporation of Delaware
Application June 29, 1949, Serial No. 102,136
19 Claims. (Cl. 346—1)



1. Electrical recorder means comprising in combination, a recording medium which is initially essentially non-conductive and is electroconductive when heated and which marks responsively to electric current, a first electrode and a second electrode closely spaced therefrom, means for feeding the recording medium past said electrodes so that the medium completes an electrical circuit therebetween, and heating means positioned to maintain that changing portion of the medium which completes the circuit at a sufficiently high temperature by external application of heat to render the medium electro-conductive.

2,662,804
RECORDING DISK CLAMPING DEVICE
Ulric O. Hutton, Brinklow, Md., assignor to the United States of America as represented by the Secretary of the Army
Application January 6, 1953, Serial No. 329,820
3 Claims. (Cl. 346—137)



1. A device for retaining a circular recording medium mounted on a disk holder having at least two concentric embossments on one surface thereof comprising a circular channel intermediate the outermost embossment and the periphery of said disk holder, a plurality of compressible springs disposed within said channel, an annular clamp ring within said channel in abutment with said compressible springs and having an exposed serrated surface contiguous to said recording medium, means circumferentially surrounding said annular clamp ring for retaining said ring within the confines of said channel when said springs are in the non-compressed state, a substantially U-shaped clamp ring engirdling said disk holder, one arm of said U-shaped clamp ring having an inwardly extending circular flanged portion aligned with said outermost embossment and an annular embossment aligned with said serrated surface, and means slidably mounted on the other surface of said disk holder and adapted to be engaged with said U-shaped clamp ring for locking said clamp ring in position around the periphery of said disk holder whereby said springs are compressed to maintain said recording medium taut over said concentric embossments.

CHEMICAL

2,662,805
SIMULTANEOUS DRUMMING AND VACUUM TREATING OF SKINS
Charles F. Rutherford, Philadelphia, Samuel Cameron Tease, Media, and Harry La Rue Troxell, Jr., Narberth, Pa., assignors to High Vacuum Processes, Inc., Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application December 8, 1950, Serial No. 199,912
8 Claims. (Cl. 8—12)

1. In a method of processing skins with minimum shrinkage with a solution selected from the group consisting of unhairing, tanning and coloring solutions, the steps which comprise charging the skins into an air-tight container, withdrawing air from said container while slowly rotating said container, continuing the air withdrawal until a high vacuum of about 2000–500 microns mercury is attained, introducing said solution into said container to a level substantially covering said skins, and slowly rotating the container lifting the skins above the liquid level, flexing said skins in the evacuated space above the liquid level, and returning said skins below the surface of the liquid while maintaining vacuum in said container.

2,662,806
PROCESS FOR THE DYEING OF CELLULOSIC MATERIALS AND DYESTUFF PREPARATIONS SUITABLE FOR THIS PURPOSE
Karl Menzi, Henri Riat, and Jacques Wegmann, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application July 20, 1950, Serial No. 175,014
Claims priority, application Switzerland July 29, 1949
14 Claims. (Cl. 8—42)

1. Process for dyeing cellulosic materials which comprises carrying out the dyeing with a metal compound difficultly soluble per se of a direct dyeing azo dyestuff which contains in complex union one of the metals with the atomic numbers 27 to 29 in the presence of a solid base of the composition

$$C_nH_{2n}=(-NH-\underset{R_1}{\overset{|}{C}}-CH_2-OH)_2$$

wherein R_1 stands for a member selected from the group consisting of a hydrogen atom, an alkyl group with at the most three carbon atoms and

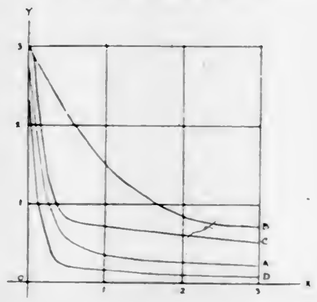
a hydroxymethyl group, R_2 stands for a member selected from the group consisting of a hydrogen atom and a methyl group and n represents a whole number up to 4.

2,662,807

PROCESS FOR DYEING CELLULOSE FIBERS WITH DIRECT-DYEING CUPRIFEROUS AZO-DYESTUFFS AND DYEBATHS USED THEREFOR

Jacques Wegmann and Karl Mensi, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

Application November 7, 1951, Serial No. 255,247
Claims priority, application France November 10, 1950
17 Claims. (Cl. 8—42)



1. A process for dyeing cellulose fibers with direct-dyeing metalliferous azo dyestuffs containing in complex union a metal having an atomic number ranging from 28 to 29 which process comprises using a dyebath containing an aliphatic amine of the formula

$$C_nH_{2n}=(-NH-\underset{R_1}{\overset{R_1}{C}}-CH_2-OH)_2$$

in which R_1 indicates a member selected from the group consisting of a hydrogen atom, an alkyl group with at most three carbon atoms and a hydroxymethyl group, R_2 indicates a member selected from the group consisting of a hydrogen atom and a methyl group and n represents a whole number which is at most 4.

2,662,808

CORROSION INHIBITION WITH NITROBENZALDEHYDES

Wilfrid W. Newschwander, Ellensburg, Wash., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 2, 1949, Serial No. 91,019
9 Claims. (Cl. 21—2.5)

1. A substantially solid sheet packaging material containing a compound selected from the group consisting of isomeric nitrobenzaldehydes and the lower alkyl derivatives thereof in an amount of between about 0.01 gram and about 5 grams per square foot of said substantially solid sheet packaging material.

2,662,809

METHOD OF RECOVERING LITHIUM COMPOUNDS FROM LITHIUM MINERALS

Adolphe Victor Kroll, Grevenmacher-Pieter, Luxemburg, assignor, by mesne assignments, to Compagnie Geologique et Miniere des Ingenieurs et Industriels Belges "Geomines" Societe par Actions a Responsabilite Limitee, Manono, Belgian-Congo, a company of Belgian-Congo

No Drawing. Application May 1, 1950, Serial No. 159,390
Claims priority, application Belgium May 7, 1949
9 Claims. (Cl. 23—30)

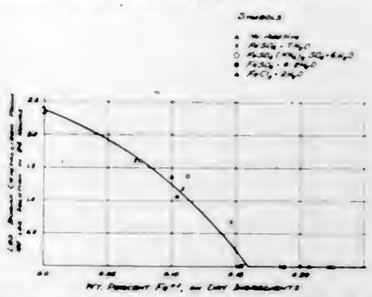
1. A method of recovering lithium from its aluminum and silicate containing ores comprising mixing the ore with at least 2.5% but less than 100% of an alkaline compound selected from the group consisting of the oxides, carbonates and hydroxides of alkali metals other than lithium and the oxides, carbonates and hydroxides of the alkaline earth metals based upon the lithium mineral content of the ore, calcining said mixture at a temperature from about 700° C. upwards to at least partially fuse the mixture to obtain thereby a calcined product non-leachable with water, and thereafter leaching the calcined product with an aqueous leaching electrolyte other than lithium, said electrolyte being selected from the group consisting of hydrochloric acid, alkali metal chlorides, alkali metal sulphates, alkali metal nitrates, alkaline earth chlorides and alkaline earth nitrates to obtain the lithium salt formed in the aqueous leaching solution.

2,662,810

STABILIZATION OF BORAX SUPERSATURATION IN SOLUTIONS

Donald S. Taylor, Monrovia, and George A. Connell, Los Angeles, Calif., assignors to Borax Consolidated, Limited, London, England, a corporation of Great Britain and Northern Ireland

Application September 26, 1949, Serial No. 117,806
4 Claims. (Cl. 23—59)



1. The method of stabilizing a state of supersaturation with respect to borax in aqueous solution during a holding period of appreciable duration; said method comprising producing an aqueous solution that is substantially saturated with respect to borax, providing in the solution a stabilizing agent selected from the class consisting of metal salts of fatty acids, surface active sulfonated organic compounds and surface active sulfated organic compounds, the concentration of said stabilizing agent being greater than about one tenth percent on the dry weight of the other solutes present, and then holding the solution continuously during the said holding period under conditions for which the equilibrium solubility with respect to borax is less than the existing borax concentration of the solution by an amount that is insufficient, by virtue of the presence of the said stabilizing agent, to cause appreciable crystallization of borax.

2,662,811

METHOD OF MAKING AMMONIUM SULPHATE

Alfred M. Thomsen, San Francisco, Calif.

Application February 12, 1951, Serial No. 210,477
3 Claims. (Cl. 23—119)



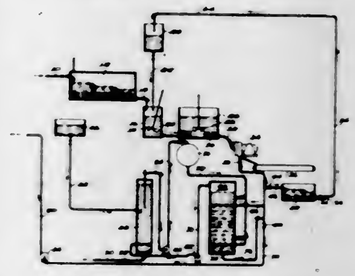
1. The method of making ammonium sulphate which comprises; roasting an ore containing sulphides of iron, zinc and copper at such a temperature that approximately one-half of the copper-zinc content shall be present in the calcines as water soluble sulphate; leaching the calcines to produce a residue insoluble in water and a solution of sulphates of iron, zinc, and copper; oxidizing said solution and precipitating the contained iron by the addition of the necessary amount of a basic ammonia compound, selected from the group containing the carbonate, hydroxide and sulphide of ammonia; removing the resulting precipitate of ferric hydroxide and commingling the resultant solution with sufficient water-soluble sulphide to precipitate the resident copper as copper sulphide; separating said copper sulphide and reserving the resultant solution of zinc and ammonium sulphate for future treatment; re-roasting the leached residue from the first roasting step at a temperature sufficiently high to ensure complete oxidation of the resident sulphides; commingling said dead-roasted calcines with carbonated ammonia water in sufficient amount to produce complete solution of the still resident zinc and copper; separating the insoluble residue from the copper-zinc ammonium carbonate solution; purifying said solution from copper by adding the requisite amount of a soluble sulphide and separating the resultant precipitate of copper sulphide; commingling the resultant zinc solution with the one previously made and reserved for future treatment and separating the zinc carbonate produced thereby; commingling the resultant zinc containing solution of ammonium sulphate with gas from the roasting steps and with sufficient basic ammonia compound, selected from the group previously defined, to react therewith forming additional sulphate of ammonia and elemental sulphur; separating said sulphur; purifying the resultant ammonium sulphate solution from zinc by a further addition of a soluble sulphide and separating the precipitated zinc sulphide thus produced from the resultant solution of ammonium sulphate.

2,662,812

REGENERATION OF SPENT PICKLE LIQUOR AND RECOVERY OF FERROUS SULFATE MONOHYDRATE

Joseph A. Shaw, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application November 3, 1949, Serial No. 125,365
7 Claims. (Cl. 23—126)



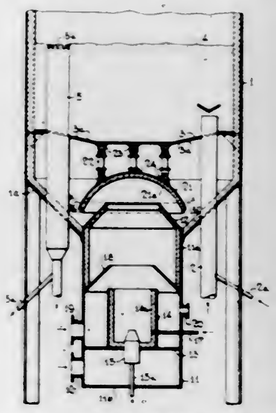
5. The method of separating into ferrous sulphate and sulphuric acid, pickle liquor that has been produced by treating ferrous metal witn sulphuric acid, said method comprising in combination the steps of evaporating said pickle liquor until the same is saturated with respect to said ferrous sulphate but without any substantial crystallization of ferrous sulphate therefrom, thereafter adding sufficient concentrated sulphuric acid to said evaporated liquor to precipitate the iron in the solution as ferrous sulphate monohydrate and finally separating the so-precipitated monohydrate from said acid liquor.

2,662,813

REGENERATOR APPARATUS FOR FLUIDIZABLE SOLID MATERIALS

John W. Packie, Maplewood, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 23, 1951, Serial No. 233,228
5 Claims. (Cl. 23—288)



1. In a system of the character described, the combination of a reaction vessel and a means for heating the vessel and for supplying gaseous reactant materials thereto, comprising a reaction vessel having a bottom end wall, a hollow casing member mounted substantially integrally with said end wall, dependent therefrom below the vessel and with an upper end portion extending vertically through said end wall, said portion

terminating within the vessel beyond said wall, a fuel burner within said casing including a combustion chamber and means for supplying fuel and combustion air thereto, separate conduit means for passing a stream of an oxygen-containing gas through said casing, an outlet from said casing through the upper end thereof opening upwardly within said vessel, and a cap member for said casing outlet suspended in said vessel concentrically with the casing, in vertically spaced relation to said outlet, a peripheral edge portion on said cap substantially enclosing the upper end of said casing in radially spaced relation thereto, and forming therewith a downwardly opening annular passageway between said cap and casing.

2,662,814

METHOD AND COMPOSITION FOR CHEMICALLY POLISHING METALS

John R. Swihart, Chicago Heights, Ill., assignor to The Diversey Corporation, a corporation of Illinois

No Drawing. Application August 27, 1949, Serial No. 112,840
9 Claims. (Cl. 41—42)

1. A bath for the chemical polishing of stainless steel surfaces and the removal of scale therefrom, consisting essentially of an aqueous solution having a total acid concentration between 20 and 35% by weight and including nitric acid, hydrochloric acid, and between about 15 to 25% by weight of the total solution of an acid of the class consisting of phosphoric acid, sulfuric acid, and a mixture of phosphoric and sulfuric acids, at least 2% of the total solution being nitric acid and at least 2% being hydrochloric acid, with the combined weight of the nitric and hydrochloric acids being not more than the total weight of said class.

2,662,815

OXIDATION INHIBITORS

Harry W. Rudel, Roselle Park, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application January 7, 1949, Serial No. 69,830
2 Claims. (Cl. 44—64)

1. A hydrocarbon composition normally characterized by oxidation instability, and chosen from the class consisting of gasoline, lubricating oil and turbine oil, in which is dissolved an oxidation inhibiting quantity of N-nitroso diphenyl amine.

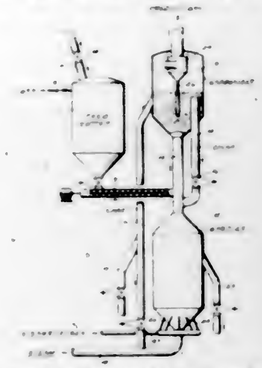
2,662,816

GASIFICATION OF CARBONACEOUS MATERIALS CONTAINING VOLATILE CONSTITUENTS

John C. Kalbach, New York, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

Application July 20, 1948, Serial No. 39,733
2 Claims. (Cl. 48—202)

1. A process for the carbonization and gasification of solid carbonaceous material containing volatilizable constituents which comprises maintaining a dense phase fluidized bed of particles of solid carbonaceous material in a carbonization zone wherein volatilizable constituents are distilled from said particles producing carbonized material, passing carbonized material from said carbonization zone to a separate gasification zone, subjecting said carbonized material to reaction with oxygen and steam in said gasification zone to produce a primary gas consisting essentially of carbon monoxide and hydrogen, passing a stream of said primary gas through an intermediate zone of restricted cross-sectional area directly into the lower portion of said carbonization zone thereby effecting fluidization of the carbonaceous material therein and distillation of said volatilizable constituents, introducing particles of fresh carbonaceous material containing volatilizable constituents into said stream of primary gas in said intermediate zone, introducing particles of carbonized material substantially



free from volatilizable constituents from said carbonization zone directly into said stream of primary gas in said intermediate zone upstream from the point of introduction of said fresh carbonaceous material and in controlled amounts whereby at least 3 parts by weight of carbonized material is added per part of said fresh carbonaceous material, maintaining the velocity of said stream of primary gas through said intermediate zone at a velocity sufficient to entrain said particles of said fresh and carbonized material therein, and discharging from said carbonization zone the resulting gas containing volatilized constituents and products of reaction.

2,662,817

JET TURBINE ENGINE FUEL, INCLUDING METHANOL AND ISOPROPANOL

Barrett B. Russell 3rd, Elizabeth, and Nathaniel H. Rickles, Roselle Park, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 22, 1948, Serial No. 66,826
4 Claims. (Cl. 52—.5)

1. A jet turbine fuel comprising a hydrocarbon fuel base having an initial boiling point of about 315° F., a 10% distillation point below about 410° F., and a final distillation point below about 572° F., said fuel base having a kinematic viscosity at −40° F. of about 10.6, and about 25 to 75 percent by volume of a mixture of methanol and isopropanol.

2,662,818

AMMUNITION PRIMING COMPOSITION AND PROCESS FOR PRODUCING SAME

Alfons G. Schuricht, Alton, Ill., assignor to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware

No Drawing. Application October 21, 1949, Serial No. 122,868
5 Claims. (Cl. 52—4)

1. In the manufacture of ammunition priming compositions by water-wet mixing of ingredients, the method which comprises including from about 0.1% to about 5.0% of an aerogel in the water-wet mixture.

5. A priming composition comprising an initiating explosive and 0.1% to 5.0% of an aerogel.

2,662,819

PRODUCTION OF TRANSFORMER AND DYNAMO STEELS

Heinz Höfges and Ernst Goebel, Hamborn, Germany

No Drawing. Application June 23, 1951, Serial No. 233,264
Claims priority, application Germany February 28, 1949
1 Claim. (Cl. 75—129)

A method for the production of high silicon transformer and dynamo steels, comprising charging a pig iron containing up to about 1.0 per cent Mn and up to about 0.12 per cent P into a Bessemer converter, blasting the metal at a temperature of about 1650–1680° C. to produce steel having about 0.02 per cent C, less than 0.3 per cent Mn, up to about 0.12 per cent P and less than 0.05 per cent S, tapping the steel into a first ladle, refining the same in said ladle by the admixture of a basic calcium and iron silicate slag to about 0.01 per cent C, to less than 0.20 per cent Mn, less than 0.04 per cent P, and less than 0.03 per cent S, transferring the steel into a second ladle, adding to the steel in said second ladle a mixture of Al, CaF_2 and of a substance selected from the group consisting of CaSi and FeSi, treating the steel with the said mixture until the desired silicon content and a temperature is reached of about 1680° C., keeping the steel at rest for about thirty minutes and pouring the same at a temperature of about 1600° C.

2,662,820

METHOD FOR PRODUCING CAST IRON

Lester C. Crome, West Alexandria, Ohio, assignor to The Dayton Malleable Iron Company, Dayton, Ohio, a corporation of Ohio

No Drawing. Application June 30, 1950, Serial No. 171,563
16 Claims. (Cl. 75—130)

10. A process for producing iron castings of the character described in which graphitic carbon formed during the casting and cooling thereof is substantially entirely present in spherical or nodular form without subsequent annealing and which are substantially free of flake-like graphitic carbon, which process comprises the steps of preparing a molten gray iron mix, adding to said mix before pouring a limited modifying amount of approximately 1.5% calcium silicide as a nodular graphite forming agent, 2% calcium fluoride as a fluxing agent, in combination with approximately 0.5% zirconium for extending the duration of the nodular forming effect of said calcium silicide, and pouring said molten mix into a mold for producing said iron casting.

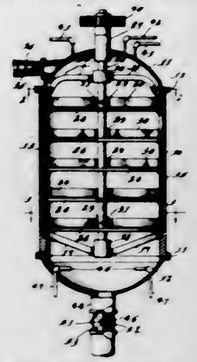
2,662,821

FIBER PREPARATION DEVICE

Carl G. Muench, Glenview, Ill., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware

Application May 3, 1949, Serial No. 91,161
2 Claims. (Cl. 92—7)

1. A digester construction comprising a housing shell, top and bottom heads therefor, one of such heads removably mounted to and secured to the shell, a removable assembly mounted in the housing shell, the removable assembly comprising an elongated unitary cage member, central shaft bearings mounted to the unitary cage member centrally thereof at each end, spaced shelf members mounted to the cage member, a central shaft carried by the cage member and mounted in said shaft bearings, groups of spaced substantially radial arms mounted in spaced relation along and to the shaft and positioned thereon to sweep over the upper surface of each of the shelf members, each shelf member having a segmental opening therethrough and of configuration and dimensions substantially that of the area encompassed



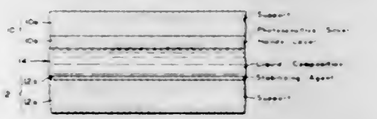
between adjacent substantially radial arms of a group thereof, the openings in the shelf members circumferentially offset with respect to such openings in adjacent shelves by an amount substantially equal to the width of a such opening, the shell interiorly thereof providing abutment surfaces and the such abutment surfaces and portions of the unitary cage member engaging and restraining relative rotation of the cage member with respect to the shell.

2,662,822

PHOTOGRAPHIC TRANSFER PROCESSES AND COMPOSITIONS FOR THE PRACTICE OF SAID PROCESSES

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application April 21, 1949, Serial No. 88,832
27 Claims. (Cl. 95—88)



1. The process of obtaining transfer prints which comprises applying a relatively thin, discrete layer of a liquid processing composition on the surface of a photosensitive silver halide element containing a latent image, said composition, when applied, including a silver halide developer, a silver halide solvent, solid minute particles of a substance insoluble in said composition for accelerating the reduction by said developer of silver-bearing ions in solution in said composition, and a thickening agent increasing the viscosity of said composition sufficiently to keep said particles in suspension, said thickening agent providing a solid film upon the removal of the liquid content of said layer of processing composition, transporting, by absorption, part at least of said composition into the silver halide layer of said element, developing the latent image and forming a soluble complex with undeveloped silver halide in a stratum of the silver halide layer of said element permeated by the

liquid of the composition, transporting said soluble complex from said emulsion to the film of said thickening agent remaining on said surface, and rapidly precipitating silver from the solution of said complex to form an image in silver in said film which is the positive of the subject matter of the latent image.

13. A liquid processing composition for forming prints by the transfer of components from a silver halide emulsion, said composition comprising a silver halide developer, solid minute particles of a substance substantially insoluble in said composition, said particles constituting reduction centers for accelerating the reduction by said developer of silver-bearing ions in said composition, and a thickening agent increasing the viscosity of the composition sufficiently to keep the particles in suspension, said thickening agent providing a solid, film-forming residue when the liquid of said composition is removed therefrom, said substance being at least one compound from the class consisting of the relatively insoluble metal sulfides and selenides.

2,662,823

METHOD OF SOUP CANNING

Harold F. Snow, Pine Point, Maine, assignor to The F. H. Snow Canning Company Inc., Pine Point, Maine, a corporation of Maine

No Drawing. Application July 26, 1950, Serial No. 176,069

5 Claims. (Cl. 99—186)

1. The process of making a soup from such dried seeds as peas, beans, and lentils that comprises placing in a container, a predetermined weight of such seeds in split form and in a raw state and a predetermined weight of water and at least one ingredient from a group including fats, oils, seasonings, and flavorings, sealing the container, and subjecting the contents of the container to a temperature and for a time related thereto to sterilize said contents and to cook the seeds until they are soft and fragile but retain their form thereby to maintain the efficiency of the water as a heat exchanging medium substantially unimpaired, subsequently agitating said contents to effect at least a partial break up of the cooked seeds and the dispersion of such broken up seeds to complete the soup.

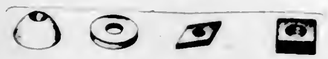
2,662,824

PROCESS OF TREATING APPLE SECTIONS

Mary W. Talbert, Columbia, Mo.

Application October 4, 1949, Serial No. 119,506

1 Claim. (Cl. 99—193)



A process for producing a food product from apples, comprising the steps of washing, peeling, coring, and slicing the apples into sections, subjecting the apple sections to a sulphurous acid bath in order to bleach the same and to remove any dark spots therefrom, boiling the bleached apple sections for approximately ten to thirty minutes in a solution consisting of approximately sixty-six parts water, thirty-three parts sugar and one part gelatin to cook the sections and impregnate them with the solution, removing the sections from the solution, cooling the sections, packaging the cooked sections, and subjecting the packaged sections to refrigeration to further lower their temperature and assist in their preservation.

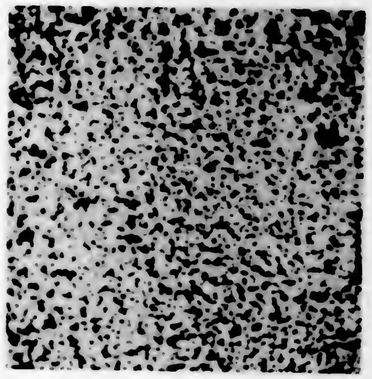
2,662,825

REFRACTORY

Hans O. Kauffmann, Eggertsville, and James F. Whalen, Jr., Kenmore, N. Y., assignors to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y.

Application June 5, 1948, Serial No. 31,286

5 Claims. (Cl. 106—40)



5. A molding composition for the manufacture of porous ware comprising an aqueous suspension of a refractory clay in major amount, and calcined gypsum in minor amount, said suspension being alkaline and containing an inorganic peroxide, a catalyst of decomposition for the peroxide and an introfier.

2,662,826

SELF-GLAZING CERAMIC COMPOSITIONS

Paul Schuepp, Tarbes, France, assignor to Compagnie Generale d'Electro-Ceramique, Paris, France, a French corporation

No Drawing. Application October 30, 1950, Serial No. 193,039

5 Claims. (Cl. 106—45)

1. A ceramic composition containing by weight 45 to 60 percent of silica, 9 to 15 percent of magnesia, 30 to 45 percent of alumina, and an addition of metallic oxides chosen from the group consisting of alkali metal oxides and alkaline earth oxides and of coloring material selected from the group consisting of Si, SiC, W, Mo, the oxides of Au, Cu, Cd, V, Cr, Mn, W, Mo, Co, Ni, these metallic oxides and this coloring material being in such proportions that the composition will be self-glazing and colored in the mass by firing.

2,662,827

WELL CEMENTING

Joseph B. Clark, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

No Drawing. Application March 12, 1946, Serial No. 653,939

5 Claims. (Cl. 106—92)

1. A hydraulic cement slurry having a retarded tendency to dehydrate physically and adapted for cementing an oil well, said slurry consisting of Portland cement, water, and a cement water-loss-reducing additive including prehydrated starch in an amount of at least 1.5 per cent of the weight of said cement and in an amount that substantially inhibits the tendency of the slurry to lose water when said slurry contacts the permeable formations penetrated by said well under elevated pressures.

2,662,828

SCRIBABLE COATING COMPOSITION

Roger P. Dubusc, Boulogne, France, assignor to Compagnie pour la Fabrication des Compteurs et Materiel d'Usines a Gaz, Montrouge, France, a corporation of France

Application December 12, 1950, Serial No. 200,418

1 Claim. (Cl. 106—175)

A mixture for application to a cellulosic surface to form thereon an opaque, scribable coating, comprising the following substances in the following proportions:

Carbon black	g.	25
Mixture of alcohol and ether (containing ½ to ⅓ of alcohol by volume)	cc.	550
Acetone	g.	6
Flame inhibiting plasticizer	g.	1
Celluloid	g.	3

2,662,829

LIQUID SETTLING OF FLUORESCENT SCREENS

Paul W. Krause, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York

Application August 28, 1950, Serial No. 181,799

7 Claims. (Cl. 117—33.5)



1. The method of liquid settling a fluorescent screen on the face plate of a cathode ray tube which comprises supporting the tube with the face plate thereof downward, introducing a substantial quantity of liquid into the tube including a silicate sol and a powdered phosphor suspension, said liquid having a temperature not higher than the temperature of the room in which settling is carried out, subjecting the face plate of the tube to infra red heating during settling of the phosphor from the suspension to raise the temperature thereof substantially above the temperature of the room in which the settling is carried out to assist in the distribution of the phosphor and accelerate the binding thereof to the face plate, and removing the residual liquid.

2,662,830

SETTLING OF FLUORESCENT SCREENS

Arthur John Halstead Darlaston, Hertford, England, assignor to General Electric Company, a corporation of New York

No Drawing. Application May 27, 1952, Serial No. 290,345

Claims priority, application Great Britain June 18, 1951

2 Claims. (Cl. 117—33.5)

1. The process of settling a phosphor coating onto the face of a cathode ray tube which comprises covering the face of said tube with a cushioning layer comprising a dilute solution of a soluble barium salt selected from the group consisting of barium nitrate and barium acetate, said solution containing from about 0.4 to 0.6 gram of said barium salt per liter of solution and thereafter adding to said cushioning layer a suspension of a phosphor in a potassium silicate solution containing a small amount of calcium metaborate, the amount of calcium metaborate in said silicate solution being such that the concentration thereof in the total settling medium including the silicate solution and the cushioning layer is from about 0.04 to 0.06 gram per liter.

2,662,831

METHOD OF BONDING COPPER TO ALUMINUM OR ALUMINUM ALLOYS

Carl R. Culverhouse, Jr., Birmingham, Ala., assignor to Anderson Brass Works, a corporation of Alabama

No Drawing. Application July 19, 1950, Serial No. 174,796

10 Claims. (Cl. 117—50)

10. The method of firmly bonding a coating of copper directly to aluminum or aluminum alloys comprising degreasing and cleaning the aluminum to be coated, immersing the aluminum thus degreased and cleaned in an aqueous solution of an alkali zincate, thereby depositing zinc on the aluminum, and chemically replacing the zinc with copper by immersing the zinc-coated aluminum in an aqueous acid solution of copper fluoborate.

2,662,832

PROCESS OF PRODUCING AN ELECTROPHOTOGRAPHIC PLATE

Arthur E. Middleton and Otavio J. Mengali, Columbus, Ohio, assignors, by mesne assignments, to The Haloid Company, Rochester, N. Y., a corporation of New York

No Drawing. Application April 8, 1950, Serial No. 154,879

8 Claims. (Cl. 117—64)

1. The method of producing an electrophotographic element having a vitreous photoconductive insulating film containing selenium, which comprises pressing onto a conductive base a heat-plasticized composition containing 0.1 to 10 percent by weight of sulfur as an inhibitor the amount of inhibitor thus being sufficient to prevent formation of hexagonal selenium, and the balance selenium to form a coating on said base and finally removing the outer surface layer of said coating.

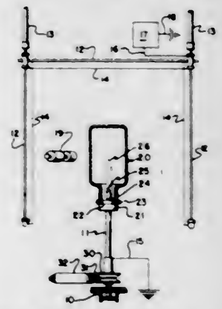
2,662,833

ELECTROSTATIC COATING METHOD AND APPARATUS

Richard E. Helmuth, Carmel, Ind., assignor to Ransburg Electro-Coating Corp., Indianapolis, Ind., a corporation of Indiana

Application June 16, 1948, Serial No. 33,371

6 Claims. (Cl. 117—93)



3. A method of coating an exterior surface of a hollow article of non-conductive material

which comprises the steps of creating in spaced relation from and substantially within the boundaries of the interior surface of said article a localized zone of corona discharge of predetermined polarity to establish internally of the article and substantially throughout its confines a cloud of charged atmospheric particles, simultaneously creating in spaced relation from the exterior surface of the article an ionizing zone of corona discharge of opposite polarity to that of the atmospheric particles within said article, introducing a gaseous dispersion of particled coating material into the ionizing zone exterior of said article to form a cloud of coating material particles charged oppositely to the internal atmospheric particles, and establishing across the nonconducting walls of the article an electric field whereby the internal atmospheric particles will be attracted to the internal surfaces of the wall and the external coating material particles will be attracted to the external surfaces of the wall.

2,662,834

FLAMEPROOFING PROCESS

Walter D. Paist, Berkley Heights, and Norman Van Gorder, Scotch Plains, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application August 22, 1951, Serial No. 243,166

1 Claim. (Cl. 117—102)

Process for flameproofing cellulose acetate textile materials which comprises impregnating the said materials with tri-(2,3-dibromopropyl) phosphate dissolved in a mixture of ethylene dichloride as swelling agent and toluene as solvent, the amount of tri -(2,3-dibromopropyl) phosphate added to said textile materials being about 15 to 50% by weight, based on the weight of said textile materials drying the treated materials and slightly rinsing the said textile materials with a solvent for the tri-(2,3-dibromopropyl) phosphate which is not a solvent for the cellulose acetate, to improve the hand of the flameproofed textile materials while substantially retaining their flameproof properties.

2,662,835

CHROMIUM COORDINATION COMPLEXES OF SATURATED PERFLUORO-MONOCARBOXYLIC ACIDS AND ARTICLES COATED THEREWITH

Thomas S. Reid, New Canada Township, Ramsey County, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application April 6, 1951, Serial No. 219,749

4 Claims. (Cl. 117—121)

1. Chromium coordination complexes of the class consisting of: (A) complexes formed by reacting chromyl chloride with saturated perfluoromonocarboxylic acids having from 4 to 10 carbon atoms in the molecule, in an inert anhydrous solvent vehicle and in the presence of a reducing agent, and (B) the hydrolyzed and ammoniated derivatives thereof; these chromium complexes being solids which are slightly soluble in water and are highly soluble in acetone and alcohols.

3. An article having a hydrophilic type surface upon which is tightly bonded a thin water-insoluble coating film formed from a complex defined in claim 1.

2,662,836

PREPARING METAL SURFACES FOR DRAWING OPERATIONS

Harley A. Montgomery, Highland Park, and Wesley J. Wojtowicz, Detroit, Mich.; said Wojtowicz assignor to The H. A. Montgomery Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application January 6, 1950, Serial No. 137,282

15 Claims. (Cl. 117—167)

1. The process of preparing ferrous metals for drawing operations when said metals have been previously treated to produce thereon relatively porous integrally formed surfaces of a crystalline ferrous metal complex, said process comprising applying to said surfaces a drawing composition consisting essentially of a mixture of water-soluble alkali metal soap and water-insoluble alcohol, said soap comprising by weight from about 50% to about 75% of said mixture and at least the major proportion of said soap being soap of fatty acids having at least 10 carbon atoms, and said alcohol comprising from about 50% to about 25% of said mixture by weight and having a degree of hydrophobicity at least as great as a 10 carbon atom monohydric aliphatic alcohol, said mixture being applied in the form of an emulsion in water.

2,662,837

COMPOSITION AND METHOD FOR REMOVING HARDENED SILICONE RESIN GLAZES FROM METAL SURFACES

Ira J. Duncan, Detroit, Mich., assignor to Detrex Corporation, Detroit, Mich., a corporation of Michigan

No Drawing. Application February 19, 1949, Serial No. 77,441

9 Claims. (Cl. 134—29)

6. The method of removing hardened silicone resin glaze from a metal base having a surface containing tin without causing appreciable tin attack, comprising contacting the resin with a composition consisting essentially by weight of about .02–5% sodium hydroxide and 1–97% perchlorethylene in the balance of ethylene glycol monomethyl ether, maintaining said composition at about 55–75° C. for a period sufficient to modify the hardened silicone resin glaze, removing the base and glaze from said composition, contacting the modified resin with water, and removing the resulting material from said base.

2,662,838

COMPOSITION FOR PREPARING SOLDERED METAL SURFACES FOR PAINTING

Gerald E. Oven, Detroit, and William Suter, Melvindale, Mich., assignors to Kaiser-Frazer Corporation, Willow Run, Mich., a corporation of Nevada

No Drawing. Application August 9, 1950, Serial No. 178,561

3 Claims. (Cl. 148—6.16)

2. A composition for treating solder metal surfaces that have been prepared for such treatment by application thereto of an alcohol solution of phosphoric acid consisting of about 69% by weight of metallic zinc dust, about 13% by weight of pigment zinc chromate, and about 18% of an isopropyl alcohol.

3. An article including a solder-metal area having surface pits or cavities filled with a reaction product which results when an alcohol solution of phosphoric acid is first reacted with a solder metal and the ensuing product is reacted with a paste of about 84% metallic zinc dust and about 16% pigment zinc chromate, said fillings being bonded to the wall surfaces of said pits by reaction of the phosphoric acid portion of said reaction product with the solder metal forming the wall of the cavity.

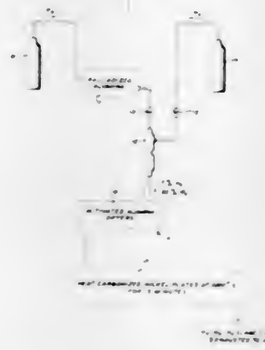
2,662,839

METHOD OF DESULFURIZING CARBON-COATED METALS

Edward J. Becker, South Plainfield, and Frank J. Biondi, Livingston, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 11, 1950, Serial No. 155,188

6 Claims. (Cl. 148—13.1)



2. The method of desulphurizing a carbon coated electrode which comprises introducing the electrode to the heating zone of a furnace, flowing a mixture of from 5 to 10 per cent hydrogen and the remainder an inert gas through the furnace, said gas being inert to forming compounds with carbon and sulphur, heating said electrode to a temperature in the order of 1000° C. for a period of from ten to thirty minutes to completely remove the sulphur present as contaminants in the coating with little or no altering of the amount of carbon in the coating, moving said electrode to the cooling zone of said furnace, and removing said electrode from said cooling zone when reduced to room temperature.

2,662,840

SOLDER FLUX LIFE EXTENDER

William C. Shilling, Arlington, and George W. Wright, Wellesley Hills, Mass., assignors to Dewey and Almy Chemical Company, Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application February 19, 1953, Serial No. 337,872

8 Claims. (Cl. 148—23)

4. A solder flux of the zinc-ammonium chloride type especially adapted for use on a roll solder bath, said flux containing a flux life extender consisting of a mass of individual particles of an inert, low-density, heat expanded siliceous material in the proportion of at least 1½% by weight of the fusible flux ingredients and not in excess of that amount at which a film of flux remains visible on the surface of the individual particles of the mass.

2,662,841

WATER-INSOLUBLE SALTS OF DITHIOCARBAMIC ACID MADE RAPIDLY WATER DISPERSIBLE AND COMPOSITIONS THEREOF

Elmer A. Fike, Nitro, W. Va., and Harold E. Bruner, Akron, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 28, 1949, Serial No. 73,448

12 Claims. (Cl. 167—22)

1. The method of making a water dispersible concentrate of a water insoluble salt of a dithiocarbamic acid which comprises admixing in aqueous medium an ionizable water soluble salt of a dithiocarbamic acid and an ionizable water soluble salt containing a cation which forms a water insoluble salt of the dithiocarbamic acid in quantity sufficient to precipitate the latter from solution, filtering from solution the said water insoluble salt and then admixing the water wet filter cake of said water insoluble salt with a surface active agent in sufficient quantity to form a free flowing rapidly water dispersible paste.

7. A water dispersible paste concentrate prepared by the method of claim 1.

2,662,842

METHOD OF PRODUCING ALCOHOL

Leo M. Christensen, Lincoln, Nebr.

No Drawing. Application August 7, 1950, Serial No. 178,169

12 Claims. (Cl. 195—15)

1. A method of producing alcohol which comprises degerminating a cereal grain to produce a germ fraction and a degerminated starchy fraction; extracting the germ fraction with a solvent for the germ oil, adding from about 40% to about 80% of the extracted germ fraction to the degerminated fraction, cooking the combined fractions at an acid reaction, neutralizing the cooked material, cooling to optimum saccharification temperature and saccharifying the cooked mash with a suitable amylase-containing material, cooling the saccharified mash to fermenting temperature, fermenting the mash and recovering the alcohol therefrom.

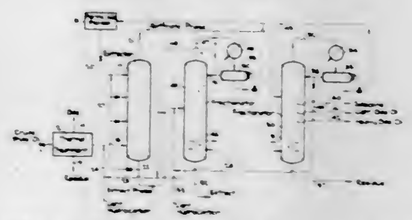
2,662,843

SHALE OIL REFINING

Robert C. Castner and Raymond C. Archibald, Berkeley, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application May 25, 1951, Serial No. 228,302

4 Claims. (Cl. 196—14.3)



1. The method for the production of a shale oil product having improved catalytic cracking properties from shale oil, which method comprises: (1) intimately contacting the shale oil with from about two to about ten stoichiometrical proportions of formic acid for each atomic proportion of nitrogen present in said shale oil

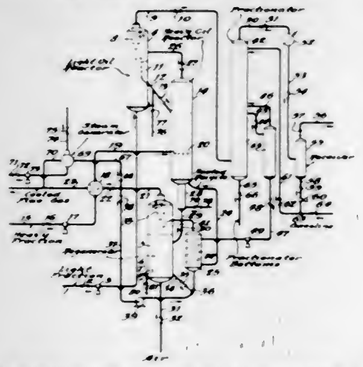
to reduce the nitrogen content of resulting raffinate oil phase to a value of from about 0.4% to about 0.9% by weight; (2) separating resulting extract and raffinate phases; (3) recovering dissolved formic acid from the separated raffinate phase and returning it for further extraction use; and (4) recovering formic acid from the separated extract phase by distillation in the presence of a light essentially non-aromatic hydrocarbon under conditions to maintain formic acid and formates in the distilling zone at a temperature below about 165° C. and returning the recovered formic acid for further extraction use.

2,662,844

CONVERSION OR CRACKING OF LIGHT AND HEAVY OIL FRACTIONS IN THE PRESENCE OF SUBDIVIDED CONTACT MATERIAL

Frederick W. Leffer, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application January 19, 1950, Serial No. 139,362
16 Claims. (Cl. 196—49)



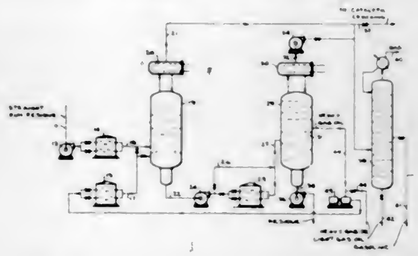
1. A continuous process for separately converting light and heavy hydrocarbon fractions in the presence of subdivided contact material, wherein a single heating and regeneration zone for the combustion of carbonaceous contaminants from said contact material and separate conversion zones are utilized and the subdivided particles are continuously passed from one contacting zone to another, the improvement which comprises, passing the freshly regenerated and heated particles to a first conversion zone and into contact therein with a charge the hydrocarbon content of which consists solely of said light hydrocarbon fraction, separating resulting fluid conversion products from the contacted particles and discharging them from the first conversion zone into a fractionating zone, continuously passing contacted particles upon their separation from said fluid products from the first to a second contacting and conversion zone and therein contacting them first with said heavy hydrocarbon fraction and then countercurrently with a heated lower boiling recycle stream, said recycle stream being heated to a temperature sufficient to maintain said second contacting zone at an average temperature at least equal to that maintained within said first contacting zone, separating resulting fluid conversion products from the solid particles in said second contacting zone and commingling them with the separated fluid products being discharged from said first conversion zone into said fractionating zone, and continuously passing resulting coked and contaminated subdivided particles from said second contacting zone to said regeneration zone.

2,662,845

THERMAL TREATMENT AND SEPARATION PROCESS

Warren C. Simpson, Albany, and William B. Wilson, Concord, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application August 18, 1951, Serial No. 242,522
7 Claims. (Cl. 196—50)



1. The method of thermally treating and separating heavy hydrocarbon oils to produce and recover therefrom oil distillate having improved catalytic cracking characteristics and a residue product in reduced amount which is readily blendable to fuel oil, which method comprises: (1) subjecting the heavy oil to a mild thermal treatment at a temperature of about 370° to 425° C. under conditions of pressure and residence time to effect only a minor thermal conversion of components thereof, (2) simultaneously subjecting a heavy gas oil condensate produced in the process as described hereinafter to a more severe thermal treatment above about 450° C., in the substantial absence of readily cokable substances, to effectively convert heavy oil components thereof to light gas oil components, (3) intimately admixing the two thus-heated oil streams in the weight ratio of from about 0.3 to about 2.7, heavy gas oil to heavy oil, and separating therefrom under reflux conditions an overhead stream containing substantially only light gas oil and lighter components and a heavy residual bottoms product stream, (4) separately subjecting the heavy residual product stream to a separation operation under substantially subatmospheric pressure below about 200 mm. Hg to recover therefrom essentially all of the distillable heavy gas oil components thereof and a residue product in a minor amount and which is readily blendable to a residual fuel oil, and (5) recycling the recovered heavy gas oil for thermal treatment in accordance with step 2 and subsequent utility thereof as described hereinbefore.

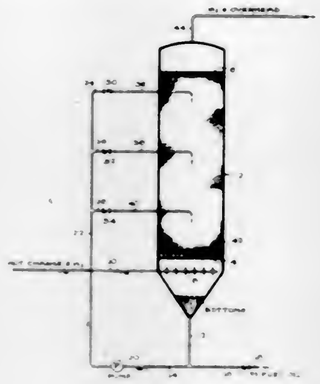
2,662,846

HYDROGEN TREATMENT OF HEAVY HYDROCARBONS

Charles W. Montgomery and William A. Horne, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application December 30, 1950, Serial No. 203,618
5 Claims. (Cl. 196—53)

1. A process for destructively hydrogenating a high boiling hydrocarbon charge which contains residual components, which comprises heating said charge so as to vaporize a portion of it, passing the resultant vapor in conjunction with hydrogen-containing gas upwardly through a fixed hydrogenating catalyst bed, at a pressure of between about 100 to 2,000 p. s. i., introducing the liquid portion of the high boiling hydrocarbon into said hydrogenating catalyst bed, preventing formation of a body level of liquid in contact with the hydrogenating catalyst bed, removing reaction products from the upper portion of the catalyst bed, collecting liquid draining from said catalyst



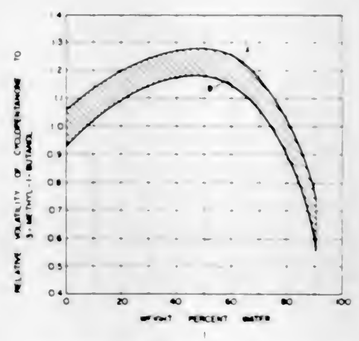
bed at a point below the catalyst bed, withdrawing a portion of this collected liquid, and introducing the remaining portion of said collected liquid into the same catalyst bed at a point above that at which the vapor portion of the charge initially contacts the catalyst bed.

2,662,847

METHOD FOR DISTILLATION OF CYCLOPENTANONE FROM 2-METHYL-1-BUTANOL AND 3-METHYL-1-BUTANOL

Theodore Q. Eliot, Tulsa, Okla., and Joe C. Weaver, Jr., Brownsville, Tex., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application April 23, 1952, Serial No. 283,948
9 Claims. (Cl. 202—39.5)



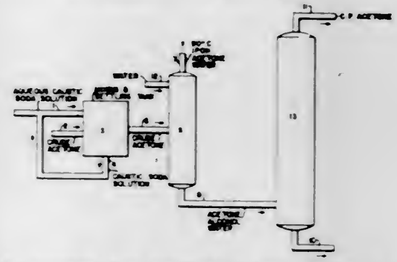
1. In a process for the recovery of cyclopentanone from a mixture of at least one of the alcohols 2-methyl-1-butanol and 3-methyl-1-butanol, the steps which comprise subjecting said mixture to fractionation in a distillation zone, maintaining in said zone a concentration of water ranging from about 20 to about 70 weight per cent, and recovering a bottoms containing at least one of the alcohols 2-methyl-1-butanol and 3-methyl-1-butanol substantially free from cyclopentanone.

2,662,848

EXTRACTIVE DISTILLATION PURIFICATION OF ACETONE

William G. Emerson, Jr., Somerville, and Joseph R. Quelly, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 8, 1952, Serial No. 308,484
4 Claims. (Cl. 202—39.5)



1. A process for purifying acetone in a crude feed containing predominantly acetone and a minor but significant proportion of carbonyl impurities including mesityl oxide and aldehydes, said feed being difficult to purify by conventional distillation, which comprises the steps of treating the crude feed with an aqueous caustic solution containing about 30–45 weight per cent caustic for a time of fifteen minutes to three hours with an aqueous caustic to feed ratio of 2/1 to 1/10; feeding the caustic treated mixture to a fractional distillation zone at an intermediate point thereof; continuously adding water to the fractional distillation zone substantially above the feed point of the mixture to maintain a volumetric solvent to feed ratio in the range of 2–8/1; distilling from said distillation zone a vaporous mixture ascending countercurrent to the liquid water internal reflux; removing from the distillation zone a distillate comprising a predominant proportion of water containing substantially all the carbonyl impurities and some acetone, and withdrawing as a bottoms fraction from the fractional distillation zone acetone and water, free of carbonyl impurities.

2,662,849

PROCESS FOR TREATING TALL OIL

Emmett P. Glynn, Chicago, Ill., and Burt F. Hofferth, Ames, Iowa, assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application June 7, 1946, Serial No. 675,303
4 Claims. (Cl. 202—71)

1. In a process for treating tall oil, the steps of fractionally distilling tall oil, withdrawing an overhead fraction consisting mainly of low-boiling unsaponifiable matter and palmitic acid, taking off a second fraction consisting mainly of oleic acid and linoleic acid and fractionally crystallizing the second fraction to obtain oleic acid in the solid phase.

2,662,850

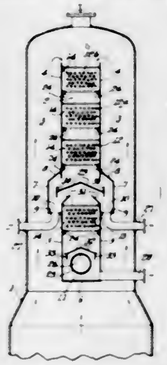
CONDENSING SYSTEM FOR DISTILLATION COLUMN

Wheaton W. Kraft, Scarsdale, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application September 7, 1950, Serial No. 183,559
3 Claims. (Cl. 202—158)

1. In a distillation column, condensing apparatus comprising a chamber within an upper portion of the column and having opposite side

walls inwardly spaced from opposite sides of the column to afford free passages for ascending vapors at opposite sides of the chamber, said chamber being open at the upper portion only thereof for admission of vapors from both of said passages, a vapor offtake conduit leading from a lower portion of the chamber to the exterior of the column, first-stage condenser tubing within the chamber and in the path of descent of the admitted vapors, means to circulate cooling fluid through said tubing, means forming a first-stage condensate-collecting well within the chamber, a drain conduit leading from said well to the exterior of the chamber, second-stage condenser tubing within the chamber and spaced below said first-stage tubing, means to circulate a cooling fluid through said second-

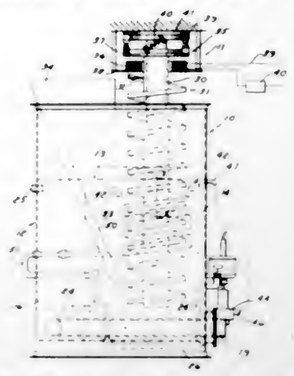


stage tubing, a condensate-collecting tray within the chamber underlying the first-stage tubing and overlying the second-stage tubing and above the level of said well, to catch the condensate falling from the first-stage tubing and discharge it to said well, there being space within the chamber for flow of vapor past said tray to the second-stage tubing, curbing on the tray to divert said discharge of condensate from the tray out of the path of the vapors flowing from the first-stage tubing to the second-stage tubing, baffle means in said path of the vapors to remove entrained first-stage condensate therefrom and divert it to said well, the chamber having within the lower portion thereof a well to collect the condensate falling from the second-stage tubing, and a condensate drain leading from said second-stage well to the exterior of the chamber.

2,662,851
DEGREASING APPARATUS

Harry H. Jones and Robert C. White, Detroit, Mich., assignors to Harry H. Jones and Robert C. White, copartners, doing business as Manufacturers Processing Co., Ferndale, Mich.
Application October 15, 1951, Serial No. 251,334
11 Claims. (Cl. 202—170)

1. Apparatus for treating work with a volatile solvent, comprising a chamber adapted to contain a solvent vapor and open at the top, a spiral conveyor extending into the chamber through the open top of the latter to a position below the vapor level in the chamber and having a vertical support, a work carrying ramp mounted on the support and extending helically around the support from a position below the vapor level to a position above the chamber, means for depositing work on the ramp below the vapor level, means on the support above the open top of the chamber for moving the ramp vertically with a vibrating motion, and means also on the vertical support above the open top of the chamber for oscillating the ramp about its vertical



axis during vibration of said ramp to advance the articles along the ramp.

2,662,852
PREPARATION OF TWO-SIDED MOSAIC SCREEN

Gordon K. Teal, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 29, 1948, Serial No. 67,917
2 Claims. (Cl. 204—3)

1. The method of forming a two-sided mosaic screen or target comprising the steps of placing a large number of tiny hard particles on a metal layer, pressing the particles into and through said metal layer thereby forming a large number of apertures in the layer, applying a metal coating to said layer leaving a thickened apertured screen which has sharp metallic projections therein, electrolytically polishing the thickened screen to reduce said projections, electroplating said layer to increase the thickness thereof, insulating the inner surfaces of the apertures in the metal layer and forming metallic buttons in said insulated apertures.

2,662,853
ELECTRODEPOSITION OF NICKEL

David G. Ellis, Cleveland, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application November 7, 1950, Serial No. 194,565
12 Claims. (Cl. 204—49)

1. A method for electrodepositing nickel in the form of a deposit which is bright as taken from the plating solution without further treatment and which comprises electrolyzing an aqueous, acid solution of a nickel electrolyte of the class consisting of nickel sulfate, nickel chloride, and mixtures of nickel sulfate with nickel chloride, said solution also containing cooperating addition agents capable of imparting brightness to the deposit, one of said addition agents being a polyalkylene amine of the class consisting of unsubstituted amines of the general form

$$H_2N[(CH_2)_mNH]_n(CH_2)_mNH_2$$

where m is an integer from 2 to 4 inclusive and n is an integer greater than 2, and polyalkylene amines which are the condensation products produced by reacting a polyalkylene amine of said general form with a material of the class

consisting of epichlorhydrin, acrylonitrile, methyl sulfate, chloracetic acid, epichlorhydrin with phenol, dimethyl chloracetal, benzene sulfonyl chloride, and styrene oxide, soluble in said solution to the extent of at least 0.0001 gram per liter, and having a molecular weight from 100 to 1800, and the other of said addition agents being an organic compound of the class consisting of benzene mono-sulfonic acid, benzene disulfonic acids, monochlor benzene monosulfonic acids, benzene monosulfonamide, saccharine, dichloro benzene disulfonic acids, 2,5-dibromo benzene sulfonic acid, toluene sulfonic acids, benzaldehyde sulfonic acids, diphenyl sulfonic acids, benzene sulfonyl chloride, para chloro benzene sulfonamide, xylene sulfonamides, para toluene sulfonamide, thiophene sulfonic acids, diphenyl sulfone, naphthalene-1,5-disulphonic acid, sulfonated naphthalene, alpha naphthalene monosulfonic acid, beta naphthalene monosulfonic acid, o-toluene sulfonamide, chloro naphthalene disulfonates and the sodium, potassium, nickel, and cobalt salts thereof, said first mentioned addition agent being present in concentration from 0.0001 to 0.1 gram per liter, and said second mentioned addition agent being present in concentration from 0.2 to 15 grams per liter.

2,662,854
PHOTOCHEMICAL PREPARATION OF 17,20-HYDROXY-KETONES OF THE PREGNANE SERIES

Karl Miescher, Riehen, and Julius Schmidlin, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.
No Drawing. Application September 21, 1951, Serial No. 247,766
Claims priority, application Switzerland October 12, 1950
5 Claims. (Cl. 204—158)

1. A process for the preparation of a 17,20-hydroxy-ketone of the pregnane series, which comprises reacting a pregnene having the grouping =CH—CH_2X in the 17-position, X representing a member selected from the group consisting of free, esterified and etherified hydroxyl, with osmium tetroxide and with a member selected from the group consisting of hydrogen peroxide, an alkyl peroxide and a peracid, the reactants being exposed to light during the reaction, and isolating the resultant 17,20-hydroxy-ketone from the reaction mixture.

2,662,855
MICROBIOCIDAL TREATMENT OF WATER WITH BROMINE CHLORIDE

Jonas Kamlet, New York, N. Y.
No Drawing. Application September 7, 1950, Serial No. 183,680
3 Claims. (Cl. 210—28)

1. A process for the sterilization and disinfection of water which comprises adding thereto from 0.02 to 10.00 parts per million of a member of the group consisting of (*a*) bromine chloride and (*b*) bromine and chlorine in substantially equimolecular proportions.

2,662,856
MINERAL OIL COMPOSITIONS

John W. Bishop, Plainfield, N. J., assignor to Tide Water Associated Oil Company, New York, N. Y., a corporation of Delaware
No Drawing. Application January 11, 1951, Serial No. 205,607
11 Claims. (Cl. 252—32.7)

1. A composition comprising a mineral oil in major amount based on the weight of the composition and a combination of ingredients as defined hereinafter, one of said ingredients being an oil-soluble oil deterioration-inhibiting phosphorus- and sulfur-containing product of reaction between a terpene and a phosphorus sulfide and present in said composition in a small amount sufficient to inhibit deterioration of said oil and the other ingredient being an oil-soluble phosphorus- and sulfur-containing metal salt of a product of reaction between a phosphorus sulfide and a hydrocarbon, said salt being characterized in that its metal component is an alkaline earth metal effective to provide a salt that inhibits the tendency of the aforesaid terpene reaction product to evolve H_2S and said salt being present in said composition in a small amount sufficient to provide in combination with said deterioration-inhibitor in said oil a composition inhibited against substantial evolution of hydrogen sulfide.

2,662,857
PICKLING BATH AGENT

James W. Carroll, Philadelphia, Pa., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application March 26, 1948, Serial No. 17,369
8 Claims. (Cl. 252—147)

1. A method of reducing the delay in foam formation upon addition of a foaming agent to a non-oxidizing mineral acid pickling bath that contains at least .003% of a foam-delaying organic colloid selected from the group consisting of gelatin, starch and gluten, based on the weight of the bath, that comprises incorporating in the bath at least .00025%, based on the weight of the pickling bath, of a cationic wetting agent containing, in the cation, from one to four basic nitrogen atoms, from one to two aliphatic groups containing from 10 to 18 carbon atoms, and from one to four hydroxy-ethyl groups, said agent being at least water-dispersible at a concentration in water of 0.1% by weight.

2,662,858
STABILIZING HYPOCHLORITE SOLUTIONS

Richard C. Brandon, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 10, 1949, Serial No. 126,705
1 Claim. (Cl. 252—187)

A stabilized aqueous hypochlorite solution consisting of 100–250 grams per liter of sodium hydroxide, 2–12 grams per liter of sodium hypochlorite, and as a stabilizing agent 0.01 to 0.1% potassium dichromate based on the hypochlorite.

2,662,859
COMPOSITIONS AND PROCESS FOR EMULSION BREAKING

Willard H. Kirkpatrick, Sugar Land, Tex., assignor to Visco Products Company, Houston, Tex., a corporation of Delaware
No Drawing. Application June 15, 1949, Serial No. 99,334
11 Claims. (Cl. 252—331)

1. A process of breaking water-in-oil emulsions which comprises treating such emulsions with a diether of a polyoxyalkylene aliphatic diol in which the major proportion of the average molecular weight is attributable to oxyalkylene groups from the group consisting of oxypropylene

groups and mixed oxyethylene and oxypropylene groups having a weight ratio of oxyethylene to oxypropylene not exceeding 4:1 and the average molecular weight is at least 1000 where the oxyalkylene groups are both oxyethylene and oxypropylene and at least 1350 where the oxyalkylene groups are solely oxypropylene groups.

2,662,860

METHOD FOR THE PRODUCTION OF MOLDED ALUMINA CARRIER AND CATALYST

Willem Frederik Engel and Pieter Krijger, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application November 28, 1950, Serial No. 198,021

Claims priority, application Netherlands November 30, 1949

5 Claims. (Cl. 252—442)

1. Method for preparing aluminum oxide molded particles particularly suited for use in catalysis which comprises in combination the steps of grinding alumina trihydrate to a powder of grain size less than 0.5 mm. such that at least 5% by weight is of particle size larger than 210 microns and from 30 to 60% by weight is smaller than 74 microns, mixing the resultant powder of alumina trihydrate with between 1% and about 6% of a water soluble salt of aluminum and a strong acid and sufficient water between 12 and 20% by weight based on the hydrated alumina to form a paste, extruding said paste into formed pellets, drying said pellets and calcining them at a temperature of 200–300° C. until bound hydrate water substantially ceases to be set free and then at a temperature between 400 and 800° C. to obtain gamma alumina.

2,662,861

PLATINUM AND PALLADIUM CATALYSTS

Earl W. Riblett, Tenafly, William P. Burton, Little Silver, and Philip Andrew Lefrancois, Jersey City, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application August 15, 1951, Serial No. 242,031

17 Claims. (Cl. 252—455)

1. A composition of matter which comprises a product obtained by decomposing a compound of a metal selected from the group consisting of platinum and palladium on a supporting material in the presence of an activating agent selected from the group consisting of mercury, zinc, cadmium and their compounds by calcination at a temperature of about 400° to about 1500° F. for a period sufficient to convert the said metal compound to a metallic residue.

2,662,862

DRYING RESINS FROM OIL-MODIFIED ALKYDS AND LIQUID POLYBUTADIENE

Willie W. Crouch, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application April 28, 1950, Serial No. 158,923

10 Claims. (Cl. 260—22)

1. A process for the production of an improved drying alkyd resin, comprising admixing a drying glyceride oil, modified alkyd resin with from 5 to 60 per cent of its weight of a liquid polymer comprising a polybutadiene free from solid polymers, having a viscosity at 100° F. within the limits of 100 to 10,000 Saybolt Furol seconds, a molecular weight within the limits of 500 to 4,000, and a specific gravity, 60/60° F., within the limits of 0.85 to 0.95, heating the resulting admixture of polymer and drying alkyd resin at a temperature within the limits of 450 and 600° F., whereby said polymer reacts with said alkyd resin to form said improved alkyd drying resin; and recovering said improved alkyd drying resin.

2,662,863

EMULSION POLYMERIZATION OF VINYL ACETATE

John E. Bristol, Niagara Falls, Warren A. Harrington, Wilson, and Norris Turnbull, Grand Island, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 14, 1950, Serial No. 200,871

6 Claims. (Cl. 260—27)

1. The process which comprises dispersing vinyl acetate monomer in an aqueous 2 to 10% by weight solution of a hydrophilic dispersing agent which is a polyhydroxy, polymeric, film-forming substance substantially insoluble in water at temperatures below 50° C. but soluble in water at a temperature not lower than 50° C. to form a dispersion containing not more than 5% by weight of said monomer, subjecting said dispersion to polymerization in the presence of a peroxygen type catalyst, while dispersing therein further quantities of said monomer so as to maintain a monomer concentration not greater than 5% by weight when the polymer concentration is not over 20% by weight and not greater than 3% by weight when the polymer content has exceeded 20% by weight, continuing as above until the polymer content has reached 20 to 60% by weight, controlling the pH of the polymerization reaction mixture so that it is initially not less than 4 and finally not greater than 6 and adding to the reaction mixture before polymerization is 50% complete a cyclic alcohol selected from the group consisting of the sterols, abietyl alcohol, dehydroabietyl alcohol the hydroabietyl alcohols and the sulfonated hydroabietyl alcohols in amount equal to not less than about 0.1% by weight of the water present.

2,662,864

RUBBER COMPOSITIONS WITH OXIDIZED MICROCRYSTALLINE WAX

George G. Rumberger, Neenah, Wis., assignor to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin

No Drawing. Application November 2, 1951, Serial No. 254,638

8 Claims. (Cl. 260—28.5)

1. An improved synthetic rubber comprising a butadiene polymer and about 1% to about 10%, based on the weight of the rubber, of oxidized microcrystalline wax having a peroxide number in the range of about 150 to about 330 and an acid number less than about 50.

2,662,865

COATING COMPOSITION COMPRISING A POLYAMIDE AND A PHENOL-FORMALDEHYDE RESIN DISSOLVED IN AN AQUEOUS ALCOHOL SOLUTION

David N. Beauchamp, Whittier, Calif., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application May 31, 1950, Serial No. 165,373

4 Claims. (Cl. 260—29.3)

2. A composition of matter suitable for use in the formulation of clear and pigmented coating compositions comprising a mixture of (*a*) a polymeric amide solution consisting essentially of a mixture of (1) a solution of a polymeric amide of an alkylene diamine of from 2 to 6 carbon atoms and a polybasic saturated aliphatic acid of from 2 to 8 carbon atoms in an aqueous solution of a water soluble aliphatic alcohol and containing from 10% to 20% solids and (2) a stabilizer solution amounting to from 5% to 30% by weight of the polymeric amide solution, said stabilizer being a normally liquid halogenated saturated aliphatic hydrocarbon of from 1 to 7 carbon atoms and containing a plurality of halogen atoms; and (*b*) a 40%—60% aqueous solution of a partially cured, acid curing phenol aldehyde resin, said components (*a*) and (*b*) being in intermixture in a weight ratio of from 40:60 to 60:40, respectively, calculated as the solutions.

2,662,866

EMULSION POLYMERIZATION OF VINYL ACETATE

John E. Bristol, Niagara Falls, and Norris Turnbull, Grand Island, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 14, 1950, Serial No. 200,872

4 Claims. (Cl. 260—29.6)

1. The process which comprises dispersing vinyl acetate monomer in a 2 to 10% by weight aqueous solution of a hydrophilic dispersing agent which is a polyhydroxy, polymeric, film-forming substance substantially insoluble in water at temperatures below 50° C. but soluble in water at a temperature not lower than 50° C. to form a dispersion containing not more than 5% by weight of said monomer, subjecting said dispersion to polymerization in the presence of a peroxygen type catalyst, while dispersing therein further quantities of said monomer so as to maintain a monomer concentration not greater than 5% by weight when the polymer concentration is not over 20% by weight and not greater than 3% by weight when the polymer content has exceeded 20% by weight, continuing as above until the polymer content has reached 20 to 40% by weight, controlling the pH of the polymerization reaction mixture so that it is initially not less than 4 and finally not greater than 6 and adding to the reaction mixture before polymerization is 50% complete an alcohol selected from the group consisting of the primary aliphatic saturated and monoolefinic alcohols having at least one chain of not less than 8 carbon atoms and a total of 8 to 20 carbon atoms, in amount equal to 0.1 to 5% by weight of the total vinyl acetate polymerized, and a hydrocarbon selected from the group consisting of (1) saturated aliphatic hydrocarbons having per molecule 6 to 20 carbon atoms and at least one unbranched chain of at least 6 carbon atoms (2) benzene and (3) aromatic hydrocarbons having the formula



where R represents an alkyl radical having 1 to 10 carbon atoms and *n* is an integer, from 1 to 3, the amount of said hydrocarbons being equal to 0.1 to 5 times the weight of said alcohol.

2,662,867

METHOD OF STABILIZING AQUEOUS DISPERSIONS OF HALOETHYLENE POLYMERS

Joseph Bruce Hoertz, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application March 29, 1951, Serial No. 218,259

6 Claims. (Cl. 260—29.6)

1. The method of stabilizing an aqueous dispersion of a haloethylene polymer which comprises adding to said dispersion a polymerization terminator selected from the class consisting of phenols, quinones and nitro-aromatic compounds, removing substantially all of the residual monomeric material, and maintaining the pH of the dispersion in the range of 2.0 to 7.0.

2,662,868

PREPARATION OF SYNTHETIC RESINS FROM DICYANODIAMIDE

Franz Kaess, Trostberg, and Ernst Dochlemann, Thalham-Altenmarkt, Germany, assignors to Sueddeutsche Kalkstickstoff-Werke A. G., Trostberg, Germany, a firm

No Drawing. Application December 16, 1950, Serial No. 201,235

Claims priority, application Germany February 3, 1950

5 Claims. (Cl. 260—45.2)

5. A method of preparing synthetic resins comprising mixing dicyanodiamide with a melting point depressant selected from the group consisting of ammonium salts, dicyano diamidine and salts thereof, and glycol, in an amount of about 10 to 20 per cent by weight of the dicyanodiamide, passing ammonia gas into the mixture, heating the mixture at about 170 to 190° C., and reacting the obtained product containing the melting point depressant with formaldehyde.

2,662,869

VULCANIZED COMPOSITION FORMED FROM SULFUR, RUBBER, AND AN ALKENYL PHENOL FOR JOINING METAL, WOOD, GLASS, AND THERMOSETTING RESINS

Herman S. Bloch, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application August 2, 1951, Serial No. 240,034

6 Claims. (Cl. 260—45.5)

1. A bonding composition comprising sulfur, an unsaturated elastomer selected from the group consisting of natural rubber and a rubbery copolymer of butadiene and styrene, and a condensation product of phenol with a conjugated diolefin hydrocarbon selected from the group consisting of butadiene and isoprene.

2,662,870

REACTION PRODUCTS OF POLYEPOXIDES WITH STYRENE-ACRYLIC ACID-VINYL PYRIDINE COPOLYMERS

Owen Clement Wentworth Allenby, McMasterville, Quebec, Canada, assignor to Canadian Industries Limited, Montreal, Quebec, Canada, a corporation of Canada

No Drawing. Application June 21, 1952, Serial No. 294,922
10 Claims. (Cl. 260—45.5)

8. A coating composition adapted for being hardened into an infusible, solvent insoluble, grease-resistant film on baking at a temperature of from 100° to 150° C. after application, comprising essentially a linear thermoplastic copolymer of from 0.05 to 1.0 part of vinyl pyridine and 100 parts of a mixture comprising more than 50 parts of styrene and at least 5 parts of an acid selected from the group consisting of acrylic acid and methacrylic acid and at least 15 parts of a lower alkyl ester of acrylic acid, in admixture with a polyepoxide selected from the group consisting of diphenylolpropane diglycidyl ether and low molecular weight polymeric condensation products of diphenylolpropane with epichlorohydrin, said condensation products having an epoxide content of at least 7.5% by weight and a melting point not exceeding 75° C. and a Gardner viscosity not exceeding 1.65 poises as 40% solutions in ethylene glycol monobutyl ether, the proportion of polyepoxide to copolymer being such that one epoxide group is present for each free carboxylic acid group of the copolymer.

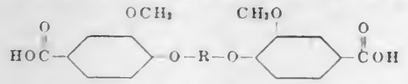
2,662,871

POLYESTERS MADE FROM DIBASIC ACIDS DERIVED FROM VANILLIN

Louis H. Bock, Shelton, Wash., assignor to Rayonier Incorporated, Shelton, Wash., a corporation of Delaware

No Drawing. Application November 28, 1950, Serial No. 198,048
2 Claims. (Cl. 260—47)

1. Linear polyesters obtained by the condensation of a dihydric alcohol with the dibasic acids:



in which R is a divalent aliphatic member of the group consisting of $-(CH_2)_n-$ where n is 2 to 6, and $-CH_2CH_2OCH_2CH_2-$.

2,662,872

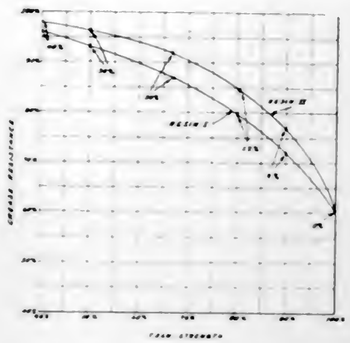
MODIFIED METHYLOL MELAMINES AND PROCESS OF MAKING AND USING SAME

Dmitry M. Gagarine, William B. Smith, Jr., and Myrtle J. Spangler, Danville, Va., assignors to Dan River Mills, Incorporated, a corporation of Virginia

Application October 2, 1950, Serial No. 187,854
10 Claims. (Cl. 260—67.6)

5. A water-soluble, thermosetting, synthetic resin forming material, consisting of the reaction product of 1 mol of hexamethylol, methylated melamine and 3 to 4 mols of urea, said resin forming material being adapted to be applied to textile fabrics for increasing the crease-resistance thereof while retaining the necessary tear strength of the fabric.

6. A non-free urea containing water-soluble, thermosetting, monomeric, synthetic resin forming material, consisting of the reaction product of 1 mol of dimethyl ether of trimethylol melamine, 3 mols of formaldehyde, and 3 to 4 mols of urea, said resin forming material being adapted to be



applied to textile fabrics for increasing the crease-resistance thereof while retaining the necessary tear strength of the fabric.

2,662,873

MELAMINE CONDENSATION PRODUCTS AND METHOD OF PREPARING THE SAME

Franz Kaess, Trostberg, Ernst Doehlemann, Thalham, near Altenmarkt, and Erwin Vogel, Trostberg, Germany, assignors to Sueddeutsche Kalkstickstoff-Werke A. G., Trostberg, Germany

No Drawing. Application April 5, 1951, Serial No. 219,528
Claims priority, application Germany August 24, 1950
6 Claims. (Cl. 260—67.6)

6. As a new composition of matter, the cross-linked resinous product prepared by the anhydrous condensation of a molten mixture of melamine and an amino-carbinol compound selected from the group consisting of compounds of the formula

$$RO\cdot CH_2\cdot NH\cdot CX\cdot NH_2 \text{ and } (RO\cdot CH_2\cdot NH)_2\cdot CX$$

wherein R is a member of the group consisting of hydrogen, alkyl and oxyalkyl and X is a member of the group consisting of NH, O, S, NCN and $NCONH_2$.

2,662,874

PREPARATION OF PLASTIC CONDENSABLE SYNTHETIC RUBBERS AND SUBSEQUENT ELASTO-CONDENSATION THEREOF

Harold P. Brown, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application November 1, 1950, Serial No. 193,522
14 Claims. (Cl. 260—79.5)

1. The method which comprises reacting 100 parts by weight of a plastic synthetic rubbery material comprising a polymer of an open-chain aliphatic conjugated diene with an amount of a carboxylating agent chemically equivalent to 1 to 3 times the carboxyl content in the presence of 0.5 to 10 parts by weight of a peroxygen compound so as to introduce into said rubbery material from 0.001 to 0.30 chemical equivalents of combined —COOH per 100 parts by weight of rubber, admixing the resultant plastic, carboxyl-containing rubbery material with an amount of a polyvalent metal oxide chemically equivalent to at least one-half said combined —COOH and forming an intimate mixture thereof, and heating the resultant plastic composition at a temperature of from 125 to 400° F. until said plastic composition has been converted to an essentially elastic, polymeric metallo-carboxylate by a salt formation occurring between the metallic cation of said polyvalent metal oxide and the combined carboxyl groups of the plastic rubbery material.

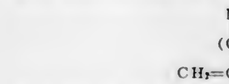
2,662,875

TERPOLYMERS OF ACRYLONITRILE AND ALLYL AMINES

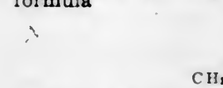
David W. Chaney, Nether Providence Township, Delaware County, Pa., assignor to The Chemstrand Corporation, Decatur, Ala., a corporation of Delaware

No Drawing. Application February 20, 1952, Serial No. 272,718
8 Claims. (Cl. 260—80.5)

8. A terpolymer containing, by weight in the polymer molecule (*a*) at least 50 percent of acrylonitrile; (*b*) at least 1 percent of a substance selected from the group consisting of (1) allyl amines having the formula



wherein x is an integer from 1 to 3, and R is selected from the group consisting of alkyl, aryl, and aralkyl radicals, (2) allyl amines having the formula



wherein x has the same significance as above and R′ represents a radical derived from a heterocyclic secondary amine, the nitrogen of which is directly bonded to the allyl radical and (3) quaternary ammonium salts of the allylamines; and (*c*) at least 1 percent of a polymerizable mono-olefinic monomer, other than acrylonitrile, which is copolymerizable with (*a*) and (*b*).

2,662,876

METHOD OF TERMINATING THE POLYMERIZATION OF MONOMERIC MATERIALS IN AQUEOUS EMULSION AND A NONSTAINING, NONDISCOLORING COMPOSITION FOR USE THEREIN

George J. Antifinger, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application March 29, 1951, Serial No. 218,258
9 Claims. (Cl. 260—82.7)

1. The method of terminating the polymerization of a monomeric material in aqueous emulsion comprising a butadiene-1,3 hydrocarbon which comprises adding to said emulsion after the beginning of the polymerization and prior to completion thereof, a combination of substances consisting of (1) a solution of an agent selected from the class consisting of sulfur, alkyl thiuram polysulfides, alkyl xanthogen polysulfides and water-soluble inorganic polysulfides and (2) an aqueous solution of a water-soluble salt of a dithiocarbamic acid, substance (1) being added in amounts equivalent to from 0.01 to 0.10% by weight of sulfur and substance (2) being added in amounts of from 0.01 to 0.10% by weight, based on the weight of monomer initially present in said emulsion.

2,662,877

COPOLYMERS OF ACRYLONITRILE AND ALLYL AMINES

David W. Chaney, Nether Providence Township, Delaware County, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala., a corporation of Delaware

No Drawing. Application June 27, 1950, Serial No. 170,710
18 Claims. (Cl. 260—85.5)

1. A copolymer containing, by weight in the copolymer molecule, at least 80 percent of acrylonitrile, and at least 1 percent of N,N-dimethylallylamine.

2,662,878

POLYMERIZATION CONTROL OF VINYL ACETATE UTILIZING HYDROGEN PEROXIDE

Harold W. Bryant, Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 5, 1951, Serial No. 235,360
4 Claims. (Cl. 260—89.1)

1. In a process for polymerizing vinyl acetate in solution in a non-aqueous solvent containing not more than 10% by weight of water, employing an acyl peroxide as polymerization catalyst, the step comprising adding sufficient hydrogen peroxide to stop the polymerization.

2,662,879

SEPARATION OF GEOMETRICAL ISOMERS BY UREA COMPLEX FORMATION

Richard A. Foster and Charles G. Laspe, Long Beach, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application January 29, 1949, Serial No. 73,656
6 Claims. (Cl. 260—96.5)

1. The process which comprises contacting 600 parts of a methyl alcoholic solution of urea saturated at 27° C. with a mixture of 25 parts elaidic acid and 75 parts oleic acid at about room temperature and separating crystalline complexes of urea with both oleic acid and elaidic acid, said complexes being relatively enriched in elaidic acid, from the unreacted portion of the original mixture, said unreacted portion being relatively enriched in oleic acid.

2,662,880

SEPARATION OF SALTS OF ORGANIC ACIDS

Vaman R. Kokatnur, New York, N. Y.; Helen G. Kokatnur, executrix of said Vaman R. Kokatnur, deceased

No Drawing. Application September 20, 1948, Serial No. 50,241
3 Claims. (Cl. 260—97.6)

1. In a method of separating a crude wet soap mixture of high molecular weight of the hydro aromatic resin acid and unsaturated fatty acid as occurring in the kraft pulp industry the steps of drying the crude wet soap mixture under non-oxidizing conditions by washing the crude wet soap with an aliphatic ketone having not more than eight carbon atoms, adding thereto abietic acid in amount substantially equivalent to the said fatty acids present, warming the mixture whereby a solution results and the abietic acid replaces fatty acids from the said salts, cooling

the mixture, and separating the resulting precipitate of sodium abietate from the remaining solution of fatty acids in the ketone.

2,662,881

PROCESS FOR THE PURIFICATION OF WATER-SOLUBLE REACTION PRODUCTS OF A ROSIN AND AN ALKYLENE OXIDE

Jack B. Batdorf, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application November 29, 1951, Serial No. 258,941

5 Claims. (Cl. 260—100)

1. The process for removing polyoxyalkylene glycols from a water-soluble product comprising polyoxyalkylene glycols and polyoxyalkylene glycol esters formed by the reaction of an 1,2-alkylene oxide with a rosin acid-containing material in the proportion of at least ten mols of the former to one mol of said rosin acid-containing material, said rosin acid-containing material having rosin acid as the sole reactive ingredient, which comprises adding water to the said product to form an aqueous solution, heating the said solution to above the lower consolute temperature of the said solution, said temperature being below the upper consolute temperature if any, maintaining the said solution at the said temperature until the said solution separates into two phases, and separating the two phases.

2,662,882

PROCESS OF PREPARING A HYDROPHILIC COLLOID

George Christianson, Minneapolis, and Paul E. Ramstad, St. Paul, Minn., assignors to General Mills, Inc., a corporation of Delaware

No Drawing. Application August 9, 1947, Serial No. 767,844

6 Claims. (Cl. 260—209.5)

1. Process of preparing a hydrophilic colloid product which comprises adjusting the moisture content of a finely divided hydrophilic colloid material selected from the group consisting of vegetable gums and pectin to within the approximate range of 20–60%, agitating the mixture to agglomerate the finely divided material into agglomerates composed of numerous particles loosely held together, converting said agglomerates into agglomerates ranging in size from approximately 20-mesh to approximately 100-mesh and drying said sized agglomerates.

2,662,883

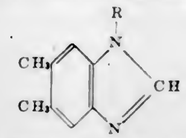
PROCESS FOR PREPARATION OF N-GLYCOSIDES OF 5,6 DIMETHYL BENZIMIDAZOLES

Frederick W. Holly, Cranford, Clifford H. Shunk, Westfield, and Karl Folkers, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application May 3, 1950, Serial No. 159,878

5 Claims. (Cl. 260—211.5)

1. The process for preparing N-glycosides of 5,6-dimethylbenzimidazole having the formula:



wherein R is a glycosido radical having at least 4 carbon atoms, which comprises heating the sliver salt of 5,6-dimethylbenzimidazole with an acylated halosugar containing at least 4 carbon atoms in an inert organic solvent.

2,662,884

METHOD OF BLEACHING CELLULOSE DERIVATIVES

Roy H. Jenkins, Jr., Hopewell, Va., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 17, 1951, Serial No. 226,930

15 Claims. (Cl. 260—232)

1. The method of bleaching and removing color bodies from an organic solvent-insoluble cellulose ether which comprises contacting a slurry of said cellulose ether in an inert water-miscible nonsolvent for said cellulose ether with an inorganic chlorite, said chlorite being activated with an inorganic hypochlorite when the pH of said slurry is not lower than 6.

2,662,885

ANTIHISTAMINE COMPOUNDS

Wilhelm Schuler, Hamburg-Hellbrook, Germany, assignor to Haarmann & Reimer, Chemische Fabrik zu Holzminden G. m. b. H., Holzminden, Weser, Germany

No Drawing. Application September 19, 1950, Serial No. 185,697

11 Claims. (Cl. 260—247.5)

1. The process which comprises reacting, in the presence of a condensing agent, a secondary amine of the formula



where C and D are each members of the group consisting of aryl and aralkyl radicals of the benzene series, with a member of the group consisting of compounds having the formula (>N-alkyl-halogen and their acid salts, where (>N is a saturated azine radical from the group consisting of piperidino and morpholino, and alkyl is a divalent alkyl radical having less than ten carbon atoms in the chain, the said condensing agent comprising a substance from the group consisting of the alkali metals, alkali metal amides, alkali metal hydrides and alkaline earth hydrides.

2,662,886

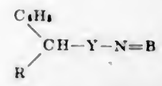
SUBSTITUTED PHENYLPROPYLAMINES

Arlo Wayne Ruddy, Morristown, N. J., Theodore J. Becker, deceased, late of Delmar, N. Y., by Maurice L. Tainter, administrator, Albany, N. Y., assignors to Winthrop-Stearns Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application January 28, 1949, Serial No. 73,443

20 Claims. (Cl. 260—293)

1. A member of the group consisting of a compound of the formula



wherein R is a member of the group consisting of

alkyl and alkenyl radicals of 4–6 carbon atoms and 5–6-membered cycloalkyl radicals, Y is a lower alpha,beta-alkylene radical, and —N=B is a member of the group consisting of di-lower-alkylamino, piperidino, morpholino and pyrrolidino groups; and water-soluble, non-toxic salts thereof.

2,662,887

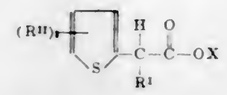
SUBSTITUTED ESTERS OF CYCLIC ALCOHOLS

Frederick Leonard, Jackson Heights, N. Y., assignor to Warner-Hudnut, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application July 21, 1951, Serial No. 238,029

11 Claims. (Cl. 260—293.4)

1. A compound selected from the group consisting of compounds having the generic formula:



Wherein R^I denotes a member selected from the group consisting of cyclohexenyl and cyclopentenyl radicals, R^{II} denotes a member selected from the group consisting of hydrogen, short chain alkyl radicals and halogens; and X is a cyclic radical attached to the oxygen at a nuclear carbon atom, said cyclic radical being selected from the group consisting of di(lower alkyl) amino-substituted cyclohexyl radicals, the di(lower alkyl) amino-substituted phenyl radicals, the piperidyl and N-short chain alkyl substituted piperidyl radicals and 3-pyridyl radicals, and salts thereof.

2,662,888

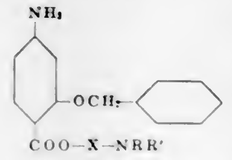
TERTIARY - AMINOALKYL 4-AMINO-2-BENZYLOXY - BENZOATES AND DEBENZYLATION THEREOF

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Original application June 17, 1950, Serial No. 168,841. Divided and this application August 17, 1951, Serial No. 242,421

20 Claims. (Cl. 260—294.3)

1. A member of the group consisting of basic ester having the formula



where NRR′ is a radical selected from the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated) - 1 - piperidyl, 1 - pyrrolidyl, (lower alkylated) -1-pyrrolidyl and 4-morpholinyl and X is a lower alkylene radical having 2–4 carbon atoms, and acid-addition salts thereof.

2,662,889

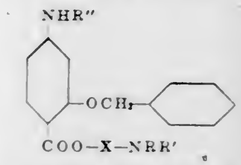
TERTIARY-AMINOALKYL 4-ALKYLAMINO-2-BENZYLOXYBENZOATES AND DEBENZYLATION THEREOF

Raymond O. Clinton, North Greenbush, and Stanley C. Laskowski, Menands, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Original application June 17, 1950, Serial No. 168,842. Divided and this application August 17, 1951, Serial No. 242,422

18 Claims. (Cl. 260—294.3)

1. A basic ester having the formula



where NRR′ is a radical selected from the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated) - 1 - piperidyl, 1 - pyrrolidyl, (lower alkylated) -1-pyrrolidyl and 4-morpholinyl, R′′ is a lower alkyl radical and X is a lower alkylene radical having 2–4 carbon atoms.

2,662,890

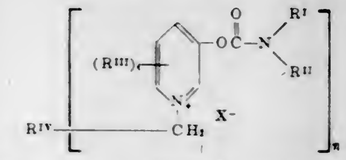
PRODUCTS HAVING PHYSOSTIGMINE-LIKE ACTION

Emile H. Sakal, Massapequa, N. Y., assignor to Warner-Hudnut, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 26, 1951, Serial No. 258,285

5 Claims. (Cl. 260—295)

1.



Wherein R^I denotes a radical selected from the group consisting of lower alkyl, benzyl, and chlorophenyl radicals, R^{II} denotes a radical selected from the group consisting of lower alkyl radicals and R^I and R^{II} together with the nitrogen form a cyclic ring having four methylene groups interrupted by oxygen; R^{III} denotes a member selected from the group consisting of hydrogen and lower alkyl radicals; R^{IV} denotes a benzene ring, X denotes a halogen and n denotes an integer not less than two and not greater than three.

2,662,891

P-CHLOROPHENYL(2-PYRIDYL) (β-DIMETHYLAMINOETHOXY)METHANE

Nathan Sperber, Bronx, and Domenick Papa, Brooklyn, N. Y., and Erwin Schwenk, Montclair, N. J., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application January 12, 1948, Serial No. 1,898

1 Claim. (Cl. 260—296)

p-Chlorophenyl(2-pyridyl) (β - dimethylaminoethoxy)methane.

2,662,892

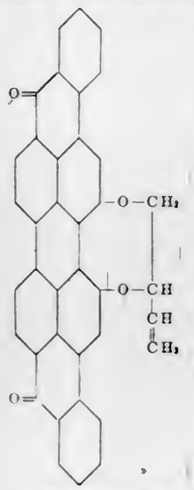
DYES OF THE DIBENZANTHRONE SERIES

Paul R. Johnson, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 25, 1951, Serial No. 243,763

2 Claims. (Cl. 260—340.3)

1. The compound of the following formula:



2,662,893

EXTRACTION OF VALUABLE PRODUCTS FROM BARK

Ervin F. Kurth, Corvallis, Oreg., assignor to State of Oregon, acting by and through the Oregon State Board of Forestry

Application March 28, 1950, Serial No. 152,482

42 Claims. (Cl. 260—345.2)



5. The process for the recovery of valuable products from the bark of trees which comprises extracting the bark with a solvent comprising a lower aliphatic hydrocarbon, thereby separating from the bark a first wax product, extracting the bark from which the said first wax product has been removed with at least one solvent of the class consisting of the normally liquid aromatic hydrocarbons and the lower halogenated aliphatic hydrocarbons, thereby selectively removing from the bark a second wax product, and extracting the bark from which the said first and second wax products have been removed with a lower alkyl ether, thereby selectively removing dihydroquercetin from the bark.

2,662,894

1 - PHENYL - 2,3 - DIMETHYL-4-AMINO-5-PYRAZOLONE - N - PHOSPHORIC ACID DIALKYL-ESTERS

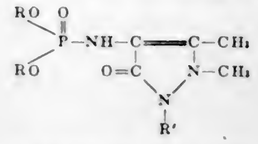
Emil Tonutti, Giessen, and Walter Schoeller, Konstanz, Germany, and Johann Jónás, Oakdale, N. Y.

No Drawing. Application October 2, 1950, Serial No. 188,076

Claims priority, application Germany October 5, 1949

5 Claims. (Cl. 260—310)

1. As a new compound, a lower dialkyl ester of 1-phenyl-2,3-dimethyl-4-amino-5-pyrazolone-N-phosphoric acid corresponding to the general formula:



wherein R' is phenyl and R is lower alkyl.

2,662,895

REVERSIBLE SOLVENT-SOLUBLE DERIVATIVES OF PHTHALOCYANINE PIGMENTS

Charles John Pedersen, Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 19, 1951, Serial No. 252,187

9 Claims. (Cl. 260—314.5)

1. Compounds of the general formula



wherein MPc designates the molecule of a phthalocyanine compound of the group consisting of metal phthalocyanines and metal-free phthalocyanines, X is a halogen selected from the group consisting of chlorine and bromine, R is a hydrocarbon radical selected from the group consisting of t-butyl, t-amyl, 2-phenyl-isopropyl and 2-p-tolyl-isopropyl, while *n* is a subscript not less than 1 and not greater than 4, said compounds being characterized by greater solubility in ethylene-glycol-monoethyl ether than the corresponding phthalocyanine compounds of formula MPc and by generating a phthalocyanine pigment upon being treated with ascorbic acid.

2,662,896

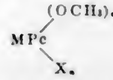
REVERSIBLE SOLVENT-SOLUBLE DERIVATIVES OF PHTHALOCYANINE PIGMENTS

Charles John Pedersen, Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 19, 1951, Serial No. 252,188

7 Claims. (Cl. 260—314.5)

1. Compounds of the general formula



wherein MPc designates the molecule of a phthalocyanine compound of the group consisting of metal-phthalocyanines and metal-free phthalocyanine, X is a halogen selected from the group consisting of chlorine and bromine, while *n* is a subscript not less than 1 and not greater than 4.

2,662,897

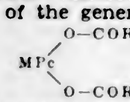
REVERSIBLE SOLVENT-SOLUBLE DERIVATIVES OF PHTHALOCYANINE COMPOUNDS

Charles John Pedersen, Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 19, 1951, Serial No. 252,189

10 Claims. (Cl. 260—314.5)

1. Compounds of the general formula



wherein MPc designates the molecule of a phthalocyanine compound of the group consisting of metal-phthalocyanines and metal-free phthalocyanine, while COR designates the acyl radical of an organic carboxylic acid having a total of not less than 2 and not more than 7 C-atoms, said compounds being characterized by greater solubility in glycol-monoethyl ether than the corresponding phthalocyanine compound of formula MPc, and by generating a phthalocyanine pigment upon being treated with ascorbic acid.

2,662,898

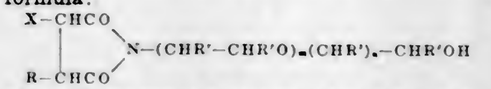
ALKANOL-ETHER-IMIDES OF LONG-CHAIN ALIPHATIC DICARBOXYLIC COMPOUNDS

John Ross, Ramsey, and Arthur Ira Gebhart, Union, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application September 20, 1949, Serial No. 116,854

5 Claims. (Cl. 260—326.5)

1. A new chemical compound of the following formula:



where X represents a carbon chain of about 8 to 24 carbon atoms, R is a material selected from the group consisting of hydrogen and short-chain alkyl groups of from 1 to 3 carbon atoms, R' is a material selected from the group consisting of hydrogen and short-chain alkyl groups and hydroxy substituted alkyl group of about 1 to 3 carbon atoms, *m* is a small integer from 1 to 3 and *n* is a small integer from 1 to 4.

2,662,899

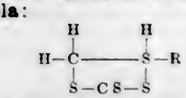
CHLORINATED CYCLIC ORGANIC TRITHIOCARBONATE AND PROCESS FOR PREPARING SAME

Joseph T. Bashour, New York, N. Y., assignor to Stauffer Chemical Company, a corporation of California

No Drawing. Application July 29, 1950 Serial No. 176,763

8 Claims. (Cl. 260—327)

1. A process for chlorinating by substitution a cyclic organic trithiocarbonate having the following formula:



wherein R is a member selected from the group consisting of hydrogen, methyl, phenyl and p-chlorophenyl radicals, comprising passing chlorine into a solution of the trithiocarbonate in an inert solvent at a temperature of at least 50° C. to form a chlorine reaction product with the trithiocarbonate and recoverying the reaction product.

2,662,900

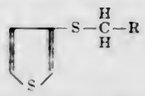
3-THIENYL THIOETHERS

John W. Brooks, Wenonah, and Sigmund J. Lukasiewicz, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Original application November 22, 1948, Serial No. 61,524. Divided and this application June 1, 1951, Serial No. 229,536

5 Claims. (Cl. 260—329)

1. As a new composition of matter, a 3-thienyl thioether characterized by the formula:



where R is a lower alkyl radical selected from the group consisting of (3-thienylthio)-alkyl and (di-3-thienylthio)-alkyl.

2,662,901

PROCESS FOR PURIFYING PHTHALIC ANHYDRIDE

Maurice E. Bailey, Orchard Park, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application March 11, 1949, Serial No. 81,018

8 Claims. (Cl. 260—346.7)

1. A process for the purification of crude phthalic anhydride obtained by catalytic oxidation of naphthalene vapors and containing naphthoquinone type impurities, which comprises heating the crude phthalic anhydride in the molten phase in the presence of a small quantity of an alkali metal salt of the group consisting of sodium and potassium bisulfites, meta bisulfites, hydrosulfites and sulfoxylates, and thereafter recovering the purified phthalic anhydride by volatilization.

2,662,902

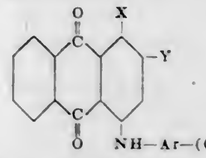
CHLOROMETHYLATED ARYLAMINO-ANTHRAQUINONES

David I. Randall, Easton, Pa., and Edgar E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application February 10, 1950, Serial No. 143,598

10 Claims. (Cl. 260—380)

1. An anthraquinone compound having the following general formula



wherein X represents a member of the group consisting of H, hydroxyl, amino, and methylamino groups, Y represents a member of the group consisting of hydrogen and bromine, and Ar represents a monocyclic aryl hydrocarbon radical in which the —NH— and —CH_2Cl radicals are nuclear substituents, and *n* represents an integer from 1 to 2.

2,662,903

HALOGENATION PROCESS

Roman P. Holysz, Jr., and J Allan Campbell, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 16, 1952, Serial No. 299,224

15 Claims. (Cl. 260—397.4)

1. In a process for the halogenation of a 17α-hydroxy-3-ketopregnane to introduce a halogen atom into the 4-position thereof by reacting the 17α-hydroxy-3-ketopregnane with a halogen of atomic weight from 35 to 80, the step of conducting the halogenation in the presence of a N,N-dialkylacylamide.

2,662,904

PREPARATION OF 17α-HYDROXY STEROIDS

Percy L. Julian, Maywood, and Edwin W. Meyer and Isabelle Ryden, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application May 16, 1949, Serial No. 93,638

7 Claims. (Cl. 260—397.5)

1. The process which comprises reducing a nuclearly unsaturated 17-acetyl-16,17-oxidosteroid with lithium aluminum hydride.

2,662,905

STABILIZATION OF GLYCERIDE OILS WITH CARBOXYMETHYL MERCAPTOSUCCINIC ACID

Arthur W. Schwab, Patricia M. Cooney, and Cyril D. Evans, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application October 5, 1951, Serial No. 250,008

5 Claims. (Cl. 260—398.5)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a process for refining a glyceride oil which includes the step of steam deodorization, the improvement which comprises adding to the oil 0.001 to 0.1 percent carboxymethyl mercaptosuccinic acid subsequent to said deodorization at a time during the cooling of the oil from said deodorization.

2,662,906

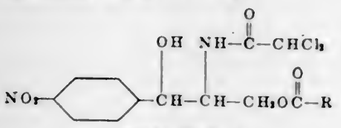
CHLORAMPHENICOL ESTERS AND METHOD FOR OBTAINING SAME

William H. Edgerton, Huntington Woods, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application March 3, 1951, Serial No. 213,805

9 Claims. (Cl. 260—404)

1. A compound of the formula,



Threo form

where R is an aliphatic hydrocarbon radical containing 7 to 19 carbon atoms inclusive.

2,662,907

PROCESS OF MAKING REFINED SUGAR CANE WAX

Albert C. Henn, Linden, and Harry W. Peterson, Jr., Somerville, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 27, 1950, Serial No. 192,607

4 Claims. (Cl. 260—412.5)

1. A process for obtaining a refined wax from sugar-cane mud which comprises contacting the mud with boiling 99° isopropyl alcohol whereby the wax and fatty constituents are extracted from the mud, separating the resulting alcohol extract from the mud, diluting the separated extract with water to precipitate the wax from solution, and separating said wax from the water and alcohol mixture containing the fatty constituents.

2,662,908

OXIDATION OF FATTY ACIDS

Roger L. Logan, Markham, Ill., assignor to The C. P. Hall Company of Illinois, Chicago, Ill., a corporation of Ohio

Continuation of application Serial No. 57,370, October 29, 1948. This application March 30, 1951, Serial No. 231,298

2 Claims. (Cl. 260—413)

1. The process of producing monocarboxylic acid, which comprises oxidizing fatty acid containing 4 to 24 carbon atoms with air in the presence of nitric acid of 8 to 30 per cent concentration at an elevated temperature and thereby producing fatty acid of shorter chain length than the original fatty acid together with dicarboxylic acid and volatilizing said acid of shorter chain length from the reaction mixture during the reaction, condensing it and collecting it separately from the reacting mass.

2,662,909

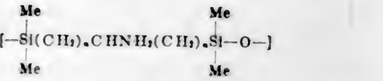
AMINOSILOXANES

Leo H. Sommer, State College, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application December 13, 1951, Serial No. 261,596

7 Claims. (Cl. 260—448.2)

1. A siloxane in which the polymer units are of the formula



in which n has a value from 2 to 5 inclusive and in said siloxane all polymer units being bonded one to another by Si—O—Si linkages.

2,662,910

KETOSILOXANES

Leo H. Sommer, State College, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application December 13, 1951, Serial No. 261,597

8 Claims. (Cl. 260—448.2)

1. A polysiloxane in which all of the polymer units are of the formula

$$—Me_2Si(CH_2)_nCO(CH_2)_nSiMe_2O—$$

in which n has a value from 2 to 5 inclusive.

2,662,911

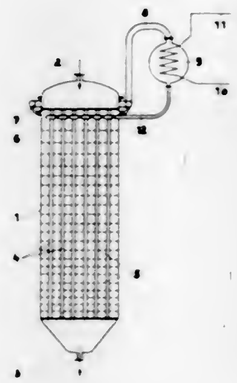
TEMPERATURE CONTROL IN THE CATALYTIC HYDROGENATION OF CARBON MONOXIDE

Oskar Dorschner, Bad Homburg vor der Hohe, Wilhelm Wenzel, Frankfurt am Main, and Hans Georg Kayser, Frankfurt am Main Eschersheim, Germany, assignors to Metallgesellschaft Aktiengesellschaft, Frankfurt am Main, Germany, a corporation of Germany

Application June 8, 1949, Serial No. 97,842

Claims priority, application Germany October 1, 1948

13 Claims. (Cl. 260—449)



1. A process for the catalytic hydrogenation of carbon monoxide which comprises continuously passing the reaction gases downwardly through an extended reaction space containing a stationary catalyst and maintaining the reaction gases during their passage through the reaction space in indirect heat exchange relationship with a liquid disposed along said extended reaction space, said liquid having a substantial boiling point range and composed of a mixture of at least two components which in such mixture have different boiling points and continuously evaporating a portion of such liquid under rectifying conditions along said extended reaction space while in indirect heat exchange relationship with the reaction gases passing through said reaction space to maintain a difference between the boiling point of the liquid in the lower portion thereof and the boiling point of the liquid in the upper portion thereof greater than that produced by hydrostatic pressure in said liquid.

2,662,912

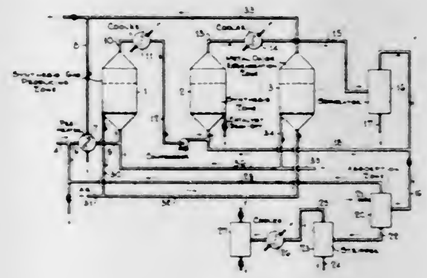
HYDROCARBON SYNTHESIS REACTION

Homer Z. Martin, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 28, 1950, Serial No. 176,371

5 Claims. (Cl. 260—449.6)

1. Improved hydrocarbon synthesis process which comprises introducing feed gases comprising methane into a synthesis gas production zone, contacting at temperature and pressure conditions adapted to produce hydrogen and carbon monoxide, said feed gases in said synthesis gas production zone with a powdered metal oxide in the form of a fluidized mass whereby the said metal oxide is at least partially reduced to the metallic state, withdrawing reduced metal from said synthesis gas producing zone and treating said metal with air in a regeneration zone at a temperature about 100°–200° F. higher than that existing in said gas generating zone, returning regenerated metal oxide to said gas generating zone, together with hot metal to supply a portion of the heat required therein, removing overhead from said synthesis gas production zone reactant gases comprising hydrogen and carbon monoxide, introducing these gases into a hydrocarbon synthesis zone, contacting said gases in said hydrocarbon synthesis zone with a powdered



catalyst in the form of a fluidized mass at temperature and pressure conditions adapted to synthesize hydrocarbons, removing overhead from said hydrocarbon synthesis zone vapors containing normally liquid product and also including normally gaseous hydrocarbons, charging said vapors to a cooling zone where normally liquid constituents are condensed, recovering uncondensed vapors, recycling a portion of said vapors to said hydrocarbon synthesis zone, charging another portion of the uncondensed vapors to a second zone, effecting separation of the C_3 and heavier hydrocarbons from the lighter hydrocarbons and recirculating the said lighter hydrocarbons containing predominantly C_1 and C_2 hydrocarbons to the synthesis gas producing zone.

2,662,913

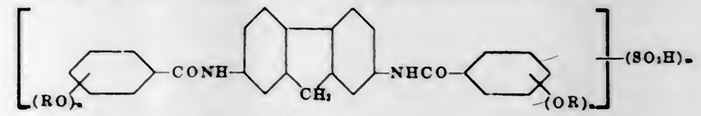
DIAMINOFLUORENE DERIVATIVES

Dale R. Eberhart, Middlesex, and Nena K. Barabutes, New Brunswick, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 11, 1952, Serial No. 298,460

8 Claims. (Cl. 260—507)

1. A compound selected from the group consisting of those having the formula:



in which R is a lower alkyl radical and *m* and *n* are positive integers smaller than three; and their salts.

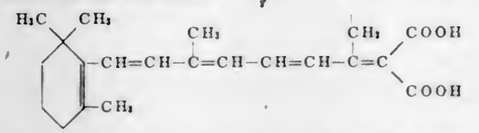
2,662,914

ALPHA, ALPHA-VITAMIN A DIACID AND SYNTHESIS OF ISOPRENIC POLYENES

Charles D. Robeson, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 22, 1950, Serial No. 157,623
6 Claims. (Cl. 260—514)

1. As a new chemical compound, α,α-vitamin A diacid of the formula



2. The method of making a β-methyl-1,4-diene α,α-dicarboxylate which comprises condensing an aldehyde with an isopropylidene malonate diester in the presence of a basic condensation catalyst, said aldehyde containing 2 to 15 carbon atoms and but a single carbonyl group, said aldehyde consisting solely of carbon and hydrogen except for the single oxo oxygen of said carbonyl group.

2,662,915

ALPHA-AMINO ACIDS CONTAINING ALPHA, FLUORINATED-ALKYL OR CYCLOALKYL GROUPS

John Frank Lontz and Maynard Stanley Raasch, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 30, 1952, Serial No. 296,492
10 Claims. (Cl. 260—514)

1. An aminocarboxylic acid wherein a carbon alpha to a carboxyl carries an amino group and a radical from the group consisting of fluoroalkyl and fluorocycloalkyl radicals.

2,662,916

EXTRACTION OF LOWER FATTY ACIDS

Franklin N. Bent, Heysham, England, assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application October 22, 1952, Serial No. 316,215
9 Claims. (Cl. 260—541)

1. A process for extracting a lower fatty acid from a weak aqueous solution thereof contaminated with small amounts of dissolved cellulosic bodies arising from cellulose organic ester manufacture which comprises introducing weak aqueous acid contaminated with the aforesaid cellulosic bodies into an extraction column adjacent the upper end thereof, introducing an extraction medium into the extraction column adjacent the lower end thereof, said extraction medium containing from about 40% to about 76% isopropyl ether and from about 60% to about 24% of an organic compound having a boiling point lower than that of the acid being extracted and selected from the class of lower aliphatic esters, and ethers containing from 3 to 5 carbon atoms in the molecule, passing the weak aqueous acid and extraction medium countercurrent to each other through the extraction column to effect extraction of the acid and cause the cellulosic bodies to precipitate, maintaining the temperature throughout the liquid in the extraction column above 35° C. to cause the precipitated cellulosic bodies to exhibit viscous flow and to settle to the bottom of the extraction column, withdrawing the resulting depleted aqueous solution and the precipitated cellulosic bodies from the extraction column adjacent the lower end thereof, and withdrawing the extraction medium enriched with the extracted acid from the extraction column adjacent the upper end thereof.

2,662,917

PRODUCTION OF THIONOPHOSPHORUS COMPOUNDS

Warren L. Jensen, Ponca City, Okla., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware

No Drawing. Application November 24, 1951, Serial No. 258,087
7 Claims. (Cl. 260—543)

1. The method of producing organic thiophosphonyl halides which comprises bringing together at atmospheric pressure and at a temperature of from about 0° to 90° C.

(*a*) an organic halophosphine
(*b*) a polyvalent metal halide catalyst of the Friedel-Crafts type
(*c*) a sulfurizing agent

for a length of time until reaction has substantially completely subsided; and then hydrolyzing and separating the polyvalent metal halide catalyst from the reaction mass, the quantity of said sulfurizing agent used, per mole of organic halophosphine being sufficient to provide from one to three gram atoms of sulfur.

2,662,918

PROCESS FOR THE PREPARATION OF POLYCHLORINATED DERIVATIVES OF PHENOL

David C. Spaulding, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application April 18, 1951, Serial No. 221,745
5 Claims. (Cl. 260—586)

4. In a process wherein phenol is reacted with chlorine at elevated temperature to form octachlorocyclohexenone by successively forming derivatives of phenol whose chlorine content corresponds to that of trichlorophenol, tetrachlorophenol and a derivative of phenol containing more than four chlorine atoms per molecule and wherein the reaction with chlorine beyond the formation of a product whose chlorine content corresponds to that of trichlorophenol is carried out in the presence of ferric chloride, the improvement which consists in carrying out the reaction beyond the stage where four moles of chlorine per mole of original phenol have been consumed at a temperature of 120° to 140° C. and in the presence of preformed octachlorocyclohexenone in an amount of from 10 to 50 mole percent of the reaction mixture and removing the ferric chloride.

2,662,919

HYDROLYSIS OF ALKENYL ALKYL ETHERS IN THE VAPOR PHASE

Hugh J. Hagemeyer, Jr., Kingsport, Tenn., and Dan C. Anderson, Charlotte, N. C., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application May 13, 1950, Serial No. 161,896
13 Claims. (Cl. 260—593)

1. A process for hydrolyzing an ether selected from those represented by the following general formula:

$$R-O-\underset{R_1}{C}=\underset{R_2}{C}-R_3$$

wherein R represents an alkyl group and R_1, R_2, and R_3 each represents a member selected from the group consisting of a hydrogen atom and an alkyl group comprising passing a mixture of the vapors of the said ether and steam over silver oxide deposited on a carrier, the silver oxide comprising from 5 to 30 per cent by weight of the total catalyst mass, at a temperature of from 150°–400° C.

2,662,920

PROCESS FOR PREPARING 2,3-DIMETHYL-HEPTENE-2-ONE-6

Walter Kimel, Highland Park, N. J., assignor to Hoffmann-La Roche Inc., Roche Park, Nutley, N. J., a corporation of New Jersey

No Drawing. Original application June 10, 1952, Serial No. 292,730. Divided and this application November 29, 1952, Serial No. 323,334
2 Claims. (Cl. 260—595)

1. A process which comprises condensing diketene with 2,3-dimethyl-buten-3-ol-2 and decarboxylating the condensation product to produce 2,3-dimethyl-hepten-2-one-6.

2,662,921

CATALYST AND METHOD FOR SELECTIVE OXIDATION

William R. Middleton, Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application January 9, 1951, Serial No. 205,231
8 Claims. (Cl. 260—604)

1. In the method of converting propylene to acrolein which comprises passing refinery gases containing propylene mixed with gas containing free oxygen through a catalyst consisting predominantly of an oxide of tellurium, the improvement which comprises employing a catalyst containing about 1 to about 40 mole per cent of an oxide of rhenium and the balance consisting predominantly of an oxide of tellurium.

2,662,922

METHOD FOR PRODUCTION OF COMPOSITION OF MATTER

Morton Kleiman and Arthur Goldman, Chicago, Ill., assignors to Arvey Corporation, a corporation of Illinois

No Drawing. Application July 13, 1950, Serial No. 173,688
6 Claims. (Cl. 260—617)

1. The method of making 1-hydroxy-4,5,6,7,8,8-hexachloro - 3a,4,7,7a - tetrahydro - 4,7 - methanoindene which comprises oxidizing 4,5,6,7,8,8-hexachloro - 3a,4,7,7a - tetrahydro - 4,7 - methanoindene in the presence of water with selenium dioxide in a solvent substantially free of carboxylic acids.

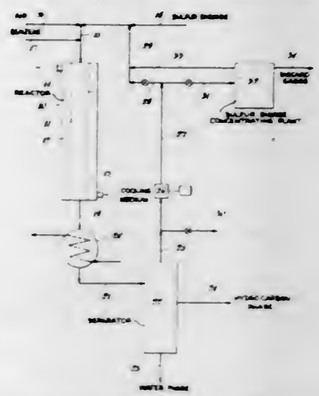
2,662,923

OXIDATION OF AROMATIC HYDROCARBONS TO PHENOLS

William H. Reeder III, Olean, N. Y., assignor, by mesne assignments, to Dresser Operations, Inc., Whittier, Calif., a corporation of California

Application January 8, 1951, Serial No. 204,878
19 Claims. (Cl. 260—621)

1. The method of effecting limited oxidation of aromatic hydrocarbons with formation of phenols which comprises reacting in vapor phase an aromatic hydrocarbon with oxygen in the presence of a volume of sulfur dioxide at least equal to the volume of said oxygen in a reaction zone maintained at a temperature in the range of about 230° to 600° C., and withdrawing from said reaction zone gasiform reaction effluent containing phenol thus formed.



2,662,924

DEHYDROCHLORINATION OF POLYCHLOROCYCLOHEXANES

David D. Humphreys, Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 30, 1951, Serial No. 259,281
5 Claims. (Cl. 260—648)

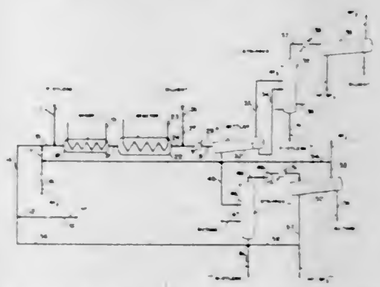
1. A process for the dehydrochlorination of a polychlorocyclohexane comprising contacting said polychlorocyclohexane at an elevated temperature with a catalytic amount of a sulfonic acid.

2,662,925

ISOMERIZATION OF XYLENES

David A. McCaulay, Chicago, Ill., and Arthur P. Lien, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application June 29, 1951, Serial No. 234,414
15 Claims. (Cl. 260—668)

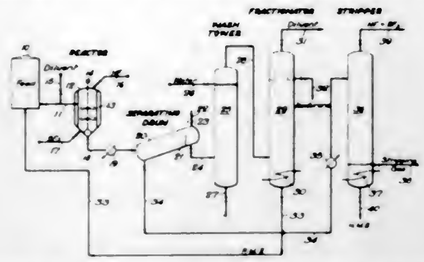


15. A process which comprises contacting under substantially anhydrous conditions a feed comprising essentially a member of the class consisting of ortho-xylene, para-xylene, mixtures thereof and mixtures of meta-xylene and at least one other xylene isomer wherein the meta-xylene is present in an amount appreciably less than the

theoretical thermodynamic equilibrium amount, with between about 1 mol and 3 mols of BF_3 per mol of xylene in said feed and with between about 100 and 300 volume percent of liquid HF based on said feed to form a single phase homogeneous solution of said feed and BF_3 in said liquid HF, maintaining said solution at a temperature between about 50° and 85° F. for a time at least sufficient to produce a reaction product mixture containing at least about 80 mol percent of meta-xylene but not long enough to produce essentially any side-reaction products and removing the HF and BF_3 from the reaction product mixture.

2,662,926
PENTAMETHYLBENZENE DISPROPORTIONATION
Arthur P. Lien, Hammond, Ind., and David A. McCaulay, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 31, 1950, Serial No. 182,611
5 Claims. (Cl. 260—671)

1. A process for the production of isodurene and hexamethylbenzene by the disproportionation of pentamethylbenzene, which process comprises treating a feed containing pentamethylbenzene as substantially the only reactive hydrocarbon, with at least about 2 mols of liquid HF per mol of said pentamethylbenzene and at least about 1 mol of BF_3 per mol of said pentamethylbenzene, at a temperature between about 20° and 80° C., for a time sufficient to produce an appreciable amount of isodurene and hexamethylbenzene; under a pressure sufficient to maintain said HF in the liquid phase, separating a product containing isodurene, pentamethylbenzene and hexamethylbenzene as substantially the only alkylbenzenes therein by removing HF and BF_3; and



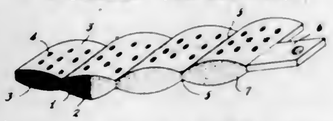
recovering isodurene and hexamethylbenzene from said mixture.

2,662,927
DIARYLGUANIDINE VULCANIZATION ACCELERATORS
Martin L. Nadler, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 19, 1951, Serial No. 252,209
6 Claims. (Cl. 260—797)

1. A diarylguanidine composition comprising a diarylguanidine of the class consisting of di-ortho-tolylguanidine and diphenylguanidine having intimately incorporated therein from 1.0% to 3.0% by weight of a triaryl phosphate of the benzene series and from 1.0% to 4.0% by weight of an aliphatic hydrocarbon oil, both of which are liquid at 60° C.

ELECTRICAL

2,662,928
STORAGE BATTERY ELECTRODE
Joseph B. Brennan, Cleveland, Ohio
Application February 25, 1950, Serial No. 146,237
8 Claims. (Cl. 136—24)



1. A composite porous metallic negative electrode for storage batteries of the alkaline electrolyte type comprising an inner layer of relatively highly electrolytically active negative porous particulate spray deposited metal enveloped by and thermally and conductively bonded to an exterior relatively less active porous spray deposited particulate nickel layer, said nickel layer imparting the characteristics of stability and durability to said electrode by rendering the same resistant to corrosion and disintegration.

2,662,929
METHOD OF MANUFACTURING BATTERY SEPARATORS AND THE LIKE
Harold F. Dague, Downey, Calif., assignor of one-third to William B. Collins, Inglewood, and one-third to Lee M. Caldwell, Long Beach, Calif.
Application August 23, 1952, Serial No. 306,067
4 Claims. (Cl. 136—148)

1. A method of making porous, acid-resistant and homogeneous articles, adapted for use as battery separators and the like, which comprises: contacting a moving stream of solid, gobular particles of a polymerized resin with from about 0.75% to about 5% of a liquid softening agent by weight of the resin particles for a time sufficient to impart tackiness to said surfaces; and compressing a predetermined quantity of said treated particles, while their surfaces are tacky, to deform contacting surfaces of said particles and without crushing said particles, to form a porous article of desired contour and thickness.



2,662,930
HERMETICALLY SEALED ELECTRICAL UNIT
Oliver James Morelock, Short Hills, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application December 13, 1948, Serial No. 65,033
1 Claim. (Cl. 174—52)

An uncased hermetically sealed electrical unit comprising an electrical element having terminals, and elastic non-hardening insulating material completely enclosing said electrical element except where interrupted to pass said terminals; said electrical element being vacuum impregnated with and coated by an oxidized asphalt, a non-hardening layer of oxidized asphalt and powdered silica on and enclosing said



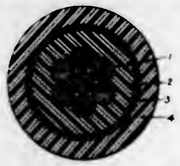
coating of oxidized asphalt, said layer consisting of oxidized asphalt and powered silica in the proportions by weight of the order of 68% oxidized asphalt and 32% powdered silica, and a non-tacky elastic coating of modified air-drying lacquer on and enclosing said non-hardening layer.

2,662,931
SPIRALLY APPLIED, CONDUCTIVELY-CONTACTING CABLE ARMOR
Wilbur E. Mougey, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 3, 1949, Serial No. 125,245
6 Claims. (Cl. 174—106)



1. An armored cable comprising a plurality of insulated conductors, a lead sheath enclosing said conductors, a coating of flooding compound on said sheath, a pair of tapes of dissimilar material applied side by side over said compound in the same direction, a second coating of flooding compound applied over said tapes, a spirally wound metal cushioning tape embedded in said compound and applied in a direction opposite to that of said first pair of tapes, a third coating of flooding compound over said cushioning tape, a pair of metal tapes embedded therein, one of said tapes wound in a direction the same as that of said first pair of tapes, a fourth coating of flooding compound over said second pair of tapes and having a serving of jute roving thereover and a finish coat over said roving comprising a layer of flooding compound and a coating of a non-adhesive material.

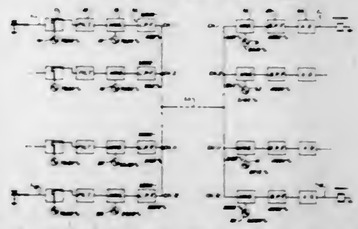
2,662,932
SYNTHETIC CABLE JACKETING COMPOSITIONS
Arthur J. Warner, Glen Ridge, N. J., assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware
Application December 1, 1951, Serial No. 259,343
4 Claims. (Cl. 174—107)



1. An electrical cable for use in the transmission of high frequency electrical energy that includes conductors and a polyalkylene dielectric, characterized in that the cable includes a protective jacketing composition which retains its flexibility at operating temperatures down to −45° C., does not by migratory effects adversely alter the electrical properties of the cable dielectric, and may be processed without critical temperature limitations, said jacketing composition being comprised of a substantially homogeneous mixture of the following materials in approximately the proportions by weight indicated:

	Parts
Copolymer of vinyl chloride and vinyl acetate	30–35
Copolymer of acrylonitrile and butadiene	30–35
Polyester of propylene glycol and sebacic acid	20–25
Basic silicate of white lead	2½–5
Dibasic lead phosphite	2–4
Low molecular weight polybutene	2–5

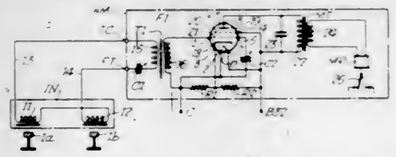
2,662,933
MULTIPLEX CARRIER TELEGRAPH SYSTEM
Fred J. Singer, Rockville Centre, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 26, 1951, Serial No. 222,954
5 Claims. (Cl. 178—51)



1. In a multichannel voice frequency carrier telegraph system, a common transmission line for all of the channels, a plurality of sending circuits of substantially identical construction connected to one end of said line for respectively supplying thereto a carrier wave of a different voice frequency modulated with telegraph signals, representing the different carrier channels on said line, each of said sending circuits including two tandem-connected modulator stages which are substantially alike for all circuits, the first stage modulator of each channel having an input for applying telegraph pulses thereto, means to supply waves of the same frequency to the first stage modulator of all circuits for modulation therein by the telegraph pulses applied thereto, the frequency of said waves being more than three times higher than the frequency of the highest voice frequency channel, means for selecting the pulse-modulated waves of said same frequency in the output of said first modulator stage in each sending circuit, like variable frequency sources of waves for the second stage modulators of the several sending circuits each adjusted to supply waves of a different frequency to the second modulator of each sending circuit for combination therein with the selected wave of said same frequency in its input to produce sum and difference frequency components of the combined waves, the frequencies of the waves of said different frequency supplied to the second modulator of each sending circuit being lower than the frequency of the waves supplied to the first stage modulator of that circuit by the frequency of the corresponding voice frequency channel, and a low pass filter in each circuit between the

second stage modulator and the common transmission line for selecting and transmitting to said line the difference frequency components appearing in the output of the preceding second stage modulator, all of said filters having the same cut-off frequency which is higher than the frequency of any of the voice frequency carrier waves and lower than the frequency of any of the waves supplied from said variable frequency sources to the second stage modulators.

2,662,934
VACUUM TUBE AMPLIFIER CIRCUITS FOR CODED CARRIER CURRENT
Leslie R. Allison, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application February 8, 1949, Serial No. 75,188
2 Claims. (Cl. 178—66)



1. In combination: a vacuum tube having an anode, a cathode and a control grid; said tube provided with two external terminals one connected to each end of said grid, a transformer having a primary and a secondary winding, an anode circuit including a power source and said primary winding connected to said anode and cathode to produce a current flow in the anode circuit as governed by voltages applied to said control grid, a signaling source of coded carrier energy, another winding to which said energy from said signaling source is supplied at times and is not supplied at other times, a capacitor, a direct voltage bias source; a grid circuit including in series said another winding, said grid and its two terminals and said capacitor; said bias voltage source having its positive terminal connected to said cathode and its negative terminal connected to said grid circuit at the junction of said capacitor and said another winding to bias the control grid negative in voltage with respect to said cathode and at a voltage to produce a substantially zero anode circuit current when no energy from said source is supplied to said another winding, and a polar code following relay connected to said secondary winding to be operated by the electromotive forces induced in said secondary winding in response to variations of the anode circuit current due to the signaling energy received by said another winding, said control grid being checked by said series grid circuit and said bias voltage being effectively maintained by the bias voltage source when an open circuit of said grid circuit occurs, whereby variations of said anode circuit current and false operation of said relay due to an intermittent open circuit of the tube circuits when no coded carrier is supplied to said another winding is avoided.

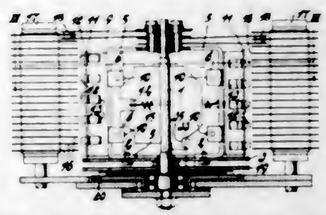
2,662,935
REGISTER SYSTEM FOR RECEIVING SEVERAL CODES
Henri Louis Lesigne, Vanves, France, assignor to Compagnie Industrielle des Telephones
Application April 8, 1949, Serial No. 86,303
1 Claim. (Cl. 179—18)

In a system for the reception of coded signals in telecommunication: a main register comprising a marking switch having a first row of terminals, a second row of strapped terminals in front of said first row and a wiper hunting over said two rows; a plurality of calling subscribers' two-wire lines; means responsive to a call made over any of said lines for connecting said main register to the two wires of the calling line; an auxiliary register comprising two battery terminals, means responsive to the reception of a train of coded impulses and a stopping relay having a back contact; means responsive to a call made over at least one of said lines for connecting said auxiliary register to said main register; and for subsequently connecting through said main register one wire of said line to said means



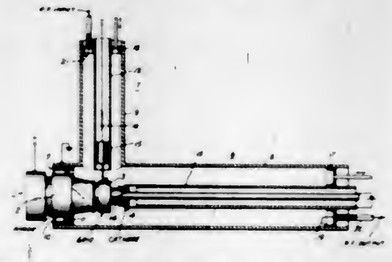
responsive to the reception of a train of coded impulses; an energizing circuit passing over said back contact of said stopping relay for bringing about the hunting by said wiper of said marking switch after the reception of each train of impulses; a plurality of wires each of which has one of its extremities connected to one different terminal of said first row of terminals of said marking switch; means for connecting to one of said battery terminals of said auxiliary register over said stopping relay the other extremity of one or the other of said wires depending on the received combination of coded impulses; and a connection between said second row of strapped terminals of said marking switch and the other battery terminal.

2,662,936
MECHANICALLY DRIVEN SELECTOR SWITCH
Jacob Marinus Unk, Nicolaas Scheffer, and Bartholomeus Matthias Pennekamp, Hilversum, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application June 30, 1950, Serial No. 171,332
Claims priority, application Netherlands July 7, 1949
10 Claims. (Cl. 179—27.51)



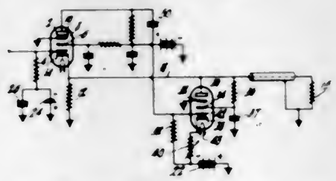
1. A mechanically driven selector switch comprising a plurality of rotatable wipers, first means to move said wipers into and out of engagement with a plurality of contacts, disengageable coupling means operatively connecting said wipers to a driving shaft, said coupling means comprising a driving member connected to said driving shaft, a driven member driving said wipers and an auxiliary member for transmitting motion from said driving member to said driven member, a pair of sequentially operating stop members, the first stop member acting on said driven member to prevent rotation of said wipers, means on said auxiliary member which act on said first means after said driven member has been acted upon to move said wipers into engagement with the contacts, means for spring loading said auxiliary member after said driven member has been acted upon, the second stop member acting on said auxiliary member to prevent said member from moving back under the spring load, and controllable means for sequentially releasing said stop members.

2,662,937
COAXIAL LINE RESONATOR ELECTRON DISCHARGE DEVICE ARRANGEMENT
Alexander Horvath, Clifton, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 5, 1949, Serial No. 79,867
3 Claims. (Cl. 179—171)



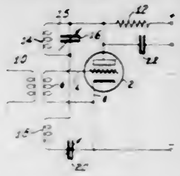
1. An electron discharge device arrangement comprising a pair of coaxial line resonators opening into each other and extending at right angles to each other so that their electrical fields at said opening are at right angles and do not interact, each of said resonators including an inner and outer conductor and each resonator being closed at its outer end, means for injecting R. F. energy into one of said resonators and means for taking out R. F. energy from the other of said resonators, an electron discharge device extending into one of said line resonators within its outer conductor at the point where said resonators open into each other without closing the opening therebetween, said electron discharge device having at least three electrodes one of which is coupled to the outer conductors of both resonators, the other two electrodes being separately coupled to different ones of the inner conductors.

2,662,938
COUPLING CIRCUIT FOR USE IN CATHODE COUPLED CIRCUITS
Halian E. Goldstine, Port Jefferson Station, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application March 29, 1949, Serial No. 84,158
6 Claims. (Cl. 179—171)



1. A coupling circuit having an output lead maintained at a fixed potential comprising an electron control device having at least one output element, at least one bilateral impedance connected between ground and the output element of said control device having the lowest direct potential, an output lead connected at the junction of said bilateral impedance and said element, a controllable unilateral impedance having a control element, said unilateral impedance being connected in parallel with said bilateral impedance so as to pass current from ground to said junction, a variable impedance and a source of electromotive force connected in series with said unilateral impedance and ground, said source being of such polarity and magnitude as to cause a direct current to flow through said bilateral impedance of equal magnitude and opposite in polarity to the current induced in said bilateral impedance by said electron control device.

2,662,939
HIGH SELECTIVITY AMPLIFIER
Karl Nowak, Vienna, Austria
Application April 2, 1949, Serial No. 85,181
1 Claim. (Cl. 179—171)

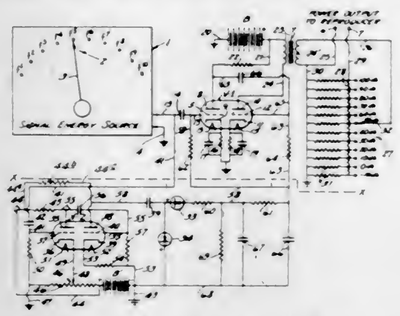


A frequency selective amplifying circuit comprising in combination an amplifier having at least a plate, a grid and a cathode, an aperiodic input coil to which signals to be amplified may be coupled, said input coil being connected between said grid and said cathode, a source of positive potential, a load impedance connected between said plate and said source, a parallel resonant circuit comprised of a coil and a condenser connected in parallel, said resonant circuit being tuned to the frequency to be selectively amplified, a series resonant circuit comprised of a coil and a condenser, said series resonant circuit being tuned to the frequency to be selectively amplified, said parallel resonant circuit and said series resonant circuit being connected in series between said plate and said cathode, the coil in said parallel resonant circuit being regeneratively coupled to said input coil and the coil in said series circuit being degeneratively coupled to said input coil.

2,662,940
AUTOMATIC POWER OUTPUT LIMITING CONTROL SYSTEM FOR AUDIOMETERS
Fred E. Barron, Minneapolis, Minn., assignor to The Maico Company, Incorporated, Minneapolis, Minn., a corporation of Minnesota
Application October 4, 1950, Serial No. 188,323
6 Claims. (Cl. 179—171.9)

1. In a variable frequency, variable power output audiometer having a signal energy amplifier located intermediate its signal source and the audiometer output and which includes an electronic signal energy amplifier having plate and cathode and control grid elements, the latter of which is connected to the signal energy source, of a normally inoperative automatic output power control system for the audiometer positively limiting the output thereof to a maximum value close to but below threshold of pain value at all test frequencies, said automatic output power control system comprising electronic signal energy amplifier means having plate and cathode and control grid elements and having its control grid connected to the signal energy

source at a point ahead of the control grid of the first-said amplifier, means biasing the control system signal energy amplifier means to cut off for all applied control grid signal voltages below a predetermined maximum value close to but below that which would be required to produce threshold of pain power at the audiometer output, a plate circuit for the control system amplifier means, and a control circuit operatively associated with the plate circuit of the control system signal energy amplifier means, said control circuit comprising a rectifier having a D. C. connection to an element of the audiometer signal energy amplifier other than the plate thereof



and to which that amplifier is responsive to D. C. control potential of the polarity thus applied to reduce its amplification factor, the control system being rendered operative only when the signal voltage impressed upon the control grid of its amplifier overcomes the biasing means, the control system amplifying the applied signal voltage to such an extent that the audiometer signal energy amplifier will be abruptly biased to cut off responsive to applied signal voltage of value greater than is required to overcome the biasing means of the control system amplifier but of less value than is required to produce threshold pain power at the audiometer output.

2,662,941
SWITCH MECHANISM
William Fisher, Willimansett, Mass., assignor to The Electric Game Company, Holyoke, Mass., a corporation of Massachusetts
Application May 20, 1952, Serial No. 288,841
2 Claims. (Cl. 200—6)



1. A single throw electric switch device for a board game or the like comprising in combination, a flat relatively thin support formed from cardboard-like material, an elongated primary contactor having a rear end foot portion rigidly secured to said support by metallic means adapted for connection in a circuit, said primary contactor formed from a strip of relatively thin and narrow resilient metal to have a free end portion inclining normally upwardly and forwardly away from said foot portion and being manually depressible downwardly to a lower contacting position, a primary contact for connecting in a circuit secured to said support forwardly of the rear end of the primary contactor and disposed to be engaged by the forward end of the contactor in lower contacting position thereof, a pair of secondary contacts for connecting in a circuit secured to said support in spaced relation intermediate opposite ends of the primary contactor and at opposite sides thereof, a secondary contactor formed from a strip of relatively narrow and thin strip of resilient metal disposed transversely of said primary contactor intermediate opposite ends thereof, and insulating means between said contactors and means securing said insulating means and contactors together, opposite ends of said secondary contactor declining downwardly from opposite sides of said primary contactor arranged for yielding engagement with the secondary contacts in lower position of the primary contactor.

2,662,942
INDICATING SWITCH
Marion R. Winkler, La Grange Park, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application January 27, 1949, Serial No. 73,190
7 Claims. (Cl. 200—18)



4. A switch assembly comprising first and second switches each having first and second operated positions, said first switch including an arm for operating the same to said first and second positions and to a normal unoperated position, biasing means tending to hold said arm in said normal position, said second switch having a member for operating the same to said first and second positions, and means interconnecting said arm and said member for moving said second switch to said first and second positions when said arm is moved to said first and second operated positions respectively, said interconnecting means being inoperative when said arm returns from said first and second operated positions to said normal position so that said second switch remains in the position to which it was moved.

2,662,943
TIME SWITCH
David Morrison, Two Rivers, Wis., assignor to Paragon Electric Company, Two Rivers, Wis., a corporation of Wisconsin
Application October 10, 1952, Serial No. 314,051
4 Claims. (Cl. 200—39)



1. A time switch comprising motor driven timing means, an electric switch, a switch operating arm having rocking means rigid therewith and rocked from said timing means, a switch operator having rocking motion only for opening and closing said switch, a locking plunger slidably carried by said switch operator for locking said switch operator against rocking motion, spring means directly interposed between said rocking means and said switch operator for storing up energy when said rocking means is rocked, and means on said rocking means for sliding said locking plunger to release said switch operator.

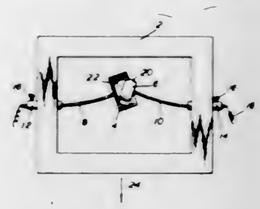
2,662,944
INFORMATION-STORING DEVICE
Charles S. Carney, Edgar H. Fritze, and Lamont C. Stanley, Cedar Rapids, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application May 28, 1952, Serial No. 290,544
1 Claim. (Cl. 200—46)



Information-storing means comprising a base plate, a plurality of switches mounted on said base plate, a contact attached to each switch and extending outwardly therefrom, a plurality of stand-offs connected to said base plate, a second plate slidably connected to said stand-offs, a third plate rigidly connected to said stand-offs, a camming mechanism connected to said second and third plates to move said second plate relative to the base plate, a plurality of channels formed in said second plate in alignment with the buttons of said switches, a card-receiving slot formed in said second plate, and a card formed with a plurality of openings received in said slot.

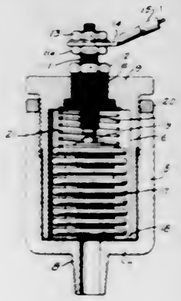
2,662,945
ELECTRIC SWITCH
Reginald William James Cockram, London, England, assignor to The Pyrene Company, Limited, Brentford, England, a company of Great Britain
Application September 16, 1950, Serial No. 185,215
Claims priority, application Great Britain September 19, 1949
12 Claims. (Cl. 200—61.48)

1. An inertia switch comprising, in combination, a housing, a cup, a disc and two supports of substantially equal resilience connecting said cup and disc to said housing, said cup and disc being of substantially equal mass but having different transverse moments of inertia and said supports being so arranged that when said housing is at rest said disc lies concentrically within said cup and when said housing is subject to acceleration in a plane perpendicular to the longitudinal axes



of said cup and disc, said cup and disc become displaced both linearly and angularly relatively to said housing.

2,662,946
FLUID PRESSURE SENSITIVE SWITCH
Joseph Schweiss, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application August 23, 1950, Serial No. 181,066
2 Claims. (Cl. 200—83)



1. In a fluid pressure sensitive electrical switch device, comprising an outer casing member including a base portion formed with a medial inlet opening and a tubular wall portion, the inner face of said base being substantially flat throughout, said tubular wall portion being of uniform internal diameter and provided with internal threads at its upper end, an expansible chamber element within said casing, said expansible chamber element being of generally tubular corrugated form and having a laterally projecting annular base flange resting upon the inner flat face of the base of the outer casing member adjacent its tubular wall and about the inlet opening, an internal casing member of tubular form having a closed upper end, the upper end of said casing being formed with a laterally projecting annular shoulder normally overlying the upper end face of the outer chamber, the upper portion of said inner casing being formed with an exteriorly threaded area terminating at said outwardly projecting flange and the bottom portion of said internal casing being of reduced diameter for free longitudinal movement within the annular outer casing and between the casing and said expansible chamber, the bottom face of said internal casing being flat and of a diameter to overlie and engage the outer upper marginal surface of the flange of the expansible chamber to form a seal between the expansible chamber and the bottom face of the external casing, a coil spring member normally seating about the top marginal portion of the expansible chamber for engage-

ment with the inner face of the internal casing to resist the movement of the expansible chamber when the inner and outer casings are assembled, a contact element threaded through and insulated from the top of the inner chamber for adjustment with respect to the top of said expansible chamber, a contact point arranged medially of the expansible chamber and carried thereby, said contact point being in axial alignment with the adjustable contact element in the top wall of the outer casing, whereby said contacts are positioned for adjustment when the parts are assembled and said expansible chamber expands or contracts, and lock means carried by the threaded portion of the internal casing member for securing the casing members in position.

2,662,947

COMBINATION FUSE CUTOUT AND SWITCH

William D. Kyle, Jr., Milwaukee, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware

Application April 25, 1951, Serial No. 222,849
3 Claims. (Cl. 200—114)



1. A circuit interrupter and recloser comprising in combination an insulating support including relatively spaced first and second terminals, a manually operable circuit closer movably supported by said support for movement successively between open circuit position to a normal circuit closing position, and from said normal circuit closing position after circuit interruption to a circuit reclosing position, said closer when in normal circuit closing and reclosing positions having a first contact engaging said first terminal and a second contact engaging said second terminal, a dual characteristic fuse carried by said closer and electrically connecting said contacts when said closer is in its normal circuit closing position, and a switch member carried by said closer and normally in open circuit position when said closer is in normal circuit closing position and movable with said circuit closer to circuit closing position between said terminals when said closer is moved to said circuit reclosing position, said dual characteristic fuse comprising two fusible sections in series relation when said closer is in its normal circuit closing position, one of said sections responsive to ambient temperatures of predetermined value produced by over-load currents in said one section and the other of said sections responsive to abnormal surge currents in said other of said sections in excess of a predetermined value.

2,662,948

MULTIPOLE CIRCUIT BREAKER

Paul M. Christensen, West Orange, N. J., assignor to Federal Electric Products Company, Newark, N. J., a corporation of Delaware

Application August 24, 1950, Serial No. 181,223
33 Claims. (Cl. 200—116)



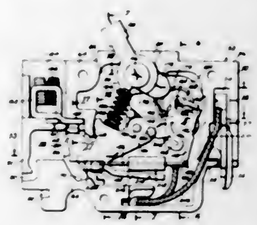
1. A multi-pole circuit breaker having a circuit breaker mechanism for each pole thereof, said mechanisms each having a movable contact member, actuating means and a flexible member bodily carried by and movable with said contact member and operable to latch said actuating means to the contact member and to unlatch the same by deflection of the flexible member, said actuating member being pivotally mounted on said contact member and moving relative thereto upon the tripping thereof to a predetermined disposition relative to the companion flexible member, and means interconnecting said actuating means to concomitantly move in one operation all of said mechanisms to the closed condition thereof from the tripped disposition thereof.

2,662,949

MULTIPOLE CIRCUIT BREAKER

Paul M. Christensen, West Orange, N. J., and Alexander R. Norden, New York, N. Y., assignors to Federal Electric Products Company, Newark, N. J., a corporation of Delaware

Application August 24, 1950, Serial No. 181,224
25 Claims. (Cl. 200—116)



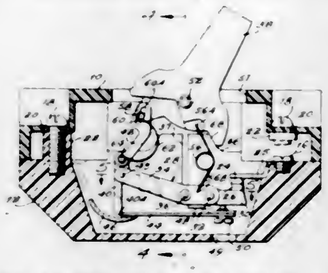
1. In a multi-pole circuit breaker having a circuit breaker mechanism for each circuit, each mechanism being biased for movement from the circuit-closed condition to the circuit-open condition thereof, means inter-engaging said mechanisms and releasably retained from movement relative thereto in the circuit-closed condition thereof, said interengaging means including means operative thereupon for biasing said mechanisms in said circuit-closed condition in opposition to the first mentioned bias thereon, and means for effecting relative movement between said inter-engaging means and said mechanisms upon the occurrence of a predetermined current in one of said circuits whereby to relieve said opposing bias sufficiently for said circuit breakers to be moved to the circuit-open condition thereof.

2,662,950

AUTOMATIC CIRCUIT BREAKER

Paul Martin Christensen, West Orange, N. J., assignor to Federal Electric Products Company, Newark, N. J., a corporation of Delaware

Application June 29, 1951, Serial No. 234,297
22 Claims. (Cl. 200—116)



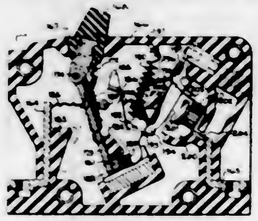
1. In an automatic circuit breaker having a stationary contact, a movable contact member having a contact engageable with and disengageable from said stationary contact, a current responsive latch, and an actuator mounted on said contact member and operatively connected thereto, under the control of said latch, for closing the circuit breaker, that improvement which comprises means cooperating with said actuator to form a toggle which when in overset relationship holds said contact member in its closed circuit position, a pivotal axis of said toggle being constituted by a lost motion connection, and said means being operable upon said lost motion connection when said actuator is latched to said movable contact member for biasing the latter whereby to provide for proper contact pressure between said contacts in the closed condition of the circuit breaker.

2,662,951

ELECTRIC CIRCUIT BREAKER

William D. Boller, Milford, Ohio, Warren D. Berkley, Fort Wayne, Ind., Walter Ernst, Dayton, Ohio, and Edwin W. Landmeier, Covington, Ky., assignors to The Wadsworth Electric Mfg. Co., Covington, Ky., a corporation of Kentucky

Original application June 10, 1948, Serial No. 32,204, now Patent No. 2,618,716, dated November 18, 1952. Divided and this application February 16, 1952, Serial No. 274,245
4 Claims. (Cl. 200—116)



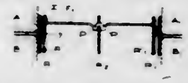
1. A circuit breaker comprising, a casing, a manually operable lever pivotally mounted in said casing, a plate rigidly embedded in said lever and projecting from the end thereof within said casing, a contact carrier pivotally mounted on said plate, a pivotally mounted rocker, cooperable contacts respectively carried by said rocker and said contact carrier, a tension spring extending from said contact carrier to said casing, the pivot point at which the contact carrier is connected to said plate being shiftable in response to movements of said manually operable lever to respective over-center positions in relation to said spring for actuation of the contact carried by said carrier toward and from the contact carried by said rocker, the said rocker being biased for independent disengagement with the contact carrier, latch means releasable in response to overload conditions for restraining the rocker against contact disengagement movement, the said rocker having a resetting ear, plate members embedded in said operating lever at opposite sides of the plate member thereof to which the contact carrier is pivotally mounted, and a bar member extending across the latter said plate members in position to engage the resetting ear of said rocker upon actuation of said manually operable lever following release of said rocker by said latch means.

2,662,952

CIRCUIT INTERRUPTING FUSE

Jean Nivoix, La Plaine Saint-Denis, France, assignor to Societe Anonyme dite: Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France, a corporation of France

Application September 10, 1951, Serial No. 245,805
Claims priority, application France
September 22, 1950
5 Claims. (Cl. 200—120)



1. A circuit-interrupting fuse having terminal contacts, a fusible element with free portions extending between said contacts, insulating refractory plates disposed between said contacts and provided with perforations through which said element passes, said portions being laterally offset from said perforations, said element being provided with a plurality of spaced bends defining rectilinear portions therebetween arranged at an angle relative to said free portions, and each of said rectilinear portions being in contact with a lateral surface of one of said refractory places, whereby the points where an arc, engendered upon fusion of said free portions, may reach said refractory plates are spaced from the perforations in said plates.

2,662,953

FUSE HOLDER

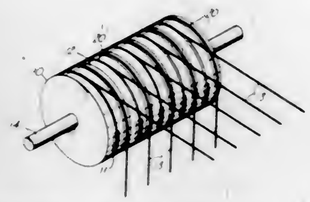
Ray C. Barker, Wichita, Kans.

Application May 4, 1953, Serial No. 352,823
6 Claims. (Cl. 200—133)



1. In a fuse holder comprising a hollow container of material having elastic and insulating properties, a pair of spaced electric contact members carried in the container, an electric conductor secured to each contact member and extending outwardly from the container, said container having an opening in a wall thereof for insertion therethrough of a fuse into said container, and a fuse held under compression between and in engagement with said contact members by stress resulting from an elongation of the container when the fuse is forcibly inserted between said contact members.

2,662,954
ROTARY ELECTRICAL SWITCH
Dale W. Snow, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware
Application May 2, 1952, Serial No. 285,735
1 Claim. (Cl. 200—155)



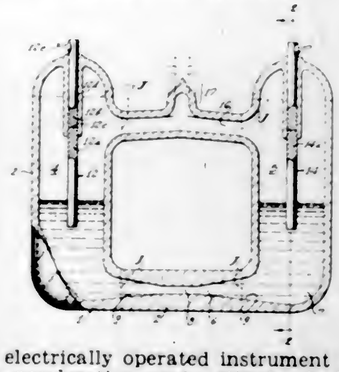
An electrical current switching device for mounting on a shaft singly or with other similar devices for controlling the distribution of electrical power comprising a shaft; a shaft insulator; a brush contacting slip ring on the insulated shaft; a brush contacting switching segment on the insulated shaft, spaced from and in a plane parallel to the plane of the slip ring; a conducting disc spacer on the insulated shaft between the slip ring and switching segment; and a plastic body molded around the slip ring, switching segment, and conducting spacer, with grooves formed in the plastic to guide brushes that contact the slip ring and switching segment as the switching device rotates.

2,662,955
ADJUSTABLE IMPEDANCE, FOR EXAMPLE ADJUSTABLE RESISTORS
Johannes Erkelens, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 18, 1952, Serial No. 283,035
Claims priority, application Netherlands June 13, 1951
2 Claims. (Cl. 201—56)



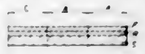
1. A variable resistor comprising an insulated supporting rod, a helical winding on said supporting rod, a movable adjusting member being provided with a plurality of holes therein disposed in a predetermined curved path, said member being positioned adjacent to said supporting rod, a contact wire for engaging said helical winding at a plurality of separate points on said winding depending upon the position of said adjustable member, means for securing said contact wire on said adjusting member along the curvilinear line formed by said curved path, said means comprising a plurality of pins in said holes, said pins being tapered and split axially in the larger ends thereof, the larger ends of said pins being adapted to be wedged in said holes with said contact wire being clamped in the split ends of said pins substantially perpendicular thereto so that a portion of the peripheral surface of said contact wire projects beyond the larger ends of said pins and forms said predetermined curved path.

2,662,956
MANOMETRIC ACCELEROMETER
Robert E. Bareford, Burbank, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application May 3, 1952, Serial No. 285,961
8 Claims. (Cl. 201—57)



1. An electrically operated instrument for indicating acceleration and attitude, including: chambers formed of insulating material and spaced from one another in a horizontal plane; conduit means connecting the lower portions of said chambers, said conduit means adapted to be filled and said chambers to be partly filled with electrolyte; and separate electrode means rigidly mounted in said chambers and projecting into the electrolyte when placed in the instrument in each chamber to an extent dependent on the vertical displacement of the electrolyte in the chambers so that the resistance of an electric path including said electrode means and electrolyte is varied by the extent to which the electrode means are immersed in the electrolyte.

2,662,957
ELECTRICAL RESISTOR OR SEMI-CONDUCTOR
Paul Eisler, London, England
Application October 23, 1950, Serial No. 191,629
36 Claims. (Cl. 201—73)

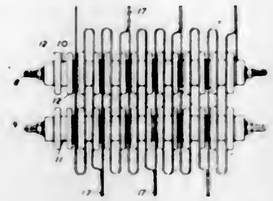


1. A novel article of manufacture in form of a multi-layer stock for the manufacture therefrom of a plurality of electrical resistors and printed circuits containing resistors and comprising an insulating support, at least one layer of electrical resistance material adhering to the support and having an area in excess of the area of all resistors to be made from the stock, and a layer of a highly conductive material adhering to the resistance material and in intimate electrical contact therewith.

2,662,958
ELECTRICAL RESISTANCE UNIT
Theodore Nicholas Flight, Farnham Common, and William Harry Wilson, Camberley, England, assignors to The Rheostatic Company Limited, Slough, England, a British company
Application February 20, 1951, Serial No. 211,866
Claims priority, application France February 20, 1950
5 Claims. (Cl. 201—74)

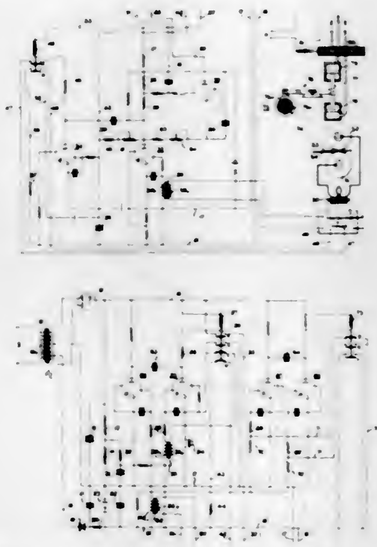
1. An electrical resistance unit comprising a series of interconnected resistance elements

forming a resistance grid, each element formed from a strip of resistance material bent flatwise so as to form an S-shaped strip viewed edgewise of this strip, the adjacent ends of adjacent S-shaped resistance elements being welded together to provide a continuous electrical path, a support strip welded to each element and projecting from the plane of the grid, a metal tie-rod extending



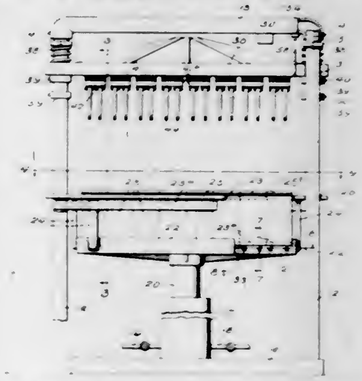
through the support strips, interlocking cylindrical insulators mounted on the tie-rod for insulating the rod from the support strips associated therewith, and spaced flanges on the insulators between which the convolutions of the resistance elements extend for supporting said elements against vibration, said tie-rod extending parallel to the resistance grid in a direction opposite to that of the convolutions of the elements.

2,662,959
ELECTRONIC SEQUENCE CONTROL FOR INTERMITTENT OPERATION OF ROTARY ELECTRODE WELDING APPARATUS
Joseph J. Riley and Richard Alm, Warren, Ohio, assignors to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio
Application February 11, 1952, Serial No. 270,932
8 Claims. (Cl. 219—4)



8. In a sequence control circuit for use with electric resistance welding apparatus of the type adapted to perform a plurality of spaced welds in controlled time sequence and including actuating means for effecting indexing movement of welding electrodes between succeeding welds and where the magnitude of said indexing movement may be adjusted; the combination of a weld contactor having means to time the duration of a weld, energizing means for said weld contactor, a control device for said actuating means, and control means to operate said control device to cause indexing movement of said electrodes between succeeding ones of a plurality of welds, said energizing means including adjustable time delay means adapted a predetermined time after operation of said control device to energize said contactor.

2,662,960
MACHINE FOR BONDING AND DEBONDING BRAKE SHOE LININGS
Jennings B. Williams, Tulsa, Okla.
Application April 4, 1952, Serial No. 280,487
14 Claims. (Cl. 219—19)



1. In a bonding machine of the class described, a frame, a platform mounted on said frame for vertically guided movement, hydraulic means for moving said platform, mold supporting plates carried by said platform, molds carried by said plates, and pairs of spaced electrical contact members supported within the frame in vertical alignment with respective molds.

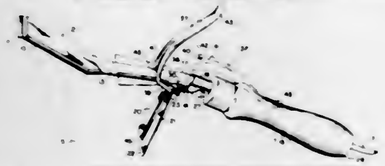
2,662,961
EI ECTRICALLY INTERNALLY HEATED STEERING WHEEL
Betty Martin Sargent, Bridgehampton, N. Y.
Application August 8, 1952, Serial No. 303,221
2 Claims. (Cl. 219—19)



1. An internally heated, thermally regulated steering wheel comprising a metal reinforced wheel, two pairs of insulated electrical heating cables of approximately equal length, one cable of each pair being mounted on diametrically opposite sides of said wheel along the entire periphery of the wheel, said heating cables com-

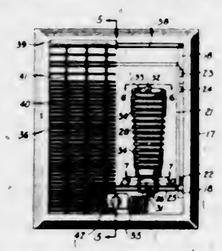
prising resistance wire insulated with siliceous insulation and covered with metallic braid, a source of electrical energy to heat said two pairs of cables, a switch to cut said electrical energy source on and off, a thermostat connected to one pair of heating cables provided with manual regulating means to control the heating in said pair of heating cables, the heating in said other pair of cables controlled by said switch, and a plastic covering encasing said heating cables and said wheel adapted to uniformly warm the wheel.

2,662,962
SUPPORT FOR ELECTRICALLY HEATED TOOLS
Robert H. Green, Rocky River, Ohio, assignor, by mesne assignments, to The Otto Konigslow Mfg. Co., Cleveland, Ohio, a corporation of Ohio
Application November 2, 1950, Serial No. 193,724
9 Claims. (Cl. 219—21)



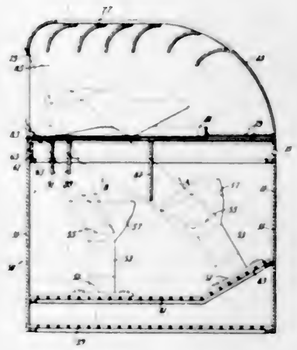
1. In combination with a paint removing tool having an electrically heated blade at one end, a handle at the other end and a tubular shank connecting the heated portion and handle, means for holding said heated blade out of contact with a supporting surface comprising a stand pivoted on an axis extending transversely of said shank, said stand being made up of a support disposed beneath said shank and a handle portion rigidly joined to said support and disposed above said shank, said stand being movable about its pivot between an open position in which said support projects downwardly beneath said tool to support the heated blade thereof above a surface on which the tool is resting and in which said handle portion projects upwardly from said tool, and a closed position in which said support lies along said shank and in which a part of said handle portion overlies and substantially conforms to a portion of said handle, spring means tending to rotate said stand about its pivot from closed to open position, and stop means to locate said stand in open position and to limit said rotation.

2,662,963
ELECTRIC AIR HEATER
Melvin H. Wessel, Chattanooga, Tenn., assignor to Cavalier Corporation, Chattanooga, Tenn., a corporation of Tennessee
Application August 7, 1950, Serial No. 178,010
16 Claims. (Cl. 219—34)



1. An air heater comprising a wall box having an open front and adapted to be secured in an opening in a wall, a pair of fulcrums at each side and at least one tab on one side supported by said wall box, a heat deflector in said wall box pivotally supported by said fulcrums for swinging outwardly through the open front of said wall box, at least one heating element supported by said deflector and at least one stop secured to said deflector for engaging said tab to limit the swinging of said deflector.

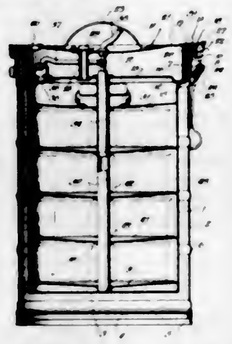
2,662,964
APPARATUS ADAPTED FOR HEATING SHOES
Ernest Harry Simms, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 26, 1950, Serial No. 164,357
Claims priority, application Great Britain July 9, 1949
3 Claims. (Cl. 219—35)



1. In apparatus of the class described, an enclosure comprising a housing formed with an aperture and a cover pivoted to said housing for movement into and out of covering relation with said aperture, said enclosure being formed with an opening for inserting a shoe to be heated, an infrared radiation-passing platform-like work support carried by and beneath said cover for movement therewith from a position in which the support lies horizontally over the aperture to a position in which the support is raised clear of said aperture for providing access to the interior of said enclosure, said support being arranged for receiving, bottom down and between the support and the top of the cover, a shoe inserted through said opening, and a source of infrared radiation disposed in said housing and arranged to radiate through said aperture toward said support.

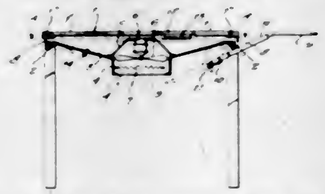
2,662,965
PORTABLE FOOD CONTAINER
Glenn C. Becker, Chicago, Ill., assignor to Vacuum Can Company, Chicago, Ill., a corporation of Illinois
Application September 26, 1950, Serial No. 186,868
4 Claims. (Cl. 219—35)

1. A container of the class described comprising a receptacle, a rack removably fitting within said receptacle for supporting food or other material in vertically stacked arrangement within the receptacle, said rack having a portion provided with an axially located, vertically extending recess substantially coaxially with the vertical axis of said receptacle, a cover for closing the upper end of said receptacle, temperature control means carried by said cover, and heat disseminating means carried by said cover in depending relation thereto and adapted to enter said axial recess in said portion of the rack when the cover is in place on said receptacle, said heat dis-



seminating means being energized by operation of said temperature control means to supply heat to the interior of the receptacle when containing said rack loaded with material.

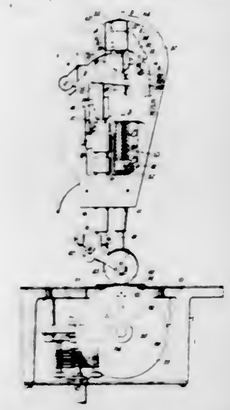
2,662,966
ELECTRIC TABLE
Werner Bruchhausen, Dortmund, Germany
Application April 17, 1952, Serial No. 282,815
Claims priority, application Germany May 7, 1951
19 Claims. (Cl. 219—39)



1. An electric table, comprising, in combination, a table plate having an edge portion; a wall forming an air channel arranged underneath said table plate, said channel having a first opening located centrally underneath, and at a distance from, said table plate, said channel and said edge portion defining a second opening with each other; a fan arranged in said air channel above said first opening thereof; and a reversible electric motor driving said fan so as to rotate the same in opposite directions, whereby said fan when driven by said electric motor in one direction sucks air into said channel through said first centrally located opening thereof and discharges the air through said second opening defined by said channel and said edge portion whereas said fan when driven by said electric motor in the opposite direction sucks air into said channel through said second opening defined by said channel and said edge portion and discharges the air through said centrally located first opening of said channel.

2,662,967
BONDING MACHINE
Ellsworth B. Snyder, Somerville, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application July 3, 1948, Serial No. 36,907
9 Claims. (Cl. 219—47)

1. In an electronic seaming machine having a frame including a work-support, means including an electrode movable toward and from said work-support for establishing a very high frequency electric field, a work-thickness detecting member disposed for engagement with work in the region of said field, a stop-member fulcrumed upon



said frame and controlled by said detecting member in accordance with variations in the thickness of the work, and a member carried for movement with said electrode and cooperating with said stop member to limit movement of said electrode towards said work-support.

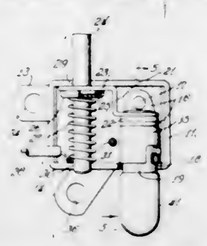
2,662,968
FLASHLIGHT LAMP
Peter Saraber, Goslar, Germany
Application March 7, 1951, Serial No. 214,261
Claims priority, application Germany May 2, 1950
3 Claims. (Cl. 240—1.3)



1. A flashlight-photography flash gun comprising a cylindrical barrel adapted to house current-storing and supplying means, a lamp holder at one end of said barrel adapted to support and hold a lamp externally of the latter, a cylindrical outer casing surrounding said barrel and spaced therefrom around the longitudinal external wall periphery thereof, said outer casing being partly cut-away at its end adjacent the lamp holder to provide a tapered guideway having opposite edges inclined to the longitudinal axis of the casing from positions spaced substantially more than 180° to a terminus in the front of the casing and said casing having a longitudinal slot in a part of its wall section of maximum length, a reflector of elastic metal foil housed in the space between the barrel and the outer casing, with its central longitudinal axis immediately adjacent said slot, said reflector having upwardly inclined opposite edges coacting with the inclined edges of said guideway, and a stud

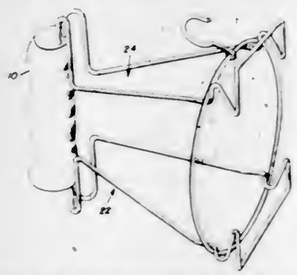
secured to said reflector on the longitudinal axis of the latter and protruding through said slot to the exterior of the outer casing for moving the reflector longitudinally from its housing to a position adjacent the lamp holder, and vice versa, said upwardly inclined edges of said reflector and the downwardly inclined edges of said guideway coacting through a camming action to control the unrolling and rolling-up of said reflector.

2,662,969
GLOVE COMPARTMENT LIGHT
Thomas I. Thompson, Chicago, Ill.
Application October 22, 1949, Serial No. 123,000
3 Claims. (Cl. 240—7.1)



1. A door operated light and switch unit of the class described comprising a casing having a reciprocable switch operating plunger projecting from the front thereof, said casing having a top wall with fixed mounting means thereon which projects outwardly therebeyond at the rear of the casing and is adapted to be secured to the underside of an overlying support, and a relatively flat mounting arm which overlies and is pivoted at one end to the top wall of the casing to move in a plane close to and substantially parallel with said top wall, said pivoted mounting arm having the other end thereof projecting outwardly beyond the casing and pivotally movable toward and beyond the front of the casing and adapted to be secured to the underside of an overlying support.

2,662,970
TROUBLE LIGHT
Ralph E. Zediker, Buffalo, N. Y.
Application August 18, 1952, Serial No. 305,031
4 Claims. (Cl. 240—54)



4. A holder for supporting a sealed beam type lamp comprising a longitudinal handle member having a pair of longitudinal bores therethrough, clamping members mounted in each end of said bores, each of said clamping members including a length of wire constituting converging leg portions joined by a bight portion, the free ends of said leg portions being arranged in parallel angular relation to said leg portions and received in the ends of the bores, lamp engaging seats adjacent the outer ends of said legs, laterally directed feet members at the extremities of said legs, the bight of said wire constituting a spacing member for said feet, shoulders on said legs adjacent said seats, a clamping ring engageable with said shoulders for retaining said seat members in clamping engagement with a sealed beam type lamp.

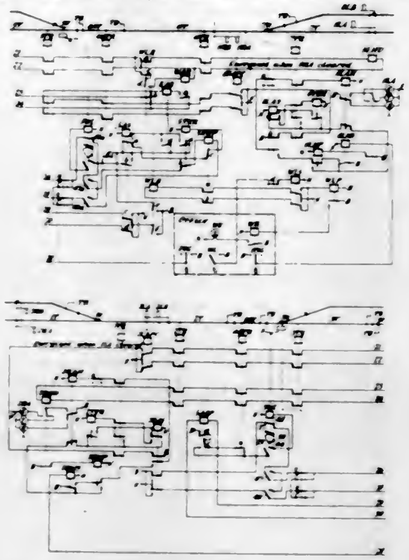
2,662,971
CODED TRACK CIRCUIT SIGNALING SYSTEM
James Y. Howard, Greece, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application July 15, 1949, Serial No. 104,901
15 Claims. (Cl. 246—33)



1. In a coded track circuit signalling system for a stretch of single track divided by means of insulated joints into a plurality of track sections, driven code transmitters located at alternate joints for applying driven code pulses to each track section adjoining said alternate insulated joint, said driven code transmitting means being continuously active to transmit in both directions away from said alternate joints, irrespective of the presence of trains, and irrespective of the direction of traffic, and inverse code transmitting means located at the remaining alternate joints for applying inverse codes to each track section adjoining said remaining alternate joints, whereby the codes traveling in a particular direction along said single track stretch are in consecutive track sections alternately of the driven and inverse type.

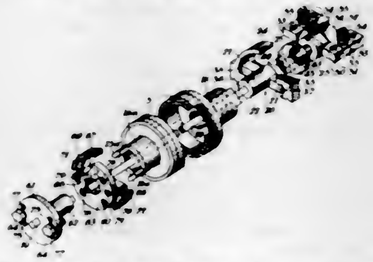
2,662,972
APPARATUS FOR THE CONTROL OF ELECTRIC SWITCH LOCKS IN CENTRALIZED TRAFFIC CONTROL SYSTEMS FOR RAILROADS
George L. Trout, Painesville, Ohio, assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application June 29, 1949, Serial No. 102,074
9 Claims. (Cl. 246—161)

1. In combination with a stretch of single track railroad having block signals at its opposite ends for governing traffic movements through the stretch in accordance with traffic conditions therein, each signal having the usual approach locking relay associated therewith the energization of which indicates that such signal is at stop, said stretch including a hand throw switch equipped with an electric lock; a switch lock relay, a time element relay, and a stick relay, a circuit manually controllable from one end of the stretch only when the adjacent approach locking relay is energized for operating said switch lock relay, a circuit closed in response to the operation of said switch lock relay when the approach locking relay at the other end of the stretch is energized, for energizing said time element relay, a circuit closed by said time element relay when energized for a predetermined time interval for energizing said stick relay, and a circuit pre-



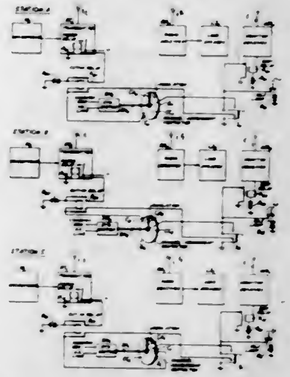
pared by said stick relay when energized for enabling said electric lock to be energized to unlock said switch.

2,662,973
SELF-RESTORING DRAGGING EQUIPMENT DETECTOR
Kenneth J. J. McGowan, Pittsburgh, and Robert A. Woods, Verona, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application February 24, 1950, Serial No. 146,098
25 Claims. (Cl. 246—246)



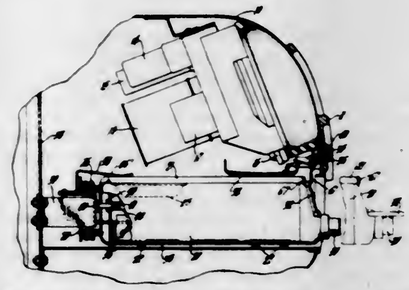
1. In a dragging equipment detector, the combination comprising a tubular member, supporting means for pivotally mounting said member transversely of a path of vehicular travel, detector plates fixed to said tubular member, a biasing member substantially coextensive with and within said tubular member, limit stops on said supporting means, and means on said biasing member cooperating with said tubular member and said limit stops to maintain said detector plates in a normal position in which an object dragging from a passing vehicle traversing said path will engage said plates and angularly displace said plates from their normal position, the angular displacement of said detector plates increasing the bias of said biasing member for returning said plates to their normal position after being engaged by the dragging object.

2,662,974
ARRANGEMENT FOR SINGLE-CHANNEL TIME SHARING
Louis A. Dorff, Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 19, 1949, Serial No. 128,309
4 Claims. (Cl. 250—6)



1. A system for preventing interference due to simultaneous operation of a plurality of radio transmitters all operating on the same frequency and associated with different stations of a common radio system comprising at each station a monitor receiver for waves emitted by any of said transmitters, a primary control circuit for energizing the transmitter at that station, means responsive to the output of the monitor receiver for disabling said primary control circuit only when the associated transmitter is idle, and an auxiliary control circuit interconnecting all stations of said system including at each station a periodically operating switch, the switch at each station being adjusted to operate at a different time and being effective in the absence of output from said monitor receiver periodically to complete the primary control circuits for the respective transmitters in predetermined order.

2,662,975
COMBINATION RADIO RECEIVER
Bertram A. Schwarz, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 23, 1951, Serial No. 207,274
11 Claims. (Cl. 250—14)



9. A combination radio receiver comprising, in combination: a first unit and a second unit; said first unit being removably mounted adjacent said second unit and having electric circuit means therein including signal amplifying means, de-

tecting means and a first power amplifier having a first speaker coupled thereto; said second unit having electric circuit means therein including a second power amplifier having a second speaker coupled thereto; a single set of tuning controls for said combination receiver common to both of said units; and means for readily removably connecting said first unit electrically to said second unit including switch means for alternatively connecting said detecting means to either of said power amplifiers and their speakers.

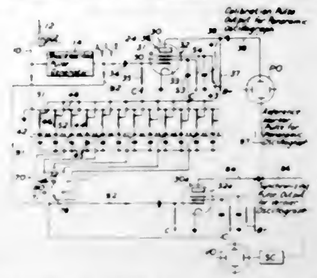
2,662,976
SEMICONDUCTOR AMPLIFIER AND RECTIFIER
Jacques I. Pantchechnikoff, Princeton, N. J., now by change of name Jacques Isaac Pankove, assignor to Radio Corporation of America, a corporation of Delaware
Application March 31, 1949, Serial No. 84,671
4 Claims. (Cl. 250—20)



1. A semiconductor system comprising a body of semiconducting material, a first electrode having a relatively large contact area with said body, at least second, third and fourth electrodes, each having a contact area with said body that is small compared to that of said first electrode and being spaced from each other, said fourth electrode being spaced from both said second and third electrodes a distance that is so much larger than the distance between said second and third electrodes as to prevent substantially the flow of charge carriers between said fourth electrode on the one hand and said second or third electrode on the other hand, said first and fourth electrodes forming a rectifier section, said first, second, and third electrodes forming an amplifier section, a coupling impedance connected between said first and second electrodes interconnecting and in common circuit with said rectifier and amplifier sections, means for applying a signal to said rectifier section, and means for deriving an output signal from said amplifier section.

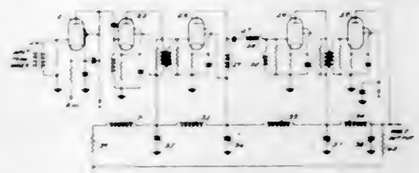
2,662,977
RADIO IMPULSE SYSTEM FOR OSCILLOGRAPH CALIBRATION
Louis A. De Rosa, Bloomfield, N. J., assignor to International Telephone and Telegraph Corporation, a corporation of Maryland
Continuation of application Serial No. 467,948, December 5, 1942. This application March 23, 1950, Serial No. 151,509
13 Claims. (Cl. 250—20)

1. A method of generating in response to a synchronizing impulse a plurality of calibration pulses comprising producing in synchronism with said impulse a first series of pulses having a given spacing between adjacent pulses, deriving from energy of the synchronizing impulse a series of discrete pulse components, retarding said pulse components different multiples of the spaces between the pulses of said first series, and mixing the two series of pulses so that the second series of pulses add to those pulses of said first series



corresponding in time to provide a calibration pattern.

2,662,978
LOGARITHMIC TRANSDUCER
David E. Sunstein, Cynwyd, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application June 11, 1946, Serial No. 675,848
9 Claims. (Cl. 250—20)

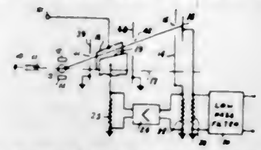


1. In an electrical signal transducer for use with modulated carrier wave signals, a series of cascaded amplifying stages for said modulated signals, means for causing each of a plurality of said stages to function as a detector in response to modulated signals in excess of a predetermined level in said stage to yield a separate detected output, a delay line terminated in impedances adapted to minimize reflections therein and having thereon a series of spaced taps, means supplying said detected outputs produced by successive stages of said series of stages to successive taps of said delay line, said delay line providing a delay between each pair of successive taps thereof which is substantially equal to the inherent signal delay existing between those points in said amplifying stages from which separate detected signals are supplied to said pair of delay line taps, and means deriving from said delay line an output signal which is substantially proportional to the sum of the outputs of said stages which function as detectors.

2,662,979
ELECTRIC PULSE SIGNALING SYSTEM
Leslie Ivan Farren and Norman Edwin Head, Sudbury, Wembley, and Maurice Moise Levy, Earls Court, England, assignors to The General Electric Company, Limited, London, England
Application February 3, 1949, Serial No. 74,395
Claims priority, application Great Britain February 4, 1948
8 Claims. (Cl. 250—27)

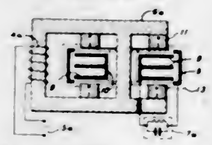
1. Apparatus for demodulating time-modulated pulses comprising a cathode ray tube, an apertured electron-intercepting member, a collecting electrode for collecting electrons passing through the aperture in said member, means for deflecting the cathode ray beam recurrently along

a path alongside of said aperture, further means to deflect the cathode ray beam in a direction transverse with respect to said path, means to apply said time-modulated pulses to said further means to cause said cathode ray beam to



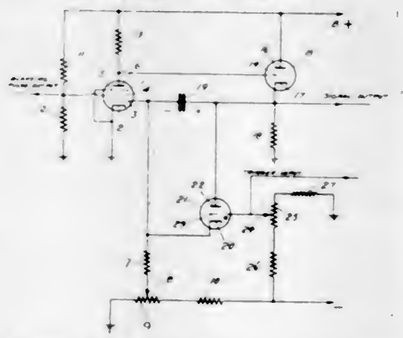
traverse an edge of said aperture and a feedback circuit comprising means to derive a voltage in response to each traversal of said edge by said beam and means to apply said voltage to deflect said beam in a sense assisting said time-modulated pulses.

2,662,980
ROTATRON-ELECTRICAL TRANSDUCER
Otto G. Schwede, Camarillo, Calif.
Application July 25, 1950, Serial No. 175,842
10 Claims. (Cl. 250—27)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Apparatus for controlling the flow of electrical energy comprising an envelope, a plurality of spaced electrode structures therein including a source of charged particles and an anode, means for creating an electric eddy field intermediate said source and said anode, means for preventing said first mentioned means from creating a magnetic field intermediate said source and anode, and a load impedance connected between components of said electrode structures such that an electric counterfield is created intermediate said source and anode to decelerate said particles, and thereby extract electrical energy therefrom.

2,662,981
WAVE FORM GENERATING CIRCUITS
Carl A. Segerstrom, Winchester, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application October 4, 1950, Serial No. 188,426
5 Claims. (Cl. 250—27)



1. A wave-form generating circuit comprising an electron-discharge device having a cathode, a control grid, and a plate, a circuit connecting said plate to said control grid for feeding signals therebetween comprising a capacitance, means for discharging said capacitance comprising a gaseous electron-discharge device having a cathode, a grid, and a plate, the plate and cathode of said gaseous electron-discharge device being connected to opposite sides of said capacitance, and the grid of said gaseous electron-discharge device being connected to a control voltage source.

2,662,982
PULSE SYNCHRONIZING CIRCUITS
Matthew William Baker, Blackheath, London, and Derek Anthony Underwood Rush, Ealing, London, England, assignors to The Sperry Gyroscope Company Limited, Brentford, England, a British company
Application February 19, 1951, Serial No. 211,606
14 Claims. (Cl. 250—27)



1. Apparatus for producing a series of recurrent high-power electrical pulses in a predetermined time relationship with recurrent low-power primary signals, said apparatus comprising a source of recurrent low-power primary signals, a relay device for providing high-power pulses in response to triggering pulses, controllable delaying means for deriving said triggering pulses from said primary signals after a time delay that may be varied by means of a control quantity, means for producing reference signals delayed with respect to said primary signals by a fixed accurately determined interval, a timing comparator for comparing said reference signals and said high-power pulses, said comparator generating an error signal indicative of the time interval between said reference signals and said high-power pulses and means for controlling said controllable delaying means in accordance with said error signal to bring said high-power pulses substantially in synchronism with said reference signals thereby to compensate for variable systematic delays.

2,662,983
SINGLE TUBE BINARY COUNTER
Bernard M. Gordon, Philadelphia, Pa., assignor to Eckert-Mauchly Computer Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application June 9, 1951, Serial No. 230,790
8 Claims. (Cl. 250—27)



1. In signal responsive apparatus, in combination, an electric valve, said valve having anode,

cathode and grid elements, a first gate connected to said anode, a second gate connected to said cathode, and circuit components associated with said gates and elements and effective to apply a pulse alternately to said anode and said cathode.

2,662,984

CRYSTAL CONTACT DEVICE

Emrys Gwynne James, Pinner, and Aubrey Oscar Edgar Lindell, Southgate, England, assignors to The General Electric Company Limited, London, England

Application January 27, 1950, Serial No. 140,892
6 Claims. (Cl. 250—31)



1. A crystal contact device for use at a radio frequency, said device comprising a hollow metal cylinder, a collar whose inner surface is metallic, said collar being disposed wholly within the metal cylinder, the outer surface of said collar being in contact with the juxtaposed portion of the inner surface of the cylinder over the entire length of the collar, said inner surface of the collar being effectively electrically connected to the cylinder at said radio frequency, a crystalline element and associated supporting member, and a cooperating metal member and associated supporting member, said supporting members being of disc form and situated one against each end of the collar, said crystalline element, said cooperating metal member and said associated supporting members being disposed wholly within the metal cylinder, and said crystalline element and said cooperating metal member being disposed wholly within the collar.

2,662,985

RADIATION-ABSORPTION TYPE LIQUID LEVEL INDICATOR

James A. Good, Grosse Pointe, Mich., assignor to Diamond Power Specialty Corporation, a corporation of Ohio

Application September 24, 1948, Serial No. 50,908
1 Claim. (Cl. 250—43.5)



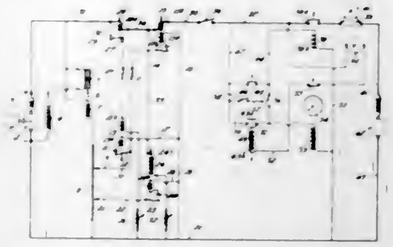
In combination with a liquid-containing vessel within which liquid normally stands at an intermediate level, a liquid level gage comprising a radiator of sub-atomic energy, a signal generator including an ionization chamber, said radiator and ionization chamber being arranged at different elevations in the liquid-containing vessel corresponding to positions above and below the normal liquid level therein, and with the chamber positioned within the field of radiation emanating from the radiator, an infinitely variable indicator responsive to the rate of ionization in said chamber wherein the radiator is arranged above the normal liquid level in said vessel and the chamber below such level, an electronic oscillator having an input portion operatively coupled to the signal generator, said oscillator being arranged to generate an infinitely variable output signal proportional to the rate of ionization in said chamber, means for delivering such output signal to the indicator, and a compensating ionization chamber also arranged above the normal liquid level in said vessel and within the radiation field of the radiator, whereby changes of vapor pressure in the vessel above the liquid therein may influence the rate of ionization in the compensating chamber, said compensating chamber also being operatively coupled to the oscillator to modify the output thereof in response to variances of vapor pressure.

2,662,986

STARTING UNIT, MORE PARTICULARLY FOR INTERNAL-COMBUSTION ENGINES, AND METHOD OF OPERATING SAME

André Louis Vintenon, Bois-Colombes, France, assignor to Electrom, Neuilly-sur-Seine, Seine, France, a company

Application July 8, 1952, Serial No. 297,610
Claims priority, application France July 13, 1951
8 Claims. (Cl. 290—4)



1. A method for supplying the electric current to the electrical starter of an internal combustion engine, more particularly for turbo-jet engine, by means of a starting generator driven by a starting engine, comprising, in succession, the steps of controlling before starting the tension of the current supplied by the generator to have a constant tension equal to the necessary tension value at the beginning of the starting operation, then, when the starting operation begins, of controlling the current supplied by the generator to have a constant intensity equal to that necessary for performing the starting operation while the tension of said supplied current increases, and, when said tension attains the value of the final tension for the starting operation, of controlling the tension of the supplied current to said final value.

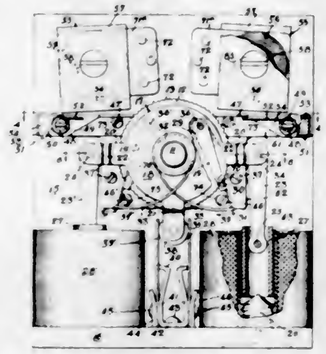
2,662,987

ELECTRIC PULSE OPERATED MOTOR

Lee B. Johnson, Los Angeles, Calif.

Application July 18, 1951, Serial No. 237,457
11 Claims. (Cl. 310—34)

1. In a reversible pulse motor, a ratchet wheel having peripheral teeth, a pawl carrier mounted for oscillating movement about the axis of said ratchet wheel, a pair of pawls each having one end pivotally connected to said carrier and having at its other end a jaw to engage the ratchet teeth, means yieldingly biasing said pawls normally into driving engagement with said teeth, a pair of pulse actuated driving means for oscillating said carrier in opposite directions, stop means for the respective pawls, each positioned to be engaged by a non-driving pawl to deflect the same outwardly to clear the teeth of said ratchet wheel while the other pawl is driving the ratchet wheel in response to actuation of said carrier by a pulse, a pair of holding pawls, each



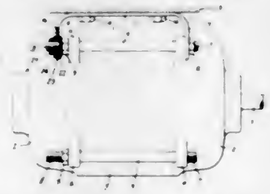
normally engaging said ratchet wheel to resist rotation thereof in a respective direction, and pulse operated means for releasing from its engagement with the ratchet wheel that holding pawl which would, if engaged, prevent rotation of the ratchet wheel by the driving pawl, whereby to release the ratchet wheel for rotation.

2,662,988

BASE FOR MOTORS

James A. McKim, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application July 15, 1948, Serial No. 38,923
5 Claims. (Cl. 310—91)



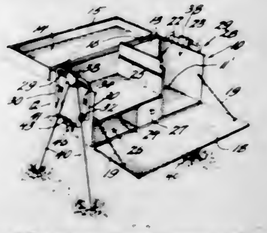
1. A machine comprising a frame member, a longitudinal mounting member secured to said frame member and having its ends positioned respectively on the exterior of said frame member and spaced from the outer periphery thereof, a base member for said machine having a portion adapted to be mounted on an external surface and two supporting portions for engaging the ends of said mounting member, one of said portions having an opening formed therein with one end of said mounting member being arranged therein, the other of said portions having a slotted opening formed therein with its neck portion being larger than the other end of said mounting member and its interior portion being substantially larger than said neck portion, washer means having an outside dimension larger than said neck portion of said slotted opening, said washer means being positioned on said other end of said mounting member and seated within said interior portion of said slotted opening whereby the weight of said machine in any position is supported by said base member through said washer means in said slotted opening and said machine can be removed without removing said base or said mounting member, and fastening means on the ends of said mounting member for holding said one supporting portion and said washer means in place.

2,662,989

COMBINED PORTABLE TABLE AND CABINET

Charles A. Thatcher, Medford, Oreg.

Application October 26, 1951, Serial No. 253,326
8 Claims. (Cl. 312—255)



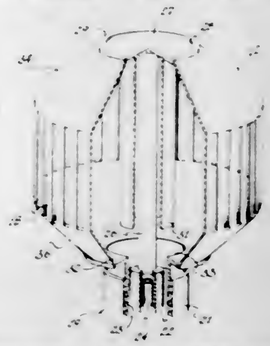
1. A portable structure comprising a cabinet having end walls, a bar adjacent and parallel to each end wall adjacent the top thereof, each bar having depending arms at its ends secured to the associated end wall, and a leg structure connected to each bar, each leg structure comprising a pair of leg elements normally diverging downwardly and extending below the associated end wall to support said cabinet, each leg structure further comprising a connecting element slidable and rotatable on each of said bars, each pair of leg elements being pivotally connected at their upper ends to one of said connecting elements to swing outwardly from each other to diverge downwardly, and to swing inwardly toward each other to positions in close proximity, the rotatable connection of each connecting element to its associated bar providing for the swinging of each leg structure upwardly and inwardly over the top of said cabinet.

2,662,990

RESNATRON FILAMENT BASKET

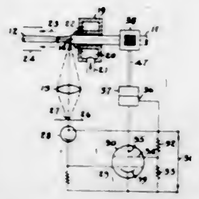
Walter H. Kohl, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application September 21, 1950, Serial No. 186,038
6 Claims. (Cl. 313—341)



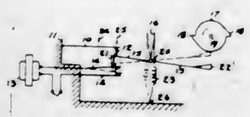
1. A resnatron filament basket comprising, a cylinder which is formed with a plurality of slots in the central portion and has both ends necked-down, a coaxial base member with the outer portion attached to one end of said cylinder, a center post extending up from the center portion of said base member, a disc attached to the upper end of said center post, and its edges attached to the upper end of the cylinder.

2,662,991
ARC LAMP REGULATING DEVICE
Edgar Gretener, Zurich, Switzerland
Application December 29, 1949, Serial No. 135,619
Claims priority, application Switzerland December 30, 1948
8 Claims. (Cl. 314—20)



1. In a regulating device for high intensity arc lamps, a frame member, a negative electrode, a positive electrode, air projecting means surrounding said positive electrode said positive electrode protruding substantially from said air projecting means toward said negative electrode, said air projecting means directing from the rear towards the arcing end of said positive electrode an air blast which surrounds the arc discharge as a substantially concentric hollow tube of air slightly converging towards said negative electrode, concentrating the anode flame coaxially with said electrode and causing said arc to burn with a substantially flat positive crater disposed at right angles to the axis of the carbon and yielding a critical light distribution characteristic curve having a peak ordinate with a value at least twice that of the effective base thereof and providing a high contrast of brilliancy at the separation edge of said positive electrode between said electrode and said arc said high contrast separation edge being unobstructed by said air projecting means, radiation sensitive means, radiation condensing means mounted to focus an image of the said separation edge on said sensitive means, and carbon positioning means controlled by said radiation sensitive means, whereby the position of said separation edge with respect to said frame member is maintained with great precision.

2,662,992
THERMOMECHANICAL CONTROL SYSTEM
Hans Jakob Frey, Zollikon, Switzerland, assignor to Edgar Gretener, Zurich, Switzerland
Application December 29, 1949, Serial No. 135,625
27 Claims. (Cl. 314—63)



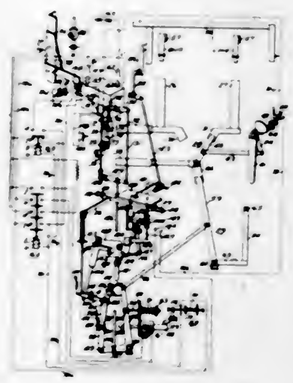
1. In a control system, a device to be controlled, circuit means for said device, a movable arm pivoted so as to assume an operative position in which it affects said circuit means to operate said device and to assume a second position in which said device does not operate, means to move said arm from one position to the other with snap action, bimetal means arranged to act upon said arm to cause it to assume said operative position and cyclic means arranged to repeatedly test the position of said arm, said cyclic means contacting said arm for test purposes, only when said arm is in said operative position whereby to move said arm to said second position abruptly when said bimetal means moves more than a predetermined distance from said arm.

2,662,993
ELECTRON DISCHARGE DEVICE AND SYSTEM
Louis Malter, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 10, 1950, Serial No. 148,976
14 Claims. (Cl. 315—341)



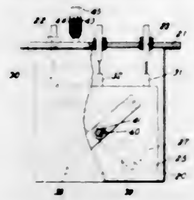
1. An electron discharge device, comprising an enclosing envelope, an ionizable medium within the envelope for supporting a discharge therein, concentric and coaxial cathode and anode in spaced relationship within said envelope, a substantially cylindrical blocking grid having a discharge opening formed therein and positioned between said cathode and anode, said blocking grid being coaxial with said cathode, and an elongated trigger grid having a relatively small surface area with respect to said blocking grid and extending in said discharge opening.

2,662,994
GROUNDING AND TESTING DEVICE FOR METAL CLAD SWITCHGEARS
John F. Chipman, South Weymouth, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application September 28, 1951, Serial No. 248,749
10 Claims. (Cl. 317—113)



1. In combination, an electric circuit, two switches each controlling said circuit and each having a movable circuit controlling contact member, mechanisms for individually actuating the movable contact member of each of said switches to circuit controlling positions, and means for simultaneously locking said movable circuit controlling contact member of one of said switches in a circuit controlling position and preventing the actuation of the mechanism for moving the other of said movable contact members.

2,662,995
ELECTROLYTIC CAPACITOR AND METHOD OF FORMING THE ELECTRODES THEREOF
Julius Edgar Lilienfeld, St. Thomas, V. I.
Application August 25, 1950, Serial No. 181,426
5 Claims. (Cl. 317—230)



1. An electrolytic condenser comprising a plurality of electrodes at least one of which is filmed, insulating means over opposite faces of a filmed electrode, and marginal insulating spacers between the respective insulating means to provide a channel therebetween for accommodating freely the filmed electrode, and means to exert pressure only upon the marginal spacers for integrating the elements into an individual assembly.

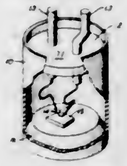
2,662,996
MAGNETIC PICKUP
Edward J. Martin, Pleasant Ridge, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 16, 1951, Serial No. 211,323
6 Claims. (Cl. 317—172)



1. A magnetic pickup comprising a magnet, a plurality of fine wires of magnetically permeable material constituting a core for said pickup, said core being generally coaxial with the magnet and having one end positioned against the adjacent pole face of said magnet, and a winding of electrically conductive material coiled around said core and electrically insulated therefrom, segments of said winding being axially separated one from another and from said pole face of the magnet by generally coaxial insulating spacers having central apertures in which the core is positioned.

2,662,997
MOUNTING FOR SEMICONDUCTORS
Howard Christensen, Springfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 23, 1951, Serial No. 257,890
10 Claims. (Cl. 317—239)

1. In a combination, a semiconductor body of material selected from the group including germanium and silicon, and a metallic base member to which said body is bonded, the material of said base member having a thermal coefficient of expansion of about the same value as that of the



body over the temperature range to which the combination is subjected in manufacture and use.

2,662,998
ELECTRIC MOTOR CONTROL FOR SHAFT POSITIONING SYSTEMS
Robert F. Witters, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application January 5, 1951, Serial No. 204,672
7 Claims. (Cl. 318—33)

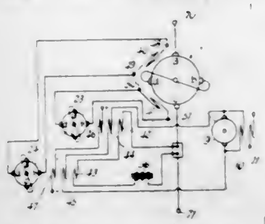


1. Anti-null apparatus for preventing a null position being obtained while switching from a first to a second control switch formed with a plurality of segments about their periphery and a rotary contact engageable therewith and said contacts being narrower than the distance between adjacent segments comprising, a plurality of contacts between said segments engageable by said rotary contacts when they are between segments, a motor control circuit comprising a pair of motor control switches and having a plurality of peripherally engaging contacts adjacent thereof with each contact adjacent the first of said motor control switches electrically connected to a segment on the first and second control switches, each of said peripheral contacts on said second motor control switch electrically connected to the contacts between segments on said first and second control switches, and said motor control circuit connected to the rotary contact of the first or second control switch.

2,662,999
ELECTRIC MOTOR OF THE METADYNE TYPE
Joseph Maximus Pestarini, Staten Island, N. Y.
Application November 4, 1946, Serial No. 707,699
6 Claims. (Cl. 318—327)

2. An electric system comprising a direct current source, a motor metadyne comprising a plurality of stator windings, an armature having two non-consecutive primary brushes per cycle connected to said direct current source, two secondary brushes per cycle, said secondary brushes being substantially short circuited through at least one of said stator windings, another of said stator windings having less ampere turns than the ampere turns of said armature and being adapted to be traversed by a current proportional

to the primary current of said motor metadyne and creating a flux component having its magnetic axis coincident with the primary commutating axis of said motor metadyne and opposing and less than the flux created by the primary armature ampere turns, another stator winding adapted to create a flux component having its magnetic axis coincident with the secondary com-

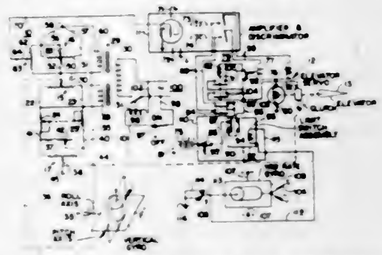


mutating axis of said motor metadyne, means for supplying a controlled current to said last mentioned stator winding, the stator windings short circuiting the secondary brushes creating a flux proportional to and in the same direction as the flux created by the secondary armature ampere turns and further creating a flux proportional to the secondary current and inducing an electromotive force between the secondary brushes opposing said secondary current.

2,663,000
DUAL VOLTAGE SWITCHING DEVICE
Hubert Lee Keith, Mishawaka, Ind.
Application January 2, 1952, Serial No. 264,475
2 Claims. (Cl. 318—440)

1. For use in a three phase motor of the type wherein each of the phases has a first and second coil with each of the coils having an inner and an outer end, the outer ends of said first coils being connected to the conductors of a supply line, the inner ends of said second coils being connected to determine the mode of operation of the motor, a voltage selector comprising an insulating base plate, first, second and third group of contacts mounted in said base plate, the contacts of each group being arranged in a line, said groups being equally spaced, the outer ends of said first coils being connected to said first group of contacts, the outer ends of said inner coils being connected to said second group of contacts, a fourth group of contacts, said fourth groups of contacts being arranged intermediate said second and third group of contacts, the inner ends of said first coils being selectively connected to said third or fourth group of contacts, a switch plate slidably mounted on said base plate, means limiting motion of said switch plate with respect to said base plate, said switch plate being movable a distance equal to the distance between said first and second groups of contacts in said base plate, five groups of switch contacts in said first plate, said groups of switch contacts being spaced apart one-half the distance between the first and second groups of contacts in said base, connectors connecting the respective contacts of the first, second and third switch contacts together, connectors connecting the fourth group of switch contacts in advanced progression with respect to the contacts of the third group of switch contacts, conductors connecting the fifth group of switch contacts in short circuited relation.

2,663,001
VARIABLE LIMIT SWITCH ASSEMBLY
George W. Rusler, Jr., and Robert C. Burggren, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 13, 1952, Serial No. 314,518
17 Claims. (Cl. 318—489)

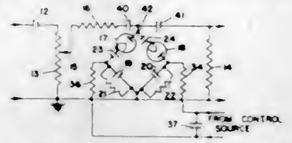


1. Apparatus for controlling a servomotor operating a control surface of an aircraft to maintain a predetermined condition of flight of the aircraft, comprising, a servomotor for controlling the position of said control surface of said aircraft, power circuit means for energizing said servomotor, a control circuit means operative upon an indication of a need for operating said servomotor to maintain the predetermined condition of flight of the aircraft for controlling the operation of said power circuit means, limit switch means including cam means and a pair of limit switches adapted to be operated thereby, means connecting said cam means to said servomotor to be operated directly thereby, means drivingly connecting said limit switches to said servomotor including a spring and viscous damper with different ratio gearing driving each of said switches, said gearing rotating said switches relative to one another and to said cam in proportion to the allowable travel limits of said control surface for said predetermined condition of flight of the aircraft, said limit switch means being adapted to further control the operation of said power circuit means.

2,663,002
ATTENUATOR FOR SEISMIC GAIN CONTROL
Louis B. McManis and Jack R. Cooper, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application June 20, 1950, Serial No. 169,176
3 Claims. (Cl. 323—23)

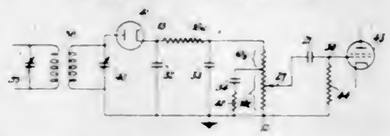
1. In an attenuator circuit comprising a pair of signal-transmission leads, at least one series resistance in and at least one shunt resistance between said leads, at least one of said resistances

comprising a variable-resistance bridge circuit having two thermionic diodes connected in series in one branch of the bridge, a pair of condensers connected in series in the other branch of said bridge, a resistance connected in parallel with each condenser, a source of unidirectional control current connected across the diagonal of said bridge between the diode-to-condenser junction points, the resistance of said bridge across the other diagonal (from the junction point of said condensers to the junction point of said diodes)



being the variable resistance of said attenuator circuit, direct-current bias voltage means in series with said diodes and combining with said unidirectional control current to operate said diodes at all times in the electron initial velocity region, the improvement comprising means substantially completely isolating said diode junction point for direct current, whereby substantially identical direct currents flow through said diodes, said isolating means possessing at signal frequencies an impedance low compared to said resistances.

2,663,003
ADJUSTABLE POTENTIOMETER
Franklin G. Landis, Kenmore, N. Y., assignor, by mesne assignments, to Sylvania Electric Products Inc., New York, N. Y., a corporation of Massachusetts
Application April 16, 1949, Serial No. 87,896
14 Claims. (Cl. 323—74)



14. An adjustable potentiometer comprising, a planar member of relative rigid thin sheet dielectric material having a large dielectric constant, resistive material of open-ring shaped configuration supported in engagement with one planar surface of said member and exhibiting substantial electrical resistance between its ends, and a pivoted electrically conductive member supported in insulated relation to at least the major length of said resistive material and including a portion engaging the opposite planar surface of said dielectric member and movable in an arc along said resistive material in opposing relation thereto, said dielectric member providing substantial capacitive coupling between said conductive member and that area of said resistive material which at any time lies in opposing relation to said portion of said conductive member.

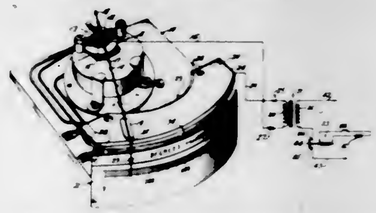
2,663,004
METHOD FOR DETERMINING THE SIZE OF A SUBSURFACE ORE BODY
Harold O. Seigel, Jerome, Ariz., assignor to Newmont Mining Corporation, New York, N. Y., a corporation of Delaware
Application March 15, 1952, Serial No. 276,894
2 Claims. (Cl. 324—10)

1. A method for determining the approximate size of a sub-surface ore body which method comprises establishing an intersection through the ore body, maintaining a current flow of fixed magnitude through the earth between two current electrodes, the first current electrode being spaced a relatively short predetermined distance from one side of the ore body, and the second current electrode being spaced a large distance from the ore body and from the said first electrode measuring the resulting voltage across a pair of pick-up electrodes, the first pick-up electrode being spaced from the opposite side of the ore body a distance equal to the similar spacing



of the said first current electrode and the second pick-up electrode being spaced a large distance from either of the current electrodes and from the said first pick-up electrode; uniformly increasing the spacing of the said first current electrode and the said first pick-up electrode from the proximate sides of the ore body and again measuring the resulting voltage across the pick-up electrodes, the spacing at which the resulting voltage approaches that to be expected for barren rock being indicative of the approximate size of the ore body.

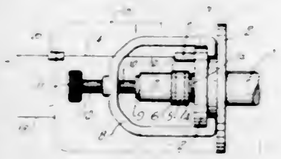
2,663,005
ELECTRIC POINTER CLAMP FOR INDICATING INSTRUMENTS
Alfred A. Obermaier, Park Ridge, Ill., assignor to Illinois Testing Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application May 19, 1951, Serial No. 227,195
8 Claims. (Cl. 324—155)



8. In an electric pointer clamp for indicating instruments, the combination of a support with an electrical instrument movement carried thereby, and having a movable element, said movable element carrying a resilient pointer, a scale plate, scale divisions, and indicia cooperating with said pointer to indicate the movement of the pointer, an arcuate electric conducting plate carried by said support and located closely beneath the sweep of the pointer, an electric conducting vane carried by said pointer adjacent to but out of contact with said plate, a thin, light electrical conductor extending along said pointer and connected to said pointer vane, a source of high potential direct current connected to said conductor and to said conducting plate, and a thin layer of insulation carried by said conducting plate on its face for preventing a short circuit between the vane and conducting plate, and switching means for controlling the application of said direct cur-

rent, the direct current charging the vane and plate with static charges of opposite polarity, causing the vane to be attracted to the plate, the resilient pointer bending, and the vane coming into tight frictional engagement with the insulating layer on said plate to hold the pointer in the position in which it is indicating relative to the scale until released by release of the charges carried by said vane and plate.

2,663,006
CRYSTAL MOUNTING FOR DELAY LINES
Walther M. A. Andersen, Hartford, Conn., assignor to Crystal Research Laboratories, Inc., Hartford, Conn., a corporation of Connecticut
Application November 19, 1948, Serial No. 61,079
4 Claims. (Cl. 333—30)



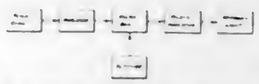
1. A crystal mounting comprising a solid delay line, a piezoelectric crystal vibrating in a shear mode transversely in respect of the longitudinal dimension of said delay line, a first metal foil interposed as a bond between said crystal and said delay line, a dielectric member, a second metal foil interposed between said crystal and said member, a clamp attached to said delay line and screw means arranged on said clamp to exert pressure upon said member whereby said assembly of foils, crystal and member are maintained under pressure against said delay line.

2,663,007
ELECTRIC PLUG AND SOCKET COUPLING
Ernst Diessl, Braunschweig, Germany
Application October 27, 1950, Serial No. 192,434
Claims priority, application Germany
October 31, 1949
2 Claims. (Cl. 339—49)



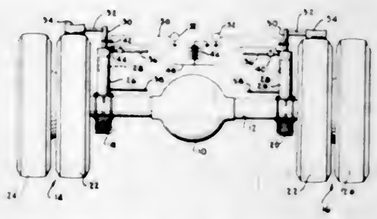
1. Contact connector for electric conductors consisting of two identical coupling members displaceable one into the other in the manner of claws, each coupling member comprising two identical halves of insulating material, each half including at least two tongues in juxtaposition and disposed in different planes and mutually offset by the thickness of a tongue, a contact spring carried by at least one of the tongues of each half and lying within the confines of the tongues, the spring being carried on that side of the tongue opposite to which lies a tongue of the other half spaced at a tongue thickness, so that each coupling member of the contactor has tongues mutually offset by a tongue thickness to lie in four superposed planes, said tongues enclosing between themselves at least two contact springs so that when two coupling members are pushed together slide claw-like between the tongues of the other coupling member, and the contact springs of one coupling member sliding on the contact springs of the other coupling member.

2,663,008
GYROSTABILIZED CARRIER AIRCRAFT APPROACH LIGHT INDICATOR
Archibald John McEwan, United States Navy
Application June 8, 1950, Serial No. 166,951
8 Claims. (Cl. 340—27)
(Granted under Title 35, U. S. Code (1952), sec. 266)



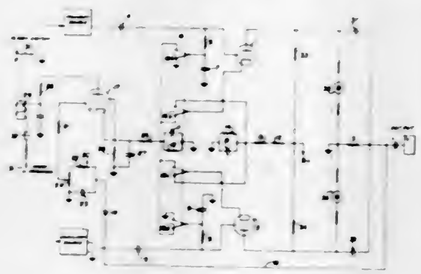
2. In apparatus of the character disclosed for use on aircraft for indicating to an operator the attitude of the aircraft, in combination, manually adjustable means including a gyroscope for obtaining an A.-C. signal having an amplitude proportional to the amount of deviation of the aircraft pitch angle from a predetermined angle, phase sensitive means having said A.-C. signal applied thereto and constructed and arranged to supply two D.-C. signals which vary in amplitude with respect to each other selectively in accordance with the direction of deviation from said predetermined pitch angle, differential relay means having two pairs of contacts adapted to be selectively closed in accordance with the direction of the flow of current through the relay means, said differential relay means having said two D.-C. signals applied thereto, three lamps, a source of potential, additional relay means having one set of contacts and having said two signals applied thereto and adapted to be energized to close the contacts thereof when the difference in the signal amplitudes attains at least a predetermined value, blinker circuit relay means having contacts and having the energization thereof controlled from the contacts of said additional relay means, and circuit means connecting the contacts of both said polarized and blinker relay means and said source of potential to all said lamps whereby a first one of said lamps is energized while there is substantially no deviation from said predetermined pitch angle, a second one of said lamps is energized while the pitch angle varies in one direction, and the third one of said lamps is energized while the pitch angle varies in the other direction, said blinker circuit relay means when energized causing said lamps to blink at a predetermined rate.

2,663,009
DEFLATED TIRE WARNING DEVICE
Thomas J. Finan, Detroit, Mich.
Application January 10, 1952, Serial No. 265,906
4 Claims. (Cl. 340—58)



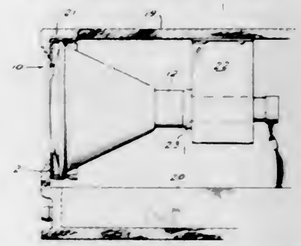
1. A warning device for use with a vehicle having a wheel suspended therefrom and a tire thereon to indicate when such tire becomes soft, comprising a rotatable roller engaging said tire, a spindle extending axially through the center of said roller at one end, a cylinder adapted for attachment to the vehicle structure, a piston disposed in said cylinder and engaged with said spindle at its other end so that said spindle extends laterally away from said cylinder, said cylinder being disposed in a fluid circuit so that pressure may be exerted upon said piston to hold said piston in engagement under pressure on said tire, and indicating means adapted for actuation by the linear movement of said spindle which is effected by a soft tire lessening the resistance to said roller.

2,663,010
SWITCHING SYSTEM
John H. Brundage, Cocoa, Fla., assignor to International Telephone and Telegraph Corporation, a corporation of Maryland
Application February 1, 1952, Serial No. 269,486
8 Claims. (Cl. 340—253)



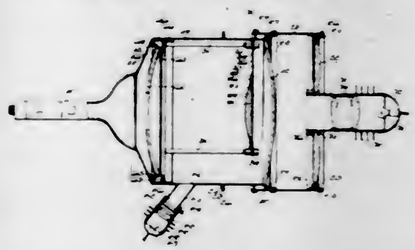
1. An electrical switching system comprising primary and auxiliary sources of electrical energy, an output circuit, and means for alternatively coupling said sources of energy to said output circuit whereby the primary source feeds the output circuit during normal operation of the system and the auxiliary source feeds the output circuit upon faulty operation of the primary source, said means comprising a pair of conductive devices having their outputs connected to the output circuit, each of said devices having at least two elements, the primary source of energy being connected to a first element of one of said devices and the auxiliary source being connected to a first element of the other conductive device, a trippable device controlling the sequence of operation of said conductive devices said trippable device having at least two elements, a biasing circuit coupled from a first element of said trippable device to said first element of said one device and to the second element of said other device, means coupled to the first element of said other device rendering it normally non-conductive, a connection from said output to the second element of the trippable device whereby a portion of the output energy is applied thereto, the biasing circuit being adjusted for biasing said one device conductive and said other device non-conductive while the primary source is delivering a normal signal to said output circuit, and upon said primary source delivering a faulty signal, said trippable device being tripped and producing a change in the biasing circuit whereby said one device is rendered non-conductive and said other device is rendered conductive and as a result thereof, the output circuit is switched from the primary source to the auxiliary source, and means for untripping said trippable device whereby the change in the bias circuit is removed and the supply sources are switched to their original connections.

2,663,011
CATHODE-RAY TUBE SUPPORT
Marvin F. De Boy, Buffalo, N. Y., assignor, by mesne assignments, to Sylvania Electric Products Inc., New York, N. Y., a corporation of Massachusetts
Application July 6, 1949, Serial No. 103,304
3 Claims. (Cl. 340—367)



1. A support for the flared end of a cathode-ray tube comprising, a unitary relatively rigid open-box-like cap structure of rectangular configuration and of only slightly resilient electrical insulating sheet material for insertion over the face of said tube as a cap and having a portion for engaging said face to provide longitudinal positioning of said tube and side portions which extend over and engage the rim of said flared end to support said end of said tube while restraining it against substantial lateral movement, a tube supporting member and means for affixing said cap structure to said member, and means secured to said member for supporting the rear end of said tube and for cooperating with said cap structure to position said tube.

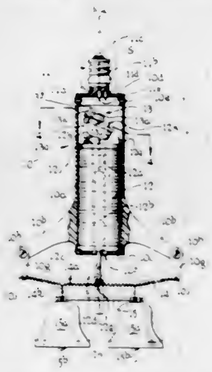
2,663,012
PROJECTION TELEVISION TUBE
John R. Beers, Briarcliff Manor, N. Y.
Application January 30, 1952, Serial No. 269,047
13 Claims. (Cl. 340—370)



1. A television tube of the projection type including in combination: an envelope having a tubular metal section closed at one end by a non-refracting glass disc having a metal-to-glass seal thereto, a second tubular metal section closed at one end by a tapered portion and a glass neck; an electron gun in said neck; a prefocused optical unit including a perforated spherical mirror and a phosphor coated spherical target, means for permanently securing the said mirror to the second envelope section adjacent said tapered portion, a spider mounting said target and having legs extending to substantially the wall of said first envelope section, rods fixed in said mirror securing means and extending to support said spider, means to adjustably secure each spider leg to one of said rods to adjust the focus of the unit, each of said envelope sections having a radial flange at the end op-

posite from its closure, said flanges abutting and being welded together peripherally at a portion remote from the mirror, target and closure glass to seal the tube assembly.

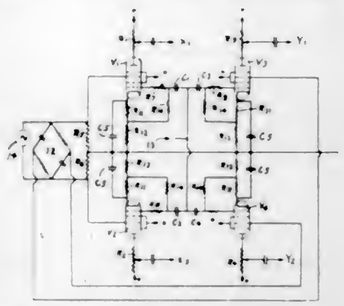
2,663,013
CHRISTMAS TREE BELL RINGING INSTRUMENT
Frederic L. Bronson, Copiague, N. Y., assignor to Raylite Electric Corp., Bronx, N. Y., a corporation of New York
Application January 14, 1950, Serial No. 138,584
9 Claims. (Cl. 340—398)



2. In a decorative electrically operated bell-ringing device of the character described including solenoid magnet coil having an axial bore and permeable armature mounted to reciprocate in said axial bore, a switch mounted along the path of movement of said armature connected in circuit with said magnet coil, an extension of the armature operatively connected to move the switch for making and breaking the circuit energizing said coil, a hammer fitting mounted for movement by said armature to be projected in a path beyond said coil, said fitting being in a striking position with respect to a sounding bell of said device, a casing for housing the magnetic coil and switch, spaced apart arms extending from said casing between which the path of movement of said fitting projects, and a resilient support anchored to and stretched in tension between said arms for supporting said sounding bell in the path of said fitting movement.

2,663,014
POSITION INDICATING SYSTEM
John Edward Godeck, London, England, assignor to A. C. Cossor Limited, London, England, a company of Great Britain
Application December 5, 1940, Serial No. 368,743
Claims priority, application Great Britain December 5, 1939
14 Claims. (Cl. 343—11)

1. Apparatus for indicating the instantaneous distances and angular bearings of bodies from an origin in space comprising means to transmit a succession of signals from the origin, means to receive at the origin echoes of the signals from said bodies, at least one of said means being directional and rotatable, a cathode ray tube having deflection control means to produce deflection of the beam thereof in two mutually perpendicular directions, a deflection control circuit comprising four electron tubes each having an injection grid and a control grid, the output circuits of said tubes being connected to the deflection controls of said cathode ray tube, a source of sine wave voltage varying in timed relation with the rotation of said directional means, means for applying to the injection grids of said tubes sine wave voltages from said source in predetermined phase relations to produce rotation of the cathode ray beam in synchronism with the rotation of said directional means,



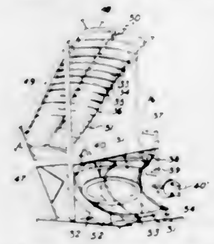
means for applying to the control grids of said tubes upon the transmission of each signal a voltage increasing progressively in value from substantially zero to a predetermined value whereby the said beam is deflected radially of its normal axis, and means controlled by said echo receiving means for producing a variation in intensity of said cathode ray beam at the instant of receipt of an echo.

2,663,015
OBJECT LOCATION SYSTEM EMPLOYING LOGARITHMIC TRANSDUCER
David E. Sunstein, Cynwyd, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Original application June 11, 1946, Serial No. 675,848. Divided and this application December 24, 1947, Serial No. 793,741
5 Claims. (Cl. 343—13)



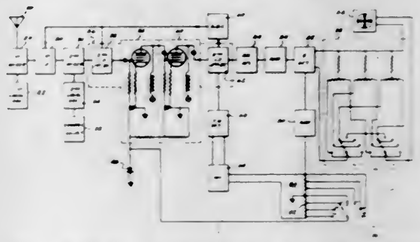
1. In a radar system for transmitting time-spaced pulses of high frequency energy and receiving reflections of said pulses from target objects, the intensity of received reflected pulses varying as a function of both the range and reflectivity of the targets producing them, a receiver for said reflected pulses, said receiver including a detector for demodulating reflected pulses modulated upon a high frequency carrier, a transducer included in said receiver at a position anterior to the output circuit of said detector, means for coupling signals proportional in intensities to the intensities of said received reflected pulses to the input circuit of said transducer, said transducer being so constructed and arranged that the intensities of signals produced in its output circuit are substantially proportional to the logarithms of the intensities of said signals applied to its input circuit, and an indicator coupled to the output of said receiver and responsive to variations in the intensity of signals supplied to it from said receiver.

2,663,016
MICROWAVE ANTENNA
Guerric de Pillot de Coligny, Versailles, France
Application December 28, 1949, Serial No. 135,482
Claims priority, application France December 29, 1948
5 Claims. (Cl. 343—101)



1. An antenna adapted to lay down a plurality of radio frequency energy beams of similar directivity properties and having coplanar axes angularly inclined to each other, said antenna comprising a plurality of radiators capable of emitting radiation of the same carrier frequency, said radiators being located at spaced points along an arc of a circle, and a plurality of metallic reflector elements, said elements having each a substantially paraboloidal reflecting surface, said surfaces conforming to portions of successive paraboloids of a family of paraboloids of revolution having a common focus on said circle and having a common axis of revolution, the vertices of said paraboloids being spaced from each other by integral multiples of one-half the wave length of electromagnetic energy corresponding to said frequency, said surfaces having in a common meridian plane of said paraboloids a small extension on either side of the intersections with said paraboloids respectively of the perpendiculars to said paraboloids drawn from the center of said circle.

2,663,017
GLIDE PATH SELECTOR FOR BLIND LANDING SYSTEMS
John Charlton, New York, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application September 26, 1951, Serial No. 248,420
11 Claims. (Cl. 343—108)

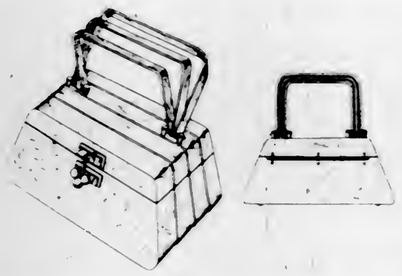


1. An aircraft instrument-landing receiver adapted to produce an indication of the relative position of the aircraft with respect to an electromagnetically defined reference path, said receiver including an intermediate frequency amplifier, a frequency modulation detector coupled to the output of said amplifier, a bistable multivibrator triggered by the output signal of the frequency modulation detector, said multivibrator generating a square wave reference voltage, a step-type grounded centerpoint attenuator, opposite ends of the attenuator being respectively coupled to opposite phases of the multivibrator, and a selector switch for tapping off an attenuated square wave signal of either phase from the attenuator, said switch coupling the attenuated square wave signal to at least one stage of the intermediate frequency amplifier for modulating the gain of said amplifier.

DESIGNS

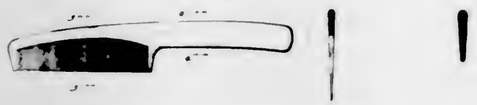
DECEMBER 15, 1953

171,072
HANDBAG
Sheldon J. Aberman, Miami Beach, Fla.
Application August 6, 1953, Serial No. 26,298
Term of patent 3½ years
(Cl. D87—3)



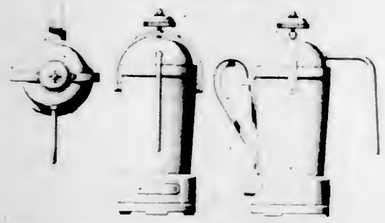
The ornamental design for a handbag, substantially as shown and described.

171,073
COMB
Harry L. Athens and Otto W. Risto, Valparaiso, Ind.
Application June 22, 1953, Serial No. 25,586
Term of patent 14 years
(Cl. D86—8)



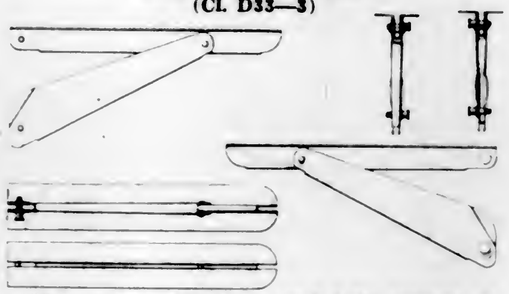
The ornamental design for a comb, as shown and described.

171,074
COFFEE MAKER
Antonio Balboni, Ferrara, Borgo Uccelli, Italy, assignor to Calcenter Trading Corp., Fresno, Calif., a corporation of California
Application February 10, 1953, Serial No. 23,545
Term of patent 14 years
(Cl. D44—26)



The ornamental design for a coffee maker, as shown and described.

171,075
SHELF BRACKET
Ralph J. Bellon, Chicago, and Irwin J. Ferdinand, Glencoe, Ill.
Application June 5, 1952, Serial No. 20,055
Term of patent 14 years
(Cl. D33—3)



The ornamental design for a shelf bracket, as shown.

171,076
SPOON OR SIMILAR ARTICLE OF FLATWARE
Milton Bernstein, New York, N. Y.
Application February 18, 1953, Serial No. 23,682
Term of patent 14 years
(Cl. D54—12)



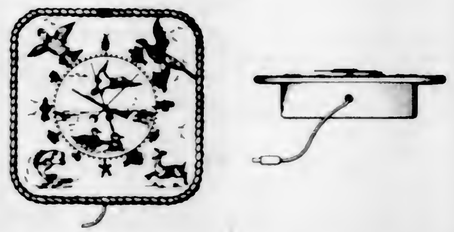
The ornamental design for a spoon or similar article of flatware, as shown and described.

171,077
ADJUSTABLE BROOCH OR SIMILAR ARTICLE
Marcel Boucher, Eltingeville, N. Y.
Application July 10, 1953, Serial No. 25,866
Term of patent 7 years
(Cl. D45—19)



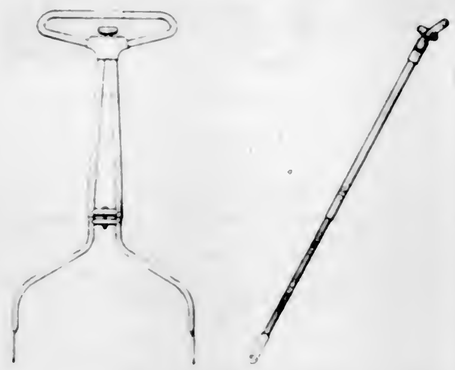
The ornamental design for an adjustable brooch or similar article, as shown.

171,078
ELECTRIC CLOCK
Roy C. Bridges, Fort Worth, Tex.
Application January 12, 1953, Serial No. 23,105
Term of patent 3½ years
(Cl. D42—7)



The ornamental design for an electric clock, substantially as shown and described.

171,079
MOWING MACHINE HANDLE
Charles W. Butler, Englewood, N. J., assignor to Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn., a corporation of Minnesota
Application May 11, 1953, Serial No. 24,954
Term of patent 14 years
(Cl. D40—1)



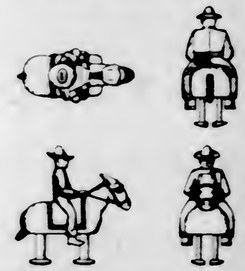
The ornamental design for a mowing machine handle, substantially as shown.

171,080
WALKING TOY
Laurie J. Campbell, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application January 22, 1953, Serial No. 23,259
Term of patent 7 years
(Cl. D34—15)



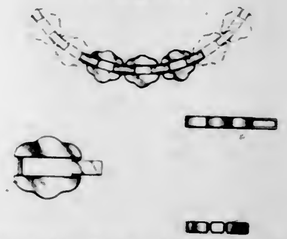
The ornamental design for a walking toy, substantially as shown.

171,081
WALKING TOY
Laurie J. Campbell, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application January 22, 1953, Serial No. 23,260
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a walking toy, substantially as shown.

171,082
LINK CHAIN FOR A NECKLACE OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application July 12, 1952, Serial No. 20,584
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or similar article, substantially as shown and described.

171,083
LINK CHAIN FOR A NECKLACE OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application July 12, 1952, Serial No. 20,586
Term of patent 14 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or similar article, substantially as shown and described.

171,084
SET OF EDUCATIONAL ALPHABET CARDS
Miriam Elizabeth Corbett and Gladys C. Hoff, Richmond, Ind.
Application May 12, 1950, Serial No. 9,889
Term of patent 3½ years
(Cl. D25—1)



The ornamental design for a set of educational alphabet cards, substantially as shown and described.

171,085
DOUBLE-BREASTED DRESS VEST
Charles Emms, London, England
Application May 29, 1953, Serial No. 25,251
Term of patent 7 years
(Cl. D3—4)



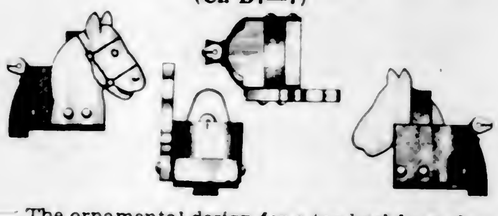
The ornamental design for a double-breasted dress vest, as shown.

171,086
SINGLE-BREASTED DRESS VEST
Charles Emms, London, England
Application May 29, 1953, Serial No. 25,252
Term of patent 7 years
(Cl. D3—4)



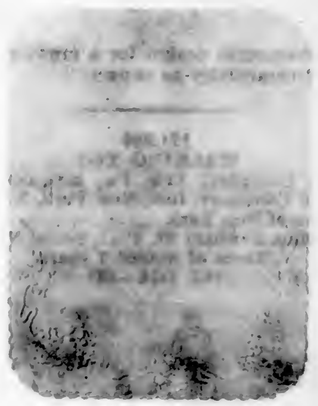
The ornamental design for a single-breasted dress vest, as shown.

171,087
TOY HEEL FOR A SHOE OR THE LIKE
Eddie Feldman, Chicago, Ill.
Application January 27, 1953, Serial No. 23,330
Term of patent 7 years
(Cl. D7—7)



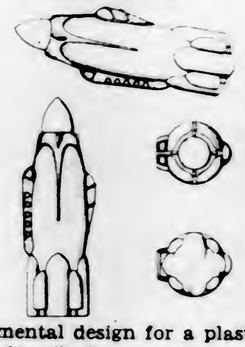
The ornamental design for a toy heel for a shoe or the like, as shown.

171,088
PLACE MAT
Kenneth C. Hamilton, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 24, 1952, Serial No. 21,558
Term of patent 14 years
(Cl. D59—2)



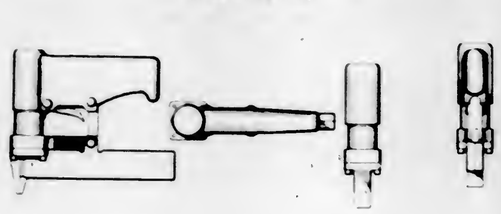
The ornamental design for a place mat, substantially as shown.

171,089
PLASTIC BOTTLE
David G. Hills, Hartford, Conn., assignor to Plax Corporation, West Hartford, Conn., a corporation of Delaware
Application April 10, 1953, Serial No. 24,439
Term of patent 14 years
(Cl. D58—6)



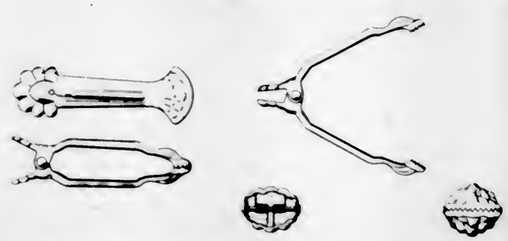
The ornamental design for a plastic bottle, as shown and described.

171,090
STAPLER
Robert W. Jenny, Westerly, R. I., assignor to Bostitch, Inc., Stonington, Conn., a corporation of Rhode Island
Application May 1, 1953, Serial No. 24,791
Term of patent 14 years
(Cl. D74—1)



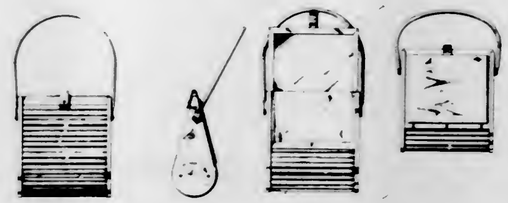
The ornamental design for a stapler, substantially as shown.

171,091
CURTAIN CLIP
David Karpel, Brooklyn, N. Y., assignor to Karpel Curtain Corporation, New York, N. Y.
Application June 16, 1953, Serial No. 25,519
Term of patent 7 years
(Cl. D17—3)



The ornamental design for a curtain clip, substantially as shown.

171,092
HANDBAG
Louis Kaufman, Brooklyn, N. Y.
Application September 22, 1953, Serial No. 26,902
Term of patent 7 years
(Cl. D87—3)



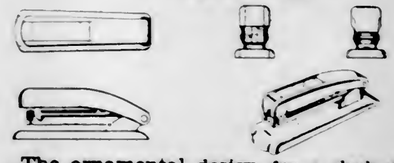
The ornamental design for a handbag, substantially as shown.

171,093
BALL-POINT PEN
Charles K. Lovejoy, Atlanta, Ga., assignor to Scripto, Inc., Atlanta, Ga., a corporation of Georgia
Application October 19, 1953, Serial No. 27,227
Term of patent 14 years
(Cl. D74—17)



The ornamental design for a ball point pen, as shown and described.

171,094
DESK STAPLER OR SIMILAR ARTICLE
Herbert W. Marano, Summit, N. J., assignor to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts
Application June 25, 1953, Serial No. 25,652
Term of patent 14 years
(Cl. D74—1)



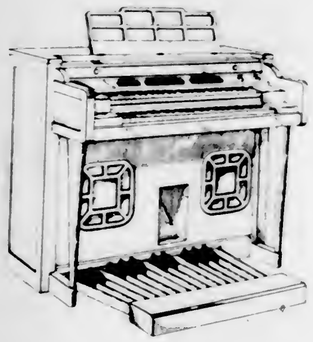
The ornamental design for a desk stapler or similar article, as shown.

171,095
LADY'S STOCKING
Charles E. McCarthy, Palisades Park, N. J., assignor to Chadbourn Hosiery Mills, Incorporated, a corporation of North Carolina
Application October 1, 1953, Serial No. 27,031
Term of patent 14 years
(Cl. D47—7)



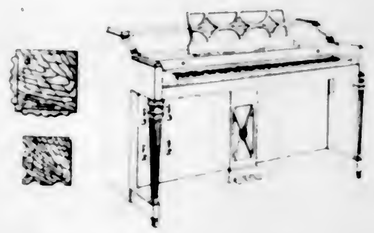
The ornamental design for a lady's stocking as shown and described.

171,096
ORGAN CONSOLE
William Millington, Grand Rapids, Mich., and Wilbur M. Day, Kenwood, Ohio, assignors to The Baldwin Company, Cincinnati, Ohio, a corporation of Ohio
Application February 5, 1953, Serial No. 23,453
Term of patent 14 years
(Cl. D56—2)



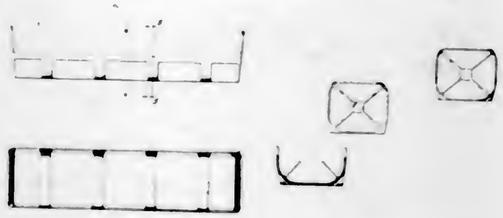
The ornamental design for an organ console, substantially as shown.

171,097
PIANO CASE
William Millington, Grand Rapids, Mich., and Wilbur M. Day, Kenwood, Ohio, assignors to The Baldwin Company, Cincinnati, Ohio, a corporation of Ohio
Application February 5, 1953, Serial No. 23,455
Term of patent 14 years
(Cl. D56—9)



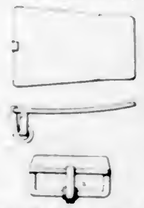
The ornamental design for a piano case, substantially as shown.

171,098
TRAY FOR A WRAPPED FRUIT CONTAINER
Joseph E. Murphy, Hicksville, and Murray Schnall, Brooklyn, N. Y., assignors to See-Qual Package Corp., New York, N. Y., a corporation of New York
Application October 16, 1952, Serial No. 21,856
Term of patent 14 years
(Cl. D58—26)



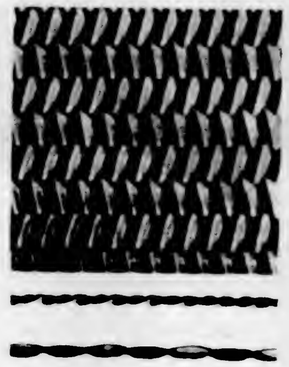
The ornamental design for a tray for a wrapped fruit container, substantially as shown.

171,099
BELT BUCKLE
Arthur A. Oshlag, New Rochelle, N. Y.
Application March 8, 1952, Serial No. 18,826
Term of patent 7 years
(Cl. D17—1)



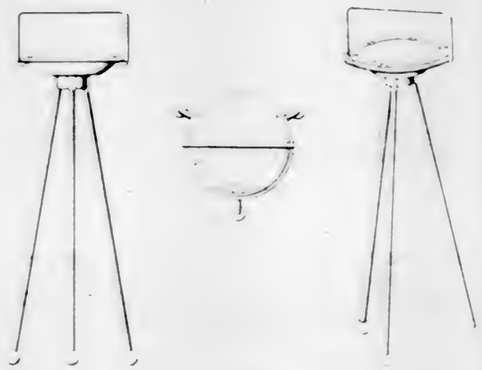
The ornamental design for a belt buckle, as shown.

171,100
FLEXIBLE SHEET OF CUSHIONING MATERIAL OR THE LIKE
Lester Pannone, Shelton, Conn., assignor to The Sponge Rubber Products Company, Shelton, Conn., a corporation of Connecticut
Application June 20, 1952, Serial No. 20,287
Term of patent 14 years
(Cl. D87—3)



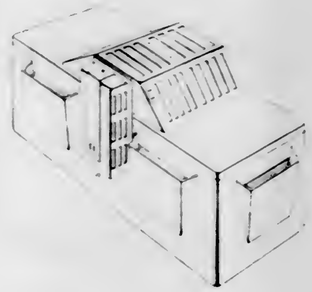
The ornamental design for a flexible sheet of cushioning material or the like, substantially as shown.

171,101
SMOKER'S STAND OR SIMILAR ARTICLE
Fredric C. Panzer and Wilbur H. Panzer, Chicago, Ill.
Application April 15, 1953, Serial No. 24,506
Term of patent 14 years
(Cl. D85—2)



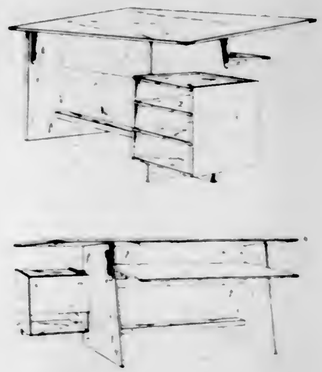
The ornamental design for a smoker's stand or similar article, substantially as shown.

171,102
TOBACCO SHOWCASE HUMIDIFIER
Domenico Patriarca, Cranston, R. I.
Application January 22, 1953, Serial No. 23,249
Term of patent 14 years
(Cl. D85—7)



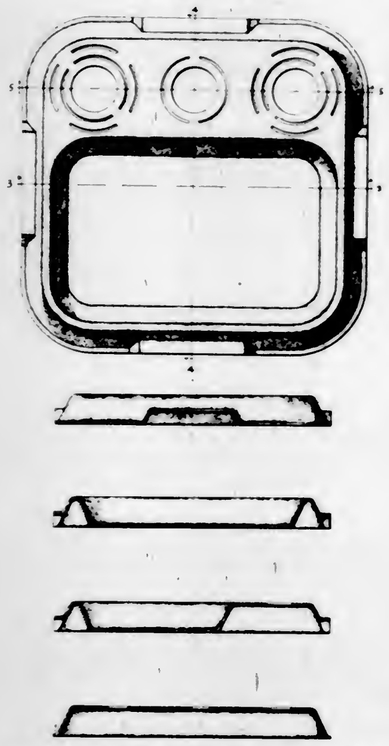
The ornamental design for a tobacco showcase humidifier, as shown and described.

171,103
DRAWING TABLE OR THE LIKE
Thomas M. Rainey, Cleveland, Ohio
Application September 12, 1952, Serial No. 21,435
Term of patent 14 years
(Cl. D33—14)



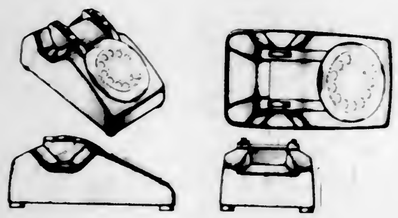
The ornamental design for a drawing table or the like, as shown.

171,104
CARRYING TRAY
Walter H. Randall, Waterville, Maine, assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine
Application November 21, 1952, Serial No. 22,393
Term of patent 14 years
(Cl. D44—10)



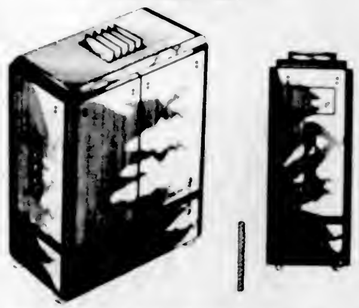
The ornamental design for a carrying tray, as shown.

171,105
DESK STAND FOR A HAND TELEPHONE
James M. Robinson, Leonard J. Greshel, and Donald A. Lewis, Galion, Ohio, assignors to The North Electric Manufacturing Company, Galion, Ohio
Application January 12, 1953, Serial No. 23,109
Term of patent 14 years
(Cl. D26—14)



The ornamental design for a desk stand for a hand telephone, as shown and described.

171,106
COMPUTER HOUSING
Theodore C. Sandborg, Los Angeles, Calif., assignor to Computer Research Corporation of California, a corporation of Delaware
Application February 26, 1953, Serial No. 23,810
Term of patent 14 years
(Cl. D64—11)



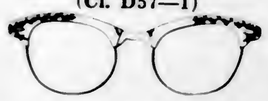
The ornamental design for a computer housing, substantially as shown and described.

171,107
SPECTACLE FRONT
Raymond F. Schutz, Buffalo, N. Y., assignor to Rosary Hill College, Buffalo, N. N. Y.
Application January 21, 1953, Serial No. 23,231
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a spectacle front, as shown and described.

171,108
SPECTACLE FRONT
Raymond F. Schutz, Buffalo, N. Y., assignor to Rosary Hill College, Buffalo, N. Y.
Application January 21, 1953, Serial No. 23,232
Term of patent 14 years
(Cl. D57—1)



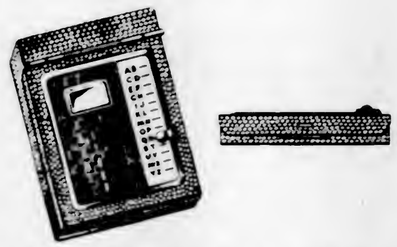
The ornamental design for a spectacle front, as shown and described.

171,109
SPECTACLE FRONT
Raymond F. Schutz, Buffalo, N. Y., assignor to Rosary Hill College, Buffalo, N. Y.
Application January 21, 1953, Serial No. 23,233
Term of patent 14 years
(Cl. D57—1)



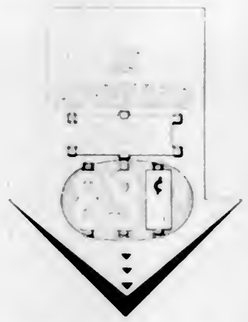
The ornamental design for a spectacle front, as shown and described.

171,110
ADDRESS CONTAINER
Alton L. Shirley, Cranston, R. I.
Application September 15, 1953, Serial No. 26,820
Term of patent 7 years
(Cl. D74—1)



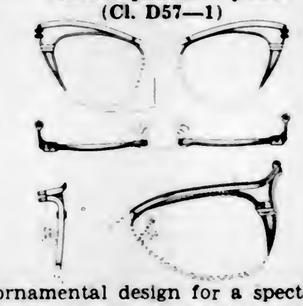
The ornamental design for an address container, as shown and described.

171,111
PRICE TAG
Robert J. Slavsky, Detroit, Mich., assignor to Shaw & Slavsky, Inc., Detroit, Mich., a corporation of Michigan
Application June 29, 1953, Serial No. 25,710
Term of patent 14 years
(Cl. D1—13)



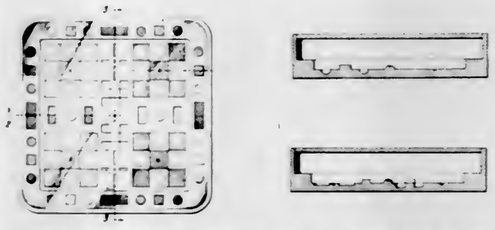
The ornamental design for a price tag, as shown and described.

171,112
SPECTACLE FRONT
Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application June 3, 1953, Serial No. 25,307
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a spectacle front, substantially as shown and described.

171,113
GAME BOARD
Frank M. Swan, Kansas City, Mo.
Application July 6, 1953, Serial No. 25,817
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a game board, as shown and described.

171,114
COMBINED BASKET AND COMESTIBLE CONTAINER
William D. Warren, Scarsdale, N. Y.
Application September 21, 1953, Serial No. 26,882
Term of patent 7 years
(Cl. D58—2)



The ornamental design for a combined basket and comestible container, as shown and described.

171,115
LADY'S STOCKING
Abrasha Wilcher, Manchester, N. H., assignor to Melvin J. Gordon, Sadye Z. Gordon, and Natalie G. Stone, doing business as Manchester Hosiery Mills, Manchester, N. H.
Application May 19, 1952, Serial No. 19,776
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown.

December 22, 1953 Volume 677 Number 4

Official Gazette

UNITED STATES PATENT OFFICE

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SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

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Condition of Applications Under Examination at Close of Business December 4, 1953

Total number of patent applications awaiting action, 104,705. Date of oldest new application, February 2, 1953; date of oldest amended application, February 4, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	3-13-53	3-10-53	1373
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	3-11-53	3-19-53	1257
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus) Heating; Coating or Plastic Composition (part).	4-2-53	4-1-53	1994
4. FALLER, E. A., Hoists; Power Driven Conveyors, Handling Apparatus	3-16-53	3-16-53	1551
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	3-13-53	3-12-53	1392
6. SURLE, H., Carbon Chemistry (part)	2-5-53	2-6-53	2154
7. GONSALVES, J. E., Optics; Photography (part)	2-27-53	2-26-53	1885
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	4-6-53	4-6-53	1441
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	3-9-53	3-5-53	1235
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	3-27-53	3-24-53	1241
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	3-10-53	3-12-53	1812
13. BEALL, T. E., Gear Cutting, Milling, Planting; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	3-4-53	3-2-53	1265
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	3-27-53	3-24-53	1479
15. BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus, Glass	3-11-53	3-11-53	1726
16. LOVEWELL, N. N., Television; Telephony; Recorders	2-11-53	2-9-53	1782
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	3-5-53	3-10-53	1458
18. KURZ, J. A., Power Plants; Speed Responsive Devices	3-2-53	2-24-53	1403
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	2-20-53	2-16-53	1104
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	4-6-53	4-6-53	1220
21. MADER, R. C., Textiles	3-9-53	3-13-53	1267
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	3-27-53	3-24-53	1176
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	3-2-53	3-2-53	1017
24. HICKEY, T. J, (Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles Ironing or Smoothing	5-14-53	5-14-53	1045
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	2-26-53	2-27-53	1421
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	3-23-53	3-20-53	1940
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	3-25-53	3-23-53	1270
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	4-2-53	3-25-53	1407
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	3-18-53	3-12-53	1303
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	5-18-53	5-18-53	1474
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	3-3-53	3-3-53	1879
32. BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	4-9-53	3-30-53	1378
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	3-5-53	3-4-53	1996
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	2-24-53	2-24-53	1321
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	3-25-53	3-18-53	1423
36. McFADYEN, A. D., Measuring and Testing	3-26-53	3-27-53	1081
37. LEVY, M. L., Electricity-Switches, Welding, Heating	4-7-53	4-3-53	1740
38. MARMELSTEIN, N., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	2-19-53	2-24-53	2055
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	4-13-53	4-13-53	1552
40. DRUMMOND, E. J., Receptacles (part); Packages	4-1-53	4-1-53	2100
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	3-30-53	3-30-53	1755

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors	3-4-53	3-4-53	1743
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-2-53	3-5-53	1662
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	3-19-53	3-20-53	1323
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	3-2-53	3-2-53	1180
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	3-20-53	3-20-53	1573
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	3-2-53	3-2-53	1829
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	3-17-53	3-17-53	1448
50. BENGEL, W. G., Synthetic Resins; Rubber	5-4-53	5-4-53	1997
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	3-10-53	3-2-53	1559
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	4-15-53	4-7-53	1974
53. REYNOLDS, E. R., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	3-16-53	3-20-53	1628
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications.	3-2-53	3-20-53	1920
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	2-18-53	2-18-53	1658
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	4-20-53	4-20-53	1362
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	4-1-53	3-23-53	1767
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	3-5-53	3-2-53	1362
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-17-53	3-11-53	1506
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	4-28-53	4-27-53	905
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	4-1-53	3-31-53	1875
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	2-26-53	2-24-53	2030
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	3-19-53	3-16-53	1727
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	4-2-53	3-30-53	1072
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	3-26-53	3-26-53	1637
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	3-18-53	3-16-53	1617
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	2-2-53	2-4-53	3663
DESIGNS: A—BREHM, G. L., Industrial Arts	6-29-53	6-29-53	1130
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	7-13-53	8-10-53	886

Number of new applications received week ending November 13, 1953

PATENTS 1,303 DESIGNS 113 REISSUES 0 TOTAL 1,416

Total number of trade-mark applications awaiting action (including renewals and republications), 12,030.
Date of oldest new application, July 6, 1953; date of oldest amended application, July 6, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	7-6-53	7-6-53	2936
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	7-6-53	7-6-53	2993
Renewals (All Classes)	10-2-53	11-4-53	357
Republications (All Classes)	10-1-53	11-6-53	230
III. RACKNOR, M,. Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	7-8-53	7-6-53	2702
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	7-6-53	7-6-53	2812

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ARHEIT ET AL.

No. 5937. Decided June 24, 1953. Petition for rehearing denied September 28, 1953

[202 F.2d 947; 99 USPQ 123]

1. APPEAL TO U. S. COURT OF CUSTOMS AND PATENT APPEALS—ALLOWED CLAIMS NOT CONSIDERED.

Rule restated that, since the court has no jurisdiction over allowed claims, the rejected claims must be considered in the light of prior art and upon their own merits, if any, without reference to the allowed claims.

2. CLAIMS—FUNCTIONAL—STATEMENT OF RESULT DOES NOT RENDER CLAIM PATENTABLE.

Held that where the first clause in a claim recites structure which is not patentable because of its conflict with prior art, "it is not seen how it can be rendered patentable by stating merely the result obtained from use of the structure, or, to express the idea differently, by reciting the function of the old structure."

3. SAME—SAME—EFFECT OF SECTION 112 OF PATENT ACT OF 1952.

When the appellant contends that the last paragraph of section 112 of the Patent Act of 1952 has altered the patent law so that the purely functional limitations in certain of the appealed claims may be taken as meeting the statutory requirements of definiteness, *Held* that "a construction of that paragraph, such as appellant contends for, would render it wholly inconsistent with the first and second paragraphs which, like former R. S. 4888, are explicit and *mandatory* in requiring a written description expressed in 'full, clear, concise and exact terms' *in the specification*, and so set forth *in the claims*."

4. PATENTABILITY—PARTICULAR SUBJECT MATTER—GLASS TANK FURNACE.

Certain claims to a glass tank furnace *Held* properly rejected as failing to avoid the prior art and certain other claims *Held* patentable over the cited prior art.

5. APPEAL TO U. S. COURT OF CUSTOMS AND PATENT APPEALS — RECORD — EXAMINER'S STATEMENT SHOULD BE INCLUDED.

Where the record as certified by the Commissioner did not include the official statement of the Primary Examiner before the Board of Appeals, *Held* that "it is obvious that the statement was necessary to a consideration of the case on its merits, and the appellants should have caused it to be included in the record."

APPEAL from the Patent Office. Serial No. 69,667.

MODIFIED.

John L. Seymour (*Dale A. Bauer* of counsel) for appellants.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner finally rejecting several claims of an application, Serial No. 69,667, filed January 7, 1949, for "Glass Tank Furnaces." One claim numbered 42 was allowed by the Primary Examiner.

Two claims numbered, respectively, 11 and 12, are listed among the appealed claims, but no reference to them is made in either the reasons of appeal or the brief for appellants before us. The Board said concerning them:

Claims 11 and 12 have been rejected [by the Primary Examiner] as not inclusive of the elected species of subject matter and since that rejection has not been challenged we need not further consider these claims.

Obviously, those claims were improperly included in the list and the appeal as to them will be formally dismissed.

So, the claims actually on appeal are numbered 1, 31, 33, 37, 38, 39, 43, 44, 45 and 46. Claim 38 is dependent upon claim 37, and claims 44, 45 and 46 are dependent upon claim 43. Claim 33 is a method claim; all the others are for apparatus.

We here quote claim Nos. 1, 33, 37 and 43:

1. In a furnace for the continuous manufacture of vitreous substances, such as glass, in which the material is submitted in successive compartments to the operations of melting, fining and conditioning to the required temperature for its working, electrodes in the fining compartment to cause an electric current to pass through the glass bath, and at least one conduct situated beneath the surface of the glass bath in one compartment to cause the glass to pass from said compartment to the following one, the cross section of said conduct being sufficiently small to ensure to the glass stream, flowing through said conduct as a result of the extraction of glass from the furnace, a speed sufficiently high to prevent any back current through said conduct.

33. The method of manufacturing glass that includes the steps of melting, fining and working the glass, the glass proceeding from a melting zone to a fining zone to a working zone and being withdrawn from the working zone, fining the glass by Joule effect, and flowing the glass from zone to zone in small, submerged streams impermeable to wandering currents in the zones, said streams constituting the sole connections between the zones.

37. A glass furnace having a fining zone completely surrounded by walls and separated thereby from all other parts of the furnace, heating means beneath the glass level of the fining zone, the sole connection between said zone and an adjacent part of the furnace consisting of at least one little tube penetrating a wall of the fining zone and extending into said part, said tube being proportioned to the rate of withdrawal of glass from the furnace and providing a minimum flow capable of preventing return flow.

43. A glass furnace of continuous type having separate glass-containing compartments on one level for glass in different stages of manufacture and discharge means for

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withdrawing finished glass, and conduit means of small section between said separate compartments, said conduit means having a flow rate related to the flow rate of the discharge means so that the normal operation of the discharge means produces in the conduit means a glass velocity having a minimum in the range from several mm. to 1 cm. per second.

The following patents were cited as references: Rogers, 469,454, February 23, 1892; Voelker, 706,283, August 5, 1902; Grauel, 1,552,555, September 8, 1925; Arbeit, 1,593,054, July 20, 1926.

Appellants' specification and Figure 2 of the drawings, which figure, the Board states "illustrates the species of alleged invention that has been elected," disclose a furnace having three separate compartments (also referred to as tanks and zones) that are connected by tubes referred to in some of the claims as "conducts"[1] and in others as "conduits." In Figure 2, the tubes are longitudinally arranged and are described as "having a small cross section, preferably cylindrical, inserted into the depth of the walls of the two compartments to be connected."

The manufacturing process evidently requires high degrees of heat in the tanks and the specification teaches "heating by the Joule[2] effect with submerged electrodes, such heating being used alone or else combined with surface heating."

It is explained in the specification that the vitrifiable materials used in the composition of glass are melted in the first tank, or zone, being there reacted "on one another"; that the second tank, or zone, is "for evolving the bubbles so as to refine the glass"; and that the third tank, or zone, is provided "for conditioning the molten glass by cooling it down to the temperature suitable for working it by rolling, gathering, feeder extraction, and so on."

Neither the specification nor the claims specify any degree of heat, but the brief for appellants recites temperatures of "about 1100° to 1200° C." in the third.

Such additional details of structure as are deemed pertinent upon the narrow issue here involved are stated hereinafter.

The following informative statement is quoted from the brief for appellants:

> If one were to measure all the glass furnaces operating in the world, one would probably find that no two such furnaces have the same dimensions. They are not turned out like automobiles with interchangeable parts, but each glass furnace is specially designed to embody the capacity to meet new requirements, the demands of new machines, and to embody lessons learned from old furnaces. An examination of the drawings of over 60 furnaces belonging to a very large company showed no duplicates either in constructional features or in rate of production. The little furnace for making relatively small quantities of optical glass is totally unrelated in size, rate of production, outline, and rate of flow of glass in the furnace to the gigantic plate glass machine whose apparatus is over a half a mile long.

In the specification it is said:

> The object of the present invention consists in providing particular means for ensuring the communication from one compartment of the tank to another compartment. More especially, it relates to means permitting to prevent any movement of the already fined glass containing [sic] in the fining cell or compartment back to the melting compartment, or of the already cooled glass contained in the conditioning compartment back to the fining cell or compartment.
>
> • • • • • • • •
>
> In a tank furnace for the continuous production of glass comprising one or more fining cells or compartments electrically heated by the Joule effect, there is provided, according to the present invention, for the passage of molten glass from one compartment to the following compartment, one or several conducts each having a cross section sufficiently small to ensure to the glass stream, flowing through it as a result of the extraction of glass from the furnace, a speed sufficiently high to prevent any back current; the conducts through which the glass flows from one compartment to the following one are situated between the level of the glass bath in the former compartment.

While, as has been indicated, many claims are embraced in the appeal, the issue as presented before us actually is limited to the question of whether the subject matter relating to preventing the currents of molten glass from "flowing the wrong way in the furnace" is patentable as that feature is expressed in the appealed claims.

The following statement is taken from the decision of the Board:

> • • • Appellants had encountered the difficulty in use of compartmented furnaces that they did not prevent currents of cold glass from the working zone returning to the fining zone and currents of hot glass returning to the melting zone from the fining zone. To overcome the difficulty it is proposed to pass the glass from zone to zone through tubes at a velocity sufficiently high that return flow is prevented. Fig. 2, which illustrates the species of alleged invention that has been elected, shows the melting, fining and working compartments of a furnace connected by small conduits. • • •.

From the foregoing, it is apparent that the *velocity* of the currents of molten glass flowing through the connecting conduits constitutes the element relied upon to prevent the backward flow of such molten glass.

In the brief on behalf of appellants and in the oral argument before us, practically all the emphasis was placed upon claim 43 and the dependent claims 44 and 45, and from our study of the case, we think it logical to give claim 43 first consideration. Unless the velocity feature, as expressed in the claim, is patentable, it is not discerned how such feature properly can be held patentable as it is expressed in any other of the appealed claims.

Before discussing the merits of claim 43, however, there is a question which requires preliminary attention.

As has been stated, one claim stands allowed. It seems to have been "indicated as allowable" by the Primary Examiner. It is presently numbered 42. In stating the reasons for appeal to us, it is alleged that the Board of Appeals erred "In failing to allow claims 43 to 45 in view of the allowance of claim 42," and in both the brief and oral argument before us, argument was made in support of that alleged error.

In the case of *In re Waite et al.*, 35 CCPA (Customs) 1117, 1126, 168 F.2d 104, 77 USPQ 586, we said:

> We apprehend that there is no rule of patent law more firmly settled, nor any which has been more frequently stated, than the rule that this court will not allow rejected claims simply because similar claims may have been allowed by tribunals of the Patent Office in some other application, or even in the particular application under consideration.

[1] It is well that it be borne in mind that this court has no jurisdiction over allowed claims. Consequently, instances requiring our study of such claims are rare. There are instances in which arguments are made that may justify comparing an appealed claim with an allowed claim in order to differentiate or show the absence of pertinent limitations, but even this is a practice not often indulged, and when it is indulged, we are careful to make the reason for such indulgence clear. If we should be led to question the correctness of allowance by the tribunals of the Patent Office of claims in ex parte cases, we apprehend that very promptly and with intense earnestness we would be advised that we were exceeding our authority.

The following excerpt from the brief of the Solicitor for the Patent Office is apposite:

> Claim 43 and, of course, the claims dependent thereon (44, 45 and 46) differ from the preceding claims essentially in the fact that they include a "discharge means" as an element of the combination and specify that the conduit means has a "flow rate" related to the "normal" operation of the discharge means to cause a specified range of glass velocity in the conduit. The Board correctly notes • • • that the final clause in the claim is devoid of structure and merely defines a conduit in terms of its "flow rate." While the appellants apparently do not quarrel with the Examiner's conclusion that the first five lines of the claim are anticipated by Arbeit and Grauel, they strenuously urge that the "flow rate" clause is of patentable significance.
>
> One phase of the appellants' argument may be disposed of forthwith, viz., their reliance on the allowance of claim 42 as indicative of inconsistency on the part of the Patent Office. Aside from the impropriety of relying upon other claims allowed by the Office even in the same case (*In re Waite et al.*, 35 CCPA 1117), it should be noted that claim 42 specifies particular flow rates for both the tube entering and the tube leaving the fining zone, in addition to a number of other structural features not in claim 43, thus setting out a ***combination*** relationship not to be found in any other claim in the case. [Italics quoted.]

We have no authority to reject an appealed claim in an application upon an *allowed* claim in such application, and the converse must be true. If we were to suggest here that the tribunals of the Patent Office erred in granting claim 42, appellant might have just cause for complaint. So, claim 43 must be considered in the light of prior art and upon its own merits, if any, without reference to allowed claim 42.

In his official statement following the appeal to the Board, the Primary Examiner said:

> Claim 43 is considered to be unpatentable over Arbeit or Grauel. Disregarding the last five lines of this claim which comprise the functional statement "said conduit means having a flow rate related • • • cm. per second," the claim defines only compartments on one level, conduit means of small section, and discharge means. Grauel shows on one level, compartments [identified by numerals] 7, 8, 13, conduit means of small section at 10, 12, and discharge means at 16. Arbeit in Fig. 2 shows compartments A, E on one level, conduit means of small section at D, and discharge means at F.

The Board discussed it as follows:

> Claim 43 includes a plurality of glass containing compartments on one level, means for withdrawing finished glass and conduit means of small section between the separate compartments. The Examiner points out that this subject matter of the claim is clearly shown in Grauel and Arbeit. He holds that the remaining subject matter of the claim is functional and not determinative of patentability. We note that the number and character of the compartments is not stated in this claim. In addition to structure clearly shown to be old, the claim recites merely that the "normal operation" of the broadly defined furnace produces a flow velocity in the conduit having a designated range as its minimum. Under these circumstances, we fail to find in this statement of operation any positive structure by which the claim may be distinguished from the prior art. The flow rate is not structure. *In re Henze et al.*, 173 F.2d 997; 81 USPQ 398.

The actual structural features combined in claim 43 are defined in the phraseology reading:

> • • • having *separate glass-containing compartments on one level* for glass in different stages of manufacture and *discharge means* for withdrawing finished glass, and *conduit means of small section between said separate compartments*. [Italics new here.]

It is clear—in fact, it does not seem to be questioned—that the features as thus *broadly defined* are found in the cited prior art in a relationship which constitutes a practical anticipation of them.

Appellant contends, in effect, however, that the claim and its dependent claims are rendered patentable by the following limitation:

> • • • said conduit means having a flow rate related to the flow rate of the discharge means so that the normal operation of the discharge means produces in the conduit means a glass velocity having a minimum in the range from several mm. to 1 cm. per second.

The last foregoing clause obviously is nothing more than a result obtained from the use of the combination of elements recited in the first clause. In other words, the last clause states the function of the first.

[2] Since the first clause is not patentable because of its conflict with prior art, it is not seen how it can be rendered patentable by stating merely the result obtained from use of the structure, or, to express the idea differently, by reciting the function of the old structure.

We hereinafter discuss this question further. We deem it proper to consider the other claims at this juncture.

Both the Primary Examiner and the Board considered all the claims in minute detail, pointed out the purely functional, or resultant limitations expressed in them, and, in rejecting them, applied the same objections that were applied to the functional limitation in claim 43.

As to the physical or structural combinations, the bases of the rejections are epitomized in the reasons of appeal as follows:

> • • • claims 1, 31, and 33 on Grauel and Voelker.
> • • • claim 37 on Grauel in view of either Rogers or Arbeit.
> • • • claim 39 on Arbeit in view of Rogers and Grauel.
> • • • claim 33 as vague and indefinite.
> • • • claim 37 on Arbeit in view of Grauel or Rogers.
> • • • claims 38 and 46 on Grauel or Arbeit in view of Rogers.
> • • • claim 39 on Grauel in view of Rogers.

The material features of the Grauel and Voelker patents are depicted in the statement[3] of the Primary Examiner as follows:

> • • • Grauel shows a melting zone, a working zone and a fining zone heated by Joule effect between the two. The fining zone is in turn divided into three zones [compartments]. The middle fining zone [compartment] is connected to the [first] zone [compartment], which is adjacent the melting zone, solely by a submerged stream • • •. The middle fining zone [compartment] is further connected to [the third] zone [compartment] which is adjacent the working zone by a like stream • • •. There is no clear line of demarcation between a melting zone and a fining zone. Some melting will inherently take place in [the first] zone [compartment], so that essen-

[1] Webster's New International Dictionary gives numerous definitions of "conduct." As used in appellants' application, it evidently means such terms as "channel" and "conduit." Webster states it is obsolete in that use.

[2] Webster defines joule [after James P. Joule, English Physicist] as "A unit of work or energy which is equal to 10 ergs, and is practically equivalent to the energy expended in one second by an electric current of one ampere in a resistance of one ohm. One *joule* is approximately equal to .738 foot pound, or 0.24 small calorie."

[3] We have paraphrased his statement slightly to avoid the use of indicating numerals not easily understandable without the drawings.

tially Grauel does connect a melting zone to a fining zone by a submerged stream within the definitions of the claim. Likewise, the [third] zone [compartment] is in fact an extention of [the] working zone so that Grauel also connects a working zone to a fining zone by a submerged stream within the definitions of the claim. In short, Grauel shows that it is old to connect three zones by two submerged streams and to heat the glass in the middle zone by Joule effect and whatever the names given to these zones, the method is still old. It is also pointed out that in Grauel because of the small cross section of the streams • • • relative to that of the glass in the rest of the tank they are inherently "impermeable to wandering currents," to the extent that this latter definition reads on currents of glass. Voelker shows a melting zone • • • connected by channels to a refining zone which is heated by Joule effect between electrodes; said refining zone being connected by passages • • • to a working zone. • • •

The following is a general description, slightly paraphrased, of the Arbeit and Rogers patents given in the brief of the Patent Office Solicitor:

The Arbeit patent shows two modifications, that of Figures 1 and 2 being directed to a furnace in which glass is melted in a number of compartments by electric heating sleeves. Fining is carried out in a common chamber and glass is withdrawn from [another] chamber. Glass passes from melting chambers into [the] fining compartment through pipes arranged below the level of the glass. The device of Figures 3 and 4 is similar except that in this instance the fining chamber similarly communicates with the working chambers through pipes.

The Rogers device, • • • has for its stated object "to facilitate drawing off the liquid contents of a crucible and controlling the flow therefrom." It is said to be particularly designed for use in recovering metals from compounds and, thus, would inherently be subjected to temperatures as high, or higher, than those encountered in a glass furnace. Specifically, the patent shows in Figure 1 an inner carbon tube to conduct the molten material, the tube being encased in an insulating material and outer metal jackets • • •

The last clause in claim 1 reads:

• • • the cross section of said conduct being sufficiently small to ensure to the glass stream, flowing through said conduct as a result of the extraction of glass from the furnace, a speed sufficiently high to prevent any back current through said conduct.

Obviously, the foregoing is a purely functional statement and it is the only statement in the claim which *defines* the dimensions of the conduct. The specification is no more definite in that respect than the claim.

Since it was found that the actual structural combination was not patentable over the prior art as shown in the Grauel and Voelker patents, it was held, in effect, that novelty could only be claimed on the basis of the functional statement and that it was not proper to base patentability upon function.

For reasons which will appear later herein, we defer discussion of claims 31 and 33 until we shall have reviewed the other apparatus claims.

In claim 37, the physical feature of the combination which appellant emphasizes is "one little tube penetrating a wall of the fining zone and extending into said [an adjacent] part [of the furnace]."

Of this the Primary Examiner, after directing attention to tubes or pipes disclosed by the Rogers and Arbeit patents, and passages for the flow of molten glass from chamber to chamber disclosed by that of Grauel, held in effect that it would not involve invention to substitute the tubes of Rogers and Arbeit for the passages in Grauel.

The only statement in the claim which relates to the actual dimension of the "little tube" reads, "said tubes being proportioned to the rate of withdrawal of glass from the furnace and providing a minimum flow capable of preventing return flow." Nothing more definite as to dimension is shown in the specification.

Appellants do not question the presence in the Grauel, Rogers, and Arbeit patents of the features pointed to by the Primary Examiner, but contend that no one of those patents "shows the concept of a little tube *proportioned* in the manner described." [Italics ours.]

Upon this point the Board said:

• • • Appellant seems to urge that the several lines of the claim relating to the proportioning of the tube patentably distinguishes the claim from the references. As these lines are drawn, we fail to find in them sufficient positively defined structure to constitute a patentable limitation. They set forth in effect merely a desirable result which of itself is not basis for the granting of a patent.

As has been stated, claim 38 is dependent upon claim 37 and it was rejected below on the same grounds that were applied to claim 37. The claim states that the little tube "is carbon and preferably graphite," but in view of the state of the prior art shown, it seems clear that patentability may not be based upon the nature of the material which enters into the tube.

The rejection of claims 37 and 38, for the reasons stated by the tribunals of the Patent Office, is approved.

Claim 39 contains the limitation of "at least one little tube" connecting the tanks beneath the glass line, the tube being externally exposed between the tanks. The claim also describes the tube as "being composed of graphite on the inside and refractory material on the outside."

The claim, unlike the others so far discussed, does not rely upon a functional statement to render it patentable. It was rejected by the Primary Examiner as unpatentable (*a*) over Grauel in view of Rogers, and (*b*) over Arbeit in view of Rogers.

The Board said:

• • • Of the primary references, Arbeit appears to be the more pertinent and Grauel cumulative. We shall therefore consider only the second stated rejection with respect to which it is the Examiner's view that to substitute for the tubes D of Arbeit the insulation covered carbon tube E of Rogers would be obvious. The Examiner points out that while Rogers describes his carbon tube E as being covered with electrical insulating material rather than refractory material, an ordinary electrical insulating material is also a refractory material. Arbeit shows tubes connecting his separate furnace chamber and electrical heating means M surrounding the conduits for influencing the transmitted glass. In view of this disclosure we do not think that it would be inventive to adopt the expedient of insulating the tubes by the use of refractory material, especially in view of the disclosed insulating covering of Rogers' tube E. This covering in view of the temperatures encountered may be expected to be of a refractory material. We do not attach patentable importance to the use of the graphite lining in the absence of any indicated unusual advantages over the carbon disclosed in Rogers.

In the brief for appellants before us the rejection of claim 39 is discussed as follows:

In sustaining the rejection of claim 39 • • • the Board says that no invention is involved in substituting the tube *e* of Rogers for the tube *d*—*e* of Arbeit. This ignores the invention and concentrates on incidentals. Fundamentally, the tube *e* of Rogers is surrounded by a sleeve *d* of metal and by a non-conducting material *d* between the tube, the end of *e* being exposed. Now, the proposal of the Board is not merely to substitute the tube *e* for Arbeit's tube D, (an impossible task in fact) but also to reconstruct the Rogers tube in the manner proposed • • • At the temperature of a hot graphite tube filled with molten glass, Rogers' metal parts would melt and the electrical insulation would burn. In this case, as in many others connected with the glass industry, it is a lot easier to propose reconstructions than to propose reconstructions that are capable of being usefully employed.

It is observed that, notwithstanding the quite critical nature of appellants' discussion, there is a failure on their part to point out any feature essential to the support of the broad combination claim 39, which is not found in the combination disclosed by the cited prior art, except that there is no definite showing of a tube "composed of graphite on the inside and refractory material on the outside." As to this latter limitation, we agree that the particular material named in the claim does not render the claim patentable.

We are not convinced of any error in the rejection of claim 39.

Both apparatus claim 31 and method claim 33 were rejected on the same references as claim 1. The limitation classed as functional by the tribunals of the Patent Office in claim 31 is found in the concluding clause reading, "Each said conduit being a small pipe impermeable to wandering glass currents," and the limitation classed as functional in claim 33 is found in the clause reading, "flowing the glass from zone to zone in small submerged streams impermeable to wandering currents in the zones."

It is our view that the limitations so appearing in claims 31 and 33, even if classed as functional, are inherently different in status from the functional limitations in claims 1, 37, and 43.

In the latter class of claims the *dimension of the tubes* is a vital structural element and the description of the dimension, in our opinion (which evidently coincides with the opinions of the respective tribunals of the Patent Office), is not sufficient to meet the statutory requirements.

It does not seem to us that the so-called functional statements in claims 31 and 33 have any such importance in the matter of novelty, as the clearly functional statements in the other claims have. Their recital in the claims merely discloses their presence. "Impermeable" is a descriptive term and to meet the claims, of course, impermeable passages are required through which the melted glass may flow, but *impermeability*—not dimension, or velocity of flow—is the important characteristic, and "impermeable" defines itself.

We are not satisfied that claims 31 and 33 were properly rejected on the art cited against them or as being purely functional and they will be allowed.

One other matter requires brief discussion. The prosecution of this application began and ended in the Patent Office and the appeal to this court (notice given November 21, 1951) was taken prior to the effective date, January 1, 1953, of Public Law 593, 82nd Congress, 2nd Session, Chap. 950, 66 Stat. 792, approved July 19, 1952, hereinafter referred to as the Patent Act of 1952.

The brief on behalf of appellants was filed in this court September 30, 1952, and that of the Patent Office Solicitor October 29, 1952. Those dates were subsequent to the approval of the Patent Act of 1952, but prior to its effective date. No reference was made to it in the briefs that were filed before us, but when the case was argued orally March 10, 1953, it was referred to, attention being directed to it and to changes made in Section 4888, Revised Statutes, 35 U. S. C. 1946 ed., Sec. 33.

While studying the case following the argument, the court concluded that it was desirable to hear counsel upon the effect, so far as this court's jurisdiction might be affected, of the provision in Sec. 4 of Additional Sections of Patent Act of 1952, Public Law 598, 82nd Cong., 2nd Sess., Ch. 950, 66 Stat. 815, reading:

• • • It [the act] shall apply to further proceedings on applications pending on such date [January 1, 1953] and to patents granted on such applications except as otherwise provided • • •

Appellants' counsel and the Solicitor of the Patent Office responded to the court's request for further oral argument and presented their views on May 15, 1953, and we have considered the new act to the extent required in the light of such presentation.

Counsel on both sides seemed to be of opinion that the statute would apply to this court's jurisdiction in some instances, but they disagreed sharply as to it having any application in this case.

The modifications or changes in the language of R. S. 4888 are embodied in Title 35, U. S. C. Par. 112, which reads:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

Counsel for appellant took a position which, in our opinion, would, if adopted, result in establishing the principle that, under the phraseology of the last paragraph, supra, it is proper to look to purely functional limitations expressed in claims for novelty to support patentability.

The Solicitor for the Patent Office, on the other hand, took a position which, in our opinion, if adopted, requires a holding that in cases where purely functional limitations constitute the sole matter relied upon for novelty, the phraseology of the last paragraph, supra, has no application, and the matter is governed by the first and second paragraphs, supra, which repeat in substance the provisions of R. S. 4888 for a description "in such full, clear, concise and exact terms as to enable any person skilled in the art to which it pertains or with which it is most nearly connected to make and use the same."

As a matter of fact, counsel for appellant was understood by us to have argued that a correct

interpretation of the patent laws as they existed before January 1, 1953, would have rendered it unnecessary to include specific details of structure in claims when such details could be ascertained from the specification, and counsel contended in substance that by the last paragraph of sec. 112, supra, Congress declared the law to be what counsel believes the tribunals of the Patent Office and the courts should have held it to be long, long ago.

Obviously, if the statutes prior to the Patent Act of 1952 should have been construed as counsel for appellant is understood to contend, the tribunals of the Patent Office and all the courts having to do with patent law have been erring probably ever since administration of the patent system authorized by the Constitution began. It would be a waste of time and labor to trace and recite here the history appertaining to this vital principle of law.

In the case of *In re Dalton et al.*, 38 CCPA (Patents) 953, 956, 188 F.2d 170, 89 USPQ 271, this court stated the law as follows:

> • • • Properties, functions, uses and results that may appear from the defined structure are not definitions of it and may not be solely relied upon to make a claim containing them patentable unless there is a positive setting out of the structure itself *in the claims* which, of course, must be responsible for properties, functions, uses, and results thereof. [Italics ours.]

In the case of *In re Jolly*, 36 CCPA (Patents) 825, 829, 172 F.2d 566, 80 USPQ 504, we said:

> • • • It is true, of course, that where the validity of a claim *which has been granted* is questioned, • • • it frequently becomes proper to interpret the claim by looking to the specification, but where one *seeks a patent*, the statute very definitely requires that he shall particularly point out and *distinctly claim* that which he claims to be his invention or discovery. No citation of authority is necessary in support of the familiar rule that • • • the *claim is the measure of the invention*. [Italics new here.]

However, even in an infringement case where the validity of a granted patent is involved, the specification, standing alone, may not always be taken as a sufficient definition of structure.

The decision of the Supreme Court of the United States in the case of *General Electric Co.*[1] v. *Wabash Appliance Corp. et al.*, 304 U. S. 366, was, and is, recognized as a lucid and important restatement of certain legal principles appertaining to patents. We quote the following from the decision because it is deemed peculiarly appropos in the case before us now:

> The question before this Court is the validity of the claims in suit. Claim 25, which is typical, reads as follows:
>
> "25. A filament for electric incandescent lamps or other devices, composed substantially of tungsten and made up mainly of a number of comparatively large grains of such size and contour as to prevent substantial sagging and offsetting during a normal or commercially useful life for such a lamp or other device."
>
> We need not inquire whether Pacz exhibited invention, or whether his product was anticipated. *The claim is invalid on its face. It fails to make a disclosure sufficiently definite to satisfy the requirements of R. S. 4888, 35 U. S. C.* [Par.] *33.* That section requires that an applicant for a patent file a written description of his discovery or invention "in such full, clear, concise, and exact terms as to enable any person skilled in the art or science to which it appertains • • • to make, construct, compound and use the same; • • • and he shall particularly point out and *distinctly claim the part, improvement, or combination* which he claims as his invention or discovery." We may assume that Pacz has sufficiently informed those skilled in the art how to make and use his filament. The statute has another command. Recognizing that most inventions represent improvements on some existing article, process or machine, and that a description of the invention must in large part set out what is old in order to facilitate the understanding of what is new, Congress requires of the applicant "a distinct and specific statement of what he claims to be new, and to be his invention." [*Merrill v. Yeomans*, 94 U. S. 568, 570.] Patents, whether basic or for improvements, must comply accurately and precisely with the statutory requirements as to the claims of invention or discovery. [Italics supplied.]

[1] General Electric Company was assignee of the there involved patent which had been issued to Pacz.

In the instant case, counsel for appellants have referred to the difficulty of describing the claimed invention except by stating its function. That difficulty appears to have been alleged as present in the *General Electric* case, supra, and the Supreme Court said the following concerning it:

> The Circuit Court of Appeals below suggested that "in view of the difficulty, if not impossibility, of describing adequately a number of microscopic and heterogeneous shapes of crystals, it may be that Pacz made the best disclosure possible. • • •." But, Congress requires, for the protection of the public, that the inventor set out a definite limitation of his patent; that condition must be satisfied before the monopoly is granted. The difficulty of making adequate description may have some bearing on the sufficiency of the description attempted, but it cannot justify a claim describing nothing new except perhaps in functional terms. It may be doubted whether one who discovers or invents a product he knows to be new will ever find it impossible to describe some aspect of its novelty.

The foregoing decisions, of course, were rendered before the Patent Act of 1952 was enacted. We think it is perfectly clear that under them and a long line of similar decisions, none of the appealed claims before us, except numbers 31 and 33, properly could have been allowed prior to the passage of that act, and so, we come to the ultimate question of whether that act has altered the patent law so that the purely functional limitations in claims 1, 37 (with its dependent claim 38), and 43 (with its dependent claims 44, 45, and 46), may be taken as meeting the statutory requirements of definiteness.

[3] The only changes in phraseology necessary to be considered in connection with that question are those found in the last paragraph of sec. 112, supra. It seems obvious to us that a construction of that paragraph, such as appellant contends for, would render it wholly inconsistent with the first and second paragraphs which, like former R. S. 4888, are explicit and *mandatory* in requiring a written description expressed in "full, clear, concise and exact terms" *in the specification*, and so set forth *in the claims*. In the instant case, the descriptions given in appellants' specification are no more definite than the functional statements in the claims, and the latter are not sufficient to meet the requirements of the act.

It is unnecessary for us to attempt a complete construction of section 112, supra, at this time. It is sufficient to say that, in our opinion, it has no application to the facts of this case.

[4] The appeal is dismissed as to claims 11 and 12, and the decision of the Board of Appeals is modified. It is affirmed as to claims 1, 37, 38, 39, 43, 44, 45, and 46; and reversed as to claims 31 and 33.

The Notice of Appeal from the decision of the Board of Appeals to this court was filed in the Patent Office December 17, 1951, and the record as certified by the Commissioner of Patents was filed in the office of the Clerk of this court January 31, 1952. The printed copies of the record were filed July 3, 1952.

The record so certified by the Commissioner did not include the official statement of the Primary Examiner (dated July 10, 1950), made in conformity with the rules of the Patent Office, following the appeal from his decision to the Board of Appeals, and, on October 9, 1952, the Patent Office Solicitor filed a "Motion to correct diminution of the record" by inserting therein the Primary Examiner's Statement.

[5] It is obvious that the statement was necessary to a consideration of the case on the merits, and appellants should have caused it to be included in the record.

The costs incident to the motion to correct diminution will be taxed to appellants.

MODIFIED.

O'CONNELL, *J.* (concurring in part, and dissenting in part):

I agree that the decision of the Board of Appeals should be affirmed as to the rejection of claims 1, 37, 38, and 39, and reversed as to claims 31 and 33.

The disallowance of claims 43, 44, 45, and 46 should likewise be reversed. The gist of the invention, for all furnaces regardless of their shapes and rates of production, is based upon the prevention by the employment of velocity, or rate of flow, as the effective means of preventing back flow of glass from one to another. The patentability of the principle involved was acknowledged in the Patent Office by the allowance of claim 42. As noted in appellants' petition for reconsideration of the Board's decision:

> The invention can be clearly stated in terms of velocities as the applicants have done, and as the Examiner has approved, but it is impossible to translate the invention into different terms of "positive structure."

It is my conviction that appellants have complied with the requirements of the patent law. This court has established by a line of decisions that an inventor, for the reasonable and advantageous protection of the invention defined by an allowed claim or claims, is entitled to a limited number of additional claims, worded differently or containing elements allowed in such claims, which do not affect patentability of one claim over another.

The underlying reason for the rule is to curb not only the activities of those engaged in pirating patented inventions but also to remove, under the assurance of adequate patent protection, the misgivings which otherwise could develop among investors who risk their capital and effort to make inventions available to the public. *In re Franz et al.*, 38 CCPA (Patents) 1206, 1211, 190 F.2d 86, 90 USPQ 220, and authorities therein cited.

It also appears to me that the Patent Office has failed to give appropriate reasons for the rejection of the claims last mentioned. *In re Lee*, 39 CCPA (Patents) 752, 193 F.2d 186, 92 USPQ 131; *International Standard Electric Corp.* v. *Kingsland*, 169 F.2d 890, 83 App. D. C. 355.

U. S. Court of Customs and Patent Appeals

IN RE PRUTTON

No. 5975. Decided June 24, 1953

[205 F.2d 198; 98 USPQ 269]

1. CLAIMS—AMBIGUOUS CLAIMS GIVEN BROAD INTERPRETATION.

   Held that if claims are in any way ambiguous in meaning, a broad interpretation thereof is required.

2. RES JUDICATA—APPELLANT'S DUTY TO SHOW DISTINCTION BETWEEN CLAIMS.

   Appellant's claims having been rejected on the ground of res judicata, *Held* that it was incumbent upon appellant to exhibit a patentable distinction between the present claims and those rejected in the prior action.

3. SAME—DOCTRINE APPLIES UNLESS CLAIMS CLEARLY DEPART IN MEANING FROM THOSE PREVIOUSLY ADJUDGED.

   Where the appellant fails in his endeavor to exhibit a patentable distinction between present claims and those rejected in a prior action, *Held* that the court should not "read into the claims a limitation which does not clearly depart in meaning from that previously set forth and rejected on prior art references."

4. PATENTABILITY—PARTICULAR SUBJECT MATTER—LUBRICATING COMPOSITION.

   Certain claims to a lubricating composition *Held* properly rejected on ground of res judicata.

APPEAL from the Patent Office. Serial No. 738,497.

AFFIRMED.

Oscar C. Limbach and *Oberlin & Limbach* (*Arnold B. Christen* and *Fisher & Christen* of counsel) for appellant.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

COLE, *J.*:

Alleging certain inventive improvements in a lubricating composition, the appellant herein, on March 31, 1947, presented his application (Serial No. 738,497) to the Patent Office in which fifty-six claims were asserted. The Primary Examiner and the Board of Appeals, in concurring opinions, denied all of the claims of said application on the ground of res judicata, an unsuccessful prosecution of appellant's earlier (parent) application (Serial No. 416,753, filed October 27, 1941) in which successive appeals to the District Court and Court of Appeals for the District of Columbia resulted in final and conclusive determination that the subject matter therein claimed was unpatentable in view of the prior art of record, allegedly presenting justification therefor. *Prutton et al.* v. *Marzall, Commissioner of Patents*, 191 F.2d 341, 89 USPQ 632. Finding no essential distinction between the claims of the two applications, the Patent Office applied the principle of res judicata in the instant case, and the appellant challenges the correctness of that decision in this appeal.

Before proceeding with a discussion of the appellant's disclosures, it is well to note that in the litigation involving the parent application the appellant delayed filing an affidavit under old Rule 75 which, if it had been seasonably filed, would have antedated the reference patents then cited in opposition to patentability. On appeal to the District

Court, following the refusal of the Patent Office to entertain said affidavit, appellant again sought to introduce the affidavit. This action was denied by the District Court; in the same proceeding, however, the Solicitor for the Patent Office made three new patents of record as prior art—Salzberg et al. (2,063,629), Morway (2,109,779), and Shoemaker et al. (2,191,996). These references could not be antedated by the appellant, and the Court of Appeals, without directly ruling on the evidential issue concerning the affidavit, affirmed on the basis of the prior art represented by the Salzberg, Morway, and Shoemaker patents. *Prutton et al. v. Marzall, Commissioner of Patents*, supra.

In this proceeding, the appellant has moved to dismiss his appeal as to claims 3 to 11, 16, 19 to 22, 28 to 39, 45 to 47, and 52 to 56. The motion being allowed, the remaining claims are 1, 2, 12 to 15, 17, 18, 23 to 27, 40 to 44, and 48 to 51. As stated by the Solicitor, it is obvious that "the claims stand or fall together." Claims 1 and 44 are considered representative and read as follows:

1. A lubricating composition comprising a hydrocarbon lubricating oil, the ability of which to more fully perform the lubricating function under a wide variety of conditions, is, in part at least, dependent upon the combined presence therein of an oil soluble organic compound functioning as a detergent and an oil soluble organic non-metallic compound containing an element of the class consisting of sulphur and selenium in such form that, of the total sulphur and selenium present in the entire composition, more than 1%, based on such component, will react with copper at a temperature of 250° C. and less than 0.1% at 100° C.

44. A lubricating composition comprising a major amount of a hydrocarbon lubricating oil and the combination of (*a*) a detergent and (*b*) a sulphur-containing inhibitor in such an amount and with the sulphur in such form that, of the total sulphur present in the entire composition, more than 0.01% of sulphur based on the weight of the lubricating composition, will react with copper at 250° C. and less than 0.001% at 100° C.

The application thus teaches the alleged success of adding certain agents to a mineral lubricating oil base for the claimed purpose and with the claimed result, of securing more beneficial and effective lubrication than heretofore has been proposed or accomplished by prior art disclosures. The oil soluble addition agents claimed in the composition amount to a component acting as a detergent and a sulfur containing inhibitor (non-metallic) which is reactive within a particular range.

It is known that of the shortcomings inherent in conventional uses of hydrocarbon lubricants as such (in an internal combustion engine, for example), the tendency toward deterioration or decomposition of the oil as well as its inability to withstand high film pressures are foremost. Addition of a detergent to the oil base (in combination with a corrosion inhibitor) cuts down the amount of varnish-like deposits formed by decomposition of the lubricant under conditions of operation, while the inclusion of sulfur in the composition effects a material reduction in corrosion (particularly of the soft metal parts of the engine) through the formation of a protective film on said working parts.

Concededly, the addition agent art is not a new concept originating with appellant in the appealed claims. It is, however, asserted by appellant that his manner of fortifying the ordinary mineral lubricating oil with the stated addition agents of specified form and amount is novel and patentable. In his specification, appellant states:

In order to produce a lubricating composition which will have the desired combination of a reduced tendency to form deleterious deposits and a reduced tendency to be corrosive, I have found that the inclusion together with a detergent, either in the same or in a separate compound, of a sufficient amount of sulphur or selenium, in a particular range of activity, is highly effective.

The inhibitor to be used should contain sulphur or selenium in such form that a substantial amount, sufficient to effectively prevent corrosion of bearing metals, will react with copper at a temperature above 250° C., and only an inconsequential amount will react with copper at a temperature below about 100° C.

Appellant takes the position in this appeal that the claims involved herein do not mean essentially the same thing as the claims presented and rejected in the parent application, but contends that they are patentably distinct therefrom; and that the composition recited in the appealed claims is not anticipated by any prior art disclosures.

The cases of *In re Becker*, 22 CCPA (Patents) 843, 74 F.2d 306, 24 USPQ 120, and *Lavin v. Pierotti*, 29 CCPA (Patents) 1235, 129 F.2d 883, 54 USPQ 400, and others, clearly makes the doctrine of res judicata applicable to decisions of the Patent Office tribunals and courts in patent litigation. There can be no question as to that. Proceeding upon that premise, therefore, that such a doctrine is applicable if the facts justify it, let us look at the record. In so doing, should the claims of the application in the earlier litigation (Serial No. 416,753) and the application at bar be found to be identical or sufficiently similar, then the appellant's case must fall.

In his brief, the appellant sets forth the essence of the instant controversy in the following language:

• • • Appellant, in the present claims here on appeal, as distinguished from the claims in the parent case, and also the prior art patents, include the recitation that "the total sulfur and selenium present in the entire composition" conform to a certain sulfur reactivity. This statement that the certain sulfur reactivity was possessed by the "total sulfur and selenium present in the entire composition" was not present in the claims in the prior case. Thus, appellant's claims are distinct from the claims of the prior case.

In substance, therefore, the only material distinction between the claims of the two applications is found to reside in the inclusion of an additional limitation in the claims now on appeal—a clause reading, "the total sulfur and selenium present in the entire composition."

In deciding the question of patentability of the claims presented in the parent application, the Court of Appeals, supra, said:

The essential point which appellants urge is that their formula provides a definition of the amount of sulphur to be added and specifies the narrow range of that amount.

Their brief says, in this respect:

"First, no one prior to the Appellant Prutton ever taught the use of a lubricant which contains sulphur in the character and amount specified; and "Second, no one prior to the Appellant Prutton ever proposed the combined use with such *character* and *amount* of sulphur, of a material which functions as a detergent." [Italics quoted.]

• • • • • • • •

• • • These patents [the Morway, Salzberg, and Shoemaker prior art references relied upon by the court], taken together, clearly showed the usefulness in lubricant formulas of detergents and of sulphur-containing corrosion inhibitors. [Morway shows the combination of a detergent and inhibitor in the same composition]. Appellants must therefore urge some new factor. This they do by contending that their formula teaches the use of sulphur of prescribed character in prescribed amounts, on a controlled-activity basis.

The Court of Appeals then discussed in detail the "control aspects" of appellant's formula, but concluded that the claimed sulfur reactivity failed to patentably differentiate over the prior art. The court called attention to the fact that the Morway patent "did not contemplate that the use of sulphur would be uncontrolled," but that Morway "gave a special definition of the sulphur to be used and provided for activity tests." Moreover, the court particularly pointed out that "only a portion of the sulphur used by Morway was to be in the so-called 'corrosive' form."

The appellant herein does not dispute the correctness of the rulings set forth by the Court of Appeals in that case, nor does he take issue with the pertinency of the prior art as negativing invention in the claims of his parent application. Appellant concedes that the rejected claims therein were sufficiently broad to include corrosive sulfur as well as sulfur of the desired reactivity. Appellant maintains, however, that the instant claims, by reciting that the sulfur reactivity is true of the *total amount of sulfur in the entire composition*, exclude corrosive sulfur and present an invention of the highest order, not anticipated by the prior art or heretofore claimed in the parent application.

It is our opinion that the appealed claims, as written, do not warrant the construction placed thereon by appellant. We do not think that the claims in issue can be interpreted to mean that all the sulfur in the compound responds to the claimed reactivity, or that all corrosive sulfur is eliminated from the composition. The appealed claims do not appear to exclude the presence of corrosive sulfur in the composition any more than did the claims rejected by the Court of Appeals in the parent application.

[1] In any event, if the claims are in any way ambiguous in meaning, as we think they are, a broad interpretation thereof is required, and upon looking to the specification of the instant application, there is but a vague reference relative to the total amount of active sulfur. It fails to adequately support the construction of the claims urged upon us by appellant.

Indicative of the shortcomings to be found in appellant's position is the following from the brief of the Solicitor for the Patent Office with regard to claim 44, previously quoted in full:

• • • it states [claim 44] that the sulfur containing inhibitor is "in such an amount" and with the sulfur "in such form" that "of the total sulfur present" in the entire composition more than 0.01% of the sulfur will react with copper at 250° C. and less than 0.001% at 100° C. What amount of sulfur is present in the composition is not stated; the amount may approach 50% as an upper limit, since the only quantitative limitation in the claim is on the amount of lubricating oil, stated as "a major amount." While 50% would be more than the 0.01% set forth in the claim, it is not clear how that amount could be reconciled with the less than 0.001% limitation. • • • It is submitted that the claim means simply that an indefinite amount (less than 50%) of a sulfur containing inhibitor is present in the composition, with the sulfur present in such form that more than 0.01% of the total sulfur will react with copper at 250° C. and less than 0.001% at 100° C., and that it is essentially the same as the claim of the prior case.

The fact that appellant does not deny that the application disclosure of the parent case is the same as that presently relied upon to support the appealed claims is not decisive of the issue herein with regard to the applicability of the doctrine of res judicata. [2] [3] It was incumbent upon appellant, however, to exhibit a patentable distinction in the subject matter of the present claims, and having failed in this endeavor, we are unwilling to read into those claims a limitation which does not clearly depart in meaning from that previously set forth and rejected on prior art references. There being no patentable difference in the claims of the two applications, the previous rejection is wholly conclusive and no longer open to further litigation.

Inasmuch as the claims in the earlier application were rejected in view of reference patents having a date prior to any date sought to be established by appellant in introducing the affidavit aforementioned, and the claims herein being essentially identical thereto, as we have determined herein, it is not seen how the appellant seeks to prevail by arguing that the affidavit should have been received as evidence to support his contention. In any event, we do not regard the position of the affidavit in this case as having any bearing on the ultimate conclusion expressed herein.

[4] For the reasons hereinbefore stated, the decision of the Board of Appeals is affirmed.

AFFIRMED.

JACKSON, *J.*, retired, recalled to participate herein in place of GARRETT, *C. J.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 154,846. (See T. M. 155,910.)

T. M. 155,909. (See T. M. 155,910.)

T. M. 155,910, T. M. 155,909, T. M. 228,002, T. M. 338,892, T. M. 347,535, T. M. 377,505, Standard Oil Co., Inc., Paving asphalt, asphalt road oils, etc.; T. M. 156,552, same, Sewing-machine oils, cylinder oils, etc.; T. M. 160,350, same, Floor dressing, paints, etc.; T. M. 226,540, same, Fly and germ killer and insecticide for use upon cattle; T. M. 156,551, T. M. 160,349, same, Axle greases, burning oils, etc.; T. M. 155,911, same, Furniture polish, painter's material, etc.; T. M. 154,846, T. M. 338,114, same, Harness oil, etc.; T. M. 336,988, same, Hydrocarbon solvents for paints and lacquers; T. M. 337,835, same, Petrolatum oils, greases, etc.; T. M. 280,830, same, Glass pump globes and lenses thereof; T. M. 282,259, same, Dispensing pumps and parts thereof; T. M. 376,887, same, Antifreeze compound, leak stoppage, etc.; T. M. 377,316, same, Leather oil, spot remover, etc.; T. M. 176,408, T. M. 194,116, T. M. 211,361, T. M. 220,294, T. M. 224,804, T. M. 233,504, T. M. 233,505, T. M. 338,622, same, Refined, semi-refined, and unrefined oils; T. M. 354,294, same, Leather oil; T. M. 227,458, T. M. 258,648, T. M. 370,870, T. M. 376,515, same, Liquid gloss, floor dressing; T. M. 227,457, same, Paraffin wax for washing purposes, etc.; T. M.

355,741, Gilbert & Baker Mfg. Co., Oil burners, etc., D. C. S. D. N. Y., Doc. 86/128, *Standard Oil Co. et al.* v. *Standard Petroleum Corp.* Consent judgment, enjoining defendant Oct. 2, 1953.

T. M. 155,911. (See T. M. 155,910.)
T. M. 156,551. (See T. M. 155,910.)
T. M. 156,552. (See T. M. 155,910.)
T. M. 160,349. (See T. M. 155,910.)
T. M. 160,350. (See T. M. 155,910.)
T. M. 176,408. (See T. M. 155,910.)
T. M. 194,116. (See T. M. 155,910.)
T. M. 211,361. (See T. M. 155,910.)
T. M. 220,294. (See T. M. 155,910.)
T. M. 224,804. (See T. M. 155,910.)
T. M. 226,540. (See T. M. 155,910.)
T. M. 227,457. (See T. M. 155,910.)
T. M. 227,458. (See T. M. 155,910.)
T. M. 228,002. (See T. M. 155,910.)
T. M. 233,504. (See T. M. 155,910.)
T. M. 233,505. (See T. M. 155,910.)
T. M. 258,648. (See T. M. 155,910.)
T. M. 280,830. (See T. M. 155,910.)
T. M. 282,259. (See T. M. 155,910.)
T. M. 336,988. (See T. M. 155,910.)
T. M. 337,835. (See T. M. 155,910.)
T. M. 338,114. (See T. M. 155,910.)
T. M. 338,622. (See T. M. 155,910.)
T. M. 338,892. (See T. M. 155,910.)
T. M. 347,535. (See T. M. 155,910.)
T. M. 354,294. (See T. M. 155,910.)
T. M. 355,741. (See T. M. 155,910.)
T. M. 370,870. (See T. M. 155,910.)
T. M. 376,515. (See T. M. 155,910.)
T. M. 376,887. (See T. M. 155,910.)
T. M. 377,316. (See T. M. 155,910.)
T. M. 377,505. (See T. M. 155,910.)

NOTICES

Notice of Tentative Recordation of Trade Name

[T. D. 53383]

Tentative recordation of trade name under section 42, Trade-Mark Act of July 5, 1946, and section 11.16, Customs Regulations

TREASURY DEPARTMENT
OFFICE OF THE COMMISSIONER OF CUSTOMS
Washington, D. C., November 27, 1953

To Collectors of Customs and Others Concerned:

An application has been filed in the Treasury Department for the recordation of the following described trade name under the provisions of section 42, Trade-Mark Act of July 5, 1946, and section 11.16, Customs Regulations.

"SCHERING CORPORATION," owned by the Schering Corporation, a corporation organized under the laws of the State of New Jersey, located and doing business at No. 2 Broad Street, Bloomfield, New Jersey, which trade name is used in connection with medicines and pharmaceutical preparations, including hormones, antihistamines, X-ray diagnostic agents, sulfonamides, hypnotics, sedatives, anticholinergic agents, antirheumatics and motion sickness remedies manufactured in the United States.

Any person who desires to file an opposition to the recordation of this trade name shall notify the Commissioner of Customs, Bureau of Customs, Washington 25, D. C., before the expiration of 30 days after December 11, 1953, of his intent to oppose the recordation. If a notice of opposition is filed, the opposer will be furnished with a copy of the application for recordation of the trade name, together with its supporting documents and instructions as to the procedure to be followed. The customs officers concerned will be given notice within 45 days after December 11, 1953, of any opposition proceeding.

Until 45 days after December 11, 1953, all articles of foreign manufacture bearing names or marks which copy or simulate the above mentioned trade name shall be detained, but not seized, and thereafter, shall receive the treatment provided for in section 11.17, Customs Regulations, unless a notice is received that an opposition has been filed, in which case such articles shall continue to be detained until a final determination is made concerning the right of the applicant to the trade name.

(Signed) D. B. STRUBINGER,
Acting Commissioner of Customs.

Notice

The Search Room will be closed Saturdays, December 26, 1953, and January 2, 1954.

T. R. MORROW,
Executive Officer.

Adjudicated Patents

(D. C. N. Y.) Magnus Patent No. 2,373,129, for a harmonica. Claims 1, 2, 3, 5, and 7, *Held* valid and infringed. *Magnus Harmonica Corporation* v. *Lapin Products, Inc.*, 114 F. Supp 942; 98 USPQ 94.

(D. C. N. Y.) Magnus Patent No. 2,407,312, for a plastic harmonica. Claims 4 and 5 *Held* valid and infringed. *Id.*

(D. C. N. Y.) Magnus Patent No. 2,416,451, for a method of and mold for making integral reed plates and reeds. Claim 2 *Held* invalid but, if valid, infringed. *Id.*

(D. C. Calif.) Riley Reissue Patent No. 23,167, for a shoulder pad, *Held* invalid. *Riley* v. *Broadway-Hale Stores, Inc., et al.*, 114 F. Supp. 884; 98 USPQ 433.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Local anesthetic. Serial No. 637,346, Dec. 22. Class 18.

Abby Chrome Corp., New York, N. Y. Dinette chairs and dinette tables. Serial No. 621,993, Dec. 22. Class 32.

Aktiebolaget Åtvidaberg-Facit, Stockholm, Sweden. Typewriters, check protectors, duplicators, etc. Serial No. 625,949, Dec. 22. Class 23.

Alaska Airlines, Inc., Anchorage, Territory of Alaska, and elsewhere. Air transportation. Serial No. 627,728, Dec. 22. Class 105.

Albers Super Markets, Inc., Cincinnati, Ohio. Bread and ice cream. Serial No. 641,824, Dec. 22. Class 46.

Alden, Priscilla, Cosmetics, Inc., New York, N. Y. Creams, lotions, and powders. Serial No. 648,130, Dec. 22. Class 51.

American-Marietta Company, Chicago, Ill. Ready mixed enamels. Serial No. 620,250, Dec. 22. Class 16.

Amy, Aceves & King, Inc., New York, N. Y. Terminal resistors, receiver connecting receptacles, receiver connecting units, etc. Serial No. 641,705, Dec. 22. Class 21.

Anderson & Hamer, Carmel, Calif. Salad dressings. Serial No. 620,715, Dec. 22. Class 46.

Antell, Charles, Inc.: *See*—
National Health Aids of Baltimore, Inc.

Armstrong Cork Company, Lancaster, Pa. Moldable cork and rubber composition. Serial No. 635,806, Dec. 22. Class 12.

Austin-Lee, Inc., Washington, D. C. Portable power megaphones. Serial No. 634,438, Dec. 22. Class 21.

Balin Export Company, Inc., New York, N. Y. Sewing machines. Serial No. 638,632, Dec. 22. Class 23.

Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. Serial No. 649,559, Dec. 22. Class 42.

Baumat A. G., Zurich, Switzerland. Construction and building materials. Serial No. 612,889, Dec. 22. Class 12.

Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y. Aluminum, antimony, arsenic, etc. Serial No. 608,296, Dec. 22. Class 14.

Bernz, Otto, Co., Inc., Rochester, N. Y. Cylinder containing liquid petroleum gas. Serial No. 643,939, Dec. 22. Class 6.

Bloomingdale Bros.: *See*—
Federated Department Stores, Inc.

Bonafide Mills, Inc., Winthrop, Maine, and New York, N. Y. Felt base, linoleum, composition, and plastic floor coverings and rugs. Serial No. 640,434, Dec. 22. Class 20.

Boyle-Midway Inc., New York, N. Y. Plastic preparation used in glazing operations and similar work of house construction. Serial No. 649,117, Dec. 22. Class 12.

Brenner, Philip, Associates, Inc., New York, N. Y. Sponge rubber mat. Serial No. 641,494, Dec. 22. Class 50.

Brightly Galvanized Products, Inc., Cicero, Ill. Coating metallic articles. Serial No. 618,621, Dec. 22. Class 103.

Budgie-Boy Products Co.: *See*—
Herman, Francis.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Anti-metabolic drug. Serial No. 647,991, Dec. 22. Class 18.

Burton Hosiery Mills, Lynchburg, Va. Hosiery. Serial No. 600,763, Dec. 22. Class 39.

California Grape Products Co., Ltd., New York, N. Y. Wines. Serial No. 598,349, Dec. 22. Class 47.

Capezio, Inc., New York, N. Y. Toe dancing slippers. Serial No. 645,775, Dec. 22. Class 39.

Cappel, MacDonald and Company, Dayton, Ohio. Sales promotion of customer's goods and services. Serial No. 625,192, Dec. 22. Class 101.

Carnation Company, Los Angeles, Calif. Livestock and poultry feed. Serial No. 624,465, Dec. 22. Class 46.

Carr, Alva U., Ponca City, Okla. Lumber, shingles, plywood, etc. Serial Nos. 648,729–30, Dec. 22. Class 12.

Casimir Funk Laboratories, Inc., New York, N. Y. Pharmaceutical compound. Serial No. 648,649, Dec. 22. Class 18.

Champ Hats, Inc., Philadelphia, Pa. Men's and boys' hats and caps. Serial No. 647,158, Dec. 22. Class 39.

Charak Furniture Company, Boston, Mass. Tables. Serial No. 645,546, Dec. 22. Class 32.

Cie Franco-Australienne de Laines Filees (Societe a Responsabilite Limitee), Roubaix, Nord, France. Yarns. Serial No. 649,124, Dec. 22. Class 43.

Cincinnati Milling Machine Co., The, Cincinnati, Ohio. Machines for drawing shapes in sheet metal. Serial No. 633,036, Dec. 22. Class 23.

Cleveland Industrial Tool Company, Inc., Euclid, Cleveland, Ohio. Hydraulically operated diamond turning tool. Serial No. 633,037, Dec. 22. Class 23.

Const Metals, Inc., Little Ferry, N. J. Hard facing welding rods, wear-resistant castings and metal powders. Serial No. 648,294, Dec. 22. Class 14.

Cohen, Philip, trading under the name The Phillocraft Co., Philadelphia, Pa. Work tables. Serial No. 632,417, Dec. 22. Class 32.

Columbia Broadcasting System, Inc., New York, N. Y. Representing independent radio broadcasting stations in the sale of radio time, talent and program materials. Serial No. 625,660, Dec. 22. Class 101.

Commonwealth Color & Chemical Company, New York, N. Y. Product containing a homologue of phenol coupled with an alkyl ester in an alkaline medium, etc. Serial No. 625,253, Dec. 22. Class 6.

Compagnie Franco-Australienne de Laines Filees (Societe a Responsabilite Limitee), Roubaix, Nord, France. Woolen yarns. Serial No. 649,127, Dec. 22. Class 43.

Continental Check Corporation, Wilmington, Del. Issuing and redeeming money orders. Serial No. 637,986, Dec. 22. Class 102.

Cory Jane Originals, Inc., Indianapolis, Ind. Resilient bands for supporting clamp-on aprons and the like. Serial No. 649,634, Dec. 22. Class 40.

Crocker, H. S., Company, Inc., San Francisco, Calif. Cartograph maps. Serial No. 646,273, Dec. 22. Class 38.

Crown Fabrics Corporation, New York, N. Y. Cotton, spun rayon and spun acetate fabrics and mixtures thereof. Serial No. 649,486, Dec. 22. Class 42.

Crump, B. T., Company, Inc., Richmond, Va. Glider cushions, glider arm pillows, porch chair cushions, etc. Serial No. 643,468, Dec. 22. Class 32.

Diamond Calk Horseshoe Co., Duluth, Minn. Pitching shoes. Serial No. 634,968, Dec. 22. Class 22.

Diamond Calk Horseshoe Co., Duluth, Minn. Pitching shoes. Serial No. 634,970, Dec. 22. Class 22.

Dunleavy, James F., Waltham, Mass. Filing supplies. Serial No. 652,382, Dec. 22. Class 37.

Du-Tri Home Products, Chicago, Ill. Fork-like hand operated implements for handling wet laundry. Serial No. 638,291, Dec. 22. Class 24.

Eagle Clothes, Inc., Brooklyn, N. Y. Men's clothing. Serial No. 648,826, Dec. 22. Class 39.

Eagle Pencil Company, New York, N. Y. Erasers and lead pencils. Serial No. 648,598, Dec. 22. Class 37.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Sensitized photographic film. Serial No. 611,414, Dec. 22. Class 26.

Easton, James D., Los Angeles, Calif. Archery arrows. Serial No. 650,162, Dec. 22. Class 22.

Edson, Incorporated, Chicago, Ill. Pillows, chair seat covers, chair seat pads and cushions, etc. Serial No. 641,654, Dec. 22. Class 32.

English, Harold, doing business as Prestix Products, Chicago, Ill. Transparent self-adhering sheets. Serial No. 641,612, Dec. 22. Class 38.

Eye Sight Educational Co., Littleton, Colo. Game boards. Serial No. 651,231, Dec. 22. Class 22.

F & F Laboratories, Inc., Chicago, Ill. Candy. Serial No. 632,081, Dec. 22. Class 46.

Federal Telecommunication Laboratories, Inc., Nutley, N. J. Slotted transmission line for making electrical measurements, etc. Serial No. 648,165, Dec. 22. Class 26.

Federated Department Stores, Inc., doing business under the name Bloomingdale Bros., Cincinnati, Ohio, and New York, N. Y. Wines. Serial No. 642,536, Dec. 22. Class 47.

Feustel, Ernest A., Inc., Lodi, N. J. Thread guide tube for textile machinery. Serial No. 622,386, Dec. 22. Class 23.

Fine Art Pillow & Specialties Co., New York, N. Y. Heat insulating padded quilted fabric pockets. Serial No. 646,858, Dec. 22. Class 2.

Firestone Tire & Rubber Company, The, Akron, Ohio. Upholstery fabrics. Serial No. 644,207, Dec. 22. Class 42.

Flex-O-Lap Corporation, San Francisco, Calif. Oscillating couplings. Serial No. 648,659, Dec. 22. Class 23.

Florio & C.: *See*—
Soc. An. Vinicola Italiana Florio-Ingham Whitaker-Woodhouse & C.

Flyex Distributors, Washington, D. C. Electric bulbs. Serial No. 651,325, Dec. 22. Class 21.

Fritz & Larue Company, The, New York, N. Y. Woven and/or knotted rugs and carpets. Serial No. 648,988, Dec. 22. Class 42.

Gates, Miriam, Incorporated, Buffalo, N. Y. Brassières. Serial No. 646,935, Dec. 22. Class 39.

Gay Toys, Inc., Detroit, Mich. Toy vacuum cleaners. Serial No. 651,578, Dec. 22. Class 22.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial No. 648,016, Dec. 22. Class 28.

Gemex Company Union, N. J. Bracelets and watch bracelets and watch straps. Serial No. 648,747, Dec. 22. Class 28.

General Electric Company, Schenectady, N. Y., and elsewhere. Metallic conduits or housings for electrical conductors and parts thereof. Serial No. 637,309, Dec. 22 Class 21.
Gillette Company, The, Gillette Park, Boston, Mass. Counter display racks. Serial No. 645,800, Dec. 22. Class 32.
Gladwin Plastics Co., Atlanta, Ga. Fabriention of plastic materials. Serial No. 646,938, Dec. 22. Class 106
Globe Roofing Products Co., Inc., Whiting, Ind. Asphaltic composition roll roofing, asphaltic composition shingles, insulating board, etc. Serial No. 649,361, Dec. 22. Class 12.
Goerlich's, Toledo, Ohio. Mufflers for use with internal combustion engines and extensions for tail pipes. Serial No. 632,934, Dec. 22. Class 23
Goldberg, Abe, New York, N. Y. Sun tan lotion. Serial No. 648,243, Dec. 22. Class 51.
Gray Research and Development Company, Inc., Hartford, Conn. Optical projectors for transparencies. Serial No. 648,394, Dec. 22. Class 26.
Graystan Products: *See*— Hunsberger, L. Stanley.
Great Lakes Transatlantic, Inc., Chicago, Ill. Transportation by ship of packaged freight and other cargo. Serial No. 642,348, Dec. 22. Class 105
Handcraft Company, Inc., Princeton, Wis. Socks. Serial No. 627,744, Dec. 22. Class 39.
Harris, Charles W., Painesville, Ohio. Flower pots. Serial No. 580,193, Dec. 22. Class 30
Herman, Francis, doing business as Budgie-Boy Products Co., Detroit, Mich. Parakeet toys. Serial No. 635,225, Dec. 22. Class 22.
Hodgman Rubber Company, Framingham, Mass. Pneumatic mattresses. Serial No. 639,226, Dec. 22. Class 32.
Howe Scale Company, The, Rutland, Vt. Platform skids. Serial No. 649,305, Dec. 22. Class 50.
Hunsberger, L. Stanley, doing busniess as Graystan Products, Philadelphia, Pa. Cutouts of glass fiber sheets. Serial No. 628,535, Dec. 22. Class 50.
Indestro Manufacturing Corp., Chicago, Ill. Socket wrenches, soc'et wrench sets, socket wrench kits, etc. Serial No. 621,268, Dec. 22. Class 23.
Infilco Incorporated, Tucson, Ariz. Anion exchange units. Serial No. 647,074, Dec. 22. Class 31.
Infilco Incorporated, Tucson, Ariz. Cation exchange units. Serial No. 647,075, Dec. 22. Class 31.
International Association of Milk and Food Sanitarians, Inc., Shelbyville, Ind. Bi-monthly publication. Serial No. 649,786, Dec. 22. Class 38
International Brass and Copper Co., Inc., New York, N. Y. Fiber wall board. Serial No. 628,944, Dec. 22. Class 12.
Irving Subway Grating Company, Oakland, Calif. Subway gratings. Serial No. 648,999, Dec. 22. Class 12
Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Wire rope. Serial No. 643,338, Dec. 22. Class 7.
Keasbey & Mattison Company, Ambler, Pa. Asbestos composition shingles, slates, tiles, etc. Serial No. 633,155, Dec. 22. Class 12.
Kelley, Ralph D., Paint Company, Chicago, Ill. Paint. Serial No. 638,366, Dec. 22. Class 16
Kennedy Minerals Company, Inc., Los Angeles, Calif. Sheridanite, a magnesium aluminum silicate mineral. Serial No. 645,160, Dec. 22. Class 1
Kenton Pharmacal Co., The, Covington, Ky. Medicinal preparation. Serial No. 649,160, Dec. 22. Class 18.
Knit-King Corporation, New York, N. Y. Knitted fabrics. Serial No. 647,631, Dec. 22. Class 42
Kurbi & Niggeloh, Radevormwald, Rhineland, Germany. Photographic apparatus. Serial No. 639,278, Dec. 22. Class 26
Leon, L., Co., Inc., The, Massapequa, N. Y. Curl clips. Serial No. 642,149, Dec. 22. Class 40.
Llen Chemical Company, Franklin Park, Ill. Sanitation services. Serial No. 610,694, Dec. 22. Class 103.
Lowenstein, M., & Sons, Inc., New York, N. Y. Piece goods. Serial No. 649,375, Dec. 22. Class 42.
Long, Vincent P., Omaha, Nebr. Pneumatic tires, pneumatic inner-tubes, etc. Serial No. 628,414, Dec. 22. Class 35
Loxit Systems Inc., Chicago, Ill. Metal shims. Serial No. 634,260, Dec. 22. Class 35
MacGregor Fisheries Inc., New York, N. Y. Smoked and frozen fish. Serial No. 641,312, Dec. 22. Class 46
MacMillan & Bloedel Limited, Vancouver, British Columbia, Canada. Lumber. Serial No. 648,767, Dec. 22. Class 12
Magnesium Company of America (Incorporated), East Chicago, Ind. Dockboards and barrel skids. Serial No. 616,858, Dec. 22. Class 50.
Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts. Serial No. 638,964, Dec. 22. Class 39.
Mariman Products Company, Inc., Los Angeles, Calif. Band clamps, V band couplings, tube couplings, etc. Serial No. 636,854, Dec. 22. Class 13
Mathieson Chemical Corporation, New York, N. Y. Medicinal dietary supplement. Serial No. 648,612, Dec. 22. Class 18.
Mead Johnson & Company, Evansville, Ind. Formulation of essential food constituents. Serial No. 642,152, Dec. 22. Class 46.
Merrell, Wm. S., Company, The, Cincinnati and Reading, Cincinnati, Ohio. Periodical. Serial No. 647,576, Dec. 22. Class 38.
Merrimack Manufacturing Company, (1952), Lowell, Mass. Textile fabrics. Serial No. 641,316, Dec. 22. Class 42.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coated abrasives. Serial No. 647,944, Dec. 22 Class 4.
Minnesota and Ontario Paper Company, Minneapolis, Minn. Surface coated fiber composition board and fiberboard tile and plank. Serial No. 591,943, Dec. 22. Class 12.
Modern Color, Inc., Los Angeles, Calif. Chairs. Serial No. 634,379, Dec. 22. Class 32.
Modern Foam Rubber Company, New York and Franklin Square, N. Y. Foam rubber mattresses, box springs and head boards, settees, etc. Serial No. 644,860, Dec. 22. Class 32.
Mother Ann's Preparations: *See*— Schutzbank, Victor.
National Gypsum Company, Buffalo, N. Y. Expanded metal lath corner reinforcement. Serial No. 648,874, Dec. 22. Class 12.
National Health Aids of Baltimore, Inc., Baltimore, Md., now by change of name Charles Antell, Inc. Vitamin and mineral food supplement. Serial No. 648,321, Dec 22. Class 18.
National Hygienic Products Corp., Akron, Ohio. Prophylactic rubber articles. Serial No. 638,596, Dec. 22. Class 44.
Northwest Airlines, Inc., St. Paul, Minn. Air transportation. Serial No. 641,857, Dec. 22. Class 105.
No-Sag Spring Company, Detroit and Warren Township, Mich. Pair of pivoted plates having raceways for ball bearings. Serial No. 620,014, Dec. 22. Class 13.
Old 97 Company: *See*— Old 97 Manufacturing Company.
Old 97 Manufacturing Company, doing business as Old 97 Company, Tampa, Fla. Hair dressing. Serial No 629,383, Dec 22. Class 51.
Opalite, Inc., Philadelphia, Pa. Pendant. Serial No 647,647, Dec 22. Class 28.
Paper Products Company: *See*— Smith, Omer J.
Parnes, Samuel, & Sons, Inc., New York, N. Y. Ladies' and misses' outer pleated skirts. Serial No. 649,608, Dec. 22. Class 39.
Perel & Lowenstein, Inc., Memphis, Tenn. Watches. Serial No. 648,945, Dec. 22. Class 27.
Phillips Petroleum Company, Bartlesville, Okla. Hydrogenated rubbery polymers. Serial No. 627,354, Dec. 22. Class 6.
Philocraft Co., The: *See*— Cohen, Philip.
Plymouth Undergarment Co., New York, N. Y. Ladies' lingerie. Serial No. 647,036, Dec. 22. Class 39.
Porcelain Enamel Institute, Inc., Washington, D. C. Establishing procedures for pre-shipment testing of packaged products for manufacturers. Serial No. 632,099, Dec. 22. Class 101.
Prestix Products: *See*— English, Harold.
Produx, Inc., Worcester, Mass. Bowling pins and caps therefor. Serial No. 641,207, Dec. 22. Class 22.
Quality Bedding Company, Huntington, W. Va. Mattresses and box springs. Serial No. 644,868, Dec. 22. Class 32.
Rademaker's Koninklijke Cacao-en Chocoladefabrieken N. V., The Hague, Netherlands. Coffee flavored candies. Serial No. 615,004, Dec. 22. Class 46.
Ranco Incorporated, Columbus, Ohio. Solenoid operated valves. Serial No. 634,164, Dec. 22. Class 21.
Rayon Cotton Mill Company, Saxapahaw and Wake Forest, N. C. Knitting yarns. Serial No. 646,316, Dec. 22. Class 43.
Reickenback, James, Port Arthur, Tex. Portable stand. Serial No. 646,167, Dec. 22. Class 32.
Revlon Products Corporation, New York, N. Y. Lipstick and nail enamel. Serial No. 648,134, Dec. 22. Class 51.
Rhode Island Textile Company, Pawtucket, R. I. Shoe laces, corset laces, and elastic braid. Serial No. 647,373, Dec. 22. Class 40.
Richardson Company, The, Lockland, Cincinnati, Ohio. Decorative laminated resinous sheet material. Serial No. 648,196, Dec. 22. Class 12.
Ripley Manufacturing Corp., New York, N. Y. Men's, women's, and younger men's clothing. Serial No. 644,347, Dec. 22. Class 39.
Rogers-United Corporation, New York, N. Y. Watches. Serial No. 648,568, Dec. 22. Class 27.
Rosenblum Bros. Company, The, Youngstown, Ohio. Metal awnings. Serial No. 649,186, Dec. 22. Class 12.
Rubin Glass & Mirror Co., Brighton, Mass. Mirror glass. Serial No. 620,827, Dec. 22. Class 33.
Safety Car Heating and Lighting Company, Inc., The, New York, N. Y. Electrical and electro-mechanical apparatus, electric lighting equipment. Serial No. 615,027, Dec. 22. Class 21.
Samfred Drug Company: *See*— Silber, Samuel.
Schutzbank, Victor, trading as Mother Ann's Preparations, Brooklyn, N. Y. Cold tablets. Serial No. 648,266, Dec. 22. Class 18.
Scola Dye Works, Inc., Hawthorne, N. J. Treating silk and other textile fabrics. Serial No. 636,656, Dec. 22. Class 106.

Sears, Roebuck and Co., Chicago, Ill. Men's and boys' suits, trousers, slacks, etc. Serial No. 649,025, Dec. 22. Class 39.
Servo Corporation of America, New Hyde Park, N. Y. Heat-responsive electrical elements and devices—namely bolometers, etc. Serial No. 606,902, Dec. 22. Class 26.
Shinderman Management Corporation, Chicago, Ill. Management of hotels, resorts and similar types of properties, etc. Serial No. 617,818, Dec. 22. Class 101.
Sicks' Seattle Brewing & Malting Co., Seattle, Wash. Beer. Serial No. 628,723, Dec. 22. Class 48.
Silber, Samuel, doing business as Samfred Drug Company, Newark, N. J. Harmless medicinal external application. Serial No. 648,699, Dec. 22. Class 18.
Silber Samuel, doing business as Samfred Drug Company, Newark, N. J. Analgesic tablets. Serial No. 648,700, Dec. 22. Class 18.
Simplex Products Incorporated, Detroit, Mich. Stabilizers for automotive vehicles. Serial No. 635,853, Dec. 22. Class 19.
Smith, Omer J., doing business as Paper Products Company, Cincinnati, Ohio. Collapsible paperboard cartons and boxes. Serial No. 633,241, Dec. 22. Class 2.
Smith, X. S., Inc., Red Bank, N. J. Pads formed of metallic filaments for garment pressing machines. Serial No. 639,846, Dec. 22. Class 24.
Soc. An. Vinicola Italiana Florio-Ingham Whitaker-Woodhouse & C., also doing business as Florio & C., Turin, Italy. Wines. Serial No. 620,530, Dec. 22. Class 47.
Solo Products Corporation, New York, N. Y. Barrettes, plastic hair curlers, non-electric metal hair curlers, etc. Serial No 613,885, Dec. 22. Class 40.
Soulé Steel Company, San Francisco and Los Angeles, Calif., Portland, Oreg., and Houston, Tex. Prefabricated steel buildings and steel building frames. Serial No. 554,825, Dec 22. Class 12.
Spero, Henry, Inc., Ansonia, Conn. Watches. Serial No. 648,334, Dec. 22. Class 27.
Sponge Rubber Products Company, The, Shelton, Conn. Closet bowl gaskets. Serial No. 627,647, Dec. 22. Class 35.
Staley, A. E., Manufacturing Company, Decatur, Ill. Laundry starch. Serial No. 624,903, Dec. 22. Class 6.
Standard Rewashed Wipers Co., Chicago, Ill. Rental of towels. Serial No. 641,220, Dec. 22. Class 100.
Steinhardt, A., & Bro. Inc., New York, N. Y. Ladies' hand bags. Serial No. 640,873, Dec. 22. Class 3.
Stenoscript Shorthand Institute, Washington, D. C. Teaching a method of shorthand. Serial No. 648,574, Dec 22. Class 107.
Stern Brothers, New York, N. Y. Blouse trees in the nature of a clothes hanger. Serial No. 639,508, Dec. 22. Class 50
Streamline Garment Corp., Chicago, Ill. Ladies' dresses. Serial No. 647,729, Dec. 22. Class 39.
Stresen-Reuter, Fred'k A., Inc., Chicago, Ill. Paints. Serial No. 623,483, Dec. 22. Class 16.
Strohmeyer & Arpe Company, New York, N. Y. Sweet gherkins. Serial No. 623,379, Dec. 22. Class 46.
Strohmeyer & Arpe Company, New York, N. Y. Monthly periodical. Serial No. 646,960, Dec. 22. Class 38.
Superior Separator Company, Hopkins, Minn. Air centrifuges. Serial No. 648,060, Dec. 22. Class 23.
Tanbro Fabrics Corp, New York, N. Y. Textile fabrics. Serial No. 639,345, Dec. 22. Class 42.
Tanbro Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 640,241, Dec. 22. Class 42.
Tangorra, John, New York, N. Y. Garment shoulder pads. Serial No. 640,763, Dec. 22. Class 40.
Tarzana Toy Company, Tarzana, Calif. Toy finger paints. Serial No. 630,289, Dec. 22. Class 22.
Texas Lawn Sprinkler Company, Inc., Dallas, Tex. Installation of automatic lawn sprinkler systems. Serial No. 625,375, Dec. 22. Class 103.
Tex-Son, Inc., San Antonio, Tex. Articles of wearing apparel. Serial No. 649,331, Dec. 22. Class 39.
Tigerman Engineering Company, Chicago, Ill. Annunciators. Serial No. 631,075, Dec. 22. Class 21.
Tynes, Richard H., doing business as Tynes Upholstering Company, Washington, D. C. Re-upholstering of furniture. Serial No. 635,943, Dec. 22. Class 103.
Tynes Upholstering Company: *See*— Tynes, Richard H.
Ultra-Violet Products, Inc., South Pasadena, Calif. Lamps. Serial No. 611,550, Dec. 22. Class 21.
United States Rubber Company, New York, N. Y. Latex overshoes. Serial No. 645,206, Dec. 22. Class 39.
Vanity Corset Company, Inc., New York, N. Y. Corsets, corselets, girdles, etc. Serial No. 649,551, Dec. 22. Class 39.
Victorian Furniture Corporation, Montgomery, Ala. Chairs. Serial No. 645,936, Dec. 22. Class 32.
Volt, W. J., Rubber Corp., Los Angeles, Calif. Tire repair materials. Serial No. 642,186, Dec. 22. Class 35.
Warwick Club Ginger Ale Co., Inc., West Warwick, R. I. Dietetic non-alcoholic maltless soft drink. Serial No 645,850, Dec. 22. Class 45.
Watson Manufacturing Company, Inc., Jamestown, N. Y. Filing cabinets, tables, hospital cabinet work, etc. Serial Nos. 598,138–9, Dec. 22. Class 32.
Weather-Lock Company, The, Willoughby, Ohio. Combination storm windows and doors. Serial No. 617,686, Dec. 22. Class 12.
Westminster Shoe Co. Inc., Westminster, Md. Shoes. Serial No. 610,532, Dec. 22. Class 39.
Williamson Candy Company, Chicago, Ill. Candy. Serial No. 648,222, Dec. 22. Class 46.
Zeuthen & Aagnard A./S., Copenhagen, Denmark. Duplicating machines. Serial No. 633,343, Dec. 22. Class 23.
Zynolyte Products Co., Los Angeles, Calif. Rubber base paint, also rubber base paint reducer. Serial No. 647,681, Dec. 22. Class 16.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. 583,814, Dec. 22; Serial No. 627,236, published Sept. 8, 1953. Class 18.
Adam Hat Stores, Inc., New York, N. Y. Men's and boys' hats and caps, dress shirts, outer and under shirts, etc. 583,880, Dec. 22; Serial No. 638,127, published Sept. 1, 1953. Class 39.
Adero Silk Inc., New York, N. Y. Woven and knitted cotton, silk, and rayon fabrics. 583,782, Dec. 22; Serial No. 614,916, published Sept. 29, 1953. Class 42.
Alabastine Company, Grand Rapids, Mich., to A. A. Schwartz, Chicago, Ill. Base in the form of a dry powder for making a paint and a wall-coating. 94,538, re-renewed Dec. 16, 1953. O. G. Dec. 22. Class 16.
Alabastine Company, Grand Rapids, Mich., to A. A. Schwartz, Chicago, Ill. Paints and wall-coatings. 309,671, renewed Jan. 23, 1954. O. G. Dec. 22. Class 16.
Albert Frank-Guenther Law Inc., New York, N. Y. House magazine. 583,978, Dec. 22; Serial No. 645,411, published Sept. 29, 1953. Class 38.
Alden Mills, New Orleans, La., to Aldens, Inc., Chicago, Ill. Woven and knitted goods, piece goods, shirtings, etc. 92,028, re-renewed June 17, 1953. O. G. Dec. 22. Class 42.
Aldens, Inc.: *See*— Alden Mills.
Alfa Romeo Società per Azioni, Milan, Italy. Car bodies, motor cars, motor cycles, etc. 583,994–5, Dec. 22; Serial Nos. 646,099–100, published Sept. 29, 1953. Class 19.
American Automobile Association, The, Washington, D. C. Road signs, emblems, and badges. 303,862, renewed June 13, 1953. O. G. Dec. 22. Class 50.
American Crayon Company, The, Sandusky, Ohio. Modeling clay. 309,192, renewed Jan. 9, 1954. O. G. Dec. 22. Class 1.
American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Cabinets. 583,919, Dec. 22; Serial No. 641,488, published Sept. 29, 1953. Class 2.
American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Paper towels. 583,934, Dec. 22; Serial No. 642,337, published Sept. 29, 1953. Class 37.
American Medicinal Spirits Company, The, Louisville, Ky., to National Distillers Products Corporation, New York, N. Y. Whiskey. 310,076, renewed Feb. 13, 1954. O. G. Dec. 22. Class 49.
American Oil Chemists' Society, The, New Orleans, La., and Chicago, Ill., to The American Oil Chemists' Society, Chicago, Ill. Monthly magazine. 305,559, renewed Aug. 22, 1953. O. G. Dec. 22. Class 38.
Ames, O., Co.: *See*— Baldwin Tool Works.
Andrews, O. B., Company, Chattanooga, Tenn. Paperboard shipping cases and folding cartons. 583,862, Dec. 22; Serial No. 635,672, published Sept. 29, 1953. Class 2.
Anthracite Equipment Corporation, Wilkes-Barre, Pa. Carbonaceous powder used to assist in filtering. 583,882, Dec. 22; Serial No. 638,564, published Aug. 18, 1953. Class 31.
Archer Label Company: *See*— Contact Products, Inc.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Eyelash make-up, lip rouge, foundation cream, etc. 584,030, Dec. 22; Serial No. 644,952. Class 51.
Aristocrat Leather Products, Inc., New York, N. Y. Wallets or billfolds and ladies' handbags. 583,774, Dec. 22; Serial No. 605,084, published Sept. 29, 1953. Class 3.
Armstrong Cork Company, Lancaster, Pa. Magazine. 583,996, Dec. 22; Serial No. 646,104, published Sept. 29, 1953. Class 38.

Arrow Safety Device Company, Mount Holly, N. J. Electrical directional signals. 583,835, Dec. 22; Serial No. 631,089, published Sept. 22, 1953. Class 21.

B. B. Chemical Co., Boston, Mass. Patching material. 583,798, Dec. 22; Serial No. 622,766, published Sept. 29, 1953. Class 5.

Baldwin Tool Works by O. Ames Co., Parkersburg, W. Va. Shovels, spades, scoops, etc. 173,433, Sept. 25, 1923. Republished Dec. 22. Class 23.

Barclay & Barclay to Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Dentifrice. 93,516, renewed Sept. 23, 1953. O. G. Dec. 22. Class 51.

Barwick, E. T., Mills: *See*—
Barwick, Eugene T.

Barwick, Eugene T., doing business as E. T. Barwick Mills, Chamblee, Ga. Cotton rugs and carpeting. 583,998, Dec. 22; Serial No. 646,353, published Sept. 22, 1953. Class 42.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets. 583,974, Dec. 22; Serial No. 644,957, published Sept. 22, 1953. Class 42.

Beam, James B., Distilling Co., Chicago, Ill. Whiskey. 583,845, Dec. 22; Serial No. 632,587, published Sept. 29, 1953. Class 49.

Beatty, Clarence A., San Francisco, Calif. Fried chicken and prepared meals. 583,871, Dec. 22; Serial No. 636,269, published Sept. 29, 1953. Class 46.

Beaumart Co., New York, N. Y. Ladies' and misses' dresses. 583,986, Dec. 22; Serial No. 645,690, published Sept. 15, 1953. Class 39.

Beaunit Mills, Inc., New York, N. Y. Thread and yarn. 583,984–5, Dec. 22; Serial Nos. 635,739–40, published Sept. 22, 1953. Class 43.

Beautee-Fit Company, Los Angeles, Calif. Brassières, foundation garments, girdles, etc. 583,855, Dec. 22; Serial No. 634,442, published Sept. 22, 1953. Class 39.

Beckett, T. F., & Company (Fairistytch) Limited, Glasgow and Ruchill, Glasgow, Scotland. Traycloths, trolley cloths, serviettes, etc. 583,872, Dec. 22; Serial No. 636,963, published Sept. 29, 1953. Class 40.

Bell Brand Foods, Ltd., Vernon, Calif. Potato chips, deep-fried cheese-flavored cornmeal product, corn-chips, etc. 583,770–2, Dec. 22; Serial Nos. 604,139–41, published Sept. 29, 1953. Class 46.

Bell and Thorne, Inc., Newark, N. J. Germicide. 583,827, Dec. 22; Serial No. 629,717, published Sept. 8, 1953. Class 18.

Bellman Brook Bleachery Co., Fairview, N. J. Cotton fabrics. 308,601, renewed Dec. 12, 1953. O. G. Dec. 22. Class 42.

Bendix Aviation Corporation, Detroit, Mich. Vehicle brakes. 583,790, Dec. 22; Serial No. 618,725, published Sept. 29, 1953. Class 19.

Blackman, J. E., doing business as Hydrozo Products Co., Lincoln, Nebr. Colorless, penetrating, pore-filling solution for waterproofing and preserving masonry and wood. 393,757, Mar. 3, 1942. Republished Dec. 22. Class 12.

Blake, Dal, doing business as Gregg Tool Company, Gladewater, Tex. Decoy setter. 583,908, Dec. 22; Serial No. 641,121, published Sept. 1, 1953. Class 22.

Blum, D., & Co. Inc., New York, to D. Blum & Co., Incorporated, Long Island City, N. Y. Dry cleaning fluids. 309,995, renewed Feb. 6, 1954. O. G. Dec. 22. Class 52.

Blum, D., & Co., Incorporated: *See*—
Blum, D., & Co. Inc.

Boehme Fettchemie G. m. b. H.: *See*—
Böhme, H. Th., Aktiengesellschaft.

Böhme, H. Th., Aktiengesellschaft, Chemnitz, to Boehme Fettchemie G. m. b. H., Duesseldorf-Holthausen, Germany. Soap preparations. 303,348, renewed May 23, 1953. O. G. Dec. 22. Class 52.

Böhme, H. Th., Aktiengesellschaft, Chemnitz, to Boehme Fettchemie G. m. b. H., Duesseldorf-Holthausen, Germany. Soap preparations. 305,892, renewed Aug. 29, 1953. O. G. Dec. 22. Class 52.

Bologna, A., & Company, New Orleans, La. Wines. 583,783, Dec. 22; Serial No. 615,682, published Sept. 15, 1953. Class 47.

Boyle-Midway Inc., Jersey City, N. J. Hand operated sprayers. 583,763, Dec. 22; Serial No. 581,515, published Jan. 15, 1952. Class 23.

British Pens Limited, Smethwick, Birmingham, England. Pens and pencils. 583,868, Dec. 22; Serial No. 635,898, published Sept. 29, 1953. Class 37.

Brown, Colonel L., New York, N. Y. Periodical. 583,869, Dec. 22; Serial No. 635,993, published Sept. 29, 1953. Class 38.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Periodical publication column. 583,764, Dec. 22; Serial No. 597,319, published Sept. 29, 1953. Class 38.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Plastic airplane parts. 584,027, Dec. 22; Serial No. 641,762. Class 19.

Buckeye Brewing Co., The, Toledo, Ohio. Ale. 583,938, Dec. 22; Serial No. 642,522, published Sept. 15, 1953. Class 48.

Burlington Mills Corporation, Greensboro, N. C. Fabrics. 584,006, Dec. 22; Serial No. 646,518, published Sept. 29, 1953. Class 42.

Burton, John S., Sherman, Tex., to Rexall Drug Company, Los Angeles, Calif. Liniment. 39,739, re-renewed Feb. 3, 1953. O. G. Dec. 22. Class 18.

California Cellars, doing business as Napa & Sonoma Wine Co., Sonoma and San Francisco, Calif. Wines. 583,941, Dec. 22; Serial No. 642,942, published Sept. 15, 1953. Class 47.

Carter Products, Inc., New York, N. Y. Personal deodorant. 583,896, Dec. 22; Serial No. 640,192, published Sept. 29, 1953. Class 51.

Casimir Funk Laboratories, Inc., New York, N. Y. Preparation comprising in combination a mixture of estrogenic and androgenic hormones, with multivitamins, etc. 583,930, Dec. 22; Serial No. 641,907, published Aug. 11, 1953. Class 18.

Chain Belt Company, Milwaukee, Wis. Chain belt. 94,883, re-renewed Jan. 13, 1954. O. G. Dec. 22. Class 23.

Chemstrand Corporation, The, Decatur, Ala. Yarns, threads, and yarn and thread filaments. 583,881, Dec. 22; Serial No. 638,134, published Sept. 15, 1953. Class 43.

Chess, Mary, Inc., to Mary Chess, Incorporated, New York, N. Y. Toilet preparation. 307,470, renewed Oct. 24, 1953. O. G. Dec. 22. Class 51.

Chess, Mary, Incorporated: *See*—
Chess, Mary, Inc.

Chichester Chemical Co., Philadelphia, Pa. Product for the relief of menstrual pain. 583,925, Dec. 22; Serial No. 641,657, published Sept. 15, 1953. Class 18.

Chris-Cards: *See*—
Elm City Photo Co.

Cincinnati Oil Works Co., The, Cincinnati, Ohio. Granular material to soak up spillages on floors. 583,762, Dec. 22; Serial No. 576,446, published Nov. 6, 1951. Class 6.

Coal Processing Company, The, Cleveland, Ohio. Preparation for the treatment of coal. 306,145, renewed Sept. 12, 1953. O. G. Dec. 22. Class 6.

Coats & Clark Inc.: *See*—
Coats, J. & P. Inc.

Coats, J. & P., Inc., Wilmington, Del., now by merger Coats & Clark Inc. Thread. 583,833, Dec. 22; Serial No. 630,989, published Sept. 29, 1953. Class 43.

Cogg Manufacturers, Inc., Tulsa, Okla. Electrically operated cutout switch. 584,028, Dec. 22; Serial No. 643,465. Class 21.

Coldin Cabinet Company, Inc., New York, N. Y. Frozen food cabinets, refrigerating dairy wall cases, refrigerating full vision display cases, etc. 583,805–6, Dec. 22; Serial Nos. 625,460–1, published Aug. 18, 1953. Class 31.

Coler, Myron A., doing business as The Markite Company, New York, N. Y. Insulators. 583,973, Dec. 22; Serial No. 644,898, published Sept. 22, 1953. Class 21.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 309,496, renewed Jan. 16, 1954. O. G. Dec. 22. Class 52.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap dispensers. 309,783, renewed Jan. 30, 1954. O. G. Dec. 22. Class 13.

Columbus Show Case Company The, Columbus, Ohio. Show and display cases. 583,937, Dec. 22; Serial No. 642,462, published Sept. 15, 1953. Class 32.

Conklin Products Corporation, Los Angeles, Calif. Base holders. 583,953, Dec. 22; Serial No. 643,655, published Sept. 29, 1953. Class 2.

Consolidated Commodities, Inc., New York, N. Y. Garment bags and shoe bags. 583,791, Dec. 22; Serial No. 619,332, published Sept. 29, 1953. Class 2.

Contact Products, Inc., doing business as Archer Label Company, Pasadena, Calif. Printed labels. 583,893, Dec. 22; Serial No. 640,067, published Sept. 29, 1953. Class 38.

Container Corporation of America, Chicago, Ill. Moisture resistant paperboard boxes and covers therefor. 583,876, Dec. 22; Serial No. 637,427, published Sept. 29, 1953. Class 2.

Continental Can Company Inc., assignee: *See*—
Shellmar Products Corporation.

Cook, L. P.: *See*—
Cook, Lucius P.

Cook, L. P., & Son, Inc.: *See*—
Cook, Lucius P.

Cook, Lucius P., doing business as L. P. Cook, by L. P. Cook & Son, Inc., Memphis, Tenn. Field seeds. 329,804, Nov. 12, 1935. Republished Dec. 22. Class 1.

Craddock-Terry Co., to Craddock-Terry Shoe Corporation, Lynchburg, Va. Shoes. 306,479, renewed Sept. 19, 1953. O. G. Dec. 22. Class 39.

Craddock-Terry Shoe Corporation: *See*—
Craddock-Terry Co.

Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Cherry liqueur. 583,787, Dec. 22; Serial No. 617,711, published Sept. 8, 1953. Class 49.

Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris France. Apricot liqueur. 583,788, Dec. 22; Serial No. 617,712, published Sept. 8, 1953. Class 49.

Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France. Alcoholic liqueurs. 583,789, Dec. 22; Serial No. 617,715, published Sept. 15, 1953. Class 49.

Dazian's, Inc., New York, N. Y. Decorative streamers. 583,829, Dec. 22; Serial No. 630,392, published Sept. 22, 1953. Class 50.

De Havilland Aircraft Company Limited, The, Hatfield, England. Airplanes and structural parts thereof. 583,957–8, Dec. 22; Serial Nos. 644,016–17, published Sept. 8, 1953. Class 19.

Dell, Abraham, Los Angeles, Calif. Powder puffs. 584,011, Dec. 22; Serial No. 649,872, published Sept. 29, 1953. Class 29.

Dell Publishing Company, Inc., New York, N. Y. Magazine. 583,988, Dec. 22; Serial No. 645,782, published Sept. 29, 1953. Class 38.

Delmond Pharmaceutical Corporation, assignee: *See*—
Italian Drugs Importing Co., Inc.

Dempster Brothers, Inc., Knoxville, Tenn. Storage and transporting containers. 583,794, Dec. 22; Serial No. 622,015, published Sept. 29, 1953. Class 2.

Denver Chemical Manufacturing Company, The, New York, N. Y. Medicated rub. 583,905, Dec. 22; Serial No. 640,919, published Sept. 15, 1953. Class 18.

Diamond State Distilling Company: *See*—
Laird & Company.

Di Mare Bros., Boston and South Boston, Mass. Whole, fresh tomatoes, shelled and unshelled nuts. 583,803, Dec. 22; Serial No. 624,131, published Feb. 24, 1953. Class 46.

Dorian Handbags, New York, N. Y. Handbags. 583,910, Dec. 22; Serial No. 641,178, published Sept. 29, 1953. Class 3.

Dowell Incorporated, Tulsa, Okla. Well treating services. 584,015, Dec. 22; Serial No. 638,639, published Sept. 29, 1953. Class 103.

Drake Merchandising Company, Chicago, Ill. Periodical. 583,959, Dec. 22; Serial No. 644,020, published Sept. 29, 1953. Class 38.

Drug Products Co., Inc., The, East Orange, N. J. Medicinal skin lotion. 583,800, Dec. 22; Serial No. 623,827, published Sept. 15, 1953. Class 18.

Du-L-Spark Co.: *See*—
Hove, L. Ray.

Dunlet Cycle Company Limited, Birmingham and Smethwick, Birmingham, England. Pedal cycles and motor cycles and parts of and fittings therefor. 583,823, Dec. 22; Serial No. 628,679, published Sept. 29, 1953. Class 19.

Dunlap, Lucy W., Belton, Mo. Boys' outer shirts. 583,928, Dec. 22; Serial No. 641,768, published Sept. 1, 1953. Class 39.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Lacquers and pyroxylin enamels. 305,531, Aug. 22, 1933. Republished Dec. 22. Class 16.

Edwards-Freeman, Inc., Philadelphia, Pa. Dried fruits and evaporated fruits. 583,906, Dec. 22; Serial No. 640,925, published Sept. 8, 1953. Class 46.

Elm City Photo Co., doing business as Chris-Cards, New Haven, Conn. Greeting cards. 583,931, Dec. 22; Serial No. 642,024, published Sept. 29, 1953. Class 38.

Emeco Corporation, Hanover, Pa. Folding aluminum tables. 583,960, Dec. 22; Serial No. 644,164, published Sept. 29, 1953. Class 32.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Dyes. 583,820, Dec. 22; Serial No. 628,269, published Oct. 28, 1952. Class 6.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Threads and yarns. 583,867, Dec. 22; Serial No. 635,824, published Sept. 29, 1953. Class 43.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Sensitized photographic papers. 584,017, Dec. 22; Serial No. 619,967. Class 26.

Farm Journal, Inc., Philadelphia, Pa. Magazine section. 583,977, Dec. 22; Serial No. 645,405, published Sept. 29, 1953. Class 38.

Ferguson, Edgar A., Jr., Brooklyn, N. Y. Appetite satient compositions. 583,884, Dec. 22; Serial No. 638,795, published Sept. 8, 1953. Class 18.

Finch, Joseph S. and Company, also doing business as The Gibson Distilling Company, New York, N. Y. Whiskey. 583,776, Dec. 22; Serial No. 607,896, published Sept. 15, 1953. Class 49.

Fischer, Phil, Company: *See*—
Fischer, Philip.

Fischer, Philip, doing business as Phil Fischer Company, Chicago, Ill. Antiseptic, hemostatic, and styptic ointment. 583,842, Dec. 22; Serial No. 632,363, published Sept. 15, 1953. Class 18.

Flint Company, Kansas City, Mo. Articles of jewelry. 584,019–20, Dec. 22; Serial Nos. 629,100–1. Class 28.

Friars of the Atonement, Inc., Garrison, N. Y. Mass card folders. 583,785, Dec. 22; Serial No. 616,852, published Sept. 29, 1953. Class 38.

Fuld Bros., Inc., Baltimore, Md. Automobile top dressing, cream silver polish, dairy detergents, etc. 306,888, renewed Oct. 3, 1953. O. G. Dec. 22. Class 4.

Fuld Bros., Inc., Baltimore, Md. Automobile polish, automobile wax, concrete hardener, etc. 307,111, renewed Oct. 17, 1953. O. G. Dec. 22. Class 4.

Fuld Bros., Inc., Baltimore, Md. Antifreeze composition, bed bug exterminator preparation, boiler compounds, etc. 307,296, renewed Oct. 24, 1953. O. G. Dec. 22. Class 52.

Fuller, D. B., & Co., Inc., New York, N. Y. Cotton fabrics. 583,989, Dec. 22; Serial No. 645,796, published Sept. 22, 1953. Class 42.

Gabriel & Jos. Sedlmayr Spaten-Franziskaner Leistbräu A.-G. München, by Gabriel Sedlmayr Spaten-Franziskaner-bräu Aktiengesellschaft München, Munich, Germany. Beer. 331,061, Dec. 24, 1935. Republished Dec. 22. Class 48.

Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München, by Gabriel Sedlmayr Spaten-Franziskaner-bräu Aktiengesellschaft München, Munich, Germany. Malt beverage. 304,894, July 18, 1933. Republished Dec. 22. Class 48.

Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München, by Gabriel Sedlmayr Spaten-Franziskaner-bräu Aktiengesellschaft München, Munich, Germany. Beer. 335,590, June 9, 1936. Republished Dec. 22. Class 48.

Gabriel Sedlmayr Spaten-Franziskaner-bräu Aktiengesellschaft München: *See*—
Gabriel & Jos. Sedlmayr Spaten-Franziskaner Leistbräu A.-G. München.
Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München.

Gibson Distilling Company, The: *See*—
Finch, Joseph A., and Company.

Gladding, McBean & Co., Los Angeles, Calif. Refractory shapes and heat resisting formed clay bodies. 583,784, Dec. 22; Serial No. 615,978, published Sept. 29, 1953. Class 12.

Gleitsman's, Inc., Long Island City, N. Y. Hampers. 583,961, Dec. 22; Serial No. 644,171, published Sept. 29, 1953. Class 2.

Goldstein Millinery Company, Chicago, Ill. Women's hats. 583,860, Dec. 22; Serial No. 635,472, published Sept. 1, 1953. Class 39.

Good Publishing Company, Fort Worth, Tex. True story magazine. 583,888, Dec. 22; Serial No. 639,166, published Sept. 29, 1953. Class 38.

Good Publishing Company, Fort Worth, Tex. Magazine. 583,927, Dec. 22; Serial No. 641,722, published Sept. 1, 1953. Class 38.

Goodall-Sanford, Inc., Sanford, Maine. Piece goods. 583,999–584,001, Dec. 22; Serial Nos. 646,380–2, published Sept. 22, 1953. Class 42.

Goodall-Sanford, Inc., Sanford, Maine. Piece goods. 584,002–3, Dec. 22; Serial Nos. 646,386–7, published Sept. 22, 1953. Class 42.

Gould-National Batteries, Inc., St. Paul, Minn. Storage batteries. 583,846, Dec. 22; Serial No. 632,784, published Sept. 29, 1953. Class 21.

Gracey, Lawrence B., Newport Beach, Calif. Magazines. 583,972, Dec. 22; Serial No. 644,840, published Sept. 29, 1953. Class 38.

Graham, John H., & Co. Inc., New York, N. Y. Cordage. 583,955, Dec. 22; Serial No. 643,761, published Sept. 1, 1953. Class 7.

Greater Pittsburgh T.-V. Company, Inc., Pittsburgh, Pa. Rebuilt television picture tubes. 584,009, Dec. 22; Serial No. 646,612, published Sept. 22, 1953. Class 21.

Gregg Tool Company: *See*—
Blake, Dal.

Gregory Fount-O-Ink Company, Los Angeles, Calif. Pen points and writing sets. 583,832, Dec. 22; Serial No. 630,650, published Sept. 29, 1953. Class 37.

Grimsby Frozen Products Limited, Grimsby, England. Quick-frozen fish fillets. 583,778, Dec. 22; Serial No. 611,178, published Feb. 12, 1952. Class 46.

Grossman, Ralph E., doing business as Picture Craft Company, Decatur, Ill. Artist's canvases. 583,801, Dec. 22; Serial No. 623,883, published Sept. 15, 1953. Class 50.

Grove Laboratories, Inc.: *See*—
Paris Medicine Company, The.

Groveton Papers Co.: *See*—
Wyoming Valley Paper Mill.

Haas Brothers: *See*—
Lilienthal, Benjamin P.

Håkansons, P., Konserver Aktiebolag, Eslov, Sweden. Fruit and berry preserves, jams, marmalades, etc. 583,769, Dec. 22; Serial No. 601,486, published Sept. 22, 1953. Class 46.

Hall Publishing Company, New York, N. Y. Column in a periodical trade publication. 583,983, Dec. 22; Serial No. 645,567, published Sept. 28, 1953. Class 38.

Handy, H. L., Company: *See*—
Swift & Company.

Harris, Barrier, Inc., Indianapolis, Ind. Automobile barrier, and more particularly a barrier engageable with the wheels of an automobile. 583,850, Dec. 22; Serial No. 633,670, published Sept. 29, 1953. Class 19.

Harrower Laboratory, Inc., The, Jersey City, N. J. Preparation for internal administration used as an aid in X-ray diagnosis. 583,907, Dec. 22; Serial No. 641,050, published Sept. 15, 1953. Class 18.

Hat Life, Inc., New York, N. Y. Monthly publications. 310,171, renewed Feb. 13, 1954. O. G. Dec. 22. Class 38.

Heider, Fred: *See*—
Heider, Frederick H.

Heider, Frederick H., doing business as Fred Heider, New York, N. Y. Leisure wear. 583,915, Dec. 22; Serial No. 641,377, published Sept. 1, 1953. Class 39.

Heileman, G., Brewing Co., La Crosse, Wis. Beer. 583,857, Dec. 22; Serial No. 634,535, published Sept. 29, 1953. Class 48.

Henniker Crutch Co., Inc., Warner, N. H. Furniture. 583,838, Dec. 22; Serial No. 631,864, published Sept. 29, 1953. Class 32.

Hewitt Bros. Soap Company, The, doing business as Launette Products Co., to The Hewitt Soap Company, Inc., Dayton, Ohio. Blueing. 305,385, renewed Aug. 15, 1953. O. G. Dec. 22. Class 6.

Hewitt Soap Company, Inc., The: *See*—
Hewitt Bros. Soap Company, The.

Highspire Distillers Corporation, Philadelphia, Pa., assignor to Renfield Importers, Limited, Newark, N. J. Whiskey. 583,795, Dec. 22; Serial No. 622,156, published Sept. 15, 1953. Class 49.

Highway Trailer Company, Edgerton, Wis. Truck trailers. 583,944–5, Dec. 22; Serial Nos. 642,970–1, published Sept. 29, 1953. Class 19.

Hill, H. G., Stores, Inc., New Orleans, La. Coffee, canned peas and oleomargarine. 308,792, renewed Dec. 19, 1953. O. G. Dec. 22. Class 46.

Hird, Samuel, & Sons, Inc., Garfield, N. J., and New York, N. Y. Suiting fabrics. 584,004, Dec. 22; Serial No. 646,393, published Sept. 22, 1953. Class 42.

Hobbs Battery Company, Oakland, Calif. Storage batteries. 583,837, Dec. 22; Serial No. 631,665, published Sept. 22, 1953. Class 21.

Hoffmann-La Roche Inc., Nutley, N. J. Medicinal preparation. 308,080, renewed Nov. 21, 1953. O. G. Dec. 22. Class 18.

Hove, L. Ray, doing business under the name and style, Du-L-Spark Co., Minneapolis, Minn. Adapter for application to an ignition distributor, etc. 584,025, Dec. 22; Serial No. 639,821. Class 21.

Hubbard, William B., El Centro, Calif. Fresh vegetables. 420,155, Mar. 26, 1946. Republished Dec. 22. Class 46.

Hudson, J. L., Company, The, Detroit, Mich. Men's suits, slacks, jackets, and topcoats. 583,792, Dec. 22; Serial No. 621,150, published Sept. 1, 1953. Class 39.

Hydrozo Products Co.: *See*—
Blackman, J. E.

Inter-Coastal Paint Corporation, East St. Louis, Ill. Ready-mixed paints, varnishes, paint enamels, etc. 583,898, Dec. 22; Serial No. 640,279, published Sept. 8, 1953. Class 16.

Irvington Varnish & Insulator Company, Irvington, N. J., assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn. Electrical insulation material. 583,875, Dec. 22; Serial No. 637,380, published Sept. 15, 1953. Class 21.

Italian Drugs Importing Co., Inc., assignor to Delmond Pharmaceutical Corporation, New York, N. Y. Absorbable hemostatic gelatin sponge. 583,901, Dec. 22; Serial No. 640,517, published Sept. 15, 1953. Class 18.

J. F. S. Company: *See*—
Stilwell, James F.

Jencraft Manufacturing Co., East Paterson, N. J. Venetian blinds. 583,779, Dec. 22; Serial No. 613,644, published Sept. 29, 1953. Class 32.

Jet Knitting Mills, Inc., Brooklyn, N. Y. Bandeaux and hair nets. 583,990, Dec. 22; Serial No. 645,805, published Sept. 15, 1953. Class 39.

Johns-Manville Corporation, New York, N. Y. Asbestos sheets for electrical insulation. 583,821, Dec. 22; Serial No. 628,279, published Sept. 22, 1953. Class 21.

Johns-Manville Corporation, New York, N. Y. Asbestos sheets for electrical insulation. 583,828, Dec. 22; Serial No. 629,800, published Sept. 22, 1953. Class 21.

Johnson, Joseph S., doing business as Steele Formulae Company, Cleveland, Ohio. Preparation for the treatment of high blood pressure. 583,854, Dec. 22; Serial No. 634,017, published Sept. 15, 1953. Class 18.

Jourde Freres, Bordeaux, France. Distilled alcoholic cordial. 308,195, renewed Nov. 21, 1953. O. G. Dec. 22. Class 49.

Kalvig & Co. Inc., Hackensack, Minn. Artificial fishing lures. 583,904, Dec. 22; Serial No. 640,860, published Sept. 1, 1953. Class 22.

Kauffman, William H., Waterman, Ill. Fresh dressed poultry, poultry feed and livestock feed. 583,797, Dec. 22; Serial No. 622,720, published Sept. 22, 1953. Class 46.

Kayco: *See*—
Kayser, Edwin E.

Kaylon Incorporated, New York, N. Y. Women's and girls' pajamas, pajama coats, beach coats, etc. 583,815, Dec. 22; Serial No. 627,822, published Aug. 11, 1953. Class 39.

Kaylon Incorporated, New York, N. Y. Ladies' and girls' pajamas, pajama coats, beach coats, etc. 583,836, Dec. 22; Serial No. 631,354, published July 28, 1953. Class 39.

Kayser, Edwin E., doing business as Kayco, Santa Barbara, Calif. Organic laxative. 583,947, Dec. 22; Serial No. 643,103, published Sept. 8, 1953. Class 18.

Kessler, Julius, Distilling Co., Inc., Lawrenceburg, Ind. Alcoholic beverages. 583,793, Dec. 22; Serial No. 621,562, published Sept. 15, 1953. Class 49.

Kroger Co., The, Cincinnati, Ohio. Paper cleansing tissue and toilet tissue, paper napkins and towels. 583,970, Dec. 22; Serial No. 644,619, published Sept. 29, 1953. Class 37.

Krueger, G., Brewing Company, Newark, N. J. Beer and ale. 583,921, Dec. 22; Serial No. 641,621, published Sept. 15, 1953. Class 48.

Kuhn, Hermann, Zurich, Switzerland. Mechanical pencils and pencil-leads. 583,863, Dec. 22; Serial No. 635,701, published Sept. 29, 1953. Class 37.

Laird & Company, doing business as Diamond State Distilling Company, Scobeyville, N. J. Apple brandy. 583,935, Dec. 22; Serial No. 642,411, published Sept. 15, 1953. Class 49.

La Monte, George, & Son, Nutley, N. J. Safety paper. 583,809, Dec. 22; Serial No. 626,514, published Sept. 22, 1953. Class 37.

Lampes et Entreprises Électriques, Ninove, Belgium. Electric lamps. 583,993, Dec. 22; Serial No. 645,993, published Sept. 22, 1953. Class 21.

Lane Company, Inc., The, Altavista, Va. Cedar wardrobes, cedar chifforobes, cedar closets, etc. 583,940, Dec. 22; Serial No. 642,822, published Sept. 15, 1953. Class 32.

Lanman & Kemp-Barclay & Co., Incorporated: *See*—
Barclay & Barclay.

Larsen Company, The, Green Bay, Wis. Canned vegetables. 583,802, Dec. 22; Serial No. 624,036, published Sept. 15, 1953. Class 46.

Larsen, Victor A., Chicago, Ill. Vehicle window weather strips. 584,026, Dec. 22; Serial No. 641,060. Class 19.

Launette Products Co.: *See*—
Hewitt Bros. Soap Company, The.

Leeds Associates, Inc., New York, N. Y. Wooden fabrics. 583,991–2, Dec. 22; Serial Nos. 645,903–4, published Sept. 29, 1953. Class 42.

Leonards, Fort Worth, Tex. Refrigerators and freezers. 583,851, Dec. 22; Serial No. 633,775, published Aug. 18, 1953. Class 31.

Lewis Harwood & Co., Inc., New York, N. Y. Food product. 584,022, Dec. 22; Serial No. 631,242. Class 46.

Lifetime Living, Inc., New York, N. Y. Periodical magazine. 583,965, Dec. 22; Serial No. 644,424, published Sept. 29, 1953. Class 38.

Lilienthal, Benjamin P., to Haas Brothers, San Francisco, Calif. Whiskey. 310,245, renewed Feb. 13, 1954. O. G. Dec. 22. Class 49.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 583,942–3, Dec. 22; Serial Nos. 642,957–8, published Sept. 8, 1953. Class 18.

Lincoln Electric Company, The, Cleveland, Ohio. Push button switches in electric arc welding equipment. 583,768, Dec. 22; Serial No. 601,221, published Sept. 22, 1953. Class 21.

Lind, William, doing business as William Lind Co., New York, N. Y. Cotton piece goods. 310,549, renewed Feb. 27, 1954. O. G. Dec. 22. Class 42.

Lind, William, Co.: *See*—
Lind, William.

Lissone-Lindeman U. S. A., Inc., New York, N. Y. Travel agency services. 584,032, Dec. 22, Serial No. 636,483. Class 105.

Little, Brown and Company (Inc.), Boston, Mass. Books. 583,830, Dec. 22; Serial No. 630,426, published Sept. 29, 1953. Class 38.

Little, Brown and Company (Inc.), Boston, Mass. Books. 583,831, Dec. 22; Serial No. 630,429, published Sept. 29, 1953. Class 38.

Lord, Phillips H., Inc., New York, N. Y. Entertainment through the media of an integrated series of dramatic radio and television programs. 584,012, Dec. 22; Serial No. 608,118, published Sept. 29, 1953. Class 107.

Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Wool and worsted piece goods. 584,007, Dec. 22; Serial No. 646,559, published Sept. 29, 1953. Class 42.

Los Angeles Brewing Company, Los Angeles, Calif., assignor to Pabst Brewing Company. Beer. 583,848, Dec. 22; Serial No. 633,311, published Sept. 15, 1953. Class 48.

Louisville Tin and Stove Company, Louisville, Ky. Portable ice chests. 583,885, Dec. 22; Serial No. 638,802, published Sept. 1, 1953. Class 31.

Lynch, W. J., Paint & Varnish Co., Inc., East Providence, R. I. Exterior and interior house paints, exterior house paint primers, finishes, etc. 583,775, Dec. 22; Serial No. 605,166, published Apr. 29, 1952. Class 16.

Lyons, J., & Co., Ltd. Inc., Baltimore, Md., and Jersey City, N. J. Cartons of crystallized ginger. 583,786, Dec. 22; Serial No. 616,857, published Sept. 15, 1953. Class 46.

MacGregor Sport Products, Inc., Cincinnati, Ohio. Golf bags. 584,024, Dec. 22; Serial No. 636,426. Class 22.

MacPhee, Angus, Vancouver, British Columbia, Canada. Playing card game. 583,976, Dec. 22; Serial No. 645,329, published Sept. 29, 1953. Class 22.

Majestic Metal Specialties, Inc., Moosup, Conn. Lady's unfilled compact. 583,966, Dec. 22; Serial No. 644,427, published Sept. 29, 1953. Class 2.

Makers of Kal, Inc., Los Angeles, Calif. Laxative preparation. 583,781, Dec. 22; Serial No. 614,704, published Feb. 3, 1953. Class 18.

Marathon Corporation, Rothschild, Wis. Paper cartons. 583,826, Dec. 22; Serial No. 629,577, published Sept. 29, 1953. Class 2.

Marathon Corporation, Menasha, Wis. Trays. 583,839, Dec. 22; Serial No. 631,878, published Sept. 29, 1953. Class 2.

Marco Refrigerators Limited, London, England. Condensing units and compressors for refrigerators. 583,911, Dec. 22; Serial No. 641,194, published Sept. 15, 1953. Class 31.

Markite Company, The: *See*—
Coler, Myron A.

Marlin Firearms Company, The, New Haven, Conn. Rifles and parts thereof. 583,967, Dec. 22; Serial No. 644,429, published Sept. 29, 1953. Class 9.

Marlyn Co., Inc., Los Angeles, Calif. Buccal or sublingual tablets. 583,796, Dec. 22; Serial No. 622,607, published Sept. 15, 1953. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Oral pharmaceutical preparation. 583,810, Dec. 22; Serial No. 626,682, published Sept. 15, 1953. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Injectable veterinary preparation. 583,811, Dec. 22; Serial No. 626,684, published Sept. 8, 1953. Class 18.

Master Matrix Service Company, Inc., New York, N. Y. Matrices. 583,822, Dec. 22; Serial No. 628,360, published Sept. 22, 1953. Class 50.

Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.

Mathieson Chemical Corporation, Saltville, Va. Antibiotic preparation. 583,879, Dec. 22; Serial No. 637,715, published Sept. 8, 1953. Class 18.

Mattich Airdraulic Mfg. Co.: *See*—
Mattich, Stephen M.

Mattich, Stephen M., doing business as Mattich Airdraulic Mfg. Co., Maywood, Ill. Pressure operated water hammers. 584,021, Dec. 22, Serial No. 629,376. Class 23.

Mayhaw Canning Company, Inc., Laurel, Miss. Canned fruits, canned vegetables, and canned shrimp. 583,761; Dec. 22; Serial No. 563,943, published Sept. 8, 1953. Class 46.

McCallister and Company, assignee: *See*—
McCallister, David F.

McCallister, David F., Upper Darby, assignor to McCallister and Company, Cheltenham, Pa. Frozen snapper soup. 583,766, Dec. 22, Serial No. 600,729, published Sept. 22, 1953. Class 46.

McManus, J. S., doing business as J. S. McManus Produce Company, Weslaco, Tex. Fresh vegetables. 399,137, Dec. 15, 1942. Republished Dec. 22. Class 46.

McManus, J. S., Produce Company: *See*—
McManus, J. S.

Memphis Cap Co., Inc., Memphis, Tenn. Men's caps. 583,843, Dec. 22; Serial No. 632,531, published Sept. 1, 1953. Class 39.

Memphis Cap Co., Inc., Memphis, Tenn. Men's hats. 583,844, Dec. 22; Serial No. 632,532, published Sept. 1, 1953. Class 39.

Merck & Co., Inc.: *See*—
Sharp & Dohme Incorporated.

Michael Lawrence Company, Inc., Inglewood, Calif. Paints. 583,962, Dec. 22, Serial No. 644,182, published Sept. 22, 1953. Class 16.

Midcontinent Twine Company: *See*—
Tritsch, Maynard.

Miller, Charles N., to Charles N. Miller Co., Boston, Mass. Candy. 95,225, re-renewed Feb. 3, 1954. O. G. Dec. 22. Class 46.

Miller, Charles N., Co.: *See*—
Miller, Charles N.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Multivitamin and multi-mineral preparation. 583,825, Dec. 22, Serial No. 628,953, published Sept. 15, 1953. Class 18.

Milwaukee Lace Paper Company, Milwaukee, Wis. Paper doilies and place mats. 583,963, Dec. 22; Serial No. 644,242, published Sept. 29, 1953. Class 37.

Minnesota Mining and Manufacturing Company, assignee: *See*—
Irvington Varnish & Insulator Company.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. High viscosity coating compound. 583,891, Dec. 22, Serial No. 639,700, published Sept. 15, 1953. Class 16.

Modglin Company, Inc., Los Angeles, Calif. Toy mops. 584,023, Dec. 22; Serial No. 634,380. Class 22.

Monsanto Chemical Company, St. Louis, Mo. Fertilizer. 583,980, Dec. 22; Serial No. 645,501, published Sept. 29, 1953. Class 10.

Monsanto Chemical Company, St. Louis, Mo. Fertilizer. 583,981, Dec. 22, Serial No. 645,505, published Sept. 29, 1953. Class 10.

Moore, Benjamin, & Co., New York, N. Y. Paint enamels. 583,834, Dec. 22; Serial No. 631,015, published Sept. 1, 1953. Class 16.

Mountain City Packing Company: *See*—
Neville, E. J.

Myers, Geo. T., & Co., Seattle, Wash., and Chatham, District of Alaska, by New England Fish Company, Seattle, Wash. Canned salmon. 90,363, Feb. 18, 1913. Republished Dec. 22. Class 46.

Napa & Sonoma Wine Co.: *See*—
California Cellars.

National Association for Mental Health, Inc., The, New York, N. Y. Services relating to the improvement of mental health. 584,016, Dec. 22; Serial No. 640,352, published Sept. 29, 1953. Class 100.

National Distillers Products Corporation: *See*—
American Medicinal Spirits Company, The.
U. S. Industrial Chemical Co., Incorporated.

National Distillers Products Corporation, New York, N. Y. Wines. 583,922, Dec. 22; Serial No. 641,630, published Sept. 15, 1953. Class 47.

National Distillers Products Corporation, New York, N. Y. Whiskey, gin and brandy. 583,923, Dec. 22; Serial No. 641,631, published Sept. 15, 1953. Class 49.

Nedick's, Inc., New York, N. Y. Lemonade concentrate. 583,853, Dec. 22; Serial No. 633,857, published Sept. 15, 1953. Class 45.

Neville, E. J., doing business as Mountain City Packing Company, Cairo, Ill. Apple cider. 583,936, Dec. 22; Serial No. 642,452, published Sept. 29, 1953. Class 45.

New England Fish Company: *See*—
Myers, Geo. T., & Co.

New York Feather Co., Inc., New York and Brooklyn, N. Y. Pillows, cushions, throw pillows, etc. 583,883, Dec. 22; Serial No. 638,602, published Sept. 15, 1953. Class 32.

New York Rubber Corporation, New York, N. Y. Inflatable mattresses, cushions and pillows. 583,840–1, Dec. 22; Serial Nos. 632,310–11, published Sept. 29, 1953. Class 32.

North American Milk Industries, Inc., Hialeah, Fla. Canned natural milk. 584,029, Dec. 22; Serial No. 643,705. Class 46.

Northland Ski Manufacturing Company, North St. Paul, Minn. Hockey sticks, skis, toboggans, and snow shoes. 583,975, Dec. 22; Serial No. 645,054, published Sept. 1, 1953. Class 22.

Novy, Melvin E.: *See*—
Serene Kleaner Company.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Surgical gauze, absorbent cotton, sanitary napkins, etc. 103,790, Apr. 13, 1915. Republished Dec. 22. Class 44.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Liquid analgesic. 223,623, Feb. 8, 1927. Republished Dec. 22. Class 18.

Nyal Company, Inc.: *See*—
Nyal Company.

O'Keefe Brothers, by O'Keefe Brothers, Jacksonville, Tex. Fresh vegetables. 388,205, June 17, 1941. Republished Dec. 22. Class 46.

Oneida Community Limited to Oneida Ltd., Oneida, N. Y. Sterling silver flatware. 306,373, renewed Sept. 19, 1953. O. G. Dec. 22. Class 28.

Oneida Ltd.: *See*—
Oneida Community Limited.

Ostrander, Richard G., Yonkers, N. Y. Safety belts. 583,984, Dec. 22; Serial 645,661, published Sept. 29, 1953. Class 40.

Pabst Brewing Company, assignee: *See*—
Los Angeles Brewing Company.

Paglinso Engineering Company: *See*—
Pagliuso, R. J.

Pagliuso, R. J., doing business as Pagliuso Engineering Company, Glendale, Calif. Spring-propelled mechanical toy race cars and fire engines. 584,005, Dec. 22, Serial No. 646,422, published Sept. 1, 1953. Class 22.

Paris Medicine Company, The, Wilmington, Del., and St. Louis, Mo., to Grove Laboratories, Inc., St. Louis, Mo. Medicinal tablet for the relief of colds, coughs, headaches, etc. 307,417, renewed Oct. 24, 1953. O. G. Dec. 22. Class 18.

Pearlduck, Inc., New York, N. Y. Razors, shears, scissors, etc. 583,799, Dec. 22; Serial No. 623,203, published Feb. 10, 1953. Class 23.

Pennsylvania Grade Crude Oil Association, Oil City, Pa. Lubricating oils and greases. 376,409–11, Mar. 26, 1940. Republished Dec. 22. Class 15.

Picture Craft Company: *See*—
Grossman, Ralph E.

Pitegoff Brothers, Inc., Brooklyn, N. Y. Paint brushes, wall brushes, stucco brushes. 583,807, Dec. 22; Serial No. 625,625, published Sept. 29, 1953. Class 29.

Pittsburgh Plate Glass Company: *See*—
Thresher Varnish Company, The.

Plastic Woven Products, Inc., Paterson, N. J. Plastic webbing. 583,997, Dec. 22; Serial No. 646,164, published Sept. 29, 1953. Class 42.

Pollak Industrial Corp., Stratford, Conn., and New York, N. Y. Hat bodies. 583,954, Dec. 22; Serial No. 643,710, published Sept. 1, 1953. Class 39.

Potter & Moore Limited, London, England. Pastes, powders, creams, etc. 309,359, renewed Jan. 9, 1954. O. G. Dec. 22. Class 51.

Powell, Chick, Co.: *See*—
Powell, Frank.

Powell, Frank, doing business as Chick Powell Co., Miami, Fla. Novelties and souvenirs. 387,893, June 3, 1941. Republished Dec. 22. Class 50.

Presto Beverage Corporation, Brooklyn, N. Y. Fruit flavored bases for making soft drinks. 583,765, Dec. 22; Serial No. 598,546, published Sept. 15, 1953. Class 45.

Preston, Lena T. A., doing business as The Teverbaugh Manufacturing Company, Chicago, Ill. Hair-pressing oil. 583,877, Dec. 22; Serial No. 637,462, published Sept. 29, 1953. Class 51.

Procon Incorporated, Chicago, Ill. Constructing, altering, and repairing oil and chemical processing plants. 584,013, Dec. 22; Serial No. 634,803, published Sept. 29, 1953. Class 103.

Procter & Gamble Company, The, Cincinnati, Ohio. Washing agents and detergents. 584,031, Dec. 22; Serial No. 654,290. Class 52.

Prop Products, Los Angeles, Calif. Food supplements in liquid and powder form, and containing vitamins, enzymes, etc. 583,849, Dec. 22; Serial No. 633,327, published Sept. 15, 1953. Class 18.

Pure Oil Company, The, Chicago, Ill. Automobile seat cover installation kit. 583,777, Dec. 22; Serial No. 610,025, published Sept. 15, 1953. Class 50.

Pyroxylin Products, Inc., Chicago, Ill. Nitrocellulose lacquers. 335,349, June 2, 1936. Republished Dec. 22. Class 16.

Pyroxylin Products, Inc., Chicago, Ill. Family of coating compositions. 439,713, June 13, 1948. Republished Dec. 22. Class 16.

Pyroxylin Products, Inc., Chicago, Ill. Composite structure made of open-mesh sheet material. 440,623, Sept 14, 1948. Republished Dec. 22. Class 50.

Rack Engineering Company, Connellsville, Pa. Pallet boxes. 583,870, Dec. 22; Serial No. 636,148, published Sept. 15, 1953. Class 50.

Radiohio, Incorporated, Columbus, Ohio. Radio program broadcasting service. 584,014, Dec. 22; Serial No. 634,859, published Sept. 29, 1953. Class 104.

Ralston Purina Company, St. Louis, Mo. Poultry and stock feed. 583,759, Dec. 22; Serial No. 552,707, published Sept. 8, 1953. Class 46.

Raynal Cycle Company Limited, The, Birmingham and Handsworth, Birmingham, England. Pedal cycles and motor cycles and parts of and fittings therefor. 583,824, Dec. 22; Serial No. 628,717, published Sept. 29, 1953. Class 19.

Renfield Importers, Limited, assignee: *See* Highspire Distillers Corporation.

Rexall Drug Company: *See* Burton, John S.

Rich Industries, Inc., Clinton, Iowa. Infants' furniture. 583,808, Dec. 22; Serial No. 626,218, published Sept. 29, 1953. Class 32.

Ritter Company, Inc.: *See* Ritter Dental Manufacturing Company, Inc.

Ritter Dental Manufacturing Company, Inc., to Ritter Company, Inc., Rochester, N. Y. Dental and surgical operating lights. 306,340, renewed Sept. 19, 1953. O. G. Dec. 22. Class 44.

Robertson and Baxter, Limited, Glasgow, Scotland. Whisky. 583,894, Dec. 22; Serial No. 640,130, published Sept. 15, 1953. Class 49.

Ronzoni Macaroni Co., Inc., Long Island City, N. Y. Macaroni. 583,892, Dec. 22; Serial No. 639,780, published Sept. 29, 1953. Class 46.

Rotella Beverages, Inc., assignor to Slim-Line, Inc., Newark, N. J. Non-alcoholic maltless soft drinks and carbonated waters. 583,887, Dec. 22; Serial No. 639,144, published Sept. 15, 1953. Class 45.

Rothman Pickle Products, Inc., Jamaica, N. Y. Pickles and sauerkraut. 583,816, Dec. 22; Serial No. 627,841, published Sept. 15, 1953. Class 46.

Rubinstein, Helena, Inc., New York, N. Y. Face lotion and body lotion. 583,780, Dec. 22; Serial No. 614,631, published Sept. 29, 1953. Class 51.

Santa Cruz Artichoke & Sprout Growers, by Santa Cruz Artichoke and Sprout Growers Association, Santa Cruz, Calif. Fresh vegetables. 369,632–3, Aug. 1, 1939. Republished Dec. 22. Class 46.

Santa Cruz Artichoke and Sprout Growers Association: *See* Santa Cruz Artichoke & Sprout Growers.

Saticoy Lemon Association, Saticoy, Calif. Fresh citrus fruits. 583,971, Dec. 22; Serial No. 644,792, published Sept. 1, 1953. Class 46.

Schenley Laboratories, Inc., New York, N. Y. Medicinal preparation. 583,817–19, Dec. 22; Serial Nos. 627,967–9, published Sept. 15, 1953. Class 18.

Schmiege, Herbert, Saginaw, Mich. Portable collapsible tent. 583,858, Dec. 22; Serial No. 635,101, published Sept. 15, 1953. Class 50.

Schneider, Raymond C., Manhattan, Kans. Sun hat. 583,912, Dec. 22; Serial No. 641,331, published Sept. 1, 1953. Class 39.

Schonbrunn, S. A., & Co., Inc., New York, N. Y. Coffee, tea and rice. 583,889, Dec. 22; Serial No. 639,342, published Sept. 1, 1953. Class 46.

Schwartz, Arnold A.: *See* Alabastine Company.

Sealy, Incorporated, Chicago, Ill. Mattresses and box springs. 583,913–14, Dec. 22; Serial Nos. 641,334–5, published Sept. 15, 1953. Class 32.

Seatuprufe Incorporated, New York, N. Y. Women's and misses' slips, bloomers, petticoats, etc. 583,873, Dec. 22; Serial No. 637,194, published Sept. 22, 1953. Class 39.

Seaway Brands Co.: *See* Springer, George T.

Seeman Bros., to Seeman Brothers, Inc., New York, N. Y. Cocoa and chocolate. 41,762, re-renewed Dec. 29, 1953. O. G. Dec. 22. Class 46.

Seeman Brothers, Inc.: *See* Seeman Bros.

Serene Kleaner Company, Cleveland, to M. E. Novy, Bay Village, Ohio. Cleaning and washing compound. 309,464, renewed Jan. 16, 1954. O. G. Dec. 22. Class 52.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Lozenge or troche. 583,890, Dec. 22; Serial No. 639,664, published Sept. 8, 1953. Class 18.

Sheinker, W., & Son, Inc., New York, N. Y. Whiskey, gin, distilled alcoholic cordials, etc. 310,546, renewed Feb. 27, 1954. O. G. Dec. 22. Class 49.

Shellmar Products Corporation, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Merchandise bags. 583,733, Dec. 22; Serial No. 604,992, published Sept. 29, 1953. Class 2.

Shippers Supply Co. of N. E., The: *See* Thompson, Frederic P.

Simplicity Pattern Co., Inc., New York, N. Y. Magazines. 583,987, Dec. 22; Serial No. 645,736, published Sept. 29, 1953. Class 38.

Simpson Logging Company, Seattle, Wash. Hardboard, insulation board, and acoustical tile. 583,920, Dec. 22; Serial No. 641,524, published Sept. 29, 1953. Class 12.

Slim-Line, Inc., assignee: *See* Rotella Beverages, Inc.

Smokador Manufacturing Co., Inc., Bloomfield, N. J. Smoking stands. 583,852, Dec. 22; Serial No. 633,792, published Sept. 15, 1953. Class 32.

Societe Rhodiaceta, Paris, France. Single threads and threads woven into strands. 583,856, Dec. 22; Serial No. 634,510, published Sept. 15, 1953. Class 43.

South-Bend Toy Mfg. Co., South Bend, Ind. Musical doll carriages. 583,968, Dec. 22; Serial No. 644,460, published Sept. 1, 1953. Class 22.

South Pacific Canning Company, Long Beach, Calif. Canned fish. 583,812, Dec. 22; Serial No. 626,909, published June 23, 1953. Class 46.

South Pacific Canning Company, Long Beach, Calif. Canned tuna fish. 583,926, Dec. 22; Serial No. 641,697, published Aug. 11, 1953. Class 46.

Southern Chemical Foundation, Inc., Dallas, Tex. Vitamin pills. 583,948, Dec. 22; Serial No. 643,122, published Sept. 8, 1953. Class 18.

Speer Carbon Company, St. Marys, Pa. Ceramic capacitors. 584,008, Dec. 22, Serial No. 646,579, published Sept. 22, 1953. Class 21.

Sperry Corporation The, New York and Great Neck, N. Y. Microwave plumbing. 583,767, Dec. 22; Serial No. 600,994, published Sept. 22, 1953. Class 21.

Spiegel, Inc., Chicago, Ill. Electric ranges and electric dish washers. 583,952, Dec. 22; Serial No. 643,561, published Sept. 15, 1953. Class 21.

Springer, George T., doing business as Seaway Brands Co., Minneapolis, Minn. Canned vegetables and fruits. 306,405, renewed Sept. 19, 1953. O. G. Dec. 22. Class 46.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Preparation for producing analgesia. 583,813, Dec. 22; Serial No. 626,911, published Sept. 8, 1953. Class 18.

Squirrel Brand Company, Cambridge, Mass. Caramel-like candy. 583,859, Dec. 22; Serial No. 635,440, published Sept. 29, 1953. Class 46.

Stace, Vincent A., Dearborn, Mich. Partially printed medical summary forms. 583,886, Dec. 22; Serial No. 638,818, published Sept. 22, 1953. Class 37.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Petroleum gas, liquefied petroleum gas. 306,326, renewed Sept. 12, 1953. O. G. Dec. 22. Class 6.

Standard Register Company, The, Dayton, Ohio. Writing paper, blank checks, and business forms. 396,489, July 21, 1942. Republished Dec. 22. Class 37.

Standard Register Company, The, Dayton, Ohio. Hand drawn illustrations, sketches, layouts, and designs. 399,298, Dec. 29, 1942. Republished Dec. 22. Class 38.

Standard Register Company, The, Dayton, Ohio. Platen rolls for imprinting machines and parts thereof. 406,064, Mar. 7, 1944. Republished Dec. 22. Class 23.

Standard Register Company, The, Dayton, Ohio. Carbon paper. 428,370, Mar. 25, 1947. Republished Dec. 22. Class 11.

Steel City Manufacturing Co., The, Youngstown, Ohio. Refrigerated beverage dispensers. 583,950, Dec. 22; Serial No. 643,246, published Aug. 25, 1953. Class 31.

Steele Formulae Company: *See* Johnson, Joseph S.

Steiner Sales Company, Division of American Linen Supply Co.: *See* American Linen Supply Co.

Stevens, J. P., & Co., Inc., New York, N. Y. Diapers. 583,861, Dec. 22; Serial No. 635,496, published Sept. 1, 1953. Class 39.

Stilwell, James F., doing business under the style and title of J. F. S. Company, Omaha, Nebr. Liniment. 583,924, Dec. 22; Serial No. 641,645, published Sept. 15, 1953. Class 18.

Stroh Brewery Company, The, Detroit, Mich. Beer. 583,929, Dec. 22; Serial No. 641,871, published Sept. 29, 1953. Class 48.

Summit Mills Corporation, New York, N. Y. Sport shirts. 583,847, Dec. 22; Serial No. 632,857, published Sept. 1, 1953. Class 39.

Sun Outdoor Products Company, Incorporated, Little Ferry, N. J. Beach and garden umbrellas. 583,932–3, Dec. 22; Serial Nos. 642,178–9, published Sept. 15, 1953. Class 32.

Sutliff & Case Co. Inc., Peoria, Ill. Medicinal preparations. 583,902, Dec. 22; Serial No. 640,535, published Sept. 15, 1953. Class 18.

Swift & Company, Chicago, Ill., doing business as H. L. Handy Company, Springfield, Mass. Smoked ham, bacon, frankfurts, etc. 584,010, Dec. 22; Serial No. 647,242, published Sept. 29, 1953. Class 46.

Taylor, Brooks, Chicago, Ill. Columns and articles in newspapers, magazines, and pamphlets. 583,979, Dec. 22; Serial No. 645,440, published Sept. 29, 1953. Class 38.

Tennessee Hosiery Mills Co., Niota, Tenn. Men's socks. 583,939, Dec. 22; Serial No. 642,710, published Aug. 25, 1953. Class 39.

Tetley, Joseph, & Co., Inc., to Tetley Tea Co., Inc., New York, N. Y. Tea. 308,242, renewed Nov. 28, 1953 O. G. Dec. 22. Class 46.

Tetley Tea Co., Inc.: *See* Tetley, Joseph, & Co., Inc.

Teverbaugh Manufacturing Company, The: *See* Preston, Lena T. A.

Texas Textile Mills, Dallas, Tex. Piece goods. 442,365, Apr. 5, 1949. Republished Dec. 22, 1953. Class 42.

Thompson, Frederic P., doing business as The Shippers Supply Co. of N. E., Watertown, Mass. Stencil ink, fountain marker ink, ink stamp pads, etc. 583,909, Dec. 22; Serial No. 641,158, published Sept. 1, 1953. Class 11.

Thor Corporation, Chicago, Ill. Food storage freezers. 583,897, Dec. 22; Serial No. 640,243, published Sept. 1, 1953. Class 31.

Thresher Varnish Company, The, Dayton, Ohio, to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Quick drying enamel. 306,720, renewed Sept. 26, 1953. O. G. Dec. 22. Class 16.

Timber Engineering Company, Washington, D. C. Lumber and fabricated metal joints. 307,738, renewed Oct. 31, 1953. O. G. Dec. 22. Class 12.

Tobler, Ernst & Traber, Inc., New York, N. Y. Woven fabrics. 583,916–18, Dec. 22; Serial Nos. 641,479–81, published Sept. 29, 1953. Class 42.

Town-Line Mfg. Co., Inc., Richmond Hill, N. Y. Christmas stockings which serve as containers for Christmas gifts. 584,018, Dec. 22, Serial No. 623,093. Class 22.

Tracerlab, Inc., Boston, Mass. Monthly bulletin. 439,237, June 8, 1948. Republished Dec. 22. Class 38.

Trans-Art Incorporated, New York, N. Y., and Chicago, Ill. Letters, symbols, marks, etc. 583,874, Dec. 22; Serial No. 637,198, published Sept. 29, 1953. Class 38.

Tribune Company, Chicago, Ill. Title for a newspaper column. 583,982, Dec. 22, Serial No. 645,517, published Sept. 28, 1953. Class 38.

Tritsch, Maynard, doing business as Midcontinent Twine Company, Plattsmouth, Nebr. Baler twine and binder twine. 583,951, Dec. 22; Serial No. 643,384, published Sept. 1, 1953. Class 7.

True Tronics, Inc., Chicago, Ill. Television antennae. 583,895, Dec. 22, Serial No. 640,175, published Sept. 15, 1953. Class 21.

Tyzack, W. A. & Co. by W. A. Tyzack & Company Limited, Sheffield, England. Tobacco knives and saws. 90,762, Mar. 18, 1913. Republished Dec. 22. Class 23.

Tyzack, W. A., & Company Limited: *See* Tyzack, W. A., & Co.

Ukiah Fruit Growers, Inc., Ukiah, Calif. Fresh pears. 242,587, May 29, 1928. Republished Dec. 22. Class 46.

United Aircraft Corporation, East Hartford, Conn., and Dallas, Tex. Airplanes and parts thereof. 583,878, Dec. 22; Serial No. 637,516, published Sept. 29, 1953. Class 19.

United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. 583,985, Dec. 22; Serial No. 645,682, published Sept. 22, 1953. Class 42.

U. S. Industrial Chemical Co., Incorporated, Baltimore, Md., and New York, N. Y., to National Distillers Products Corporation, New York, N. Y. Organic solvents. 310,010, renewed Feb. 6, 1954. O. G. Dec. 22. Class 6.

U. S. Stationery Co., New York, N. Y. Office filing cabinets. 583,956, Dec. 22; Serial No. 643,867, published Sept. 8, 1953. Class 32.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 583,899, Dec. 22; Serial No. 640,480, published Sept. 8, 1953. Class 18.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 583,900, Dec. 22; Serial No. 640,484, published Sept. 8, 1953. Class 18.

Victorias Milling Company, Inc., Manila, Philippine Islands. Refined sugar. 306,480, renewed Sept. 19, 1953. O. G. Dec. 22. Class 46.

Victory Plastics Co., Hudson, Mass. Plastic kitchen appliances. 583,866, Dec. 22; Serial No. 635,797, published Sept. 29, 1953. Class 2.

Video-Matic Co., Inc., New York, N. Y. Electrically lighted and operated advertising display. 583,804, Dec. 22; Serial No. 624,254, published Sept. 22, 1953. Class 21.

Virginia Fruit Fumigation Company, to Virginia Smelting Company, West Norfolk, Va. Insecticide and fungicide mixture. 307,776, renewed Oct. 31, 1953. O. G. Dec. 22. Class 6.

Virginia Smelting Company: *See* Virginia Fruit Fumigation Company.

Wawak Company, Inc., Chicago, Ill. Woolen piece goods. 583,760, Dec. 22, Serial No. 559,261, published June 30, 1953. Class 42.

Williams, Gladys R., New York, N. Y. Fabrics. 583,949, Dec. 22; Serial No. 643,141, published Sept. 29, 1953. Class 42.

World Wood Guide Incorporated, Philadelphia, Pa. Publication. 583,964, Dec. 22; Serial No. 644,366, published Sept. 29, 1953. Class 38.

Wright-Johnston Inc., Columbia, S. C. Men's suits, trousers, topcoats, etc. 583,946, Dec. 22; Serial No. 643,015, published Sept. 1, 1953. Class 39.

Wyoming Valley Paper Mill, Northumberland, N. H., and New York, N. Y. by Groveton Papers Co., Groveton, N. H. Toilet paper. 351,260, Oct. 26, 1937. Republished Dec. 22. Class 37.

Wyoming Valley Paper Mill, Northumberland, N. H., and New York, N. Y. by Groveton Papers Co., Groveton, N. H. Paper towels. 364,636, Feb. 7, 1939. Republished Dec. 22. Class 37.

Zellerbach Paper Company, San Francisco, Calif. Coated paper. 583,969, Dec. 22, Serial No. 644,484, published Sept. 29, 1953. Class 37.

Zion Countryside Bakers: *See* Zion Industries, Inc.

Zion Industries, Inc., doing business as Zion Countryside Bakers, Zion, Ill. Bakers' confections. 583,903, Dec. 22, Serial No. 640,829, published Sept. 1, 1953. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Modeling clay. The American Crayon Company. 309,192, renewed Jan. 9, 1954. O. G. Dec. 22.

Seeds, Field. L. P. Cook. 329,804, Nov. 12, 1935. Republished Dec. 22.

CLASS 2

Bags, Garment, and shoe bags. Consolidated Commodities Inc. 583,791, Dec. 22; Serial No. 619,332, published Sept. 29, 1953.

Bags, Merchandise. Shellmar Products Corporation. 583,773, Dec. 22; Serial No. 604,992, published Sept. 29, 1953.

Base holders. Conklin Products Corporation. 583,953, Dec. 22; Serial No. 643,655, published Sept. 29, 1953.

Boxes and covers therefor, Moisture resistant paperboard. Container Corporation of America. 583,876, Dec. 22, Serial No. 637,427, published Sept. 29, 1953.

Cabinets. American Linen Supply Co. 583,919, Dec. 22; Serial No. 641,488, published Sept. 29, 1953.

Cartons, Paper. Marathon Corporation. 583,826, Dec. 22; Serial No. 629,577, published Sept. 29, 1953.

Cases, Paperboard shipping, and folding cartons. O. B. Andrews Company. 583,862, Dec. 22; Serial No. 635,672, published Sept. 29, 1953.

Compact, Lady's unfilled. Majestic Metal Specialties, Inc. 583,966, Dec. 22; Serial No. 644,427, published Sept. 29, 1953.

Containers, Storage and transporting. Dempster Brothers, Inc. 583,794, Dec. 22; Serial No. 622,015, published Sept. 29, 1953.

Hampers. Gleitsman's, Inc. 583,961, Dec. 22; Serial No. 644,171, published Sept. 29, 1953.

Plastic kitchen appliances. Victory Plastics Co. 583,866, Dec. 22, Serial No. 635,797, published Sept. 29, 1953.

Trays. Marathon Corporation. 583,839, Dec. 22; Serial No. 631,878, published Sept. 29, 1953.

CLASS 3

Handbags. Dorian Handbags. 583,910, Dec. 22, Serial No. 641,178, published Sept. 29, 1953.

Wallets or billfolds and ladies' handbags. Aristocrat Leather Products, Inc. 583,774, Dec. 22; Serial No. 605,084, published Sept. 29, 1953.

CLASS 4

Automobile top dressing, cream silver polish, dairy detergents, etc. Fuld Bros., Inc. 306,888, renewed Oct. 3, 1953. O. G. Dec. 22.

Polish, Automobile, automobile wax, concrete hardener, etc. Fuld Bros., Inc. 307,111, renewed Oct. 17, 1953 O. G. Dec. 22.

CLASS 5

Patching material. B. B. Chemical Co. 583,798, Dec. 22; Serial No. 622,766, published Sept. 29, 1953.

CLASS 6

Bluing. The Hewitt Bros. Soap Company. 305,385, renewed Aug. 15, 1953. O. G. Dec. 22.

Dyes. Farbenfabriken Bayer. 583,820, Dec. 22; Serial No. 628,269, published Oct. 28, 1952.

Granular material to soak up spillages on floors. The Cincinnati Oil Works Co. 583,762, Dec. 22; Serial No. 576,446, published Nov. 6, 1951.
Insecticide and fungicide mixture. Virginia Fruit Fumigation Company. 307,776, renewed Oct. 31, 1953. O. G. Dec. 22.
Organic solvents. U. S. Industrial Chemical Co., Incorporated. 310,010, renewed Feb. 6, 1954. O. G. Dec. 22.
Petroleum gas, liquefied petroleum gas. Standard Oil Company of California. 306,326, renewed Sept. 12, 1953. O. G. Dec. 22.
Preparation for the treatment of coal. The Coal Processing Company. 306,145, renewed Sept. 12, 1953. O. G. Dec. 22.

CLASS 7

Cordage. John H. Graham & Co. Inc. 583,955, Dec. 22; Serial No. 643,761, published Sept. 1, 1953.
Twine, Baler, and binder twine. M. Tritsch. 583,951, Dec. 22; Serial No. 643,384, published Sept. 1, 1953.

CLASS 9

Rifles and parts thereof. The Marlin Firearms Company. 583,967, Dec. 22; Serial No. 644,429, published Sept. 29, 1953.

CLASS 10

Fertilizer. Monsanto Chemical Company. 583,980, Dec. 22; Serial No. 645,501, published Sept. 29, 1953.
Fertilizer. Monsanto Chemical Company. 583,981, Dec. 22; Serial No. 645,505, published Sept. 29, 1953.

CLASS 11

Carbon paper. The Standard Register Company. 428,370, Mar. 25, 1947. Republished Dec. 22.
Ink, Stencil, fountain marker ink, ink stamp pads, etc. F. P. Thompson. 583,909, Dec. 22. Serial No. 641,158, published Sept. 1, 1953.

CLASS 12

Colorless, penetrating, pore-filling solution for waterproofing and preserving masonry and wood. J. E. Blackman 393,757, Mar. 3, 1942. Republished Dec. 22.
Hardboard, insulation board, and acoustical tile. Simpson Logging Company. 583,920, Dec. 22; Serial No. 641,524, published Sept. 29, 1953.
Lumber and fabricated metal joints. Timber Engineering Company. 307,738, renewed Oct. 31, 1953. O. G. Dec. 22.
Refractory shapes and heat resisting formed clay bodies. Gladding, McBean & Co. 583,784, Dec. 22; Serial No. 615,978, published Sept. 29, 1953.

CLASS 13

Dispensers, Soap. Colgate-Palmolive-Peet Company. 309,783, renewed Jan. 30, 1954. O. G. Dec. 22.

CLASS 15

Oils and greases, Lubricating. Pennsylvania Grade Crude Oil Association. 376,409-11, Mar. 26, 1940. Republished Dec. 22.

CLASS 16

Base in the form of a dry powder for making a paint and a wall-coating. Alabastine Company. 94,538, renewed Dec. 16, 1953. O. G. Dec. 22.
Coating compositions. Family of. Pyroxylin Products, Inc. 439,713, June 13, 1948. Republished Dec. 22.
Coating compound, High viscosity. Minnesota Mining and Manufacturing Company. 583,891, Dec. 22; Serial No. 639,700, published Sept. 15, 1953.
Enamel, Quick drying. The Thresher Varnish Company. 306,720, renewed Sept. 26, 1953. O. G. Dec. 22.
Lacquers and pyroxylin enamels. E. I. du Pont de Nemours and Company. 305,531, Aug. 22, 1933. Republished Dec. 22.
Lacquers, Nitrocellulose. Pyroxylin Products, Inc. 335,349, June 2, 1936. Republished Dec. 22.
Paint enamels. Benjamin Moore & Co. 583,834, Dec. 22; Serial No. 631,015, published Sept. 1, 1953.
Paints. Michael-Lawrence Company, Inc. 583,962, Dec. 22; Serial No. 644,182, published Sept. 22, 1953.
Paints and wall-coatings. Alabastine Company. 309,671, renewed Jan. 23, 1954. O. G. Dec. 22.
Paints, Exterior and interior house, exterior house paint primers, finishes, etc. W. J. Lynch Paint & Varnish Co., Inc. 583,775, Dec. 22; Serial No. 605,166, published Apr. 29, 1952.
Paints, Ready-mixed, varnishes, paint enamels, etc. Inter-Coastal Paint Corporation. 583,898, Dec. 22; Serial No. 640,279, published Sept. 8, 1953.

CLASS 18

Absorbable hemostatic gelatin sponge. Italian Drugs Importing Co., Inc. 583,901, Dec. 22; Serial No. 640,517, published Sept. 15, 1953.
Analgesic, Liquid. Nyal Company. 223,623, Feb. 8, 1927. Republished Dec. 22.
Antibiotic preparation. Mathieson Chemical Corporation. 583,879, Dec. 22; Serial No. 637,715, published Sept. 8, 1953.
Antiseptic, hemostatic, and styptic ointment. P. Fischer 583,842, Dec. 22; Serial No. 632,363, published Sept. 15, 1953.
Appetite satient compositions. E. A. Ferguson, Jr. 583,884, Dec. 22; Serial No. 638,795, published Sept. 8, 1953.
Buccal or sublingual tablets. Marlyn Co., Inc. 583,796, Dec. 22; Serial No. 622,607, published Sept. 15, 1953.
Food supplements in liquid and powder form, and containing vitamins, enzymes, etc. Prop Products 583,849, Dec. 22; Serial No. 633,327, published Sept. 15, 1953.
Germicide. Bell and Thorne, Inc. 583,827, Dec. 22, Serial No. 629,717, published Sept. 8, 1953.
Laxative, Organic. E. E. Kayser. 583,947, Dec. 22, Serial No. 643,103, published Sept. 8, 1953.
Laxative preparation. Makers of Kal, Inc. 583,781, Dec. 22; Serial No. 614,704, published Feb. 3, 1953.
Liniment. J. S. Burton. 39,739, re-renewed Feb. 3, 1953. O. G. Dec. 22.
Liniment. J. F. Stilwell. 583,924, Dec. 22, Serial No. 641,645, published Sept. 15, 1953.
Lozenge or troche. Sharp & Dohme Incorporated 583,890, Dec. 22; Serial No. 639,664, published Sept. 8, 1953.
Medicated rub. The Denver Chemical Manufacturing Company. 583,905, Dec. 22; Serial No. 640,919, published Sept. 15, 1953.
Medicinal preparation. Abbott Laboratories. 583,814, Dec. 22; Serial No. 627,236, published Sept. 8, 1953.
Medicinal preparation. Hoffmann La Roche, Inc. 308,080, renewed Nov. 21, 1953. O. G. Dec. 22.
Medicinal preparation. Eli Lilly and Company. 583,942-3, Dec. 22; Serial Nos. 642,957-8, published Sept. 8, 1953.
Medicinal preparation. Schenley Laboratories, Inc. 583,817-19, Dec. 22; Serial Nos. 627,967-9, published Sept. 15, 1953.
Medicinal preparation. The Upjohn Company. 583,899, Dec. 22; Serial No. 640,480, published Sept. 8, 1953.
Medicinal preparation. The Upjohn Company. 583,900, Dec. 22; Serial No. 640,484, published Sept. 8, 1953.
Medicinal preparations. Sutliff & Case Co. Inc. 583,902, Dec. 22. Serial No. 640,535, published Sept. 15, 1953.
Medicinal skin lotion. The Drug Products Co., Inc. 583,800, Dec. 22; Serial No. 623,827, published Sept. 15, 1953.
Medicinal tablet for the relief of colds, coughs, headaches, etc. The Paris Medicine Company. 307,417, renewed Oct. 24, 1953. O. G. Dec. 22.
Multi-vitamin and multi-mineral preparation. E. S. Miller Laboratories, Inc. 583,825, Dec. 22; Serial No. 628,953, published Sept. 15, 1953.
Pharmaceutical preparation, Oral. The S. E. Massengill Company. 583,810, Dec. 22; Serial No. 626,682, published Sept. 15, 1953.
Pills, Vitamin. Southern Chemical Foundation, Inc. 583,948, Dec. 22; Serial No. 643,122, published Sept. 8, 1953.
Preparation comprising in combination a mixture of estrogenic and androgenic hormones with multivitamins, etc. Casimir Funk Laboratories, Inc. 583,930, Dec. 22; Serial No. 641,907, published Aug. 11, 1953.
Preparation for internal administration used as an aid in X ray diagnosis. The Harrower Laboratory, Inc. 583,907, Dec. 22, Serial No. 641,050, published Sept. 15, 1953.
Preparation for producing analgesia. E. R. Squibb & Sons. 583,813, Dec. 22. Serial No. 626,911, published Sept. 8, 1953. Class 18.
Preparation for the treatment of high blood pressure. J. S. Johnson. 583,854, Dec. 22, Serial No. 634,017, published Sept. 15, 1953.
Product for the relief of menstrual pain. Chichester Chemical Co. 583,925, Dec. 22, Serial No. 641,657 published Sept. 15, 1953.
Veterinary preparation, Injectable. The S. E. Massengill Company. 583,811, Dec. 22; Serial No. 626,684, published Sept. 8, 1953.

CLASS 19

Airplane parts, Plastic. The Brunswick Balke-Collender Company. 584,027, Dec. 22; Serial No. 641,762.
Airplanes and parts thereof. United Aircraft Corporation. 583,878, Dec. 22. Serial No. 637,516, published Sept. 29, 1953.
Airplanes and structural parts thereof. The De Havilland Aircraft Company Limited. 583,957-8, Dec. 22; Serial Nos. 644,016-17, published Sept. 8, 1953.
Automobile barrier, and more particularly a barrier engageable with the wheels of an automobile. Harris Barrier, Inc. 583,850, Dec. 22. Serial No. 633,670, published Sept. 29, 1953.
Car bodies, motor cars, motor cycles, etc. Alfa Romeo Società per Azioni. 583,994-5, Dec. 22; Serial Nos. 646,099-100, published Sept. 29, 1953.
Cycles, Pedal, and motor cycles and parts of and fittings therefor. Dunnelt Cycle Company Limited. 583,823, Dec. 22; Serial No. 628,679, published Sept. 29, 1953.
Cycles, Pedal, and motor cycles and parts of and fittings therefor. The Raynal Cycle Company Limited. 583,824, Dec. 22; Serial No. 628,717, published Sept. 29, 1953.
Trailers, Truck. Highway Trailer Company. 583,944-5, Dec. 22; Serial Nos. 642,970-1, published Sept. 29, 1953.
Vehicle brakes. Bendix Aviation Corporation. 583,790, Dec. 22; Serial No. 618,725, published Sept. 29, 1953.
Vehicle window weather strips. V. A. Larsen. 584,026, Dec. 22; Serial No. 641,060.

CLASS 21

Adapter for application to an ignition distributor, etc. L. R. Hove. 584,025, Dec. 22; Serial No. 639,821.
Antennae, Television. True Tronics, Inc. 583,895, Dec. 22; Serial No. 640,175, published Sept. 15, 1953.
Asbestos sheets for electrical insulation. Johns Manville Corporation. 583,821, Dec. 22; Serial No. 628,279, published Sept. 22, 1953.
Asbestos sheets for electrical insulation. Johns-Manville Corporation. 583,828, Dec. 22; Serial No. 629,800, published Sept. 22, 1953.
Batteries, Storage. Gould-National Batteries, Inc. 583,846, Dec. 22; Serial No. 632,784, published Sept. 29, 1953.
Batteries, Storage. Hobbs Battery Company. 583,837, Dec. 22; Serial No. 631,665, published Sept. 22, 1953.
Ceramic capacitors. Speer Carbon Company. 584,008, Dec. 22; Serial No. 646,579, published Sept. 22, 1953.
Electrical directional signals. Arrow Safety Device Company. 583,835, Dec. 22; Serial No. 631,089, published Sept. 22, 1953.
Electrical insulation material. Irvington Varnish & Insulator Company. 583,875, Dec. 22, Serial No. 637,380, published Sept. 15, 1953.
Electrically lighted and operated advertising display. Video-Matic Co., Inc. 583,804, Dec. 22; Serial No. 624,254, published Sept. 22, 1953.
Electrically operated cutout switch. Cogg Manufacturers, Inc. 584,028, Dec. 22; Serial No. 643,465.
Insulators. M. A. Coler. 583,973, Dec. 22; Serial No. 644,898, published Sept. 22, 1953.
Lamps, Electric. Lampes et Entreprises Électriques. 583,993, Dec. 22; Serial No. 645,993, published Sept. 22, 1953. Class 21.
Microwave plumbing. The Sperry Corporation. 583,767, Dec. 22; Serial No. 600,994, published Sept. 22, 1953.
Picture tubes, Rebuilt television. Greater Pittsburgh T.V. Company, Inc. 584,009, Dec. 22; Serial No. 646,812, published Sept. 22, 1953.
Push button switches in electric arc welding equipment. The Lincoln Electric Company. 583,768, Dec. 22. Serial No. 601,221, published Sept. 22, 1953.
Ranges, Electric, and electric dish washers. Spiegel, Inc. 583,952, Dec. 22; Serial No. 643,561, published Sept. 15, 1953.

CLASS 22

Christmas stockings which serve as containers for Christmas gifts. Town-Line Mfg. Co., Inc. 584,018, Dec. 22. Serial No. 623,093.
Decoy setter. D. Blake. 583,908, Dec. 22; Serial No. 641,121, published Sept. 1, 1953.
Doll carriages, Musical. South Bend Toy Mfg. Co. 538,968, Dec. 22, Serial No. 644,460, published Sept. 1, 1953.
Fishing lures, Artificial. Kalvig & Co. Inc. 583,904, Dec. 22; Serial No. 640,860, published Sept. 1, 1953.
Game, Playing card. A. MacPhee. 583,976, Dec. 22; Serial No. 645,329, published Sept. 29, 1953.
Golf bags. MacGregor Sport Products, Inc. 584,024, Dec. 22; Serial No. 636,426.
Hockey sticks, skis, toboggans, and snow shoes. Northland Ski Manufacturing Company. 583,975, Dec. 22. Serial No. 645,054, published Sept. 1, 1953.
Toy mops. Modglin Company, Inc. 584,023, Dec. 22; Serial No. 634,380.
Toy race cars and fire engines, Spring propelled mechanical. R. J. Pagliuso. 584,005, Dec. 22; Serial No. 646,422, published Sept. 1, 1953.

CLASS 23

Chain belt. Chain Belt Company. 94,883, renewed Jan. 13, 1954. O. G. Dec. 22.
Hammers, Pressure operated water. S. M. Mattich 584,021, Dec. 22; Serial No. 629,376.
Knives, Tobacco, and saws. W. A. Tyzack & Co. 90,762, Mar. 18, 1913. Republished Dec. 22.
Platen rolls for imprinting machines and parts thereof. The Standard Register Company. 406,064, Mar. 7, 1944. Republished Dec. 22.
Razors, shears, scissors, etc. Pearlduck, Inc. 583,799, Dec. 22; Serial No. 623,203, published Feb. 10, 1953.
Shovels, spades, scoops, etc. Baldwin Tool Works. 173,433, Sept. 25, 1923. Republished Dec. 22.
Sprayers, Hand operated. Boyle-Midway Inc. 583,763, Dec. 22; Serial No. 581,515, published Jan. 15, 1952.

CLASS 26

Photographic papers, Sensitized. Farbenfabriken Bayer. 584,017, Dec. 22; Serial No. 619,967.

CLASS 28

Jewelry, Articles of. Flint Company. 584,019-20, Dec. 22; Serial Nos. 629,100-1.
Sterling silver flatware. Oneida Community Limited. 306,373, renewed Sept. 19, 1953. O. G. Dec. 22.

CLASS 29

Brushes, Paint, wall brushes, stucco brushes. Pitegoff Brothers, Inc. 583,807, Dec. 22; Serial No. 625,625, published Sept. 29, 1953.
Powder puffs. A. Dell. 584,011, Dec. 22; Serial No. 649,872, published Sept. 29, 1953.

CLASS 31

Carbonaceous powder used to assist in filtering. Anthracite Equipment Corporation. 583,882, Dec. 22; Serial No. 638,564, published Aug. 18, 1953.
Condensing units and compressors for refrigerators. Marco Refrigerators Limited. 583,911, Dec. 22; Serial No. 641,194, published Sept. 15, 1953.
Freezers, Food storage. Thor Corporation. 583,897, Dec. 22; Serial No. 640,243, published Sept. 1, 1953.
Frozen food cabinets, refrigerating dairy wall cases, refrigerating full vision display cases, etc. Coldin Cabinet Company, Inc. 583,805-6, Dec. 22; Serial Nos. 625,460-1, published Aug. 18, 1953.
Ice chests, Portable. Louisville Tin and Stove Company. 583,885, Dec. 22; Serial No. 638,802, published Sept. 1, 1953.
Refrigerated beverage dispensers. The Steel City Manufacturing Co. 583,950, Dec. 22; Serial No. 643,246, published Aug. 25, 1953.
Refrigerators and freezers. Leonards. 583,851, Dec. 22, Serial No. 633,775, published Aug. 18, 1953.

CLASS 32

Beach and garden umbrellas. Sun Outdoor Products Company, Incorporated. 583,932-3, Dec. 22; Serial Nos. 642,178-9, published Sept. 15, 1953.
Filing cabinets, Office. U. S. Stationery Co. 583,956, Dec. 22, Serial No. 643,867, published Sept. 8, 1953.
Furniture. Henniker Crutch Co., Inc. 583,838, Dec. 22; Serial No. 631,864, published Sept. 29, 1953.
Furniture, Infants'. Rich Industries, Inc. 583,808, Dec. 22; Serial No. 626,218; published Sept. 29, 1953.
Mattresses and box springs. Sealy, Incorporated. 583,913-14, Dec. 22; Serial Nos. 641,334-5, published Sept. 15, 1953.
Mattresses, cushions and pillows, Inflatable. New York Rubber Corporation. 583,840-1, Dec. 22; Serial Nos. 632,310-11, published Sept. 29, 1953.
Pillows, cushions, throw pillows, etc. New York Feather Co., Inc. 583,883, Dec. 22; Serial No. 638,602, published Sept. 15, 1953.
Show and display cases. The Columbus Show Case Company. 583,937, Dec. 22; Serial No. 642,462, published Sept. 15, 1953.
Smoking stands. Smokador Manufacturing Co., Inc. 583,852, Dec. 22; Serial No. 633,792, published Sept. 15, 1953.
Tables, Folding aluminum. Emeco Corporation. 583,960, Dec. 22; Serial No. 644,164, published Sept. 29, 1953.
Venetian blinds. Jencraft Manufacturing Co. 583,779, Dec. 22; Serial No. 613,644, published Sept. 29, 1953.
Wardrobes, Cedar, cedar chiffarobes, cedar closets, etc. The Lane Company, Inc. 583,940, Dec. 22; Serial No. 642,822, published Sept. 15, 1953.

CLASS 37

Paper cleansing tissue and toilet tissue, paper napkins and towels. The Kroger Co. 583,970, Dec. 22; Serial No. 644,619, published Sept. 29, 1953.
Paper, Coated. Zellerbach Paper Company. 583,969, Dec. 22, Serial No. 644,484, published Sept. 29, 1953.
Paper doilies and place mats. Milwaukee Lace Paper Company. 583,963, Dec. 22; Serial No. 644,242, published Sept. 29, 1953.
Paper, Safety. George La Monte & Son. 583,909, Dec. 22; Serial No. 626,514, published Sept. 22, 1953.
Paper, Toilet. Wyoming Valley Paper Mill. 351,260, Oct. 26, 1937. Republished Dec. 22.
Paper towels. American Linen Supply Co. 583,934, Dec. 22; Serial No. 642,337, published Sept. 29, 1953.
Paper towels. Wyoming Valley Paper Mill. 364,636, Feb. 7, 1939. Republished Dec. 22.
Paper, Writing, blank checks, and business forms. The Standard Register Company. 396,489, July 21, 1942. Republished Dec. 22.
Partially printed medical summary forms. V. A. Stace. 583,886, Dec. 22; Serial No. 638,818, published Sept. 22, 1953.
Pen points and writing sets. Gregory Fount-O-Ink Company. 583,832, Dec. 22; Serial No. 630,650, published Sept. 29, 1953.
Pencils, Mechanical, and pencil-leads. H. Kuhn. 583,863, Dec. 22; Serial No. 635,701, published Sept. 29, 1953.
Pens and pencils. British Pens Limited. 583,868, Dec. 22; Serial No. 635,898, published Sept. 29, 1953.

CLASS 38

Books. Little, Brown and Company (Inc.). 583,830, Dec. 22; Serial No. 630,426, published Sept. 29, 1953.
Books. Little, Brown and Company (Inc.). 583,831, Dec. 22; Serial No. 630,429, published Sept. 29, 1953.
Bulletin, Monthly. Tracerlab, Inc. 439,237, June 8, 1948. Republished Dec. 22.

Column in a periodical trade publication. Hall Publishing Company. 583,983, Dec. 22; Serial No. 645,567, published Sept. 28, 1953.
Columns and articles in newspapers, magazines, and pamphlets. B. Taylor. 583,979, Dec. 22; Serial No. 645,440, published Sept. 29, 1953.
Greeting cards. Elm City Photo Co. 583,931, Dec. 22; Serial No. 642,024, published Sept. 29, 1953.
Illustrations, sketches, layouts, and designs, Hand drawn. The Standard Register Company. 399,298, Dec. 29, 1942. Republished Dec. 22.
Letters, symbols, marks, etc. Trans-Art Incorporated. 583,874, Dec. 22; Serial No. 637,198, published Sept 29, 1953.
Magazine. Armstrong Cork Company. 583,996, Dec. 22; Serial No. 646,104, published Sept. 29, 1953.
Magazine. Dell Publishing Company, Inc. 583,988, Dec. 22; Serial No. 645,782, published Sept. 29, 1953.
Magazine. Good Publishing Company. 583,927, Dec. 22; Serial No. 641,722, published Sept. 1, 1953.
Magazine, House. Albert Frank-Guenther Law Inc. 583,978, Dec. 22; Serial No. 645,411, published Sept. 29, 1953.
Magazine, Monthly. The American Oil Chemists' Society. 305,559, renewed Aug. 22, 1953. O. G. Dec. 22.
Magazine, Periodical. Lifetime Living, Inc. 583,965, Dec. 22; Serial No. 644,424, published Sept. 29, 1953.
Magazine section. Farm Journal, Inc. 583,977, Dec. 22; Serial No. 645,405, published Sept. 29, 1953.
Magazine, True story. Good Publishing Company. 583,888, Dec. 22; Serial No. 639,166, published Sept. 29, 1953.
Magazines. L. B Gracey. 583,972, Dec. 22; Serial No. 644,840, published Sept. 29, 1953.
Magazines. Simplicity Pattern Co., Inc. 583,987, Dec. 22; Serial No. 645,736, published Sept. 29, 1953.
Mass card folders. Friars of the Atonement, Inc 583,785, Dec. 22; Serial No. 616,852, published Sept. 29, 1953.
Periodical. C. L. Brown. 583,869, Dec. 22; Serial No. 635,993, published Sept. 29, 1953.
Periodical. Drake Merchandising Company. 583,959, Dec. 22; Serial No. 644,020, published Sept. 29, 1953.
Printed labels. Contact Products, Inc. 583,893, Dec. 22; Serial No. 640,067, published Sept. 29, 1953.
Publication. World Wool Guide Incorporated. 583,964, Dec. 22; Serial No. 644,366, published Sept. 29, 1953.
Publication column, Periodical. The Brunswick-Balke-Collender Company. 583,764, Dec. 22; Serial No. 597,319, published Sept. 29, 1953.
Publications, Monthly. Hat Life, Inc, 310,171, renewed Feb. 13, 1954. O. G. Dec. 22.
Title for a newspaper column. Tribune Company. 583,982, Dec. 22; Serial No. 645,517, published Sept. 28, 1953.

CLASS 39

Bandeaux and hair nets. Jet Knitting Mills, Inc. 583,990, Dec. 22; Serial No. 645,805, published Sept. 15, 1953.
Brassières, foundation garments, girdles, etc. Beautee-Fit Company. 583,855, Dec. 22; Serial No. 634,442, published Sept. 22, 1953.
Caps, Men's. Memphis Cap Co., Inc. 583,843, Dec. 22; Serial No. 632,531, published Sept. 1, 1953.
Diapers. J. P. Stevens & Co., Inc. 583,861, Dec. 22; Serial No. 635,496, published Sept. 1, 1953.
Dresses, Ladies' and misses'. Beaumart Co. 583,986, Dec. 22; Serial No. 645,690, published Sept. 15, 1953.
Hat bodies. Pollak Industrial Corp. 583,954, Dec. 22; Serial No. 643,710, published Sept. 1, 1953.
Hat, Sun. R. C. Schneider. 583,912, Dec. 22; Serial No. 641,331, published Sept. 1, 1953.
Hats and caps, dress shirts, outer and under shirts, etc., Men's and boys'. Adam Hat Stores, Inc. 583,880, Dec. 22; Serial No. 638,127, published Sept. 1, 1953.
Hats, Men's. Memphis Cap Co., Inc. 583,844, Dec. 22; Serial No. 632,532, published Sept. 1, 1953.
Hats, Women's. Goldstein Millinery Company. 583,860, Dec. 22; Serial No. 635,472, published Sept. 1, 1953.
Leisure wear. F. H. Heider. 583,915, Dec. 22; Serial No. 641,377, published Sept. 1, 1953.
Pajamas, pajama coats, beach coats, etc., Ladies' and girls'. Kaylon Incorporated. 583,836, Dec. 22; Serial No. 631,354, published July 28, 1953.
Pajamas, pajama coats, beach coats, etc., Women's and girls'. Kaylon Incorporated. 583,815, Dec. 22; Serial No. 627,822, published Aug. 11, 1953.
Shirts, Boys' outer. L. W. Dunlap. 583,928, Dec. 22; Serial No. 641,768, published Sept. 1, 1953.
Shirts, Sport. Summit Mills Corporation. 583,847, Dec. 22; Serial No. 632,857, published Sept. 1, 1953.
Shoes. Craddock-Terry Co. 306,479, renewed Sept. 19, 1953. O. G. Dec. 22.
Slips, bloomers, petticoats, etc. Women's and misses'. Seamprufe Incorporated. 583,873, Dec. 22; Serial No. 637,194, published Sept. 22, 1953.
Socks, Men's. Tennessee Hosiery Mills Co. 583,939, Dec. 22; Serial No. 642,710, published Aug. 25, 1953.
Suits, slacks, jackets, and topcoats, Men's. The J. L. Hudson Company. 583,792, Dec. 22; Serial No. 621,150, published Sept. 1, 1953.
Suits, trousers, topcoats, etc., Men's. Wright-Johnston Inc. 583,946, Dec. 22; Serial No. 643,015, published Sept. 1, 1953.

CLASS 40

Safety belts. R. G. Ostrander. 583,984, Dec. 22; Serial No. 645,661, published Sept. 29, 1953.
Trayeloths, trolley cloths, serviettes, etc. T. F. Beckett & Company (Fairlstyteh) Limited. 583,872, Dec. 22; Serial No. 636,963, published Sept. 29, 1953.

CLASS 42

Blankets. Beacon Manufacturing Company. 583,974, Dec. 22; Serial No. 644,957, published Sept. 22, 1953.
Fabrics. Burlington Mills Corporation. 584,006, Dec. 22; Serial No. 646,518, published Sept. 29, 1953.
Fabrics. G. R. Williams. 583,949, Dec. 22; Serial No. 643,131, published Sept. 29, 1953.
Fabrics, Cotton. Bellman Brook Bleachery Co. 308,601, renewed Dec. 12, 1953. O. G. Dec. 22.
Fabrics, Cotton. D. B. Fuller & Co., Inc. 583,989, Dec. 22; Serial No. 645,796, published Sept. 22, 1953.
Fabrics, Suiting. Samuel Hird & Sons, Inc. 584,004, Dec. 22; Serial No. 646,393, published Sept. 22, 1953.
Fabrics, Woolen. Leeds Associates Inc. 583,991-2, Dec. 22; Serial Nos. 645,903-4, published Sept. 29, 1953.
Fabrics, Woven. Tobler, Ernst & Traber, Inc. 583,916-18, Dec. 22; Serial Nos. 641,479-81, published Sept. 29, 1953.
Fabrics, Woven and knitted cotton, silk, and rayon. Adero Silk Inc. 583,782, Dec. 22; Serial No. 614,916, published Sept. 29, 1953.
Piece goods. Goodall-Sanford, Inc. 583,999-584,001, Dec. 22; Serial Nos. 646,380-2, published Sept. 22, 1953.
Piece goods. Goodall-Sanford, Inc. 584,002-3, Dec. 22; Serial Nos. 646,386-7, published Sept. 22, 1953.
Piece goods. Texas Textile Mills. 442,365, Apr. 5, 1949. Republished Dec. 22.
Piece goods. United Merchants and Manufacturers, Inc. 583,985, Dec. 22; Serial No. 645,682, published Sept. 22, 1953.
Piece goods, Cotton. W. Lind. 310,549, renewed Feb. 27, 1954. O. G. Dec. 22.
Piece goods, Wool and worsted. Lorraine Manufacturing Company. 584,007, Dec. 22; Serial No. 646,559, published Sept. 29, 1953.
Piece goods, Woolen. Wawak Company, Inc. 583,760, Dec. 22; Serial No. 559,261, published June 30, 1953.
Plastic webbing. Plastic Woven Products, Inc. 583,997, Dec. 22; Serial No. 646,164, published Sept. 29, 1953.
Rugs and carpeting, Cotton. E. T. Barwick. 583,998, Dec. 22; Serial No. 646,353, published Sept. 22, 1953.
Woven and knitted goods, piece goods, shirtings, etc. Alden Mills. 92,028, re-renewed June 17, 1953. O. G. Dec. 22.

CLASS 43

Thread. J. & P. Coats, Inc. 583,833, Dec. 22; Serial No. 630,989, published Sept. 29, 1953.
Thread and yarn. Beaunit Mills, Inc. 583,864-5, Dec. 22; Serial Nos. 633,739-40, published Sept. 22, 1953.
Threads and yarns. Farbenfabriken Bayer. 583,867, Dec. 22; Serial No. 635,824, published Sept. 29, 1953.
Threads, Single, and threads woven into strands. Societe Rhodiaceta. 583,856, Dec. 22; Serial No. 634,510, published Sept. 15, 1953.
Yarns, threads, and yarn and thread filaments. The Chemstrand Corporation. 583,881, Dec. 22; Serial No. 638,134, published Sept. 15, 1953.

CLASS 44

Dental and surgical operating lights. Ritter Dental Manufacturing Company, Inc. 306,340, renewed Sept. 19, 1953. O. G. Dec. 22.
Surgical gauze, absorbent cotton, sanitary napkins, etc. Nyal Company. 103,790, Apr. 13, 1915. Republished Dec. 22.

CLASS 45

Cider, Apple. E. J. Neville. 583,936, Dec. 22; Serial No. 642,452, published Sept. 29, 1953.
Fruit flavored bases for making soft drinks. Presto Beverage Corporation. 583,765, Dec. 22; Serial No. 598,546, published Sept. 15, 1953.
Lemonade concentrate. Nedick's, Inc. 583,853, Dec. 22; Serial No. 633,857, published Sept. 15, 1953.
Soft drinks, Non-alcoholic maltless, and carbonated waters. Rotella Beverages, Inc. 583,887, Dec. 22; Serial No. 639,144, published Sept. 15, 1953.

CLASS 46

Bakers' confections. Zion Industries, Inc. 583,903, Dec. 22; Serial No. 640,829, published Sept. 1, 1953.
Candy. C. N. Miller. 95,225, re-renewed Feb. 3, 1954. O. G. Dec. 82.
Candy, Caramel-like. Squirrel Brand Company. 583,859, Dec. 22; Serial No. 635,440, published Sept. 29, 1953.
Canned fish. South Pacific Canning Company. 583,812, Dec. 22; Serial No. 626,909, published June 23, 1953.
Canned fruits, canned vegetables, and canned shrimp. Mayhaw Canning Company, Inc. 583,761, Dec. 22; Serial No. 563,943, published Sept. 8, 1953.
Canned natural milk. North American Milk Industries, Inc. 584,029, Dec. 22; Serial No. 643,705.
Canned salmon. Geo. T. Myers & Co. 90,363, Feb. 18, 1913. Republished Dec. 22.

Canned tuna fish. South Pacific Canning Company. 583,926, Dec. 22; Serial No. 641,697, published Aug. 11, 1953.
Canned vegetables. The Larsen Company. 583,802, Dec. 22; Serial No. 624,036, published Sept. 15, 1953.
Canned vegetables and fruits. G. T. Springer 306,405, renewed Sept. 19, 1953. O. G. Dec. 22.
Chicken, Fried, and prepared meals. C. A. Beatty. 583,871, Dec. 22; Serial No. 636,269, published Sept. 29, 1953.
Cocoa and chocolate. Seeman Bros. 41,762, re-renewed Dec. 29, 1953. O. G. Dec. 22.
Coffee, canned peas, and oleomargarine. H. G. Hill Stores, Inc 308,792, renewed Dec. 19, 1953. O. G. Dec. 22.
Coffee, tea, and rice. S. A. Schonbrunn & Co., Inc. 583,889, Dec. 22; Serial No. 639,342, published Sept. 1, 1953.
Feed, Poultry and stock. Ralston Purina Company. 583,759, Dec. 22; Serial No. 552,707, published Sept. 8, 1953.
Fish fillets, Quick-frozen. Grimsby Frozen Products Limited. 583,778, Dec. 22; Serial No. 611,178, published Feb. 12, 1952.
Food product. Lewis-Harwood & Co., Inc. 584,022, Dec. 22; Serial No. 631,242.
Fruits, Dried, and evaporated fruits. Edwards Freeman, Inc. 583,906, Dec. 22; Serial No. 640,925, published Sept. 8, 1953.
Fruits, Fresh citrus. Sunkist Lemon Association. 583,971, Dec. 22, Serial No. 644,792, published Sept. 1, 1953.
Ginger, Cartons of crystallized. J. Lyons & Co. Ltd Inc. 583,786, Dec. 22; Serial No. 616,857, published Sept 15, 1953.
Ham, Smoked, bacon, frankfurts, etc. Swift & Company. 584,010, Dec. 22; Serial No. 647,242, published Sept. 29, 1953.
Macaroni. Ronzoni Macaroni Co., Inc. 583,892, Dec. 22; Serial No. 639,780, published Sept. 29, 1953.
Pears, Fresh. Ukiah Fruit Growers, Inc. 242,587, May 29, 1928. Republished Dec. 22.
Pickles and sauerkraut. Röthman Pickle Products, Inc. 583,816, Dec. 22; Serial No. 627,841, published Sept. 15, 1953.
Potato chips, deep-fried cheese-flavored cornmeal product, corn chips, etc. Bell Brand Foods, Ltd. 583,770-2, Dec. 22. Serial Nos. 604,139-41, published Sept. 29, 1953.
Poultry, Fresh dressed, poultry feed and livestock feed. W. H. Kauffman. 583,797, Dec. 22; Serial No. 622,720, published Sept. 22, 1953.
Preserves, jams, marmalades, Fruit and berry, etc. P. Håkanssons Konserver Aktiebolag. 583,769, Dec. 22; Serial No. 601,486, published Sept. 22, 1953.
Soup, Frozen snapper. D. F. McCallister. 583,766, Dec. 22; Serial No. 600,729, published Sept. 22, 1953.
Sugar, Refined. Victorias Milling Company, Inc 306,480, renewed Sept. 19, 1953. O. G. Dec. 22.
Tea. Joseph Tetley & Co., Inc. 308,242, renewed Nov. 28, 1953. O. G. Dec. 22.
Tomatoes, Whole, fresh, shelled and unshelled nuts. In Marc Bros. 583,803, Dec. 22; Serial No. 624,131, published Feb. 24, 1953.
Vegetables, Fresh. W. B. Hubbard 420,155, Mar. 26, 1946. Republished Dec. 22.
Vegetables, Fresh. J. S. McManus 399,137, Dec. 15, 1942. Republished Dec. 22.
Vegetables, Fresh. O'Keefe Brothers 388,205, June 17, 1941. Republished Dec. 22.
Vegetables, Fresh. Santa Cruz Artichoke & Sprout Growers 369,632-3, Aug. 1, 1939. Republished Dec. 22.

CLASS 47

Wines. A. Bologna & Company. 583,783, Dec. 22; Serial No. 615,682, published Sept. 15, 1953.
Wines. California Cellars. 583,941, Dec. 22; Serial No. 642,942, published Sept. 15, 1953.
Wines. National Distillers Products Corporation. 583,922, Dec. 22; Serial No. 641,630, published Sept. 15, 1953.

CLASS 48

Ale. The Buckeye Brewing Co. 583,938, Dec. 22; Serial No. 642,522, published Sept. 15, 1953.
Beer. Gabriel & Jos. Sedlmayr Spaten-Franziskaner Leistbräu A.-G. Munchen. 331,061, Dec. 24, 1935. Republished Dec. 22.
Beer. Gabriel u. Jos. Sedlmayr. Spaten-Franziskaner-Leistbräu A.-G. Munchen. 335,590, June 9, 1936. Republished Dec. 22.
Beer. G. Heileman Brewing Co. 583,857, Dec. 22; Serial No. 634,535, published Sept. 29, 1953.
Beer. Los Angeles Brewing Company. 583,848, Dec. 22; Serial No. 633,311, published Sept. 15, 1953.
Beer. The Stroh Brewery Company. 583,929, Dec. 22; Serial No. 641,871, published Sept. 29, 1953.
Beer and ale. G. Krueger Brewing Company. 583,921, Dec. 22; Serial No. 641,621, published Sept. 15, 1953.
Malt beverage. Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. Munchen. 304,894, July 18, 1933. Republished Dec. 22.

CLASS 49

Alcoholic beverages. Julius Kessler Distilling Co., Inc. 583,793, Dec. 22; Serial No. 621,562, published Sept. 15, 1953.
Alcoholic cordial, Distilled. Jourde Freres. 308,195, renewed Nov. 21, 1953. O. G. Dec. 22.
Brandy, Apple. Laird & Company. 583,935, Dec. 22; Serial No. 642,411, published Sept. 15, 1953.
Liqueur, Apricot. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie). 583,788, Dec. 22; Serial No. 617,712, published Sept. 8, 1953.
Liqueur, Cherry. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie). 583,787, Dec. 22; Serial No. 617,711, published Sept. 8, 1953.
Liqueurs, Alcoholic. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie) 583,789, Dec. 22; Serial No. 617,715, published Sept 15, 1953.
Whiskey. The American Medicinal Spirits Company. 310,076, renewed Feb. 13, 1954. O. G. Dec. 22.
Whiskey. James B. Beam Distilling Co. 583,845, Dec. 22; Serial No. 632,587, published Sept. 29, 1953.
Whiskey. Joseph S. Finch and Company 583,776, Dec. 22; Serial No. 607,896, published Sept 15, 1953.
Whiskey. Highspire Distillers Corporation. 583,795, Dec. 22; Serial No. 622,156, published Sept. 15, 1953.
Whiskey. B. P. Lillenthal 310,245, renewed Feb. 13, 1954. O. G. Dec. 22.
Whiskey, gin and brandy. National Distillers Products Corporation. 583,923, Dec. 22; Serial No. 641,631, published Sept. 15, 1953.
Whiskey, gin, distilled alcoholic cordials etc. W. Sheinker & Son, Inc. 310,546, renewed Feb. 27, 1954. O. G. Dec. 22.
Whisky. Robertson and Baxter, Limited. 583,894, Dec. 22; Serial No. 640,130, published Sept. 15, 1953.

CLASS 50

Automobile seat cover installation kit. The Pure Oil Company. 583,777, Dec. 22; Serial No. 610,025, published Sept. 15, 1953.
Canvases, Artist's. R. E. Grossman. 583,861, Dec. 22, Serial No. 623,883, published Sept. 15, 1953.
Composite structure made of open-mesh sheet material. Pyroxylin Products, Inc. 440,623, Sept. 14, 1948. Republished Dec. 22.
Decorative streamers. Dazian's Inc. 583,829, Dec. 22; Serial No. 630,392, published Sept. 22, 1953.
Matrices. Master Matrix Service Company, Inc. 583,822, Dec. 22; Serial No. 628,360, published Sept. 22, 1953.
Novelties and souvenirs. F. Powell. 387,893, June 3, 1941. Republished Dec. 22.
Pallet boxes. Rack Engineering Company. 583,870, Dec. 22; Serial No. 636,148, published Sept. 15, 1953.
Road signs, emblems, and badges. The American Automobile Association. 303,862, renewed June 13, 1953. O. G. Dec. 22.
Tent, Portable collapsible. H. Schmiege. 583,858, Dec. 22; Serial No. 635,101, published Sept. 15, 1953.

CLASS 51

Dentifrice. Barclay & Barclay. 93,516 re-renewed Sept. 23, 1953. O. G. Dec. 22.
Deodorant, Personal. Carter Products, Inc. 583,896, Dec. 22; Serial No. 640,192, published Sept. 29, 1953.
Eyelash make-up, lip rouge, foundation cream, etc. Elizabeth Arden Sales Corporation. 584,030, Dec. 22; Serial No. 644,952.
Hair-pressing oil. L. T. A. Preston. 583,877, Dec. 22; Serial No. 637,462, published Sept. 29, 1953.
Lotion, Face, and body lotion. Helena Rubinstein Inc. 583,780, Dec. 22; Serial No. 614,631, published Sept. 29, 1953.
Pastes, powders, creams, etc. Potter & Moore Limited. 309,359, renewed Jan. 9, 1954. O. G. Dec. 22.
Toilet preparation. Mary Chess, Inc. 307,470, renewed Oct. 24, 1953. O. G. Dec. 22.

CLASS 52

Antifreeze composition, bed bug exterminator preparation, boiler compounds, etc. Fuld Bros., Inc. 307,296, renewed Oct. 24, 1953. O. G. Dec. 22.
Cleaning and washing compound. Serene Kleaner Company. 309,464, renewed Jan. 16, 1954. O. G. Dec. 22.
Cleaning fluids, Dry. D. Blum & Co. Inc. 309,995, renewed Feb. 6, 1954. O. G. Dec. 22.
Soap. Colgate-Palmolive-Peet Company. 309,496, renewed Jan. 16, 1954. O. G. Dec. 22.
Soap preparations. H. Th. Böhme, Aktiengesellschaft, Chemnitz. 303,348, renewed May 23, 1953. O. G. Dec. 22.
Soap preparations. H. Th. Böhme, Aktiengesellschaft, Chemnitz. 305,892, renewed Aug. 29, 1953. O. G. Dec. 22.
Washing agents and detergents. The Proctor & Gamble Company. 584,031, Dec. 22; Serial No. 654,290.

CLASS 100

Services relating to the improvement of mental health. The National Association for Mental Health, Inc. 584,016, Dec. 22; Serial No. 640,352, published Sept. 29, 1953.

CLASS 103

Constructing, altering, and repairing oil and chemical processing plants. Procon Incorporated. 584,013, Dec. 22; Serial No. 634,803, published Sept. 29, 1953.

Well treating services. Dowell Incorporated. 584,015, Dec. 22; Serial No. 638,639, published Sept. 29, 1953.

CLASS 104

Radio program broadcasting service. Radiohio, Incorporated. 584,014, Dec. 22; Serial No. 634,859, published Sept. 29, 1953.

CLASS 105

Travel agency services. Lissone-Lindeman U. S. A., Inc. 584,032, Dec. 22; Serial No. 636,483.

CLASS 107

Entertainment through the media of an integrated series of dramatic radio and television programs. Phillips H. Lord, Inc. 584,012, Dec. 22; Serial No. 608,118, published Sept. 29, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Du Pont, E. I. de Nemours & Company, assignee: *See*—
Pike, Ralph E.

Ernst, Alfred, Milan, Italy. Apparatus for testing the hardness of materials. Re. 23,755, Dec. 22.

Juilfs, Albert G., Newtown, assignor to Senco Products, Inc., Cincinnati, Ohio. Staple feed mechanism for portable pneumatic staplers. Re. 23,756, Dec. 22.

Senco Products, Inc., assignee: *See*—
Juilfs, Albert G.

Pike, Ralph E., Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Complementary color blending. Re. 23,757, Dec. 22

LIST OF PLANT PATENTEES

Bobbink Nurseries, Inc., assignee. *See*—
Jacobus, Martin R.

Jacobus, Martin R., Ridgefield, assignor to Bobbink Nurseries, Inc., East Rutherford, N. J. Rose plant 1,234, Dec. 22

LIST OF DESIGN PATENTEES

Adkinson, Joseph E., York, Pa., assignor to Thonet Industries, Inc., New York, N. Y. Chair. 171,116, Dec. 22.

Ball, Herbert G., Media, Pa. Concealed dial for a combination lock. 171,117, Dec. 22.

Basore, Helen L., assignor to Preston Poynter Foundation, Pasadena, Calif. Pitcher. 171,118, Dec. 22.

Bausch & Lomb Optical Company, assignee. *See*
Stegeman, Raymond F. E.

Bergmann, Ernst R., Evergreen Park, assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer trough. 171,119, Dec. 22.

Capouch, Elmer M., Cicero, Ill. Ash tray or similar article. 171,120, Dec. 22.

Chernow, Michael, New York, N. Y. Link chain for a necklace or similar article. 171,121, Dec. 22.

Commonwealth Sanitation Company, assignee. *See*
Zelenka, Louis P.

Conlin, Madeleine L., Locust Valley, N. Y. Ice cream cup. 171,122, Dec. 22.

Coro, Inc., assignee. *See*
Katz, Adolph.

Ekstrand, Ernest W., Orange, N. J. Ash tray. 171,123, Dec. 22.

Estrada, Albert O., Larkspur, Calif. Service wagon. 171,124, Dec. 22.

Fox, Alexander P., University City, and A. D. Reisert, Bel-Nor, assignors to Lincoln Engineering Company, St. Louis, Mo. Cabinet for lubricating equipment. 171,125, Dec. 22.

Fryer, Gilbert N., Glendora, Calif. Pencil sharpener. 171,126, Dec. 22.

General Tire & Rubber Company, assignee. *See*
Lamoman, Clay D.

Gimble, Irving, and D. Musano, New York, N. Y. Brassière. 171,127, Dec. 22.

Goldstein, William H., Atlanta, Ga. Diaper cover or the like. 171,128, Dec. 22.

Goodman Manufacturing Company, assignee. *See*
Bergmann, Ernst R.

Goodson, James P., Childress, Tex. Calendar. 171,129, Dec. 22.

Gruner, William J., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Shoe sole. 171,130, Dec. 22.

Hudson, Kenneth K., Tampa, Fla. Bottle carrying case. 171,131, Dec. 22.

Hudson, Kenneth K., Tampa, Fla. Carrying case for bottles. 171,132, Dec. 22.

Industrial Lamp Corporation, assignee: *See*
Morgan, Jack.

Jay, Charles E., Long Beach, Calif. Helicopter. 171,133, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,134, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,135, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,136, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,137, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,138, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,139, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,140, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,141, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,142, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,143, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,144, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,145, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,146, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,147, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 171,148, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,149, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 171,150, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 171,151, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 171,152, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a necklace or the like. 171,153, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 171,154, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 171,155, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a necklace or the like. 171,156, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 171,157, Dec. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 171,158, Dec. 22.

Knight, Frank E., Saginaw, Mich. Medicine cabinet. 171,159, Dec. 22.

Lampman, Clay D., Cuyahoga Falls, assignor to The General Tire & Rubber Company, Akron, Ohio. Tire rack. 171,160, Dec. 22.

Larabell, Le Roy E., Detroit, Mich. Combined display and protective device for a telephone receiver or similar article. 171,161, Dec. 22.

Lincoln Engineering Company, assignee: *See*
Fox, Alexander P., and Reisert.

Lyon, George A., Detroit, Mich. Wheel cover or similar article. 171,162, Dec. 22.

McCreary, John T., Chicago, Ill. Combined vehicle steering wheel and horn ring. 171,163, Dec. 22.

Morgan, Jack, Chicago, Ill., assignor to Industrial Lamp Corporation, Elkhart, Ind. Lighting fixture or similar article. 171,164, Dec. 22.
Musano, Daniel: *See*—
Gimble, Irving, and Musano.
Newmark, Marshall F., Spring Valley, assignor to Progressive Products, Inc., La Mesa, Calif. Teething aid. 171,165, Dec. 22.
Odom, Winifred P., Cambridge City, Ind. Apron. 171,166, Dec. 2.
Polk, Emil S., New York, N. Y. Combination tool. 171,167, Dec. 22.
Preston-Poynter Foundation, assignee: *See*—
Basore, Helen L.
Progressive Products, Inc., assignee: *See*
Newmark, Marshall F.
Riesert, August D: *See*—
Fox, Alexander P., and Reisert.
Roper, Geo. D., Corporation, assignee: *See*—
Stuman, Jack B.
Ross, Lyall M., Balwyn, Victoria, Australia. Sandwich dish. 171,168, Dec. 22.
Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Diagnostic instrument head. 171,169, Dec. 22
Sterling Studios Inc., assignee: *See*—
Swede, Hilda.
Stuman, Jack B., assignor to Geo. D. Roper Corporation, Rockford, Ill. Escutcheon plate for a stove or range. 171,170, Dec. 22.
Suma, Arthur R., Sr., Chicago, Ill. Pair of spectacles. 171,171, Dec. 22.
Swede, Hilda, Bronx, assignor to Sterling Studios Inc., New York, N. Y. Combined floor lamp and book support. 171,172, Dec. 22.
Tapley, Mildred M., Wellesley Hills, Mass. Hat. 171,173, Dec. 22.
Teague, James, Chicago, Ill., assignor to White Magic Freezer Company. Refrigerator-type ice-cream freezer. 171,174, Dec. 22.
Thonet Industries, Inc., assignee: *See*—
Adkinson, Joseph E.
United States Rubber Company, assignee: *See*—
Gruner, William J.
Wells, Paul D., Oakland, Calif. Fishing outrigger. 171,175, Dec. 22.
White Magic Freezer Company, assigne: *See*—
Teague, James.
Yellen, Maxwell, West New York, N. J. Chair. 171,176, Dec. 22
Zelenka, Louis P., Mount Lebanon, assignor to Commonwealth Sanitation Company, Pittsburgh, Pa. Deodorizer. 171,177, Dec. 22.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aaronson, Harry, Cedarhurst, assignor to Perfect Knit Togs, Inc., New York, N. Y. Infant's garment. 2,663,022, Dec. 22.
Abbott, William R., Springfield Gardens, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting machine. 2,663,409, Dec. 22.
Abel, Joe, Ponca City, Okla. Mechanical belt buckle. 2,663,062, Dec. 22.
Ackermann, Otto: *See*—
De Val, Eugene J., and Ackermann.
Acrometal Products, Inc., assignee: *See*—
Bieber, Frederick J., and Overholt.
Adams, Dolor N.: *See*—
Wood, William H., and Adams.
Adcock, Mack D., Los Angeles, Calif., and A. E. Marston, Washington, D. C. Helical antenna scanning system. 2,663,869, Dec. 22.
Address-It Corporation, assignee: *See*—
Sauerman, Ernst C., Hopkins, and Joseph and John Erwood.
Aeroquip Corporation, assignee: *See*—
Rundell, Harwood F.
Aerosol Corporation of America, assignee: *See*—
Dautrebande, Lucien.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Daul, George C., Reid, and Reinhardt.
Ahnell, Karl J., Erie, Pa., assignor to General Electric Company. Hatchway closure. 2,663,268, Dec. 22.
Aircooled Motors, Inc., assignee: *See*—
Bynum, George T.
Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Krautter, Willy F., Kamm, and Staiger.
Wood, William W., Jr., and Lundquist.
Air-Maze Corporation, assignee: *See*—
Savitz, Christian W.
Air Preheater Corporation, The, assignee: *See*—
Hammond, William E., and Ballard.
Air Products, Incorporated, assignee: *See*—
Anderson, Carl R.
Schilling, Clarence J.
Ajax Buff Company, assignee: *See*
Ruthven, William.
Ajax Metal Company, The, assignee: *See*—
Wyatt, James R.
Aktiebolaget Elektrolux, assignee: *See*—
Ullstrand, Hugo M.
Aktiebolaget Kamyr, assignee: *See*—
Johansen, Rolf J.
Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Wideröe, Rolf.
Albert, Jerome G., Chicago, Ill. Foldable coat hanger. 2,663,470, Dec. 22.
Albrecht, Alexander J., West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Means for constructing printing plates. 2,663,349, Dec. 22.
Alexander, Carl Z., Chatham, N. J. Heating device. 2,663,787, Dec. 22
Allen, Harry J., Palo Alto, and R. N. Olson, Santa Clara, Calif. Flexible supersonic nozzle. 2,663,322, Dec. 22.
Allen, Herbert, assignor to Cameron Iron Works, Inc., Houston, Tex. Forging process and apparatus. 2,663,205, Dec. 22.
Allen, John W.: *See*—
Wiggins, John H., and Allen.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Gruner, Frederick R.
Rosenberg, Leon T., and Kuehlthau.
Amblard, Joseph, Paris, France. Electric indicating device. 2,663,856, Dec. 22.
American Cyanamid Company, assignee: *See*—
Clarke, Frank H.
Conroy, Edward A.
Conroy, Edward A., and Parker.
Donofrio, Alfonso M.
Kropa, Edward L.
Parker, Robert P., Seeger, and Kuh.
Stirn, Frank E., and Taylor.
American Defibrator Inc., assignee: *See*—
Messing, Hjalmar S.
American Iron and Machine Works Company, assignee: *See*—
Birdwell, Louis J.
American Locomotive Company, assignee: *See*—
Gloyer, Walter.
American Manufacturing Company, Inc., assignee: *See*—
Pierce, Alfred F.
American Optical Company, assignee: *See*
Ellis, Charles A.
Herrmann, John F., and Gilbert.
American Viscose Corporation, assignee: *See*—
Nelson, Seddon C.
Yehling, George C., Jr.
Amiet, Oscar, La Chaux de Fonds, Switzerland. Apparatus for sharpening drills. 2,663,126, Dec. 22.
Amity Leather Products Co., assignee: *See*—
Benedict, Leonard E.
Amundson, Roald H., assignor to McGraw Electric Company, Milwaukee, Wis. Combination fuse cutout and switch. 2,663,825, Dec. 22.
Anderes, Eugene A., and E. J., San Diego, Calif. Microslide washing machine. 2,663,305, Dec. 22.
Anderes, Eula J.: *See*—
Anderes, Eugene A. and E. J.
Anderson, Arthur J.: *See*—
Lentz, Marshall E., Anderson, and Driffill.
Anderson, Carl R., Allentown, Pa., assignor to Air Products, Incorporated. Method of and apparatus for pumping liquefied gases. 2,663,166, Dec. 22.
Anderson, Charles H. J: *See*—
Van Werd, Johannes H. F., and Anderson.
Anderson, Raymond T., Lakewood, assignor to The V. D. Anderson Company, Cleveland, Ohio. Counter-current extraction apparatus. 2,663,623, Dec. 22.
Anderson, V. D., Company, The, assignee: *See*—
Anderson, Raymond T.
Anderson, Werner B., assignor to Detroit Steel Products Company, Detroit, Mich. Inlaid surface for window sills. 2,663,388, Dec. 22
Andersson, J. R., & Co. A B, assignee: *See*—
Dahlberg, Bengt R.
Angel, Perry L.: *See*—
Mackay, Thomas R., and Angel.
Anker Werke, A. G., assignee: *See*—
Schaper, Hans.
Anxionnaz, Rene: *See*—
Waeselynck, Raymond F. M.
Arden, David B., Moylan, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Transportation of granular solids. 2,663,595, Dec. 22.
Ardis, Alan E., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pyrolysis of diacyl cyanides. 2,663,726, Dec. 22.
Arenberg, Albert L., Highland Park, assignor to Patent License Corporation, Chicago, Ill. Vehicle light controlling lens panel. 2,663,794, Dec. 22.
Armacost, Wilbur H., Scarsdale, N. Y., assignor to Combustion Engineering, Inc. Superheat and reheat control. 2,663,287, Dec. 22.
Armatys, Edward F., New York, assignor to Sun Chemical Corporation, Long Island City, N. Y. Textile printing emulsions comprising thermoplastic resin latices dispersed in solutions of thermosetting resins in organic solvents. 2,663,696, Dec. 22.
Armco Steel Corporation, assignee: *See*—
Linnert, George E.
Armstrong-Bray & Co., assignee: *See*—
Ogard, Helmer.
Armstrong Cork Company, assignee: *See*—
Gard, George E.
Armstrong, Daniel A., B. Carlson, and C. A. Walz, assignors to Scott-Atwater Manufacturing Co. Inc., Minneapolis, Minn. Outboard motor with reversing mechanism and control. 2,663,277, Dec. 22.
Armstrong, Emerson A.: *See*—
Ramsell, William H., and Armstrong.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
MacGlashan, William F., Jr.
Meyer, Richard E., and Beardsley.
Thompson, Parke H.
Arnold, Steve, Brooklyn, N. Y. Shirt hold-down device. 2,663,026, Dec. 22.
Asbury, Charles T., Fort Lauderdale, Fla., assignor to Asbury Corporation, Wilmington, Del. Lawn edger. 2,663,137, Dec. 22.
Asbury Corporation, assignee: *See*—
Asbury, Charles T.
Ashley, Loyd F., assignee: *See*—
Hutchison, James R.
Atlas Press Company, assignee: *See*—
Herder, Harry D.

Auerbach, William, assignee: *See—*
De Pinto, Sergio.
Automatic Electric Laboratories, Inc., assignee: *See—*
Lomax, Clarence E.
Tinsman, Jack R., Novy, and Pence.
Voss, John H.
Ayres, Arthur U., Chestnut Hill, Pa., assignor to The Sharples Corporation. Continuous alkali refining of vegetable oils. 2,663,719, Dec. 22.
Baash-Ross Tool Company, assignee: *See—*
Gardner, James D.
Babbitt, Bernard R., and C. B. Kunz, assignors to Manganese Chemicals Corporation, Minneapolis, Minn. Leaching manganese ore. 2,663,618, Dec. 22.
Bacchi, Ray, assignor to The Pelton Water Wheel Company, San Francisco, Calif. Spherical valve. 2,663,538, Dec. 22.
Bachman, Harry L., Sr., Columbus, Ohio. Combination cigarette supporting and extinguishing device. 2,663,301, Dec. 22.
Badische Anilin- & Soda-Fabrik Aktiengesellschaft, assignee: *See—*
Ebel, Friedrich.
Graf, Fritz, and Toepel.
Michelitsch, Walter.
Schlecht, Leo, and Oestreicher.
Bagley, John F., Jr., South Hadley, assignor to Stanley Home Products, Inc., Westfield, Mass. Mop having hinged backing plates for wringing. 2,663,039, Dec. 22.
Bailey, Edmund L., Toledo, Ohio, assignor to Petrolite Corporation. Electric treater. 2,663,687, Dec. 22.
Baker, Joss F., Peoria, Ill. Apparatus for cooling and dehumidifying air. 2,663,156, Dec. 22.
Baker-Raulang Company, The, assignee: *See—*
Schenkelberger, Frank J.
Baker, Robert M., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Radio frequency current transformer. 2,663,827, Dec. 22.
Baldwin, Clyde P., Claremont, N. H., assignor to Joy Manufacturing Company. Rocking axle structure for mining apparatus. 2,663,266, Dec. 22.
Baldwin-Lima-Hamilton Corporation, assignee: *See—*
Ruge, Arthur C.
Ball, Clarence L., assignee: *See—*
Thomas, Lawrence E.
Ballard, Clayton A.: *See—*
Hammond, William E., and Ballard.
Banks, Waldo H.: *See—*
Budzyna, Walter J., and Banks.
Barnes, Brunner C., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Stabilizing raw gasoline. 2,663,669, Dec. 22.
Barnes, William A.: *See—*
Zeidler, Reinhold C., and Barnes.
Barrell, Robert F.: *See—*
Large, William E., and Barrell.
Bashara, Samuel F., Houston, Tex. Water replenishing device for storage batteries. 2,663,751, Dec. 22.
Bates, C. J., & Son, assignee: *See—*
Joslyn, Stuart S.
Battershill, Frederick J., deceased, Woodlands, South Croydon, England, V. L. Is. Battershill, sole executrix. Combustion of liquid fuel. 2,663,559, Dec. 22.
Battershill, Vivien L. A., sole executrix: *See—*
Battershill, Frederick J.
Baudry, René A., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Separately mounted fan means for generator ventilation. 2,663,807, Dec. 22.
Bauer, Joseph A., Paul, Idaho. Cultivator attachment for tractors. 2,663,240, Dec. 22.
Bauersfeld, Walther, and E. Bernhardt, Heidenheim (Brenz), Württemberg, assignors to Zeiss-Opton Optische Werke Oberkochen G. m. b. H., Oberkochen, Germany. Device for production of uniform circle graduations. 2,663,082, Dec. 22.
Baumrucker, William, Jr., Stamford, Conn., assignor to Research Corporation, New York, N. Y. Stereotype molding. 2,663,251, Dec. 22.
Bausch & Lomb Optical Company, assignee: *See—*
Hunt, John J.
Beardsley, Orie L.: *See—*
Meyer, Richard E., and Beardsley.
Becker, Otto W., Woodmont, Conn. Fluid controlled alarm system for jails. 2,663,271, Dec. 22.
Bede, James A., Cleveland, Ohio. Multiple passage flexible hose and coupling therefor. 2,663,325, Dec. 22.
Beggs, George E., Jr., Warrington, Pa., and A. W. Kozak, Camden, N. J., assignors to Leeds and Northrup Company, Philadelphia, Pa. Calibrating measuring system. 2,663,855, Dec. 22.
Begwaco Meters Limited, assignee: *See—*
Butterworth, Edward, and Hinchcliffe.
Beidler, Edward A.: *See—*
Crowley, Henry L., Graham, and Beidler.
Belasco, Harold G., assignee: *See—*
Turnberg, Clarence F.
Belgau, Robert C., Detroit, Mich. Cargo carrier for motor vehicles. 2,663,472, Dec. 22.
Belisle, Adelard J., South Hadley Falls, assignor to The Berkline Corporation, Chicopee Falls, Mass. Reclining chair. 2,663,357, Dec. 22.
Bell, John F., Glenview, Ill., assignor to Zenith Radio Corporation. Ultrahigh-frequency oscillation generator. 2,663,799, Dec. 22.
Bell, Joseph D., deceased, San Francisco, Calif.; P. B. Bell, administratrix. Chair bed. 2,663,354, Dec. 22.
Bell, Pearl B., administratrix: *See—*
Bell, Joseph D.
Bell Telephone Laboratories, Incorporated, assignee: *See—*
Brattain, Walter H.
Carr, James A., Haskell, Sutton, and Walter.
Darlington, Sidney.
Goddard, Charles T.
Harley, Joseph J.
Ilgenfritz, Lester M.
Insley, Norman, and Tanner.
Kock, Winston E.
Lewis, Willard D.
Meacham, Larned A.
Mohr, Milton E.
Oliver, Bernard M.
Raisbeck, Gordon, and Wallace.
Walsh, Edward J.
Wier, Anthony J.
Benbury, George W., Drexel Hill, and H. W. Ingham, Lansdowne, assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Container having a flexible nozzle and a flexible cap. 2,663,463, Dec. 22.
Bendix Aviation Corporation, assignee: *See—*
Cairnes, Charles W.
Haas, Harold G.
Lawrence, Donald M.
Maiorany, Robert T.
Marinelli, Joseph.
Rossire, Francis H. S.
Bendz, Waldemar L., Weston, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Food dispensing apparatus control system. 2,663,477, Dec. 22.
Benedict, Leonard E., assignor to Amity Leather Products Co., West Bend, Wis. Die for cutting and impressing relatively thin leather. 2,663,180, Dec. 22.
Bennett, James G., North Bend, Wash. Plane file shoe attachment. 2,663,070, Dec. 22.
Bennett, Leonard W., assignee: *See—*
Lahonen, Toivo.
Berger, Daniel A. and G. S., Brooklyn, N. Y. All hand weaving adjustable loom. 2,663,066, Dec. 22.
Berger, Gerard S.: *See—*
Berger, Daniel A. and G. S.
Berkline Corporation, The, assignee: *See—*
Belisle, Adelard J.
Berkovitz, Harry, Weehawken, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Elevator brake. 2,663,387, Dec. 22.
Berman, Frank, Pewaukee, Wis. Utility attachment for automobile steering wheels. 2,663,576, Dec. 22.
Bernard, Edward, Co., assignee: *See—*
Vellin, Bernard.
Bernhardt, Eugen: *See—*
Bauersfeld, Walther, and Bernhardt.
Bertele, Ludwig J., St. Gall, Switzerland. Optical objective comprising six lenses grouped into three air spaced components. 2,663,221, Dec. 22.
Bewley, Thomas, Epsom, and F. J. Wilkins, Epsom Downs, England, assignors to Hercules Powder Company. Manufacture of phenol. 2,663,743, Dec. 22.
Bianco, Joseph F., Medford, Mass. Slotted dielectric coaxial line and making same. 2,663,754, Dec. 22.
Bieber, Frederick J., and L. E. Overholt, assignors to Acrometal Products, Inc., Minneapolis, Minn. Forming spools. 2,663,673, Dec. 22.
Bigelow-Sanford Carpet Company, Inc., assignee: *See—*
Carrigan, Raymond J.
Bird, James R., Chagrin Falls, Ohio. Coupling means for coaxial electrical lines. 2,663,753, Dec. 22.
Birdwell, Louis J., assignor to American Iron and Machine Works Company, Oklahoma City, Okla. Washout sub for well packers. 2,663,307, Dec. 22.
Birtman Electric Company, assignee: *See—*
Sporney, George C.
Bissell, William T., and T. W. Potter, assignors to Journal Box Servicing Corporation, Indianapolis, Ind. Axle stop for journal boxes. 2,663,583, Dec. 22.
Black, Donald, assignee: *See—*
Gilbert, Charles L.
Blan, Clayton D., Tucson, Ariz. Rearview mirror means. 2,663,225, Dec. 22.
Bland, Marshall R., House Springs, and E. J. Young, Valley Park, assignors to Monsanto Chemical Company, St. Louis, Mo. Preparation of dialkoxythiophosphoryl chloride. 2,663,723, Dec. 22.
Blankenship, William G., Jr., and G. S. McCloy, Springfield, Mass. Fluid treating tank for photographic developing. 2,663,236, Dec. 22.
Blaw-Knox Company, assignee: *See—*
Coats, Hal B.
Ornitz, Martin N., and English.
Bloem, Herman, and M. Stel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Continuous method of preparing novolaks and devices suitable for such methods. 2,663,699, Dec. 22.
Bodine, Herbert J., Newtown, Conn. Carrier for mower attachments. 2,663,134, Dec. 22.

Boe, Robert C.: *See—*
McDonald, Donald C., Mathews, and Boe.
Boeing Airplane Company, assignee: *See—*
Hage, Sigurd D.
Leisy, Clifford J.
Yarber, Gordon W.
Bolly, Norman E., Central Falls, R. I., assignor to Universal Winding Company, Boston, Mass. Yarn-winding device. 2,663,508, Dec. 22.
Bolding, Hubert V., and E. G. Gowens, Jeffersonville, Ind., assignors to The Bradley & Gilbert Company, Louisville, Ky. Cube-supporting panel. 2,663,419, Dec. 22.
Boling, Cecil, assignor to The Heat-X-Changer Co., Inc., Brewster, N. Y. Beverage cooler. 2,663,548, Dec. 22.
Bolling, Cecil, assignor to The Heat-X-Changer Co., Inc., Brewster, N. Y. Plate cooler. 2,663,551, Dec. 22.
Boone, Philip, Winchester, Mass. Ornamental object having polarizing and birefringent layers. 2,663,171, Dec. 22.
Booth, George M., Westfield, assignor to Wallace & Tiernan Co., Inc., Belleville, N. J., Dissolving apparatus. 2,663,553, Dec. 22.
Borel, Gaston, Port-de-Bouc, France. Slot cutting machine with adjustable stroke. 2,663,337, Dec. 22.
Borg, George W., Corporation, The, assignee: *See—*
Schwelgler, Fred R.
Borg-Warner Corporation, assignee: *See—*
Harrison, William V.
Jandasek, Vladimir J.
Zeidler, Reinhold C., and Barnes.
Born, Paul L., Wilmette, Ill., assignor to The Gas Machinery Company, Cleveland, Ohio. Oil gas process and apparatus. 2,663,625, Dec. 22.
Bossard, Le Roy T., Tulsa, Okla. Liquid or gas self-cleaning filter and strainer. 2,663,429, Dec. 22.
Bottalico, Angela M.: *See—*
Rosin, Seymour, and Bottalico.
Bourcart, Emile A., New York, N. Y. Compartmented container. 2,663,450, Dec. 22.
Bowser Engineering Company, assignee: *See—*
Bowser, Virgil C.
Bowser, Virgil C., Silver Spring, assignor to Bowser Engineering Company, Baltimore, Md. Semiautomatic parking garage. 2,663,436, Dec. 22.
Boyer, John L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor-electric device. 2,663,811, Dec. 22.
Boyer, John L., and A. P. Colaiaco, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor-electric device. 2,663,824, Dec. 22.
Bradley & Gilbert Company, The, assignee: *See—*
Bolding, Hubert V., and Gowens.
Brady, William E., Baldwin, Iowa. Safety brake mechanism. 2,663,596, Dec. 22.
Brancke, Carl A.: *See—*
Warrick, Thurlow J., and Brancke.
Brasco Manufacturing Company, assignee: *See—*
Hess, Carl R., and Richardson.
Brattain, Walter H., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor translator. 2,663,829, Dec. 22.
Bricker, Samuel R., Shelby, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Steam iron. 2,663,100, Dec. 22.
Brockel, William E.: *See—*
Evans, George W., Jr., and Brockel.
Brooks, Marguerite G., Darien, Conn. Ribbon loom. 2,663,214, Dec. 22.
Broschke, Heinrich, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Hardness tester. 2,663,185, Dec. 22.
Brotham, Abraham, Long Island City, N. Y. "Indirect" oxidation - splitting of acetylenic gamma glycols. 2,663,715, Dec. 22.
Brown Brothers & Co. Limited, assignee: *See—*
Waterston, James R. C.
Brown-Forman Distillers Corporation, assignee: *See—*
Scott, Henry L.
Brown, Frank E., Burbank, assignor to F. M. Turnbull, Los Angeles, Calif. Tank thermometer. 2,663,191, Dec. 22.
Brown, Frank E., Burbank, assignor to F. M. Turnbull, Los Angeles, Calif. Container for pharmaceuticals and the like. 2,663,461, Dec. 22.
Brown, James E., Orange, N. J. Educational device. 2,663,091, Dec. 22.
Brown, Paul W.: *See—*
Drobney, Joseph A., and Brown.
Brown, Russell H.: *See—*
Krause, Jack H., and Brown.
Brown, Tanner H., Monterey, Calif. Hinge seat mortising jig. 2,663,333, Dec. 22.
Brueckenbau Flender G. m. b. H., assignee: *See—*
Riedel, Erich.
Brümmerhoff, Walter, Remscheid-Lennep, assignor to Johann Vaillant Kommanditgesellschaft, Remscheid, Germany. Device for controlling the fuel supply of heating plants fired with gaseous or liquid fuels, particularly gas-fired liquid heaters. 2,663,501, Dec. 22.
Bruner Corporation, assignee: *See—*
Palmer, Vernon J., and Judell.
Buchner, Robert B.: *See—*
Schmitz, Mattheus J., and Buchner.
Buchner, Robert B., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Control device for use in automatic signaling systems. 2,663,760, Dec. 22.
Buckeye Tools Corporation, assignee: *See—*
Gummere, Harold O., and Linsker.
Budzyna, Walter J., East Douglas, and W. H. Banks, assignors to Draper Corporation, Hopedale, Mass. Knockoff and letback means for looms. 2,663,328, Dec. 22.
Buehler, Maurice E., San Diego, Calif. Mechanical time comparator mechanism. 2,663,863, Dec. 22.
Buffalo Electro-Chemical Company, Inc., assignee: *See—*
Greenspan, Frank P., and MacKellar.
Bullitt, Orville H., Jr., Newtown Square, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of pyridine alcohols from pyridine N-oxides. 2,663,711, Dec. 22.
Burdick, Hugh T., assignor to Illinois Tool Works, Chicago, Ill. Elastic locking insert secured by thread rolling. 2,663,344, Dec. 22.
Burkland, Carl J., assignor of one-half to E. Haubrich, Chicago, Ill. Electric fan. 2,663,494, Dec. 22.
Burtner, Robert R., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Hydroxy and methoxy cyclohexylbenzoylpropionic acids. 2,663,728, Dec. 22.
Busby, Arthur D., Harrow, England, assignor to The International Nickel Company, Inc., New York, N. Y. Addition agent and introducing magnesium into cast iron. 2,663,635, Dec. 22.
Butterworth, Edward, and E. J. Hinchcliffe, Farnworth, assignors to Begwaco Meters Limited, Farnworth, near Bolton, England. Dry gas meter. 2,663,189, Dec. 22.
Bynum, George T., Liverpool, assignor to Aircooled Motors, Inc., Syracuse, N. Y. Centrifugal oil filter construction. 2,663,424, Dec. 22.
Bywater, William, Limited, assignee: *See—*
Dinham, Alfred T.
C. U. R. A. Patents Limited, assignee: *See—*
Thring, Meredith W., and Karthauser.
Calola, Fred, Bronx, N. Y. Garage, air-raid shelter, or the like. 2,663,437, Dec. 22.
Cairnes, Charles W., Baltimore, assignor to Bendix Aviation Corporation, Towson, Md. Antibacklash gearing. 2,663,198, Dec. 22.
Caldwell, Oscar D., assignor of one-half to H. A. Kyle, Oklahoma City, Okla. Portable rig mount. 2,663,375, Dec. 22.
Calhoun, George M., Evanston, Ill., and J. E. Reese, St. Simons Island, Ga., assignors to Hercules Powder Company, Wilmington, Del. Oxidation of aromatic hydrocarbons. 2,663,740, Dec. 22.
Calhoun, George N., assignee: *See—*
Harrow, Eugene.
Cameron Iron Works, Inc., assignee: *See—*
Allen, Herbert.
Canadian Industries Limited, assignee: *See—*
Graham, George W.
Cannon, William D.: *See—*
Wells, Philip H., Steinmetz, and Cannon.
Cantor, Alexander, Chicago, Ill. Collapsible hat. 2,663,024, Dec. 22.
Cardell, Olof, Sollentuna, Sweden. Antiskid device. 2,663,345, Dec. 22.
Cardwell, Milton M., and O. C. Roddey, Baton Rouge, La., and C. W. Tyson, Summit, N. J., assignors to Standard Oil Development Company. Catalyst recovery. 2,663,676, Dec. 22.
Carlson, Byron: *See—*
Armstrong, Daniel A., Carlson, and Walz.
Carr, James A., Maplewood, F. V. Haskell, Gladstone, S. M. Sutton, Morristown, and O. L. Walter, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Swivel connector. 2,663,748, Dec. 22.
Carr, James P., Lansing, Mich., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Headlight tester. 2,663,216, Dec. 22.
Carrigan, Raymond J., assignor to Bigelow-Sanford Carpet Company, Inc., Thompsonville, Conn. Shuttle eye assembly. 2,663,327, Dec. 22.
Carter, Joseph E.: *See—*
Tschop, Harry E., Carter, and Goodrich.
Case, J. I., Company, assignee: *See—*
Rutter, Alvah E.
Casings, Inc., assignee: *See—*
Dordel, Walter R.
Catlin, Robert T., Stratford, C. S. Cummings, II, Easton, G. R. Eckstein, Fairfield, and P. Hickman, assignors to Remington Arms Company, Inc., Bridgeport, Conn. Ammunition. 2,663,259, Dec. 22.
Celanese Corporation of America, assignee: *See—*
Robertson, Nat C.
Roughsedge, Robert H., and Meder.
Cencer, Peter F., and F. Whiteman, Detroit, Mich., assignors to L. Gidion, special administratrix of the estate of F. M. Gidion, deceased. Sewing machine construction. 2,663,273, Dec. 22.
Cerino, Michael J., assignor to Firm Blade Razor Company, Inc., Portland, Oreg. Packet. 2,663,412, Dec. 22.
Challen, Henry D., assignor to Taylor & Challen Limited, Birmingham, England. Clutch for power presses. 2,663,394, Dec. 22.

Chamberlain, Richard K., assignor to Wingfoot Corporation, Akron, Ohio. Self-energizing single-disk brake. 2,663,384, Dec. 22.

Chambon, Louis J., assignor to Society Machines Chambon, Paris, France. Variable speed drive means for printing of short texts in rotary printing machines. 2,663,256, Dec. 22.

Champion Spark Plug Company, assignee: *See*— Schurecht, Harry G.

Chase, Herbert S., Flushing, N. Y. Magic slate. 2,663,095, Dec. 22.

Chicago Metal Hose Corporation, assignee: *See*— Fentress, David W.

Chiksan Company, assignee: *See*— Lagrange, Victor E., and Parmesan.

Childress, John B.: *See*— Kingston, Benson M., and Childress.

Christiansen, Robert G.: *See*— Johnson, William S., and Christiansen.

Ciba Limited, assignee: *See*— Sulzer, Georg.

Clark, Bryce L.: *See*— Miller, Carl S., and Clark.

Clarke, Frank H., Pearl River, assignor to American Cyanamid Company, New York, N. Y. Filter plate screen clip. 2,663,431, Dec. 22.

Clarostat Mfg. Co., Inc., assignee: *See*— Mucher, George J.

Clavier, André G., Nutley, N. J., and D. L. Thomas, Lee, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Phase changer. 2,663,847, Dec. 22.

Cleveland Universal Jig Company, The, assignee: *See*— Verderber, Joseph.

Closson, Rex D.: *See*— Ligett, Waldo B., Wolf, and Closson.

Cloud, Raymond T., assignor to North American Geophysical Co., Houston, Tex. Pendulum and acceleration compensation system. 2,663,088, Dec. 22.

Coats, Hal B., Edgewood, assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa. Desolventizer vapor recovery system. 2,663,089, Dec. 22.

Cochrane, Robert J., assignor of fifty per cent to T. E. Wolfrom, Redlands, Calif. Float switch. 2,663,772, Dec. 22.

Coderre, Aylmer L., St. Anne, Ill. Liquid measuring device. 2,663,084, Dec. 22.

Coffman, Harold H.: *See*— Wiles, Everett R., Meyers, and Coffman.

Colalaco, August P.: *See*— Boyer, John L., and Colalaco.

Colborne Manufacturing Co., assignee: *See*— Jahn, Marion C., Shapcott, and Smith.

Collett, J. Howard, assignee: *See*— Hill, Elvin.

Collier, Arthur: *See*— Smole, Jack F., and Collier.

Collins Radio Company, assignee: *See*— Moseley, Francis L.

Collins, Samuel C., Watertown, Mass., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Gas separation apparatus and method. 2,663,167, Dec. 22.

Collins, William W., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Draw press feeding device. 2,663,275, Dec. 22.

Collman, George B., Seattle, Wash. Combination runner and base. 2,663,181, Dec. 22.

Columbia Malting Company, The, assignee: *See*— Melchior, Wilhelm A., and Graff.

Columbia-Southern Chemical Corporation, assignee: *See*— Platt, William.

Columbus McKinnon Chain Corporation, assignee: *See*— Devonshire, William H.
Manney, Charles J., and Devonshire.

Combustion Engineering, Inc., assignee: *See*— Armacost, Wilbur H.

Commercial Controls Corporation, assignee: *See*— Gottschau, Christian M.

Compagnie Generale du Duralumin et du Cuivre, assignee: *See*— Tschudnowsky, Jean R.

Compton, Ell D., Greenwood, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Producing synthetic tannins by dehydrating and sulfonating a novolak resin in a vacuum. 2,663,698, Dec. 22.

Conroy, Edward A., Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. 1-substituted-4-aminopiperazines and preparing the same. 2,663,706, Dec. 22.

Conroy, Edward A., Plainfield, and R. P. Parker, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y. Amino piperazines and preparing the same. 2,663,707, Dec. 22.

Container Corporation of America, assignee: *See*— Foster, Thomas W.
Johnson, Richard H.
Kincaid, Elbert B.

Continenza, Joseph, Stuart, Fla. Float valve for water dispensers. 2,663,312, Dec. 22.

Conway, Joseph D., Cleveland Heights, Ohio. Portable brushing and nap-raising attachment for carpet cleaning machines. 2,663,045, Dec. 22.

Cook Electric Company, assignee: *See*— McDonald, Donald C., Mathews, and Boe.

Coover, Harry W., Jr., J. B. Dickey, and N. H. Shearer, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Polymers of 3-methylene phthalide and preparation. 2,663,697, Dec. 22.

Copping, Bruce G., Cuyahoga Falls, Ohio, assignor to Don Manufacturing Company, Chicago, Ill. Temperature regulating system. 2,663,498, Dec. 22.

Corcoran Implement Company, Inc., assignee: *See*— Worthington, Carl R.

Cornelius, Nelson F., Anoka, Minn. Pressure regulating valve. 2,663,122, Dec. 22.

Corso, Joseph V., Brooklyn, and R. C. Ulmer, Bronxville, assignors to E. F. Drew & Co., Inc., New York, N. Y. Mixed indicator composition. 2,663,692, Dec. 22.

Cox, Irvin W., West Allis, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric snap switch. 2,663,770, Dec. 22.

Cox, Irvin W., West Allis, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit breaker. 2,663,777, Dec. 22.

Craig, Francis A., Snyder, assignor to The Wittemann Company, Incorporated, Buffalo, N. Y. Method and apparatus for handling fermentation gas. 2,663,154, Dec. 22.

Craig, Paul N., Pennsauken Township, Camden County, N. J., and F. P. Nabenhaner, assignors to Smith, Kline & French Laboratories, Philadelphia, Pa. 1-alkyl 6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline compounds 2,663,709, Dec. 22.

Croman, Clifford B., West Newton, Mass. Magazine cigarette lighter for automobiles. 2,663,606, Dec. 22

Crooker, David E., assignee: *See*— Felker, Raymond L.

Crowley, Henry L., South Orange, N. J., M. E. Graham, Parma, and E. A. Beidler, Columbus, assignors to Republic Steel Corporation, Cleveland, Ohio. Reducing ferrous chloride in the gaseous phase with hydrogen to produce metallic iron. 2,663,633, Dec. 22.

Crown Cork & Seal Company, Inc., assignee: *See*— Day, Carl L., and Freeze.
Erhardt, John E., Jr.

Cummings, Charles S., II: *See*— Catlin, Robert T., Cummings, Eckstein, and Hickman.

Cundiff, Olaf C., Detroit, Mich. Electric burglar alarm system. 2,663,864, Dec. 22.

Curley, Todd M., Mahanoy City, Pa. Training device for crippled children. 2,663,376, Dec. 22.

Curtis, Arvel C., Odessa, Tex., assignor to Pipelife, Inc. End closure for pup joints used in coating the interior of pipe lines. 2,663,326, Dec. 22.

Curtis, Russell H., assignor to Hawley Products Company, St. Charles, Ill. Filter. 2,663,430, Dec. 22.

Curtis, Thomas E.: *See*— Matthews, William D., and Curtis.

Cushman, Cecil A., Redlands, Calif. Pneumatic injury pad. 2,663,020, Dec. 22.

Cutler-Hammer, Inc., assignee: *See*— Cox, Irvin W.

Dahlberg, Bengt R., Bredbyn, assignor to J. R. Andersson & Co. A B, Sundbyberg, Sweden. Invalid lift and transfer device. 2,663,030, Dec. 22.

Dailey, Manvel C.: *See*— Huntzicker, Harry N., Dailey, and Minnis.

Daimler-Benz Aktiengesellschaft, assignee: *See*— Links, Heinrich K.

Dairymat Corporation, assignee: *See*— Gilberty, Paul.

Dameron, John H., Clinton, Tenn. Rotary pump and motor hydraulic transmission. 2,663,147, Dec. 22.

Daniels, Richard W., Jr., and J. J. Maciejowski, Wenham, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Compacting machine for heavy leather. 2,663,179, Dec. 22.

Darlington, Sidney, Passaic Township, Morris County, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor signal translating device. 2,663,806, Dec. 22.

Dascomb, Clair E., assignor to The Welch Grape Juice Company, Inc., Westfield, N. Y. Jar unscrambler and inverter. 2,663,401, Dec. 22.

Daul, George C., J. D. Reid, and R. M. Reinhardt, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Spinnable carboxymethylated cotton fibers and their production. 2,663,615, Dec. 22.

Dautrebande, Lucien, Washington, D. C., assignor to Aerosol Corporation of America, New York, N. Y. Separation of gas suspended dust particles. 2,663,382, Dec. 22.

Davidson, John T., assignor to The Standard Register Company, Dayton, Ohio. Strip feeding device. 2,663,196, Dec. 22.

Davidson, Noland D., Ellisville, and E. J. Henderson, Laurel, Miss.; said Henderson assignor of one-fourth to F. Walters, Laurel, Miss. Lubricated wing nut. 2,663,213, Dec. 22.

Davies, Herbert L., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,663,604, Dec. 22.

Davis, Floyd M., Los Angeles, Calif. Tent. 2,663,306, Dec. 22.

Davis, H. F., Tractor Company, assignee: *See*— Davis, Ray B.

Davis, Ray B., Newton Center, assignor to H. F. Davis Tractor Company, Boston, Mass. Mower attachment for tractors. 2,663,133, Dec. 22.

Dawbarn, Waring L., Winchester, assignor to Arthur D. Little, Inc., Cambridge, Mass. Washer for blast furnace gases. 2,663,557, Dec. 22.

Day, Carl L., and J. E. Freeze, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Filling head having overflow valve check means. 2,663,483, Dec. 22.

De Anthony, Robert P., Dayton, Ohio. Battery indicator. 2,663,862, Dec. 22.

De Back, William: *See*— Krueger, Frank W., and de Back.

De Back, William, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Container filling machine. 2,663,480, Dec. 22.

De Boisblanc, Deslonde R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Noise suppression device 2,663,765, Dec. 22.

De Lancey, Ralph W., Yalesville, assignor to The Miller Company, Meriden, Conn. Firing head assembly for fuel burners. 2,663,365, Dec. 22.

De Langen, Lambertus H., Delft, Netherlands. Apparatus for imparting a vibrating movement to objects or matters. 2,663,554, Dec. 22.

Delaune, Elaine T.: *See*— Wilson, Samuel W., and Delaune.

De Laval Separator Company, The, assignee: *See*— Strezynski, George J.
Strezynski, George J., and Lawatsch.

De Laval Steam Turbine Company, assignee: *See*— Nordström, Vilhelm F. A., and Morosoff.

Dennick, Kenneth R., New York, N. Y. Storage bin unloading apparatus. 2,663,594, Dec. 22.

Denton, William I.: *See*— Lukaslewicz, Sigmund J., and Denton.

De Pinto, Sergio, Staten Island, assignor of one-tenth to S. and L. Mezzacappa, Staten Island, and one-tenth to W. Auerbach, New York, N. Y. Cigarette holder 2,663,300, Dec. 22.

De Pree, David O.: *See*— Hill, Eugene F., and De Pree.

Derby Sealers, Incorporated, assignee: *See*— Erhardt, Oscar P.

Détrez, René, Nogent-sur-marne, France. Fluid operated filling valve mechanism utilizing varying fluid pressures 2,663,479, Dec 22

Detroit Automotive Products Corporation, assignee: *See*— Romick, William L.

Detroit Controls Corporation, assignee: *See*— Dillman, Earnest J., and Noakes.

Detroit Steel Products Company, assignee: *See*— Anderson, Werner R.
Rockhoff, Bert E., and Mayer.

Dettmer, Edward V., Bay City, assignor to The Dow Chemical Company, Midland, Mich. Heat and pressure element for welding thermoplastic films. 2,663,350, Dec 22.

De Val, Eugene J., Pitcairn, and O. Ackermann, Irwin, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Lightning arrester. 2,663,817, Dec 22

Devonshire, William H.: *See*— Manney, Charles J., and Devonshire.

Devonshire, William H., Williamsville, assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Traction chain. 2,663,346, Dec. 22.

Diamond Alkali Company, assignee: *See*— Perloff, John W., and Jacobson.

Diamond, Milton, Trenton, N. J. Device for anchoring springs. 2,663,361, Dec. 22

Dickey, Joseph B.: *See*— Coover, Harry W., Jr., Dickey, and Shearer.

Diemer, Gesinus, and K. Rodenhuis, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Ultrahigh-frequency electric discharge tube. 2,663,822, Dec. 22.

Dieter, Louis V., assignee: *See*— Hall, Charles G.

Dillman, Earnest J., and T. E. Noakes, assignors to Detroit Controls Corporation, Detroit, Mich. Refrigeration expansion valve and adjustment mechanism therefor. 2,663,502, Dec 22.

Dilworth, John P., Fishkill, assignor to The Texas Company, New York, N. Y. Grease containing diphenyl P-phenylene diamine and a phosphorus acid ester and making said grease. 2,663,691, Dec 22

Dinerstein, Robert A., assignor to Standard Oil Company, Chicago, Ill. Purification of straight-chain monohydric alcohols. 2,663,703, Dec 22.

Dinham, Alfred T., Crabbs Cross, Redditch, assignor to Needle Industries Limited, Birmingham, and William Bywater Limited, Leeds, England. Barbed felting needle for use in needle looms or interlacing machines. 2,663,065, Dec 22.

Diversey Corporation, The, assignee: *See*— Hodgens, John G., Jr.

Dixon, James V.: *See*— Dixon, Victor V. and J. V.

Dixon, Victor V. and J. V., Lebanon, Oreg. Animated decoy and actuating means therefor. 2,663,108, Dec. 22.

Doan, Richard L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Apparatus for hydrocarbon determination. 2,663,379, Dec. 22.

Dolch, William C., Willoughby, Ohio, assignor, by mesne assignments, to The New York Air Brake Company, New York, N. Y. Hydraulic system and multipurpose control valve. 2,663,150, Dec. 22.

Don Manufacturing Company, assignee: *See*— Copping, Bruce G.

Donn, Heinz, Pforzheim, Germany, assignor to International Standard Electric Corporation, New York, N. Y. Current supply circuit for television receivers. 2,663,805, Dec. 22.

Donnell, Robert, Midland, and J. R. Jennings, Odessa, Tex. Fishing tool for wells. 2,663,370, Dec. 22.

Donofrio, Alfonso M., Toledo, Ohio, assignor to American Cyanamid Company, New York, N. Y. Machine for fabricating capsules from elastic films. 2,663,129, Dec 22.

Donofrio, Alfonso M., Toledo, Ohio, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y. Apparatus for producing symmetrical generally ellipsoidal capsules. 2,663,130, Dec. 22.

Doolen, Orville K.: *See*— Wickerham, Warren E., and Doolen.

Dordel, Walter R., West Hempstead, assignor to Casings, Inc., New York, N. Y. Metal casing for dry wall construction. 2,663,390, Dec. 22.

Dormeyer Corporation, assignee: *See*— Schwanecke, Fred C.

Dorscheid, George P., assignor to Frontier Industries, Inc., Buffalo, N. Y. Fluid pressure control valve. 2,663,316, Dec. 22.

Douglas, George R.: *See*— Holliday, Ivar M., Douglas, and Hanna.

Douglass, Robert S., Port Washington, N. Y. Optical device for golf instruction. 2,663,021, Dec. 22.

Douglass, Walter, and A. C. Ellis, Middlesex, England Flexible sleeve iris valve. 2,663,467, Dec. 22.

Dow Chemical Company, The, assignee: *See*— Dettmer, Edward V.
Frevel, Ludo K., and Hedelund.
Roth, Harold H., and Smith.
White, Halbert C., and Wysong.

Dowless, William B., Abbottsburg, N. C. Oil burner for tobacco drying and curing means 2,663,364, Dec. 22.

Dowty Equipment Limited, assignee: *See*— Snell, Maurice S.

Doyle, Sebastian B., Miami, Fla. Speed control mechanism for automobiles 2,663,313, Dec. 22.

Draper Corporation, assignee: *See*— Budzyna, Walter J. and Banks

Drew, E. F., & Co., Inc., assignee: *See*— Corso, Joseph V., and Ulmer

Driffill, Hubert J.: *See*— Lentz, Marshall E., Anderson, and Driffill.

Drillick, Jacob H., Brooklyn, N. Y., assignor to The Photocopygraph Corporation, Dover, Del. Composing apparatus. 2,663,232, Dec. 22.

Drobney, Joseph A., Duquesne, and P. W. Brown, Beaver Falls, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker 2,663,773, Dec. 22.

Dromi, William M., Jr., Linden, N. J., assignor to Standard Oil Development Company Extractive distillation of alcohols obtained from olefins 2,663,679, Dec. 22.

Dubberley, Charles A., Fort Wayne, Ind., assignor to General Electric Company Piston assembly for reciprocating compressors. 2,663,601, Dec 22.

Dudis, Charles G., assignor to The National Cash Register Company, Dayton, Ohio. Printing wheel device. 2,663,257, Dec 22.

Dunér, Edwin: *See*— Malmvik, Elof, and Dunér.

Du Pont, E. I., de Nemours and Company, assignee: *See*— Bullitt, Orville H., Jr
Gibson Joseph W., Jr
Haag, Ivan L.
Iler, Ralph K
McCormack, William B
Ralling, Wilford E.
Searle, Norman E., and Todd.

Durant, Lyndon A., assignor to General Patent Corporation, Chicago, Ill. Projecting device for pin ball amusement apparatus. 2,663,568, Dec 22.

Dvornikoff, Michael N., St Louis, and E. J. Young, Valley Park, assignors to Monsanto Chemical Company, St. Louis, Mo. Preparation of O,O-dialkyl O-para nitrophenyl thiophosphate esters. 2,663,721, Dec 22.

E. C. H. Will Linlermaschinenfabrik, assignee: *See*— Moffert, Emil K. E.

Earle, Norman E., Groveland, and E. E. Leidich, Merrimac, Mass., assignors to Western Electric Company, Incorporated, New York, N. Y. Contact fixture. 2,663,844, Dec 22.

Eastman Kodak Company, assignee: *See*— Coover, Harry W., Jr., Dickey, and Shearer
Fuerst, Carl C
Hagemeyer, Hugh J., Jr.
Hodges, Howard T.
Hull David C., and Saunders.
Tuttle, Clifton M., and O'Neil.
Tuttle, Fordyce E., and Newcomb
Weissberger, Arnold.

Easy Power, Incorporated, assignee: *See*— Wagner, Arthur W.

Eaton, Arthur C., Mount Pleasant, Mich. Air cooled air compressor. 2,663,492, Dec. 22.
Eaton Laboratories, Inc., assignee: *See*— Hayes, Kenyon J.
Eaton Manufacturing Company, assignee: *See*— Horan, Ralph P. Schultz, Arthur D., and Schwendler.
Ebel, Friedrich, Mannheim-Feudenheim, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am (Rhine), Rheinland-Pfalz, Bundesrepublik, Germany. 4-hydroxy-7,8-phthaloyl-cinnolines and preparing same. 2,663,708, Dec. 22.
Eckert, George W., Glenham, assignor to The Texas Company, New York, N. Y. High-temperature sodium myristate grease containing N,N'-diphenyl para-phenylene diamine. 2,663,690, Dec. 22.
Eckstein, George R.: *See* Catlin, Robert T., Cummings, Eckstein, and Hickman.
Ederer, Lothar A., Chicago, assignor to Keal Products, Inc., Evanston, Ill. Fish trapping apparatus. 2,663,117, Dec. 22.
Ehmann, Leslie G., assignor to Hyster Company, Portland, Oreg. Side grip drum handling means for lift trucks. 2,663,442, Dec. 22.
Elenbaas, Willem, D. Kolkman, and A. A. Hurx, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, as trustee. Starting strip connection for discharge lamps. 2,663,823, Dec. 22.
Eliot, William M., Houston, Tex. Car parking system and structure. 2,663,435, Dec. 22.
Elliott, W. C., executor: *See*— Elliott, Wordsworth M.
Elliott, Wordsworth M., deceased, Durango, Colo.; W. C. Elliott, executor of said W. M. Elliott. Foot massager 2,663,293, Dec. 22.
Ellis, Alexander C.: *See* Douglass, Walter, and Ellis.
Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Ophthalmic instrument. 2,663,219, Dec. 22.
Ellison, John A. T., Seattle, Wash. Flexible toll barrier 2,663,103, Dec. 22.
El Shayeb, Ahmed M., Cairo, Egypt. Mixing valve faucet 2,663,317, Dec. 22.
Englander Company, Inc., The, assignee: *See*— Ory, Edward W.
English, Ray H.: *See* Ornitz, Martin N., and English.
Epstein, Hyman, assignor of one-half to M. Levine, Brooklyn, N. Y. Pancake making machine. 2,663,249, Dec. 22.
Erhardt, John E., Jr., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., Reel mechanism. 2,663,512, Dec. 22.
Erhardt, Oscar P., assignor to Derby Sealers, Incorporated, Derby, Conn. Tape dispensing mechanism with blade guard. 2,663,369, Dec. 22.
Erickson, Anton F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Check valve for master cylinders. 2,663,540, Dec. 22.
Erickson, Lowell H.: *See*— Merrill, Marcellus S., and Erickson.
Erwood, John: *See* Sauerman, Ernst C., Hopkins, and Joseph and John Erwood.
Erwood, Joseph: *See* Sauerman, Ernst C., Hopkins, and Joseph and John Erwood.
Espersen, George A., Dobbs Ferry, assignor to Phillips Laboratories, Inc., Irvington-on-Hudson, N. Y. Making incandescent cathodes. 2,663,069, Dec. 22.
Etablissements Merlin & Gerin, Societe Anonyme, assignee: *See*— Viboud, Albert, and Gras.
Ethyl Corporation, assignee: *See*— Hill, Eugene F. Hill, Eugene F., and De Free. Ligett, Waldo B., Wolf, and Closson.
Etra, Bernard and I., Brooklyn, N. Y. Corrugated carton 2,663,490, Dec. 22.
Etra, Irving: *See*— Etra, Bernard and I.
Evans, George W., Jr., Teaneck, and W. E. Brockel, Verona, N. J., assignors to The Lummus Company, New York, N. Y. Condenser deaerator. 2,663,547, Dec. 22.
Ewell, Robert B., Berkeley, assignor to Shell Development Company, Emeryville, Calif. Conversion of hydrocarbon oils. 2,663,675, Dec. 22.
Fabula, Andrew: *See*— Margles, Samuel G., and Fabula.
Fairbairn, Joseph B., Shreveport, La. Window ventilator. 2,663,245, Dec. 22.
Fairbanks, Morse & Co., assignee: *See*— Mackay, Thomas R., and Angel.
Farrand Optical Co., Inc., assignee: *See*— Rosin, Seymour, and Bottalico.
Farrington, Robert K., Shaker Heights, T. B. Farrington, Cleveland Heights, and R. F. Kurzenberger, assignors to The Thompson Electric Company, Cleveland, Ohio. Gravity suspension hanger. 2,663,536, Dec. 22.
Farrington, Thayer B.: *See*— Farrington, Robert K. and T. B., and Kurzenberger.
Farris, Clayton, East Orange, assignor to The Trucktor Corporation, Westfield, N. J. Tire inflator. 2,663,348, Dec. 22.
Favara, Louis, and L. C. Green, Buffalo, N. Y. Detecting apparatus. 2,663,867, Dec. 22.
Federal Telecommunication Laboratories, Inc., assignee: *See*— Warner, Arthur J., and Gobat.
Feigenholtz, Harold L., assignee: *See*— Ramsden, Emil L.
Felker, Lloyd L., assignee: *See*— Felker, Raymond L.
Felker, Raymond L., assignor of fifty per cent to L. L. Felker, Marshfield, Wis., and fifty per cent to D. E. Crooker, Ontonogan, Mich. Device for demonstrating the action of snow and ice tires and making the same. 2,663,094, Dec. 22.
Fenley, Jack, San Bernardino, Calif. Automatic brake release. 2,663,386, Dec. 22.
Fentress, David W., Barrington, assignor to Chicago Metal Hose Corporation, Maywood, Ill. Flexible tubing structure and manufacture. 2,663,324, Dec. 22.
Fetter, William G., A. F. Wood, and E. F. Holt, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Wrinkle type replaceable cap for welding electrodes. 2,663,783, Dec. 22.
Fielding, George T., Stamford, Conn. Loose-leaf book construction. 2,663,577, Dec. 22.
Filar, Leo J., and M. A. Taves, assignors to Hercules Powder Company, Wilmington, Del. Production of phenol and ketones by decomposition of hydroperoxides. 2,663,735, Dec. 22.
Filliung, Jacques J., assignor to Sloan Valve Company, Chicago, Ill. Vacuum breaker. 2,663,309, Dec. 22.
Filmsort Inc., assignee: *See* McArthur, Donald W.
Fink, Jean, Delavan, assignor to Gibbs Manufacturing and Research Corporation, Janesville, Wis. Pallet lever construction. 2,663,139, Dec. 22.
Firestone Tire & Rubber Company, The, assignee: *See*— Stevens, Horace D.
Firm Blade Razor Company, Inc., assignee: *See* Cerino, Michael J.
Fisher, Martin H., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Magnetic amplifier creeping speed control. 2,663,833, Dec. 22.
Flaxman, Lillian R., Hartford, Conn. Hair drying hood construction. 2,663,090, Dec. 22.
Fletcher, Mary H.: *See* Slavin, Morris, Fletcher, and May.
Food Machinery and Chemical Corporation, assignee: *See* Carr, James P. De Back, William. Krueger, Frank W., and de Back.
Fortune, Charles T.: *See*— Fortune, William J. and C. T.
Fortune, William J., Elkhart, and C. T. Fortune, Grimes, Iowa. Can opener. 2,663,077, Dec. 22.
Foster, Thomas W., assignor to Container Corporation of America, Chicago, Ill. Can and tumbler package 2,663,413, Dec. 22.
Francis, Alfred W., and G. C. Johnson, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Solvent extraction. 2,663,670, Dec. 22.
Frandsen, Leon C.: *See* Reynolds, Warren S., Turner, and Frandsen.
Fray, Robert R., Mission, Kans. Combination tool case and sawhorse. 2,663,338, Dec. 22.
Freeze, James E.: *See*— Day, Carl L., and Freeze.
French Oil Mill Machinery Company, The, assignee: *See* Hutchins, Ralph P., and Simon.
Frevel, Ludo K., and J. W. Hedelund, assignors to The Dow Chemical Company, Midland, Mich. Production of methylal. 2,663,742, Dec. 22.
Frey, Erik, and R. E. Hattis, Chicago, Ill. Proportional spacing apparatus. 2,663,399, Dec. 22.
Fried, Armin, and J. W. Fried, Burbank, Calif. Deburring, chamfering and countersinking tool. 2,663,203, Dec. 22.
Fried, Joseph W.: *See* Fried, Armin and J. W.
Friedley, Robert C., Lorain, Ohio, assignor to Gregory Industries, Inc. Composite stud. 2,663,270, Dec. 22.
Frink, Carl H., La Fargeville, and G. W. Kenyon, assignors to Frink Sno-Plows, Inc., Clayton, N. Y. Attachment for V type snowplows. 2,663,098, Dec. 22.
Frink Sno-Plows, Inc., assignee: *See*— Frink, Carl H., and Kenyon.
Fritter-Chef Corporation, assignee: *See* Wright, George J. and R. J.
Frontier Industries, Inc., assignee: *See*— Horscheid, George P.
Frydlender, Sophia, assignor to Lancome S. A., Paris, France. Lipstick holder. 2,663,414, Dec. 22.
Fuerst, Carl C., assignor to Eastman Kodak Company, Rochester, N. Y. High-speed shutter. 2,663,235, Dec. 22.
G. W. B. Electric Furnaces Limited, assignee: *See*— Tatem, John A.
Gage, Arthur G., Bell, Calif. Retrievable well pump. 2,663,261, Dec. 22.

Gagne, Ovila J., Manchester, N. H. Portable hose shut-off device. 2,663,537, Dec. 22.
Gall, Charles H., assignor to Spring Machinery Company, Los Angeles, Calif. Machine for making bed springs 2,663,038, Dec. 22.
Gailliot, Paul, Paris, and J. Robert, Maisons Laffitte, France, assignors, by mesne assignments, to Parke, Davis & Company, Detroit, Mich. Diasterreoisomeric propane derivatives and their manufacture. 2,663,727, Dec. 22.
Galloway, William M., Taft, Calif. Cotton gin trash disposal unit. 2,663,381, Dec. 22.
Galouska, David A.: *See*— Lincoln, Clovis W., Kearful, and Galouska.
Gangnin, Karl O., and N. H. Haddock, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Producing integral color correction masks. 2,663,637, Dec. 22.
Gangnin, Karl O., N. H. Haddock, and E. Macdonald, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Color correction of multicolor film by integral styryl dye masking images. 2,663,638, Dec. 22.
Gard, George E., assignor to Armstrong Cork Company, Lancaster, Pa. Mold structure for dielectric heating 2,663,790, Dec. 22.
Gardes, Alfred W., Detroit, Mich., assignor to Homan Crane Corporation, Lebanon, Ind. Flange connecting means. 2,663,586, Dec. 22.
Gardner, James D., Houston, Tex., assignor to Baash Ross Tool Company, Los Angeles, Calif. Caliper for threaded joints. 2,663,086, Dec. 22.
Gardner, James M.: *See* Piper, Frank R., and Gardner.
Garrett, Henry L., and C. M. Peters, Longview, assignors to Garrett Oil Tools, Inc., Houston, Tex. Well flowing device. 2,663,265, Dec. 22.
Garrett Oil Tools, Inc., assignee: *See* Garrett, Henry L., and Peters.
Gas Machinery Company, The, assignee: *See* Born, Paul L.
Gauthier, Alfred, G. m. b. H., assignee: *See* Rentschler, Karl.
Gautier, C. T., assignee: *See* Shinn, Guy C.
Gaylord Container Corporation, assignee: *See* Gibbons, Clyde F.
Gayton, O. F., assignee: *See* Jaunsch, Emil.
Geen, Cory P., assignor to Industrial Devices, Incorporated, Philadelphia, Pa. Spindle mount. 2,663,138, Dec. 22.
Geen, Cory P., assignor to Industrial Devices, Incorporated, Philadelphia, Pa. Hydraulic motor. 2,663,541 Dec. 22.
Geisler, William, Tenafly, N. J., assignor to Wilbro Corporation, New York, N. Y. Bottle tray. 2,663,486, Dec. 22.
General Aniline & Film Corporation, assignee: *See* Tulagin, Vsevolod.
General Electric Company, assignee: *See* Abnell, Karl J. Dubberley, Charles A. Illian, Douglas F., and Terp. Kurtz, Lowell M. **Lakso, Lauri A.** Lichtenicls, Ira W. Pixley, John M. Rich, Theodore A. Schumacher, Frank A. Spiegelhalter, William G. Tucker, John R. Warrick, Thurlow J., and Brancke. Young, James F.
General Mills, Inc., assignee: *See*— Graham, Maurice H.
General Motors Corporation, assignee: *See* Erickson, Anton F. Lentz, Marshall E., Anderson, and Driffill. Lincoln, Clovis W., Kearful, and Galonska. Schutt, Arthur J. Westcott, Frank.
General Patent Corporation, assignee: *See*— Durant, Lyndon A.
General Teleradio, Inc., assignee: *See*— Lubcke, Harry R.
Gerard, Paul H.: *See*— MacInnes, John N., and Gerard.
Gevaert Photo-Producten N. V., assignee: *See*— Rott, André.
Gibbons, Clyde F., Atlanta, Ga., assignor to Gaylord Container Corporation, St. Louis, Mo. Corner locking device for containers. 2,663,488, Dec. 22.
Gibbs Manufacturing and Research Corporation, assignee: *See* Fink, Jean.
Gibson, Joseph W., Jr., Penns Grove, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Coloring hydrophobic fiber. 2,663,612, Dec. 22.
Gibson, Joseph W., Jr., Penns Grove, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Coloring nylon fiber. 2,663,613, Dec. 22.
Gidlon, Frank M., assignee: *See*— Cencer, Peter F., and Whiteman.
Gidlon, Leonore, special administratrix: *See*— Cencer, Peter F., and Whiteman.
Giese, Alfred G., Jr., assignor to Handcraft Company, Inc., Princeton, Wis. Article of footwear embodying flock-coated outsole. 2,663,097, Dec. 22.
Gilbert & Barker Manufacturing Company, assignee: *See*— Grisé, Alfred L., and Neef.
Gilbert-Barker Manufacturing Company, assignee: *See*— Heckman, George J., and Paterwic.
Gilbert, Charles L., assignor to D. Black, Spokane, Wash. Eraser cleaning machine. 2,663,044, Dec. 22.
Gilbert, Roswell W., Montclair, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Integrating direct current wattmeter. 2,663,846, Dec. 22.
Gilbert, William A.: *See*— Herrmann, John F., and Gilbert.
Gilberty, Paul, Roslyn Heights, assignor to Dairymat Corporation, Long Island City, N. Y. Automatic ice cream filler. 2,663,482, Dec. 22.
Gilfillan Bros., Inc., assignee: *See*— Tasker, Raymond B.
Girschowitch, Charles I., New York, N. Y. Window sill 2,663,389, Dec. 22.
Giuseffi, Vincent, South Orange, N. J. Folding bed mechanism. 2,663,032, Dec. 22.
Glidden Company, The, assignee: *See*— Millar, Ronald L.
Globe Industries, Inc., The, assignee: *See*— Stein, Robert A.
Glover, Walter, La Grange, Ill., assignor to American Locomotive Company, New York, N. Y. Heat exchanger 2,663,170, Dec. 22.
Gobat, André R.: *See*— Warner, Arthur J. and Gobat.
Goddard, Charles T., Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Inc., New York, N. Y. Electrode support and spacing structure for electron discharge devices. 2,663,819, Dec. 22.
Godillon, Raymond, Joinville-le-Pont, France, assignor to L'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude. Clutch device. 2,663,200, Dec. 22.
Goguen, Albert C., West Newton, Mass. Device for cleaning Venetian blinds. 2,663,046, Dec. 22.
Gohm, William H., Sr., Saginaw, Mich. Portable router type mortising device. 2,663,335, Dec. 22.
Goldberg, Max and R. J., New York, N. Y. Compact filling machine operated by foldable linkage. 2,663,476, Dec. 22.
Goldberg, Robert J.: *See*— Goldberg, Max and R. J.
Goodrich, B. F., Company, The, assignee: *See*— Ardis, Alan E. Reuter, Louis F., and Smith. Semon, Waldo L.
Goodrich, Charles B.: *See*— Tschop, Harry E., Carter, and Goodrich.
Goodwin, A. D., & Son, assignee: *See*— Goodwin, Alfred D.
Goodwin, Alfred D., assignor to A. D. Goodwin & Son, Manteca, Calif. Nut huller and sheller. 2,663,340, Dec. 22.
Gottschau, Christian M., assignor to Commercial Controls Corporation, Rochester, N. Y. Stamp roll feeding mechanism. 2,663,565, Dec. 22.
Gouirand, Rene, New York, N. Y. Pneumatic suspension for vehicles. 2,663,569, Dec. 22.
Goulding, Albert, Jr., Cuyahoga Falls, and M. Jukich, assignors to Wingfoot Corporation, Akron, Ohio. Continuous treating apparatus. 2,663,052, Dec. 22.
Gowens, Ernest G.: *See*— Bolding, Hubert V., and Gowens.
Grable, Donovan B., Long Beach, Calif. Method and apparatus for well drilling and testing. 2,663,545, Dec. 22.
Graf, Fritz, Ludwigshafen (Rhine), and T. Toepel, Ludwigshafen (Rhine-Oggersheim), assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Rheinland-Pfalz, Bundesrepublik, Germany. Securing mechanically stressed constructional members to wooden supports. 2,663,662, Dec. 22.
Graff, Alan R.: *See* Melchior, Wilhelm A., and Graff.
Graham & Barker, assignee: *See* Graham, George C.
Graham, George C., assignor to Graham & Barker, Ridgewood, N. J. Washing machine. 2,663,176, Dec. 22.
Graham, George W., Beloeil, Quebec, assignor to Canadian Industries Limited, Montreal, Quebec, Canada. Apparatus for measuring electrostatic charges. 2,663,842, Dec. 22.
Graham, Marion E.: *See*— Crowley, Henry L., Graham, and Beidler.
Graham, Maurice H., Minneapolis, Minn., assignor to General Mills, Inc. Waffle iron. 2,663,785, Dec. 22.
Gramelspacher, Clarence V., Jasper, Ind. Making plywood from wood waste and product resulting therefrom 2,663,661, Dec. 22.
Grandjot, Walter, Bremen, Germany. Audiometric apparatus. 2,663,377, Dec. 22.

Grant, Harry C., Jr., Ridgewood, assignor to Specialties Development Corporation, Belleville, N. J. Fluid medium operated time delay apparatus. 2,663,153, Dec. 22.

Gras, André: *See*—
Vibond, Albert, and Gras.

Gray Manufacturing Company, The, assignee: *See*—
Helm, Charles W., Jr.

Graybeal, Bruce A., Conowingo, Md., assignor to Johns-Manville Corporation, New York, N. Y. Method and apparatus for fiberizing mineral materials. 2,663,051, Dec. 22.

Green, Lawrence C.: *See*—
Favara, Louis, and Green.

Greenspan, Frank P., Buffalo, and D. G. MacKellar, Kenmore, assignors to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y. Stabilization of peracids. 2,663,624, Dec. 22.

Gregory Industries, Inc., assignee: *See*—
Friedly, Robert C.

Grenzeback, James H., Los Angeles, Calif. Power transmitting device for overhead garage doors. 2,663,047, Dec. 22.

Gretener, Edgar, Zurich, Switzerland, Blown arc lamp. 2,663,792, Dec. 22.

Grimm, Eric, East Orange, assignor to U. S. Tool Company, Inc., Ampere, N. J. Slide feed mechanism. 2,663,566, Dec. 22.

Griscom-Russell Company, The, assignee: *See*—
Otten, Philip S.

Grisé, Alfred L., Springfield, and F. E. Neef, Jr., Longmeadow, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Swivel pipe coupling. 2,663,581, Dec. 22.

Grooms, Herbert H., West Union, Ohio. Traffic control signal. 2,663,279, Dec. 22.

Grove, Harold C., Charlotte, N. C., Driving means for slicing machines. 2,663,341, Dec. 22.

Grove Regulator Company, assignee: *See*—
Ramsey, Grover S.

Grüner, Frederick R., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Anti-vibration gear drive. 2,663,201, Dec. 22.

Grunwald, Edward, New York, N. Y. Personalized picture-playing cards. 2,663,418, Dec. 22.

Gulf Research & Development Company, assignee: *See*—
Wickerham, Warren E. and Doolen.

Gummere, Harold O. and E. Linsker, assignors to Buckeye Tools Corporation, Dayton, Ohio. Torque indicating power operated tool. 2,663,209, Dec. 22.

Guzy, Pete, Washington, Pa. Fishing signal. 2,663,110, Dec. 22.

Haag, Ivan L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Plumping leather with a sol of large silica particles. 2,663,614, Dec. 22.

Haas, Harold G., Belleville, assignor to Bendix Aviation Corporation, Teterboro, N. J. Two-stage starting system. 2,663,840, Dec. 22.

Haddock, Norman H.: *See*
Gangwin, Karl O., and Haddock.
Gangwin, Karl O., Haddock, and Macdonald.

Hadley, Clifford M., Chicago, Ill. Golf bag support. 2,663,528, Dec. 22.

Haensel, Vladimir, Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Preparation of alumina from aluminum chloride hexahydrate. 2,663,620, Dec. 22.

Hage, Sigurd D., assignor to Boeing Airplane Company, Seattle, Wash. Gas turbine. 2,663,141, Dec. 22.

Hagemeyer, Hugh J., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Water resistant protein materials. 2,663,617, Dec. 22.

Hall, Charles G., assignor of one-half to L. V. Dieter, Los Angeles, Calif. Toy catapulting gun. 2,663,291, Dec. 22.

Haloid Company, The, assignee: *See*
Middleton, Arthur E.

Hamm, Willy F.: *See*—
Sindzinski, Willy K., and Hamm.

Hammond, William E., Wellsville, and C. A. Ballard, Belmont, assignors to The Air Preheater Corporation, New York, N. Y. Heat exchanger envelope comprising notched channels mounting sinuous fin elements. 2,663,550, Dec. 22.

Handcraft Company, Inc., assignee: *See*—
Giese, Alfred G., Jr.

Hanhart, Carl G., Thalwil, Zurich, Switzerland. Apparatus for wet treatment of a continuous wide strip of fabric. 2,663,177, Dec. 22.

Hanna, Clinton R.: *See*—
Holliday, Ivar M., Douglas, and Hanna.

Hansen, Francis F., Pittsburgh, Pa. Milk powder and its preparaiton. 2,663,643, Dec. 22.

Hansen, Francis F., Pittsburgh, Pa. Preparation of milk powder. 2,663,644, Dec. 22.

Hardgrave, Walter H., Albuquerque, N. Mex. Weather strip. 2,663,056, Dec. 22.

Harding, William R., East Aurora, and L. G. Opel, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Plural-stage rotary amplifier. 2,663,841, Dec. 22.

Harley, Joseph J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cable lashing machine. 2,663,544, Dec. 22.

Harms, Herman L., South St. Paul, Minn. Seat support. 2,663,355, Dec. 22.

Harms, William P., Bellevue, Wash. Double adjustable rifle telescope mount. 2,663,083, Dec. 22.

Harris, Herman R., Grosse Pointe Woods, Mich. Trough type oil burner with forced combustion air supply. 2,663,366, Dec. 22.

Harris Seybold Company, assignee: *See*—
Wood, William H., and Adams.

Harrison, John R., Woodhaven, N. Y. Drop foot brace. 2,663,294, Dec. 22.

Harrison, William V., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission control. 2,663,199, Dec. 22.

Harrow, Eugene, assignor of forty percent to G. N. Calhoun, Philadelphia, Pa. Collar fastener and tie clasp. 2,663,060, Dec. 22.

Hart, Linton, Birmingham, Mich., assignor to Raymond Concrete Pile Company, New York, N. Y. Pile-driving. 2,663,152, Dec. 22.

Hartford National Bank and Trust Company, trustee, assignee: *See*
Blaem, Herman, and Stol.
Buchner, Robert B.
Diemer, Gesinus, and Rodenhuis.
Elenbaas, Willem, Kolkman, and Hurx.
Klopping, Carel P.
Schmitz, Matthews J., and Buchner.
Teves, Marten C., and Tol.
Van Werd, Johannes H. F., and Anderson.
Vervost, Wilhemus L., and van Gelder.

Hartz, Raymond J., Cuyahoga Falls, assignor to Jack & Heintz, Inc., Cleveland, Ohio. Centrifugal device. 2,663,771, Dec. 22.

Haselwood, Willis E., assignor to Taylor Sales Engineering Corporation, Elkhart, Ind. Floating liquid intake. 2,663,425, Dec. 22.

Haskell, Frederic V.: *See*
Carr, James A., Haskell, Sutton, and Walter.

Hattis, Russell E.: *See*—
Frey, Erik, and Hattis.

Haubrich, Earl, assignee: *See*—
Burkland, Carl J.

Hawley Products Company, assignee: *See*—
Curtis, Russell H.

Hayes, Kenyon J., assignor to Eaton Laboratories, Inc., Norwich, N. Y. Series of nitrofuran compounds comprising 5-nitro-2-furyl-2-dialkylaminoalkyl ketone semicarbazone salts. 2,663,710, Dec. 22.

Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Railroad track appliance. 2,663,526, Dec. 22.

Hayes Track Appliance Company, assignee: *See*—
Hayes, Stanley W.

Hayward, Arthur S.: *See*—
Scott, Richard H. and Hayward.

Heat X-Changer Co., Inc., The, assignee: *See*—
Boling, Cecil.

Heath, Jack V., Vivian, S. Dak. Baby trainer chamber. 2,663,861, Dec. 22.

Heckathorn, Loyd E.: *See*—
Rapp, Howard B., and Heckathorn.

Heckman, George J., Longmeadow, Mass., and E. M. Paterwic, Thompsonville, Conn., assignors to Gilbert-Barker Manufacturing Company, West Springfield, Mass. Control for apparatus for dispensing compressed fluid in pulses. 2,663,310, Dec. 22.

Hedelund, John W.: *See*—
Frevel, Lado K., and Hedelund.

Hellmann, Jay T., Chicago, Ill. Safety razor. 2,663,078, Dec. 22.

Helm, Charles W., Jr., Rocky Hill, Conn., assignor to The Gray Manufacturing Company. Record apparatus and method. 2,663,050, Dec. 22.

Heltzel, Robert E., Warren, Ohio. Operating mechanism for compressible sealing closures for hoppers. 2,663,466, Dec. 22.

Henderson, Erskine J.: *See*—
Davidson, Noland D., and Henderson.

Hendrickson, Hugo, Port Angeles, Wash. Truck scale. 2,663,562, Dec. 22.

Hensgen, Bernard T., assignor to Swift & Company, Chicago, Ill. Cheese curd cutter. 2,663,081, Dec. 22.

Hensgen, Bernard T., and H. G. Reichel, assignors to Swift & Company, Chicago, Ill. Ham pumping. 2,663,247, Dec. 22.

Henszey, Roy O., Oconomowoc, Wis. Sanitary fastener. 2,663,212, Dec. 22.

Hept, Ralph W., Dayton, Ohio, and N. H. Weber, Bronson, Mich., assignors to Kingston Products Corporation, Indianapolis, Ind. Combined starter and ignition switch. 2,663,780, Dec. 22.

Hercules Powder Company, assignee: *See*—
Bewley, Thomas, and Wilkins.
Calhoun, George M., and Reese.
Filar, Leo J., and Taves.
Subluskey, Leo A.

Herder, Harry D., assignor to Atlas Press Company, Kalamazoo, Mich. Hold-down for jig saws or the like. 2,663,331, Dec. 22.

Herrmann, John F., Cheektowaga, and W. A. Gilbert, Snyder, N. Y., assignors to American Optical Company, Southbridge, Mass. Film reel construction. 2,663,513, Dec. 22.

Herro, Alexander C.: *See*—
Whitaker, Randall, and Herro.

Hershberger, William D., Princeton, N. J., assignor to Radio Corporation of America. Method and system for stabilizing the frequency of oscillators. 2,663,798, Dec. 22.

Herzog, Carl, Belleville, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for forming articles. 2,663,120, Dec. 22.

Herzog, Gerald B., New Brunswick, N. J., assignor to Radio Corporation of America. Frequency controlled oscillator system. 2,663,800, Dec. 22.

Hess, Carl B., New York, N. Y., and H. M. Richardson, Springfield, Mass., assignors to Brasco Manufacturing Company, Harvey, Ill. Nailable material from natural rubber or butadiene-styrene copolymer, plasticizer, cellulose, and asbestos. 2,663,693, Dec. 22.

Hettrick, Carl R., Terrace Park, Ohio. Writing implement flashlight attachment. 2,663,791, Dec. 22.

Hewitt Robins Incorporated, assignee: *See*
Petterson, Reinhardt, and Weygandt.

Heydenburg, Norman P., Silver Spring, Md., and R. B. Roberts, Washington, D. C. Fuze time computer. 2,663,106, Dec. 22.

Hickman, Albert F., Eden, N. Y. Spring suspension for tandem axle trucks. 2,663,570, Dec. 22.

Hickman, Paul: *See*
Catlin, Robert T., Cummings, Eckstein, and Hickman.

Hill, Elvin, Andersonville, assignor of twenty per cent to J. H. Collett, Maynardville, and five per cent to H. T. Spoden, Knoxville, Tenn. Automatic intermittent feed and cut cordwood saw. 2,663,330, Dec. 22.

Hill, Eugene F., Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y. Preparation of organic esters. 2,663,720, Dec. 22.

Hill, Eugene F., Birmingham, and D. O. De Prez, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y. N-alkyl N'-(p-hydroxyphenyl) ureas. 2,663,730, Dec. 22.

Hill, Irving, and G. L. Miller, assignors to The Lawrence Paper Company, Lawrence, Kans. Case. 2,663,401, Dec. 22.

Hilland, Henry J., Chicago, Ill. Printer's lockup device. 2,663,258, Dec. 22.

Hills Bros. Coffee, Inc., assignee: *See*
Hoagland, Hjalmar G.

Hilpman, Paul, Garden City, N. Y., assignor to Mergenthaler Linotype company. Safety attachment for type-operated line casting machines. 2,663,407, Dec. 22.

Hinchcliffe, Eric J.: *See*
Butterworth, Edward, and Hinchcliffe.

Hinchman, Alva K., Bryn Mawr, Pa. Motion-picture film winder. 2,663,509, Dec. 22.

Hinckle, Edward R., Dorchester, Mass. Hydraulic spring hanger. 2,663,534, Dec. 22.

Hinckle, Edward R., Dorchester, Mass. Hydraulic spring hanger. 2,663,535, Dec. 22.

Hirsch, Clifford B., Hartford, Conn. Record holder. 2,663,416, Dec. 22.

Hoagland, Hjalmar G., Minneapolis, Minn., assignor to Hills Bros. Coffee, Inc., San Francisco, Calif. Display card and support. 2,663,104, Dec. 22.

Hoagland, Hortense E., Flint, Mich. Colander. 2,663,428, Dec. 22.

Hodgens, John G., Jr., Chippewa Falls, Wis., assignor to The Diversey Corporation. Unitary solution control apparatus. 2,663,308, Dec. 22.

Hodges, Howard T., assignor to Eastman Kodak Company, Rochester, N. Y. Double exposure prevention device. 2,663,234, Dec. 22.

Hoe, R. & Co., Inc., assignee: *See*
Albrecht, Alexander J.

Hogin, David R., Searsdale, N. Y., assignor to Standard Oil Development Company. Apparatus for handling finely divided solid materials. 2,663,465, Dec. 22.

Holcomb, Arthur L., Tarzana, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y. Curve follower. 2,663,857, Dec. 22.

Holland Hitch Company, assignee: *See*
Ketel, Henry.

Holliday, Ivar M., G. R. Douglas, and C. R. Hanna, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gyroscope system for dirigible craft. 2,663,838, Dec. 22.

Hollingsworth, Kenneth A., Cedar Rapids, Iowa. Fish lure guard. 2,663,111, Dec. 22.

Holmes, Frank G., Philadelphia, Pa. Telephone holding unit. 2,663,764, Dec. 22.

Holt, Edman F.: *See*
Fetter, William G., Wood, and Holt.

Holtzclaw, Grover B., Charlotte, N. C., assignor to Parks-Cramer Company, Fitchburg, Mass. Humidifying system and apparatus. 2,663,500, Dec. 22.

Homan, Jan D. H., Oss, Netherlands, assignor to Organon Inc., Orange, N. J. Preparing crystalline insulin from acid alcoholic extracts of pancreas glands. 2,663,666, Dec. 22.

Homer, Horace H., Arlington, assignor to Sylvania Electric Products Inc., Salem, Mass. Electric discharge lamp. 2,663,816, Dec. 22.

Homme, Vernon E.: *See*
Lloyd, Rex R., Rosenbaum, and Homme.

Honan Crane Corporation, assignee: *See*
Gardes, Alfred W.

Hooker, Charles L., Jr., El Cajon, Calif. Disposal device for cigars, cigarettes, and like waste materials. 2,663,504, Dec. 22.

Hopkins, Alfred J.: *See*—
Sauerman, Ernst C., Hopkins, Joseph and John Erwood.

Hopkins, Harold H., assignor to W. Watson & Sons, Limited, London, England. Variable magnification optical system. 2,663,223, Dec. 22.

Horan, Ralph P., Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Belt tensioner. 2,663,195, Dec. 22.

Horil, Ferdinand J., Jr., New Orleans, La. Partition structure. 2,663,054, Dec. 22.

Horn, Merl E.: *See*—
MacNeil, John B., Stuellein, and Horn.

Houdaille-Hershey Corporation, assignee: *See*—
Pierce, William J.
Sebok, Frank.

Houdry Process Corporation, assignee: *See*—
Ardern, David B.
Savage, Reuben T.
Savage, Reuben T., and Ivey.
Shirk, Robert M.

Howard, Arthur C., East Horndon, assignor of one-half to Rotary Hoes Limited, East Horndon, Essex, England. Earth working tool for the rotor or rotary cultivating machines. 2,663,241, Dec. 22.

Howard, Dudley B.: *See*—
Mellinger, Edward R. and R. E., and Howard.

Howard, Graham W., Fort Collins, Colo. Agricultural apparatus for blocking row crops and the like. 2,663,258, Dec. 22.

Huffman Full Fashioned Mills, Inc., assignee: *See*—
Pons, John A.

Huhn, Fritz, Ventura, Calif., assignor to Western Inspection Company, Incorporated, Midland, Tex. Tube testing apparatus. 2,663,183, Dec. 22.

Hull, David C., and W. R. Saunders, Longview, Tex., assignors to Eastman Kodak Company, Rochester, N. Y. Recovery of lower acid anhydrides by distillation. 2,663,681, Dec. 22.

Hunt, John J., Irondequoit, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Abrasant supplying means. 2,663,127, Dec. 22.

Huntzicker, Harry N., Evanston, M. C. Dailey, Elmhurst, and B. R. Minnis, Glenview, assignors to United States Gypsum Company, Chicago, Ill. Ball milled high calcium lime and making the same. 2,663,646, Dec. 22.

Huntzicker, Harry N., Evanston, assignor to United States Gypsum Company, Chicago, Ill. Hydrated lime composition and process. 2,663,647, Dec. 22.

Hurx, Adrianus A.: *See*—
Elenbaas, Willem, Kolkman, and Hurx.

Hutchins, Ralph P., and F. C. Simon, assignors to The French Oil Mill Machinery Company, Piqua, Ohio. Solvent extraction apparatus and method. 2,663,624, Dec. 22.

Hutchison, James R., Palm City, assignor of one-half to L. F. Ashley, Chula Vista, Calif. Variable timing cam follower. 2,663,288, Dec. 22.

Hyman, Sidney, New York, N. Y. Handbag. 2,663,343, Dec. 22.

Hyster Company, assignee: *See*—
Ehmann, Leslie G.

Iler, Ralph K., Cleveland Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing coated silica particles and product obtained thereby. 2,663,650, Dec. 22.

Ilgenfritz, Lester M., Mamaroneck, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Humidity indicator. 2,663,190, Dec. 22.

Ilian, Douglas F., Oak Park, and N. T. Terp, Chicago, Ill., assignors to General Electric Company. Timer apparatus. 2,663,786, Dec. 22.

Illinois Tool Works, assignee: *See*—
Burdick, Hugh T.

Imperial Chemical Industries Limited, assignee: *See*—
Ganguin, Karl O., and Haddock.
Ganguin, Karl O., Haddock, and Macdonald.
Mitchell, Dugald.

Independent-Eastern Torpedo Company, The, assignee: *See*—
Kingston, Benson M., and Childress.

Industrial Devices, Incorporated, assignee: *See*—
Geen, Cory P.

Infilco Incorporated, assignee: *See*—
Pew, Preston F.

Ingham, Herbert W.: *See*—
Banbury, George W., and Ingham.

Ingle, Dwight J., assignor to The Upjohn Company, Kalamazoo, Mich. Rotary rat fatigue machine. 2,663,282, Dec. 22.

Insley, Norman, Nanuet, N. Y., and T. L. Tanner, Metuchen, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Circuit regulating device. 2,663,782, Dec. 22.

Intelligent Machines Research Corporation, assignee: *See*—
Shepard, David H.

Interior, United States of America as represented by the Solicitor of the Department of the, assignee: *See*
Lloyd, Rex R., Rosenbaum, and Homme.

International Nickel Company, Inc., The, assignee : *See*—
Busby, Arthur D.
Tschop, Harry E., Carter, and Goodrich.
International Standard Electric Corporation, assignee : *See*—
Clavier, André G., and Thomas.
Donn, Heinz.
Klein, Otto J.
Reeves, Alec H., and White.
Sindzinski, Willy K., and Hamm.
Ipatieff, Vladimir N. : *See*—
Pines, Herman, and Ipatieff.
Isaac, Siegfried, New York, N. Y. Waist and abdominal fitting portion in nether garment. 2,663,025, Dec. 22.
Isaacson, F. T., assignee : *See*—
Jackson, Rodney.
Isaacson, Paul J., assignee : *See*—
Jackson, Rodney.
Iversen, Lorenz, assignor to Mesta Machine Company, Pittsburgh, Pa. Means and method of making metal strip. 2,663,784, Dec. 22.
Ivey, Edwin H., Jr. : *See*—
Savage, Reuben T., and Ivey.
Jack & Heintz Precision Industries, Inc., assignee : *See*—
Scott, Lloyd H.
Jackson, Rodney, Seattle, Wash., assignor to P. J. and F. T. Isaacson. Motorized band truck. 2,663,440, Dec 22
Jacobson, Larry : *See*—
Perloff, John W., and Jacobson.
Jacquard Knitting Machine Co., Inc. assignee : *See*—
Jessen, Charles C.
Jack & Heintz, Inc., assignee : *See*—
Hartz, Raymond J.
Jahn, Marion C., Lake County, W. E. Shapcott, and D. W. Smith, Cook County, assignors to Colborne Manufacturing Co., Chicago, Ill. Fluid substance depositor for filling continuously moving receptacles. 2,663,478, Dec. 22
Jamison, Noel C., and T. R. Kohler, assignors to Philips Laboratories, Inc. Irvington-on-Hudson, N. Y. X-ray tube window. 2,663,812, Dec. 22
Jandasek, Vladimir J., Detroit, Mich., assignor to Borg-warner Corporation, Chicago, Ill. Blading for hydraulic torque converters. 2,663,148, Dec. 22.
Jantsch, Emil, assignor to O. F. Gayton, Youngstown, Ohio. Tubular heat transfer apparatus. 2,663,321, Dec 22.
Jelling, Murray, Brooklyn, N. Y. Thermally stable bituminous bonding compositions. 2,663,648, Dec. 22.
Jennings, James R. : *See*—
Donnell, Robert, and Jennings.
Jennings, John R., assignee : *See*—
Logan, David J.
Jessen, Charles C., Miami, Fla., assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa. Take-up 2,663,174, Dec. 22.
Joffre, Stephen P., Cedar Grove, assignor to Shulton, Inc., Clifton, N. J. Propenyl-guaethol and making same 2,663,741, Dec 22.
Johansen, Rolf J., assignor to Aktiebolaget Kamyr, Karlstad, Sweden. Inclined rotary vacuum filter. 2,663,432, Dec. 22.
Johns Manville Corporation, assignee : *See*—
Graybeal, Bruce A.
Johnson, Clarence A., Guthrie, Minn. Undergrowth destroyer. 2,663,131, Dec. 22.
Johnson, Clarence J., Holmen, assignor to Oniers Laboratories, Inc., Onalaska, Wis. Seed planter. 2,663,462, Dec. 22.
Johnson, George C. : *See*—
Francis, Alfred W., and Johnson.
Johnson, Melvin S., Moon Run, Pa. Automatic coffee-maker. 2,663,248, Dec. 22.
Johnson, Richard H., Arlington Heights, assignor to Container Corporation of America, Chicago, Ill. Container with carrying handle. 2,663,485, Dec. 22.
Johnson, William S., Madison, Wis., and R. G. Christiansen, Rensselaer, N. Y., assignors to Wisconsin Alumni Research Foundation, Madison, Wis. Synthesis of estrone. 2,663,716, Dec. 22.
Johnston, Blaine, Pasadena, and J. C. Mason, Bellflower, Calif., said Johnston assignor, by mesne assignments, to said Mason. 2,663,285, Dec 22
Jones, Edwin P., Merced, Calif. Speed recorder. 2,663,609, Dec. 22.
Jones, Floyd S., Durham, N. C. Animal trap. 2,663,116, Dec. 22
Jonkopings Mekaniska Werkstads Aktiebolag, assignee : *See*—
Malmvik, Elof, and Dunér.
Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine 2,663,036, Dec. 22.
Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,663,037, Dec. 22.
Joslyn, Stuart S., assignor to C. J. Bates & Son, Chester, Conn. Display device. 2,663,527, Dec. 22.
Journal Box Servicing Corporation, assignee : *See*—
Bissell, William T., and Potter.
Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Materials handling apparatus. 2,663,143, Dec. 22.
Joy Manufacturing Company, assignee : *See*—
Baldwin, Clyde P.
Collins, Samuel C.
Joy, Joseph F.
Judell, Julius S. : *See*—
Palmer, Vernon J., and Judell.
Jukich, Michael : *See*—
Goulding, Albert, Jr., and Jukich.
Julius, J. D., Fort Worth, Tex. Animal handling device. 2,663,283, Dec. 22.
Kalfalan, Meguer V., Los Angeles, Calif. Synchronization in color television 2,663,756, Dec. 22.
Kalinowski, Mathew L., assignor to Standard Oil Company, Chicago, Ill. Desulfurization of petroleum oils 2,663,673, Dec. 22.
Kalthoff, Jesse H., Kansas City, Mo. Harness for invalid hoists. 2,663,031, Dec. 22.
Kamm, Wunibald I. E. : *See*—
Krautter, Willy F., Kamm, and Stalger.
Kammerer, Archer W., Fullerton, Calif. Rotary drill bit and cutter. 2,663,546, Dec. 22.
Kaplan, Irving, Flushing, N. Y. Tape dispenser and applicator. 2,663,444, Dec. 22
Karthauser, Fritz B. : *See*—
Thring, Meredith W., and Karthauser.
Keal Products, Inc., assignee : *See*—
Ederer, Lothar A.
Kearful, Godfrey G. : *See*—
Lincoln, Clovis W., Kearful, and Galonska.
Keast, Francis H., Toronto, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Blading for compressors, turbines, and the like. 2,663,493, Dec. 22.
Keeney, James O., Manistee, Mich. Combined can puncturing and can holder device. 2,663,460, Dec. 22.
Keiser, Edward W., and A. F. Kieser, Minneapolis, Minn. Attachment assembly for live boxes. 2,663,333, Dec. 22
Keller, Harry, Philadelphia, Pa. Edge trimming machine 2,663,352, Dec. 22.
Keller, William, Flint, Mich. Baffle type muffler. 2,663,378, Dec. 22.
Kelly, Edward J., Seattle, Wash. Outboard motor carrier 2,663,474, Dec. 22
Kenney, Joseph F., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Priming composition. 2,663,627, Dec. 22.
Kenyon, George W. : *See*—
Frink, Carl H., and Kenyon.
Kepple, Charles G. : *See*—
Weltman, William C., and Kepple.
Kershaw, Henry, Belleville, N. J. Socket for fluorescent lamps and the like. 2,663,852, Dec. 22.
Kersten, Samuel, and A. F. Sautter, Chicago, Ill., said Sautter assignor to said Kersten. Diverter spout plumbing fixture 2,663,539, Dec. 22.
Kessler, Paul D., Silver Creek, N. Y. Manufacture of smoothbore gun barrels 2,663,410, Dec 22.
Ketel, Henry, Los Angeles, Calif., assignor to Holland Hitch Company, Holland, Mich. Fifth wheel jaw wear compensating means. 2,663,575, Dec. 22.
Keuffel & Esser Comp., assignee : *See*—
Reichel, Maximillian K., and Neugebauer.
Kieser, Andrew F. : *See*—
Keiser, Edward W., and A. F. Kieser.
Kilpatrick, Myron O., Bartlesville, Okla., assignor to Phillips Petroleum Company. Deoiling of pebbles in pebble heater cracking of hydrocarbons 2,663,678, Dec. 22.
Kincaid, Elbert B., Cincinnati, Ohio, assignor to Container Corporation of America, Chicago, Ill. Packing element. 2,663,417, Dec 22
Kingsley, Lewis A., Los Angeles, Calif. Typeholder for gold stamping machines 2,663,252, Dec 22
Kingston, Benson M., and J. B. Childress, Breckenridge, Tex., assignors to The Independent-Eastern Torpedo Company. Well treating solution. 2,663,689, Dec. 22
Kingston Products Corporation, assignee : *See*—
Hept, Ralph W., and Weber.
Kinsinger, Andrew S., Gordonville, Pa. Excavating and cable laying machine. 2,663,515, Dec. 22.
Kirwin, Edward A., assignee : *See*—
Kowall, Alfred E.
Klages, Henry W., Portland, Oreg. Land leveling machine. 2,663,099, Dec. 22
Klein, Otto J., Nurnberg (Bavaria), Germany, assignor to International Standard Electric Corporation, New York, N. Y. Selenium dry-disk rectifier. 2,663,831, Dec. 22.
Klöckner-Humboldt-Deutz A. G., assignee : *See*—
Müller, Franz.
Müller, Franz, and Winners.
Kloess, Armin J., Los Angeles, Calif. Producing edible coatings for edible products. 2,663,269, Dec. 22.
Klopping, Carel P., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Short-wave electric discharge tube. 2,663,820, Dec. 22.
Koch, Samuel J., Elmont, N. Y. Clamp on type electrical measuring instrument. 2,663,845, Dec. 22.
Kock, Winston E., Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directive antenna. 2,663,797, Dec. 22.
Kohler, Thomas R. : *See*—
Jamison, Noel C., and Kohler.

Kolkman, Dirk : *See*—
Elenbaas, Willem, Kolkman, and Hurx.
Kornfeld, Edmund C., assignor to Eli Lilly and Company, Indianapolis, Ind. Hydrogenated benz[CD]indoles. 2,663,714, Dec. 22.
Kostka, Franz, Vienna, Austria. Device for selectively dispensing ordinary and carbonated water. 2,663,556, Dec. 22.
Kowall, Alfred E., Westchester, Ill., assignor of one-half to E. A. Kirwin, Wilmington, Del. Concealing defects in a surface. 2,663,651, Dec. 22.
Kozak, Alfred W. : *See*—
Beggs, George E., Jr., and Kozak.
Kraus, Charles A., Providence, R. I., and D. W. Young, Westfield, N. J., assignors to Standard Oil Development Company. Production of asphalt. 2,663,672, Dec. 22
Krause, Jack H., and R. H. Brown, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Refining sour hydrocarbon oils. 2,663,674, Dec. 22.
Krautter, Willy F., Lynbrook, N. Y., W. I. E. Kamm, Dayton, Ohio, and K. Stalger, Indianapolis, Ind., said Krautter assignor to the United States of America as represented by the Secretary of the Air Force. Automatic refueling boiler device. 2,663,363, Dec. 22.
Krings, Bernard J., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Traction-motor control. 2,663,837, Dec. 22.
Krogel, Christopher J., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire insulating apparatus 2,663,229, Dec. 22.
Kropa, Edward L., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Quaternarizing polymers of N,N di-methyl-p-aminostyrene. 2,663,702, Dec. 22.
Krueger, Frank W., and W. de Back, assignors to Food Machinery and Chemical Corporation, San Jose, Calif Filling machine. 2,663,481, Dec. 22.
Kuehlthau, John L. : *See*—
Rosenberg, Leon T., and Kuehlthau.
Kuh, Erwin : *See*—
Parker, Robert P., Seeger, and Kuh
Kuhns, James H., Winfield, Kans. Portable container combination. 2,663,391, Dec. 22.
Kunz, Charles B. : *See*—
Babbitt, Bernard R., and Kunz.
Kurtz, Lowell M., Erie, Pa., assignor to General Electric Company. Parallel compressor arrangement in refrigerating system. 2,663,164, Dec. 22
Kurzenberger, Richard F. : *See*—
Farrington, Robert K. and T. B., and Kurzenberger.
Kyle, H. A., assignee : *See*—
Caldwell, Oscar D.
Laemmel, Charles H., assignor, by mesne assignments, to The Sheffield Corporation, Dayton, Ohio. Automatic pull-off or yoke operated die head. 2,663,033, Dec. 22.
Lagrange, Victor E., Lake Charles, La., and D. J. Parmesan, Houston, Tex., assignors, by mesne assignments, to Chiksan Company, Brea, Calif. Control apparatus for discharge valves. 2,663,459, Dec. 22.
Lahonen, Tolvo, The Pas, Manitoba, assignor of one-half to L. W. Bennett, Port Arthur, Ontario, Canada. Dispenser for poison grain and the like 2,663,464, Dec. 22.
L'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude : *See*—
Godillon, Raymond.
Lakso, Lauri A., Leominster, Mass., assignor to General Electric Company. Stem-sealed valve with multiple actuating means. 2,663,318, Dec. 22.
Lancaster, Archie B., Duck Hill, Miss. Mechanical sod cutter and loader. 2,663,242, Dec. 22.
Lancome S. A., assignee : *See*—
Frydlender, Sophie.
Laramy, Richard C., Joliet, Ill., assignor, by mesne assignments, to Queen Stove Works, Inc., Albert Lea, Minn. Portable ice chest for storing foods and the like. 2,663,157, Dec. 22.
Large, William E., and R. F. Barrell, Lancaster, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric discharge apparatus for alternating current motors. 2,663,834, Dec. 22.
Larras, Jean A. : *See*—
Laurent, Jean, and Larras.
Latham, Edgar H., Jr., Palm Beach, Fla. Apparatus for constructing sea walls. 2,663,064, Dec. 22.
Laurent, Jean, Maisons-Alfort, France, and J. A. Larras, Algier, Algerie. Surge generating apparatus. 2,663,092, Dec. 22
Law, Harold B., Princeton, N. J., assignor to Radio Corporation of America. Masked target kinescope. 2,663,821, Dec. 22
Lawatsch, Frank E. : *See*—
Strezynski, George J., and Lawatsch.
Lawrence, Donald M., Wood Ridge, assignor to Bendix Aviation Corporation, Teterboro, N. J. Oil separator and pressure regulating device for aircraft ice eliminating systems. 2,663,522, Dec. 22.
Lawrence Paper Company, The, assignee : *See*—
Hill, Irving, and Miller.
Layte, Ralph R., Westfield, assignor to Purolator Products, Inc., Rahway, N. J. Assembling filter elements. 2,663,660, Dec. 22.
Leckler, Frank, Forest Hills, N. Y. Combined closure and applicator device. 2,663,040, Dec. 22.
Le Clair, Joseph A., Lewiston, Maine. Mobile vehicle with load boom and mobile stabilizer. 2,663,433, Dec. 22.
Lee Engineering Company, assignee : *See*—
Lee, Royal.
Lee, Royal, Elm Grove, assignor to Lee Engineering Company, Milwaukee, Wis. Drill head. 2,663,202, Dec. 22.
Leeds and Northrup Company, assignee : *See*—
Beggs, George E., Jr., and Kozak.
Legendre, Robert G., Paris, France. Combined gas and steam power plant. 2,663,146, Dec. 22.
Leidich, Edwin E : *See*—
Earle, Norman E., and Leidich.
Leisy, Clifford J., assignor to Boeing Airplane Company, Seattle, Wash. Aircraft interconnecting mechanism 2,663,523, Dec. 22.
Leitz, Ernst, G. m. b. H., assignee : *See*—
Broschke, Heinrich.
Lempco Products, Inc., assignee : *See*—
Smole, Jack F., and Collier.
Lentz, Marshall E., and A. J. Anderson, Bedford, and H. L. Driffill, deceased (by C. Wantland, executrix), Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Core lifting and setting fixture 2,663,058, Dec 22
Levine, Max, assignee : *See*—
Enstein, Hyman.
Levy, Gabor B., Lawrenceburg, Ind., assignor to Schenley Industries, Inc., New York, N. Y. Electrolytic production of dihydrostreptomycin and salts thereof. 2,663,685, Dec. 22.
Lewandowski, Bernard C. and F. V., Buffalo, N. Y. Baby cuff. 2,663,295, Dec. 22.
Lewandowski, Frank V : *See*—
Lewandowski, Bernard C. and F. V.
Lewis, Willard D., Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic wave microwave frequency filter 2,663,848, Dec. 22
Licciardello, Fred A., North Andover, Mass. Nozzle adapter seat refacing device 2,663,227, Dec. 22.
Lichtenfels, Ira W., Harborcreek, Pa., assignor to General Electric Company. Electric motor control system 2,663,836, Dec. 22
Ligett, Waldo B., Berkley, C. N. Wolf, Ferndale, and R. D. Closson, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y. N-naphthyl maleamic esters 2,663,665, Dec. 22
Lilly, Eli, and Company, assignee : *See*—
Kornfeld, Edmund C.
Lincoln, Clovis W., G. G. Kearful, and D. A. Galonska, Saginaw, assignors to General Motors Corporation, Detroit, Mich. Jack. 2,663,542, Dec. 22.
Lingal, Harry J : *See*—
MacNeill, John B., and Lingal.
Links, Heinrich K., Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Regulator for injection combustion engines. 2,663,289, Dec 22
Linnert, George E., Baltimore, Md., assignor to Armco Steel Corporation. Welding turbine rotors. 2,663,075, Dec 22.
Linotype and Machinery Limited, assignee : *See*—
Scott, Richard H., and Hayward
Linsker, Eugene : *See*—
Gummere, Harold O., and Linsker.
Lipkin, Charles, New York, N. Y. Multiplying calculator, including a slidable slate. 2,663,093, Dec. 22.
Little, Arthur D., Inc., assignee : *See*—
Dawbarn, Waring L.
Livermore, William T., Grosse Pointe Farms, Mich. Automatic clutch. 2,663,393, Dec. 22.
Lloyd, Rex R., J. B. Rosenbaum, and V. E. Homme, Boulder City, Nev., assignors to the United States of America as represented by the Solicitor of the Department of the Interior. Production of electrolytic chromium from ferrochrome 2,663,686, Dec. 22.
Lockheed Aircraft Corporation, assignee : *See*—
Price, Nathan C.
Logan, David J., assignor of ten per cent to J. R. Jennings and ten per cent to A. C. Payne, Taylorsville, N. C. Radiator cleaning apparatus. 2,663,304, Dec. 22
Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Preenergizing circuits for line relay and vertical magnet of automatic switches 2,663,762, Dec. 22
Lorentzen, Hans K., Montclair, N. J., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Venetian blind bottom bar. 2,663,367, Dec. 22.
Lorentzen Hardware Mf'g Corp., assignee : *See*—
Lorentzen, Hans K.
Lorenz, Anton, Buffalo, N. Y. Article of repose for supporting the body of a person. 2,663,356, Dec. 22
Lorenz, Anton, Buffalo, N. Y. Article of repose for supporting the body of a person. 2,663,358, Dec. 22.
Lotthammer, Eric K. : *See*—
Winchester, Dora, and Lotthammer.
Lubcke, Harry R., assignor to General Teleradio, Inc., Los Angeles, Calif. Television apparatus. 2,663,757, Dec 22.

Lukasiewicz, Sigmund J., and W. I. Denton, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Catalytic hydration of olefins. 2,663,744, Dec. 22.

Lummus Company, The, assignee: *See*—
Evans, George W., Jr., and Brockel.
Worn, George A.

Lundquist, Lester E., Jr.: *See*—
Wood, William W., Jr., and Lundquist.

Lyttaker, Ernest V., North Puyallup, Wash. Receptacle base and cover operating mechanism. 2,663,529, Dec. 22.

Macdonald, Eric: *See*—
Ganguin, Karl O., Haddock, and Macdonald.

MacDowell, John R., Worthington, Ohio. Register outlet for warm air house-heating systems. 2,663,244, Dec. 22.

MacGlashan, William F., Jr., Alhambra, Calif., assignor to the United States of America as represented by the Secretary of the Army. Rupture diaphragm unit. 2,663,458, Dec. 22.

Maciejowski, John J.: *See*—
Daniels, Richard W., Jr., and Maciejowski.

MacInnes, John N., Newfields, and P. H. Gerard, Newmarket, N. H. Means to indicate temperature and electric failure. 2,663,858, Dec. 22.

MacInnes, John N., Newfields, and P. H. Gerard, Newmarket, N. H. Thermal and magnetic means of indicating temperature and electric failure. 2,663,859, Dec. 22.

MacInnes, John N., Newfields, and P. H. Gerard, Newmarket, N. H. Thermal means of indicating temperature and electric failure. 2,663,860, Dec. 22.

Mackay, Thomas R., Pomona, and P. L. Angel, La Verne, Calif., assignors to Fairbanks, Morse & Co., Chicago, Ill. Line shaft guide bearing. 2,663,599, Dec. 22.

MacKellar, Donald G.: *See*—
Greenspan, Frank P., and MacKellar.

MacNeill, John B., and H. J. Lingal, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electromagnetic trip circuit breaker. 2,663,774, Dec. 22.

MacNeill, John B., Pittsburgh, and W. H. Stuellein, East McKeesport, and M. E. Horn, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,663,775, Dec. 22.

MacPherson, William, Westlake, Ohio. Ladder bracket. 2,663,484, Dec. 22.

Magill, Gilbert W., Los Angeles, Calif. Control system for tandem rotor helicopters. 2,663,371, Dec. 22.

Maiorany, Robert T., New York, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Vernier indicating instrument. 2,663,280, Dec. 22.

Mallory, P. R., & Co., Inc., assignee: *See*—
Fetter, William G., Wood, and Holt.

Malmvik, Elof, and E. Dunér, assignors to Jonkopings Mekaniska Werkstads Aktiebolag, Jonkoping, Sweden. Centrifugal pump with sealing device. 2,663,262, Dec. 22.

Manganese Chemicals Corporation, assignee: *See*—
Babbitt, Bernard R., and Kunz.

Mankowich, Ivan, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Preparation of ketone-diarylamine condensates. 2,663,734, Dec. 22.

Manney, Charles J., Kenmore, and W. H. Devonshire, Williamsville, assignors to Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Traction chain and coupling. 2,663,347, Dec. 22.

Mansmann, Raymond P., Pittsburgh, Pa. Refrigerated truck body. 2,663,163, Dec. 22.

Marathon Corporation, assignee: *See*—
Wiles, Everett R., Meyers, and Coffman.

Marcus, William, Cleveland, Ohio. Window construction. 2,663,055, Dec. 22.

Margles, Samuel G., Brooklyn, N. Y., and A. Fabula, Hohokus, N. J., assignors to Otis Elevator Company, New York, N. Y. Moving stairway. 2,663,400, Dec. 22.

Marinelli, Joseph, Orange, assignor to Bendix Aviation Corporation, Teterboro, N. J. Solenoid operated pilot valve and main valve. 2,663,319, Dec. 22.

Marshall, John N., Bryn Mawr, Pa., assignor to Radio Corporation of America. Regulated power supply. 2,663,839, Dec. 22.

Marston, Arthur E.: *See*—
Adcock, Mack D., and Marston.

Martin, William E., Kewanee, Ill. Trailer with detachable gooseneck. 2,663,574, Dec. 22.

Masi, John, Miami, Fla. Fishing line attachment. 2,663,109, Dec. 22.

Mason, John C.: *See*—
Johnston, Blaine, and Mason.

Mathleson Chemical Corporation, assignee: *See*—
Shore, Jacob.

Mathews, Kenneth C.: *See*—
McDonald, Donald C., Mathews, and Boe.

Matthews, William D., Atlanta, and T. E. Curtis, Hampton, Ga., assignors to Southern States Equipment Corporation. Electric circuit protector. 2,663,778, Dec. 22.

May, Irving: *See*—
Slavin, Morris, Fletcher, and May.

Mayer, Joseph: *See*—
Rockhoff, Bert E., and Mayer.

Mayus, Eugene, Chicago, Ill., and W. G. See, Crown Point, Ind., said Mayus assignor to Submerged Combustion Company of America, Inc., Hammond, Ind. Rotary pump. 2,663,263, Dec. 22.

McAndrews, John J., Hempstead, N. Y. Apparatus for evaporating liquids. 2,663,683, Dec. 22.

McArthur, Donald W., Salt Lak Celty, Utah, assignor to Filmsort Inc. Cutter for film take-up magazines. 2,663,514, Dec. 22.

McBride, John V., Lebanon, assignor to The Plastic Wire & Cable Corporation, Jewett City, Conn. Sheathed electric conductor. 2,663,755, Dec. 22.

McCloy, Graham S.: *See*—
Blankenship, William G., Jr., and McCloy.

McCormack, William B., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of substituted phosphacyclopentene dihalides. 2,663,736, Dec. 22.

McCormack, William B., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Substituted phosphacyclopentene oxides and preparing them. 2,663,737, Dec. 22.

McCormack, William B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Substituted phosphacyclopentene sulfides and preparing them. 2,663,738, Dec. 22.

McCormack, William B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Substituted phosphacyclopentane oxides and preparing them. 2,663,739, Dec. 22.

McCune, Frederick S., Pittsburgh, Pa. Car dumper. 2,663,438, Dec. 22.

McCurdy, Nan W., Coral Gables, Fla. Educational toy. 2,663,096, Dec. 22.

McDonald, Donald C., Skokie, K. C. Mathews, Evanston, and R. C. Boe, Des Plaines, assignors to Cook Electric Company, Chicago, Ill. Multiple mode closed-cycle control system. 2,663,832, Dec. 22.

McGill, Lemaster C., Phillips, Tex., assignor to Phillips Petroleum Company. Scaffolding device. 2,663,597, Dec. 22.

McGraw Electric Company, assignee: *See*—
Amundson, Roald H.

McInerney, James M.: *See*—
McInerney, William K. and J. M.

McInerney, William K. and J. M., Grand Rapids, Mich. Spring pocket filling machine. 2,663,475, Dec. 22.

McKissack, Robert G., Bolton, Miss. Aerated minnow bucket. 2,663,115, Dec. 22.

McMillan, Jerry N., Colville, Wash. Boat loading device. 2,663,473, Dec. 22.

McMillin, Clifford K., Bellingham, Wash. Fish lure. 2,663,112, Dec. 22.

McNabb, Edgar M., Indianapolis, Ind. Duplicating machine. 2,663,578, Dec. 22.

Meacham, Larned A., New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transistor amplifier with conjugate input and output circuits. 2,663,766, Dec. 22.

Meder, Arthur: *See*—
Roughsedge, Robert H., and Meder.

Meffert, Emil K. E., Schmalenbek, near Hamburg, assignor to E. C. H. Will Linlermaschinenfabrik, Hamburg, Germany. Paper ruling, assembling, and stapling machine. 2,663,564, Dec. 22.

Melchior, Wilhelm A., Wilmette, and A. R. Graff, assignors to The Columbia Malting Company, Chicago, Ill. Bucket conveyer. 2,663,402, Dec. 22.

Mellinger, Edward R. and R. E., Williamsport, Pa., and D. B. Howard, Chatham, N. J., said Howard assignor to said E. R. and R. E. Mellinger. Key plug for spectator announcement systems for public events. 2,663,850, Dec. 22.

Mellinger, Ruth E.: *See*—
Mellinger Edward R. and R. E., and Howard.

Meredith Publishing Company, assignee: *See*—
Parrish, J Russell.

Mergenthaler Linotype Company, assignee: *See*—
Abbott, William B.
Hilpman, Paul.
Rossetto, Louis, and Squassoni.

Merrill, Marcellus S., and L. H. Erickson, Denver, Colo., said Erickson assignor to said Merrill. Method of and apparatus for balancing rotating bodies. 2,663,184, Dec. 22.

Messing, Hjalmar S., assignor to American Defibrator Inc., New York, N. Y. Screw conveyer and the like having interrupted flights. 2,663,405, Dec. 22.

Mesta Machine Company, assignee: *See*—
Iversen, Lorenz.

Metzner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Pin wheel feeding unit. 2,663,197, Dec. 22.

Meyer, Richard E., Falls Church, Va., and O. L. Beardsley, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army. Folding spade for gun carriages. 2,663,226, Dec. 22.

Meyers, George L.: *See*—
Wiles, Everett R., Meyers, and Coffman.

Mezzacappa, Lucy, assignee: *See*—
De Pinto, Sergio.

Mezzacappa, Salvatore, assignee: *See*—
De Pinto, Sergio.

Michalitsianos, Evangelos M., Northwood, England. Rotary pump. 2,663,264, Dec. 22.

Michelitsch, Walter, Ludwigshafen (Rhine-Oppau), assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Rheinland-Pfalz, Bundesrepublik, Germany. Purification of urea. 2,663,731, Dec. 22.

Middleton, Arthur E., Columbus, Ohio, assignor, by mesne assignments, to The Haloid Company, Rochester, N. Y. Electrophotographic plate and producing same. 2,663,636, Dec. 22.

Millar, Ronald L., Chicago, Ill., assignor to The Glidden Company, Cleveland, Ohio. Alkyd modified siloxane coating compositions. 2,663,694, Dec. 22.

Miller, Carl S., and B. L. Clark, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Heat-sensitive copying paper. 2,663,654, Dec. 22.

Miller, Carl S., and B. L. Clark, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Heat-sensitive copying paper. 2,663,655, Dec. 22.

Miller, Carl S., and B. L. Clark, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Heat-sensitive copying paper. 2,663,656, Dec. 22.

Miller, Carl S., and B. L. Clark, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Heat-sensitive copying paper. 2,663,657, Dec. 22.

Miller Company, The, assignee: *See*—
De Lancey, Ralph W.

Miller, George L.: *See*—
Hill, Irving, and Miller.

Miller, Lloyd G., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,663,035, Dec. 22.

Miller, Oram E., Willow Grove, Pa. Jewel setting tool for assembly of watch parts. 2,663,207, Dec. 22.

Miller, Paul J., Butte, Mont. Portable sink for campers' use. 2,663,392, Dec. 22.

Miller, Ralph L., assignor to Wingfoot Corporation, Akron, Ohio. Joint construction in a segmented inflatable fabric member. 2,663,659, Dec. 22.

Miller, Raymond J., Detroit, Mich. Centrifugal mold and core. 2,663,059, Dec. 22.

Milliken, Clair W., Brighton, Ill. Implement for turning litter in poultry houses. 2,663,555, Dec. 22.

Milwaukee Stamping Company, assignee: *See*—
Roginson, Ralph

Minnesota Mining & Manufacturing Company, assignee: *See*—
Miller, Carl S., and Clark.

Minnis, Bradford R.: *See*—
Huntzicker, Harry N., Dailey, and Minnis.

Mitchell, Dugald, Saltcoats, Scotland, assignor to Imperial Chemical Industries Limited. Stripping of explosive cartridges. 2,663,441, Dec. 22.

Mohr, Milton E., Jamaica, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical wave transforming system. 2,663,795, Dec. 22.

Moler, Garland W., Falls Church, Va., and H. Nassau, Philadelphia, Pa., assignors, by mesne assignments, to O. E. Szekely & Associates, Inc., Philadelphia, Pa. Illuminable structure. 2,663,107, Dec. 22.

Monorail Engineering and Construction Corporation, assignee: *See*—
Omsted, Harald.

Monsanto Chemical Company, assignee: *See*—
Bland, Marshall R., and Young.
Compton, Ell D.
Dvornikoff, Michael N., and Young.

Montenare, Anthony, Reading, Pa. Keyboard steadying device for accordions and similar instruments. 2,663,210, Dec. 22.

Moran, Ralph V., Bradford, Pa. Joint. 2,663,584, Dec. 22.

Morgan, Burton D., Loudonville, N. Y. Toe pledget. 2,663,296, Dec. 22.

Morgan, Robert L., assignee: *See*—
Thomas, Lawrence E.

Morosoff, Dimitrij A.: *See*—
Nordström, Vilhelm F. A., and Morosoff.

Morrell, Charles E.: *See*—
Odell, William W., Morrell, and Scheidine.

Morrison, Simon, assignor to S. Schwartzman, New York, N. Y. Sifter cap device for dispensing containers. 2,663,468, Dec. 22.

Moseley, Francis L., Osborn, Ohio, assignor to Collins Radio Company, Cedar Rapids, Iowa. Glide path control system. 2,663,520, Dec. 22.

Moseley, James T. W., Richmond Heights, Mo. Weed puller. 2,663,543, Dec. 22.

Mottu, André, Genthod-Bellevue, assignor to Societe Genevoise d'Instruments de Physique, Geneva, Switzerland. Device for truing the grinding wheels of grinding machines. 2,663,292, Dec. 22.

Moyer, Stanley H.: *See*—
Osborne, Russell E., and Moyer.

Mucher, George J., Rochester, assignor to Clarostat Mfg. Co., Inc., Dover, N. H. Ion trap. 2,663,815, Dec. 22.

Muffly, Glenn, Springfield, Ohio. Aircraft control. 2,663,518, Dec. 22.

Müller, Franz, Bensberg-Refrath, and L. H. Winners, Koln-Kalk, assignors to Klöckner-Humboldt-Deutz A. G., Koln (Rhine), Germany. Heat processing of fine-grained material, particularly cement raw material. 2,663,560, Dec. 22.

Müller, Franz, Bensberg-Refrath, assignor to Klöckner-Humboldt-Deutz A. G., Koln (Rhine), Germany. Apparatus for heating fine-grained material, particularly cement raw material. 2,663,561, Dec. 22.

Nabenhauer, Fred P.: *See*—
Craig, Paul N., and Nabenhauer.

Nash-Kelvinator Corporation, assignee: *See*—
Davies, Herbert L.

Nassau, Harry: *See*—
Moler, Garland W., and Nassau.

National Cash Register Company, The, assignee: *See*—
Dudis, Charles G.

National Dairy Research Laboratories, Inc., assignee: *See*—
Whitaker, Randall, and Herro.

National Lead Company, assignee: *See*—
Oppegaard, Assur G.
Stoddard, Carl K., and Wyatt.

National Steel Corporation, assignee: *See*—
Williams, Richard H.

Needle Industries Limited, assignee: *See*—
Dinham, Alfred T.

Neef, Frederick E., Jr.: *See*—
Grisé, Alfred L., and Neef.

Nelson, Seddon C., Fredericksburg, Va., assignor to American Viscose Corporation, Wilmington, Del. Liquid metering and flow indicating device. 2,663,188, Dec. 22.

Neugebauer, Wilhelm: *See*—
Reichel, Maximilian K., and Neugebauer.

Newcomb, Walter C.: *See*—
Tuttle, Fordyce E., and Newcomb.

Newhall, Donald H., Walpole, Mass. Packed piston for high-pressure cylinders. 2,663,600, Dec. 22.

Newman, Irving, Brooklyn, N. Y. Lap tray with leg engaging means. 2,663,603, Dec. 22.

New York Air Brake Company, The, assignee: *See*—
Dolch, William C.

Nieburg, Felix, Stockholm, Sweden. Fuel-distance meter. 2,663,186, Dec. 22.

Noakes, Thomas E.: *See*—
Dillman, Earnest J., and Noakes.

Nordström, Vilhelm F. A., Stockholm, and D. A. Morosoff, Enskede, Sweden, assignors, by mesne assignments, to De Laval Steam Turbine Company, Trenton, N. J. Combined gas and steam power plant. 2,663,144, Dec. 22.

North American Geophysical Co., assignee: *See*—
Cloud, Raymond T.

Novak, Ben A., Spillville, Iowa. Extension light. 2,663,793, Dec. 22.

Novy, Richard J.: *See*—
Tinsman, Jack R., Novy, and Pence.

Nye, Raymond C., Los Angeles, Calif. Article wall hanger. 2,663,530, Dec. 22.

Odell, William W., New York, and C. E. Morrell, Westfield, N. Y., and H. W. Scheidine, East Orange, N. J., assignors to Standard Oil Development Company. Preparation of carbon disulfide. 2,663,622, Dec. 22.

Oestreicher, Ernst: *See*—
Schlecht, Leo, and Oestreicher.

Ogard, Helmer, assignor to Armstrong-Bray & Co., Chicago, Ill. Articulated friction V belt and belt section. 2,663,194, Dec. 22.

Ohmart, Philip E., Dayton, Ohio, assignor to the United States of America as represented by the United States Atomic Energy Commission. Neutron detector. 2,663,802, Dec. 22.

Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Adjustable wiping blade. 2,663,043, Dec. 22.

Olander, Kemuel B., Minneapolis, Minn. Ironing table. 2,663,101, Dec. 22.

Olander, Kemuel B., Minneapolis, Minn. Ironing table. 2,663,102, Dec. 22.

Oliver, Bernard M., Palo Alto, Calif., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor signal translating device. 2,663,830, Dec. 22.

Oliver, Russell L., Philadelphia, Pa. Cigarette dispenser. 2,663,605, Dec. 22.

Olsen, Ernest R., Grand Haven, Mich. Piston ring. 2,663,602, Dec. 22.

Olson, Oscar J., Seattle, Wash. Outlet box with overlapped knockouts. 2,663,454, Dec. 22.

Olson, Robert N.: *See*—
Allen, Harry J., and Olson.

Omsted, Harald, Pasadena, assignor to Monorail Engineering and Construction Corporation, Los Angeles, Calif. Safety device for monorail cars. 2,663,267, Dec. 22.

O'Neil, Edgar: *See*—
Tuttle, Clifton M., and O'Neil.

Opel, Lawrence G.: *See*—
Harding, William R., and Opel.

Oppegaard, Assur G., Fredrikstad, Norway, assignor to National Lead Company, New York, N. Y. Reduction of iron ores. 2,663,632, Dec. 22.

Organon Inc., assignee: *See*—
Homan, Jan D. H.

Ornitz, Martin N., and R. H. English, assignors, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa. Furnace conveyer element. 2,663,558, Dec. 22.

Ory, Edward W., assignor to The Englander Company, Inc., Chicago, Ill. Seat. 2,663,360, Dec. 22.

Osborne, Russell E., and S. H. Moyer, Mill Valley, Calif. Corrugating machine. 2,663,351, Dec. 22.

Otis Elevator Company, assignee: *See*—
Margles, Samuel G., and Fabula, Tucker, Benjamin W., Jr.

Otten, Philip S., New Rochelle, assignor to The Griscom Russell Company, New York, N. Y. Spiral heat exchanger. 2,663,549, Dec. 22.

Ouellet, Albert F., New York, N. Y. Ship construction for reducing drag. 2,663,276, Dec. 22.

Outers Laboratories, Inc., assignee: *See*
Johnson, Clarence J.

Overholt, Lyle E.: *See*—
Bieber, Frederick J., and Overholt.

Owen, Robert G., Sherman Oaks, Calif. Decorative streamer. 2,663,106, Dec. 22.

Paige, Richard E., New York, N. Y. Expansible carton and detachable cover. 2,663,487, Dec. 22.

Paige, Richard E., New York, N. Y. Tubular container for articles of merchandise. 2,663,489, Dec. 22.

Paillet, Robert, Paris, assignor to Société Anonyme dite: Societe des Piles Wonder, Saint-Ouen (Seine), France. Flat cell electric battery. 2,663,750, Dec. 22.

Palitti, Ruth N., San Francisco, Calif. Curl holder. 2,663,302, Dec. 22.

Palmer, George J., Long Beach, Calif. Discharge device for can assorting machines. 2,663,420, Dec. 22.

Palmer, Vernon J., and J. S. Judell, assignors to Bruner Corporation, Milwaukee, Wis. Valve for water conditioning devices. 2,663,314, Dec. 22.

Park, Robert, Cohasset, Minn. Treating popcorn. 2,663,645, Dec. 22.

Parke, Davis & Company, assignee: *See*—
Gailliot, Paul, and Robert

Parker, Orval, Canoga Park, Calif. Egg weighing and grading apparatus. 2,663,422, Dec. 22.

Parker, Robert P.: *See*—
Conroy, Edward A., and Parker.

Parker, Robert P., Somerville, D. R. Seeger, Bound Brook, and E. Kuh, New Brunswick, N. J., assignors to American Cyanamid Company, New York, N. Y. Phosphoric acid derivatives and preparing the same. 2,663,705, Dec. 22.

Parks-Cramer Company, assignee: *See*
Holtzclaw, Grover B.

Parmesan, Daniel J: *See*
Lagrange, Victor E., and Parmesan.

Parrish, J Russell, assignor to Meredith Publishing Company, Des Moines, Iowa. Multicolor job or proof press. 2,663,254, Dec. 22

Parrish, J Russell, assignor to Meredith Publishing Company, Des Moines, Iowa. Multicolor proof press. 2,663,255, Dec. 22.

Patent License Corporation, assignee: *See*
Arenberg, Albert L.

Paterwic, Edward M.: *See*
Heckman, George J., and Paterwic.

Patrick, Walter A., Baltimore, Md. Deoxodizing water. 2,663,688, Dec. 22

Patty, Thomas A., Miami, Fla. Sheet assembling machine. 2,663,019, Dec. 22

Payne, Abner C., assignee: *See*
Logan, David J

Pedersen, Arthur A., Orinda, Calif. Garment hanger. 2,663,471, Dec. 22.

Pelton Water Wheel Company, The, assignee: *See* —
Bacchi, Ray.

Pence, Richard O.: *See*—
Tinsman, Jack R., Novy, and Pence.

Pennsylvania Salt Manufacturing Company, The, assignee: *See*
Benbury, George W., and Ingham.

Perfect Knit Togs, Inc., assignee: *See*
Aaronson, Harry.

Perloff, John W., and L. Jacobson, Painesville, assignors to Diamond Alkali Company, Cleveland, Ohio. Coated calcium carbonate particles. 2,663,695, Dec. 22.

Permanente Foundation, The, assignee: *See*
Vrat, Ved.

Perrotti Anthony, Brooklyn, N Y Reinforcing patch applicator. 2,663,445, Dec. 22

Peters, Clifford M.: *See*—
Garrett, Henry C., and Peters.

Peterson, Kenneth R., Brooklyn, N. Y. Receptacle for safety razor blades. 2,663,079, Dec. 22

Peterson, Oscar L., Prentice, Wis. Battery cable clamp. 2,663,854, Dec. 22.

Peterson, Roy V., Tacoma, Wash. Veneer sheet patching machine. 2,663,332, Dec. 22.

Petrolite Corporation, assignee: *See*
Bailey, Edmund I.

Petterson, Reinhardt, Whitestone, N. Y., and L. G. Weygandt, Jenkintown, Pa., assignors to Hewitt-Robins Incorporated, Buffalo, N. Y. Self-braking conveyer drive. 2,663,404, Dec. 22.

Pew, Preston F., assignor to Inflico Incorporated, Tucson, Ariz. Filter surface wash nozzle. 2,663,591, Dec. 22.

Pfistershammer, Josef, Vienna, Austria. Joining sheet metal or the like. 2,663,072, Dec. 22.

Phelps, Arthur R., Portland, Oreg. Telescopic dumping truck. 2,663,439, Dec. 22

Philips Laboratories, Inc., assignee: *See* —
Espersen, George A.
Jamisen, Noel C., and Kohler.

Phillips Petroleum Company, assignee: *See*
De Boisblanc, Deslonde R.
Doan, Richard L.
Kilpatrick, Myron O.
McGill, Lemaster C.

Phototypograph Corporation, The, assignee: *See*—
Drillick, Jacob H

Piennol, Jaime, Zandberg, Zillebeke-lez-Ypres, Belgium. Time-advanced actuating device for weaving loom stop-motions. 2,663,329, Dec. 22.

Pieper, Alphonse F., Brighton, N. Y. Strand guide. 2,663,516, Dec. 22.

Pierce, Alfred F., assignor to American Manufacturing Company, Inc., Tacoma, Wash. Sheet charging apparatus. 2,663,434, Dec. 22.

Pierce, Orestes A., New York, N. Y. Flying feather toy. 2,663,119, Dec. 22.

Pierce, William J., Southfield Township, Oakland County, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Method of and composition for plating copper. 2,663,684 Dec 22.

Plitz, John F., Wilmer, Ala. Means for extricating motor vehicles from mudholes 2,663,503, Dec. 22.

Pines, Herman, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Noncatalytic condensation of aromatic compounds with unsaturated organic compounds. 2,663,724, Dec. 22.

Pines, Herman, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Dehydrogenation of a naphthenic hydrocarbon containing a geminal carbon atom. 2,663,746, Dec. 22.

Pipelife, Inc., assignee: *See*—
Curtis, Arvel C.

Piper, Frank R., and J. M. Gardner, Fairfax, assignors to West Point Manufacturing Company, Shawmut, Ala. Tensioning apparatus. 2,663,118, Dec. 22.

Pistey, John M., Fairfield, Conn., assignor to General Electric Company. Lamp locking lampholder for tubular lamps. 2,663,851, Dec 22.

Pittsburgh Waterproof Company, assignee: *See*—
Schultheis, Louis J

Plastic Wire & Cable Corporation, The, assignee: *See*—
McBride, John V.

Platt, William, Reading, Mass., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Preparing finely divided calcium silicate. 2,663,619, Dec. 22

Pons, John A., assignor to Huffman Full Fashioned Mills, Inc., Morganton, N. C. Toe structure for full-fashioned hosiery 2,663,175, Dec. 22.

Posson, Donald G., Needham, Mass. Elastic belt and support therefor 2,663,027, Dec 22

Posture Research Institute, Inc., assignee: *See*—
Wood, Glenn D.

Potter, Thomas W.: *See*
Bissell, William T., and Potter

Price, Nathan C., Los Angeles, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Fuel system for ram jets. 2,663,140, Dec. 22

Price, Nathan C., St. Helena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Aircraft power plant installation 2,663,517, Dec. 22

Pritchard, J. F. & Co., assignee: *See*—
Spangler, Carl V.

Punch Engineering Pty Limited, assignee: *See*—
Skillman, Thomas S

Purolator Products, Inc., assignee: *See*
Layte, Ralph R.

Queen Stove Works, Inc., assignee: *See*—
Laramy, Richard C.

Radio Corporation of America, assignee: *See*—
Hershberger, William D
Herzog, Gerald B
Law, Harold B
Marshall, John N

Railling, Wilford E., Penns Grove, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Coating with polyethylene 2,663,652, Dec. 22.

Raisbeck, Gordon, Morristown, and R. L. Wallace, Jr., Plainfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Low-input impedance transistor circuits. 2,663,796, Dec. 22.

Ramsell, William H., Palo Alto, Calif., and E. A. Armstrong, Western Springs, Ill. Counting equipment. 2,663,495, Dec. 22.

Ramsey, Grover S., Berkeley, assignor to Grove Regulator Company, Oakland, Calif Combination pressure reducing regulator and relief valve. 2,663,121, Dec. 22.

Ranseen, Emil L., assignor to H. L. Feigenholtz, Chicago, Ill. Optical device for correlating observer reading arousal valves. 2,663,218, Dec. 22.

Ransome, Tallent H., Oakland, Calif. Heater for supplying hot gases. 2,663,362, Dec. 22.

Rapp, Howard B., Santa Ana, and L. E. Heckathorn, Garden Grove, assignors to Towner Manufacturing Co., Santa Ana, Calif. Power-lift tractor hitch for earth working implements. 2,663,239, Dec. 22.

Raymond Concrete Pile Company, assignee: *See*—
Hart, Linton

Redmond, John A., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heat-treatment apparatus. 2,663,789, Dec. 22.

Reed Roller Bit Company, assignee: *See*—
Schmid, Paul E.

Reese, John E.: *See*—
Calhoun, George M., and Reese.

Reeves, Alec H., and C. D. White, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Stabilized crystal triode system. 2,663,767, Dec. 22.

Reichel, Howard G.: *See*—
Hensgen, Bernard T., and Reichel.

Reichel, Maximilian K., and W. Neugebauer, Wiesbaden-Biebrich, Germany, assignors to Keuffel & Esser Comp., Hoboken, N. J. Photographically light-sensitive silver halide-dinzide colloid layers. 2,663,640, Dec. 22.

Reid, John D.: *See*—
Daul, George C., Reid, and Reinhardt.

Reinhardt, Robert M.: *See*—
Daul, George C., Reid, and Reinhardt.

Reiter, Daniel I., New York, N. Y. Handle end holder and installation. 2,663,342, Dec. 22.

Remington Arms Company, Inc., assignee *See*—
Catlin, Robert T., Cummings, Eckstein, and Hickman
Collins, William W.
Kenney, Joseph F.
Reynolds, Warren S., Turner, and Frandsen.

Rende, Jiustino, New Rochelle, N. Y. Flexible cleaner for car washing machines. 2,663,041, Dec. 22

Rentschler, Karl, assignor to Alfred Gauthier G. m. b. H., Calmbach (Enz), Germany. Camera shutter incorporating flash synchronizing mechanism. 2,663,233, Dec 22.

Republic Steel Corporation, assignee: *See*—
Crowley, Henry L., Graham, and Bendler.

Research Corporation, assignee: *See*—
Baumrucker, William, Jr.

Reuter, Louis F., and R. D. Smith, Elyria, Ohio, assignor to The B. F. Goodrich Company. Pyrolysis of diacyl cyanides. 2,663,725, Dec. 22.

Reynolds Metals Company, assignee: *See*—
Sebell, Harry

Reynolds, Warren S., Westport, J. R. Turner, Stratford, and L. C. Frandsen, Trumbull, assignors to Remington Arms Company, Inc., Bridgeport, Conn. Loading machine for shells, including automatic inspection means 2,663,421, Dec 22

Rich, Theodore A., Schenectady, N. Y., assignor to General Electric Company. Electrical recorder. 2,663,610, Dec. 22

Richards, William F.: *See*—
Richards, William H. and W. F.

Richards, William H. and W. F., Rehoboth, Del. Self adjusting mophead 2,663,042, Dec. 22.

Richardson, Henry M.: *See*—
Hess, Carl B., and Richardson

Richmond, Nelson R., Thompsonville, assignor to United Aircraft Corporation, East Hartford, Conn. Reversible-pitch propeller 2,663,373, Dec. 22.

Riedel, Erich, assignor to Brueckenbau Flender G. m. b. H., Dusseldorf, Germany. Installation for dewatering slimes. 2,663,427, Dec 22

Ritter, George F., Toledo, Ohio. Abrasive tool. 2,663,071, Dec. 22.

Robert, Jean: *See*—
Gailliot, Paul, and Robert.

Roberts, Richard B.: *See*—
Heydenburg, Norman P., and Roberts

Robertson, Nat C., Corpus Christi, Tex., assignor to Celanese Corporation of America. Extractive distillation of allyl alcohol from n propyl alcohol. 2,663,680, Dec 22

Robinson, Ralph, Wauwatosa, assignor to Milwaukee Stamping Company, West Allis, Wis. Can top piercing tool for opening and venting in one operation. 2,663,076, Dec. 22

Rockhoff, Bert E., Grosse Pointe Farms, and J. Mayer, assignors to Detroit Steel Products Company, Detroit, Mich. Machine for making frames. 2,663,204, Dec 22

Roddey, Otha C.: *See*—
Cardwell, Milton M., Roddey, and Tyson

Rode, John E., Hillsboro, N. Dak Cotton chopping machine 2,663,237, Dec. 22

Rodenhuis, Klaas: *See*—
Diemer, Gesinus, and Rodenhuis.

Rodgers, Henry W., Grinnell, Iowa Tape dispenser 2,663,510, Dec. 22.

Roe, A. V., Canada Limited, assignee: *See*—
Kenst, Francis H.

Roehm, William A., Rockville Centre, assignor to Royal Lace Paper Works, Inc., Brooklyn, N. Y. Dolly package 2,663,415, Dec. 22.

Rohdin, Howard A., Glen Ridge, N. J. Heat sealer. 2,663,353, Dec. 22.

Romain, Fred, Chester, Mont. Motor vehicle parking elevator. 2,663,446, Dec. 22

Romano, Francesco, New York, N. Y. Micrometer gauge. 2,663,087, Dec. 22.

Romick, William L., Ferndale, assignor to Detroit Automotive Products Corporation, Detroit, Mich. Dual axle unit for motor vehicles. 2,663,571, Dec. 22.

Rónay, Gezà S., Oakland, and J. R. Vinograd, Berkeley, assignors to Shell Development Company, Emeryville, Calif. Polymerizing certain unsaturated compounds in an aqueous system. 2,663,701, Dec. 22.

Rose, Hilton W., Arlington, Va. Apparatus and method of administering parenteral solutions. 2,663,298, Dec. 22.

Rosenbaum, Joe B.: *See*—
Lloyd, Rex R., Rosenbaum, and Homme.

Rosenberg, Leon T., Wauwatosa, and J. L. Kuehlthau, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamoelectric machine having a ventilation shield in the air gap. 2,663,808, Dec. 22.

Rosin, Seymour, and A. M. Bottalico, assignors to Farrand Optical Co., Inc., New York, N. Y. Three-element objective lens with reduced spherical aberration and chromatic difference of spherical aberration. 2,663,222, Dec. 22.

Ross, John P.: *See*—
Ross, Robert G., Jr., and J. P.

Ross, Robert G., Jr., and J. P., Charlotte, N. C. Article-elevating caster mounting. 2,663,048, Dec. 22.

Rossetto, Louis, Flushing, and G. F. Squassoni, Corona, N. Y., assignors to Mergenthaler Linotype Company. Typographical distributing machine. 2,663,406, Dec. 22.

Rossire, Francis H. S., Leonia, assignor to Bendix Aviation Corporation, Teterboro, N. J. Engagement station for automatic pilots. 2,663,519, Dec. 22.

Rosswall, Axel E., Lidingo, Sweden. Device for counting leaves or sheets in piles or packets. 2,663,567, Dec. 22.

Rotary Hoes Limited, assignee: *See*—
Howard, Arthur C.

Roth, Harold H., Bay City, and H. B. Smith, assignors to The Dow Chemical Company, Midland, Mich. Purification of sulfonated alkenyl aromatic resins. 2,663,700, Dec. 22.

Rott, André, Wilrijk-Antwerp, assignor to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium. Production of reversal images. 2,663,641, Dec. 22.

Rottig, Walter: *See*—
Traeger, Bruno, and Rottig.

Roughsedge, Robert H., Ramsey, and A. Meder, Carlstadt, N. J., assignors to Celanese Corporation of America, New York, N. Y. Apparatus for winding. 2,663,067, Dec. 22.

Royal Lace Paper Works, Inc., assignee: *See*—
Roehm, William A.

Rubano, Aldo T., New York, N. Y. Mounting for easels 2,663,531, Dec. 22.

Rubber-Stichting, assignee: *See*—
Ten Have, Petrus

Ruge, Arthur C., Cambridge, Mass., assignor to Baldwin-Lima-Hamilton Corporation. Extensometer. 2,663,085, Dec. 22.

Ruhrchemie Aktiengesellschaft, assignee: *See*—
Traeger, Bruno, and Rottig.

Rundell, Harwood F., assignor to Aeroquip Corporation, Jackson, Mich. Pressure pickup element. 2,663,781, Dec. 22.

Ruthven, William, Oak Park, assignor to Ajax Buff Company, Chicago, Ill. Buff 2,663,125, Dec. 22.

Rutter, Alvah E., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Disk harrow. 2,663,132, Dec. 22.

Ryan Aeronautical Co., The, assignee: *See*—
Vandermeer, Will.

Safety Car Heating and Lighting Company, Inc., The, assignee: *See*—
Strobell, John D.

Samaras, Stephen, assignor to Samaras Valve Corporation, Oakland, Calif. Float valve structure. 2,663,311, Dec. 22.

Samaras Valve Corporation, assignee: *See*—
Samaras, Stephen.

Sanders, Ellsworth E.: *See*—
Sanders, Ernest E., G. E., and Ellsworth E

Sanders, Ernest E., G. E., and Ellsworth E., Detroit, Mich. Frozen food cabinet. 2,663,158, Dec. 22.

Sanders, Garland E.: *See*—
Sanders, Ernest E., G. E., and Ellsworth E.

Sauer, Louis E., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reactor. 2,663,828, Dec 22.

Sauerman, Ernst C., and A. J. Hopkins, Chicago, Joseph Erwood, Crystal Lake, and John Erwood, Park Ridge, Ill., said Joseph Erwood and said John Erwood, assignors to Address-It Corporation, Chicago, Ill. Selective hectographic printing machine. 2,663,253, Dec. 22.

Saunders, William R.: *See*—
Hull, David C., and Saunders.

Sautter, Alton F.: *See*—
Kersten, Samuel, and Sautter.

Savage, Reuben T., Ridley Park, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Apparatus for handling granular material. 2,663,593, Dec. 22.

Savage, Reuben T., Ridley Park, and E. H. Ivey, Jr., Glenolden, Pa., assignors to Houdry Process Corporation, Wilmington, Del. Processing hydrocarbons. 2,663,677, Dec. 22.

Savitz, Christian W., South Euclid, assignor to Air-Maze Corporation, Cleveland, Ohio. Rotary electrostatic filter 2,663,380, Dec. 22.

Schaefer, George W., Quincy, Mass. Tool for removing address-o-graph type strips. 2,663,250, Dec. 22.

Schaper, Hans, assignor to Anker-Werke, A. G., Bielefeld, Germany. Dual purpose sewing machine. 2,663,607, Dec. 22.

Schauer, Wilbert E., Milwaukee, Wis. Swinging drawer cabinet. 2,663,608, Dec. 22.

Scheeline, Harold W.: *See*—
Odell, William W., Morrell, and Scheeline.

Scheldorfer, Lilliam I., Fort Lauderdale, Fla. Operating device for hookless or slide fasteners. 2,663,588, Dec. 22.

Schenkelberger, Frank J., North Olmsted, assignor to The Baker-Raulang Company, Cleveland, Ohio. Carrier for industrial elevating trucks. 2,663,443, Dec. 22.

Schenley Industries, Inc., assignee : *See*—
Levy, Gabor B.

Schilling, Clarence J., Allentown, Pa., assignor to Air Products, Incorporated. Defrosting gas separation systems. 2,663,168, Dec. 22.

Schlecht, Leo, and E. Oestreicher, Ludwigshafen (Rhine), assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Rheinland-Pfalz, Bundesrepublik Germany. Production of metal powders. 2,663,630, Dec. 22.

Schleifer, Carlo, Milan, Italy. Rectilinear combing machine for working textile fibers founded on the Heilmann principle. 2,663,053, Dec. 22.

Schmid, Paul E., assignor to Reed Roller Bit Company, Houston, Tex. Impact hammer element. 2,663,395, Dec. 22.

Schmitz, Mattheus J., and R. B. Buchner, Hilversum, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Time-limiting circuit arrangement. 2,663,763, Dec. 22.

Schultheis, Louis J., assignor to Pittsburgh Waterproof Company, Pittsburgh, Pa. Cloth attaching device for ironer rolls. 2,663,074, Dec. 22.

Schultz, Arthur D., Mayfield Heights, and F. C. Schwendler, assignors to Eaton Manufacturing Company, Cleveland, Ohio. Closure cap. 2,663,456, Dec. 22.

Schumacher, Frank A., Erie, Pa., assignor to General Electric Company. Refrigeration evaporator. 2,663,161, Dec. 22.

Schurecht, Harry G., Detroit, Mich., assignor to Champion Spark Plug Company, Toledo, Ohio. Ornamental crystalline glaze. 2,663,658, Dec. 22.

Schutt, Arthur J., Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich. Temperature control valve. 2,663,499, Dec. 22.

Schwabe, Herman, New York, N. Y. Lasting machine. 2,663,034, Dec. 22.

Schwaneke, Fred C., assignor to Dormeyer Corporation, Chicago, Ill. Power mixer unit. 2,663,552, Dec. 22.

Schwartz, Hal H., Mill Valley, Calif., assignor, by mesne assignments, to Vibra-Bath Corporation. Pneumatic agitator for washing machines. 2,663,178, Dec. 22.

Schwartzman, Sam, assignee : *See*—
Morrison, Simon.

Schweigler, Fred R., Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. Switch mechanism for automobile clocks. 2,663,769, Dec. 22.

Scott-Atwater Manufacturing Co., Inc., assignee : *See*—
Armstrong, Daniel A., Carlson, and Walz.

Scott, Henry L., Beuchel, assignor to Brown-Forman Distillers Corporation, Louisville, Ky. Yeast fermentation process. 2,663,667, Dec. 22.

Scott, Lloyd H., Chagrin Falls, assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Centrifugal and one-way clutch. 2,663,397, Dec. 22.

Scott, Richard H., Hale, and A. S. Hayward, Altrincham, assignors to Linotype and Machinery Limited, London, England. Typographical composing machine. 2,663,408, Dec. 22.

Searle, G. D., & Co., assignee : *See*
Burtner, Robert R.

Searle, Norman E., and C. W. Todd, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Haloarylhydroxyalkyl-ureas. 2,663,729, Dec. 22.

Sebell, Harry, Syracuse, N. Y., assignor to Reynolds Metals Company, Richmond, Va. Can. 2,663,455, Dec. 22.

Sebok, Frank, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Clamp arrangement for connecting tubular members. 2,663,582, Dec. 22.

See, Walter G. : *See*—
Mayus, Eugene, and See.

Seeger, Doris R. : *See*—
Parker, Robert P., Seeger, and Kuh.

Segelhorst, August L., Taft, and M. F. Spurlock, Bakersfield, Calif. Liquid sampling device. 2,663,192, Dec. 22.

Semon, Waldo L., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Leaf or vegetative fertilizer. 2,663,629, Dec. 22.

Sennholtz, Charles E., Chicago, Ill. Rotary impact hammer for pulverizers. 2,663,505, Dec. 22.

Serpas, Ralph J., Minneapolis, Minn. Pulp beater or disintegrator. 2,663,228, Dec. 22.

Servel, Inc., assignee : *See*—
Simpson, Walter M.

Shaffer, John E., Brandon, Fla. Sliding box cover. 2,663,457, Dec. 22.

Shapcott, Walter E. : *See*—
Jahn, Marion C., Shapcott, and Smith.

Sharples Corporation, The, assignee : *See*—
Ayres, Arthur U.

Shaw-Walker Company, The, assignee : *See*—
Straus, Lois K.

Shearer, Newton H. : *See*—
Coover, Harry W., Jr., Dickey, and Shearer.

Sheffield Corporation, The, assignee : *See*—
Laemmel, Charles H.

Shell Development Company, assignee : *See*—
Ewell, Robert B.
Rónay, Gezâ S., and Vinograd.

Shepard, David H., Falls Church, assignor to Intelligent Machines Research Corporation, Arlington, Va. Apparatus for reading. 2,663,758, Dec. 22.

Shinn, Guy C., Hamilton, assignor of one-half to C. T. Gautier, Hamilton County, Tex. Convertible trailer. 2,663,573, Dec. 22.

Shirk, Robert M., assignor to Houdry Process Corporation, Wilmington, Del. Insulated slip-joint device. 2,663,580, Dec. 22.

Shore, Jacob, Buffalo, N. Y., assignor to Mathieson Chemical Corporation. Miticidal dihydrazide composition. 2,663,664, Dec. 22.

Shull, Harrison J., assignor to J. B. Youmans, trustee for Vanderbilt Associates, Nashville, Tenn. Ileostomy pouch holder and skin protector. 2,663,299, Dec. 22.

Shulton, Inc., assignee : *See*—
Joffre, Stephen P.

Sigvathsen, Paul A., Minneapolis, Minn. Attachment for the handle of driven tool-equipped flexible shafts. 2,663,336, Dec. 22.

Sikorsky, Igor I., Bridgeport, assignor to United Aircraft Corporation, East Hartford, Conn. Variable pitch control of helicopter coaxial rotors. 2,663,372, Dec. 22.

Simon, Forrest C. : *See*—
Hutchins, Ralph P., and Simon.

Simpson, Robert E., New Rochelle, N. Y. Illuminated drinking glass. 2,663,866, Dec. 22.

Simpson, Walter M., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Absorption refrigeration. 2,663,165, Dec. 22.

Sindzinski, Willy K., Berlin, and W. F. Hamm, Berlin-Wittenau, Germany, assignors to International Standard Electric Corporation, New York, N. Y. Unloader for belt conveyers. 2,663,403, Dec. 22.

Sjerslee, Maurice T., Braddock, N. Dak. Cushioning means for dump rakes. 2,663,135, Dec. 22.

Skillman, Thomas S., Mosman, near Sydney, New South Wales, assignor to Punch Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia. Article vending system. 2,663,398, Dec. 22.

Skinner, Robert S., Birmingham, Ala. Water bicycle. 2,663,278, Dec. 22.

Slavin, Morris, East Setauket, N. Y., M. H. Fletcher, Alexandria, Va., and I. May, Washington, D. C., assignors to United States of America as represented by the United States Atomic Energy Commission. Transmission fluorimeter. 2,663,801, Dec. 22.

Sloan Valve Company, assignee : *See*—
Filliung, Jacques J.

Smart, Dorothy D., Highland Park, Ill. Variable volume baking device. 2,663,449, Dec. 22.

Smith, Dennis W. : *See*—
Jahn, Marion C., Shapcott, and Smith.

Smith, Donald R., assignee : *See*—
Van Loon, Herbert A.

Smith, Hugh B. : *See*—
Roth, Harold H., and Smith.

Smith, James F., Glendale, Calif. Parachute pack. 2,663,525, Dec. 22.

Smith, Kline & French Laboratories, assignee : *See*—
Craig, Paul N., and Nabenhauer.

Smith, Lester L., Peoria, Ill. Ventilator structure. 2,663,246, Dec. 22.

Smith, Prevost F., San Diego, Calif. Parachute flap. 2,663,524, Dec. 22.

Smith, Richard D. : *See*—
Reuter, Louis F., and Smith.

Smole, Jack F., Cleveland Heights, and A. Collier, Cleveland, assignors, by mesne assignments, to Lempco Products, Inc., Bedford, Ohio. Expandable hone. 2,663,124, Dec. 22.

Snell, Maurice S., Cranham, assignor to Dowty Equipment Limited, Cheltenham, England. Solenoid magnet. 2,663,826, Dec. 22.

Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Self-aligning quick disconnect coupling. 2,663,315, Dec. 22.

Snyder Oil Tool Corporation, assignee : *See*—
Snyder, Robert E.

Snyder, Robert E., Pasadena, Calif., assignor, by mesne assignments, to Snyder Oil Tool Corporation. Accumulator. 2,663,320, Dec. 22.

Soave, John G., assignor to Waldes Kohinoor, Inc., Long Island City, N. Y. Machine for applying end stops to slide fasteners. 2,663,018, Dec. 22.

Société Anonyme dite : Societe des Piles Wonder, assignee : *See*—
Paillet, Robert.

Societe Genevoise d'Instruments de Physique, assignee : *See*—
Motta, André.

Societe Rateau (Societe Anonyme), assignee : *See*—
Waeselynck, Raymond F. M.

Society Machines Chambon, assignee : *See*—
Chambon, Louis J.

Society Refroidisseur Trepaud S. A. R. L., The, assignee : *See*—
Trépaud, Georges.

Socony-Vacuum Oil Company, Incorporated, assignee : *See*—
Barnes, Brunner C.
Francis, Alfred W., and Johnson.
Lukasiewicz, Sigmund J., and Denton.

Sommers, Paul H., Montgomery, Ala. Means to facilitate the laying of masonry units. 2,663,182, Dec. 22.

Sorensen, Carl P., Chicago, Ill. Safety locking device for manually operated circuit breakers. 2,663,768, Dec. 22.

Soussloff, Dimitri G., Warwick, R. I., assignor to Universal Winding Company, Boston, Mass. Winding machine. 2,663,507, Dec. 22.

Southerland, Francis M., Mebane, N. C. Hosiery board. 2,663,469, Dec. 22.

Southern States Equipment Corporation, assignee : *See*—
Matthews, William D., and Curtis.

Spangler, Carl V., Pittsburgh, Pa., assignor to J. F. Pritchard & Co., Kansas City, Mo. Storing gases. 2,663,626, Dec. 22.

Specialties Development Corporation, assignee : *See*—
Grant, Harry C., Jr.

Spiegelhalter, William G., Erie, Pa., assignor to General Electric Company. Insulating structure and assembling. 2,663,448, Dec. 22.

Spoden, Hal T., assignee : *See*—
Hill, Elvin.

Sperney, George C., Chicago, Ill., assignor to Birtman Electric Company. Thread guide and needle clamping member for sewing machines. 2,663,274, Dec. 22.

Spring Machinery Company, assignee : *See*—
Gail, Charles H.

Spurlock, Merrill F. : *See*—
Segelhorst, August L., and Spurlock.

Squassoni, Gino F. : *See*—
Rossetto, Louis, and Squassoni.

Staiger, Kurt : *See*—
Krautter, Willy F., Kamm, and Staiger.

Standard Oil Company, assignee : *See*—
Dinerstein, Robert A.
Kalinowski, Mathew L.
Krause, Jack H., and Brown.

Standard Oil Development Company, assignee : *See*—
Cardwell, Milton M., Roddey, and Tyson.
Drout, William M., Jr.
Hogin, David R.
Kraus, Charles A., and Young.
Odell, William W., Morrell, and Scheeline.
Wilson, Samuel W.
Wilson, Samuel W., and Delaune.

Standard Register Company, The, assignee : *See*—
Davidson, John T.
Metzner, Albert W.
Zimmerman, Jerome G.

Stanley Home Products, Inc., assignee : *See*—
Bagley, John F., Jr.

Stein, Robert A., assignor to The Globe Industries, Inc., Dayton, Ohio. End bell or end bracket for motors. 2,663,810, Dec. 22.

Steinmetz, Alfred A : *See*—
Wells, Philip H., Steinmetz, and Cannon.

Stel, Marinus : *See*—
Bloem, Herman, and Stel.

Stevens, Horace D., Sarasota, Fla., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Winding apparatus. 2,663,511, Dec. 22.

Stirn, Frank E., Pearl River, and A. S. Taylor, Spring Valley, assignors to American Cyanamid Company, New York, N. Y. Method and machine for making capsules. 2,663,128, Dec. 22.

Stoddard, Carl K., Westfield, and J. L. Wyatt, New Brunswick, N. J., assignors to National Lead Company, New York, N. Y. Production of titanium metal. 2,663,634, Dec. 22.

Stonesifer, William J., Taneytown, Md. Cattle and hog oiler. 2,663,284, Dec. 22.

Stratton, Arthur T., Murrysville, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Protective device. 2,663,776, Dec. 22.

Straus, Lois K., Great Neck, N. Y., assignor to The Shaw-Walker Company, Muskegon, Mich. Elapsed time computer. 2,663,497, Dec. 22.

Strezynski, George J., Poughkeepsie, and F. E. Lawatsch, Kingston, assignors to The De Laval Separator Company, Poughkeepsie, N. Y. Rice bran oil process. 2,663,717, Dec. 22.

Strezynski, George J., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Clarification of distillery slop and the like. 2,663,718, Dec. 22.

Strobell, John D., assignor to The Safety Car Heating and Lighting Company, Inc., New Haven, Conn. Air conditioning system. 2,663,155, Dec. 22.

Stuellein, William H. : *See*—
MacNeil, John B., Stuellein, and Horn.

Subluskey, Lee A., assignor to Hercules Powder Company, Wilmington, Del. Preparation of nitrilotripropionamide. 2,663,733, Dec. 22.

Submerged Combustion Company of America, Inc., assignee : *See*—
Mayus, Eugene, and See.

Sulzer, Georg, assignor to Ciba Limited, Basel, Switzerland. Treating wool. 2,663,616, Dec. 22.

Sun Chemical Corporation, assignee : *See*
Armatys, Edward F.

Sutton, Stanford M. : *See*—
Carr, James A., Haskell, Sutton, and Walter.

Swain, Joseph G., assignor to Wingfoot Corporation, Akron, Ohio. Wheel structure. 2,663,592, Dec. 22.

Swift & Company, assignee : *See*—
Hensgen, Bernard T.
Hensgen, Bernard T., and Reichel.
Van Dolah, Delos B.

Switches, Inc., assignee : *See*—
Wolf, Walter A.

Sylvania Electric Products Inc., assignee : *See*—
Homer, Horace H.

Szekely, G. E., & Associates, Inc., assignee : *See*—
Mober, Garland W., and Nassau.

Tanner, Theodore L. : *See*—
Insley, Norman, and Tanner.

Tasker, Raymond B., Sepulveda, assignor to Gilfillan Bros., Inc., Los Angeles, Calif. Sweep limiter in radar indicating system. 2,663,868, Dec. 22.

Tatem, John A., assignor to G. W. B. Electric Furnaces Limited, Dudley, England. Temperature control apparatus for electrode type boilers. 2,663,788, Dec. 22.

Taves, Milton A : *See*—
Filar, Leo J., and Taves.

Taylor, Arthur S. : *See*—
Stirn, Frank E., and Taylor.

Taylor & Challen Limited, assignee : *See*—
Challen, Henry D.

Taylor, James Y., Garland, Tex. Indicating optical image projection apparatus for projectors. 2,663,220, Dec. 22

Taylor Sales Engineering Corporation, assignee : *See*—
Hasselwood, Willis E.

Ten Have, Petrus, Wijk Maastricht, assignor to Rubber-Stichting, Delft, Netherlands. Aqueous coating compositions from chlorinated emulsifier-stabilized latex. 2,663,747, Dec. 22.

Terp, Norman T : *See*—
Illian, Douglas F., and Terp.

Te Strake, Lambertus, Deurne, Netherlands. Flat warp-knitting machine. 2,663,173, Dec. 22.

Teves, Marten C., and T. Tol, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electron-optical image intensifier. 2,663,814, Dec. 22.

Texas Company, The, assignee : *See*—
Dilworth, John P.
Eckert, George W.

Thomas, David L. : *See*—
Clavier, André G., and Thomas.

Thomas, Lawrence E., assignor of 33⅓ per cent to C. L. Ball and 33⅓ per cent to R. L. Morgan, Seattle, Wash. Installation of underground transmission pipe. 2,663,323, Dec. 22.

Thomson Electric Company, The, assignee : *See*—
Farrington, Robert K., and T. B., and Kurzenberger.

Thompson, Parke H., Kirkwood, Mo., assignor to the United States of America as represented by the Secretary of the Army. Delayed arming mechanism. 2,663,260, Dec. 22.

Thompson Products, Inc., assignee : *See*—
Snyder, Jacob R.

Thomsen, Alfred M., San Francisco, Calif. Making a lignin fertilizer base. 2,663,628, Dec. 22.

Thorpe, Lawrence R., Columbus, Ohio. Knot form. 2,663,023, Dec. 22.

Thring, Meredith W., and F. B. Karthauser, assignors to C. U. R. A. Patents Limited, London, England. Means for controlling the air supply in furnaces and like heating appliances. 2,663,272, Dec. 22.

Tinsman, Jack R., Park Ridge, R. J. Novy, Chicago, and R. O. Pence, Wilmette, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Automatic screw driving machine. 2,663,334, Dec. 22.

Todd, Charles W. : *See*—
Searle, Norman E., and Todd.

Toepel, Tim : *See*—
Graf, Fritz, and Toepel.

Tol, Tacke : *See*—
Teves, Marten C., and Tol.

Tongson, Adrian N., Chicago, Ill. Fishing line sinker. 2,663,113, Dec. 22.

Tooke, Clark W., Jacksonville, Fla. Cotton picker. 2,663,136, Dec. 22.

Towner, Harold G., Arlington, Va. Cold extruding a projectile with a rotating band. 2,663,068, Dec. 22.

Towner Manufacturing Co., assignee : *See*—
Rapp, Howard B., and Heckathorn.

Toy, Arthur D. F., Park Forest, Ill., assignor to Victor Chemical Works. Preparing tetraalkyl dithionopyrophosphates. 2,663,722, Dec. 22.

Traeger, Bruno, Mulheim-Heissen, and W. Rottig, Oberhausen-Sterkrade-Nord, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany. Purification of alcohols by azeotropic distillation. 2,663,682, Dec. 22.

Trépaud, Georges, assignor to The Society Refroidisseur Trepaud S. A. R. L., Paris, France. Tubular ice-machine. 2,663,162, Dec. 22.

Trico Products Corporation, assignee : *See*—
Oishei, John R.

Trucktor Corporation, The, assignee : *See*—
Farris, Clayton.

Tschop, Harry E., J. E. Carter, and C. B. Goodrich, Huntington, W. Va., assignors to The International Nickel Company, Inc., New York, N. Y. Reduction of oxides. 2,663,631, Dec. 22.

Tschudnowsky, Jean R., assignor to Compagnie Generale du Duralumin et du Cuivre, Paris, France. Device for drawing metal bars. 2,663,411, Dec. 22.

Tucker, Benjamin W., Jr., South Orange, N. J., assignor to Otis Elevator Company, New York, N. Y. Interlocking mechanism for elevator doors. 2,663,383, Dec. 22.

Tucker, John B., Marblehead, Mass., assignor to General Electric Company. Ratchet operating mechanism. 2,662,193, Dec. 22.

Tulagin, Vsevolod, Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Hydroxy-benzimidazoles and their preparation. 2,663,712, Dec. 22.

Turnberg, Clarence F., assignor of one-half to H. G. Belasco, San Francisco, Calif. Nasal adapter for oxygen inhalation. 2,663,297, Dec. 22.

Turnbull, Frederick M., assignee: *See* Brown, Frank E.

Turner, John R.: *See*— Reynolds, Warren S., Turner, and Frandsen.

Tuttle, Clifton M., and E. O'Neil, assignors to Eastman Kodak Company, Rochester, N. Y. Mechanism for producing speed indicating markings on the edges of rapidly moving film. 2,663,611, Dec. 22.

Tuttle, Fordyce E., and W. C. Newcomb, assignors to Eastman Kodak Company, Rochester, N. Y. Method and apparatus for determining the velocity and acceleration characteristics of moving objects. 2,663,215, Dec. 22.

Tuttle, Fordyce E., and W. C. Newcomb, assignors to Eastman Kodak Company, Rochester, N. Y. Determining the velocity and acceleration characteristics of moving objects. 2,663,217, Dec. 22.

Twomey, Lee S., Vista, Calif. Manipulation of nitrogen-contaminated natural gases. 2,663,169, Dec. 22.

Tye, Opel L., Pineville, Ky. Screen door safety latch. 2,663,585, Dec. 22.

Tyson, Charles W.: *See*— Cardwell, Milton M., Roddey, and Tyson.

Ullstrand, Hugo M., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Refrigerator employing secondary refrigeration system. 2,663,159, Dec. 22.

Ulmer, Richard C.: *See* Corso, Joseph V., and Ulmer.

United Aircraft Corporation, assignee: *See*— Richmond, Nelson R. Sikorsky, Igor I.

United Shoe Machinery Corporation, assignee: *See*— Daniels, Richard W., Jr., and Maciejowski. Jorgensen, Bernhardt. Miller, Lloyd G.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*— Ohmart, Philip E. Slavin, Morris, Fletcher, and May.

United States Gypsum Company, assignee: *See*— Huntzicker, Harry N. Huntzicker, Harry N., Dailey, and Minnis.

United States Rubber Company, assignee: *See*— Mankowich, Ivan.

U. S. Tool Company, Inc., assignee: *See*— Grimm, Eric.

Universal Oil Products Company, assignee: *See*— Haensel, Vladimir. Pines, Herman, and Ipatieff.

Universal Winding Company, assignee: *See*— Boily, Norman E. Soussloff, Dimitri G.

Uphoff, Ralph E., Madison, Wis. Sealing means for door bottoms. 2,663,057, Dec. 22.

Upjohn Company, The, assignee: *See*— Ingle, Dwight J.

Vaillant, Johann, Kommanditgesellschaft, assignee: *See*— Brüinmerhoff, Walter.

Vanderhilt Associates, assignee: *See* Shull, Harrison J.

Vandermeer, Will, assignor to The Ryan Aeronautical Co., San Diego, Calif. Helicopter rotor control mechanism. 2,663,374, Dec. 22.

Van Dolah, Delos B., assignor to Swift & Company, Chicago, Ill. Poultry processing method. 2,663,049, Dec. 22.

Van Gelder, Gozewijn: *See*— Vervest, Wilhelmus L., and van Gelder.

Van Loon, Herbert A., Bishop, assignor of one-half to D. R. Smith, Altadena, Calif. Molding machine and molding. 2,663,063, Dec. 22.

Van Werd, Johannes H. F., and C. H. J. Anderson, Eindhoven, Netherlands; assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electrical contact assembly. 2,663,853, Dec. 22.

Vaughan, William K., Carthage, N. Y. Wood chipper. 2,663,506, Dec. 22.

Verderber, Joseph, Cleveland, Ohio. Fluid-operated clamping device with mechanical advantage and delayed release action. 2,663,151, Dec. 22.

Verderber, Joseph, assignor to The Cleveland Universal Jig Company, Cleveland, Ohio. Fluid operated clamping device with lubricant atomizing means. 2,663,339, Dec. 22.

Verderber, Joseph, Cleveland, Ohio. Precision measuring device. 2,663,598, Dec. 22.

Vervest, Wilhelmus L., and G. van Gelder, Hilversum, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Variable coil assembly. 2,663,849, Dec. 22.

Viboud, Albert, and A. Gras, assignors to Etablissements Merlin & Gerin, Societe Anonyme, Grenoble, France. Protecting device for circuit breakers. 2,663,779, Dec. 22.

Vibra-Bath Corporation, assignee: *See* Schwartz, Hal H.

Victor Chemical Works, assignee: *See*— Toy, Arthur D. F.

Vinograd, Jerome R.: *See* Rónay, Geza S., and Vinograd.

Vinson, Beta, Emporia, Va. Trip latch stake pocket. 2,663,572, Dec. 22.

Voss, John H., Rochester, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Centralized control circuits for flat type switches. 2,663,761, Dec. 22.

Vrat, Ved, Belmont, assignor to The Permanente Foundation, Oakland, Calif. Producing arginase. 2,663,668, Dec. 22.

Waeselynck, Raymond F. M., Indret, Loire-Inferieure, assignor to Societe Rateau (Societe Anonyme), and Rene Anxionnaz, Paris, France. Power plant comprising the combination of gas and steam turbines with a supercharged furnace steam-generator. 2,663,145, Dec. 22.

Wagner, Arthur W., assignor to Easy Power, Incorporated, Milwaukee, Wis. Centrifugally engaged clutch. 2,663,396, Dec. 22.

Wagner, Jean, Paris, France. Apparatus for automatic withdrawing of pulp articles from molds. 2,663,230, Dec. 22.

Walder, Robert B., Los Angeles, Calif. Rotary valve. 2,663,290, Dec. 22.

Waldes, Kohinoor, Inc., assignee: *See* Soave, John G.

Walker, Brooks, Piedmont, Calif. Venetian blind closed head rail. 2,663,368, Dec. 22.

Wallace, Leta, assignor of one-third to A. Winning, Kansas City, Mo. Finger to piano key indicator. 2,663,211, Dec. 22.

Wallace, Robert L., Jr.: *See* Raisbeck, Gordon, and Wallace.

Wallace & Tiernan Co., Inc., assignee: *See*— Booth, George M.

Walsh, Edward J., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,663,818, Dec. 22.

Walter, Orville L.: *See* Carr, James A., Haskell, Sutton, and Walter.

Walters, Fred, assignee: *See* Davidson, Noland D., and Henderson.

Walz, Carl A.: *See*— Armstrong, Daniel A., Carlson, and Walz.

Wantland, Cleaon, executrix: *See*— Lentz, Marshall E., Anderson, and Driffill.

Warner, Arthur J., Glen Ridge, and A. R. Gobat, North Caldwell, assignors to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Primary cell. 2,663,749, Dec. 22.

Warner, Leonard C., Waterbury, Conn. Fishing leader holder. 2,663,114, Dec. 22.

Warrick, Thurlow J., Erie, and C. A. Brancke, North East, Pa., assignors to General Electric Company. System for shutting down and operating thermal prime movers. 2,663,803, Dec. 22.

Washburn, T. F., Co., assignee: *See*— Winkler, William B.

Waterston, James R. C., assignor to Brown Brothers & Co., Limited, Edinburgh, Scotland. Fluid seal. 2,663,385, Dec. 22.

Watson, John W., Wayne, Pa. Leaf spring end spacer and cushioning device. 2,663,563, Dec. 22.

Watson, W., & Sons, Limited, assignee: *See*— Hopkins, Harold H.

Weber, Nelson H.: *See*— Hept, Ralph W., and Weber.

Wefco Inc., assignee: *See* Winslow, Willis M.

Weissberger, Arnold, assignor to Eastman Kodak Company, Rochester, N. Y. (Alkysulfonamido) arylhydrazines. 2,663,732, Dec. 22.

Welch Grape Juice Company, Inc., The, assignee: *See*— Dascomb, Clair E.

Wells, Charles L., Torrance, Calif. Window construction. 2,663,532, Dec. 22.

Wells, Philip H., Chatham, N. J., A. A. Steinmetz, Yonkers, N. Y., and W. D. Cannon, Metuchen, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Regulated power supply. 2,663,759, Dec. 22.

Welsh, Matilda D., Ladue, Mo. Adjustable foot well for strollers. 2,663,589, Dec. 22.

Weltman, William C., and C. G. Kepple, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermosetting synthetic resin laminate with a predetermined roughened surface and producing the same. 2,663,663, Dec. 22.

Westcott, Frank, Harpenden, England, assignor to General Motors Corporation, Detroit, Mich. Closure-cap device for receptacles. 2,663,447, Dec. 22.

Western Electric Company, Incorporated, assignee: *See*— Earle, Norman E., and Leidich. Herzog, Carl. Holcomb, Arthur L. Krogel, Christopher J.

Western Inspection Company, Incorporated, assignee: *See*— Huhn, Fritz.

Western Union Telegraph Company, The, assignee: *See*— Wells, Philip H., Steinmetz, and Cannon.

Westinghouse Electric Corporation, assignee: *See*— Baker, Robert M. Bandry, René A. Bendz, Waldemar I. Berkovitz, Harry. Boyer, John L. Boyer, John L., and Colaiaco. Bricker, Samuel R. De Val, Eugene J., and Ackermann. Drobney, Joseph A., and Brown. Fisher, Martin H. Harding, William R., and Opel. Holliday, Ivar M., Douglas, and Hanna. Krings, Bernard J. Large, William E., and Barrell. MacNeill, John B., and Lingal. MacNeill, John B., Stuellein, and Horn. Redmond, John A. Sauer, Louis E. Stratton, Arthur T. Weltman, William C., and Kepple. Willby, Norman H.

Weston Electrical Instrument Corporation, assignee: *See*— Gilbert, Roswell W.

West Point Manufacturing Company, assignee: *See*— Piper, Frank R., and Gardner.

Weygandt, Leslie G.: *See*— Petterson, Reinhardt, and Weygandt.

Wheeler, Delbert, Topeka, Kans. Testing screen. 2,663,423, Dec. 22.

Whittaker, Randall, Sayville, and A. C. Herro, Oakdale, assignors to National Dairy Research Laboratories, Inc., Islip, N. Y. Concentrating milk and product. 2,663,642, Dec. 22.

White, Charles D.: *See*— Reeves, Alec H., and White.

White, Halbert C., and D. V. Wysong, assignors to The Dow Chemical Company, Midland, Mich. Production of hydantoin and glycine. 2,663,713, Dec. 22.

Whiteman, Fred: *See*— Cencer, Peter F., and Whiteman.

Whiting, Richard L. and R. E., Detroit, Mich., assignors to Whiting Tubular Products, Incorporated. Method and means for producing closed end tubing. 2,663,206, Dec. 22.

Whiting, Robert E.: *See*— Whiting, Richard L. and R. E.

Whiting Tubular Products, Incorporated, assignee: *See*— Whiting, Richard L. and R. E.

Whitley, Eunice G.: *See* Whitley, Henry B. and E. G.

Whitley, Henry B. and E. G., Durham, N. C. Head support. 2,663,029, Dec. 22.

Wickerham, Warren E., Penn Township, Allegheny County, and O. K. Doolen, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Magnetic gradiometer. 2,663,843, Dec. 22.

Widerøe, Rolf, Ennetbaden, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Magnetic induction accelerator. 2,663,813, Dec. 22.

Wier, Anthony J., Cranford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Shielded electrical conductor with grounding strand. 2,663,752, Dec. 22.

Wiggins, John H., Chicago, Ill. Floating roof or cover for liquid storage tanks. 2,663,452, Dec. 22.

Wiggins, John H., and J. W. Allen, Chicago, Ill., said Allen assignor to said Wiggins. Floating roof for sewage digesting apparatus. 2,663,453, Dec. 22.

Wilbro Corporation, assignee: *See* Geisler, William.

Wiles, Everett R., G. L. Meyers, and H. H. Coffman, Barnsdall, Okla., assignors, by mesne assignments, to Marathon Corporation, Rothschild, Wis. Breaking a urea complex. 2,663,671, Dec. 22.

Wilkins, Frederick J.: *See* Bewley, Thomas, and Wilkins.

Willby, Norman H., Irwin, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Traction motor control. 2,663,835, Dec. 22.

Williams, Richard H., Amsterdam, Ohio, assignor to National Steel Corporation. Signal for lifting apparatus. 2,663,865, Dec. 22.

Wilson, Samuel W., and E. T. Delaune, Baton Rouge, La., assignors to Standard Oil Development Company. Improving alcohol quality. 2,663,426, Dec. 22.

Wilson, Samuel W., Baton Rouge, La., assignor to Standard Oil Development Company. Improving alcohol quality. 2,663,745, Dec. 22.

Wilson, Walter H., Long Beach, Calif. Thermojet engine. 2,663,142, Dec. 22.

Winchester, Dora, Miami, Fla., and E. K. Lotthammer, Jamaica, N. Y., said Lotthammer assignor to said Winchester. Combination comb, brush, and hair receiver. 2,663,303, Dec. 22.

Wingfoot Corporation, assignee: *See*— Chamberlain, Richard K. Goulding, Albert, Jr., and Jukich. Miller, Ralph L. Swain, Joseph G. Zarth, Charles E.

Winikoff, Abraham, New York, N. Y. Combined seat and folding bed. 2,663,028, Dec. 22.

Winkler, William B., assignor to T. F. Washburn Co., Chicago, Ill. Ester modified polyamide resins. 2,663,649, Dec. 22.

Winners, Leonhard H.: *See*— Müller, Franz, and Winners.

Winning, Amy, assignee: *See*— Wallace, Leta.

Winslow, Willis M., Wheatridge, assignor to Wefco Inc., Denver, Colo. Electric motor with a field responsive fluid clutch. 2,663,809, Dec. 22.

Wisconsin Alumni Research Foundation, assignee: *See*— Johnson, William S., and Christiansen.

Wittemann Company, Incorporated, The, assignee: *See*— Craig, Francis A.

Wolf, Calvin N.: *See*— Ligett, Waldo B., Wolf, and Closson.

Wolf, Walter A., assignor to Switches, Inc., Logansport, Ind. Automatic starter for internal-combustion engines. 2,663,804, Dec. 22.

Wolfrom, Thomas E., assignee: *See*— Cochrane, Robert J.

Wood, Arthur F.: *See*— Fetter, William G., Wood, and Holt.

Wood, Clyde W., Pasadena, Calif. Dump wagon. 2,663,231, Dec. 22.

Wood, Glenn D., assignor to Posture Research Institute, Inc., Elkhart, Ind. Auxiliary seat for automobiles and the like. 2,663,359, Dec. 22.

Wood, William H., Mantua, and D. N. Adams, Lakewood, assignors to Harris-Seybold Company, Cleveland, Ohio. Printing plate preparation. 2,663,639, Dec. 22.

Wood, William W., Jr., Fenton, and L. E. Lundquist, Jr., Binghamton, N. Y., assignors to the United States of America as represented by the Secretary of the Air Force. System for measuring and recording the forces acting on airplane controls and the like. 2,663,187, Dec. 22.

Woodbury, Glen P., Reading, Mass. Frame for photographs and pictures. 2,663,105, Dec. 22.

Woodhams, Walter J., assignor to Woodlin Metal Products Company, Marshall, Mich. Latching assembly for windows, and the like. 2,663,587, Dec. 22.

Woodlin Metal Products Company, assignee: *See*— Woodhams, Walter J.

Worn, George A., Greenwich, Conn., assignor to The Lummus Company, New York, N. Y. Deaerating and evaporating unit. 2,663,286, Dec. 22.

Worthington, Carl R., Tulare, assignor of one-half to Corcoran Implement Company, Inc., Corcoran, Calif. Reconditioning apparatus for doffer assemblies. 2,663,123, Dec. 22.

Wright, George J., Berkeley, and R. J. Wright, Albany, assignors, by mesne assignments, to Fritter-Chef Corporation, Berkeley, Calif. Machine for coating frankfurters. 2,663,281, Dec. 22.

Wright, Ralph J.: *See*— Wright, George J. and R. J.

Wunderlich, Henry E., Seattle, Wash. Air pickup and suction device. 2,663,243, Dec. 22.

Wyatt, James L.: *See*— Stoddard, Carl K., and Wyatt.

Wyatt, James R., Havertown, assignor to The Ajax Metal Company, Philadelphia, Pa. Phosphorizing nozzle. 2,663,590, Dec. 22.

Wysong, Don V.: *See*— White, Halbert C., and Wysong.

Yarber, Gordon W., near Seattle, assignor to Boeing Airplane Company, Seattle, Wash. Airplane landing wheel brake control apparatus. 2,663,521, Dec. 22.

Yarnall, Chandler P., Merchantville, N. J. Closure plug. 2,663,451, Dec. 22.

Yates, Edward C., Beckley, W. Va. Rail for facilitating the application of tire chains. 2,663,208, Dec. 22.

Yehling, George C., Jr., St. Louis, Mo., assignor to American Viscose Corporation, Wilmington, Del. Process and composition for producing improved viscose. 2,663,704, Dec. 22.

Yellin, Bernard, assignor to Bernard Edward Co., Chicago, Ill. Table stand for hot casserole dishes. 2,663,172, Dec. 22.

Yonamine, Ernest T., Honolulu, Hawaii. Automatic blade holding razor. 2,663,080, Dec. 22.

Youmans, John R., trustee: *See*— Shull, Harrison J.

Young, David W.: *See*— Kraus, Charles A., and Young.

Young, Evan J.: *See*— Bland, Marshall R., and Young. Dvornikoff, Michael N., and Young.

Young, James F., Erie, Pa., assignor to General Electric Company. Evaporator. 2,663,160, Dec. 22.

Younglove, David, Ilion, N. Y. Rearview mirror for automobiles. 2,663,224, Dec. 22.

Zarth, Charles E., assignor to Wingfoot Corporation, Akron, Ohio. Tire bead lock clip. 2,663,061, Dec. 22.
Zeidler, Reinhold C., and W. A. Barnes, Detroit, Mich., assignors to Borg-Warner Corporation, Chicago, Ill. Rotary turbine-type hydraulic torque converter. 2,663,149, Dec. 22.
Zeiss-Opton Optische Werke Oberkochen G. m. b. H., assignee: *See*—
Bauersfeld, Walther, and Bernhardt.
Zenith Radio Corporation, assignee: *See*—
Bell, John F.
Zimmerman, Jerome G., West Milton, assignor to The Standard Register Company, Dayton, Ohio. Manifolding transfer and making. 2,663,579, Dec. 22.
Zimmerman, Jerome G., West Milton, assignor to The Standard Register Company, Dayton, Ohio. Manifold sheet and making same. 2,663,653, Dec. 22.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Apparatus for testing the hardness of materials. A. Ernst. Re. 23,755, Dec. 22.
Complementary color blending. R. E. Pike. Re. 23,757, Dec. 22.
Staple feed mechanism for portable pneumatic staplers. A. G. Juilfs. Re. 23,756, Dec. 22.

LIST OF PLANT INVENTIONS

Rose plant. M. R. Jacobus. 1,234, Dec. 22.

LIST OF DESIGN INVENTIONS

Apron. W. P. Odom. 171,166, Dec. 22.
Ash tray. E. W. Ekstrand. 171,123, Dec. 22.
Ash tray or similar article. E. M. Capouch. 171,120, Dec. 22.
Bracelet or the like. A. Katz. 171,151–2, Dec. 22.
Bracelet or the like. A. Katz. 171,154, Dec. 22.
Bracelet or the like. A. Katz. 171,158, Dec. 22.
Brassière. I. Gimble and D. Musano. 171,127, Dec. 22.
Brooch or the like. A. Katz. 171,134, Dec. 22.
Brooch or the like. A. Katz. 171,138, Dec. 22.
Brooch or the like. A. Katz. 171,140, Dec. 22.
Brooch or the like. A. Katz. 171,142–4, Dec. 22.
Brooch or the like. A. Katz. 171,147, Dec. 22.
Brooch or the like. A. Katz. 171,149–50, Dec. 22.
Chair. M. Yellen. 171,176, Dec. 22.
Cabinet for lubricating equipment. A. P. Fox and A. D. Reisert. 171,125, Dec. 22.
Cabinet, Medicine. F. E. Knight. 171,159, Dec. 22.
Calendar. J. P. Goodson. 171,129, Dec. 22.
Case, Bottle carrying. K. K. Hudson. 171,131, Dec. 22.
Case for bottles, Carrying. K. K. Hudson. 171,132, Dec. 22.
Chain for a bracelet or the like, Link. A. Katz. 171,156, Dec. 22.
Chain for a necklace or similar article, Link. M. Chernow. 171,121, Dec. 22.
Chain for a necklace or the like, Link. A. Katz. 171,153, Dec. 22.
Chair. J. E. Adkinson. 171,116, Dec. 22.
Cup, Ice cream. M. L. Conlin. 171,122, Dec. 22.
Deodorizer. L. P. Zelenka. 171,177, Dec. 22.
Diagnostic instrument head. R. F. E. Stegeman. 171,169, Dec. 22.
Dial for a combination lock, Concealed. H. G. Ball. 171,117, Dec. 22.
Diaper cover or the like. W. H. Goldstein. 171,128, Dec. 22.
Dish, Sandwich. L. M. Ross. 171,168, Dec. 22.
Display and protective device for a telephone receiver or similar article, Combined. L. E. Larabell. 171,161, Dec. 22.
Earring or the like. A. Katz. 171,135–7, Dec. 22.
Earring or the like. A. Katz. 171,139, Dec. 22.
Earring or the like. A. Katz. 171,141, Dec. 22.
Earring or the like. A. Katz. 171,145–6, Dec. 22.
Earring or the like. A. Katz. 171,148, Dec. 22.
Escutcheon plate for a stove or range. J. B. Stuman. 171,170, Dec. 22.
Fishing outrigger. P. D. Wells. 171,175, Dec. 22.
Freezer, Refrigerator-type ice-cream. J. Teague. 171,174, Dec. 22.
Hat. M. M. Tapley. 171,173, Dec. 22.
Helicopter. C. E. Jay. 171,133, Dec. 22.
Lamp and book support, Combined floor. H. Swede. 171,172, Dec. 22.
Lighting fixture or similar article. J. Morgan. 171,164, Dec. 22.
Necklace or the like. A. Katz. 171,155, Dec. 22.
Necklace or the like. A. Katz. 171,157, Dec. 22.
Pair of spectacles. A. R. Suma, Sr. 171,171, Dec. 22.
Pencil sharpener. G. N. Fryer. 171,126, Dec. 22.
Pitcher. H. L. Basore. 171,118, Dec. 22.
Rack, Tire. C. D. Lampman. 171,160, Dec. 22.
Service wagon. A. O. Estrada. 171,124, Dec. 22.
Shaker conveyer trough. E. R. Bergmann. 171,119, Dec. 22.
Shoe sole. W. J. Gruner. 171,130, Dec. 22.
Steering wheel and horn ring, Combined vehicle. J. T. McCreary. 171,163, Dec. 22.
Teething aid. M. F. Newmark. 171,165, Dec. 22.
Tool, Combination. E. S. Polk. 171,167, Dec. 22.
Wheel cover or similar article. G. A. Lyon. 171,162, Dec. 22.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22d DAY OF DECEMBER, 1953

NOTE Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abradant supplying means. J. J. Hunt. 2,663,127, Dec. 22.
Abrasive tool. G. F. Ritter. 2,663,071, Dec. 22.
Absorption refrigeration. W. M. Simpson. 2,663,165, Dec. 22.
Accelerator, Magnetic induction. R. Wideröe. 2,663,813, Dec. 22.
Accumulator. R. E. Snyder. 2,663,320, Dec. 22.
Addition agent and introducing magnesium into cast iron. A. D. Busby. 2,663,635, Dec. 22.
Agricultural apparatus for blocking row crops and the like. G. W. Howard. 2,663,238, Dec. 22.
Air conditioning system. J. D. Strobell. 2,663,155, Dec. 22.
Aircraft control. G. Muffly. 2,663,518, Dec. 22.
Aircraft interconnecting mechanism. C. J. Lelsy. 2,663,523, Dec. 22.
Air pickup and suction device. H. E. Wunderlich. 2,663,243, Dec. 22.
Alarm system, Electric burglar. O. C. Cundiff. 2,663,864, Dec. 22.
Alarm system for jails, Fluid controlled. O. W. Becker. 2,663,271, Dec. 22.
Alkyd modified siloxane coating compositions. R. L. Millar. 2,663,694, Dec. 22.
(Alkysulfonamido) arylhydrazines. A. Weissberger. 2,663,732, Dec. 22.
All hand weaving adjustable loom. D. A. and G. S. Berger. 2,663,066, Dec. 22.
Alumina from aluminum chloride hexahydrate, Preparation of. V. Haensel. 2,663,620, Dec. 22.
Amino piperazines and preparing the same. E. A. Conroy and R. P. Parker. 2,663,707, Dec. 22.
Ammunition. R. T. Catlin, C. S. Cummings, H. G. R. Eckstein, and P. Hickman. 2,663,259, Dec. 22.
Amplifier creeping speed control, Magnetic. M. H. Fisher. 2,663,833, Dec. 22.
Amplifier, Plural-stage rotary. W. R. Harding and L. G. Opel. 2,663,841, Dec. 22.
Amplifier with conjugate input and output circuits, Transistor. L. A. Meacham. 2,663,766, Dec. 22.
Animal handling device. J. D. Julius. 2,663,283, Dec. 22.
Animal trap. F. S. Jones. 2,663,116, Dec. 22.
Antenna, Directive. W. E. Kock. 2,663,797, Dec. 22.
Antenna scanning system, Helical. M. D. Adcock and A. E. Marston. 2,663,869, Dec. 22.
Antibacklash gearing. C. W. Cairnes. 2,663,198, Dec. 22.
Antiskid device. O. Cardell. 2,663,345, Dec. 22.
Apparatus and method for administering parenteral solutions. H. W. Rose. 2,663,298, Dec. 22.
Apparatus for automatic withdrawing of pulp articles from molds. J. Wagner. 2,663,230, Dec. 22.
Apparatus for constructing sea walls. E. H. Latham, Jr. 2,663,064, Dec. 22.
Apparatus for cooling and dehumidifying air. J. F. Baker. 2,663,156, Dec. 22.
Apparatus for evaporating liquids. J. J. McAndrews. 2,663,683, Dec. 22.
Apparatus for forming articles. C. Herzog. 2,663,120, Dec. 22.
Apparatus for handling finely divided solid materials. D. R. Hogin. 2,663,465, Dec. 22.
Apparatus for handling granular material. R. T. Savage. 2,663,593, Dec. 22.
Apparatus for heating fine-grained material, particularly cement raw material. F. Müller. 2,663,561, Dec. 22.
Apparatus for hydrocarbon determination. R. L. Doan. 2,663,379, Dec. 22.
Apparatus for imparting a vibrating movement to objects or matters. L. H. de Langen. 2,663,554, Dec. 22.
Apparatus for measuring electrostatic charges. G. W. Graham. 2,663,842, Dec. 22.
Apparatus for producing symmetrical generally ellipsoidal capsules. A. M. Donofrio. 2,663,130, Dec. 22.
Apparatus for reading. D. H. Shepard. 2,663,758, Dec. 22.
Apparatus for sharpening drills. O. Amiet. 2,663,126, Dec. 22.
Apparatus for wet treatment of a continuous wide strip of fabric. C. G. Hanbart. 2,663,177, Dec. 22.
Apparatus for winding. R. H. Roughsedge. 2,663,067, Dec. 22.
Aqueous coating compositions from chlorinated emulsifier-stabilized latex. P. Ten Have. 2,663,747, Dec. 22.
Arginase, Producing. V. Vrat. 2,663,668, Dec. 22.
Arming mechanism, Delayed. P. H. Thompson. 2,663,260, Dec. 22.

Article elevating caster mounting. R. G., Jr., and J. P. Ross. 2,663,048, Dec. 22.
Article of footwear embodying flock-coated outsole. A. G. Giese, Jr. 2,663,097, Dec. 22.
Article of repose for supporting the body of a person. A. Lorenz. 2,663,356, Dec. 22.
Article of repose for supporting the body of a person. A. Lorenz. 2,663,358, Dec. 22.
Article wall hanger. R. C. Nye. 2,663,530, Dec. 22.
Asphalt, Production of. C. A. Kraus and D. W. Young. 2,663,672, Dec. 22.
Assembling filter elements. R. R. Layte. 2,663,660, Dec. 22.
Attachment assembly for live boxes. E. W. Kelser and A. F. Kieser. 2,663,533, Dec. 22.
Attachment for the handle of driven tool-equipped flexible shafts. P. A. Sigvathsen. 2,663,336, Dec. 22.
Attachment for V type snowplows. C. H. Frink and G. W. Kenyon. 2,663,098, Dec. 22.
Audiometric apparatus. W. Grandjot. 2,663,377, Dec. 22.
Automatic clutch. W. T. Livermore. 2,663,393, Dec. 22.
Axle stop for journal boxes. W. T. Bissell and T. W. Potter. 2,663,583, Dec. 22.
Axle structure for mining apparatus, Rocking. C. P. Baldwin. 2,663,266, Dec. 22.
Axle unit for motor vehicles, Dual. W. L. Romick. 2,663,571, Dec. 22.
Baby cuff. B. C. and F. V. Lewandowski. 2,663,295, Dec. 22.
Baby trainer chamber. J. V. Heath. 2,663,861, Dec. 22.
Bail for facilitating the application of tire chains. E. C. Yates. 2,663,208, Dec. 22.
Baking device, Variable volume. D. D. Smart. 2,663,449, Dec. 22.
Balancing rotating bodies, Method of and apparatus for. M. S. Merrill and L. H. Erickson. 2,663,184, Dec. 22.
Ball milled high calcium lime and making the same. H. N. Huntzicker, M. C. Dailey, and B. R. Minnis. 2,663,646, Dec. 22.
Bar: *See*
Venetian blind bottom bar.
Battery cable clamp. O. L. Peterson. 2,663,854, Dec. 22.
Battery, Flat cell electric. R. Paillet. 2,663,750, Dec. 22.
Battery indicator. R. P. De Anthony. 2,663,862, Dec. 22.
Bearing: *See*
Line shaft guide bearing.
Bed, Chair. J. D. Bell. 2,663,351, Dec. 22.
Bed mechanism, Folding. V. Giuseffi. 2,663,032, Dec. 22.
Belt and support therefor, Elastic. D. G. Posson. 2,663,027, Dec. 22.
Belt tensioner. R. P. Horan. 2,663,195, Dec. 22.
Beverage cooler. C. Boling. 2,663,548, Dec. 22.
Bicycle, Water. R. S. Skinner. 2,663,278, Dec. 22.
Blading for compressors, turbines, and the like. F. H. Keast. 2,663,493, Dec. 22.
Blading for hydraulic torque converters. V. J. Jandasek. 2,663,148, Dec. 22.
Blown arc lamp. E. Gretener. 2,663,792, Dec. 22.
Board: *See*
Hosiery board.
Boiler device, Automatic refueling. W. F. Krautter, W. I. E. Kamm, and K. Staiger. 2,663,363, Dec. 22.
Brace, Drop foot. J. R. Harrison. 2,663,294, Dec. 22.
Bracket: *See*
Ladder bracket.
Brake: *See*
Elevator brake.
Self-energizing single-disk brake.
Brake control apparatus, Airplane landing wheel. G. W. Yarber. 2,663,521, Dec. 22.
Brake mechanism, Safety. W. E. Brady. 2,663,596, Dec. 22.
Brake release, Automatic. J. Fenley. 2,663,386, Dec. 22.
Breaking a urea complex. E. R. Wiles, G. L. Meyers, and H. H. Coffman. 2,663,671, Dec. 22.
Brushing and nap-raising attachment for carpet cleaning machines, Portable. J. D. Conway. 2,663,045, Dec. 22.
Bucket, Aerated minnow. R. G. McKissack. 2,663,115, Dec. 22.
Buckle, Mechanical belt. J. Abel. 2,663,062, Dec. 22.
Buff. W. Ruthven. 2,663,125, Dec. 22.
Burner for tobacco drying and curing means, Oil. W. B. Dowless. 2,663,364, Dec. 22.
Burner with forced combustion air supply, Trough-type oil. H. R. Harris. 2,663,366, Dec. 22.

Cabinet: *See*—
Frozen food cabinet. Swinging drawer cabinet.
Cable lashing machine. J. J. Harley. 2,663,544, Dec. 22.
Calculator, Including a slidable slate, Multiplying. C. Lipkin. 2,663,093, Dec. 22.
Caliper for threaded joints. J. D. Gardner. 2,663,086, Dec. 22.
Cam follower, Variable timing. J. R. Hutchison. 2,663,288, Dec. 22.
Camera shutter incorporating flash synchronizing mechanism. K. Rentschler. 2,663,233, Dec. 22.
Can. H. Sebell. 2,663,455, Dec. 22.
Can and tumbler package. T. W. Foster. 2,663,413, Dec. 22.
Can puncturing and can holder device, Combined. J. O. Keeney. 2,663,460, Dec. 22.
Cap: *See*—
Closure cap.
Cap for welding electrodes, Wrinkle type replaceable. W. G. Fetter, A. F. Wood, and E. F. Holt. 2,663,783, Dec. 22.
Carbon disulfide, Preparation of. W. W. Odell, C. E. Morrell, and H. W. Scheeline. 2,663,622, Dec. 22.
Card and support, Display. H. G. Hoagland. 2,663,104, Dec. 22.
Cargo carrier for motor vehicles. R. C. Belgau. 2,663,472, Dec. 22.
Carrier: *See*
Outboard motor carrier.
Carrier for industrial elevating trucks. F. J. Schenkelberger. 2,663,443, Dec. 22.
Carrier for mower attachments. H. J. Bodine. 2,663,134, Dec. 22.
Carton and detachable cover, Expansible. R. E. Paige. 2,663,487, Dec. 22.
Carton, Corrugated. B. and I. Etra. 2,663,490, Dec. 22.
Case. I. Hill and G. L. Miller. 2,663,491, Dec. 22.
Casing for dry wall construction, Metal. W. R. Dordel. 2,663,390, Dec. 22.
Casting machine, Typographical. W. B. Abbott. 2,663,409, Dec. 22.
Catalyst recovery. M. M. Cardwell, O. C. Roddey, and C. W. Tyson. 2,663,676, Dec. 22.
Catalytic hydration of olefins. S. J. Lukasiewicz and W. I. Denton. 2,663,744, Dec. 22.
Centrifugal and one-way clutch. L. H. Scott. 2,663,397, Dec. 22.
Centrifugal device. R. J. Hartz. 2,663,771, Dec. 22.
Centrifugally engaged clutch. A. W. Wagner. 2,663,396, Dec. 22.
Chain: *See*—
Traction chain.
Chain and coupling, Traction. C. J. Manney and W. H. Devonshire. 2,663,347, Dec. 22.
Chair: *See*—
Reclining chair.
Cheese curd cutter. B. T. Hensgen. 2,663,081, Dec. 22.
Chipper, Wood. W. K. Vaughan. 2,663,506, Dec. 22.
Chopping machine, Cotton. J. E. Rode. 2,663,237, Dec. 22.
Cigarette dispenser. R. L. Oliver. 2,663,605, Dec. 22.
Cigarette holder. S. De Pinto. 2,663,300, Dec. 22.
Cigarette supporting and extinguishing device, Combination. H. L. Bachman, Sr. 2,663,301, Dec. 22.
Circuit arrangement, Time-limiting. M. J. Schmitz and R. B. Buchner. 2,663,763, Dec. 22.
Circuit breaker. I. W. Cox. 2,663,777, Dec. 22.
Circuit breaker. J. A. Drobney and P. W. Brown. 2,663,773, Dec. 22.
Circuit breaker. J. B. MacNeill, W. H. Stuellein, and M. E. Horn. 2,663,775, Dec. 22.
Circuit breaker, Electromagnetic trip. J. B. MacNeill and H. J. Lingal. 2,663,774, Dec. 22.
Circuit for television receivers, Current supply. H. Donn. 2,663,805, Dec. 22.
Circuit regulating device. N. Insley and T. L. Tanner. 2,663,782, Dec. 22.
Circuits for flat type switches, Centralized control. J. H. Voss. 2,663,761, Dec. 22.
Circuits for line relay and vertical magnet of automatic switches, Preenergizing. C. E. Lomax. 2,663,762, Dec. 22.
Circuits, Low-input impedance transistor. G. Raisbeck and R. L. Wallace, Jr. 2,663,796, Dec. 22.
Clamp: *See*
Battery cable clamp.
Clamp arrangement for connecting tubular members. F. Sebok. 2,663,582, Dec. 22.
Clamping device with lubricant atomizing means, Fluid operated. J. Verderber. 2,663,339, Dec. 22.
Clarification of distillery slop and the like. G. J. Strexynski. 2,663,718, Dec. 22.
Clamping device with mechanical advantage and delayed release action, Fluid-operated. J. Verderber. 2,663,151, Dec. 22.
Cleaner for car washing machines, Flexible. J. Rende. 2,663,041, Dec. 22.
Cleaning apparatus, Radiator. D. J. Logan. 2,663,304, Dec. 22.
Cleaning machine, Eraser. C. L. Gilbert. 2,663,044, Dec. 22.

Clip: *See*—
Filter plate screen clip. Tire bead lock clip.
Closure and applicator device, Combined. F. Leckler. 2,663,040, Dec. 22.
Closure cap. A. D. Schultz and F. C. Schwendler. 2,663,456, Dec. 22.
Closure-cap device for receptacles. F. Westcott. 2,663,447, Dec. 22.
Closure plug. C. P. Yarnall. 2,663,451, Dec. 22.
Cloth attaching device for ironer rolls. L. J. Schulthels. 2,663,074, Dec. 22.
Clutch: *See*—
Automatic clutch. Centrifugally engaged clutch.
Centrifugal and one-way clutch.
Clutch device. R. Godillon. 2,663,200, Dec. 22.
Clutch for power presses. H. D. Challen. 2,663,394, Dec. 22.
Coated calcium carbonate particles. J. W. Perloff and L. Jacobson. 2,663,695, Dec. 22.
Coated silica particles and product obtained thereby, Preparing. R. K. Iler. 2,663,650, Dec. 22.
Coating with polyethylene. W. E. Railing. 2,663,652, Dec. 22.
Coffee maker, Automatic. M. S. Johnson. 2,663,248, Dec. 22.
Coil assembly, Variable. W. L. Vervest and G. van Gelder. 2,663,849, Dec. 22.
Colander. H. E. Hoagland. 2,663,428, Dec. 22.
Cold extruding a projectile with a rotating band. H. G. Towner. 2,663,068, Dec. 22.
Collar fastener and tie clasp. E. Harrow. 2,663,060, Dec. 22.
Color correction of multicolor film by integral styryl dye masking images. K. O. Ganguin, N. H. Haddock, and E. Macdonald. 2,663,638, Dec. 22.
Coloring hydrophobic fiber. J. W. Gibson, Jr. 2,663,612, Dec. 22.
Coloring nylon fiber. J. W. Gibson, Jr. 2,663,613, Dec. 22.
Comb, brush, and hair receiver, Combination. D. Winchester and E. K. Lotthammer. 2,663,303, Dec. 22.
Combined starter and ignition switch. R. W. Hept and N. H. Weber. 2,663,780, Dec. 22.
Combing machine for working textile fibers founded on the Heilmann principle, Rectilinear. C. Schleifer. 2,663,053, Dec. 22.
Combustion of liquid fuel. F. J. Battershill. 2,663,359, Dec. 22.
Compact filling machine operated by foldable linkage. M. and R. J. Goldberg. 2,663,476, Dec. 22.
Compacting machine for heavy leather. R. W. Daniels, Jr., and J. J. Maciejowski. 2,663,179, Dec. 22.
Compartmented container. E. A. Bourcart. 2,663,450, Dec. 22.
Composing apparatus. J. H. Drillick. 2,663,232, Dec. 22.
Composing machine, Typographical. R. H. Scott and A. S. Hayward. 2,663,408, Dec. 22.
Composite stud. R. C. Friedly. 2,663,270, Dec. 22.
Compressor, Air cooled air. A. C. Eaton. 2,663,492, Dec. 22.
Computer, Elapsed time. L. K. Straus. 2,663,497, Dec. 22.
Computer, Fuze time. N. P. Heydenburg and R. B. Roberts. 2,663,496, Dec. 22.
Concealing defects in a surface. A. E. Kowall. 2,663,651, Dec. 22.
Concentrating milk and product. R. Whitaker and A. C. Herro. 2,663,642, Dec. 22.
Connector: *See*—
Swivel connector.
Constructing printing plates, Means for. A. J. Albrecht. 2,663,349, Dec. 22.
Contact fixture. N. E. Earle and E. E. Leidich. 2,663,844, Dec. 22.
Container: *See*—
Compartmented container.
Container combination, Portable. J. H. Kuhns. 2,663,391, Dec. 22.
Container filling machine. W. de Back. 2,663,480, Dec. 22.
Container for articles of merchandise, Tubular. R. E. Paige. 2,663,489, Dec. 22.
Container for pharmaceuticals and the like. F. E. Brown. 2,663,461, Dec. 22.
Container having a flexible nozzle and a flexible cap. G. W. Benbury and H. W. Ingham. 2,663,463, Dec. 22.
Container with carrying handle. R. H. Johnson. 2,663,485, Dec. 22.
Continuous alkali refining of vegetable oils. A. U. Ayres. 2,663,719, Dec. 22.
Continuous method of preparing novolaks and devices suitable for such methods. H. Bloem and M. Stel. 2,663,699, Dec. 22.
Continuous treating apparatus. A. Goulding, Jr., and M. Jukich. 2,663,052, Dec. 22.
Control apparatus for discharge valves. V. E. Lagrange and D. J. Parmesan. 2,663,459, Dec. 22.
Control device for use in automatic signaling systems. R. B. Buchner. 2,663,760, Dec. 22.
Control for apparatus for dispensing compressed fluid in pulses. G. J. Heckman and E. M. Paterwic. 2,663,310, Dec. 22.

Control system for tandem rotor helicopters. G. W. Magill. 2,663,371, Dec. 22.
Controlling the air supply in furnaces and like heating appliances, Means for. M. W. Thring and F. B. Karthauser. 2,663,272, Dec. 22.
Conversion of hydrocarbon oils. R. B. Ewell. 2,663,675, Dec. 22.
Conveyer and the like having interrupted flights, Screw. H. S. Messing. 2,663,405, Dec. 22.
Conveyer, Bucket. W. A. Melchior and A. R. Graff. 2,663,402, Dec. 22.
Conveyer drive, Self-braking. R. Petterson and L. G. Weygandt. 2,663,404, Dec. 22.
Cooler: *See*—
Beverage cooler. Plate cooler.
Core lifting and setting fixture. M. E. Lentz, A. J. Anderson, and H. L. Driffill. 2,663,058, Dec. 22.
Corrugating machine. R. E. Osborne and S. H. Moyer. 2,663,351, Dec. 22.
Cotton picker. C. W. Toole. 2,663,136, Dec. 22.
Counter-current extraction apparatus. R. T. Anderson. 2,663,623, Dec. 22.
Counting equipment. W. H. Ramsell and E. A. Armstrong. 2,663,495, Dec. 22.
Coupling: *See*—
Self-aligning quick disconnect coupling. Swivel pipe coupling.
Coupling means for coaxial electrical lines. J. R. Bird. 2,663,753, Dec. 22.
Cover: *See*—
Sliding box cover.
Crystalline insulin from acid alcoholic extracts of pancreas glands, Preparing. J. D. H. Homan. 2,663,666, Dec. 22.
Cultivator attachment for tractors. J. A. Bauer. 2,663,240, Dec. 22.
Curl holder. R. N. Palitti. 2,663,302, Dec. 22.
Curve follower. A. L. Holcomb. 2,663,857, Dec. 22.
Cushioning means for dump rakes. M. T. Sjerslee. 2,663,135, Dec. 22.
Cutter: *See*—
Cheese curd cutter.
Cutter and loader, Mechanical sod. A. B. Lancaster. 2,663,242, Dec. 22.
Cutter for film take-up magazines. D. W. McArthur. 2,663,514, Dec. 22.
Demerating and evaporating unit. G. A. Worn. 2,663,286, Dec. 22.
Demerator, Condenser. G. W. Evans, Jr., and W. E. Brockel. 2,663,547, Dec. 22.
Deburring, chamfering, and countersinking tool. A. and J. W. Fried. 2,663,203, Dec. 22.
Decoking of pebbles in pebble heater cracking of hydrocarbons. M. O. Kilpatrick. 2,663,678, Dec. 22.
Decorative streamer. R. G. Owen. 2,663,106, Dec. 22.
Decoy and actuating means therefor, Animated. V. V and J. V. Dixon. 2,663,108, Dec. 22.
Defrosting gas separation systems. C. J. Schilling. 2,663,168, Dec. 22.
Dehydrogenation of a naphthenic hydrocarbon containing a geminal carbon atom. H. Pines and V. N. Ipatieff. 2,663,746, Dec. 22.
Deoxidizing water. W. A. Patrick. 2,663,688, Dec. 22.
Desolventizer vapor recovery system. H. B. Coats. 2,663,089, Dec. 22.
Desulfurization of petroleum oils. M. L. Kalinowski. 2,663,673, Dec. 22.
Detecting apparatus. L. Favara and L. C. Green. 2,663,867, Dec. 22.
Determining the velocity and acceleration characteristics of moving objects, Method and apparatus for. F. E. Tuttle and W. C. Newcomb. 2,663,215, Dec. 22.
Determining the velocity and acceleration characteristics of moving objects. F. E. Tuttle and W. C. Newcomb. 2,663,217, Dec. 22.
Device for anchoring springs. M. Diamond. 2,663,361, Dec. 22.
Device for cleaning Venetian blinds. A. C. Gognen. 2,663,046, Dec. 22.
Device for controlling the fuel supply of heating plants fired with gaseous or liquid fuels, particularly gas fired liquid heaters. W. Brümmerhoff. 2,663,501, Dec. 22.
Device for counting leaves or sheets in piles or packets. A. E. Rosswall. 2,663,567, Dec. 22.
Device for demonstrating the action of snow and ice tires and making the same. R. L. Felker. 2,663,094, Dec. 22.
Device for drawing metal bars. J. R. Tschudnowsky. 2,663,411, Dec. 22.
Device for production of uniform circle graduations. W. Bauersfeld and E. Bernhardt. 2,663,082, Dec. 22.
Device for selectively dispensing ordinary and carbonated water. F. Kostka. 2,663,556, Dec. 22.
Device for truing the grinding wheels of grinding machines. A. Moffu. 2,663,292, Dec. 22.
Dialkoxythiophosphoryl chloride, Preparation of. M. R. Bland and E. J. Young. 2,663,723, Dec. 22.
Diastereoisomeric propane derivatives and process for their manufacture. P. Gailliot and J. Robert. 2,663,727, Dec. 22.
Die for cutting and impressing relatively thin leather. L. E. Benedict. 2,663,180, Dec. 22.
Die head, Automatic pull-off or yoke operated. C. H. Laemmel. 2,663,033, Dec. 22.
Dielectric coaxial line and making same, Slotted. J. F. Blanco. 2,663,754, Dec. 22.
Discharge device for can assorting machines. G. J. Palmer. 2,663,420, Dec. 22.
Disk harrow. A. E. Rutter. 2,663,132, Dec. 22.
Dispenser: *See*—
Cigarette dispenser. Tape dispenser.
Dispenser and applicator, Tape. I. Kaplan. 2,663,444, Dec. 22.
Dispenser for poison grain and the like. T. Lahonen 2,663,464, Dec. 22.
Dispensing apparatus control system, Food. W. I. Bendz. 2,663,477, Dec. 22.
Dispensing mechanism with blade guard, Tape. O. P Erhardt. 2,663,369, Dec. 22.
Display device. S. S. Joslyn. 2,663,527, Dec. 22.
Disposal device for cigars, cigarettes, and like waste materials. C. L. Hooker, Jr. 2,663,504, Dec. 22.
Dissolving apparatus. G. M. Booth. 2,663,553, Dec. 22.
Distributing machine, Typographical. L. Rossetto and G. F. Squassoni. 2,663,406, Dec. 22.
Dolly package. W. A. Roehm. 2,663,415, Dec. 22.
Double-exposure prevention device. H. T. Hodges. 2,663,234, Dec. 22.
Draw press feeding device. W. W. Collins. 2,663,275, Dec. 22.
Drill bit and cutter, Rotary. A. W. Gammerer 2,663,546, Dec. 22.
Drill head. R. Lee. 2,663,202, Dec. 22.
Driving means for slicing machines. H. C Grove 2,663,341, Dec. 22.
Drum handling means for lift trucks, Side grip. L. G Ehmann. 2,663,442, Dec. 22.
Dry gas meter. E. Butterworth and E. J. Hinchcliffe 2,663,189, Dec. 22.
Dumper, Car. F. S. McCune. 2,663,438, Dec. 22.
Duplicating machine. E. M. McNabb. 2,663,578, Dec. 22.
Dynamo-electric machine having a ventilation shield in the air gap. L. T. Rosenberg and J. L. Kuehlthau. 2,663,808, Dec. 22.
Educational device. J. E. Brown. 2,663,091, Dec. 22.
Elastic locking insert secured by thread rolling. H. T. Burdick. 2,663,344, Dec. 22.
Electric circuit protector. W. D. Matthews and T. E. Curtis. 2,663,778, Dec. 22.
Electric discharge apparatus for alternating current motors. W. E. Large and R. F Barrell. 2,663,834, Dec. 22
Electric discharge lamp. H. H. Homer. 2,663,816, Dec 22.
Electric indicating device. J. Amblard 2,663,856, Dec 22.
Electric snap switch. I. W. Cox. 2,663,770, Dec. 22.
Electric treater. E. I. Bailey. 2,663,687, Dec. 22.
Electrical conductor with grounding strand, Shielded A. J. Wier. 2,663,752, Dec 22.
Electrical contact assembly. J. H. F. van Werd and C. H. J. Anderson. 2,663,853, Dec. 22.
Electrical wave transforming system. M. E. Mohr. 2,663,795, Dec. 22.
Electrode support and spacing structure for electron discharge devices. C. T. Goddard 2,663,819, Dec. 22.
Electrolytic chromium from ferrochrome, Production of R. R. Lloyd, J. B. Rosenbaum and V. E. Homme. 2,663,686, Dec. 22.
Electrolytic production of dihydrostreptomycin and salts thereof. G. B. Levy. 2,663,685, Dec. 22.
Electromagnetic wave microwave frequency filter. W. D. Lewis 2,663,848, Dec. 22
Electron discharge device. E. J. Walsh 2,663,818, Dec 22.
Electron-optical image intensifier. M. C. Teves and T Tol. 2,663,814, Dec. 22.
Electrophotographic plate and producing same. A. E. Middleton. 2,663,636, Dec. 22.
Elevator brake. H. Berkovitz. 2,663,387, Dec. 22.
End bell or end bracket for motors. R. A. Stein. 2,663,810, Dec. 22.
End closure for pup joints used in coating the interior of pipe lines. A. C. Curtis. 2,663,326, Dec. 22.
Engagement station for automatic pilots. F. H. S. Rossire. 2,663,519, Dec. 22.
Engine: *See*—
Thermojet engine.
Ester modified polyamide resins. W. B. Winkler 2,663,649, Dec. 22.
Evaporator. J. F. Young. 2,663,160, Dec. 22.
Excavating and cable laying machine. A. S. Kinsinger. 2,663,515, Dec. 22.
Extension light. B. A. Novak. 2,663,793, Dec. 22.
Extensometer. A. C. Ruge. 2,663,085, Dec. 22.
Extractive distillation of alcohols obtained from olefins. W. M. Drout, Jr. 2,663,679, Dec. 22.
Extractive distillation of allyl alcohol from n-propyl alcohol. N. C. Robertson. 2,663,680, Dec. 22.
Extricating motor vehicles from mudholes, Means for. J. P. Piltz. 2,663,503, Dec. 22.
Fan, Electric. C. J. Burkland. 2,663,494, Dec. 22.
Fan means for generator ventilation, Separately mounted. R. A. Bandry. 2,663,807, Dec. 22.
Fastener: *See*—
Sanitary fastener.
Faucet, Mixing valve. A. M. El Shayeb. 2,663,317, Dec. 22.

Fertilizer, Leaf or vegetable. W. L. Semon. 2,663,629, Dec. 22.
Fiberizing mineral materials, Method and apparatus for. B. A. Graybeal. 2,663,051, Dec. 22.
Fifth wheel jaw wear compensating means. H. Ketel. 2,663,575, Dec. 22.
Filling head having overflow valve check means. C. L. Day and J. E. Freeze. 2,663,483, Dec. 22.
Filling machine. F. W. Krueger and W. de Back. 2,663,481, Dec. 22.
Film winder, Motion-picture. A. K. Hichman. 2,663,509, Dec. 22.
Filter: *See*—
Electromagnetic wave filter. Inclined rotary vacuum microwave frequency filter. Rotary electrostatic filter.
Filter. R. H Curtis. 2,663,430, Dec. 22.
Filter and strainer, Liquid or gas self-cleaning. L. T. Bossard 2,663,429, Dec. 22
Filter construction. Centrifugal oil. G. T. Bynum, 2,663,424, Dec. 22
Filter plate screen clip. F. H. Clarke. 2,663,431, Dec. 22.
Filter surface wash nozzle. P. F. Pew. 2,663,591, Dec. 22
Finely divided calcium silicate, Preparing. W. Platt. 2,663,619, Dec. 22.
Finger to piano key indicator. L. Wallace. 2,663,211, Dec. 22.
Firing head assembly for fuel burners. R. W. De Lancey. 2,663,365, Dec. 22.
Fish lure. C. K. McMillin. 2,663,112, Dec. 22.
Fish lure guard. K. A. Hollingsworth. 2,663,111 Dec. 22
Fish trapping apparatus. L. A. Ederer 2,663,117, Dec. 22.
Fishing leader holder. L. C. Warner. 2,663,114, Dec. 22
Fishing line attachment. J. Masi. 2,663,109, Dec. 22.
Fishing line sinker. A. N. Tongson. 2,663,113, Dec. 22
Fishing signal. P. Guzy. 2,663,110, Dec. 22.
Flange connecting means. A. W. Gardes. 2,663,586, Dec. 22.
Flashlight attachment, Writing implement. C. R. Hetrick. 2,663,791, Dec. 22.
Flexible sleeve Iris valve. W. Douglass and A. C. Ellis. 2,663,467, Dec. 22.
Float switch. R. J. Cochrane. 2,663,772, Dec. 22
Fluid medium operated time delay apparatus. H. C Grant, Jr. 2,663,153, Dec. 22.
Fluid pressure control valve. G. P. Dorscheid. 2,663,316, Dec. 22.
Fluid seal. J. R. C. Waterston. 2,663,385, Dec. 22.
Fluid substance depositor for filling continuously moving receptacles. M. C. Jahn, W. E. Shapcott, and D. W Smith. 2,663,478, Dec. 22.
Fluid treating tank for photographic developing. W. G Blankenship, Jr., and G. S. McCloy. 2,663,236, Dec. 22
Foldable coat hanger. J. G. Albert. 2,663,470, Dec. 22
Foot well for strollers, Adjustable. M. D. Welsh. 2,663,589, Dec. 22.
Forging process and apparatus. H. Allen 2,663,205, Dec. 22.
Forming spools. F. J. Bleber and L. E Overholt. 2,663,073, Dec. 22.
4-hydroxy-7,8-phthaloyl-cinnolines and preparing same. F. Ebel. 2,663,708, Dec. 22.
Frame for photographs and pictures. G. P. Woodbury. 2,663,105, Dec. 22
Frozen food cabinet. Ernest E., G. E., and Ellsworth E. Sanders. 2,663,158, Dec. 22.
Fuel-distance meter. F. Nieburg. 2,663,186 Dec. 22.
Fuel system for ram jets. N. C. Price. 2,663,140, Dec. 22.
Furnace conveyer element. M. N. Ornitz and R. H. English. 2,663,558, Dec. 22.
Fuse cutout and switch, Combination. R. H. Amundson. 2,663,825, Dec. 22.
Garage, air-raid shelter or the like. F. Calola. 2,663,437, Dec. 22.
Garage, Semiautomatic parking. V. C. Bowser. 2,663,436, Dec. 22.
Garment hanger. A. A. Pedersen. 2,663,471, Dec. 22
Garment, Infant's. H. Aaronson. 2,663,022, Dec. 22.
Gas separation apparatus and method. S. C. Collins. 2,663,167, Dec. 22.
Gas turbines. S. D. Hage. 2,663,141, Dec. 22.
Gauge: *See*—
Micrometer gauge.
Gear drive, Antivibration. F. R. Grunner. 2,663,201, Dec. 22.
Generator: *See*—
Ultrahigh-frequency oscillation generator.
Glass, Illuminated drinking. R. E. Simpson. 2,663,866, Dec. 22.
Glide path control system. F. L. Moseley. 2,663,520, Dec. 22.
Golf bag support. C. M. Hadley. 2,663,528, Dec. 22.
Gradiometer, Magnetic. W. E. Wickerham and O. K. Doolen. 2,663,843, Dec. 22.
Gravity suspension hanger. R. K. and T. B. Farrington and R. F. Kurzenberger. 2,663,536, Dec. 22.
Grease containing diphenyl P-phenylene diamine and a phosphorus acid ester and making said grease. J. P. Dilworth. 2,663,691, Dec. 22.
Gun barrels, Manufacture of smoothbore. P. D. Kessler. 2,663,410, Dec. 22.
Gyroscope system for dirigible craft. I. M. Holliday, G. R. Douglas, and C. R. Hanna. 2,663,838, Dec. 22.
Haloarylhydroxyalkyl-ureas. N. E. Searle and C. W. Todd. 2,663,729, Dec. 22.
Ham pumping. B. T. Hensgen and H. G. Reichel. 2,663,247, Dec. 22.
Hammer element, Impact. P. E. Schmid. 2,663,395, Dec. 22.
Hammer for pulverizers, Rotary impact. C. E. Sennholtz. 2,663,505, Dec. 22.
Handbag. S. Hyman. 2,663,343, Dec. 22.
Handle end holder and installation. D. I. Reiter. 2,663,342, Dec. 22.
Handling fermentation gas, Method and apparatus for. F. A. Craig. 2,663,154, Dec. 22.
Hanger: *See*—
Article wall hanger. Gravity suspension hanger.
Foldable coat hanger. Hydraulic spring hanger.
Garment hanger.
Hardness tester. H. Broschke. 2,663,185, Dec. 22.
Harness for invalid hoists. J. H. Kalrhoff. 2,663,031, Dec. 22.
Hat, Collapsible. A. Cantor. 2,663,024, Dec. 22.
Hatchway closure. K. J. Ahnell. 2,663,268, Dec. 22.
Headlight tester. J. P. Carr. 2,663,216, Dec. 22.
Head rail, Venetian blind closed. B. Walker. 2,663,368, Dec. 22.
Head support. H. B. and E. G. Whitley. 2,663,029, Dec. 22.
Heat and pressure element for welding thermoplastic films. E. V. Dettner. 2,663,350, Dec. 22.
Heat exchanger. W. Gloyer. 2,663,170, Dec. 22.
Heat exchanger envelope comprising notched channels mounting sinuous fin elements. W. E. Hammond and C. A. Ballard. 2,663,550, Dec. 22.
Heat exchanger, Spiral. P. S. Otten. 2,663,549, Dec. 22.
Heat processing of fine-grained material, particularly cement raw material. F. Müller and L. H. Winners. 2,663,560, Dec. 22.
Heat sealer. H. A. Rohdin. 2,663,353, Dec. 22.
Heat transfer apparatus, Tubular. E. Jantsch. 2,663,321, Dec. 22.
Heat-treatment apparatus. J. A. Redmond. 2,663,789, Dec. 22.
Heater for supplying hot gases. T. H. Ransome. 2,663,362, Dec. 22.
Heating device. C. Z. Alexander. 2,663,787, Dec. 22.
Helicopter rotor control mechanism. W. Vandermeer. 2,663,374, Dec. 22.
High-temperature sodium myristate grease containing N,N'-diphenyl para-phenylene diamine. G. W. Eckert. 2,663,690, Dec. 22.
Hold-down for jig saws or the like. H. D. Herder. 2,663,331, Dec. 22.
Holder: *See*—
Cigarette holder. Lipstick holder.
Curl holder. Record holder.
Fishing leader holder.
Hone, Expandable. J. F. Smole and A. Collier. 2,663,124, Dec 22
Hood construction, Hair drying. L. R. Flaxman. 2,663,090, Dec. 22.
Hose and coupling therefor, Multiple passage flexible. J. A. Bede. 2,663,325, Dec. 22.
Hose shutoff device, Portable. O. J. Magne. 2,663,537, Dec. 22.
Hosiery board. F. M. Southerland. 2,663,469, Dec. 22.
Huller and sheller, Nut. A. D. Goodwin. 2,663,340, Dec. 22.
Humidifying system and apparatus. G. B. Holtzclaw. 2,663,500, Dec. 22.
Humidity indicator. L. M. Ilgenfritz. 2,663,190, Dec. 22.
Hydantoin and glycine, Production of. H. C. White and D. V. Wysong. 2,663,713, Dec. 22.
Hydrated lime composition and process. H. N. Huntzicker. 2,663,647, Dec. 22.
Hydraulic motor. C. P. Gwen. 2,663,541, Dec. 22.
Hydraulic spring hanger. E. R. Hinckle. 2,663,534–5, Dec. 22.
Hydraulic system and multipurpose control valve. W. C. Dolch. 2,663,150, Dec. 22.
Hydrogenated benz [cd] indoles. E. C. Kornfeld. 2,663,714, Dec. 22.
Hydroxy and methoxy cyclohexylbenzoylpropionic acids. R. R. Burtner. 2,663,728, Dec. 22.
Hydroxy-benzimidazoles and their preparation. V. Tulagin. 2,663,712, Dec. 22.
Ice chest for storing foods and the like, Portable. R. C. Laramy. 2,663,157, Dec. 22.
Ice cream filler, Automatic. P. Gilberty. 2,663,482, Dec. 22.
Ice-machine, Tubular. G. Trépaud. 2,663,162, Dec. 22.
Ileostomy pouch holder and skin-protector. H. J. Shull. 2,663,299, Dec. 22.
Implement for turning litter in poultry houses. C. W. Milliken. 2,663,555, Dec. 22.
Improving alcohol quality. S. W. Wilson and E. T. Delaune. 2,663,426, Dec. 22.
Improving alcohol quality. S. W. Wilson. 2,663,745, Dec. 22.
Incandescent cathodes, Making. G. A. Espersen. 2,663,069, Dec. 22.

Inclined rotary vacuum filter. R. J. Johansen. 2,663,432, Dec. 22.
Indicating optical image projection apparatus for projectors. J. Y. Taylor. 2,663,220, Dec. 22.
Indicator: *See*—
Battery indicator. Humidity indicator.
Finger to plano key indicator.
"Indirect" oxidation-splitting of acetylenic gamma glycols. A. Brotham. 2,663,715, Dec. 22.
Installation for dewatering slimes. E. Riedel. 2,663,427, Dec. 22.
Installation of underground transmission pipe. L. E. Thomas. 2,663,323, Dec. 22.
Insulated slip-joint device. R. M. Shirk. 2,663,580, Dec. 22.
Insulating apparatus, Wire. C. J. Krogel. 2,663,229, Dec. 22.
Insulating structure and assembling. W. G. Spiegelhalter. 2,663,448, Dec. 22.
Interlocking mechanism for elevator doors. B. W. Tucker, Jr. 2,663,383, Dec. 22.
Invalid lift and transfer device. B. R. Dahlberg. 2,663,030, Dec. 22.
Ion trap. G. J. Mucher. 2,663,815, Dec. 22.
Iron: *See*—
Steam iron. Waffle iron.
Ironing table. K. B. Olander. 2,663,101-2, Dec. 22.
Jack. C. W. Lincoln, G. G. Kearful, and D. A. Galonska. 2,663,542, Dec. 22.
Jar unscrambler and inverter. C. E. Dascomb. 2,663,401, Dec. 22.
Joining sheet metal or the like. J. Pfistershammer. 2,663,072, Dec. 22.
Joint. R. V. Moran. 2,663,584, Dec. 22.
Joint construction in a segmented inflatable fabric member. R. L. Miller. 2,663,659, Dec. 22.
Ketone-diarylamine condensates, Preparation of. I. Mankowich. 2,663,734, Dec. 22.
Keyboard steadying device for accordions and similar instruments. A. Montenare. 2,663,210, Dec. 22.
Key plug for spectator announcement systems for public events. E. R. and R. E. Mellinger and D. B. Howard. 2,663,850, Dec. 22.
Kinescope. Masked target. H. B. Law. 2,663,821, Dec. 22.
Knockoff and letback means for looms. W. J. Budzyna and W. H. Banks. 2,663,328, Dec. 22.
Knot form. L. R. Thorpe. 2,663,023, Dec. 22.
Ladder bracket. W. MacPherson. 2,663,484, Dec. 22.
Lamp: *See*—
Blown arc lamp. Electric discharge lamp.
Lampholder for tubular lamps, Lamp locking. J. M. Pistey. 2,663,851, Dec. 22.
Lap tray with leg engaging means. I. Newman. 2,663,603, Dec. 22.
Lasting machine. B. Jorgensen. 2,663,036-7, Dec. 22.
Lasting machine. L. G. Miller. 2,663,035, Dec. 22.
Lasting machine. H. Schwabe. 2,663,034, Dec. 22.
Latch: *See*—
Screen door safety latch.
Latching assembly for windows and the like. W. J. Woodhams. 2,663,587, Dec. 22.
Lawn edger. C. T. Asbury. 2,663,137, Dec. 22.
Leaching manganese ore. B. R. Babbitt and C. B. Kunz. 2,663,618, Dec. 22.
Leaf spring end spacer and cushioning device. J. W. Watson. 2,663,563, Dec. 22.
Lens panel, Vehicle light controlling. A. L. Arenberg. 2,663,794, Dec. 22.
Lens with reduced spherical aberration and chromatic difference of spherical aberration, Three-element objective. S. Rosin and A. M. Bottalico. 2,663,222, Dec. 22.
Leveling machine, Land. H. W. Klages. 2,663,099, Dec. 22.
Lever construction, Pallet. J. Fink. 2,663,130, Dec. 22.
Lifting apparatus. B. Johnston and J. C. Mason. 2,663,285, Dec. 22.
Light: *See*—
Extension light.
Lighter for automobiles, Magazine cigarette. C. B. Cronan. 2,663,606, Dec. 22.
Lightning arrester. E. J. De Val and O. Ackermann. 2,663,817, Dec. 22.
Lignin fertilizer base, Making a. A. M. Thomsen. 2,663,628, Dec. 22.
Line shaft guide bearing. T. R. Mackay and P. L. Angel. 2,663,599, Dec. 22.
Lipstick holder. S. Frydlender. 2,663,414, Dec. 22.
Liquid intake, Floating. W. E. Haselwood. 2,663,425, Dec. 22.
Liquid sampling device. A. L. Segelhorst and M. F. Spurlock. 2,663,192, Dec. 22.
Loading device, Boat. J. N. McMillan. 2,663,473, Dec. 22.
Loading machine for shells, including automatic inspection means. W. S. Reynolds, J. R. Turner, and L. C. Frandsen. 2,663,421, Dec. 22.
Locking device for containers, Corner. C. F. Gibbons. 2,663,488, Dec. 22.
Locking device for manually operated circuit breakers, Safety. C. P. Sorensen. 2,663,768, Dec. 22.
Lockup device, Printer's. H. J. Hilland. 2,663,258, Dec. 22.
Loom: *See*—
All hand weaving adjustable loom. Ribbon loom.
Loose-leaf book construction. G. T. Fielding. 2,663,577, Dec. 22.
Lubricated wing nut. N. D. Davidson and E. J. Henderson. 2,663,213, Dec. 22.
Machine for applying end stops to slide fasteners. J. G. Soave. 2,663,018, Dec. 22.
Machine for coating frankfurters. G. J. and R. J. Wright. 2,663,281, Dec. 22.
Machine for fabricating capsules from elastic films. A. M. Donofrio. 2,663,129, Dec. 22.
Machine for making bed springs. C. H. Gail. 2,663,038, Dec. 22.
Machine for making frames. B. E. Rockhoff and J. Mayer. 2,663,204, Dec. 22.
Making metal strip, Means and method of. L. Iversen. 2,663,784, Dec. 22.
Making plywood from wood waste and product resulting therefrom. C. U. Gramelspacher. 2,663,661, Dec. 22.
Manifold sheet and making same. J. G. Zimmerman. 2,663,653, Dec. 22.
Manifolding transfer and making. J. G. Zimmerman. 2,663,579, Dec. 22.
Manipulation of nitrogen-contaminated natural gases. L. S. Twomey. 2,663,169, Dec. 22.
Massager, Foot. W. M. Elliott. 2,663,293, Dec. 22.
Materials handling apparatus. J. F. Joy. 2,663,143, Dec. 22.
Means to facilitate the laying of masonry units. P. H. Sommers. 2,663,182, Dec. 22.
Means to indicate temperature and electric failure. J. N. MacInnes and P. H. Gerard. 2,663,858, Dec. 22.
Measuring device, Liquid. A. L. Coderre. 2,663,084, Dec. 22.
Measuring instrument, Clamp on type electrical. S. J. Koch. 2,663,845, Dec. 22.
Measuring system, Calibrating. G. E. Beggs, Jr., and A. W. Kozak. 2,663,855, Dec. 22.
Mechanism for producing speed indicating markings on the edges of rapidly moving film. C. M. Tuttle and E. O'Neil. 2,663,611, Dec. 22.
Metal powders, Production of. L. Schlecht and E. Oestreicher. 2,663,630, Dec. 22.
Meter: *See*—
Dry gas meter. Fuel-distance meter.
Metering and flow indicating device, Liquid. S. C. Nelson. 2,663,188, Dec. 22.
Method and machine for making capsules. F. E. Stirn and A. S. Taylor. 2,663,128, Dec. 22.
Method and system for stabilizing the frequency of oscillators. W. D. Hershberger. 2,663,798, Dec. 22.
Methylal, Production of. L. K. Frevel and J. W. Hedelund. 2,663,742, Dec. 22.
Micrometer gauge. F. Romano. 2,663,087, Dec. 22.
Milk powder and its preparation. F. F. Hansen. 2,663,643, Dec. 22.
Milk powder, Preparation of. F. F. Hansen. 2,663,644, Dec. 22.
Mirror for automobiles, Rearview. D. Younglove. 2,663,224, Dec. 22.
Mirror means, Rearview. C. D. Blan. 2,663,225, Dec. 22.
Miticidal dihydrazide composition. J. Shore. 2,663,664, Dec. 22.
Mixed indicator composition. J. V. Corso and R. C. Ulmer. 2,663,692, Dec. 22.
Mixer unit, Power. F. C. Schwaneke. 2,663,552, Dec. 22.
Mold and core, Centrifugal. R. J. Miller. 2,663,059, Dec. 22.
Mold structure for dielectric heating. G. E. Gard. 2,663,790, Dec. 22.
Molding machine and molding. H. A. Van Loon. 2,663,063, Dec. 22.
Mop having hinged backing plates for wringing. J. F. Bagley, Jr. 2,663,039, Dec. 22.
Mophead, Self-adjusting. W. H. and W. F. Richards. 2,663,042, Dec. 22.
Mortising device, Portable router-type. W. H. Gohm, Sr. 2,663,335, Dec. 22.
Mortising jig, Hinge seat. T. H. Brown. 2,663,333, Dec. 22.
Motor: *See*—
Hydraulic motor.
Motor control system, Electric. I. W. Lichtenfels. 2,663,836, Dec. 22.
Motor with a field responsive fluid clutch, Electric. W. M. Winslow. 2,663,809, Dec. 22.
Motor with reversing mechanism and control, Outboard. D. A. Armstrong, B. Carlson, and C. A. Walz. 2,663,277, Dec. 22.
Mounting: *See*—
Article elevating caster mounting.
Mounting for easels. A. T. Rubano. 2,663,531, Dec. 22.
Mower attachment for tractors. R. B. Davis. 2,663,133, Dec. 22.
Muffler, Baffle type. W. Keller. 2,663,378, Dec. 22.
Multicolor job or proof press. J. R. Parrish. 2,663,254, Dec. 22.
Multicolor proof press. J. R. Parrish. 2,663,255, Dec. 22.
Multiple mode closed-cycle control system. D. C. McDonald, K. C. Mathews, and R. C. Boe. 2,663,832, Dec. 22.

N-alkyl-N'-(p-hydroxyphenyl) ureas. E. F. Hill and D. O. De Free. 2,663,730, Dec. 22.
N-naphthyl maleamic esters. W. B. Ligett, C. N. Wolf, and R. D. Closson. 2,663,665, Dec. 22.
Nailable material from natural rubber or butadiene-styrene copolymer, plasticizer, cellulose, and asbestos. C. B. Hess and H. M. Richardson. 2,663,693, Dec. 22.
Nasal adapter for oxygen inhalation. C. F. Turnberg. 2,663,297, Dec. 22.
Needle for use in needle looms or interlacing machines, Barbed felting. A. T. Dinham. 2,663,065, Dec. 22.
Neutron detector. P. E. Ohmart. 2,663,802, Dec. 22.
Nitriliotripropionamide, Preparation of. L. A. Subluskey. 2,663,733, Dec. 22.
Noise suppression device. D. R. de Boisblanc. 2,663,765, Dec. 22.
Noncatalytic condensation of aromatic compounds with unsaturated organic compounds. H. Pines and V. N. Ipatieff. 2,663,724, Dec. 22.
Nozzle adapter seat refacing device. F. A. Licciardello. 2,663,227, Dec. 22.
Nozzle, Flexible supersonic. H. J. Allen and R. N. Olson. 2,663,322, Dec. 22.
Nozzle, Phosphorizing. J. R. Wyatt. 2,663,590, Dec. 22.
O,O-dialkyl O-para nitrophenyl thiophosphate esters, Preparation of. M. N. Dvornikoff and E. J. Young. 2,663,721, Dec. 22.
Oil gas process and apparatus. P. L. Born. 2,663,625, Dec. 22.
Oil separator and pressure regulating device for aircraft ice eliminating systems. D. M. Lawrence. 2,663,522, Dec. 22.
Oiler, Cattle and hog. W. J. Stonesifer. 2,663,284, Dec. 22.
1-alkyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline compounds. P. N. Craig and F. P. Nabenhauer. 2,663,709, Dec. 22.
1-substituted-4-aminopiperazines and preparing the same. E. A. Conroy. 2,663,706, Dec. 22.
Opener, Can. W. J. and C. T. Fortune. 2,663,077, Dec. 22.
Operating device for hookless or slide fasteners. L. I. Scheldorfer. 2,663,588, Dec. 22.
Operating mechanism for compressible sealing closures for hoppers. R. E. Heltzel. 2,663,466, Dec. 22.
Ophthalmic instrument. C. A. Ellis. 2,663,219, Dec. 22.
Optical device for correlating observer reading arousal valves. E. L. Ranseen. 2,663,218, Dec. 22.
Optical device for golf instruction. R. S. Douglass. 2,663,021, Dec. 22.
Optical objective comprising six lenses grouped into three air spaced components. L. J. Bertele. 2,663,221, Dec. 22.
Optical system, Variable magnification. H. H. Hopkins. 2,663,223, Dec. 22.
Organic esters, Preparation of. E. F. Hill. 2,663,720, Dec. 22.
Ornamental crystalline glaze. H. G. Schurecht. 2,663,658, Dec. 22.
Ornamental object having polarizing and birefringent layers. P. Boone. 2,663,171, Dec. 22.
Oscillator system, Frequency controlled. G. B. Herzog. 2,663,800, Dec. 22.
Outboard motor carrier. E. J. Kelly. 2,663,474, Dec. 22.
Outlet box with overlapped knockouts. O. J. Olson. 2,663,454, Dec. 22.
Oxidation of aromatic hydrocarbons. G. M. Calhoun and J. E. Reese. 2,663,740, Dec. 22.
Packet. M. J. Cerino. 2,663,412, Dec. 22.
Packing element. E. B. Kincaid. 2,663,417, Dec. 22.
Pad: *See*—
Pneumatic injury pad.
Pancake making machine. H. Epstein. 2,663,249, Dec. 22.
Panel, Cube-supporting. H. V. Bolding and E. G. Gowens. 2,663,419, Dec. 22.
Paper, Heat-sensitive copying. C. S. Miller and B. L. Clark. 2,663,654-7, Dec. 22.
Paper ruling, assembling, and stapling machine. E. K. E. Meffert. 2,663,564, Dec. 22.
Parachute flap. P. F. Smith. 2,663,524, Dec. 22.
Parachute pack. J. F. Smith. 2,663,525, Dec. 22.
Parallel compressor arrangement in refrigerating system. L. M. Kurtz. 2,663,164, Dec. 22.
Parking elevator, Motor vehicle. F. Romain. 2,663,446, Dec. 22.
Parking system and structure, Car. W. M. Eliot. 2,663,435, Dec. 22.
Partition structure. F. J. Horil, Jr. 2,663,054, Dec. 22.
Patch applicator, Reinforcing. A. Perrotti. 2,663,445, Dec. 22.
Patching machine, Veneer sheet. R. V. Peterson. 2,663,332, Dec. 22.
Pendulum and acceleration compensation system. R. T. Cloud. 2,663,088, Dec. 22.
Phase changer. A. G. Clavier and D. L. Thomas. 2,663,847, Dec. 22.
Phenol and ketones by decomposition of hydroperoxides, Production of. L. J. Filar and M. A. Taves. 2,663,735, Dec. 22.
Phenol, Manufacture of. T. Bewley and F. J. Wilkins. 2,663,743, Dec. 22.
Phosphoric acid derivatives and preparing the same. R. P. Parker, D. R. Seeger, and E. Kuh. 2,663,705, Dec. 22.
Photographically light-sensitive silver halide-diazide/colloid layers. M. K. Reichel and W. Neugebauer. 2,663,640, Dec. 22.
Pile-driving. L. Hart. 2,663,152, Dec. 22.
Pilot valve and main valve, Solenoid operated. J. Marinelli. 2,663,319, Dec. 22.
Piston assembly for reciprocating compressors. C. A. Dubberley. 2,663,601, Dec. 22.
Piston for high-pressure cylinders, Packed. D. H. Newhall. 2,663,600, Dec. 22.
Piston ring. E. R. Olsen. 2,663,602, Dec. 22.
Pitch control of helicopter coaxial rotors, Variable. I. I. Sikorsky. 2,663,372, Dec. 22.
Pitch propeller, Reversible. N. R. Richmond. 2,663,373, Dec. 22.
Plate cooler. C. Boling. 2,663,551, Dec. 22.
Plating copper, Method of and composition for. W. J. Pierce. 2,663,684, Dec. 22.
Playing cards, Personalized picture. E. Grunwald. 2,663,418, Dec. 22.
Plug: *See*—
Closure plug.
Plumbing fixture, Diverter spout. S. Kersten and A. F. Sautter. 2,663,539, Dec. 22.
Plumping leather with a sol of large silica particles. I. L. Haag. 2,663,614, Dec. 22.
Pneumatic agitator for washing machines. H. H. Schwartz. 2,663,178, Dec. 22.
Pneumatic injury pad. C. A. Cushman. 2,663,020, Dec. 22.
Pneumatic suspension for vehicles. R. Goutrand. 2,663,569, Dec. 22.
Polymerizing certain unsaturated compounds in an aqueous system. G. S. Rónay and J. R. Vinograd. 2,663,701, Dec. 22.
Polymers of 3-methylenephthalide and preparation. H. W. Coover, Jr., J. B. Dickey, and N. H. Shearer. 2,663,697, Dec. 22.
Poultry processing method. D. B. Van Dolah. 2,663,049, Dec. 22.
Power lift tractor hitch for earth working implements. H. B. Rapp and L. E. Heckathorn. 2,663,239, Dec. 22.
Power plant, Combined gas and steam. R. G. Legendre. 2,663,146, Dec. 22.
Power plant, Combined gas and steam. V. F. A. Nordström and D. A. Morosoff. 2,663,144, Dec. 22.
Power plant comprising the combination of gas and steam turbines with a supercharged furnace steam-generator. R. F. M. Waeselynck. 2,663,145, Dec. 22.
Power plant installation, Aircraft. N. C. Price. 2,663,517, Dec. 22.
Power transmitting device for overhead garage doors. J. H. Grenzeback. 2,663,047, Dec. 22.
Precision measuring device. J. Verderber. 2,663,598, Dec. 22.
Press: *See*—
Multicolor job or proof Multicolor proof press.
Pressure pickup element. H. F. Rundell. 2,663,781, Dec. 22.
Pressure regulating valve. N. F. Cornelius. 2,663,122, Dec. 22.
Primary cell. A. J. Warner and A. R. Gobat. 2,663,749, Dec. 22.
Priming composition. J. F. Kenney. 2,663,627, Dec. 22.
Printing machine, Selective hectographic. E. C. Sauerman, A. J. Hopkins, Joseph and John Erwood. 2,663,253, Dec. 22.
Printing plate preparation. W. H. Wood and D. N. Adams. 2,663,639, Dec. 22.
Process and composition for producing improved viscose. G. C. Yehling, Jr. 2,663,704, Dec. 22.
Processing hydrocarbons. R. T. Savage and E. H. Ivey, Jr. 2,663,677, Dec. 22.
Producing closed end tubing, Method and means for. R. L. and R. E. Whiting. 2,663,206, Dec. 22.
Producing edible coatings for edible products. A. J. Kloess. 2,663,269, Dec. 22.
Producing integral color correction masks. K. O. Ganguin and N. H. Haddock. 2,663,637, Dec. 22.
Producing synthetic tannins by dehydrating and sulfonating a novolak resin in a vacuum. E. D. Compton. 2,663,698, Dec. 22.
Projecting device for pin ball amusement apparatus. L. A. Durant. 2,663,568, Dec. 22.
Propenyl-guaethol and making same. S. P. Joffre. 2,663,741, Dec. 22.
Protecting device for circuit breakers. A. Viboud and A. Gras. 2,663,779, Dec. 22.
Protective device. A. T. Stratton. 2,663,776, Dec. 22.
Protector: *See*—
Electric circuit protector.
Puller: *See*—
Weed puller.
Pulp beater or disintegrator. R. J. Serpas. 2,663,228, Dec. 22.
Pump: *See*—
Retrievable well pump. Rotary pump.
Pump and motor hydraulic transmission, Rotary. J. H. Dameron. 2,663,147, Dec. 22.
Pump with sealing device, Centrifugal. E. Malmvik and E. Dunér. 2,663,262, Dec. 22.
Pumping liquefied gases, Method of and apparatus for. C. R. Anderson. 2,663,166, Dec. 22.

Purification of alcohols by azeotropic distillation. B. Traeger and W. Rottig. 2,663,682, Dec. 22.
Purification of straight-chain monohydric alcohols. R. A. Dinerstein. 2,663,703, Dec. 22.
Purification of sulfonated alkenyl aromatic resins. H. H. Roth and H. B. Smith. 2,663,700, Dec. 22.
Purification of urea. W. Michelitsch. 2,663,731, Dec. 22.
Pyridine alcohols from pyridine N-oxides, Preparation of. O. H. Bullitt, Jr. 2,663,711, Dec. 22.
Pyrolysis of diacyl cyanides. A. E. Ardis. 2,663,726, Dec. 22.
Pyrolysis of diacyl cyanides. L. F. Reuter and R. D. Smith. 2,663,725, Dec. 22.
Quaternarizing polymers of N,N di-methyl-p-aminostyrene. E. L. Kropa. 2,663,702, Dec. 22.
Railroad track appliance. S. W. Hayes. 2,663,526, Dec. 22.
Ratchet operating mechanism. J. B. Tucker. 2,662,193, Dec. 22.
Razor, Automatic blade holding. E. T. Yonamine. 2,663,080, Dec. 22.
Razor, Safety. J. T. Hellmann. 2,663,078, Dec. 22.
Reactor. L. E. Sauer. 2,663,828, Dec. 22.
Receptacle base and cover operating mechanism. E. V. Lyttaker. 2,663,529, Dec. 22.
Receptacle for safety razor blades. K. B. Peterson. 2,663,079, Dec. 22.
Reclining chair. A. J. Bellsle. 2,663,357, Dec. 22.
Reconditioning apparatus for doffer assemblies. C. R. Worthington. 2,663,123, Dec. 22.
Record apparatus and method. C. W. Helm, Jr. 2,663,050, Dec. 22.
Record holder. C. B. Hirsch. 2,663,416, Dec. 22.
Recorder, Electrical. T. A. Rich. 2,663,610, Dec. 22.
Recorder, Speed. E. P. Jones. 2,663,609, Dec. 22.
Recovery of lower acid anhydrides by distillation. D. C. Hull and W. R. Saunders. 2,663,681, Dec. 22.
Reducing ferrous chloride in the gaseous phase with hydrogen to produce metallic iron. H. L. Crowley, M. E. Graham, and E. A. Beidler. 2,663,633, Dec. 22.
Reduction of iron ores. A. G. Oppegaard. 2,663,632, Dec. 22.
Reduction of oxides. H. E. Tschop, J. E. Carter, and C. B. Goodrich. 2,663,631, Dec. 22.
Reel construction, Film. J. F. Herrmann and W. A. Gilbert. 2,663,513, Dec. 22.
Reel mechanism. J. E. Erhardt, Jr. 2,663,512, Dec. 22.
Refining sour hydrocarbon oils. J. H. Krause and R. H. Brown. 2,663,674, Dec. 22.
Refrigerating apparatus. H. L. Davies. 2,663,604, Dec. 22.
Refrigeration evaporator. F. A. Schumacher. 2,663,161, Dec. 22.
Refrigerator employing secondary refrigeration system. H. M. Ulistrand. 2,663,159, Dec. 22.
Register outlet for warm air house-heating systems. J. R. MacDowell. 2,663,244, Dec. 22.
Regulated power supply. J. N. Marshall. 2,663,839, Dec. 22.
Regulated power supply. P. H. Wells, A. A. Steinmetz, and W. D. Cannon. 2,663,759, Dec. 22.
Regulator and relief valve, Combination pressure reducing. G. S. Ramsey. 2,663,121, Dec. 22.
Regulator for injection combustion engines. H. K. Links. 2,663,289, Dec. 22.
Retrievable well pump. A. G. Gage. 2,663,261, Dec. 22.
Reversal images, Production of. A. Rott. 2,663,641, Dec. 22.
Ribbon loom. M. G. Brooks. 2,663,214, Dec. 22.
Rice bran oil process. G. J. Strezynski and F. E. Lawatsch. 2,663,717, Dec. 22.
Rig mount, Portable. O. D. Caldwell. 2,663,375, Dec. 22.
Ring: *See*—
Piston ring.
Roof for sewage digesting apparatus, Floating. J. H. Wiggins and J. W. Allen. 2,663,453, Dec. 22.
Roof or cover for liquid storage tanks, Floating. J. H. Wiggins. 2,663,452, Dec. 22.
Rotary electrostatic filter. C. W. Savitz. 2,663,380, Dec. 22.
Rotary pump. E. Mayus and W. G. See. 2,663,263, Dec. 22.
Rotary pump. E. M. Michalitsianos. 2,663,264, Dec. 22.
Rotary rat fatigue machine. D. J. Ingle. 2,663,282, Dec. 22.
Rotary valve. R. B. Walder. 2,663,290, Dec. 22.
Runner and base, Combination. G. B. Collman. 2,663,181, Dec. 22.
Rupture diaphragm unit. W. F. MacGlashan, Jr. 2,663,458, Dec. 22.
Safety attachment for tape operated line casting machines. P. Hilpman. 2,663,407, Dec. 22.
Safety device for monorail cars. H. Omsted. 2,663,267, Dec. 22.
Sanitary fastener. R. O. Henszey. 2,663,212, Dec. 22.
Saw, Automatic intermittent feed-and-cut cordwood. E. Hill. 2,663,330, Dec. 22.
Scaffolding device. L. C. McGill. 2,663,597, Dec. 22.
Scale, Truck. H. Hendrickson. 2,663,562, Dec. 22.
Screen: *See*—
Testing screen.
Screen door safety latch. O. L. Tye. 2,663,585, Dec. 22.
Screw driving machine, Automatic. J. R. Tinsman, R. J. Novy, and R. O. Pence. 2,663,334, Dec. 22.
Sealing means for door bottoms. R. E. Uphoff. 2,663,057, Dec. 22.
Seat. E. W. Ory. 2,663,360, Dec. 22.
Seat and folding bed, Combined. A. Winikoff. 2,663,028, Dec. 22.
Seat for automobiles and the like, Auxiliary. G. D. Wood. 2,663,359, Dec. 22.
Seat support. H. L. Harms. 2,663,355, Dec. 22.
Securing mechanically stressed constructional members to wooden supports. F. Graf and T. Toepel. 2,663,662, Dec. 22.
Seed planter. C. J. Johnson. 2,663,462, Dec. 22.
Selenium dry-disk rectifier. O. J. Klein. 2,663,831, Dec. 22.
Self-aligning quick disconnect coupling. J. R. Snyder. 2,663,315, Dec. 22.
Self-energizing single-disk brake. R. K. Chamberlain. 2,663,384, Dec. 22.
Semiconductor translator. W. H. Brattain. 2,663,829, Dec. 22.
Separation of gas suspended dust particles. L. Dautrebande. 2,663,382, Dec. 22.
Sewing machine construction. P. F. Cencer and F. Whiteman. 2,663,273, Dec. 22.
Series of nitrofuran compounds comprising 5-nitro-2-furyl 2-dialkylaminoalkyl ketone semicarbazone salts. K. J. Hayes. 2,663,710, Dec. 22.
Sewing machine, Dual purpose. H. Schaper. 2,663,607, Dec. 22.
Sheathed electric conductor. J. V. McBride. 2,663,755, Dec. 22.
Sheet assembling machine. T. A. Patty. 2,663,019, Dec. 22.
Sheet charging apparatus. A. F. Pierce. 2,663,434, Dec. 22.
Ship construction for reducing drag. A. F. Ouellet. 2,663,276, Dec. 22.
Shirt hold-down device. S. Arnold. 2,663,026, Dec. 22.
Shoe attachment, Plane file. J. G. Bennett. 2,663,070, Dec. 22.
Short-wave electric discharge tube. C. P. Klöpping. 2,663,820, Dec. 22.
Shutter, High-speed. C. C. Fuerst. 2,663,235, Dec. 22.
Shuttle eye assembly. R. J. Carrigan. 2,663,327, Dec. 22.
Sifter cap device for dispensing containers. S. Morrison. 2,663,468, Dec. 22.
Signal: *See*—
Fishing signal.
Traffic control signal.
Signal for lifting apparatus. R. H. Williams. 2,663,865, Dec. 22.
Signal translating device, Semiconductor. S. Darlington. 2,663,806, Dec. 22.
Signal translating device, Semiconductor. R. M. Oliver. 2,663,830, Dec. 22.
Sink for campers' use, Portable. P. J. Miller. 2,663,392, Dec. 22.
Slate, Magic. H. S. Chase. 2,663,095, Dec. 22.
Slide feed mechanism. E. Grimm. 2,663,566, Dec. 22.
Sliding box cover. J. E. Shaffer. 2,663,457, Dec. 22.
Slot cutting machine with adjustable stroke. G. Borel. 2,663,337, Dec. 22.
Socket for fluorescent lamps and the like. H. Kershaw. 2,663,852, Dec. 22.
Solenoid magnet. M. S. Snell. 2,663,826, Dec. 22.
Solvent extraction. A. W. Francis and G. C. Johnson. 2,663,670, Dec. 22.
Solvent extraction apparatus and method. R. P. Hutchins and F. C. Simon. 2,663,624, Dec. 22.
Spacing apparatus, Proportional. E. Frey and R. E. Hattis. 2,663,390, Dec. 22.
Spade for gun carriages, Folding. R. E. Meyer and O. L. Beardsley. 2,663,226, Dec. 22.
Speed control mechanism for automobiles. S. B. Doyle. 2,663,313, Dec. 22.
Spherical valve. R. Racchi. 2,663,538, Dec. 22.
Spindle mount. C. P. Geen. 2,663,138, Dec. 22.
Spinnable carboxymethylated cotton fibers and their production. G. C. Daul, J. D. Reid, and R. M. Reinhardt. 2,663,615, Dec. 22.
Spring pocket filling machine. W. K. and J. M. McInerney. 2,663,475, Dec. 22.
Spring suspension for tandem axle trucks. A. F. Hickman. 2,663,570, Dec. 22.
Stabilization of peracids. F. P. Greenspan and D. G. MacKellar. 2,663,621, Dec. 22.
Stabilized crystal triode system. A. H. Reeves and C. D. White. 2,663,767, Dec. 22.
Stabilizing raw gasoline. B. C. Barnes. 2,663,669, Dec. 22.
Stairway, Moving. S. G. Margles and A. Fabula. 2,663,400, Dec. 22.
Stamp roll feeding mechanism. C. M. Gottschau. 2,663,565, Dec. 22.
Starter for internal-combustion engines, Automatic. W. A. Wolf. 2,663,804, Dec. 22.
Starting strip connection for discharge lamps. W. Elenbaas, D. Kolkman, and A. A. Hurx. 2,663,823, Dec. 22.
Steam iron. S. R. Bricker. 2,663,100, Dec. 22.
Stereotype molding. W. Baumrucker, Jr. 2,663,251, Dec. 22.
Storage bin unloading apparatus. K. R. Dennick. 2,663,594, Dec. 22.
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Superheat and reheat control. W. H. Armacost. 2,663,287, Dec. 22.
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Surface for window sills, Inlaid. W. B. Anderson. 2,663,388, Dec. 22.
Surge generating apparatus. J. Laurent and J. A. Larras. 2,663,092, Dec. 22.
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Swinging drawer cabinet. W. E. Schauer. 2,663,608, Dec. 22.
Switch: *See*—
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Swivel connector. J. A. Carr, F. V. Haskell, S. M. Sutton, and O. L. Walter. 2,663,748, Dec. 22.
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Tape dispenser. H. W. Rodgers. 2,663,510, Dec. 22.
Telephone holding unit. F. G. Holmes. 2,663,764, Dec. 22.
Telescope mount, Double adjustable rifle. W. P. Harms. 2,663,083, Dec. 22.
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Tent. F. M. Davis. 2,663,306, Dec. 22.
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Time-advanced actuating device for weaving loom stop-motions. J. Picanol. 2,663,329, Dec. 22.
Time comparator mechanism, Mechanical. M. E. Buehler. 2,663,863, Dec. 22.
Timer apparatus. D. F. Illian and N. T. Terp. 2,663,786, Dec. 22.
Tire bead lock clip. C. E. Zarth. 2,663,061, Dec. 22.
Tire inflator. C. Farris. 2,663,348, Dec. 22.
Titanium metal, Production of. C. K. Stoddard and J. L. Wyatt. 2,663,634, Dec. 22.
Toe pledget. B. D. Morgan. 2,663,296, Dec. 22.
Toe structure for full-fashioned hosiery. J. A. Pons. 2,663,175, Dec. 22.
Toll barrier, Flexible. J. A. F. Ellison. 2,663,103, Dec. 22.
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Abrasive tool.
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Tool case and sawhorse, Combination. R. B. Fray. 2,663,338, Dec. 22.
Tool for assembly of watch parts, Jewel setting. O. E. Miller. 2,663,207, Dec. 22.
Tool for opening and venting in one operation, Can top piercing. R. Robinson. 2,663,076, Dec. 22.
Tool for removing address-o-graph type strips. G. W. Schaefer. 2,663,250, Dec. 22.
Tool for the rotor or rotary cultivating machines, Earth working. A. C. Howard. 2,663,241, Dec. 22.
Tool for wells, Fishing. R. Donnell and J. R. Jennings. 2,663,370, Dec. 22.
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Toy, Educational. N. W. McCurdy. 2,663,096, Dec. 22.
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Traction chain. W. H. Devonshire. 2,663,346, Dec. 22.
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Traffic control signal. H. H. Grooms. 2,663,279, Dec. 22.
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Trailer with detachable gooseneck. W. E. Martin. 2,663,574, Dec. 22.
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Transmission control. W. V. Harrison. 2,663,199, Dec. 22.
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Transportation of granular solids. D. B. Ardern. 2,663,595, Dec. 22.
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Trash disposal unit, Cotton gin. W. M. Galloway. 2,663,381, Dec. 22.
Tray, Bottle. W. Geisler. 2,663,486, Dec. 22.
Treating popcorn. R. Park. 2,663,645, Dec. 22.
Treating wool. G. Sulzer. 2,663,616, Dec. 22.
Trimming machine, Edge. H. Keller. 2,663,352, Dec. 22.
Trip latch stake pocket. B. Vinson. 2,663,572, Dec. 22.
Truck body, Refrigerated. R. P. Mansmann. 2,663,163, Dec. 22.
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Truck, Telescopic dumping. A. R. Phelps. 2,663,439, Dec. 22.
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Short-wave electric discharge tube.
Ultrahigh-frequency electric discharge tube.
Tube testing apparatus. F. Huhn. 2,663,183, Dec. 22.
Tubing structure and manufacture, Flexible. D. W. Fentress. 2,663,324, Dec. 22.
Turbine-type hydraulic torque converter, Rotary. R. C. Zeidler and W. A. Barnes. 2,663,149, Dec. 22.
Two-stage starting system. H. G. Haas. 2,663,840, Dec. 22.
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Utility attachment for automobile steering wheels. F. Berman. 2,663,576, Dec. 22.
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Flexible sleeve iris valve.
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Pressure regulating valve.
Rotary valve.
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Valve and adjustment mechanism therefor, Refrigeration expansion. E. J. Dillman and T. E. Noakes. 2,663,502, Dec. 22.
Valve for master cylinders, Check. A. F. Erickson. 2,663,540, Dec. 22.
Valve for water conditioning devices. V. J. Palmer and J. S. Judell. 2,663,314, Dec. 22.
Valve for water dispensers, Float. J. Continenza. 2,663,312, Dec. 22.
Valve mechanism utilizing varying fluid pressures, Fluid operated filling. R. Détrez. 2,663,479, Dec. 22.
Valve structure, Float. S. Samaras. 2,663,311, Dec. 22.
Valve with multiple actuating means, Stem-sealed. L. A. Lakso. 2,663,318, Dec. 22.
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Variable speed drive means for printing of short texts in rotary printing machines. L. J. Chambon. 2,663,256, Dec. 22.
Vehicle with load boom and mobile stabilizer, Mobile. J. A. Le Clair. 2,663,433, Dec. 22.
Vending system, Article. T. S. Skillman. 2,663,398, Dec. 22.
Venetian blind bottom bar. H. K. Lorentzen. 2,663,367, Dec. 22.

Ventilator structure. L. L. Smith. 2,663,246, Dec. 22.
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Vernier indicating instrument. R. T. Malorany. 2,663,280, Dec. 22.
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Wagon, Dump. C. W. Wood. 2,663,231, Dec. 22.
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Warp-knitting machine, Flat. L. te Strake. 2,663,173, Dec. 22.
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Washing machine. G. C. Graham. 2,663,176, Dec. 22.
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Washout sub for well packers. L. J. Birdwell. 2,663,307, Dec. 22.
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Water resistant protein materials. H. J. Hagemeyer, Jr. 2,663,617, Dec. 22.
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Weed puller. J. T. W. Moseley. 2,663,543, Dec. 22.
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Well drilling and testing, Method and apparatus for. D. B. Grable. 2,663,545, Dec. 22.
Well flowing device. H. U. Garrett and C. M. Peters. 2,663,265, Dec. 22.
Well treating solution. B. M. Kingston and J. B. Childress. 2,663,689, Dec. 22.
Wheel device, Printing. C. G. Dudis. 2,663,257, Dec. 22.
Wheel feeding unit, Pin. A. W. Metzner. 2,663,197, Dec. 22.
Wheel structure. J. G. Swain. 2,663,592, Dec. 22.
Winding apparatus. H. D. Stevens. 2,663,511, Dec. 22.
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CLASSIFICATION OF PATENTS

ISSUED DECEMBER 22, 1953

NOTE.—First number = class, second number = subclass, third number = patent number.

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REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,412,343. Lawn Mower Re-Edger. Patented Dec. 10, 1946. Attachment for conventional lawn mowers for automatically sharpening the rotary cutting blades as the blades are rotated. The attachment consists of a pair of clamping bars. One of the bars is detachably secured to the under side of the lower stationary cutting blade of a lawn mower so that the upper forward edge of the bar is flush with the front edge of the stationary blade. The other bar is removably clamped to the forward face of the first bar so that the upper edges of both bars lie in the same horisontal plane. A flexible replaceable abrasive strip clamped between the bars extends upwardly and rearwardly and overlaps the cutting edge of the stationary blade for sweeping engagement by the rotary cutting blades as they are rotated to automatically sharpen them. (Owner) George J. Lauer, 1956 Pacific Ave., Long Beach, Calif. Groups 33—59; 35—22. Reg. No. 52,241.

Pat. 2,630,665. Lawn Edger With Motor Case as the Wheel. Patented Mar. 10, 1953. Lawn edger and trimmer in which the housing of the motor is rotatably mounted to act as a freely rotatable supporting wheel when the device is manually pushed over the ground. The housing is rotatably mounted in a fork consisting of a pair of arms secured to the operating handle of the device. A stationary star cutter wheel is fixedly secured to one of the arms with the shaft of the motor extending outwardly through the star wheel. A rotary cutter blade mounted on the motor shaft cooperates with the star cutter wheel. Brushes on one of the arms engage contact rings on the motor. (Owner) George J. Lauer, 1956 Pacific Ave., Long Beach, Calif. Group 35—22. Reg. No. 52,242.

Pat. 2,599,110. Dishwashing Machine. Patented June 3, 1952. Dishwashing machine especially designed for home use is fully automatic through a working cycle of (1) supplying a hot rinsing spray to loosen and soften grease on the dishes; (2) switching to a hot sudsing spray to complete the cleaning; (3) switching to a final hot rinsing spray of clear water to flush off the suds and to sterilize and further heat the dishes, making hand drying unnecessary; and (4) turning itself off and re-setting itself to repeat the cycle when desired. The machine is operative solely by water pressure to perform its working functions at properly timed intervals and does not require the use of a motor and electrical controls, or other complex means to operate its working parts. A rotary spray device of the jet reaction type for spraying the dishes is operated by the water pressure. The machine may be selectively adjusted to automatically start a working cycle or not when the lid is closed. Opening the lid before completion of a working cycle will automatically stop the machine. (Owner) Earl R. Johnson, 1913 East 17th Place, Tulsa 4, Okla. Group 35—89. Reg. No. 52,243.

Pat. 2,642,904. Log Debarker and Chipper. Patented June 23, 1953. Portable debarking and chipping equipment, to be taken to log operations in a forest, comprises a log bed, a cutter bed, and a chips conveyor. The log bed is arranged with a plurality of power-driven units capable of turning a log, skewing, and moving it lengthwise or backing it up to advance over the cutters. The various units, pivotally disposed for limited rotation about central pivot shafts, are operatively connected for simultaneous adjustment by a shiftable bar. The cutter bed removes the bark, and chips off the desired portion to prepare the log for cutting into lumber. High resistance steel blades are carried on endless chains moved by separate motors in alternating directions. The chains are adequately backed and guided to prevent chattering or jumping when a knot etc. is struck. The cutter bed may be adjusted vertically or tilted to meet an oncoming log by manipulation of two cranks disposed one under each side of the bed. A simplified form of the invention is shown. (Owner) John H. Pearce. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Groups 24—11—21; 35—53. Reg. No. 52,244.

Pat. 2,597,225. Awning. Patented May 20, 1952. Louver type awning which may be operated from inside or outside a building to regulate the admission of light and exclude rain. The louvers are pivotally connected to hangers secured to an overhang of a building. An actuating bar is hinged at its ends to the upper and lower terminal louvers. A lift elbow is hingedly connected to the bar and to the building. The bar is notched along one edge to receive and permit rotation of the louvers. A cord extends through a slot in the elbow and passes over a sheave secured to the overhang and to a spool. The shaft of the spool extends through a window or wall of the building and terminates in a ratchet having an operating handle for rotating the spool to open or close the louvers. (Owner) Arthur Chrosnik, 3300 North Page Ave., Chicago 34, Ill. Group 23—95. Reg. No. 52,245.

Pat. 2,639,926. Dolly or Trailer Assembly. Patented May 26, 1953. Two-wheeled dolly for use in conjunction with a crane-type towing vehicle whereby a wrecked motor vehicle may be towed to a garage without the wheels of the wrecked vehicle touching the roadway. The framework of the dolly has spaced arcuate tread portions for supporting two of the wheels of a motor vehicle with a tongue extending forwardly from the framework. In use, either the front or rear wheels of a wrecked vehicle are elevated by the crane of the towing vehicle, the dolly slipped thereunder, and the wheels lowered onto the arcuate tread portions. After the crane is detached, the tongue of the dolly is chained to the drive shaft of the wrecked vehicle and the axle of the raised wheels is chained to the framework of the dolly. The opposite end of the wrecked vehicle is then elevated by the crane so that the vehicle may be towed without the wheels touching the roadway. (Owner) Purl O. Parks. Correspondence to Emil G. Trott, 315 Iowa State Bank Building, Iowa City, Iowa. Group 38—11—31. Reg. No. 52,246.

Des. 169,633. Garden Marker. Patented May 19, 1953. Term of patent 14 years. A new, original, and ornamental design for a garden marker to be used in either vegetable or flower gardens to hold up awkward plants, as well as mark the rows in a striking and attractive manner. The item may be manufactured of wood, plastic, or other suitable material. (Owner) Mary Ravenscroft Riddle, % L. S. Saulsbury, 55 West 42d St., New York 36, N. Y. Groups 25—99; 39—81; 40. Reg. No. 52,247.

Pat. 2,399,528. Length in Terms of Weight Measuring Device. Patented Apr. 30, 1946. Device for measuring piece goods or other material which is rolled on tubes or boards or is folded, without unrolling or unfolding. The measurements are read in yards and inches. The device is particularly adapted for use in department stores or by anyone else who cuts yardage and needs a method of taking inventory of yardage on pieces that have been cut into. (Owner) Lloyd M. Williams, 1007 Raymond Drive, Fort Dodge, Iowa. Group 35—74. Reg. No. 52,248.

Pat. 2,553,731. Power Mower. Patented May 22, 1951. Manually propelled power lawn mower wherein the cutter blades rotate in a horizontal circular path and are motor driven. A wheeled platform-like carriage having a handle at the rear end supports the motor and blades. The motor is mounted on the rear end of the platform and is operatively connected by a pulley and belt connection to the upper end of a vertical drive shaft extending downwardly through a tubular post mounted on the platform at an intermediate point. The lower end of the drive shaft extends below the platform and is provided with a flanged hub. Arms carrying V-shaped double edged knives at the outer ends are secured to the flange of the hub. The arms are formed with a double bend and are reinforced and rigidly supported by braces secured to the flange of the hub. (Owner) D. F. Christoffer, Spirit Lake, Iowa. Group 35—22. Reg. No. 52,249.

Pat. 2,641,377. Label Applying Machine. Patented June 9, 1953. Machine for applying labels to bottles or cans arranged in upright position while they are being moved past a stack of labels. The machine includes a conveyor on which articles to be labeled are placed and advanced until they encounter an arm extending across the conveyor. The arm holds the leading article out of contact with a revoluble disc having one or more recesses through which the articles escape to pass to a label-applying device. The arm is held in position by a latch pressed against a hub carrying the disc. Cam lugs on the hub strike the latch when the disc reaches a predetermined position, and this releases the arm. The article engages the disc and passes through one of the recesses and engages a moistening device. The article then encounters a driving belt driven at twice the speed of the conveyor. The article is pressed against a guide rail having a friction surface which rotates the article and presents the moistened area to the outermost label in a label magazine opposite the driving belt. (Owner) Nils A. Zander, Delaney St., Stow, Mass. Group 35—69. Reg. No. 52,250.

Pat. 2,446,712. Lamp Device. Patented Aug. 10, 1948. Lamp device for producing distinctive lighting or heating effects is constructed entirely of glass or other suitable non-metallic material, such as commercially known Pyrex or Corex, thus effecting a substantial saving of metal. The invention may, for example, be applied to fluorescent lighting fixtures, cooking receptacles, toasters, ironers, or used for other purposes. The device features a glass body having in the under surface a double spiral groove filled with gas or vapor, such as argon or neon for lighting, or mercury vapor for heating. The groovés communicate at one end, but are closed at the other end, with a pair of electrodes in the closed end connected to a suitable source of electrical energy. A plate closing the lower sides of the grooves has its peripheral edges sealed to the body. The inner portions of the body and plate are not sealed together but are arranged close together so that the gas discharge will not jump from one portion of the groove to another. For lighting purposes, the surface of the grooves may be coated with fluorescent or reflecting powders. (Owner) Continental Electric Company. Correspondence to J. Preston Swecker, 938 Washington Bldg., 1435 G St., N. W., Washington 5, D. C. Group 36—21—51. Reg. No. 52,251.

Pat. 2,638,101. Face Lifting and Hair Curling Device. Patented May 12, 1953. Face-lifting device has a base member within which a rotatable rod is supported for lifting sagging facial muscles by clamping several strands of hair adjacent the temple and above the ear. The base has upwardly extending end portions, each with an aperture to support the rod. The rod is bifurcated to form legs to support the hair therebetween. An operating knob at the end of the rod has a pin to extend into one of a series of circumferentially arranged recesses in the outer face of the end portion adjacent the knob. Strands of hair are placed between the legs, and the rod is pushed inwardly to position the outer ends of the legs in the aperture in the outer end portion. The rod is then rotated to wind the hair on the legs and provide sufficient tension on the hair to draw up the skin and thus raise sagging facial muscles. The rod is then pushed inwardly to move the pin into one of the recesses to lock the rod to the base to prevent the hair from unwinding and holds the facial muscles in raised position until the pin is removed from the recess. The device may be concealed by combing the wearer's hair thereover. (Owner) Mrs. Millie T. Clark, % H. S. Dixie's Beauty Shop, 26½ Capitol St., Charleston, W. Va. Group 39—91. Reg. No. 52,252.

Pat. 2,619,708. Commutator Turning Down Machine and Mica Undercutter. Patented Dec. 2, 1952. Apparatus increases the accuracy and dispatch with which the commutator of different-size electric-motor armatures can be dressed and mica insulation undercut. The apparatus comprises an inverted U-shape frame by which an armature may be horizontally hung for dressing. One end of the armature's rotary shaft is received in stepped sockets of a bearing supported in a hanger at one end of the frame crossbar and longitudinally slidable thereon. The other end of the armature is similarly received in the inner end of an aligned horizontal feed screw journaled in an offset bearing on the opposite leg of the frame. An adjustable, vertically disposed tool holder is slidably mounted on the crossbar by a bracket. An arm of the bracket is connected to the outer edge of a feed plate threaded on the feed screw so that the plate will advance the holder when the screw is turned by a hand crank on the outer end. A set screw on the feed screw locks the armature shaft for rotation, or the shaft may be unlocked and the tool set for undercutting the mica. (Owner) Donald J. Neal, 1844 Montana Ave., Shore Acres, St. Petersburg, Fla. Groups 35—41; 36—19. Reg. No. 52,253.

Swift & Company has placed the following five patents on the Register for licensing on reasonable terms, in addition to several hundred patents previously registered. Inquiries concerning licenses may be directed to: Swift & Company, Union Stock Yards, Chicago 9, Ill.

Pat. 2,617,145. Poultry Picker. Patented Nov. 11, 1952. Machine for picking the necks and wings of poultry suspended head downwardly by shackles depending from an overhead conveyor. Poultry is passed between a pair of rotating pickers mounted within an open top frame. Curved guard members are mounted on top of the frame above each picker defining a narrow, elongated opening communicating with the picking zone. A pair of guides affixed to the guard members extend outwardly and downwardly to ensure the wings of the poultry being forced under the guard members as the poultry is conveyed into the open end of the frame. Overhead guide members extend parallel with the picking zone to contact and hold the shackles in parallel orientation with the picking zone. Group 35—51. Reg. No. 52,254.

Pat. 2,632,200. Poultry Head Remover. Patented Mar. 24, 1953. Device for detaching the heads of poultry, useful in poultry dressing plants utilizing conveyors for the continuous processing of the birds. As the birds are moved by the conveyor, the necks of the birds will enter an opening in a V-shaped forked member supported by a frame which is positioned to intersect the line of movement of the birds along the conveyor. The heads of the birds, being larger than the rearward portion of the opening, are prevented from passing therethrough. The pull that is applied to the bird by the conveyor detaches the head from the bird. A container may be placed under the device to receive the heads. Group 35—51. Reg. No. 52,255.

Pat. 2,634,001. Stacking Machine. Patented Apr. 7, 1953. Machine for stacking rectangular frames carrying processed skins, such as patent leather, operates automatically in conjunction with a conveyor to receive the frames discharged therefrom. A framework defining an elevator well has an entrance adjacent its lower end to receive a frame, and a discharge opening adjacent its upper end through which a stack of frames may be removed. Stationary supporting means for holding the frames is provided between the entrance and discharge openings. A frame lifting and transfer mechanism beneath a stack-supporting means, between the entrance and discharge openings, is automatically operated as it receives a frame through the entrance opening and transfers the frame to the stack supporting means. A stack-lifting mechanism elevates a predetermined number of frames to the level of the discharge opening where they are removed by a conveyor and transferred to a drying oven or other location without interruption to the stacking operation. Group 35—69. Reg. No. 52,256.

Pat. 2,641,304. Sealing Machine. Patented June 9, 1953. Device for sealing the side edges and end of a transparent sheet of thermoplastic material wrapped about an article of food. It includes a frame on which a hot plate is mounted with upper and lower electrically heated sealing jaws at opposite sides of the plate. The upper jaws are movably mounted and operatively connected to a foot treadle. An article wrapped in a sheet of thermoplastic material is placed on the hot plate with the end of the sheet against the plate and the opposed side edges of the sheet between the jaws. The plate softens the end of the sheet causing it to adhere to the remainder of the wrapper. The foot pedal is depressed to lightly close the jaws and soften the side edges of the sheet. The foot pedal is then further depressed to tightly close the jaws to complete the sealing operation and cause shear plates associated with the jaws to snip off excess material beyond the sealed edges. Group 35—51. Reg. No. 52,257.

Pat. 2,642,619. Skinning Machine. Patented June 23, 1953. Machine for removing skin from meat cuts, particularly shoulder or ham cuts. An endless conveyor mounted on a frame has a curved pointed hook to engage a meat piece placed on a table adjacent the receiving end of the conveyor. Stationary clamps are mounted on the frame for holding an edge of skin on the meat against forward movement with the conveyor. The conveyor permits rotation of the meat about an axis below the edge of the skin to turn the meat as the conveyor travels, and thus remove the skin in one piece. Group 35—51. Reg. No. 52,258.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 22, 1953

[VOL. 677. No. 4]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5. As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 645,160. Kennedy Minerals Company, Inc., Los Angeles, Calif. Filed Apr. 13, 1953.

SHEROID

For Sheridanite, a Magnesium Aluminum Silicate Mineral.

Claims use since Mar. 14, 1951.

CLASS 2

RECEPTACLES

Ser. No. 633,241. Omer J. Smith, doing business as Paper Products Company, Cincinnati, Ohio. Filed July 23, 1952.



For Collapsible Paperboard Cartons and Boxes.

Claims use since on or about Jan. 15, 1944.

Ser. No. 646,858. Fine Art Pillow & Specialties Co., New York, N. Y. Filed May 12, 1953.

HOLD-A-BOT

No claim is made to the word "Hold" apart from the mark shown on the drawing.

For Heat Insulating Padded Quilted Fabric Pockets Used for Holding Nursing Bottles.

Claims use since Mar. 12, 1952.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 640,873. A. Steinhardt & Bro Inc., New York, N. Y. Filed Jan. 16, 1953.

ARBO

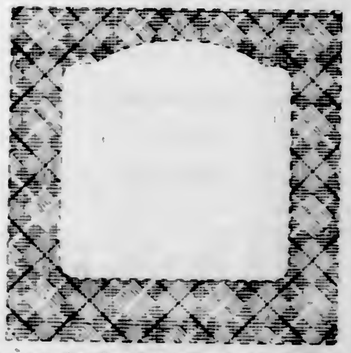
For Ladies' Hand-Bags.

Claims use since Mar. 14, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 647,944. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed May 29, 1953.



The accompanying drawing is lined to indicate the colors red, green and black. Those squares in the drawing lined to indicate black are actually a screen printing of green over red but give the appearance of black. The superimposed diagonal lines bisecting the green and screen printed squares are white in color. The superimposed diagonal lines bisecting the red and screen printed squares are green in color. Applicant claims ownership of Registrations Nos. 561,631, 558,476, and others.

For Coated Abrasives.

Claims use since at least as early as August 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 624,903. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Feb. 13, 1952. (Sec. 2f.)

Staley's CUBES

Applicant claims ownership of Registrations Nos. 369,551 and 514,132.

For Laundry Starch.

Claims use since 1935.

Ser. No. 625,253. Commonwealth Color & Chemical Company, New York, N. Y. Filed Feb. 20, 1952.

ASTRON

For Product Containing a Homologue of Phenol Coupled With an Alkyl Ester in an Alkaline Medium, and Used as

a Swelling Agent for Polyester Fibers Applied Before and During Dyeing of Said Fibers.
Claims use since Nov. 21, 1951.

Ser. No. 627,354. Phillips Petroleum Company, Bartlesville, Okla. Filed Mar. 31, 1952.

HYDROPOL

For Hydrogenated Rubbery Polymers Used Principally as Flexible Thermoplastic Resins.
Claims use since Mar. 21, 1951.

Ser. No. 643,939. Otto Bernz Co., Inc., Rochester, N. Y. Filed Mar. 20, 1953. (Sec. 2f as to "Bernz.")

BERNZ-O-MATIC

For Cylinder Containing Liquid Petroleum Gas.
Claims use since Nov. 7, 1951; and since during the fall of 1947 as to "Bernz."

CLASS 7

CORDAGE

Ser. No. 643,338. Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Filed Mar. 9, 1953.

CENTERFIT WIRE ROPE

The drawing is lined for shading purposes only. Applicant disclaims the words "Wire Rope" apart from the mark as shown.
For Wire Rope.
Claims use since Jan. 2, 1953.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 554,825. Soulé Steel Company, San Francisco and Los Angeles, Calif., Portland, Oreg., and Houston, Tex. Filed Apr. 16, 1948. (Sec. 2f.)

STEELINE

For Prefabricated Steel Buildings and Steel Building Frames.
Claims use since June 1, 1940.

Ser. No. 591,943. Minnesota and Ontario Paper Company, Minneapolis, Minn. Filed Feb. 3, 1950.

DUROLITE

Applicant claims ownership of Registration No. 375,676.
For Surface Coated Fiber Composition Board and Fiberboard Tile and Plank.
Claims use since Jan. 6, 1950.

Ser. No. 612,889. Baumat A. G., Zurich, Switzerland. Filed Apr. 20, 1951.

GLOBULIT

Applicant claims ownership of Swiss Registration No 132,780, dated Feb. 8, 1950.
For Construction and Building Materials—Namely, Artificial Gravel, More Particularly in Spherical Form, Made of Clay, Mortar or Cement With or Without Admixture With Other Natural or Artificial Construction Materials, Such as Thermoplastic Materials, Bitumen, Asphalt, Sand, Slag, and Other Similar Natural and Artificial Materials and Binders Ready for Use as a Construction Material in Making Roads, Paving, Road Beds, and the Like, Also Being Suitable for Being Formed Into Construction and Building Elements, Such as Tiles, Slabs, Building Blocks and Road Blocks; Cast, Molded or Pressed Construction Materials in Various Shapes Such as Bricks, Tiles, Roofing Slabs, Foundation Blocks, Building Blocks, Beams, Pillars, Paving Blocks, Walls, Ceilings, and Roofing Slabs Made of and/or Including as an Ingredient With Other Materials, Clay, Cement, Artificial Gravel or Slag; Thermoplastic Construction Materials Containing Natural or Artificial Gravel Either Alone or With Similar Natural or Artificial Additional Material.

Ser. No. 617,686. The Weather-Lock Company, Willoughby, Ohio. Filed Aug. 14, 1951.

WEATHER-LOCK

For Combination Storm Windows and Doors.
Claims use since Feb. 11, 1949.

Ser. No. 628,944. International Brass and Copper Co., Inc., New York, N. Y. Filed Apr. 30, 1952.



For Fibre Wall Board.
Claims use since Jan. 1, 1948.

Ser. No. 633,155. Keasbey & Mattison Company, Ambler, Pa. Filed July 28, 1952.

NU-GRAIN

For Asbestos Composition Shingles, Slates, Tiles, Sheets, Sheathings, Slabs, and Asbestos Composition Roll Roofing Materials.
Claims use since on or about Oct. 15, 1951.

Ser. No. 635,806. Armstrong Cork Company, Lancaster, Pa. Filed Sept. 26, 1952.

PLASTICORK

For Moldable Cork and Rubber Composition Used To Insulate Cold Line Fittings.
Claims use since Sept. 15, 1952.

Ser. No. 648,196. The Richardson Company, Lockland, Cincinnati, Ohio. Filed June 3, 1953.

RICHELAIN

Applicant claims ownership of Registration No. 522,961.
For Decorative Laminated Resinous Sheet Material Used for Table and Kitchen Sink Tops.
Claims use since Apr. 29, 1953.

Ser. No. 648,729. Alva U. Carr, Ponca City, Okla. Filed June 15, 1953.

"THE HOUSE DOCTOR"

For Lumber, Shingles, Plywood, Roofing Cement, Caulking Compound, Sheet Metal for Roof Flashing.
Claims use since June 6, 1953.

Ser. No. 648,730. Alva U. Carr, Ponca City, Okla. Filed June 15, 1953.



For Lumber, Shingles, Plywood, Roofing Cement, Caulking Compound, Sheet Metal for Roof Flashing.
Claims use since June 6, 1953.

Ser. No. 648,767. MacMillan & Bloedel Limited, Vancouver, British Columbia, Canada. Filed June 15, 1953.

HRMB

Priority under Sec. 44(d). Canadian application filed Feb. 20, 1953, Registration No. 43,786/172, dated Feb. 20, 1953.
For Lumber.

Ser. No. 648,874. National Gypsum Company, Buffalo, N. Y. Filed June 16, 1953. (Sec. 2f.)

Safe-Edge

For Expanded Metal Lath Corner Reinforcement.
Claims use since May 19, 1948.

Ser. No. 648,999. Irving Subway Grating Company, Oakland, Calif. Filed June 18, 1953.

GRIPWELD

For Subway Gratings.
Claims use since Apr. 30, 1953.

Ser. No. 649,117. Boyle-Midway Inc., New York, N. Y. Filed June 22, 1953. (Sec. 2f.)

E-Z-WOOD

For Plastic Preparation Composed Chiefly of Cellulose and Sold as a Substitute for Wood and Used in Glazing Operations and Similar Work of House Construction.
Claims use since Jan. 21, 1937.

Ser. No. 649,186. The Rosenblum Bros. Company, Youngstown, Ohio. Filed June 22, 1953.

Cool Ray

Applicant claims ownership of Registration No. 527,874.
For Metal Awnings.
Claims use since Dec. 1, 1949; and since Dec. 1, 1948, as to the words "Cool Ray."

Ser. No. 649,361. Globe Roofing Products Co., Inc., Whiting, Ind. Filed June 25, 1953.

KOLORGRĀN

Applicant claims ownership of Registration No. 336,079.
For Asphaltic Composition Roll Roofing, Asphaltic Composition Shingles, Insulating Board, Insulating Siding, Aluminum Insulating Board, Aluminum Granular Roll Siding, Aluminum Roll Roofing, Aluminum Shingles and Sidings, Plastic Insulating Sidings, and Plastic Shingles.
Claims use since May 12, 1953.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 620,014. No-Sag Spring Company, Detroit and Warren Township, Mich. Filed Oct. 15, 1951.

SWIV-ALL

For Pair of Pivoted Plates Having Raceways for Ball Bearings Used on Tables, Chairs, Vanity Benches, Ottomans, and the Like.
Claims use since July 10, 1950.

Ser. No. 636,854. Marman Products Company, Inc., Los Angeles, Calif. Filed Oct. 18, 1952.

MARMAN

For Band Clamps, V Band Couplings, Tube Couplings, Fluid Sealing Tube Couplings, and Exhaust Pipe Couplings.
Claims use since January or February 1941.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 608,296. Belmont Smelting & Refining Works, Inc., Brooklyn, N. Y. Filed Jan. 3, 1951. (Sec. 2f.)

BELMONT

For Aluminum, Antimony, Arsenic, Babbitt, Beryllium, Bismuth, Brass, Bronze, Brazing Alloys, Cadmium, Calcium, Cerro Alloys, Chromium, Cobalt, Copper, Ferro Alloys, Iron and Steel Filings, Lead, Lithium, Low Melting Alloys, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Powdered Metals, Semi-Rare Metals, Selenium, Solders, Tin, Tungsten, Type Metals, White Casting Metals, and Zinc.
Claims use since July 1923.

Ser. No. 648,294. Coast Metals, Inc., Little Ferry, N. J. Filed June 5, 1953.

COAST METALS, INC. C M WEAR RESISTANT ALLOYS

The trade-name "Coast Metals, Inc.," and the words "Wear Resistant Alloys" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 414,788.
For Hard Facing Welding Rods, Wear-Resistant Castings, and Metal Powders.
Claims use since on or about Apr. 13, 1953.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 620,250. American-Marietta Company, Chicago, Ill. Filed Oct. 20, 1951. (Sec. 2f.)

Shieldcote

For Ready Mixed Enamels for Interior and Exterior Use.
Claims use since Oct. 1, 1928.

Ser. No. 623,483. Fred'k A. Stresen-Reuter, Inc., Chicago, Ill. Filed Jan. 11, 1952. (Sec. 2f.)

DuPage

Applicant claims ownership of Registration No. 376,762.
For Paints—Namely, Casein Paint, Oil Enamels, Flat Paints, Floor Paints, Barn Paints, and the Like.
Claims use since 1938.

Ser. No. 638,366. Ralph D. Kelley Paint Company, Chicago, Ill. Filed Nov. 20, 1952.

HOMAID

For Paint.
Claims use since July 15, 1952.

Ser. No. 647,681. Zynolyte Products Co., Los Angeles, Calif. Filed May 25, 1953.

PATIO

For Rubber Base Paint for Application to Masonry and Concrete Surfaces; Also Rubber Base Paint Reducer.
Claims use since Mar. 27, 1952.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 637,346. Abbott Laboratories, North Chicago, Ill. Filed Oct. 30, 1952.

TRONOTHANE

Applicant claims ownership of Registration No. 570,802.
For Local Anesthetic.
Claims use since Oct. 17, 1952.

Ser. No. 647,991. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Filed June 1, 1953.

PURINETHOL

For Anti-Metabolic Drug.
Claims use since Apr. 30, 1953.

Ser. No. 648,266. Victor Schutzbank, trading as Mother Ann's Preparations, Brooklyn, N. Y. Filed June 4, 1953.

MOTHER ANN'S

For Cold Tablets, as an Aid for Relief of Discomfort of Simple Head Colds, Headache and Fever When Due to Exposure.
Claims use since January 1949.

Ser. No. 648,321. National Health Aids of Baltimore, Inc., Baltimore, Md., now by merger and change of name Charles Antell, Inc., a corporation of Maryland. Filed June 5, 1953.

APPITABS

For Vitamin and Mineral Food Supplement in Tablet Form, To Promote the Appetite.
Claims use since May 18, 1953.

Ser. No. 648,612. Mathieson Chemical Corporation, New York, N. Y. Filed June 11, 1953.

LIFROSE

For Medicinal Dietary Supplement.
Claims use since May 25, 1953.

Ser. No. 648,649. Casimir Funk Laboratories, Inc., New York, N. Y. Filed June 12, 1953.

stanone

For Pharmaceutical Compound Consisting of a Sterile Suspension of Dihydrotestosterone in Saline Solution for Parenteral Use as a Non-Virilizing Androgenic Hormone.
Claims use since Mar. 9, 1953.

Ser. No. 648,699. Samuel Silber, doing business as Samfred Drug Company, Newark, N. J. Filed June 12, 1953.

PROLENGINE

TRADE MARK

GEL

Applicant disclaims the words "Trade-Mark" and "Gel."
For Harmless Medicinal External Application in Gelatin Form To Aid Sexual Control in Men.
Claims use since May 15, 1951.

Ser. No. 648,700. Samuel Silber, doing business as Samfred Drug Company, Newark, N. J. Filed June 12, 1953.

SALCYN

For Analgesic Tablets To Aid in the Relief of Pain.
Claims use since Apr. 10, 1952.

Ser. No. 649,160. The Kenton Pharmacal Co., Covington, Ky. Filed June 22, 1953.

CORMYSAL

For Medicinal Preparation for the Relief of Muscular Aches and Pains.
Claims use since June 8, 1953.

CLASS 19

VEHICLES

Ser. No. 635,853. Simplex Products Incorporated, Detroit, Mich. Filed Sept. 26, 1952.

SAV-A-LIFE

For Stabilizers for Automotive Vehicles.
Claims use since Feb. 17, 1952.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 640,434. Bonafide Mills, Inc., Winthrop, Maine, and New York, N. Y. Filed Jan. 7, 1953.

JIFFY-GRIP

For Felt Base, Linoleum, Composition, and Plastic Floor Coverings and Rugs, Not Woven.
Claims use since Dec. 15, 1952.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 611,550. Ultra-Violet Products, Inc., South Pasadena, Calif. Filed Mar. 19, 1951.

FLUOR-O-CHEK

For Lamps Emitting Ultra-Violet Light Directed Toward Any Object Disposed in the Beam of the Lamp for Use in Detecting Forged and Counterfeit Stamps, Checks, Tickets, Documents, and Signatures, and for Bringing Out Markings or Characteristics Invisible Under Ordinary Light.
Claims use since Jan. 16, 1951.

Ser. No. 615,027. The Safety Car Heating and Lighting Company, Inc., New York, N. Y. Filed June 11, 1951.



Applicant claims ownership of Registrations Nos. 174,453, 262,969, and others.
For Electrical and Electro-Mechanical Apparatus—Namely, Electric Motors, Generators, Motor Generators, Motor Alternators, Pole Changing Devices, Transformers, Rectifiers, Resistors, Electrical Load Voltage or Current Regulators, Reverse Current Relays and Contactors, Motor Starting Switches and Controls, Motor Alternator Step Starters, Carbon Pile Voltage Regulators, Apparatus Control Panels for Railway Car Air Conditioning, Control Panels for Railway Car Lighting, Electrical Circuit Breakers, Electric Switches, Switchboards; Electric Lighting Equipment—Namely, Shades and Reflectors for Electric Light Fixtures, Incandescent Light Fixtures, Fluorescent Light Fixtures, Electric Lamps, Electric Light Switches, Electric Switchboards and Junction Boxes, Electric Globes and Lamp Parts; Electric Fans and Blowers, and Speed Controls for Electric Fans and Blowers.
Claims use since August 1920.

Ser. No. 631,075. Tigerman Engineering Company, Chicago, Ill. Filed June 11, 1952.

TEL-ALARM

For Annunciators.
Claims use since on or about May 29, 1952.

Ser. No. 634,164. Ranco Incorporated, Columbus, Ohio. Filed Aug. 19, 1952.

Ranco

Applicant claims ownership of Registration No. 341,055.
For Solenoid Operated Valves.
Claims use since May 27, 1927.

Ser. No. 634,438. Austin-Lee, Inc., Washington, D. C. Filed Aug. 26, 1952.

Little Bull

No claim is made to the word "Little" apart from the mark as shown.

For Portable Power Megaphones.
Claims use since May 28, 1952.

Ser. No. 637,309. General Electric Company, Schenectady, N. Y., and elsewhere. Filed Oct. 29, 1952.

FLEX-A-POWER

For Metallic Conduits or Housings for Electrical Conductors and Parts Thereof.
Claims use since on or about Apr. 25, 1928.

Ser. No. 641,705. Amy, Aceves & King, Inc., New York, N. Y. Filed Feb. 4, 1953. (Sec. 2f.)

Multicoupler

Applicant claims ownership of Registration No. 290,991.

For Terminal Resistors, Receiver Connecting Receptacles, Receiver Connecting Units, Television Antennas, and Amplifiers.
Claims use since Aug. 15, 1929.

Ser. No. 651,325. Flyex Distributors, Washington, D. C. Filed Aug. 4, 1953.

FLYEX

For Electric Bulbs To Vaporize Insecticide Tablets.
Claims use since Apr. 7, 1953.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 630,289. Tarzana Toy Company, Tarzana, Calif. Filed May 26, 1952.

LITTLE JOE

For Toy Finger Paints for Children.
Claims use since Nov. 1, 1951.

Ser. No. 634,968. Diamond Calk Horseshoe Co., Duluth, Minn. Filed Sept. 8, 1952. (Sec. 2f.)

DOUBLE RINGER

For Pitching Shoes.
Claims use since 1930.

Ser. No. 634,970. Diamond Calk Horseshoe Co., Duluth, Minn. Filed Sept. 8, 1952. (Sec. 2f.)

SUPER RINGER

For Pitching Shoes.
Claims use since 1939.

Ser. No. 635,225. Francis Herman, doing business as Budgie-Boy Products Co., Detroit, Mich. Filed Sept. 13, 1952.



Applicant disclaims the representation of the parakeet.

For Parakeet Toys—Namely, a Play Pen, Wagon, Ferris Wheel, Rocker, Ladder, Perch With Bells.
Claims use since Apr. 1, 1949.

Ser. No. 641,207. Produx, Inc., Worcester, Mass. Filed Jan. 23, 1953.

PRODUX

For Bowling Pins and Caps Therefor.
Claims use since February 1951.

Ser. No. 650,162. James D. Easton, Los Angeles, Calif. Filed July 13, 1953.

24SRT-X

For Archery Arrows.
Claims use since January 1947.

Ser. No. 651,231. Eye Sight Educational Co., Littleton, Colo. Filed Aug. 3, 1953.

L E R N O

For Game Boards Similar in Form and Operation To What Is Generally Called Bingo Boards.
Claims use since June 19, 1953.

Ser. No. 651,578. Gay Toys, Inc., Detroit, Mich. Filed Aug. 10, 1953.

Pla-Vac

The term "Pla" is disclaimed apart from the remainder of the mark.

For Toy Vacuum Cleaners.
Claims use since July 20, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 621,268. Indestro Manufacturing Corp., Chicago, Ill. Filed Nov. 15, 1951.



The word "Tools" and the representation of the hammer and anvil are disclaimed apart from the mark as shown.

For Socket Wrenches, Socket Wrench Sets, Socket Wrench Kits Comprising Containers and Sets of Wrenches, Hollow Head Set Screw Wrenches and Sets Thereof, Stud Wrenches, Wrench Sockets, Universal Joint Sockets, Wrench Handles, Wrench Speeders, Wrench Speeder Handles, Wrench Spinners, Wrench Adapters, Ratchet Wrenches, Wrench Universal Joints, Wrench Extensions, Swing Head Handles, Open End Wrenches, Open End Wrench Sets, Box End Wrenches, Box End Wrench Sets, Obstruction End Wrenches, Obstruction End Wrench Sets, Combination Box Open End Wrenches, Combination Box Open End Wrench Sets, Adjustable Wrenches, Flare Nut Wrenches, Tube End Flarers and Tube Cutters; Sets of Assorted Tools for Automotive Vehicle Maintenance and Repair—Namely, Tappet Wrenches and General Purpose Wrenches and Screw Drivers and Pliers and Hammers and Mallets and Chisels and Rivet Busters, Reamers, Offset Screw Drivers, Screw Driver Blades, Screw Driver Handles, Screw Driver Adapters, Screw Driver Sets, Tension Indicating Wrenches and Sweep Extensions for Use Therewith; Spark Plug and Other Ignition Tools—Namely, Wrenches and Pliers and Files and Screw Drivers and Spark Testing Screw Drivers; Roll-Away Tool Containing Cabinets Sold Along With the Tools They Contain; Tool Containing Chests Sold Along With the Tools They Contain, Tool Containing Trays Sold Along With the Tools They Contain, Tool Containing Rolls Sold Along With the Tools They Contain, Tool Supporting Boards Sold Along With the Tools They Support, Display Cards Sold Along With the Tools Displayed Thereon, Valve Grinders, Valve Reseaters, Screw Extractors, Punches, Chisel and Punch Sets, Pry Bars, Hammers, Pliers, Valve Lifters, Valve Grinding Tools, Battery Terminal Lifters, Screw Driver Clips, Battery Lifters, Drain Plug Wrenches, Drain Plug Sockets for Use With Wrenches; Car Body and Fender Tools—Namely, Dinging Hammers and Bumping Hammers and Mallets and Flexible Files and Flexible File Holders and Metal Conforming Spoons, Flange Tools, and Dollies; Brake Tools—Namely, Brake Spring Pliers and Brake Lining Riveters and Star Nut Adjusters and Specially Shaped Wrenches; Piston Ring Tools—Namely, Piston Ring Inserters and Piston Ring Compressors and Piston Ring Cleaners of the Blade or Scraper Type, and Piston Ring Skids; Carbon Scrapers, General Purpose Scrapers; Tire Valve Tools—Namely, Instruments for Unseating Tire Valves and Removing and Replacing Valve Cores and Tire Valve Stem Threaders; Rim and Tire Tools—Namely, Rim Wrenches, Cross Rim Wrenches, and Tire Spreaders and Tire Irons of the Spoon Type and the Blade Type; Bushing Drivers—Namely, Bushing Punches and Collars Cooperating With Those Punches; Snips, Wheel Pullers, Hub Pullers, Gear Pullers, Carburetor Jet Wrenches, Gasket Cutting Punches, Broken Glass Removing Tools in the Nature of Specially Shaped Pry Bars, Bars for Facilitating Spring Lubrication, Hacksaw Frames, Hacksaw Blades, V-Type Pulleys, Grease Rams, Spring Lubricators in the Nature of Devices Which Are Forced Between Spring Leaves To Separate Them and Which Serve as Conduits for Grease Forced to the Separated Leaves, Link Separators, Tube Flarers, and Tube Cutters.
Claims use since January 1939.

Ser. No. 622,386. Ernest A. Feustel Inc., Lodi, N. J. Filed Dec. 12, 1951.

DURA SAFETY TUBES

The words "Safety Tubes" are disclaimed apart from the mark as shown.

For Thread Guide Tube for Textile Machinery.
Claims use since Apr. 15, 1951.

Ser. No. 625,949. Aktiebolaget Atvidaberg-Facit, Stockholm, Sweden. Filed Mar. 5, 1952.

FACIT

Applicant claims ownership of Registrations Nos. 319,142 and 403,455.

For Typewriters, Check Protectors, Duplicators, Code Writers, Billing Machines, Addressing Machines, and Parts Thereof.
Claims use since June 1943; and use in commerce between foreign nations and the United States since January 1946.

Ser. No. 632,934. Goerlich's, Toledo, Ohio. Filed July 23, 1952.

SILENTONE

For Mufflers for Use With Internal Combustion Engines and Extensions for Tail Pipes.
Claims use since June 17, 1952

Ser. No. 633,036. The Cincinnati Milling Machine Co., Cincinnati, Ohio. Filed July 25, 1952.



The representation of the name plate as shown on the drawing is disclaimed. Applicant claims ownership of Registrations Nos. 239,034, 239,035, and others.

For Machines for Drawing Shapes in Sheet Metal.
Claims use since on or about the first day of February 1949

Ser. No. 633,037. Cleveland Industrial Tool Company, Inc., Euclid, Cleveland, Ohio. Filed July 25, 1952.

CITCO

For Hydraulically Operated Diamond Turning Tool for Use in Conjunction With Grinding Machines.
Claims use since on or about June 18, 1942.

Ser. No. 633,343. Zeuthen & Aagaard A/S., Copenhagen, Denmark. Filed July 31, 1952.

Rex-Rotary

No claim is made to the word "Rotary" apart from the mark as used.

For Duplicating Machines.
Claims use since Jan. 25, 1930; and since Dec. 31, 1949, in commerce between foreign countries and the United States.

Ser. No. 638,632. Balin Export Company, Inc., New York, N. Y. Filed Nov. 26, 1952.

∞ Concord ∞

For Sewing Machines.
Claims use since on or about Sept. 10, 1952.

Ser. No. 648,060. Superior Separator Company, Hopkins, Minn. Filed June 1, 1953.

SS

Applicant claims ownership of Registrations Nos. 401,088 and 533,660.
For Air Centrifuges Comprising a Centrifuge Separator for Recovery and Classification of Air or Gas-Borne Particles.
Claims use since Jan. 13, 1953.

Ser. No. 648,659. Flex-O-Lap Corporation, San Francisco, Calif. Filed June 12, 1953.

FLEXOLAP

Applicant claims ownership of Registration No. 539,423.
For Oscillating Couplings for Sanders, Grinders, and Rotary Polishers and Back Pads Therefor.
Claims use since May 1, 1953.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 638,291. Du-Tri Home Products, Chicago, Ill. Filed Nov. 19, 1952.



The person shown on the drawing is fanciful. No claim is made to representation of the goods apart from the mark as shown. The words "EZ Lift" are disclaimed apart from the mark as shown.
For Fork-Like Hand Operated Implements for Handling Wet Laundry.
Claims use since Nov. 1, 1952.

Ser. No. 639,846. X. S. Smith, Inc., Red Bank, N. J. Filed Dec. 20, 1952.

Flan-L-Tex

For Pads Formed of Metallic Filaments for Garment Pressing Machines.
Claims use since Aug. 25, 1952.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 606,902. Servo Corporation of America, New Hyde Park, N. Y. Filed Nov. 24, 1950.

SERVOTHERM

For Heat-Responsive Electrical Elements and Devices—Namely, Bolometers, Radiation Pyrometers; and Auxiliary Parts—Namely, Amplifiers and Power Supplies, Sold as a Unit.
Claims use since Apr. 20, 1950.

Ser. No. 611,414. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Mar. 16, 1951.

K-COLOR

The term "Color" is disclaimed apart from the mark.
For Sensitized Photographic Film.
Claims use since Aug. 2, 1950.

Ser. No. 639,278. Kurbi & Niggeloh, Radevormwald, Rhineland, Germany. Filed Dec. 10, 1952.

BILORA

For Photographic Apparatus—Namely, Cameras, Tripods, Lenses, Lens Shades, Filters, Cases for Cameras, Tripods, Lenses, and Filters.
Claims use since Jan. 29, 1920; and since 1936 in commerce between foreign nations and the United States.

Ser. No. 648,165. Federal Telecommunication Laboratories, Inc., Nutley, N. J. Filed June 3, 1953.

FTL

For Slotted Transmission Line for Making Electrical Measurements, Impedometers, T. V. Dummy Antennas, Oscilloscopes, Apparatus for Testing Arc Resistance of Circuits and Components.
Claims use since on about July 1, 1950.

Ser. No. 648,394. Gray Research and Development Company, Inc., Hartford, Conn. Filed June 8, 1953.

Gray telojector

For Optical Projectors for Transparencies.
Claims use since Jan. 15, 1953.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 648,334. Henry Spero, Inc., Ansonia, Conn. Filed June 5, 1953.

Speromatic

For Watches.
Claims use since Mar. 15, 1953.

Ser. No. 648,568. Rogers-United Corporation, New York, N. Y. Filed June 10, 1953.

Crèssine

For Watches.
Claims use since May 15, 1953.

Ser. No. 648,945. Perel & Lowenstein, Inc., Memphis, Tenn. Filed June 17, 1953.

PERLOW

For Watches.
Claims use since Oct. 1, 1952.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 647,647. Opalite, Inc., Philadelphia, Pa. Filed May 25, 1953.

Gem with the Burning Heart

The applicant disclaims the word "Gem" alone and apart from the mark as shown.
For Pendant Consisting of a Transparent Casing Filled With Liquid and Having Therein a Number of Semi-precious or Precious Stones.
Claims use since on or about July 1, 1950

Ser. No. 648,016. Gemex Company, Union, N. J. Filed June 1, 1953.

SUPER-CHIEF

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since May 21, 1953.

Ser. No. 648,747. Gemex Company, Union, N. J. Filed June 15, 1953.

CHEVALIER

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since May 29, 1953.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 580,193. Charles W. Harris, Painesville, Ohio. Filed June 9, 1949.

SUEDE-POT

No claim is made to the word "Pot" apart from the mark as shown in the drawing.
For Flower Pots of Clay and Ceramic Materials Having Exterior Coating Finishes of Different Colors.
Claims use since Apr. 1, 1949.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 647,074. Infilco Incorporated, Tucson, Ariz. Filed May 15, 1953.

ANEXER

Applicant claims ownership of Registrations Nos. 406,418 and 360,529.
For Anion Exchange Units for the Treatment of Liquids.
Claims use since Nov. 17, 1938.

Ser. No. 647,075. Infilco Incorporated, Tucson, Ariz. Filed May 15, 1953.

CATEXER

Applicant claims ownership of Registrations Nos. 406,419 and 358,612.
For Cation Exchange Units for the Treatment of Liquids.
Claims use since Nov. 17, 1938.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 598,138. Watson Manufacturing Company, Inc., Jamestown, N. Y. Filed May 25, 1950. (Sec. 2f.)

WATSON

For Filing Cabinets, Tables, Hospital Cabinet Work—Namely, Narcotic Supply Cabinets, Clothes Cabinets, Storage Cabinets, Linen Cabinets, Wardrobes, and Medicine Cabinets; Bank and Court House Counters and All Types of Special Work—Namely, Double Face Slope Top Desks, Non-Standard Size Filing Cabinets, Tables, and Storage Cabinets; Special Work for Hospitals, Banks, Court Houses, Museums, Libraries, and Offices—Namely, Nurses' Station Desks and Tables, Roller Shelf Cases, Document File Cases, Legal Blank Cases, Patent File-Cases, Bookcases, Map Drawer Cases, Plan File Cases, Office Tables, Work Tables, Office Machine Desks, Executive Desks, Clerical Desks, Letter, Legal, and Card Record Filing Cases and Cabinets.
Claims use since 1928.

Ser. No. 598,139. Watson Manufacturing Company, Inc., Jamestown, N. Y. Filed May 25, 1950. (Sec. 2f.)

WATSON

For Filing Cabinets, Tables, Hospital Cabinet Work—Namely, Narcotic Supply Cabinets, Clothes Cabinets, Storage Cabinets, Linen Cabinets, Wardrobes, and Medicine Cabinets; Bank and Court House Counters and All Types of Special Work—Namely, Double Face Slope Top Desks, Non-Standard Size Filing Cabinets, Tables, and Storage Cabinets; Special Work for Hospitals, Banks, Court Houses, Museums, Libraries, and Offices—Namely, Nurses' Station Desks and Tables, Roller Shelf Cases, Document File Cases, Legal Blank Cases, Patent File-Cases, Bookcases, Map Drawer Cases, Plan File Cases, Office Tables, Work Tables, Office Machine Desks, Executive Desks, Clerical Desks, Letter, Legal, and Card Record Filing Cases and Cabinets.
Claims use since 1928.

Ser. No. 621,993. Abby Chrome Corp., New York, N. Y. Filed Dec. 3, 1951.

HOUSE OF DINETTES

For Dinette Chairs and Dinette Tables.
Claims use since Jan. 1, 1949.

Ser. No. 632,417. Philip Cohen, trading under the name The Phillocraft Co., Philadelphia, Pa. Filed July 11, 1952.

PHILLOCRAFT

For Work Tables.
Claims use since May 19, 1952.

Ser. No. 634,379. Modern Color, Inc., Los Angeles, Calif. Filed Aug. 23, 1952.

AFRICAN Campaign CHAIR

Applicant disclaims the words "African" and "Chair" apart from the mark as shown.
For Chairs.
Claims use since May 16, 1949.

Ser. No. 639,226. Hodgman Rubber Company, Framingham, Mass. Filed Dec. 9, 1952. (Sec. 2f.)

TUFTLITE

For Pneumatic Mattresses.
Claims use since 1941.

Ser. No. 641,654. Edson, Incorporated, Chicago, Ill. Filed Jan. 6, 1953. (Sec. 2f.)

Edsonart

Applicant claims ownership of Registration No. 419,428.
For Pillows, Chair Seat Covers, Chair Seat Pads and Cushions, Chair Back Pads and Cushions, Bench Pads and Cushions, and Furniture Slip Covers.
Claims use since Mar. 18, 1944.

Ser. No. 643,468. B. T. Crump Company, Inc., Richmond, Va. Filed Mar. 11, 1953.

KULREST

For Glider Cushions, Glider Arm Pillows, Porch Chair Cushions, Chaise Lounge Cushions, Glider Slip Covers and Fitted Storm Covers for Outdoor Furniture, Glider and Chair Pads, and Pads for Sun Bathing and/or Beach Use.
Claims use since 1939.

Ser. No. 644,860. Modern Foam Rubber Company, New York and Franklin Square, N. Y. Filed Apr. 7, 1953.

FoamLand U. S. A!

No claim is made to the word "Foam" and the letters "U. S. A." apart from the mark as shown.
For Foam Rubber Mattresses, Box Springs and Head Boards, Settees, Couches, Bolsters, Pillows, and Cushions.
Claims use since Mar. 25, 1953.

Ser. No. 644,868. Quality Bedding Company, Huntington, W. Va. Filed Apr. 7, 1953.

Health-O-Matic

No claim is made to the word "Health" apart from the mark as shown in the drawing.
For Mattresses and Box Springs.
Claims use since January 1950.

Ser. No. 645,546. Charak Furniture Company, Boston, Mass. Filed Apr. 20, 1953. (Sec. 2f.)

DANBURY

Applicant claims ownership of Registration No. 338,100.
For Tables.
Claims use since Nov. 1, 1934.

Ser. No. 645,800. The Gillette Company, Gillette Park, Boston, Mass. Filed Apr. 23, 1953.

Mighty Midget

For Counter Display Racks for Holding Safety-Razor and Safety-Razor-Blade Sets.
Claims use since June 10, 1948.

Ser. No. 645,936. Victorian Furniture Corporation, Montgomery, Ala. Filed Apr. 24, 1953.

the CORONATION Chair

No claim is made to the words "The" and "Chair" apart from the mark as shown in the drawing.
For Chairs.
Claims use since Feb. 20, 1953.

Ser. No. 646,167. James Reickenback, Port Arthur, Tex. Filed Apr. 29, 1953.

PORTA-POT

Applicant disclaims the descriptive term "Pot" separately from the entire mark shown in the drawing.
For Portable Stand for Holding Multiple Flower Pots.
Claims use since July 1, 1952.

CLASS 33

GLASSWARE

Ser. No. 620,827. Rubin Glass & Mirror Co., Brighton, Mass. Filed Nov. 2, 1951.

TUF-BAK

The word "Tuf-Bak" is disclaimed apart from the mark as shown on the drawing.
For Mirror Glass in Sheet Form.
Claims use since April 1947.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 627,647. The Sponge Rubber Products Company, Shelton, Conn. Filed Apr. 5, 1952.

SPONGEX

Applicant claims ownership of Registrations Nos. 300,788, 321,895, and others.
For Closet Bowl Gaskets.
Claims use since Feb. 14, 1952.

Ser. No. 628,414. Vincent P. Long, Omaha, Nebr. Filed Apr. 21, 1952.

Tugger

"Tug For Tugger"

Applicant claims ownership of Registration No. 392,976.
For Pneumatic Tires Such as Used on Automobiles, Trucks, and the Like; Pneumatic Inner Tubes for Said Tires and Retreading Strips for Said Tires, Said Strips Being Ready To Vulcanize on the Worn Treads or Perimeters of Said Tires.
Claims use since on or about Feb. 29, 1952.

Ser. No. 634,260. Loxit Systems, Inc., Chicago, Ill. Filed Aug. 21, 1952. (Sec. 2f.)

LOXIT

For Metal Shims.
Claims use since during the year 1942.

Ser. No. 642,186. W. J. Voit Rubber Corp., Los Angeles, Calif. Filed Feb. 12, 1953.

INVINCIBLE

For Tire Repair Materials—Namely, Rubber Stock for Retreading, Cord Repair Fabrics, and Cushion Gums.
Claims use since April 1935.

CLASS 37

PAPER AND STATIONERY

Ser. No. 648,598. Eagle Pencil Company, New York, N. Y. Filed June 11, 1953.

CARDINAL

For Erasers and Lead Pencils.
Claims use since June 9, 1908.

Ser. No. 652,382. James Frank Dunleavy, Waltham, Mass. Filed Aug. 27, 1953.

THE FILEX LINE

The words "The" and "Line" appearing in the drawing are disclaimed apart from the mark as shown. The drawing is lined for shading purposes.
For Filing Supplies—Namely, Folders, Guides, Cards, Indexes, and Tabs.
Claims use since November 1942 as to the mark shown; and since March 1923 as to the mark "Filex."

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 641,612. Harold English, doing business as Prestix Products, Chicago, Ill. Filed Feb. 2, 1953.

PRESTIX

For Transparent Self-Adhering Sheets Having Certain Printed Matter Applied Thereto and Adapted To Be Cut Up for Application of Desired Portions of Said Material.
Claims use since on or about Jan. 9, 1953.

Ser. No. 646,273. H. S. Crocker Company, Inc., San Francisco, Calif. Filed May 1, 1953.

Pic-Tour

For Cartograph Maps.
Claims use since Aug. 15, 1952.

Ser. No. 646,960. Strohmeyer & Arpe Company, New York, N. Y. Filed May 13, 1953.

tr'eat

The lining appearing on certain letters in the drawing designates shading, those letters being of lighter imprint than the other letters of the mark.
For Monthly Periodical.
Claims use since Apr. 24, 1953.

Ser. No. 647,576. The Wm. S. Merrell Company, Cincinnati and Reading, Cincinnati, Ohio. Filed May 19, 1953.

PROGRESS NOTES

No claim is made to the exclusive right to the use of the word "Notes" separate and apart from the mark as shown.

For Periodical Distributed From Time to Time to Medical, Dental, Pharmaceutical, Pharmacy, and Allied Professions.

Claims use since Dec. 13, 1950.

Ser. No. 649,786. International Association of Milk and Food Sanitarians, Inc., Shelbyville, Ind. Filed July 3, 1953.

MILK AND FOOD SANITATION

Applicant claims ownership of Registration No. 531,941.

For Bi-Monthly Publication.

Claims use since during February 1948.

CLASS 39

CLOTHING

Ser. No. 600,763. Burton Hosiery Mills, Lynchburg, Va. Filed July 17, 1950. (Sec. 2f.)

Burton

For Hosiery for Women and Girls.

Claims use since Dec. 24, 1889.

Ser. No. 610,532. Westminster Shoe Co. Inc., Westminster, Md. Filed Feb. 26, 1951.

WESTMINSTER FLEXWELT CUSHION INSOLE FLEXIBLE CONSTRUCTION

No claim is made to "Cushion Insole," "Flexible Construction" or "Westminster" apart from the mark.

For Shoes for Women.

Claims use since Dec. 8, 1950.

Ser. No. 627,744. Handcraft Company, Inc., Princeton, Wis. Filed Apr. 8, 1952.

LUKSOX

For Socks for Men, Women, and Children.

Claims use since June 5, 1951.

Ser. No. 638,964. The Manhattan Shirt Company, New York, N. Y. Filed Dec. 4, 1952.

RICKSHA WEAVE

No claim is made to "Weave" apart from the mark as shown.

For Men's Outer Shirts of Cotton, Synthetic Fibers, and Mixtures Thereof.

Claims use since Nov. 19, 1952.

Ser. No. 644,347. Ripley Manufacturing Corp., New York, N. Y. Filed Mar. 27, 1953. (Sec. 2f as to "Ripley.")

Ripley TAILOR MADE CLOTHES

The words "Tailor Made Clothes" are hereby disclaimed except as part of the said trade-mark. Applicant claims ownership of Registration No. 361,028.

For Men's, Women's, and Younger Men's Clothing—Namely, Suits, Coats, Pants, Slacks, Sport-Jackets, Vests, Topcoats, and Overcoats.

Claims use since Mar. 30, 1950, on the mark as shown; and since March 1938 as to "Ripley."

Ser. No. 645,206. United States Rubber Company, New York, N. Y. Filed Apr. 13, 1953.

Gaylites

For Latex Overshoes for Women and Children.

Claims use since May 7, 1952.

Ser. No. 645,775. Capezio, Inc., New York, N. Y. Filed Apr. 23, 1953.

Permastitch

Applicant claims ownership of Registration No. 267,461

For Toe Dancing Slippers, for Use by Female Ballet Dancers.

Claims use since June 1, 1929.

Ser. No. 646,935. Miriam Gates Incorporated, Buffalo, N. Y. Filed May 13, 1953.

COMPLEMENT

For Brassières.

Claims use since January 1947.

Ser. No. 647,036. Plymouth Undergarment Co., New York, N. Y. Filed May 14, 1953.

Musical

For Ladies' Lingerie—Namely, Panties.

Claims use since Mar. 19, 1953.

Ser. No. 647,158. Champ Hats, Inc., Philadelphia, Pa. Filed May 18, 1953.

RAIN CHAMP

Applicant disclaims the word "Rain" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 346,141, 387,948, and others.

For Men's and Boys' Hats and Caps.

Claims use since Nov. 1, 1946.

Ser. No. 647,729. Streamline Garment Corp., Chicago, Ill. Filed May 26, 1953.

Slend-eze

For Ladies' Dresses.

Claims use since on or about Dec. 1, 1945.

Ser. No. 648,826. Eagle Clothes, Inc., Brooklyn, N. Y. Filed June 12, 1953.

7070

For Men's Clothing—Namely, Coats, Topcoats, and Suits.

Claims use since May 21, 1953.

Ser. No. 649,025. Sears, Roebuck and Co., Chicago, Ill. Filed June 18, 1953.

Seralon

For Men's and Boys' Suits, Trousers, Slacks, Jackets, Caps.

Claims use since on or about Jan. 2, 1952.

Ser. No. 649,331. Tex-Son, Inc., San Antonio, Tex. Filed June 24, 1953.

TEX-SON

Applicant claims ownership of Registration No. 370,083.

For Articles of Wearing Apparel for Children—Namely, Play Suits, Sun Suits, Short and Long Pants, Shirts, Blouses, Middle Blouses, Overalls, Riding Breeches, Jackets, Jodhpurs, Dresses, Slacks, and Suits.

Claims use since Sept. 8, 1952.

Ser. No. 649,551. Vanity Corset Company, Inc., New York, N. Y. Filed June 29, 1953.

CINCHALL

For Corsets, Corselets, Girdles, Bandeaux, Panties, Brassières, and Foundation Garments.

Claims use since June 8, 1953.

Ser. No. 649,608. Samuel Parnes & Sons, Inc., New York, N. Y. Filed June 30, 1953.

AQUAPLEATER

For Ladies' and Misses' Outer Pleated Skirts.

Claims use since May 19, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 613,885. Solo Products Corporation, New York, N. Y. Filed May 15, 1951.

SOLO

Applicant claims ownership of Registrations Nos. 380,771 and 327,752.

For Barrettes, Plastic Hair Curlers, Non-Electric Metal Hair Curlers, Bobby Pins, Combs, Hair Wavers, Hair Curl Rollers, Hair Curl Clips, Hair Pins, and Hair Ringlet Rollers.

Claims use since Apr. 18, 1950.

Ser. No. 640,763. John Tangorra, New York, N. Y. Filed Jan. 14, 1953.

Spallette

Applicant claims ownership of Registration No. 421,475.

For Garment Shoulder Pads.

Claims use since Jan. 9, 1953.

Ser. No. 642,149. The I. Leon Co., Inc., Massapequa, N. Y. Filed Feb. 12, 1953.

FASCLIPS

The lining on the drawing is a reproduction of the lining on the specimens.

For Curl Clips.

Claims use since Jan. 12, 1953.

Ser. No. 647,373. Rhode Island Textile Company, Pawtucket, R. I. Filed May 20, 1953.

Jewel

Applicant claims ownership of Registration No. 105,079.

For Shoe Laces, Corset Laces, and Elastic Braid Sold as Notions.

Claims use since May 1, 1953, as shown; and since Jan. 1, 1915, as to "Jewel" in a diamond design.

Ser. No. 649,634. Cory Jane Originals, Inc., Indianapolis, Ind. Filed July 1, 1953.

CURVET

For Resilient Bands for Supporting Clamp-On Aprons and the Like.

Claims use since Mar. 20, 1953.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 639,345. Tanbro Fabrics Corp., New York, N. Y. Filed Dec. 11, 1952.

ORLO-TAN

Applicant disclaims the descriptive word "Tan" apart from the mark as shown on the drawing.

For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fibers.

Claims use since May 8, 1952.

Ser. No. 640,241. Tanbro Fabrics Corp., New York, N. Y. Filed Dec. 31, 1952.

Crushed Ice

For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fibres.

Claims use since Apr. 15, 1952.

Ser. No. 641,316. Merrimack Manufacturing Company (1952), Lowell, Mass. Filed Jan. 26, 1953.

Merrical

Applicant claims ownership of Registrations Nos. 376,434 and 547,186.

For Textile Fabrics of Cotton, Wool, and Synthetic Fibers.

Claims use since Nov. 14, 1952.

Ser. No. 644,207. The Firestone Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1953.

Velón

Applicant claims ownership of Registrations Nos. 554,678, 513,375, and others.

For Upholstery Fabrics Woven or Knitted of Plastic Filaments or Synthetic Resin Fibers.

Claims use since on or about Apr. 1, 1942.

Ser. No. 641,631. Knit-King Corporation, New York, N. Y. Filed May 25, 1953.

KNITKING

For Knitted Fabrics in the Piece Made of Cotton, Wool, and Synthetic Fibers and Used in the Manufacture of Ladies' Dresses, Jumpers, Sweaters, and Hats.

Claims use since March 1953.

Ser. No. 648,988. The Fritz & Larue Company, New York, N. Y. Filed June 18, 1953.

JEWEL of KASHMIR

The applicant disclaims the geographically descriptive phrase "of Kashmir," apart from the mark as shown on the drawing.

For Woven and/or Knotted Rugs and Carpets.

Claims use since 1940.

Ser. No. 649,375. M. Lowenstein & Sons, Inc., New York, N. Y. Filed June 25, 1953.

Creashrunk

For Piece Goods of Cotton, Rayon, and Combinations Thereof.

Claims use since Feb. 15, 1953.

Ser. No. 649,486. Crown Fabrics Corporation, New York, N. Y. Filed June 29, 1953. (Sec. 2f.)

BAHAMA

Applicant claims ownership of Registration No. 388,502.

For Cotton, Spun Rayon, and Spun Acetate Fabrics and Mixtures Thereof in the Piece.

Claims use since March 1940.

Ser. No. 649,559. Joseph Bancroft & Sons Co., Wilmington, Del. Filed June 30, 1953.

TUTORED FABRICS

The word "Fabrics" is disclaimed apart from the mark as shown.

For Fabrics of Cotton and of Synthetic Fibers, Including Nylon and Rayon, and Combinations Thereof.

Claims use since June 16, 1953.

CLASS 43

THREAD AND YARN

Ser. No. 646,316. Royal Cotton Mill Company, Saxapahaw and Wake Forest, N. C. Filed May 1, 1953.

Royal Homespun

The word "Homespun" is disclaimed apart from the mark as shown on the drawing.

For Knitting Yarns.

Claims use since on or about Jan. 26, 1952.

Ser. No. 649,124. Cie Franco-Australienne de Laines Filees (Societe a Responsabilite Limitee), Roubaix, Nord, France. Filed June 22, 1953.



PENGUIN

Applicant claims ownership of French Registration No. 6,574, dated Apr. 16, 1951.

For Yarns of All Types, Especially Woolen Yarns.

Ser. No. 649,127. Compagnie Franco-Australienne de Laines Filees (Societe a Responsabilite Limitee), Roubaix, Nord, France. Filed June 22, 1953.

Vivifix

Applicant claims ownership of French Registration No. 5,996, dated May 21, 1949.

For Woolen Yarns of All Types.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 638,596. National Hygienic Products Corp., Akron, Ohio. Filed Nov. 25, 1952.



CHAMP

The representation of a person is fanciful.

For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.

Claims use since Aug. 10, 1950.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 645,850. Warwick Club Ginger Ale Co., Inc., West Warwick, R. I. Filed Apr. 23, 1953.

FORM

The stippling shown on the drawing is for shading purposes only.

For Dietetic Non-Alcoholic Maltless Soft Drink.

Claims use since Mar. 16, 1953.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 615,004. Rademaker's Koninklijke Cacao-en Chocoladefabrieken N. V., The Hague, Netherlands. Filed May 23, 1951. (Sec. 2f as to "Rademaker's.")



All words except the word "Rademaker's" are disclaimed. Applicant claims ownership of United States Registrations Nos. 295,128, 82,808, and others.

For Coffee Flavored Candies of the Type Known as "Hopjes."

Claims use since 1901 in Holland and first used in commerce between Holland and the United States in 1921.

Ser. No. 620,715. Anderson & Hamer, Carmel, Calif. Filed Oct. 31, 1951.

Padre Trail
GOURMET FOODS
CARMEL-BY-THE-SEA
CALIFORNIA

For Salad Dressings.

Claims use since Oct. 10, 1951.

Ser. No. 623,379. Strohmeyer & Arpe Company, New York, N. Y. Filed Jan. 9, 1952.

MISS PETITE

Applicant claims ownership of Registration No. 102,770.

For Sweet Gherkins.

Claims use since Dec. 20, 1951.

Ser. No. 624,465. Carnation Company, Los Angeles, Calif. Filed Feb. 4, 1952.

"PERFECT 36"

For Livestock and Poultry Feed.

Claims use since Dec. 17, 1951.

Ser. No. 632,081. F & F Laboratories, Inc., Chicago, Ill. Filed July 2, 1952.

F&F CHLOROPHYLL

The drawing is lined for red and green. The words "Chlorophyll Mints" apart from the mark shown are disclaimed. Applicant claims ownership of Registration No. 246,040.
For Candy.
Claims use since Apr. 10, 1952.

Ser. No. 641,312. MacGregor Fisheries Inc., New York, N. Y. Filed Jan. 26, 1953.



For Smoked and Frozen Fish.
Claims use since Jan. 14, 1953.

Ser. No. 641,824. Albers Super Markets, Inc., Cincinnati, Ohio. Filed Feb. 6, 1953.

Alberly

Applicant claims ownership of Registration No. 322,574.
For Bread and Ice Cream.
Claims use since May 1937.

Ser. No. 642,152. Mead Johnson & Company, Evansville, Ind. Filed Feb. 12, 1953.

Sustagen

For Formulation of Essential Food Constituents in Powder Form Consisting of Whole Milk, Non-Fat Milk Solids, Maltose, Dextrins, Calcium Caseinate, Dextrose, Minerals, and Vitamins, Designed for Optimal Nourishment.
Claims use since Jan. 6, 1953.

Ser. No. 648,222. Williamson Candy Company, Chicago, Ill. Filed June 3, 1953.

OH HENRY!
COCONUT TREAT

No claim is made to the exclusive use of the words "Coconut Treat" apart from the mark shown in the drawing. Applicant claims ownership of Registrations Nos. 152,550, 384,529, and others.
For Candy.
Claims use since Apr. 30, 1953.

CLASS 47

WINES

Ser. No. 598,349. California Grape Products Co., Ltd. New York, N. Y. Filed May 31, 1950.

Urban Club

Applicant disclaims the descriptive word "Club" separately from the entire mark shown in the drawing.
For Wines.
Claims use since Apr. 5, 1950.

Ser. No. 620,530. Soc. An. Vinicola Italiana Florio-Ingham Whitaker-Woodhouse & C., also doing business as Florio & C., Turin, Italy. Filed Oct. 26, 1951. (Sec. 2f.)

FLORIO

Applicant claims ownership of Registrations Nos. 103,159 and 364,727.
For Wines.
Claims use since Jan. 1, 1883; and since Dec. 1, 1883, between foreign nations and the United States.

Ser. No. 642,536. Federated Department Stores, Inc., doing business under the name Bloomingdale Bros., Cincinnati, Ohio, and New York, N. Y. Filed Feb. 20, 1953.

Vin d'Auberge

"Vin d'Auberge" is French for "Wine of the Inn." "Vin" is disclaimed apart from the mark as shown in the drawing.
For Wine.
Claims use since July 23, 1952.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 628,723. Sicks' Seattle Brewing & Malting Co., Seattle, Wash. Filed Apr. 25, 1952.

Brew 66

The word "Brew" is disclaimed apart from the mark as shown.
For Beer.
Claims use since July 9, 1951.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 616,858. Magnesium Company of America (Incorporated), East Chicago, Ind. Filed July 24, 1951.

MAGCOA

Applicant claims ownership of Registration No. 442,178.
For Dockboards and Barrel Skids.
Claims use since May 9, 1946.

Ser. No. 628,535. L. Stanley Hunsberger, doing business as Graystan Products, Philadelphia, Pa. Filed Apr. 23, 1952.

SNOWIES

For Cutouts of Glass Fiber Sheets in the Form of Stars, Animals, Human Figures, and Snow Crystals for Use on Glass Surfaces.
Claims use since Sept. 22, 1951.

Ser. No. 639,508. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Blouse Trees in the Nature of a Clothes Hanger Made of Metal, Wood, Plastic or Cardboard.
Claims use since 1867.

Ser. No. 641,494. Philip Brenner Associates, Inc., New York, N. Y. Filed Jan. 29, 1953.

RIPPLE-REST

For Sponge Rubber Mat Known as a Fatigue Mat.
Claims use since Aug. 1, 1952.

Ser. No. 649,305. The Howe Scale Company, Rutland, Vt. Filed June 24, 1953. (Sec. 2f.)

HOWE

Applicant claims ownership of Registration No. 87,997.
For Platform Skids.
Claims use since 1857.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 629,383. Old 97 Manufacturing Company, doing business as Old 97 Company, Tampa, Fla. Filed May 8, 1952.

97

Applicant claims ownership of Registration No. 357,751.
For Hair Dressing.
Claims use since Jan. 1, 1951.

Ser. No. 648,130. Priscilla Alden Cosmetics, Inc., New York, N. Y. Filed June 2, 1953.

Classic Beauty

For Creams, Lotions, and Powders for the Face and Skin.
Claims use since Apr. 6, 1953.

Ser. No. 648,134. Revlon Products Corporation, New York, N. Y. Filed June 2, 1953.

'CHERRIES IN THE SNOW'

For Lipstick and Nail Enamel.
Claims use since May 19, 1953.

Ser. No. 648,243. Abe Goldberg, New York, N. Y. Filed June 4, 1953.

SUN MATE

For Sun Tan Lotion.
Claims use since May 8, 1953.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 641,220. Standard Rewashed Wipers Co., Chicago, Ill. Filed Jan. 23, 1953.

"STAN-WIPE"

Applicant claims the exclusive right to the use of the word "Wipe" as a part of its service mark, but not otherwise.
For Rental of Towels for Industrial and Other Uses.
Claims use since on or about Dec. 1, 1950.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 617,818. Shinderman Management Corporation, Chicago, Ill. Filed Aug. 17, 1951.



For Management of Hotels, Resorts and Similar Types of Properties, and the Management of Cocktail Lounges,

Restaurants, Gift Shops, Night Clubs; and Bath, Health, and Reducing Salons Relating to the Resort and Hotel Business.

Claims use since Apr. 6, 1951.

Ser. No. 625,192. Cappel, MacDonald and Company, Dayton, Ohio. Filed Feb. 19, 1952.

the FIRST NATIONAL PRIZE BANK

No claim is made to the word "Prize" apart from the mark as shown.

For Sales Promotion of Customer's Goods and Services by Establishing a Sales Incentive Program Through Issuance to Customers of Prize Certificates Redeemable in Merchandise.

Claims use since Feb. 1, 1952.

Ser. No. 625,660. Columbia Broadcasting System, Inc., New York, N. Y. Filed Feb. 28, 1952.

CBS RADIO SPOT SALES

The descriptive words "Radio Spot Sales" are disclaimed by applicant. Applicant claims ownership of Registration No. 381,572.

For Representing Independent Radio Broadcasting Stations in the Sale of Radio Time, Talent, and Program Materials.

Claims use since Oct. 1, 1951.

Ser. No. 632,099. Porcelain Enamel Institute, Inc., Washington, D. C. Filed July 2, 1952.



The mark consists of the simulation of a hand holding a package with the words "Safe Transit" displayed below the hand. The whole is enclosed with a border line in red with the words in a light color on a red background and the hand and outline of the package in red on a light background. No claim is made to the words "Safe Transit" apart from their use on the mark as shown.

For Establishing Procedures for Pre-Shipment Testing of Packaged Products for Manufacturers Who Certify That They Utilize the Procedures.

Claims use since Oct. 15, 1949.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 637,986. Continental Check Corporation, Wilmington, Del. Filed Nov. 13, 1952.



Applicant disclaims the words "Money Order" and representation of the North American continent apart from the mark as shown. The lining forms a part of the mark, and is not intended to represent color.

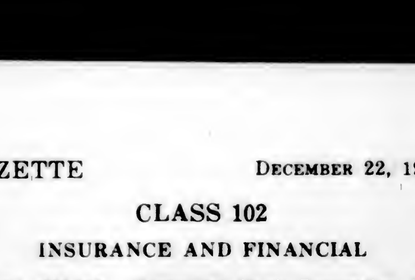
For Issuing and Redeeming Money Orders.

Claims use since Oct. 13, 1952.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 610,694. Lien Chemical Company, Franklin Park, Ill. Filed Mar. 1, 1951.



The drawing is lined for the colors red and blue. No claim is made to the words "Certificate of Cleanliness" or "Chemical Company" for registration purposes and apart from the service mark as shown. Applicant claims ownership of Registrations Nos. 517,276 and 542,031.

For Sanitation Services—Namely, Inspection, Regular and Scientific Cleaning, Disinfecting and Deodorizing of All Toilet Facilities.

Claims use since Feb. 1, 1950.

Ser. No. 618,621. Brightly Galvanized Products, Inc., Cicero, Ill. Filed Sept. 11, 1951.

GALVĪNYL

For Coating Metallic Articles With a Protective Coating of Vinyl Resin, Pigmented to Required Color and Subsequently Baked.

Claims use since Aug. 8, 1950.

Ser. No. 625,375. Texas Lawn Sprinkler Company, Inc., Dallas, Tex. Filed Feb. 21, 1952.

Blueprint for Rain

For Installation of Automatic Lawn Sprinkler Systems.

Claims use since Jan. 15, 1947.

Ser. No. 635,943. Richard H. Tynes, doing business as Tynes Upholstering Company, Washington, D. C. Filed Sept. 29, 1952. (Sec. 2f.)

My furniture stands up when you sit down.

For Re-Upholstering of Furniture.

Claims use since during February 1946.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 627,728. Alaska Airlines, Inc., Anchorage, Territory of Alaska, and elsewhere. Filed Apr. 8, 1952.

North Pole Express

For Air Transportation of Passengers and Freight.

Claims use since Dec. 2, 1951.

Ser. No. 641,857. Northwest Airlines, Inc., St. Paul, Minn. Filed Feb. 6, 1953.

AIRVENTURES

For Air Transportation of Passengers and Cargo and for Planning and Conducting Tours by Airplane But Including the Use of Other Vehicles on Such Tours.

Claims use since Nov. 21, 1952.

Ser. No. 642,348. Great Lakes Transatlantic, Inc., Chicago, Ill. Filed Feb. 17, 1953.

FJELL LINE

The Norwegian word "Fjell," in English, means "mountain." The word "Line" is disclaimed separate and apart from the mark as shown.

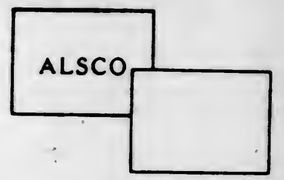
For Transportation by Ship of Packaged Freight and Other Cargo Between Ports of the Great Lakes in the United States and Canada and European Ports.

Claims use since on about Jan. 1, 1936.

CLASS 106

MATERIAL TREATMENT

Ser. No. 636,656. Scola Dye Works, Inc., Hawthorne, N. J. Filed Oct. 15, 1952.



For Treating Silk and Other Textile Fabrics To Minimize Spotting.

Claims use since Aug. 20, 1952.

Ser. No. 646,938. Gladwin Plastics Co., Atlanta, Ga. Filed May 13, 1953. (Sec. 2f as to "Gladwin.")



No exclusive claim is made to the words and letters "Plastics, Atlanta, USA" apart from the mark as shown.

For Fabrication of Plastic Materials on a Custom Basis.

Claims use since Feb. 13, 1953, as to the mark shown; and since Aug. 27, 1947, as to the mark "Gladwin."

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 648,574. Stenoscript Shorthand Institute, Washington, D. C. Filed June 10, 1953.

Stenoscript

For Teaching a Method of Shorthand.

Claims use since Feb. 27, 1953.

TRADE-MARK REGISTRATIONS GRANTED
ACT OF 1946, PRINCIPAL REGISTER

583,759. Poultry and Stock Feed, the Principal Ingredients of Which Are Corn, Mill Feed, and Alfalfa. Ralston Purina Company, St. Louis, Mo.
Filed Mar. 22, 1948, Serial No. 552,707. Published Sept. 8, 1953. Class 46.

583,760. Woolen Piece Goods. Wawak Company, Inc., Chicago, Ill.
Filed June 15, 1948, Serial No. 559,261. Published June 30, 1953. Class 42.

583,761. Canned Fruits, Canned Vegetables, and Canned Shrimp. Mayhaw Canning Company, Inc., Laurel, Miss.
Filed Aug. 24, 1948, Serial No. 563,943. Published Sept. 8, 1953. Class 46.

583,762. Granular Material To Soak Up Spillages on Floors. The Cincinnati Oil Works Co., Cincinnati, Ohio.
Filed Apr. 1, 1949, Serial No. 576,446. Published Nov. 6, 1951. Class 6.

583,763. Hand Operated Sprayers for Liquid Preparations for Cleaning, Deodorizing, and Insecticidal Purposes. Boyle-Midway Inc., Jersey City, N. J.
Filed July 5, 1949, Serial No. 581,515. Published Jan. 15, 1952. Class 23.

583,764. Periodical Publication Column Relating to Sports and Sports Merchandise. The Brunswick-Balke-Collender Company, Chicago, Ill.
Filed May 12, 1950, Serial No. 597,319. Published Sept. 29, 1953. Class 38.

583,765. Fruit Flavored Bases for Making Soft Drinks. Presto Beverage Corporation, Brooklyn, N. Y.
Filed June 3, 1950, Serial No. 598,546. Published Sept. 15, 1953. Class 45.

583,766. Frozen Snapper Soup. David F. McCallister, Upper Darby, Pa., assignor to McCallister and Company, Cheltenham, Pa., a partnership.
Filed July 15, 1950, Serial No. 600,729. Published Sept. 22, 1953. Class 46.

583,767. Microwave Plumbing—Namely, Transmission Line Couplers, Transmission Line Directional Couplers, Transmission Line Rotary Joints, Transmission Line Power Dividers, Electrical Phase Shifters, and Electrical Switches. The Sperry Corporation, New York and Great Neck, N. Y.
Filed July 20, 1950, Serial No. 600,994. Published Sept. 22, 1953. Class 21.

583,768. Push Button Switches in Electric Arc Welding Equipment. The Lincoln Electric Company, Cleveland, Ohio.
Filed July 25, 1950, Serial No. 601,221. Published Sept. 22, 1953. Class 21.

583,769. Fruit and Berry Preserves, Jams, Marmalades; Fruit Syrups for Food Purposes; Pickles; Sauces; Mustard; Canned Meat Balls, Canned Beef, and Canned Corn Beef Hash. P. Håkanssons Konserver Aktiebolag, Eslov, Sweden.
Filed July 28, 1950, Serial No. 601,486. Published Sept. 22, 1953. Class 46.

583,770. Potato Chips, Deep-Fried Cheese-Flavored Corn-Meal Product in Puffed Form, Corn-Chips, French Fried Potatoes, and Peanut Butter. Bell Brand Foods, Ltd., Vernon, Calif.
Filed Sept. 28, 1950, Serial No. 604,139. Published Sept. 29, 1953. Class 46.

583,771. Potato Chips, Deep-Fried Cheese-Flavored Corn-meal Product in Puffed Form, Corn Chips, French Fried Potatoes, Peanut Butter. Bell Brand Foods, Ltd., Vernon, Calif.
Filed Sept. 28, 1950, Serial No. 604,140. Published Sept. 29, 1953. Class 46.

583,772. Potato Chips, Deep-Fried Cheese-Flavored Corn-meal Product in Puffed Form, Corn Chips, French Fried Potatoes, and Peanut Butter. Bell Brand Foods, Ltd., Vernon, Calif.
Filed Sept. 28, 1950, Serial No. 604,141. Published Sept. 29, 1953. Class 46.

583,773. Merchandise Bags Made of Flexible Sheet Materials. Shellmar Products Corporation, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York.
Filed Oct. 16, 1950, Serial No. 604,992. Published Sept 29, 1953. Class 2.

583,774. Wallets or Billfolds and Ladies' Hand Bags, Made Wholly or Partly of Leather. Aristocrat Leather Products, Inc., New York, N. Y.
Filed Oct. 18, 1950, Serial No. 605,084. Published Sept. 29, 1953. Class 3.

583,775. Exterior and Interior House Paints, Exterior House Paint Primers, Finishes, Varnishes, Enamels, and Oil Colors. W. J. Lynch Paint & Varnish Co., Inc., East Providence, R. I.
Filed Oct. 19, 1950, Serial No. 605,166. Published Apr. 29, 1952. Class 16.

583,776. Whiskey. Joseph S. Finch and Company, also doing business as The Gibson Distilling Company, New York, N. Y.
Filed Dec. 20, 1950, Serial No. 607,896. Published Sept 15, 1953. Class 49.

583,777. Automobile Seat Cover Installation Kit Containing a Pair of Hog Ring Pliers, Seat Cover Pins, Hog Ring Fasteners, and Cut Tacks. The Pure Oil Company, Chicago, Ill.
Filed Feb. 13, 1951, Serial No. 610,025. Published Sept. 15, 1953. Class 50.

583,778. Quick-Frozen Fish Fillets Wrapped and/or Packed in Non-Metal Containers and Requiring Constant Refrigeration Until Processed for Eating. Grimsby Frozen Products Limited, Grimsby, England.
Filed Mar. 12, 1951, Serial No. 611,178. Published Feb 12, 1952. Class 46.

583,779. Venetian Blinds. Jencraft Manufacturing Co., East Paterson, N. J.
Filed May 8, 1951, Serial No. 613,644. Published Sept. 29, 1953. Class 32.

583,780. Face Lotion and Body Lotion With Sunburn Preventive Properties. Helena Rubinstein, Inc., New York, N. Y.
Filed June 1, 1951, Serial No. 614,631. Published Sept. 29, 1953. Class 51.

583,781. Laxative Preparation. Makers of Kal, Inc. Los Angeles, Calif.
Filed June 4, 1951, Serial No. 614,704. Published Feb. 3, 1953. Class 18.

583,782. Woven and Knitted Cotton, Silk, and Rayon Fabrics. Adero Silk Inc., New York, N. Y.
Filed June 8, 1951, Serial No. 614,916. Published Sept. 29, 1953. Class 42.

583,783. Wines. A. Bologna & Company, New Orleans, La.
Filed June 26, 1951, Serial No. 615,682. Published Sept. 15, 1953. Class 47.

583,784. Refractory Shapes and Heat Resisting Formed Clay Bodies; Etc. Gladding, McBean & Co., Los Angeles, Calif.
Filed July 2, 1951, Serial No. 615,978. Published Sept. 29, 1953. Class 12.

583,785. Mass Card Folders Containing Religious Pictures and Printed Membership Certificates. Friars of the Atonement, Inc., Garrison, N. Y.
Filed July 24, 1951, Serial No. 616,852. Published Sept. 29, 1953. Class 38.

583,786. Cartons of Crystallized Ginger Composed of Ginger, Sugar, and Water, Sold for Food Purposes. J. Lyons & Co. Ltd. Inc., Baltimore, Md., and Jersey City, N. J.
Filed July 24, 1951, Serial No. 616,857. Published Sept. 15, 1953. Class 46.

583,787. Cherry Liqueur. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France.
Filed Aug. 15, 1951, Serial No. 617,711. Published Sept. 8, 1953. Class 49.

583,788. Apricot Liqueur. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France.
Filed Aug. 15, 1951, Serial No. 617,712. Published Sept. 8, 1953. Class 49.

583,789. Alcoholic Liqueurs—Namely, Creme de Menthe. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier Fils Aine et Cie), Paris, France.
Filed Aug. 15, 1951, Serial No. 617,715. Published Sept. 15, 1953. Class 49.

583,790. Vehicle Brakes. Bendix Aviation Corporation, Detroit, Mich.
Filed Sept. 13, 1951, Serial No. 618,725. Published Sept. 29, 1953. Class 19.

583,791. Garment Bags Designed and Intended To Protect Garments, Etc. Consolidated Commodities, Inc., New York, N. Y.
Filed Sept. 28, 1951, Serial No. 619,332. Published Sept. 29, 1953. Class 2.

583,792. Men's Suits, Slacks, Jackets, and Topcoats. The J. L. Hudson Company, Detroit, Mich.
Filed Nov. 13, 1951, Serial No. 621,150. Published Sept. 1, 1953. Class 39.

583,793. Alcoholic Beverages—Namely, Whiskey. Julius Kessler Distilling Co., Inc., Lawrenceburg, Ind.
Filed Nov. 23, 1951, Serial No. 621,562. Published Sept. 15, 1953. Class 49.

583,794. Storage and Transporting Containers for Use in Carrying and Dumping Materials—Namely, Refuse, Trash, Garbage, Scrap, Dirt, and Rock. Dempster Brothers, Inc., Knoxville, Tenn.
Filed Dec. 3, 1951, Serial No. 622,015. Published Sept. 29, 1953. Class 2.

583,795. Whiskey. Highspire Distillers Corporation, Philadelphia, Pa., assignor to Renfield Importers, Limited, Newark, N. J., a corporation of New Jersey.
Filed Dec. 6, 1951, Serial No. 622,156. Published Sept 15, 1953. Class 49.

583,796. Buccal or Sublingual Tablets Containing Crystalline Alpha-Estradiol and Testosterone for Use in the Treatment of Hypo-Ovarianism. Marlyn Co., Inc., Los Angeles, Calif.
Filed Dec. 17, 1951, Serial No. 622,607. Published Sept. 15, 1953. Class 18.

583,797. Fresh Dressed Poultry, Both Frozen and Unfrozen, Poultry Feed, and Livestock Feed. William Howard Kauffman, Waterman, Ill.
Filed Dec. 20, 1951, Serial No. 622,720. Published Sept. 22, 1953. Class 46.

583,798. Patching Material—Namely, Vinyl Plastic in Sheet Form Coated With Adhesive. B. B. Chemical Co., Boston, Mass.
Filed Dec. 22, 1951, Serial No. 622,766. Published Sept. 29, 1953. Class 5.

583,799. Razors, Shears, Scissors, Knives, of Base Metal, and Hair Clippers. Pearlduck, Inc., New York, N. Y.
Filed Jan. 4, 1952, Serial No. 623,203. Published Feb 10, 1953. Class 23.

583,800. Medicinal Skin Lotion for External Application in Sunburn, Chafing, and Minor Skin Irritations. The Drug Products Co., Inc., East Orange, N. J.
Filed Jan. 21, 1952, Serial No. 623,827. Published Sept. 15, 1953. Class 18.

583,801. Artists' Canvases. Ralph E. Grossman, doing business as Picture Craft Company, Decatur, Ill.
Filed Jan. 22, 1952, Serial No. 623,883. Published Sept. 15, 1953. Class 50.

583,802. Canned Vegetables. The Larsen Company, Green Bay, Wis.
Filed Jan. 24, 1952, Serial No. 624,036. Published Sept. 15, 1953. Class 46.

583,803. Whole, Fresh Tomatoes; Shelled and Unshelled Nuts as Follows, Filberts, Almonds, Brazils, Walnuts, Pecans, and Peanuts; and Dates. Di Mare Bros., Boston and South Boston, Mass.
Filed Jan. 26, 1952, Serial No. 624,131. Published Feb. 24, 1953. Class 46.

583,804. Electrically Lighted and Operated Advertising Display of the Optical Illusion Type. Video-Matic Co., Inc., New York, N. Y.
Filed Jan. 29, 1952, Serial No. 624,254. Published Sept. 22, 1953. Class 21.

583,805. Frozen Food Cabinets, Refrigerating Dairy Wall Cases, Refrigerating Full Vision Display Cases, Etc. Coldin Cabinet Company, Inc., New York, N. Y.
Filed Feb. 25, 1952, Serial No. 625,460. Published Aug. 18, 1953. Class 31.

583,806. Frozen Food Cabinets, Refrigerating Dairy Wall Cases, Refrigerating Full Vision Display Cases, Refrigerating Formica Top Counter High Display Cases, Refrigerating Meat and Delicatessen Display Cases, and Refrigerating Display Counters. Coldin Cabinet Company, Inc., New York, N. Y.
Filed Feb. 25, 1952, Serial No. 625,461. Published Aug. 18, 1953. Class 31.

583,807. Paint Brushes, Wall Brushes, Stucco Brushes. Pitegoff Brothers, Inc., Brooklyn, N. Y.
Filed Feb. 27, 1952, Serial No. 625,625. Published Sept. 29, 1953. Class 29.

583,808. Infants' Furniture—To Wit, Infants' Combined Cribs and Play Pens. Rich Industries, Inc., Clinton, Iowa.
Filed Mar. 10, 1952, Serial No. 626,218. Published Sept. 29, 1953. Class 32.

583,809. Safety Paper Such as Is Used for Bank Checks, Bank Drafts, and Other Checks and Drafts, Bills of Exchange, Promissory Notes, Tickets, Certificates, and All Vouchers of Value. George La Monte & Son, Nutley, N. J.
Filed Mar. 15, 1952, Serial No. 626,514. Published Sept. 22, 1953. Class 37.

583,810. Oral Pharmaceutical Preparation Indicated for Use Where a Vitamin B-Complex Supplement Is Required. The S. E. Massengill Company, Bristol, Tenn.
Filed Mar. 19, 1952, Serial No. 626,682. Published Sept. 15, 1953. Class 18.

583,811. Injectable Veterinary Preparation Indicated for Treating Conditions Requiring Calcium Therapy. The S. E. Massengill Company, Bristol, Tenn.
Filed Mar. 19, 1952, Serial No. 626,684. Published Sept. 8, 1953. Class 18.

583,812. Canned Fish. South Pacific Canning Company, Long Beach, Calif.
Filed Mar. 22, 1952, Serial No. 626,909. Published June 23, 1953. Class 46.

583,813. Preparation for Producing Analgesia Accompanied by Relaxation. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia.
Filed Mar. 22, 1952, Serial No. 626,911. Published Sept. 8, 1953. Class 18.

583,814. Medicinal Preparation for the Treatment of Intestinal Amebiasis. Abbott Laboratories, North Chicago, Ill.
Filed Mar. 29, 1952, Serial No. 627,236. Published Sept. 8, 1953. Class 18.

583,815. Women's and Girls' Pajamas, Pajama Coats, Beach Coats, Smock Coats, Utility Coats, and Bath Robes. Kaylon Incorporated, New York, N. Y.
Filed Apr. 9, 1952, Serial No. 627,822. Published Aug. 11, 1953. Class 39.

583,816. Pickles and Sauerkraut. Rothman Pickle Products, Inc., Jamaica, N. Y.
Filed Apr. 9, 1952, Serial No. 627,841. Published Sept. 15, 1953. Class 46.

583,817. Medicinal Preparation for the Treatment of Pre-Menstrual Tension. Schenley Laboratories, Inc., New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,967. Published Sept. 15, 1953. Class 18.

583,818. Medicinal Preparation for the Treatment of Pre-Menstrual Tension. Schenley Laboratories, Inc., New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,968. Published Sept. 15, 1953. Class 18.

583,819. Medicinal Preparation for the Treatment of Pre-Menstrual Tension. Schenley Laboratories, Inc., New York, N. Y.
Filed Apr. 11, 1952, Serial No. 627,969. Published Sept. 15, 1953. Class 18.

583,820. Dyes. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Apr. 18, 1952, Serial No. 628,269. Published Oct. 28, 1952. Class 6.

583,821. Asbestos Sheets for Electrical Insulation. Johns-Manville Corporation, New York, N. Y.
Filed Apr. 18, 1952, Serial No. 628,279. Published Sept. 22, 1953. Class 21.

583,822. Matrices. Master Matrix Service Company, Inc., New York, N. Y.
Filed Apr. 19, 1952, Serial No. 628,360. Published Sept. 22, 1953. Class 50.

583,823. Pedal Cycles and Motor Cycles and Parts of and Fittings Therefor. Dunelt Cycle Company Limited, Birmingham and Smethwick, Birmingham, England.
Filed Apr. 25, 1952, Serial No. 628,679. Published Sept. 29, 1953. Class 19.

583,824. Pedal Cycles and Motor Cycles and Parts of and Fittings Therefor. The Raynal Cycle Company Limited, Birmingham and Handsworth, Birmingham, England.
Filed Apr. 25, 1952, Serial No. 628,717. Published Sept. 29, 1953. Class 19.

583,825. Multi-Vitamin and Multi-Mineral Preparation. E. S. Miller Laboratories, Inc., Los Angeles, Calif.
Filed Apr. 30, 1952, Serial No. 628,953. Published Sept. 15, 1953. Class 18.

583,826. Paper Cartons for Packaging Frozen Foods. Marathon Corporation, Rothschild, Wis.
Filed May 12, 1952, Serial No. 629,577. Published Sept. 29, 1953. Class 2.

583,827. Germicide. Bell and Thorne, Inc., Newark, N. J.
Filed May 15, 1952, Serial No. 629,717. Published Sept. 8, 1953. Class 18.

583,828. Asbestos Sheets for Electrical Insulation. Johns-Manville Corporation, New York, N. Y.
Filed May 16, 1952, Serial No. 629,800. Published Sept. 22, 1953. Class 21.

583,829. Decorative Streamers Fabricated of Corrugated Aluminum Strips. Dazian's, Inc., New York, N. Y.
Filed May 28, 1952, Serial No. 630,392. Published Sept. 22, 1953. Class 50.

583,830. Books. Little, Brown and Company (Inc.), Boston, Mass.
Filed May 28, 1952, Serial No. 630,426. Published Sept. 29, 1953. Class 38.

583,831. Books. Little, Brown and Company (Inc.), Boston, Mass.
Filed May 28, 1952, Serial No. 630,429. Published Sept. 29, 1953. Class 38.

583,832. Pen Points and Writing Sets for Desk Use. Gregory Fount-O-Ink Company, Los Angeles, Calif.
Filed May 9, 1952, Serial No. 630,650. Published Sept. 29, 1953. Class 37.

583,833. Thread. J. & P. Coats, Inc., Wilmington, Del., now by merger Coats & Clark Inc.
Filed June 10, 1952, Serial No. 630,989. Published Sept. 29, 1953. Class 43.

583,834. Paint Enamels. Benjamin Moore & Co., New York, N. Y.
Filed June 10, 1952, Serial No. 631,015. Published Sept. 1, 1953. Class 16.

583,835. Electrical Directional Signals for Automotive Use. Arrow Safety Device Company, Mount Holly, N. J.
Filed June 12, 1952, Serial No. 631,089. Published Sept. 22, 1953. Class 21.

583,836. Ladies' and Girls' Pajamas, Pajama Coats, Beach Coats, Smock Coats, Utility Coats, and Bath Robes. Kaylon Incorporated, New York, N. Y.
Filed June 18, 1952, Serial No. 631,354. Published July 28, 1953. Class 39.

583,837. Storage Batteries. Hobbs Battery Company, Oakland, Calif.
Filed June 24, 1952, Serial No. 631,665. Published Sept. 22, 1953. Class 21.

583,838. Furniture, Specifically, Summer Furniture Consisting of Camp Stools, Wood and Canvas Back Rests for Beach Use, Combination Back Rests and Beach Pads, Luggage Stands, Yacht Chairs, Steamer Chairs, Lawn Tables, and Tray Stands. Henniker Crutch Co., Inc., Warner, N. H.
Filed June 27, 1952, Serial No. 631,864. Published Sept. 29, 1953. Class 32.

583,839. Trays Made of Solid-Bleached Paperboard. Marathon Corporation, Menasha, Wis.
Filed June 27, 1952, Serial No. 631,878. Published Sept. 29, 1953. Class 2.

583,840. Inflatable Mattresses, Cushions, and Pillows. New York Rubber Corporation, New York, N. Y.
Filed July 9, 1952, Serial No. 632,310. Published Sept. 29, 1953. Class 32.

583,841. Inflatable Mattresses, Cushions, and Pillows. New York Rubber Corporation, New York, N. Y.
Filed July 9, 1952, Serial No. 632,311. Published Sept. 29, 1953. Class 32.

583,842. Antiseptic, Hemostatic, and Styptic Ointment. Philip Fischer, doing business as Phil Fischer Company, Chicago, Ill.
Filed July 10, 1952, Serial No. 632,363. Published Sept. 15, 1953. Class 18.

583,843. Men's Caps. Memphis Cap Co., Inc., Memphis, Tenn.
Filed July 14, 1952, Serial No. 632,531. Published Sept. 1, 1953. Class 39.

583,844. Men's Hats. Memphis Cap Co., Inc., Memphis, Tenn.
Filed July 14, 1952, Serial No. 632,532. Published Sept. 1, 1953. Class 39.

583,845. Whiskey. James B. Beam Distilling Co., Chicago, Ill.
Filed July 16, 1952, Serial No. 632,587. Published Sept. 29, 1953. Class 49.

583,846. Storage Batteries. Gould-National Batteries, Inc., St. Paul, Minn.
Filed July 19, 1952, Serial No. 632,784. Published Sept. 29, 1953. Class 21.

583,847. Sport Shirts for Young Men and Boys. Summit Mills Corporation, New York, N. Y.
Filed July 21, 1952, Serial No. 632,857. Published Sept. 1, 1953. Class 39.

583,848. Beer. Los Angeles Brewing Company, Los Angeles, Calif., assignor to Pabst Brewing Company, a corporation of Delaware.
Filed July 31, 1952, Serial No. 633,311. Published Sept. 15, 1953. Class 48.

583,849. Food Supplements in Liquid and Powder Form, and Containing Vitamins, Enzymes, Minerals, and Amino Acids. Prop Products, Los Angeles, Calif.
Filed July 31, 1952, Serial No. 633,327. Published Sept. 15, 1953. Class 18.

583,850. Automobile Barrier, and More Particularly a Barrier Engageable With the Wheels of an Automobile for Retaining It in Position Even When on an Incline. Harris Barrier, Inc., Indianapolis, Ind.
Filed Aug. 9, 1952, Serial No. 633,670. Published Sept. 29, 1953. Class 19.

583,851. Refrigerators and Freezers. Leonards, Fort Worth, Tex.
Filed Aug. 12, 1952, Serial No. 633,775. Published Aug. 18, 1953. Class 31.

583,852. Smoking Stands. Smokador Manufacturing Co., Inc., Bloomfield, N. J.
Filed Aug. 12, 1952, Serial No. 633,792. Published Sept. 15, 1953. Class 32.

583,853. Lemonade Concentrate Consisting of a Concentrated Mixture of Lemon Juice, Natural Lemon Oil, and Sugar. Nedick's, Inc., New York, N. Y.
Filed Aug. 13, 1952, Serial No. 633,857. Published Sept. 15, 1953 Class 45.

583,854. Preparation for the Treatment of High Blood Pressure. Joseph Steele Johnson, doing business as Steele Formulae Company, Cleveland, Ohio.
Filed July 14, 1952, Serial No. 634,017. Published Sept. 15, 1953. Class 18.

583,855. Brassières, Foundation Garments, Girdles, and Garter Belts. Beautee-Fit Company, Los Angeles, Calif.
Filed Aug. 26, 1952, Serial No. 634,442. Published Sept. 22, 1953. Class 39.

583,856. Single Threads and Threads Woven Into Strands, of Natural and Synthetic Fibers, for Use in Producing Woven Fabrics. Societe Rhodiaceta, Paris, France.
Filed Aug. 13, 1952, Serial No. 634,510. Published Sept. 15, 1953. Class 43.

583,857. Beer. G. Heileman Brewing Co., La Crosse, Wis.
Filed Aug. 27, 1952, Serial No. 634,535. Published Sept. 29, 1953. Class 48.

583,858. Portable Collapsible Tent Adapted To Fit on the Roof of an Automobile. Herbert Schmiege, Saginaw, Mich.
Filed Sept. 10, 1952, Serial No. 635,101. Published Sept. 15, 1953. Class 50.

583,859. Caramel-Like Candy. Squirrel Brand Company, Cambridge, Mass.
Filed Sept. 18, 1952, Serial No. 635,440. Published Sept. 29, 1953. Class 46.

583,860. Women's Hats. Goldstein Millinery Company, Chicago, Ill.
Filed Sept. 19, 1952, Serial No. 635,472. Published Sept. 1, 1953. Class 39.

583,861. Diapers. J. P. Stevens & Co., Inc., New York, N. Y.
Filed Sept. 19, 1952, Serial No. 635,496. Published Sept. 1, 1953. Class 39.

583,862. Paperboard Shipping Cases and Folding Cartons. O. B. Andrews Company, Chattanooga, Tenn.
Filed Sept. 24, 1952, Serial No. 635,672. Published Sept. 29, 1953. Class 2.

583,863. Mechanical Pencils and Pencil-Leads. Hermann Kuhn, Zurich, Switzerland.
Filed Sept. 24, 1952, Serial No. 635,701. Published Sept. 29, 1953. Class 37.

583,864. Thread and Yarn. Beaunit Mills, Inc., New York, N. Y.
Filed Sept. 25, 1952, Serial No. 635,739. Published Sept. 22, 1953. Class 43.

583,865. Thread and Yarn. Beaunit Mills, Inc., New York, N. Y.
Filed Sept. 25, 1952, Serial No. 635,740. Published Sept. 22, 1953. Class 43.

583,866. Plastic Kitchen Appliances—Namely, Knife Rack, Sugar Bowl, Coffee Server, and Ice Bucket. Victory Plastics Co., Hudson, Mass.
Filed Sept. 25, 1952, Serial No. 635,797. Published Sept. 29, 1953. Class 2.

583,867. Threads and Yarns of Synthetic Fibres. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Sept. 26, 1952, Serial No. 635,824. Published Sept. 29, 1953. Class 43.

583,868. Pens and Pencils. British Pens Limited, Smethwick, Birmingham, England.
Filed Sept. 29, 1952, Serial No. 635,898. Published Sept. 29, 1953. Class 37.

583,869. Periodical. Colonel L. Brown, New York, N. Y.
Filed Oct. 1, 1952, Serial No. 635,993. Published Sept. 29, 1953. Class 38.

583,870. Pallet Boxes Having Supporting Legs Used in Material Handling Operations. Rack Engineering Company, Connellsville, Pa.
Filed Oct. 3, 1952, Serial No. 636,148. Published Sept. 15, 1953. Class 50.

583,871. Fried Chicken and Prepared Meals Consisting of Fried Chicken, Soup, Salad, Mashed Potatoes, Biscuits, and Dessert. Clarence A. Beatty, San Francisco, Calif.
Filed Oct. 7, 1952, Serial No. 636,269. Published Sept. 29, 1953. Class 46.

583,872. Traycloths, Trolley Cloths, Serviettes, Cosy Covers, Etc. T. F. Beckett & Company (Fairistytch) Limited, Glasgow and Ruchill, Glasgow, Scotland.
Filed Oct. 22, 1952, Serial No. 636,963. Published Sept. 29, 1953. Class 40.

583,873. Women's and Misses' Slips, Bloomers, Petticoats, Nightgowns, Pajamas, Chemises, Step-ins, Panties, and Stockings. Seamprufe Incorporated, New York, N. Y.
Filed Oct. 25, 1952, Serial No. 637,194. Published Sept. 22, 1953. Class 39.

583,874. Letters, Symbols, Marks, Insignia, and Similar Matter Capable of Conveying Intelligence, Etc. Trans-Art Incorporated, New York, N. Y., and Chicago, Ill.
Filed Oct. 25, 1952, Serial No. 637,198. Published Sept. 29, 1953. Class 38.

583,875. Electrical Insulation Material Consisting of Film Bonded to Asbestos Paper. Irvington Varnish & Insulator Company, Irvington, N. J., assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn., a corporation of Delaware.
Filed Oct. 30, 1952, Serial No. 637,380. Published Sept. 15, 1953. Class 21.

583,876. Moisture Resistant Paperboard Boxes and Covers Therefor. Container Corporation of America, Chicago, Ill.
Filed Oct. 31, 1952, Serial No. 637,427. Published Sept. 29, 1953. Class 2.

583,877. Hair-Pressing Oil. Lena Teverbaugh Ayers Preston, doing business as The Teverbaugh Manufacturing Company, Chicago, Ill.
Filed Oct. 31, 1952, Serial No. 637,462. Published Sept. 29, 1953. Class 51.

583,878. Airplanes and Parts Thereof. United Aircraft Corporation, East Hartford, Conn., and Dallas, Tex.
Filed Oct. 11, 1952, Serial No. 637,516. Published Sept. 29, 1953. Class 19.

583,879. Antibiotic Preparation. Mathieson Chemical Corporation, Saltville, Va.
Filed Nov. 6, 1952, Serial No. 637,715. Published Sept. 8, 1953. Class 18.

583,880. Men's and Boys' Hats and Caps, Dress Shirts, Outer and Under Shirts, Etc. Adam Hat Stores, Inc., New York, N. Y.
Filed Nov. 15, 1952, Serial No. 638,127. Published Sept. 1, 1953. Class 39.

583,881. Yarns, Threads, and Yarn and Thread Filaments. The Chemstrand Corporation, Decatur, Ala.
Filed Nov. 15, 1952, Serial No. 638,134. Published Sept. 15, 1953. Class 43.

583,882. Carbonaceous Powder Used To Assist In Filtering Through a Felted, Woven or Rigid, Porous Filter Medium. Anthracite Equipment Corporation, Wilkes-Barre, Pa.
Filed Nov. 25, 1952, Serial No. 638,564. Published Aug. 18, 1953. Class 31.

583,883. Pillows, Cushions, Throw Pillows, and Foam Rubber Mattress Topper Pads. New York Feather Co., Inc., New York and Brooklyn, N. Y.
Filed Nov. 25, 1952, Serial No. 638,602. Published Sept. 15, 1953. Class 32.

583,884. Appetite Salient Compositions in Tablet, Wafer, Chewing Gum, Liquid, and Powder Form. Edgar A. Ferguson, Jr., Brooklyn, N. Y.
Filed Dec. 1, 1952, Serial No. 638,795. Published Sept. 8, 1953. Class 18.

583,885. Portable Ice Chests. Louisville Tin and Stove Company, Louisville, Ky.
Filed Dec. 1, 1952, Serial No. 638,802. Published Sept 1, 1953. Class 31.

583,886. Partially Printed Medical Summary Forms To Be Carried on the Person for the Protection of Individuals Requiring Special Medical Care. Vincent A. Stace, Dearborn, Mich.
Filed Dec. 1, 1952, Serial No. 638,818. Published Sept 22, 1953. Class 37.

583,887. Non-Alcoholic Maltless Soft Drinks and Carbonated Waters. Rotella Beverages, Inc., Newark, N. J., assignor to Slim-Line, Inc., Newark, N. J., a corporation of New Jersey.
Filed Dec. 6, 1952, Serial No. 639,144. Published Sept. 15, 1953. Class 45.

583,888. True Story Magazine. Good Publishing Company, Fort Worth, Tex.
Filed Dec. 8, 1952, Serial No. 639,166. Published Sept. 29, 1953. Class 38.

583,889. Coffee, Tea, and Rice. S. A. Schonbrunn & Co., Inc., New York, N. Y.
Filed Dec. 11, 1952, Serial No. 639,342. Published Sept. 1, 1953. Class 46.

583,890. Lozenge or Troche, Particularly an Antibiotic Containing Lozenge or Troche for Use in Antibacterial Therapy. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Dec. 17, 1952, Serial No. 639,664. Published Sept. 8, 1953. Class 18.

583,891. High Viscosity Coating Compound of Pigment and Vehicle for Use in the Graphic Arts Process Called Silk Screening. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Dec. 18, 1952, Serial No. 639,700. Published Sept. 15, 1953. Class 16.

583,892. Macaroni. Ronzoni Macaroni Co., Inc., Long Island City, N. Y.
Filed Dec. 19, 1952, Serial No. 639,780. Published Sept. 29, 1953. Class 46.

583,893. Printed Labels. Contact Products, Inc., doing business as Archer Label Company, Pasadena, Calif
Filed Dec. 27, 1952, Serial No. 640,067. Published Sept 29, 1953. Class 38.

583,894. Whisky. Robertson and Baxter, Limited, Glasgow, Scotland.
Filed Dec. 29, 1952, Serial No. 640,130. Published Sept. 15, 1953. Class 49.

583,895. Television Antennae. True Tronics, Inc., Chicago, Ill.
Filed Dec. 30, 1952, Serial No. 640,175. Published Sept. 15, 1953. Class 21.

583,896. Personal Deodorant. Carter Products, Inc., New York, N. Y.
Filed Dec. 31, 1952, Serial No. 640,192. Published Sept. 29, 1953. Class 51.

583,897. Food Storage Freezers. Thor Corporation, Chicago, Ill.
Filed Dec. 31, 1952, Serial No. 640,243 Published Sept. 1, 1953. Class 31.

583,898. Ready-Mixed Paints, Varnishes, Paint Enamels, Japans, Stains, Paint Oils; Turpentine and Linseed Oil Substitutes for Use in Paint, Varnish, Enamel, and Similar Type Coating Compositions. Inter-Coastal Paint Corporation, East St. Louis, Ill.
Filed Jan. 2, 1953, Serial No. 640,279. Published Sept 8, 1953. Class 16.

583,899. Medicinal Preparation for the Treatment of Allergic Disorders. The Upjohn Company, Kalamazoo, Mich.
Filed Jan. 7, 1953, Serial No. 640,480. Published Sept 8, 1953. Class 18.

583,900. Medicinal Preparation for the Treatment of Vitamin and Nutritional Deficiencies. The Upjohn Company, Kalamazoo, Mich.
Filed Jan. 7, 1953, Serial No. 640,484. Published Sept 8, 1953. Class 18.

583,901. Absorbable Hemostatic Gelatin Sponge. Italian Drugs Importing Co. Inc., New York, N. Y., assignor to Delmond Pharmaceutical Corp., New York, N. Y.
Filed Jan. 8, 1953, Serial No. 640,517. Published Sept. 15, 1953. Class 18.

583,902. Medicinal Preparations—Humans, Etc. Sutliff & Case Co., Inc., Peoria, Ill.
Filed Jan. 8, 1953, Serial No. 640,535. Published Sept. 15, 1953. Class 18.

583,903. Bakers' Confections—Namely, Cookies and Fruit Bars. Zion Industries, Inc., doing business as Zion Countryside Bakers, Zion, Ill.
Filed Jan. 15, 1953, Serial No. 640,829. Published Sept. 1, 1953. Class 46.

583,904. Artificial Fishing Lures. Kalvig & Co. Inc., Hackensack, Minn.
Filed Jan. 16, 1953, Serial No. 640,860. Published Sept. 1, 1953. Class 22.

583,905. Medicated Rub. The Denver Chemical Manufacturing Company, New York, N. Y.
Filed Jan. 19, 1953, Serial No. 640,919. Published Sept. 15, 1953. Class 18.

583,906. Dried Fruits and Evaporated Fruits. Edwards-Freeman, Inc., Philadelphia, Pa.
Filed Jan. 19, 1953, Serial No. 640,925. Published Sept. 8, 1953. Class 46.

583,907. Preparation for Internal Administration Used as an Aid in X-Ray Diagnosis. The Harrower Laboratory, Inc., Jersey City, N. J.
Filed Jan. 21, 1953, Serial No. 641,050. Published Sept. 15, 1953. Class 18.

583,908. Decoy Setter. Dal Blake, doing business as Gregg Tool Company, Gladewater, Tex.
Filed Jan. 22, 1953, Serial No. 641,121. Published Sept. 1, 1953. Class 22.

583,909. Stencil Ink, Fountain Marker Ink, Ink Stamp Pads, Stamp Pad Ink, Fountain Brush Ink. Frederic P. Thompson, doing business as The Shippers Supply Co. of N. E., Watertown, Mass.
Filed Jan. 22, 1953, Serial No. 641,158 Published Sept. 1, 1953. Class 11.

583,910. Handbags. Dorian Handbags, New York, N. Y.
Filed Jan. 23, 1953, Serial No. 641,178. Published Sept. 29, 1953. Class 3.

583,911. Condensing Units and Compressors for Refrigerators. Marco Refrigerators Limited, London, England.
Filed Jan. 23, 1953, Serial No. 641,194. Published Sept. 15, 1953. Class 31.

583,912. Sun Hat. Raymond C. Schneider, Manhattan, Kans.
Filed Jan. 26, 1953, Serial No. 641,331. Published Sept. 1, 1953. Class 39.

583,913. Mattresses and Box Springs. Sealy, Incorporated, Chicago, Ill.
Filed Jan. 26, 1953, Serial No. 641,334. Published Sept. 15, 1953. Class 32.

583,914. Mattresses and Box Springs. Sealy, Incorporated, Chicago, Ill.
Filed Jan. 26, 1953, Serial No. 641,335. Published Sept. 15, 1953. Class 32.

583,915. Leisure Wear for Men, Women, and Children—Namely, Jackets, Trousers, Slacks, Etc. Frederick H. Helder, doing business as Fred Helder, New York, N. Y.
Filed Jan. 27, 1953, Serial No. 641,377. Published Sept 1, 1953. Class 39.

583,916. Woven Fabrics for Industrial and Technical Use—Namely, Fabric for Dry-Sifting and Separating, Filtering, Straining, and Process Printing. Tobler, Ernst & Traber, Inc., New York, N. Y.
Filed Jan. 28, 1953, Serial No. 641,479. Published Sept. 29, 1953. Class 42.

583,917. Woven Fabrics for Industrial and Technical Use—Namely, Fabric for Dry-Sifting and Separating, Filtering, Straining, and Process Printing. Tobler, Ernst & Traber, Inc., New York, N. Y.
Filed Jan. 28, 1953, Serial No. 641,480. Published Sept. 29, 1953. Class 42.

583,918. Woven Fabrics for Industrial and Technical Use—Namely, Fabric for Dry-Sifting and Separating, Filtering, Straining, and Process Printing. Tobler, Ernst & Traber, Inc., New York, N. Y.
Filed Jan. 28, 1953, Serial No. 641,481. Published Sept. 29, 1953. Class 42.

583,919. Cabinets for Dispensing Cloth or Paper Towels. American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill.
Filed Jan. 29, 1953, Serial No. 641,488. Published Sept. 29, 1953. Class 2.

583,920. Hardboard, Insulation Board, and Acoustical Tile. Simpson Logging Company, Seattle, Wash.
Filed Jan. 29, 1953, Serial No. 641,524. Published Sept. 29, 1953. Class 12.

583,921. Beer and Ale. G. Krueger Brewing Company, Newark, N. J.
Filed Feb. 2, 1953, Serial No. 641,621. Published Sept. 15, 1953. Class 48.

583,922. Wines. National Distillers Products Corporation, New York, N. Y.
Filed Feb. 2, 1953, Serial No. 641,630. Published Sept. 15, 1953. Class 47.

583,923. Whiskey, Gin, and Brandy. National Distillers Products Corporation, New York, N. Y.
Filed Feb. 2, 1953, Serial No. 641,631. Published Sept. 15, 1953. Class 49.

583,924. Liniment Used for the Relief of Rheumatism, Arthritis, Neuritis, Sore Muscles, and Sprains. James F. Stillwell, doing business under the style and title of J. F. S. Company, Omaha, Nebr.
Filed Feb. 2, 1953, Serial No. 641,645. Published Sept. 15, 1953. Class 18.

583,925. Product for the Relief of Menstrual Pain. Chichester Chemical Co., Philadelphia, Pa.
Filed Jan. 15, 1953, Serial No. 641,657. Published Sept. 15, 1953. Class 18.

583,926. Canned Tuna Fish. South Pacific Canning Company, Long Beach, Calif.
Filed Feb. 3, 1953, Serial No. 641,697. Published Aug. 11, 1953. Class 46.

583,927. Magazine of Articles and Photographs by, of, and for Colored People. Good Publishing Company, Fort Worth, Tex.
Filed Feb. 4, 1953, Serial No. 641,722. Published Sept. 1, 1953. Class 38.

583,928. Boys' Outer Shirts. Lucy W. Dunlap, Belton, Mo.
Filed Feb. 5, 1953, Serial No. 641,768. Published Sept. 1, 1953. Class 39.

583,929. Beer. The Stroh Brewery Company, Detroit, Mich.
Filed Feb. 6, 1953, Serial No. 641,871. Published Sept. 29, 1953. Class 48.

583,930. Preparation Comprising in Combination a Mixture of Estrogenic and Androgenic Hormones With Multivitamins for Oral and Parenteral Administration for Prophylaxis and Treatment of Conditions Associated With Vitamin and Male and Female Hormone Deficiencies. Casimir Funk Laboratories, Inc., New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,907. Published Aug. 11, 1953. Class 18.

583,931. Greeting Cards. Elm City Photo Co., doing business as Chris-Cards, New Haven, Conn.
Filed Feb. 10, 1953, Serial No. 642,024. Published Sept. 29, 1953. Class 38.

583,932. Beach and Garden Umbrellas. Sun Outdoor Products Company, Incorporated, Little Ferry, N. J.
Filed Feb. 12, 1953, Serial No. 642,178. Published Sept. 15, 1953. Class 32.

583,933. Beach and Garden Umbrellas. Sun Outdoor Products Company, Incorporated, Little Ferry, N. J.
Filed Feb. 12, 1953, Serial No. 642,179. Published Sept. 15, 1953. Class 32.

583,934. Paper Towels. American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill.
Filed Feb. 17, 1953, Serial No. 642,337. Published Sept. 29, 1953. Class 37.

583,935. Apple Brandy. Laird & Company, doing business as Diamond State Distilling Company, Scobeyville, N. J.
Filed Feb. 18, 1953, Serial No. 642,411. Published Sept. 15, 1953. Class 49.

583,936. Apple Cider. E. J. Neville, doing business as Mountain City Packing Company, Cairo, Ill.
Filed Feb. 18, 1953, Serial No. 642,452. Published Sept 29, 1953. Class 45.

583,937. Show and Display Cases Having Movable Merchandise-Supporting Shelves. The Columbus Show Case Company, Columbus, Ohio.
Filed Feb. 19, 1953, Serial No. 642,462. Published Sept. 15, 1953. Class 32.

583,938. Ale. The Buckeye Brewing Co., Toledo, Ohio.
Filed Feb. 20, 1953, Serial No. 642,522. Published Sept. 15, 1953. Class 48.

583,939. Men's Socks. Tennessee Hosiery Mills Co., Niota, Tenn.
Filed Feb. 24, 1953, Serial No. 642,710. Published Aug. 25, 1953. Class 39.

583,940. Cedar Wardrobes, Cedar Chifferobes, Cedar Closets, Cedar Chests, and Tables. The Lane Company, Inc., Altavista, Va.
Filed Feb. 26, 1953, Serial No. 642,822. Published Sept. 15, 1953. Class 32.

583,941. Wines. California Cellars, doing business as Napa & Sonoma Wine Co., Sonoma and San Francisco, Calif.
Filed Mar. 2, 1953, Serial No. 642,942. Published Sept. 15, 1953. Class 47.

583,942. Medicinal Preparation of Erythromycin, an Antibiotic Used in the Treatment of Bacterial Infections. Eli Lilly and Company, Indianapolis, Ind.
Filed Mar. 2, 1953, Serial No. 642,957. Published Sept. 8, 1953. Class 18.

583,943. Medicinal Preparation of Erythromycin, an Antibiotic Used in the Treatment of Bacterial Infections. Eli Lilly and Company, Indianapolis, Ind.
Filed Mar. 2, 1953, Serial No. 642,958. Published Sept. 8, 1953. Class 18.

583,944. Truck Trailers. Highway Trailer Company, Edgerton, Wis.
Filed Mar. 2, 1953, Serial No. 642,970. Published Sept. 29, 1953. Class 19.

583,945. Truck Trailers. Highway Trailer Company, Edgerton, Wis.
Filed Mar. 2, 1953, Serial No. 642,971. Published Sept. 29, 1953. Class 19.

583,946. Men's Suits, Trousers, Topcoats, Tuxedos, and Sport Coats. Wright-Johnston Inc., Columbia, S. C.
Filed Mar. 2, 1953, Serial No. 643,015. Published Sept. 1, 1953. Class 39.

583,947. Organic Laxative. Edwin E. Kayser, doing business as Kayco, Santa Barbara, Calif.
Filed Mar. 4, 1953, Serial No. 643,103. Published Sept. 8, 1953. Class 18.

583,948. Vitamin Pills. Southern Chemical Foundation, Inc., Dallas, Tex.
Filed Mar. 4, 1953, Serial No. 643,122. Published Sept. 8, 1953. Class 18.

583,949. Fabrics Adapted for Use in Making Patterns for Garments or Other Fabric Articles. Gladys Radford Williams, New York, N. Y.
Filed Mar. 4, 1953, Serial No. 643,131. Published Sept. 29, 1953. Class 42.

583,950. Refrigerated Beverage Dispensers. The Steel City Manufacturing Co., Youngstown, Ohio.
Filed Mar. 6, 1953, Serial No. 643,246. Published Aug. 25, 1953. Class 31.

583,951. Baler Twine and Binder Twine. Maynard Tritsch, doing business as Midcontinent Twine Company, Plattsmouth, Nebr.
Filed Mar. 9, 1953, Serial No. 643,384. Published Sept. 1, 1953. Class 7.

583,952. Electric Ranges and Electric Dish Washers. Spiegel, Inc., Chicago, Ill.
Filed Mar. 12, 1953, Serial No. 643,561. Published Sept. 15, 1953. Class 21.

583,953. Base Holders Made of Plastic for Paper Cups. Conklin Products Corporation, Los Angeles, Calif.
Filed Mar. 16, 1953, Serial No. 643,655. Published Sept. 29, 1953. Class 2.

583,954. Hat Bodies. Pollak Industrial Corp., Stratford, Conn., and New York, N. Y.
Filed Mar. 16, 1953, Serial No. 643,710. Published Sept. 1, 1953. Class 39.

583,955. Cordage. John H. Graham & Co. Inc., New York, N. Y.
Filed Mar. 17, 1953, Serial No. 643,761. Published Sept. 1, 1953. Class 7.

583,956. Office Filing Cabinets. U. S. Stationery Co., New York, N. Y.
Filed Mar. 18, 1953, Serial No. 643,867. Published Sept. 8, 1953. Class 32.

583,957. Airplanes and Structural Parts Thereof. The De Havilland Aircraft Company Limited, Hatfield, England.
Priority under Sec. 44(d). British Registration No. B712,778, filed Dec. 1, 1952.
Filed Mar. 23, 1953, Serial No. 644,016. Published Sept. 8, 1953. Class 19.

583,958. Airplanes and Structural Parts Thereof. The De Havilland Aircraft Company Limited, Hatfield, England.
Filed Mar. 23, 1953, Serial No. 644,017. Published Sept. 8, 1953. Class 19.

583,959. Periodical Published Bi-Monthly. Drake Merchandising Company, Chicago, Ill.
Filed Mar. 23, 1953, Serial No. 644,020. Published Sept. 29, 1953. Class 38.

583,960. Folding Aluminum Tables. Emeco Corporation, Hanover, Pa.
Filed Mar. 25, 1953, Serial No. 644,164. Published Sept. 29, 1953. Class 32.

583,961. Hampers. Gleitsman's, Inc., Long Island City, N. Y.
Filed Mar. 25, 1953, Serial No. 644,171. Published Sept. 29, 1953. Class 2.

583,962. Paints. Michael-Lawrence Company, Inc., Inglewood, Calif.
Filed Mar. 25, 1953, Serial No. 644,182. Published Sept. 22, 1953. Class 16.

583,963. Paper Doilies and Place Mats. Milwaukee Lace Paper Company, Milwaukee, Wis.
Filed Mar. 26, 1953, Serial No. 644,242. Published Sept. 29, 1953. Class 37.

583,964. Publication Issued Periodically. World Wool Guide Incorporated, Philadelphia, Pa.
Filed Mar. 27, 1953, Serial No. 644,366. Published Sept. 29, 1953. Class 38.

583,965. Periodical Magazine. Lifetime Living, Inc., New York, N. Y.
Filed Mar. 30, 1953, Serial No. 644,424. Published Sept. 29, 1953. Class 38.

583,966. Lady's Unfilled Compact. Majestic Metal Specialties, Inc., Moosup, Conn.
Filed Mar. 30, 1953, Serial No. 644,427. Published Sept. 29, 1953. Class 2.

583,967. Rifles and Parts Thereof. The Marlin Firearms Company, New Haven, Conn.
Filed Mar. 30, 1953, Serial No. 644,429. Published Sept. 29, 1953. Class 9.

583,968. Musical Doll Carriages. South Bend Toy Mfg. Co., South Bend, Ind.
Filed Mar. 30, 1953, Serial No. 644,460. Published Sept. 1, 1953. Class 22.

583,969. Coated Paper. Zellerbach Paper Company, San Francisco, Calif.
Filed Mar. 30, 1953, Serial No. 644,484. Published Sept. 29, 1953. Class 37.

583,970. Paper Cleansing Tissue and Toilet Tissue, Paper Napkins and Towels. The Kroger Co., Cincinnati, Ohio.
Filed Apr. 2, 1953, Serial No. 644,619. Published Sept. 29, 1953. Class 37.

583,971. Fresh Citrus Fruits. Saticoy Lemon Association, Saticoy, Calif.
Filed Apr. 6, 1953, Serial No. 644,792. Published Sept. 1, 1953. Class 46.

583,972. Magazines. Lawrence B. Gracey, Newport Beach, Calif.
Filed Apr. 7, 1953, Serial No. 644,840. Published Sept. 29, 1953. Class 38.

583,973. Insulators Made of Ceramics, Glass, and Plastics and Having Thereon a Thin Coating of an Electrically Conductive Material Such as a Conductive Plastic, Metal, Graphite and the Like, Which May or May Not Be Transparent. Myron A. Coler, doing business as The Markite Company, New York, N. Y.
Filed Apr. 8, 1953, Serial No. 644,898. Published Sept. 22, 1953. Class 21.

583,974. Blankets Made Wholly of Cotton, of Cotton and Rayon, or of Cotton, Rayon, and Wool. Beacon Manufacturing Company, Swannanoa, N. C.
Filed Apr. 9, 1953, Serial No. 644,957. Published Sept. 22, 1953. Class 42.

583,975. Hockey Sticks, Skis, Toboggans, and Snow Shoes. Northland Ski Manufacturing Company, North St. Paul, Minn.
Filed Apr. 10, 1953, Serial No. 645,054. Published Sept. 1, 1953. Class 22.

583,976. Playing Card Game. Angus MacPhee, Vancouver, British Columbia, Canada.
Filed Apr. 15, 1953, Serial No. 645,329. Published Sept. 29, 1953. Class 22.

583,977. Magazine Section. Farm Journal, Inc., Philadelphia, Pa.
Filed Apr. 16, 1953, Serial No. 645,405. Published Sept. 29, 1953. Class 38.

583,978. House Magazine Published Bimonthly. Albert Frank-Guenther Law Inc., New York, N. Y.
Filed Apr. 16, 1953, Serial No. 645,411. Published Sept. 29, 1953. Class 38.

583,979. Columns and Articles in Newspapers, Magazines, and Pamphlets. Brooks Taylor, Chicago, Ill.
Filed Apr. 16, 1953, Serial No. 645,440. Published Sept. 29, 1953. Class 38.

583,980. Fertilizer. Monsanto Chemical Company, St. Louis, Mo.
Filed Apr. 17, 1953, Serial No. 645,501. Published Sept. 29, 1953. Class 10.

583,981. Fertilizer. Monsanto Chemical Company, St. Louis, Mo.
Filed Apr. 17, 1953, Serial No. 645,505. Published Sept. 29, 1953. Class 10.

583,982. Title for a Newspaper Column. Tribune Company, Chicago, Ill.
Filed Apr. 17, 1953, Serial No. 645,517. Published Sept. 29, 1953. Class 38.

583,983. Column in a Periodical Trade Publication. Hall Publishing Company, New York, N. Y.
Filed Apr. 20, 1953, Serial No. 645,567. Published Sept. 29, 1953. Class 38.

583,984. Safety Belts for Children for Use in Automobiles. Richard G. Ostrander, Yonkers, N. Y.
Filed Apr. 21, 1953, Serial No. 645,661. Published Sept. 29, 1953. Class 40.

583,985. Piece Goods of Cotton, Wool, Silk, Synthetic Fibers, and Combinations Thereof. United Merchants and Manufacturers, Inc., New York, N. Y.
Filed Apr. 21, 1953, Serial No. 645,682. Published Sept. 22, 1953. Class 42.

583,986. Ladies' and Misses' Dresses. Beaumart Co., New York, N. Y.
Filed Apr. 22, 1953, Serial No. 645,690. Published Sept. 15, 1953. Class 39.

583,987. Magazines Appearing From Time to Time. Simplicity Pattern Co., Inc., New York, N. Y.
Filed Apr. 22, 1953, Serial No. 645,736. Published Sept. 29, 1953. Class 38.

583,988. Magazine Published Monthly. Dell Publishing Company, Inc., New York, N. Y.
Filed Apr. 23, 1953, Serial No. 645,782. Published Sept. 29, 1953. Class 38.

583,989. Cotton Fabrics in the Piece. D. B. Fuller & Co., Inc., New York, N. Y.
Original filed, act of 1946, Supplemental Register, Apr. 23, 1953; amended to application, Principal Register, July 15, 1953, Serial No. 645,796. Published Sept. 22, 1953. Class 42.

583,990. Bandeaux and Hair Nets. Jet Knitting Mills, Inc., Brooklyn, N. Y.
Filed Apr. 23, 1953, Serial No. 645,805. Published Sept. 15, 1953. Class 39.

583,991. Woolen Fabrics in the Piece. Leeds Associates Inc., New York, N. Y.
Filed Apr. 24, 1953, Serial No. 645,903. Published Sept. 29, 1953. Class 42.

583,992. Woolen Fabrics in the Piece. Leeds Associates Inc., New York, N. Y.
Filed Apr. 24, 1953, Serial No. 645,904. Published Sept. 29, 1953. Class 42.

583,993. Electric Lamps. Lampes et Entreprises Électriques, Ninove, Belgium.
Filed Apr. 27, 1953, Serial No. 645,993. Published Sept. 22, 1953. Class 21.

583,994. Car Bodies, Motor Cars, Motor Cycles, Bicycles, Motor Trucks. Alfa Romeo Società per Azioni, Milan, Italy.
Priority under Sec. 44(d). Italian Registration No. 111,220, filed Dec. 13, 1952.
Filed Apr. 29, 1953, Serial No. 646,099. Published Sept. 29, 1953. Class 19.

583,995. Car Bodies, Motor Cars, Motor Cycles, Bicycles, Motor Trucks. Alfa Romeo Società per Azioni, Milan, Italy.
Priority under Sec. 44(d). Italian Registration No. 111,210, filed Dec. 13, 1952.
Filed Apr. 29, 1953, Serial No. 646,100. Published Sept. 29, 1953. Class 19.

583,996. Magazine Published Quarterly. Armstrong Cork Company, Lancaster, Pa.
Filed Apr. 29, 1953, Serial No. 646,104. Published Sept. 29, 1953. Class 38.

583,997. Plastic Webbing, Woven from Saran Monofilament, Being a Narrow Width Tape Used in the Upholstery of Modern and Outdoor Furniture. Plastic Woven Products, Inc., Paterson, N. J.
Filed Apr. 29, 1953, Serial No. 646,164. Published Sept. 29, 1953. Class 42.

583,998. Cotton Rugs and Carpeting. Eugene T. Barwick, doing business as E. T. Barwick Mills, Chamblee, Ga.
Filed May 4, 1953, Serial No. 646,353. Published Sept. 22, 1953. Class 42.

583,999. Piece Goods of Cotton, Rayon, and Mohair and Combinations Thereof, Sold in Bolt. Goodall-Sanford, Inc., Sanford, Maine.
Filed May 4, 1953, Serial No. 646,380. Published Sept. 22, 1953. Class 42.

584,000. Piece Goods of Pure Wool or Blended Wool and Mohair or Alpaca, Sold in Bolt. Goodall-Sanford, Inc., Sanford, Maine.
Filed May 4, 1953, Serial No. 646,381. Published Sept. 22, 1953. Class 42.

584,001. Piece Goods of Pure Wool or Blended Wool and Mohair or Alpaca. Sold in Bolt. Goodall-Sanford, Inc., Sanford, Maine.
Filed May 4, 1953, Serial No. 646,382. Published Sept. 22, 1953. Class 42.

584,002. Piece Goods of 100% Wool Pile With a Cotton Back, Sold in Bolt. Goodall-Sanford, Inc., Sanford, Maine.
Filed May 4, 1953, Serial No. 646,386. Published Sept. 22, 1953. Class 42.

584,003. Piece Goods of Pure Wool or Blended Wool and Mohair or Alpaca, Sold in Bolt. Goodall-Sanford, Inc., Sanford, Maine.
Filed May 4, 1953, Serial No. 646,387. Published Sept. 22, 1953. Class 42.

584,004. Suiting Fabrics of Worsted and Synthetic Fibres in the Piece. Samuel Hird & Sons, Inc., Garfield, N. J., and New York, N. Y.
Filed May 4, 1953, Serial No. 646,393. Published Sept. 22, 1953. Class 42.

584,005. Spring-Propelled Mechanical Toy Race Cars and Fire Engines. R. J. Pagliuso, doing business as Pagliuso Engineering Company, Glendale, Calif.
Filed May 4, 1953, Serial No. 646,422. Published Sept. 1, 1953. Class 22.

584,006. Fabrics in the Piece of Synthetic Fibers. Burlington Mills Corporation, Greensboro, N. C.
Filed May 6, 1953, Serial No. 646,518. Published Sept. 29, 1953. Class 42.

584,007. Wool and Worsted Piece Goods. Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y.
Filed May 6, 1953, Serial No. 646,559. Published Sept. 29, 1953. Class 42.

584,008. Ceramic Capacitors. Speer Carbon Company, St. Marys, Pa.
Filed May 6, 1953, Serial No. 646,579. Published Sept. 22, 1953. Class 21.

584,009. Rebuilt Television Picture Tubes. Greater Pittsburgh T.-V. Company, Inc., Pittsburgh, Pa.
Filed May 7, 1953, Serial No. 646,612. Published Sept. 22, 1953. Class 21.

584,010. Smoked Ham, Bacon, Frankfurts, Polish Sausage, Head Cheese, and Smoked Liver Sausage. Swift & Company, doing business as H. L. Handy Company, Chicago, Ill., and Springfield, Mass.
Filed May 18, 1953, Serial No. 647,242. Published Sept. 29, 1953. Class 46.

584,011. Powder Puffs. Abraham Dell, Los Angeles, Calif.
Filed July 6, 1953, Serial No. 649,872. Published Sept. 29, 1953. Class 29.

Service Marks

584,012. Entertainment Through the Media of an Integrated Series of Dramatic Radio and Television Programs Broadcast from Time to Time. Phillips H. Lord, Inc., New York, N. Y.
Filed Dec. 27, 1950, Serial No. 608,118. Published Sept. 29, 1953. Class 107.

584,013. Constructing, Altering and Repairing Oil and Chemical Processing Plants. Procon Incorporated, Chicago, Ill.
Filed Sept. 3, 1952, Serial No. 634,803. Published Sept. 29, 1953. Class 103.

584,014. Radio Program Broadcasting Service. Radiohio, Incorporated, Columbus, Ohio.
Filed Sept. 4, 1952, Serial No. 634,859. Published Sept. 29, 1953. Class 104.

584,015. Well Treating Services—Namely, Hydraulic Fracturing of Underground Earth Formations and Propping Open the Resulting Fractures. Dowell Incorporated, Tulsa, Okla.
Filed Nov. 26, 1952, Serial No. 638,639. Published Sept. 29, 1953. Class 103.

584,016. Services Relating to the Improvement of Mental Health—Namely, Stimulating and Promoting Interest in Mental Health Problems and Disseminating Information Relative to Mental Health. The National Association for Mental Health, Inc., New York, N. Y.
Filed Jan. 5, 1953, Serial No. 640,352. Published Sept. 29, 1953. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

584,017. (Class 26. Measuring and Scientific Appliances.) Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Original filed, act of 1946, Principal Register, Oct. 13, 1951; amended to application, Supplemental Register, Apr. 8, 1953, Serial No. 619,967.

Copyrapid

For Sensitized Photographic Papers.
Claims use since September 1949 in Germany and since October 1950 in commerce between foreign nations and the United States.

584,018. (Class 22. Games, Toys, and Sporting Goods.) Town-Line Mfg. Co., Inc., Richmond Hill, N. Y. Original filed, act of 1946, Principal Register, Jan. 2, 1952; amended to application, Supplemental Register, Sept. 25, 1953, Serial No. 623,093.

"JINGLE BOOT"

For Christmas Stockings Which Serve as Containers for Christmas Gifts and Are Intended To Be Hung Over a Fireplace.
Claims use since June 18, 1951.

584,019. (Class 28. Jewelry and Precious-Metal Ware.) Flint Company, Kansas City, Mo. Original filed, act of 1946, Principal Register, May 2, 1952; amended to application, Supplemental Register, Sept. 30, 1953, Serial No. 629,100.



For Articles of Jewelry Each Comprising a Pendant Including a Transparent Case Containing a Mustard Seed, the Jewelry Being of a Religious Symbolic Character.
Claims use since Nov. 28, 1951.

584,020. (Class 28. Jewelry and Precious-Metal Ware.) Flint Company, Kansas City, Mo. Original filed, act of 1946, Principal Register, May 2, 1952; amended to application, Supplemental Register, Sept. 30, 1953, Serial No. 629,101.



For Articles of Jewelry Each Comprising a Pendant Including a Transparent Case Containing a Mustard Seed, the Jewelry Being of a Religious Symbolic Character.
Claims use since Nov. 28, 1951.

584,021. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Stephen M. Mattich, doing business as Mattich Airdraulic Mfg. Co., Maywood, Ill. Original filed, act of 1946, Principal Register, May 8, 1952; amended to application, Supplemental Register, Feb. 24, 1953, Serial No. 629,376.



The representation of the goods is disclaimed.
For Pressure Operated Water Hammers—Namely, Tools for Use in Cleaning, Plumbing Systems, Sewers, Lavatories, and the Like, and Parts Thereof.
Claims use since April 1939.

584,022. (Class 46. Foods and Ingredients of Foods.) Lewis-Hurwood & Co. Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 16, 1952; amended to application, Supplemental Register, Mar. 23, 1953, Serial No. 631,242.

KREAM-STA

For Food Product, Containing Carrageenin and Dextrose, Used as a Stabilizer and Emulsifier in Certain Dairy Products—Namely, Buttermilk, Sour Cream, Milk, Cream, Cheese, Butter, and Ice Cream.
Claims use since May 1, 1951.

584,023. (Class 22. Games, Toys, and Sporting Goods.) Modglin Company, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Aug. 23, 1952; amended to application, Supplemental Register, Aug. 10, 1953, Serial No. 634,380.

TOTMOP

For Toy Mops.
Claims use since July 9, 1952.

584,024. (Class 22. Games, Toys, and Sporting Goods.) MacGregor Sport Products, Inc., Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Oct. 9, 1952; amended to application, Supplemental Register, Oct. 15, 1953, Serial No. 636,426.

BUGGY-BAG

For Golf Bags.
Claims use since Oct. 2, 1952.

584,025. (Class 21. Electrical Apparatus, Machines and supplies.) L. Ray Hove, doing business under the name and style, Du-L-Spark Co., Minneapolis, Minn. Original filed, act of 1946, Principal Register, Dec. 20, 1952; amended to application, Supplemental Register, Oct. 5, 1953, Serial 639,821.

DU-L-SPARK

For Adaptor for Application to an Ignition Distributor to Provide Therein an Additional Contact for Each Contact Made by the Distributor, per se.
Claims use since on or about Sept. 11, 1952.

584,026. (Class 19. Vehicles.) Victor A. Larsen, Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 21, 1953; amended to application, Supplemental Register, Oct. 9, 1953, Serial No. 641,060.



The drawing is lined for the color blue but color is not claimed as a part of the mark.
For Vehicle Window Weather Strips.
Claims use since on or about July 1, 1951.

584,027. (Class 19. Vehicles.) The Brunswick-Balke-Collender Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 5, 1953; amended to application, Supplemental Register, Sept. 11, 1953, Serial No. 641,762.

Brunswick

Applicant claims ownership of registrations Nos. 167,180, 204,531 and others.
For Plastic Airplane Parts—Namely, Noses, Radomes, Rudder Tips, Fin Tips, Wing Tips, and Farings.
Claims use since Apr. 29, 1952.

584,028. (Class 21. Electrical Apparatus, Machines and Supplies.) Cogg Manufacturers, Inc., Tulsa, Okla. Original filed, act of 1946, Principal Register, Mar. 11, 1953; amended to application, Supplemental Register, Sept. 24, 1953, Serial No. 643,465.

LITES-OUT

For Electrically Operated Cutout Switch for Automobile Lights, Controlled by the Vacuum in the Windshield Wiper Tank or Other Vacuum Tanks.
Claims use since Jan. 8, 1952.

584,029. (Class 46. Foods and Ingredients of Foods.) North American Milk Industries, Inc., Hialeah, Fla. Original filed, act of 1946, Principal Register, Mar. 16, 1953; amended to application, Supplemental Register, Aug. 25, 1953, Serial No. 643,705.

Ev-r-Fresh

For Canned Natural Milk.
Claims use since on or about June 15, 1952.

584,030. (Class 51. Cosmetics and Toilet Preparations.) Elizabeth Arden Sales Corporation, New York, N. Y. Filed Apr. 9, 1953, Serial No. 644,952.

SCREEN-STAGE MAKE-UP
by Elizabeth Arden

The name presented is that of "Elizabeth Arden," whose consent to use and register her name is of record in this case. Applicant claims ownership of registration No. 343,618.
For Eyelash Make-Up, Lip Rouge, Foundation Cream, Face Powder and Rouge.
Claims use since July 1, 1935.

584,031. (Class 52. Detergents and Soaps.) The Procter & Gamble Company, Cincinnati, Ohio. Filed Oct. 7, 1953, Serial No. 654,290.

JÖR

For Washing Agents and Detergents All for Domestic Use.
Claims use since Sept. 25, 1953.

Service Mark

584,032. (Class 105. Transportation and Storage.) Lissone-Lindeman U. S. A., Inc., New York, N. Y. Filed Oct. 10, 1952, Serial No. 636,483.

"DUTCH TREAT"

For Travel Agency Services—Arranging Travel Tours and Arranging and Procuring of Accommodations and Reservations Incident To Travel.
Claims use since on or about Jan. 15, 1951.

TRADE-MARK REGISTRATIONS RENEWED

39,739. REX. Registered Feb. 3, 1903. John S. Burton, Sherman, Tex. Re-renewed Feb. 3, 1953, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware Liniment. Class 18.

41,762. WHITE ROSE. Registered Dec. 29, 1903. Seeman Bros. Re-renewed Dec. 29, 1953, to Seeman Brothers, Inc., New York, N. Y., a corporation of New York. Cocoa and Chocolate. Class 46.

92,028. ALDEN. Registered June 17, 1913. Alden Mills, New Orleans, La. Re-renewed June 17, 1953, to Aldens, Inc., Chicago, Ill., a corporation of Illinois. Woven and Knitted Goods, Piece Goods, Shirtings, Sheetings, and Blankets. Class 42.

93,516. MARFILINA. Registered Sept. 23, 1913. Barclay & Barclay. Re-renewed Sept. 23, 1953, to Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Dentifrice. Class 51.

94,538. ALBA-LITE. Registered Dec. 16, 1913. Alabastine Company, Grand Rapids, Mich. Re-renewed Dec. 16, 1953, to Arnold A. Schwartz, Chicago, Ill. A Base in the Form of a Dry Powder, Made Up of Carbonate of Calcium and Other Ingredients, for Making a Paint and a Wall-Coating. Class 16.

94,883. CHABELCO. Registered Jan. 13, 1914. Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin. Re-renewed Jan. 13, 1954. Chain Belt Used for Power Transmitting and Conveying Purposes. Class 23.

95,225. MARYJANE. Registered Feb. 3, 1914. Charles N. Miller. Re-renewed Feb. 3, 1954, to Charles N. Miller Co., Boston, Mass., a corporation of Massachusetts. Candy. Class 46.

303,348. "FEWA" ETC. AND DESIGN. Registered May 23, 1933. H. Th. Böhme Aktiengesellschaft, Chemnitz, Germany. Renewed May 23, 1953, to Boehme Fettchemie G. m. b. H., Duesseldorf-Holthausen, Germany, a corporation organized under the laws of Germany. Soap Preparations. Class 52.

303,862. "AAA" AND DESIGN. Registered June 13, 1933. The American Automobile Association, Washington, D. C., a corporation of Connecticut. Renewed June 13, 1953. Road Signs Not Electrical, Emblems, and Badges. Class 50.

305,385. GLOSSETTE. Registered Aug. 15, 1933. The Hewitt Bros. Soap Company, doing business as Launette Products Co. Renewed Aug. 15, 1953, to The Hewitt Soap Company, Inc., Dayton, Ohio, a corporation of Ohio. Blueing. Class 6.

305,559. OIL AND SOAP. Registered Aug. 22, 1933. The American Oil Chemists' Society, New Orleans, La., and Chicago, Ill. Renewed Aug. 22, 1953, to The American Oil Chemists' Society, Chicago, Ill., an association of Illinois. Monthly Magazine. Class 38.

305,892. "FEWA" ETC. AND DESIGN. Registered Aug. 29, 1933. H. Th. Böhme Aktiengesellschaft, Chemnitz, Germany. Renewed Aug. 29, 1953, to Boehme Fettchemie G. m. b. H., Duesseldorf-Holthausen, Germany, a corporation organized under the laws of Germany. Soap Preparations. Class 52.

306,145. PROCITE. Registered Sept. 12, 1933. The Coal Processing Company, Cleveland, Ohio, a corporation of Ohio. Renewed Sept. 12, 1953. Preparation for the Treatment of Coal To Improve the Ash Forming Qualities and Burning Qualities, Etc. Class 6.

306,326. CALOL. Registered Sept. 12, 1933. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif., a corporation of Delaware. Renewed Sept. 12, 1953. Petroleum Gas, Liquefied Petroleum Gas. Class 6.

306,340. "DUALITE" AND DESIGN. Registered Sept. 19, 1933. Ritter Dental Manufacturing Company, Inc. Renewed Sept. 19, 1953, to Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware Dental and Surgical Operating Lights. Class 44.

306,373. HEIRLOOM. Registered Sept. 19, 1933. Oneida Community Limited. Renewed Sept. 19, 1953, to Oneida Ltd., Oneida, N. Y., a corporation of New York Sterling Silver Flatware. Class 28.

306,405. SEAWAY. Registered Sept. 19, 1933. George T. Springer, doing business as Seaway Brands Co., Minneapolis, Minn. Renewed Sept. 19, 1953. Canned Vegetables and Fruits. Class 46.

306,479. "SEALON" AND DESIGN. Registered Sept. 19, 1933. Craddock-Terry Co. Renewed Sept. 19, 1953, to Craddock-Terry Shoe Corporation, Lynchburg, Va., a corporation of Virginia. Shoes of Leather and Fabric. Class 39.

306,480. "VICTORIAS" AND DESIGN. Registered Sept. 19, 1933. Victorias Milling Company, Inc., Manila, Philippine Islands, a corporation organized under the laws of the Philippine Islands. Renewed Sept. 19, 1953. Refined Sugar. Class 46.

306,720. SYN AMEL. Registered Sept. 26, 1933. The Thresher Varnish Company, Dayton, Ohio. Renewed Sept. 26, 1953, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Quick Drying Enamel for Automobiles, Trucks and Floors, Furniture and Woodwork. Class 16.

306,888. VITOZONE. Registered Oct. 3, 1933. Fuld Bros., Inc., Baltimore, Md., a corporation of Maryland. Renewed Oct. 3, 1953. Automobile Top Dressing, Cream Silver Polish, Dairy Detergents, Dry Cleaning Soaps, Etc. Class 4.

307,111. VITOZONE. Registered Oct. 17, 1933. Fuld Bros., Inc., Baltimore, Md., a corporation of Maryland. Renewed Oct. 17, 1953. Automobile Polish, Automobile Wax, Concrete Hardener in Paint Form, Etc. Class 4.

307,296. VITOZONE. Registered Oct. 24, 1933. Fuld Bros., Inc., Baltimore, Md., a corporation of Maryland. Renewed Oct. 24, 1953. Antifreeze Composition, Bed Bug Exterminator Preparation, Boiler Compounds, Etc. Class 52.

307,417. "LBQ" WITHIN CIRCLE DESIGN. Registered Oct. 24, 1933. The Paris Medicine Company, Wilmington, Del., and St. Louis, Mo. Renewed Oct. 24, 1953, to Grove Laboratories, Inc., St. Louis, Mo., a corporation of Delaware. Medicinal Tablet for the Relief of Colds, Coughs, Headaches and Lagrippe. Class 18.

307,470. "MARY CHESS" ETC. AND DESIGN. Registered Oct. 24, 1933. Mary Chess, Inc. Renewed Oct. 24, 1953, to Mary Chess, Incorporated, New York, N. Y., a corporation of Delaware. Toilet Preparations—Namely, Astringents, Beauty Creams, Cleansing Creams, Etc. Class 51.

307,738. TECO. Registered Oct. 31, 1933. Timber Engineering Company, Washington, D. C., a corporation of Delaware. Renewed Oct. 31, 1953. Lumber and Fabricated Metal Joints for Timber Connections. Class 12.

307,776. "SPRAYRITE" ETC. AND DESIGN. Registered Oct. 31, 1933. Virginia Fruit Fumigation Company. Renewed Oct. 31, 1953, to Virginia Smelting Company, West Norfolk, Va., a corporation of Maine. Insecticide and Fungicide Mixture. Class 6.

308,080. SYNTROPAN. Registered Nov. 21, 1933. Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey. Renewed Nov. 21, 1953. Medicinal Preparation for Use in the Relief and Treatment of Spasmodic Conditions. Class 18.

308,195. CORDIAL-MEDOC. Registered Nov. 21, 1933. Jourde Freres, Bordeaux, France, a firm of France. Renewed Nov. 21, 1953. Distilled Alcoholic Cordial. Class 49.

308,242. "TETLEY TEA" AND DESIGN. Registered Nov. 28, 1933. Joseph Tetley & Co., Inc. Renewed Nov. 28, 1953, to Tetley Tea Co., Inc., New York, N. Y., a corporation of New York. Tea. Class 46.

308,601. "BEL VALER" AND DESIGN. Registered Dec. 12, 1933. Bellman Brook Bleachery Co., Fairview, N. J., a corporation of New Jersey. Renewed Dec. 12, 1953. Cotton Fabrics in the Piece. Class 42.

308,792. CREOLE. Registered Dec. 19, 1933. H. G. Hill Stores, Inc., New Orleans, La., a corporation of Louisiana. Renewed Dec. 19, 1953. Coffee, Canned Peas and Oleomargarine. Class 46.

309,192. "FORMWELL" AND DESIGN. Registered Jan. 9, 1934. The American Crayon Company, Sandusky, Ohio, a corporation of Ohio. Renewed Jan. 9, 1954. Modeling Clay. Class 1.

309,359. REPRESENTATION OF GIRL ON HORSE ETC. Registered Jan. 9, 1934. Potter & Moore Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Jan. 9, 1954. Pastes, Powders, Creams, and Lotions for Beautifying and Preserving the Teeth, Skin, Nails, and Hair; Etc. Class 51.

309,464. "SERENE KLEANER" ETC. Registered Jan. 16, 1934. Serene Kleaner Company, Cleveland, Ohio. Renewed Jan. 16, 1954, to Melvin E. Novy, Bay Village, Ohio. Cleaning and Washing Compound for Household Use. Class 52.

309,496. AJAX. Registered Jan. 16, 1934. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed Jan. 16, 1954, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Soap. Class 52.

309,671. ALABASCO. Registered Jan. 23, 1934. Alabastine Company, Grand Rapids, Mich. Renewed Jan. 23, 1954, to Arnold A. Schwartz, Chicago, Ill. Paints and Wall-Coatings in the Nature of Water Paints Prepared for Use by Combining a Dry Powder or Powders With Water. Class 16.

309,783. PALMOLIVE. Registered Jan. 30, 1934. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed Jan. 30, 1954, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Soap Dispensers. Class 13.

309,995. EVER BLUM. Registered Feb. 6, 1934. D. Blum & Co. Inc., New York, N. Y. Renewed Feb. 6, 1954, to D. Blum & Co., Incorporated, Long Island City, N. Y., a corporation of New York. Dry Cleaning Fluids. Class 52.

310,010. ESTERSOL. Registered Feb. 6, 1934. U. S. Industrial Chemical Co. Incorporated, Baltimore, Md., and New York, N. Y. Renewed Feb. 6, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Organic Solvents for Nitro-Cottons in the Manufacture of Lacquers and Kindred Products, Etc. Class 6.

310,076. "BLACK GOLD" AND DESIGN. Registered Feb. 13, 1934. The American Medicinal Spirits Company, Louisville, Ky. Renewed Feb. 13, 1954, to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia. Whiskey. Class 49.

310,171. "HAT LIFE" ETC. Registered Feb. 13, 1934. Hat Life, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 13, 1954. Monthly Publications. Class 38.

310,245. CYRUS NOBLE. Registered Feb. 13, 1934. Benjamin P. Lilienthal. Renewed Feb. 13, 1954, to Haas Brothers, San Francisco, Calif., a corporation of California. Whiskey. Class 49.

310,546. HOLLAND HOUSE. Registered Feb. 27, 1934. W. Sheinker & Son, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 27, 1954. Whiskey, Gin, Distilled Alcoholic Cordials, and Other Potable Distilled Liquors. Class 49.

310,549. PHANTOM. Registered Feb. 27, 1934. William Lind, doing business as William Lind Co., New York, N. Y. Renewed Feb. 27, 1954. Cotton Piece Goods. Class 42.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 329,804. Registered Nov. 12, 1935. Lucius P. Cook, doing business as L. P. Cook, Memphis, Tenn. Republished by L. P. Cook & Son, Inc., Memphis, Tenn., a corporation of Tennessee.

SEEDS WITH A FUTURE

The word "Seeds" is disclaimed apart from the mark as shown.

For Field Seeds.

Claims use since July 1923.

CLASS 11

INKS AND INKING MATERIALS

Reg. No. 428,370. Registered Mar. 25, 1947. The Standard Register Company, Dayton, Ohio, a corporation of Ohio. Republished by registrant.

WRITE RIGHT

The word "Write" is disclaimed apart from the mark as shown.

For Carbon Paper.

Claims use since during or about January 1925.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 393,757. Registered Mar. 3, 1942. J. E. Blackman, doing business as Hydrozo Products Co., Gering, Nebr. Republished by registrant, present address Lincoln, Nebr.

HYDROZO

For Colorless, Penetrating, Pore-Filling Solution for Waterproofing and Preserving Masonry and Wood.

Claims use since Jan. 1, 1937.

CLASS 15

OILS AND GREASES

Reg. No. 376,409. Registered Mar. 26, 1940. Pennsylvania Grade Crude Oil Association, Oil City, Pa., a corporation of Pennsylvania. Republished by registrant

MEMBER OF PENNSYLVANIA GRADE
Guaranteed
100% PURE
PENNSYLVANIA
OIL
CRUDE OIL ASSOCIATION
Made from
the highest grade crude oil in the world

The expressions "Guaranteed 100% Pure Pennsylvania Oil" and "Made From the Highest Grade Crude Oil in the World," are disclaimed apart from the mark as shown.

For Lubricating Oils and Greases.

Claims use since Sept. 13, 1932.

Reg. No. 376,410. Registered Mar. 26, 1940. Pennsylvania Grade Crude Oil Association, Oil City, Pa., a corporation of Pennsylvania. Republished by registrant.

Guaranteed
100% PURE
PENNSYLVANIA
OIL

The expression "Guaranteed 100% Pure Pennsylvania Oil," is disclaimed apart from the mark as shown.

For Lubricating Oils and Greases.

Claims use since Sept. 16, 1924.

Reg. No. 376,411. Registered Mar. 26, 1940. Pennsylvania Grade Crude Oil Association, Oil City, Pa., a corporation of Pennsylvania. Republished by registrant.

Guaranteed
100% PURE
PENNSYLVANIA
OIL
Made from
the highest grade crude oil in the world

The expressions "Guaranteed 100% Pure Pennsylvania Oil" and "Made From the Highest Grade Crude Oil in the World," are disclaimed apart from the mark as shown.

For Lubricating Oils and Greases.

Claims use since Dec. 10, 1932.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 305,531. Registered Aug. 22, 1933. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

PYRALUX

For Lacquers and Pyroxylin Enamels.

Claims use since July 1, 1932.

Reg. No 335,349. Registered June 2, 1936. Pyroxylin Products, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

PYROXCOTE

For Nitrocellulose Lacquers for Walls, Ceilings, Floors, Linoleum Wallpaper, Automobiles, Furniture, Rubber, Metal, and the Like, and for Primers and Thinners for Such Lacquers.

Claims use since June 25, 1928.

Reg. No. 439,713. Registered July 13, 1948. Pyroxylin Products, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

PROX-PEEL

The word "Peel" is disclaimed apart from the mark as shown.

For Family of Coating Compositions Made From Several Film-Forming Bases for Application as Melts, or in Solution Form in Volatile Solvent, for Providing Adherent Transparent-to-Opaque Protective Coats Readily Peelable as a Tough Film for Removal To Expose the Protected Surface.

Claims use since on or about Feb. 7, 1944.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 223,623. Registered Feb. 8, 1927. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

Nyalgesic

For Liquid Analgesic for Pain.

Claims use since Sept. 28, 1926.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 90,762. Registered Mar. 18, 1913. W. A. Tyzack & Co., Sheffield, England. Republished by W. A. Tyzack & Company, Limited, Sheffield, England, a limited liability company organized under the laws of the United Kingdom.



HORSEMAN

For Tobacco Knives and Saws.

Claims use since the month of May 1909.

Reg. No. 173,433. Registered Sept. 25, 1923. Baldwin Tool Works, Parkersburg, W. Va. Republished by O. Ames Co., Parkersburg, W. Va., a corporation of Delaware.

KNOX-ALL

For Shovels, Spades, Scoops, Posthole Diggers, and Wooden Handles.

Claims use since 1905.

Reg. No. 406,064. Registered Mar. 7, 1944. The Standard Register Company, Dayton, Ohio, a corporation of Ohio. Republished by registrant.

STANFLEX

For Platen Rolls for Imprinting Machines and Parts Thereof.

Claims use since Aug. 17, 1943.

CLASS 37

PAPER AND STATIONERY

Reg. No. 351,260. Registered Oct. 26, 1937. Wyoming Valley Paper Mill, Northumberland, N. H., and New York, N. Y. Republished by Groveton Papers Co., Groveton, N. H., a corporation of Maine.

GOOD HEALTH

For Toilet Paper.
Claims use since the year 1918.

Reg. No. 364,636. Registered Feb. 7, 1939. Wyoming Valley Paper Mill, Northumberland, N. H., and New York, N. Y. Republished by Groveton Papers Co., Groveton, N. H., a corporation of Maine.

Industrious Andy

For Paper Towels.
Claims use since July 14, 1938.

Reg. No. 396,489. Registered July 21, 1942. The Standard Register Company, Dayton, Ohio, a corporation of Ohio. Republished by registrant.

STANGUARD

For Writing Paper, Blank Checks, and Business Forms.
Claims use since May 6, 1941.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 399,298. Registered Dec. 29, 1942. The Standard Register Company, Dayton, Ohio, a corporation of Ohio. Republished by registrant.

FORMCRAFT

For Hand Drawn Illustrations, Sketches, Layouts, and Designs for Printed Matter and Printed Reproductions Thereof Prepared by the Applicant and Sold to the Trade as Such.
Claims use since Aug. 11, 1938.

Reg. No. 439,237. Registered June 8, 1948. Tracerlab, Inc., Boston, Mass., a corporation of Massachusetts. Republished by registrant.

tracerlog

For Monthly Bulletin.
Claims use since Jan. 1, 1947.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 442,365. Registered Apr. 5, 1949. Texas Textile Mills, Dallas, Tex., a corporation of Texas. Republished by registrant.

a TEX★TEX Fabric

The word "Fabric" is disclaimed apart from the mark as shown.
For Piece Goods—Namely, Denims, Coverts, Whip-Cords, Tickings, Drills, Twills, Sheetings, Suitings, Woven From Cotton, Rayon, and Mixed Rayon-Cotton Fibres.
Claims use since Jan. 1, 1944.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 103,790. Registered Apr. 13, 1915. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NYAL

For Surgical Gauze, Absorbent Cotton, Sanitary Napkins, Hot-Water Bottles, Syringes, Atomizers, Nipples, Medicine Droppers, Nipple-Shields, Face-Bags, Breast-Pumps, Vaginal Douches, Ice Caps or Bags, Fingercots, and Suspensories.
Claims use since Mar. 5, 1914.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 90,363. Registered Feb. 18, 1913. Geo. T. Myers & Co., Seattle, Wash., and Chatham, District of Alaska. Republished by New England Fish Company, Seattle, Wash., a corporation of Maine.

Courage

For Canned Salmon.
Claims use since July 1905.

Reg. No. 242,587. Registered May 29, 1928. Ukiah Fruit Growers, Inc., Ukiah, Calif., a corporation of California. Republished by registrant.

UFG

No claim is made to the use of the particular color red shown on the drawing.
For Fresh Pears in Their Natural State.
Claims use since on or about July 18, 1927.

Reg. No. 369,632. Registered Aug. 1, 1939. Santa Cruz Artichoke & Sprout Growers, Santa Cruz, Calif. Republished by Santa Cruz Artichoke and Sprout Growers Association, Santa Cruz, Calif., a corporation of California.

COAST KING

For Fresh Vegetables.
Claims use since Oct. 8, 1936.

Reg. No. 369,633. Registered Aug. 1, 1939. Santa Cruz Artichoke & Sprout Growers, Santa Cruz, Calif. Republished by Santa Cruz Artichoke and Sprout Growers Association, Santa Cruz, Calif., a corporation of California.

COAST QUEEN

For Fresh Vegetables.
Claims use since Oct. 8, 1936.

Reg. No. 388,205. Registered June 17, 1941. O'Keefe Brothers, Jacksonville, Tex. Republished by O'Keefe Brothers, Jacksonville, Tex., a partnership.



The name "O'Keefe Brothers" is disclaimed apart from the mark as shown.
For Fresh Vegetables.
Claims use since November 1932.

Reg. No. 399,137. Registered Dec. 15, 1942. J. S. McManus, doing business as J. S. McManus Produce Company, Weslaco, Tex. Republished by registrant.



For Fresh Vegetables.
Claims use since November 1937.

Reg. No. 420,155. Registered Mar. 26, 1946. William B. Hubbard, El Centro, Calif. Republished by registrant.

SEQUOIA

For Fresh Vegetables.
Claims use since March 1933.

CLASS 48

MALT BEVERAGES AND LIQUORS

Reg. No. 304,894. Registered July 18, 1933. Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbräu A.-G. München, Munich, Germany. Republished by Gabriel Sedlmayr Spaten-Franziskaner-bräu Aktiengesellschaft München, Munich, Germany, a corporation organized under the laws of the Federal Republic of Germany.



The word "Schutzmarke" is disclaimed apart from the mark as shown.
For Malt Beverage With Not More Than the Legal Alcoholic Content.
Claims use since Jan. 15, 1891.

Reg. No. 331,061. Registered Dec. 24, 1935. Gabriel & Jos. Sedlmayr Spaten-Franziskaner Leistbräu A.-G. München, Munich, Germany. Republished by Gabriel Sedlmayr Spaten-Franziskaner-bräu Aktiengesellschaft München, Munich, Germany, a corporation under the laws of Germany.

Franziskaner

For Beer.
Claims use since 1855.

Reg. No. 335,590. Registered June 9, 1936. Gabriel u. Jos. Sedlmayr, Spaten-Franziskaner-Leistbräu A.-G. München, Munich, Germany. Republished by Gabriel Sedlmayr Spaten-Franziskaner-bräu Aktiengesellschaft München, Munich, Germany, a corporation under the laws of Germany.



The words "Bräu München" are disclaimed apart from the mark as shown.
For Beer.
Claims use since Oct. 15, 1935.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Reg. No. 387,893. Registered June 3, 1941. Frank Powell, doing business as Chick Powell Co., Miami, Fla. Republished by registrant.

WORRYBIRD

For Novelties and Souvenirs, Particularly in the Form of Birds.

Claims use since Oct. 1, 1938.

Reg. No. 440,623. Registered Sept. 14, 1948. Pyroxylin Products, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

PROX-MESH

The word "Mesh" is disclaimed apart from the mark as shown.

For Composite Structure Made of Open-Mesh Sheet Material, Such as Textile or Wire Netting, Having Its Interstices Filled and Closed by a Transparent, or Translucent, or Opaque Adherent Film of Plastic Material Capable of Flexing Readily With the Netting Designed as a Substitute for Glass.

Claims use since on or about June 1, 1937.

REISSUES

DECEMBER 22, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

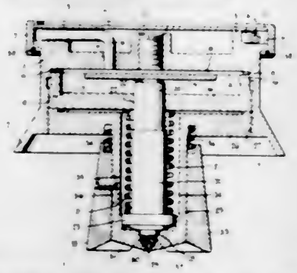
23,755

APPARATUS FOR TESTING THE HARDNESS OF MATERIALS

Alfred Ernst, Milan, Italy

Original No. 2,536,632, dated January 2, 1951, Serial No. 755,293, June 18, 1947. Application for reissue December 19, 1951, Serial No. 262,384. In Switzerland February 6, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires February 6, 1966

9 Claims. (Cl. 73—81)



1. A compact testing device for testing the hardness of materials by surface penetration of the materials to be tested, including the combination, with a hollow casing having a downwardly directed opening, of a depending portion and an upper wide lateral portion on the casing; a plunger vertically movable in the casing and having a head adjacent to the lower end thereof slidably disposed in the depending portion, the upper lateral portion of the casing having a guide hole through which the upper end of the plunger extends slidably; an expansion coil spring mounted on the plunger in effective position to rest with its lower end on the head and engage with its upper end against the upper lateral portion of said casing; a hardness testing element fixed on the bottom of the head of said plunger and normally projecting down through said opening; the casing having a first wide lateral chamber extending transversely of the plunger and a second wide and shallow chamber overlying the first chamber for containing a fluid; a diaphragm forming a lateral flexible partition separating the two chambers; intermediate reinforcing means on the diaphragm, the upper end of said plunger abutting the reinforcing means on said diaphragm from beneath; a cover mounted on the upper portion of said casing and having a transparent top forming a window; and a capillary tube arched into a partial loop with [a closed end and] *one end* lying on the casing beneath the transparent top or window of the cover, with the other end of said capillary tube extending down into direct communication with the second chamber in said casing, and said casing having a series of indicia adjacent to said capillary tube beneath the window of said cover.

7. *A compact testing device for testing the hardness of materials by surface penetration of the materials, including the combination with a sleeve, a hollow casing slidable in said sleeve and having a hollow depending portion provided with a downwardly directed opening, of a plunger vertically slidable in the depending portion of the casing, a hardness testing element secured to the lower end of the plunger and normally projecting through said opening, resilient means in said casing operatively connected with said plunger for biasing said plunger towards said opening, a chamber for a liquid body formed within the casing and having a flexible diaphragm as a lower wall thereof, said diaphragm being disposed in proximity to the upper end of said plunger and adapted to be deformed by said plunger upon displacement of said plunger against the biasing action of said resilient means, a capillary tube mounted within said casing, said capillary tube having one end extending into said chamber for communication with the chamber for the liquid body therein, and having the other end disposed on said casing for viewing, indicia carrying scale means disposed on said casing adjacent the said other end of said capillary tube for measuring the position of liquid at such other end, and second resilient means interposed between said sleeve and casing for normally biasing the lowermost portion of the sleeve to a position below the lowermost portion of the depending portion of the casing and thereby position the hardness testing element above the uppermost plane of the object the hardness of which is to be tested when the bottom of the sleeve rests on said object, said casing being manually displaceable downwardly relative to the sleeve against the biasing action of said last named resilient means for displacing said casing and therewith the hardness testing element on the plunger into contact with the object, the hardness of which is to be tested.*

23,756

STAPLE FEED MECHANISM FOR PORTABLE PNEUMATIC STAPLERS

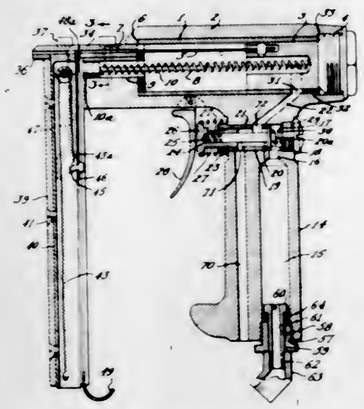
Albert G. Juilfs, Newtown, Ohio, assignor to Senco Products, Inc., Cincinnati, Ohio, a corporation of Ohio

Original No. 2,585,942, dated February 19, 1952, Serial No. 181,024, August 23, 1950. Application for reissue February 10, 1953, Serial No. 336,215

4 Claims. (Cl. 1—44.4)

1. In a portable pneumatic stapler having pneumatically driven means for driving a staple into a piece of work, a staple feed mechanism for positioning a staple before said staple driving means, said staple feed mechanism comprising; an elongated channel member having upstanding sides and being open at the top, a spring lying within said channel member, one end of said spring being fixed near one end of said channel member, a staple follower adapted to straddle said upstanding sides and bridging said open top, said follower riding on said upstanding sides behind a supply of staples, a pin depending from said follower, said spring being looped around a member positioned near the other end of said channel member, the other end of said spring being fixed to said pin, a cover positioned above said open

top and slidable thereover, said cover having a slot, and a boss on said follower adapted to engage in said slot, whereby said follower may move on said channel member under the tension of said spring, said cover protecting said follower and said staples; a second channel member generally corresponding to said first mentioned channel member, said first channel member being fixed within said second channel member, said second channel member having upstanding sides spaced from and substantially parallel to said first mentioned upstanding sides, whereby said



follower and said staples straddle said first mentioned sides only, said second channel member serving as a guard for said follower and said staples; said second mentioned upstanding sides being provided with slots in which said slotted cover is slidably positioned; said cover being provided with indentations along one of its edges, a catch member positioned within an opening provided in said second channel member, a plug in said opening, a spring between said plug and said catch member, an abutment fixing the extent of movement of said catch member by said spring, said catch member normally extending into one of the slots provided for said cover in said second upstanding sides whereby it engages within a said indentation, and a boss on said catch member, said boss extending through said abutment, whereby depressing said boss moves said catch member against said spring and out of engagement with said indentation to permit movement of said cover within said slots.

23,757
COMPLEMENTARY COLOR BLENDING
Ralph E. Pike, Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Original No. 2,642,404, dated June 16, 1953, Serial No. 247,957, September 24, 1951, which is a division of Serial No. 51,883, September 30, 1948, now Patent No. 2,604,414, dated July 22, 1952. Application for reissue September 30, 1953, Serial No. 383,428
17 Claims. (Cl. 260—16)



1. A coating composition adapted to yield a tough, durable finish having a metallic appearance of great depth and brilliance, comprising a vehicle and pigment, said pigment consisting of (A) the nickel complex of the azo dye obtained by coupling diazotized parachloraniline with 2,4-dihydroxyquinoline; (B) *transparent* pigment substantially complementary in color to the said (A) pigment in amount to yield a gray when mixed separately therewith; (C) at least one colored tinting pigment and (D) finely divided flake aluminum metal.

PLANT PATENTS

GRANTED DECEMBER 22, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,234
ROSE PLANT
Martin R. Jacobus, Ridgefield, N. J., assignor to Bobbink Nurseries, Inc., East Rutherford, N. J., a corporation of New Jersey
Application December 29, 1952, Serial No. 328,540
1 Claim. (Cl. 47—61)

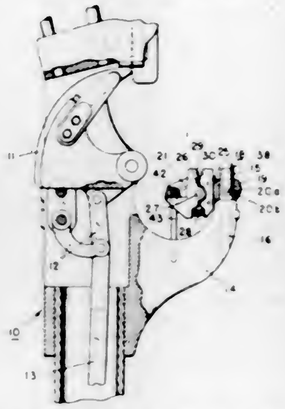
A new and distinct variety of rose plant of the hybrid Wichuraiana class, substantially as herein shown and described, characterized particularly as to novelty by its everblooming habit, by the penetrating fragrance of its blooms, by its excellent petal formation and arrangement with attending perfect opening of its blooms, by the Spectrum Red to Rose Red general color tonality of its blooms and their absence of bluing or fading under hot and humid weather conditions, by its neat, upright and hardy habits of growth, by its production of good blooms throughout the growing season during the first year after planting and without diminishing the strength of the plant, by its heavy production of blooms on 2-year plants in the nursery rows, and by its good resistance to mildew and blackspot.

PATENTS

GRANTED DECEMBER 22, 1953

GENERAL AND MECHANICAL

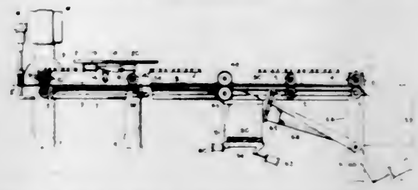
2,663,018
MACHINE FOR APPLYING END STOPS TO SLIDE FASTENERS
John G. Soave, Long Island City, N. Y., assignor to Waldes Kohinoor, Inc., Long Island City, N. Y., a corporation of New York
Application May 19, 1950, Serial No. 162,961
8 Claims. (Cl. 1—4)



1. An attachment for a fastener end-stop applying machine including an anvil having a horizontal working face, said attachment comprising the combination of a frame member incorporating means at one end thereof for detachably securing the frame member to the anvil, slider securing means operatively associated with the frame member and being spaced horizontally from said securing means comprising means defining a vertically disposed slot for the pull tab of a slider and a horizontal positioning surface for the slide body which is disposed substantially in the horizontal plane of the working face of the anvil and means normally operative to clamp the pull tab received in said slot, manual means for rendering said clamping means inactive, and an abutment on the working face of the anvil for the endmost fastener element of a pair of fastener stringers assembled with the slider and extending between said slider and anvil.

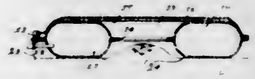
2,663,019
SHEET ASSEMBLING MACHINE
Thomas A. Patty, Miami, Fla.
Application August 29, 1952, Serial No. 307,049
8 Claims. (Cl. 1—8)

1. In an apparatus adapted to serve an imprinting machine and wherein a plurality of imprinted disassociated panels are formed, the combination of a track, a stacking bin arranged below said track and in panel receiving relation therewith, a stapling head in operative association with said bin, an oscillatory dumping platform having a clinching recess in the top thereof and forming a common bottom closure for said bin for the deposit of the disassociated panels in stacked relation thereon and a clinching block to receive the stapling impact of said head, means directing said head in descent upon the stacked panels to drive a staple therethrough, the prongs



of said staple being received in said recess for the clinching thereof in compression between said platform and said head, and means pivoting said platform to discharge the stapled panels therefrom.

2,663,020
PNEUMATIC INJURY PAD
Cecil A. Cushman, Redlands, Calif.
Application December 20, 1950, Serial No. 201,742
6 Claims. (Cl. 2—2)

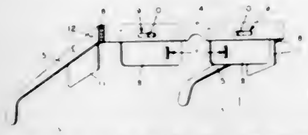


1. An injury protecting pad for athletes comprising an endless inflatable bladder having a bottom portion adapted to be disposed against the body of the user around an injury, said bladder defining an opening in which the injury may be accommodated, a relatively stiff plate disposed against and supported by an outer, top side of the bladder and forming a shield, a flexible covering strip overlying said plate and the top side of the bladder and secured along its marginal edge to an outer marginal edge of the bladder and combining with the upper part of the bladder to define a pocket for receiving the plate, and means for detachably fastening a portion of the marginal edge of the flexible covering strip to a portion of the outer marginal edge of the bladder to provide an opening in the pocket through which the plate may be applied thereto or removed therefrom.

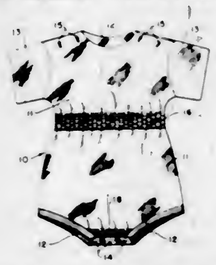
2,663,021
OPTICAL DEVICE FOR GOLF INSTRUCTION
Robert S. Douglass, Port Washington, N. Y.
Application May 3, 1950, Serial No. 159,685
3 Claims. (Cl. 2—14)

1. A device for limiting the field of vision of a golf player to the immediate region of the golf ball to be struck by the wearer which comprises two substantially opaque optical screens containing visual portions consisting of a single substantially vertical visual aperture in each screen, said visual apertures having a maximum width of not more than $\frac{1}{8}$ of an inch and a minimum width of not less than $\frac{1}{32}$ of an inch and the

length of said apertures being between about ½ and about 1 inch, and means for positioning the optical screens before the eyes such that the visual apertures are substantially in front of the pupils of the eyes of the wearer, said vertical visual apertures being similar in shape and location in each of said optical screens.



2,663,022
INFANT'S GARMENT
Harry Aaronson, Cedarhurst, N. Y., assignor to Perfect Knit Togs, Inc., New York, N. Y., a corporation of New York
Application March 29, 1952, Serial No. 279,421
2 Claims. (Cl. 2—80)



1. An infant's torso covering garment having front and rear panels, connected together so as to form shoulder portions, a body portion, and a crotch portion, the lower ends of the front and rear panels being formed with crotch forming extensions, a vertically extensible band uninterruptedly encircling said garment at the waistline thereof, vertically extensible inserts at the lower ends of the crotch forming extensions of the front and rear panels of the garment extending the full width thereof, and means connecting said lower ends to form said crotch portion of the garment.

2,663,023
KNOT FORM
Lawrence R. Thorpe, Columbus, Ohio
Application July 6, 1949, Serial No. 103,213
2 Claims. (Cl. 2—153)



1. A Windsor knot former for four-in-hand ties comprising a solid body of substantially inverted triangular shape in outline having its front face convexly curved and having its back face concavely curved, the corners of said body opposite the apex end being rounded, the base of said body being wider than the height thereof with the apex end being blunted, the blunted apex end being cut away along its rear face and forming an inverted V-shaped channel in the form of an inverted V-shaped notch, said knot former being adapted to be received within the knot portion of the four-in-hand necktie and being adapted to be positioned between the overlapping end portions of the necktie, said notch being adapted to receive an intermediate portion of the overlapping end portion and form a dimple therein.

2,663,024
COLLAPSIBLE HAT
Alexander Cantor, Chicago, Ill.
Application September 6, 1951, Serial No. 245,342
3 Claims. (Cl. 2—177)



1. In a collapsible hat that includes a ring-like brim of flexible material having an inner opening defined by a continuous inner edge of said brim, and said brim having an outer peripheral edge, and a loop of flexible resilient wire secured to said brim along said outer peripheral edge and normally maintaining the brim in extended condition; a crown of thin flexible material of larger size than said inner opening and having an edge longer than said inner brim edge, said crown being formed to bowl shape and having a marginal portion puckered to a length substantially equal to that of said inner brim edge, and turned inwardly in surface to surface contact with a marginal portion of said brim immediately adjacent its said inner edge, and a peripherally elastic laterally inelastic strip shorter than said inner edge, surrounding said inner opening and doubled over and secured to said marginal brim and crown portions to define a single reinforced head engaging edge, thereby maintaining said brim taut between itself and said wire and providing a flange-like inner rim structure extended inward about said inner opening substantially in alignment with said brim.

2,663,025
WAIST AND ABDOMINAL FITTING PORTION IN NETHER GARMENT
Siegfried Isaac, New York, N. Y.
Application June 11, 1952, Serial No. 292,863
1 Claim. (Cl. 2—221)



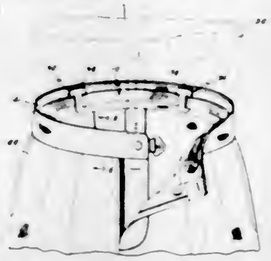
A woman's outer garment comprising a waist and abdominal fitting portion and a portion covering at least the lower thighs of the wearer, the garment comprising front and rear sections, a front central stay, a plurality of stays on the front section on each side of the central stay, a wide elastic band secured between a pair of stays, a slide fastener in the center of said rear section, a single stay on each side of said slide fastener adjacent thereto, a pair of opposed tabs containing a hook and eye respectively secured adjacent the slide fastener to provide support therefor, darts secured beneath the stays, and a ribbon stitched to the garment and enclosing each stay and dart, said central stay extending below the lower edge of said darts.

2,663,026
SHIRT HOLD-DOWN DEVICE
Steve Arnold, Brooklyn, N. Y.
Application September 6, 1949, Serial No. 114,100
5 Claims. (Cl. 2—229)



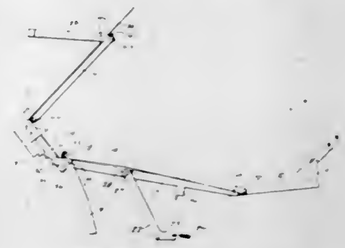
3. A shirt hold-down device integral with the shirt which in combination with the trousers will restrain the front of the shirt from creeping up, said device comprising: a shirt, a strip of elastic material, the upper end of the elastic strip being at an oblique angle to the button line of the shirt and overlapping a portion of the button line of the shirt's tail, the elastic strip being permanently secured to the shirt by several rows of stitches; a moveable jaw type clamping means attached to the lower end of the elastic strip in parallel relation to the upper end, the clamping means being adaptable to be attached to the inner fly of the trousers.

2,663,027
ELASTIC BELT AND SUPPORT THEREFOR
Donald G. Posson, Needham, Mass.
Application March 30, 1950, Serial No. 152,772
3 Claims. (Cl. 2—237)



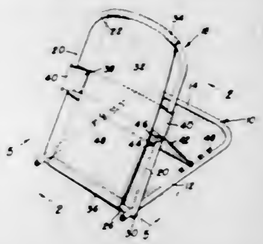
1. In combination, an inner elastic belt for supporting a garment from the inside thereof, said belt having a slip-resisting surface thereon, a buckle for connecting the ends of the belt, and a support for said belt adapted to be fastened to the inside of the garment at the waistband thereof, said belt support comprising an integral member of flexible material having a body portion and downwardly extending arms at the sides thereof for attachment to the garment, a central leg extending downwardly from the body portion and between said arms, said leg having a foot extending laterally thereof in the same plane and said foot having a toe open at the top extending upwardly, and said leg being capable of being flexed outwardly at its lower end whereby the belt may be passed over said arms and behind said leg and be held supported on said toe.

2,663,028
COMBINED SEAT AND FOLDING BED
Abraham Winikoff, New York, N. Y.
Application May 22, 1948, Serial No. 28,687
6 Claims. (Cl. 5—13)



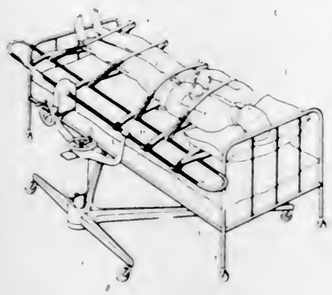
1. In a convertible seat-bed having a seat frame, an inner bed section pivoted to said frame, an adjacent middle bed section pivoted to said inner section, an adjacent fold section pivoted to said middle section, and an adjacent outer section pivoted to said fold section, an inner leg pivoted at the junction of said middle and fold sections and having an extension above said pivot, a link from said extension to said inner section, a crank lever pivoted on said frame, a spring attached to said frame and to one end of said lever, the other end of said lever being pivoted to said middle section, a latch mounted in said fold section, a hooked end thereon below said middle section and engageable therewith to limit the movement of said fold section when the bed is in closed position.

2,663,029
HEAD SUPPORT
Henry B. Whitley and Eunice G. Whitley, Durham, N. C.
Application December 13, 1951, Serial No. 261,476
3 Claims. (Cl. 5—71)



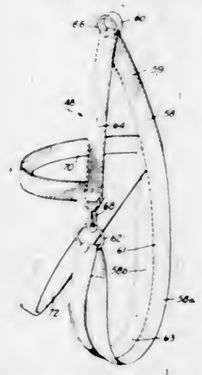
3. A back and head rest comprising first and second U-shaped tubular frames, a tubular cross bar extending between the ends of said first frame, a pair of nuts fitted in the ends of said bar and engaging the facing peripheries of the ends of said first frame, each of said frames having transverse apertures in their ends in registry with each other and said nuts, bolts extending through said apertures and threaded in said nuts to pivotally secure the frames together, said second frame including a web portion remote from said bar, a U-shaped brace swingably carried by the second frame, a plurality of pairs of lugs supported on the first frame for selectively engaging the brace to retain the second frame inclined relative to the first frame, and an elongated flexible backing having transverse end sleeves receiving said bar and said web portion.

2,663,030
INVALID LIFT AND TRANSFER DEVICE
Bengt Rudolf Dahlberg, Bredbyn, Sweden, assignor to J. R. Andersson & Co. A B, Sundbyberg, Sweden, a limited-liability company of Sweden
Application April 25, 1949, Serial No. 89,382
Claims priority, application Sweden April 26, 1948
15 Claims. (Cl. 5—86)



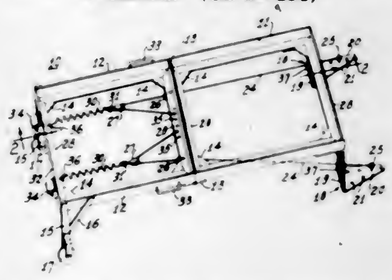
1. An apparatus for handling recumbent persons, comprising; a plurality of substantially flat, relatively narrow and long supporting elements adapted for being individually introduced beneath the body of the recumbent person at arbitrary relative distances, a base, a support on the base, two parallel substantially horizontal gripping rods extending substantially the length of a bed, supporting means on said support supporting said gripping rods thereon, said supporting means being adjustable vertically relative to each other causing the said gripping rods to engage the free ends of the plurality of supporting elements when inserted in position beneath the recumbent person for gripping and supporting the said supporting elements in a cantilever fashion, and said supporting means also being adjustable vertically on said support in unison to lift the pair of gripping rods in gripping position with respect to said support while holding the said gripping rods horizontal in all lifted positions thereof.

2,663,031
HARNESS FOR INVALID HOISTS
Jesse H. Kalthoff, Kansas City, Mo.
Application May 1, 1950, Serial No. 159,308
1 Claim. (Cl. 5—89)



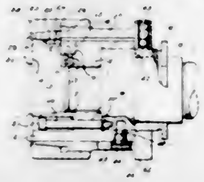
A harness for invalid hoists, comprising a vertically elongated loop adapted at its upper end for attachment to a hoist, said loop comprising a pair of band members which are superposed and secured together to form a relatively narrow upper portion of the loop, said band members in the lower portion of the loop being juxtaposed and having contiguous overlapped edge portions secured together to provide a relatively wide thigh supporting region, means at one side of said loop for separably connecting the upper and lower portions of the loop together whereby said thigh supporting region may be disconnected at one side and passed under an invalid, a U-shaped seat forming strap secured at opposite ends thereof to the upper portions at opposite sides of said loop and extending downwardly and rearwardly therefrom, and a U-shaped back supporting strap secured at opposite ends thereof to said loop at points adjacent the respective ends of the seat forming strap.

2,663,032
FOLDING BED MECHANISM
Vincent Giuseffi, South Orange, N. J.
Application July 5, 1950, Serial No. 172,124
9 Claims. (Cl. 5—154)



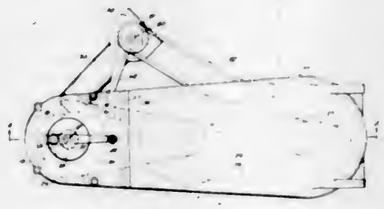
1. A folding bed mechanism suitable for use on a relatively flat foundation surface comprising: upper and lower half-frames each having two side members and a top and bottom cross member joined to define a plane corresponding to the underside of a half mattress; hinging means articulately connecting the top cross member of the lower half frame to the bottom cross member of the upper half frame so that in folding and unfolding said mechanism the half frames may be moved relatively to each other between two limiting positions in one of which said planes are mutual extensions of each other and in the other of which they are closely adjacent and parallel; means for articulately anchoring the top end of the upper half frame with respect to a predetermined part of said foundation surface so that said plane defined by the sides of this half frame may be moved about an axis parallel to its top cross member between a position parallel to the foundation surface when the mechanism is unfolded and one substantially perpendicular to said surface when the mechanism is folded; means affording at least one anchor point near to said predetermined part of the foundation surface; one leg attached at its top end to each of the side members of the lower half-frame near to its bottom cross member; one wheel carried on the other end of each leg; at least one counterspring-arrangement means for exerting a variable contractile force directly between said anchor point and a part of said lower half-frame near its bottom cross member to variably urge the two half-frames toward the limiting position in which they are closely adjacent to each other, the last-mentioned means including a spring coupled between said anchor point and said part of the lower half-frame and suitable for pre-loading under tension, a cable coupled to an end of the spring for coupling said end to said anchor point, for attaching one end of said cable being attached to said anchor point, said anchor point being located near to a portion of said surface which is more closely adjacent to the top cross member of said upper half-frame when the mechanism is unfolded than to any of the other cross members, and a pulley-like cable-carrying means hung from one of the articulately-connected cross members and carrying said cable strung through it; whereby in all positions of the mechanism intermediate said two limiting positions the force along the cable is exerted along a broken line which has an apex at said pulley-like means and said contractile force as directly exerted in a substantially straight line between said anchor point and said last-mentioned part of the lower half-frame varies in magnitude as the upper and lower half-frames are moved between their two limiting positions.

2,663,033
AUTOMATIC PULL-OFF OR YOKE OPERATED DIE HEAD
Charles H. Laemmel, Dayton, Ohio, assignor, by mesne assignments, to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio
Application December 22, 1948, Serial No. 66,793
8 Claims. (Cl. 10—95)



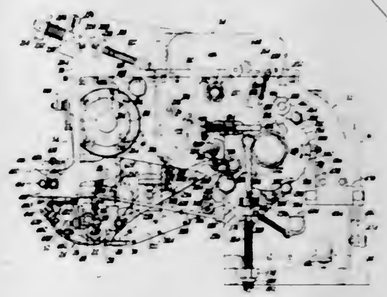
1. A die head adapted for either pull-off operation or yoke operation as desired, said head having threading chasers, a shank, and a carrying body on said shank on which the chasers are movable from opened to closed positions, an opening and closing shell having an operable connection with the chasers, manually operable means for moving the chasers to closed position, means for opening the chasers automatically in a threading operation when the shank is held against axial travel with respect to the work, securing means for preventing movement of the body with respect to the shank during yoke operation, and an opening ring on the opening and closing shell adapted for yoke operation to open the chasers and to close the chasers.

2,663,034
LASTING MACHINE
Herman Schwabe, New York, N. Y.
Application September 19, 1950, Serial No. 185,614
10 Claims. (Cl. 12—1)



9. A cover lasting machine comprising a feed roll rotatable about a fixed axis, a cooperating feed roll mounted in a spring pressed rocker member, a wiper roll located behind the feed rolls in the direction of the work feed, an independently driven rotary ironing tool located adjacent to the wiper roll, gear mechanism connected to one feed roll and to the wiper roll, a clutch controlling said mechanism, and treadle operated means for simultaneously disengaging the clutch and swinging said rocker member to separate the feed rolls.

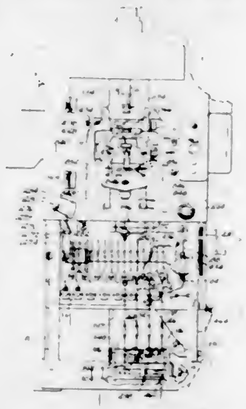
2,663,035
LASTING MACHINE
Lloyd G. Miller, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 31, 1949, Serial No. 136,293
21 Claims. (Cl. 12—8.3)



11. A lasting machine having, in combination, a member for engaging the bottom of a shoe adjacent to the marginal edge thereof, a power-operated gripper for intermittently seizing, tensioning and releasing different portions of the stock to be lasted, successively, in different locations along the marginal edge of the bottom of the shoe, a continuously acting rotary wiper for laying the lasting margin of the tensioned stock inwardly over, and for pressing said lasting margin against, the bottom of the shoe, means for causing said gripper, while tensioning the stock, to exert a stress thereon tending to feed the shoe to present the lasting margin of the tensioned stock to said wiping means, and means, operating in time relation to the action of the gripper, for clamping the lasting margin of the stock against a portion of the shoe-bottom-engaging member to hold the stock from loosening, in a succeeding location, each time the stock is released by said gripper.

21. A lasting machine having, in combination, a member for engaging the bottom of a shoe adjacent to the marginal edge thereof, a power-operated gripper for intermittently seizing, tensioning and releasing different portions of the stock to be lasted, successively, in different locations along the marginal portion of the bottom of the shoe, a continuously acting rotary wiper for laying the lasting margin of the tensioned stock inwardly over, and for pressing said lasting margin against, the bottom of the shoe, said gripper also being operable, while tensioning the stock, to exert stresses thereon tending to feed the shoe and to draw the lasting margin of the stock inwardly over the bottom of the shoe, and said shoe-bottom-engaging member being provided with a portion extending in a direction toward said wiper for preventing contact of the lasting margin with the bottom of the shoe prior to engagement by said wiper.

2,663,036
LASTING MACHINE
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 20, 1949, Serial No. 134,041
39 Claims. (Cl. 12—8.8)



6. In a lasting machine, upper-gripping means for applying a pull to an upper on a last in the course of a cycle of power operations of the machine, fluid-operated means for closing said upper-gripping means on the upper, a source of supply of operating fluid, a valve movable to admit fluid from said source to said fluid-operated means to close the upper-gripping means prior to the starting of the cycle of operations, another valve movable to cause the development of operating pressure at said source, a third valve movable to start the cycle of operations, three levers mounted to swing about the same axis and associated respectively with said different valves for thus operating them, a treadle lever also mounted to swing about said axis, means for operating two of said levers by one operative movement of said treadle lever to cause the closing of the upper-gripping means and the development of operating pressure, and means for operating the third lever to start the cycle of operations only in response to a second operative movement of said treadle lever after a reverse movement thereof.

14. In a lasting machine, upper-gripping means for applying a pull to an upper on a last in the course of a cycle of power operations of the machine, fluid-operated means for closing said upper-gripping means on the upper prior to the starting of the cycle of operations, a shoe-positioning device arranged to engage the bottom of the forepart of the shoe, a toe rest for clamping the shoe against said device, fluid-operated means for applying said toe rest to the shoe with comparatively light pressure simultaneously with the closing of said upper-gripping means on the upper, and additional fluid-operated means for causing the toe rest to press more firmly on the shoe after the starting of the cycle of operations.

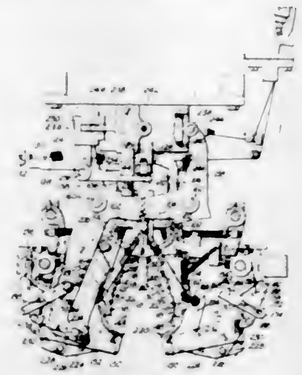
20. In a lasting machine, means for shaping an upper over a last in the course of a cycle of power operations of the machine, a heel rest for engaging the heel end of the shoe to assist in holding it against lengthwise displacement, a cylinder of comparatively small diameter, a fluid-operated piston in said cylinder for moving said heel rest lengthwise of the shoe into engagement therewith and for forcing it against the shoe with comparatively light pressure prior to the starting of the cycle of operations, another cylinder of greater diameter than said first-named cylinder, a member connected to the heel rest and mounted in said other cylinder to be moved lengthwise thereof as the heel rest is thus moved by said piston, and a fluid-operated piston in said other cylinder movable into engagement with said member after the starting of the cycle of operations to force the heel rest more firmly against the shoe.

25. In a lasting machine, the combination with wipers for wiping the margin of an upper around an end of a last inwardly over an insole on the last, of means for applying cement to the shoe for securing the margin of the upper to the insole, said cement-applying means including a cement-applying member mounted for movement heightwise of the shoe away from the insole by pressure of the wipers and the upper thereon in the wiping operation and arranged to engage the margin of the upper outspread over the wipers before said margin is withdrawn from between it and the wipers by continued movement of the wipers, a latch mounted to move bodily heightwise of the shoe with said member when the member is moved away from the insole by the wipers, and means relatively to which the latch is thus movable for engaging it to prevent reverse movement of said member into engagement with the wipers when the margin of the upper is thus withdrawn from between it and the wipers.

32. In a lasting machine, a toe former for wiping the toe end of an upper on a last heightwise of the last, said toe former comprising a pair of members curved to embrace the upper around the toe end of the last and mounted for swinging movements toward or from each other about an axis extending heightwise of the last, bell-crank levers supporting said members thus to swing about said axis either toward each other in response to pressure of the end of the toe thereon or away from each other in response to pressure of the sides of the toe thereon to permit them thus to adjust themselves to the upper and last, spring means controlling said bell-crank levers and yieldable in response to such swinging movements of the members either toward or from each other, and an adjusting device arranged to act through said spring means to adjust said members toward or from each other.

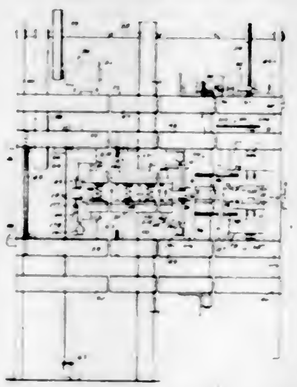
2,663,037
LASTING MACHINE
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application October 10, 1950, Serial No. 189,407. Divided and this application January 5, 1952, Serial No. 265,107
25 Claims. (Cl. 12—12)

11. In a lasting machine, means for wiping the marginal portion of the upper of a shoe on a last inwardly over the bottom of the last at the opposite sides of the ball portion of the shoe, said wiping means comprising at each side of the shoe a pair of wipers arranged to extend continuously one beyond the other along the side of the shoe and relatively movable lengthwise of the shoe while maintaining such continuity, means for moving the two pairs of wipers inwardly widthwise of the shoe with components of movement lengthwise of the shoe toward its toe end, a member arranged to engage the toe-end face of each shoe and mounted for movement by the shoe as the shoe is presented to the machine, and means adjustable by the movement of said member for limiting the component of movement lengthwise of the shoe of the wiper of each pair which is



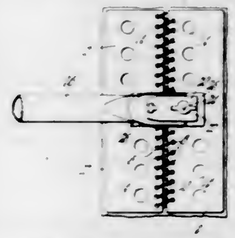
nearest to the toe end of the shoe independently of the movement of the other wiper of the pair.

2,663,038
MACHINE FOR MAKING BED SPRINGS
Charles H. Gail, Los Angeles, Calif., assignor to Spring Machinery Company, Los Angeles, Calif., a corporation of California
Application October 26, 1948, Serial No. 56,635
14 Claims. (Cl. 140—92.8)



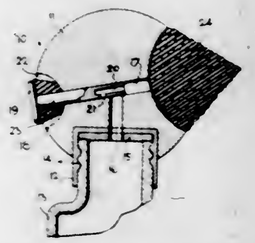
1. A machine for producing a bed spring formed of spring coils and helical connectors and including helical connector-advancing means, said machine comprising a frame, a plate part held in fixed position by the frame to support the spring coils for sliding movement therealong, two parallel movable members that coact with the plate part and each provided with coil-engaging means, the coil-engaging means on one movable member moving the coils to be attached and provided with an overstanding guide defining a path for the helical connector, means to reciprocate the parallel members toward and from each other and toward and from the plate part to engage and disengage the coil-engaging means of said members, and pneumatic means to lock the two members with their coil-engaging means together and while a helical connector is advanced to connect the coils and to unlock said members preparatory to movement of the members away from each other to disengage the coil-engaging means thereof from each other after the helical connector has connected the coils.

2,663,039
MOP HAVING HINGED BACKING PLATES FOR WRINGING
John F. Bagley, Jr., South Hadley, Mass., assignor to Stanley Home Products, Inc., Westfield, Mass., a corporation of Massachusetts
Application March 3, 1951, Serial No. 213,748
1 Claim. (Cl. 15—119)



A mop construction comprising in combination, a pair of elongated relatively rigid flat sheet metal plates having inner marginal longitudinal portions and upper and lower faces, a unitary flat flexible sponge mop member extending over and secured to the lower faces of said plates, said plates provided with openings of a certain diameter spaced along said inner marginal portions of the plates, an elongated wire member formed as a helix having convolutions thereof in said openings, said member having a diameter relatively less than said certain diameter of said openings whereby said convolutions are loosely disposed in said openings and said plates may swing on the convolutions of said member and towards one another for squeezing said mop member between lower faces of the plates and said plates may move longitudinally of one another in relative swinging thereof, and one of said plates provided with a portion extending upwardly from the upper face thereof for engagement by a mop handle device.

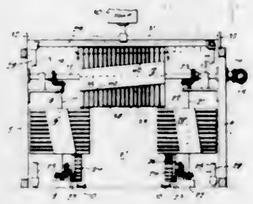
2,663,040
COMBINED CLOSURE AND APPLICATOR DEVICE
Frank Leckler, Forest Hills, N. Y.
Application December 30, 1949, Serial No. 135,900
3 Claims. (Cl. 15—138)



3. A closure and applicator device for liquid containers comprising, a body having means for attaching it to the outlet of a container, a passage extending through the body and having one end in communication with the outlet of the container, the body having a recess located at the other end of the passage, an applicator of absorbing material secured in said recess and covering the latter end of the passage, a slidable valve operative in the passage between the ends thereof and having means for establishing communication between said passage and the outlet of the container, one end of the valve being exposed

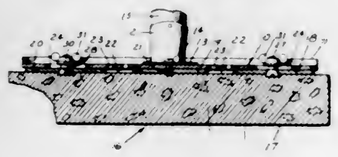
on the outside of the body, the body having a recess around said exposed end of the valve, a compressible, absorbent sponge secured in said recess and surrounding the exposed end of the valve and through which the valve is slidable, said sponge serving as a spring means for holding said valve in closed position and serving also as an absorbent wiper for the part of the valve that is slidable through it.

2,663,041
FLEXIBLE CLEANER FOR CAR WASHING MACHINES
Jiustino Rende, New Rochelle, N. Y.
Application March 12, 1948, Serial No. 14,581
7 Claims. (Cl. 15—230)



1. A cleaner comprising a shaft, a flexible flat sheet fixed on said shaft along a longitudinal line, an edge of said sheet being substantially parallel to the axis of said shaft, said sheet having a series of substantially transverse slits in said edge, successive slits being of increased depth, whereby a series of tongues of increasing length are provided, said sheet extending similarly from the opposite side of said shaft and having therein a similar series of substantially transverse slits, the latter being of decreasing depth so that the shorter of the tongues so formed are opposite the longer tongues of the first mentioned edge.

2,663,042
SELF-ADJUSTING MOPHEAD
William H. Richards and William F. Richards, Rehoboth, Del.
Application February 26, 1952, Serial No. 273,458
6 Claims. (Cl. 15—244)



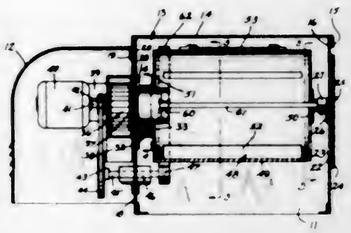
3. A mop comprising an absorbent pad which is soft and pliable when wet and stiff and subject to substantial shrinkage when dry, a substantially rigid backing plate arranged adjacent to a side of the pad and fixedly secured thereto over a portion only of said side, the backing plate having a slot formed therein adjacent to a portion of the pad free from attachment to the backing plate, a slide plate fixedly secured to said side of the pad and arranged between the pad and backing plate adjacent to said slot, and a connecting element fixedly secured to the slide plate and extending into the slot of the backing plate and adapted to be guided thereby so that the slide plate can slide upon the backing plate in one direction for a substantial distance when shrinking of the pad occurs.

2,663,043
ADJUSTABLE WIPING BLADE
John R. Oishei, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application December 3, 1949, Serial No. 130,894
14 Claims. (Cl. 15—245)



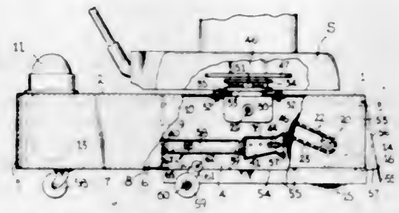
1. A windshield wiper comprising an elongate squeegee element having a wiping edge along one longitudinal margin, an extensible holder having longitudinally alined and relatively adjustable sections engaged with the opposite margin of the element to give support to the wiping edge thereof, a support for the holder having a seat receiving the adjacent ends of the sections to give support thereto, said adjacent ends having contacting portions with coplanar faces providing a continuous supporting surface through the seat to enable the extensible holder giving sustaining support to the wiping edge of the squeegee element throughout its length, actuating arm attaching means on the support at longitudinally spaced points along said support adjacent the ends of the latter across the seating areas of the holder sections therein.

2,663,044
ERASER CLEANING MACHINE
Charles L. Gilbert, Spokane, Wash., assignor to Donald Black, Spokane, Wash.
Application October 9, 1951, Serial No. 250,499
1 Claim. (Cl. 15—305)



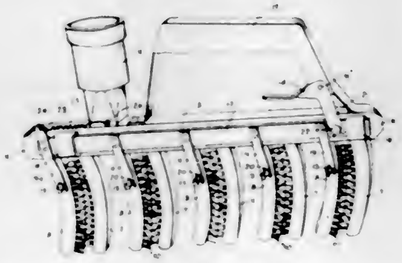
An eraser cleaner comprising an open top housing having a closure therefor and including opposed walls, an air ingress opening in one of said walls, an air egress opening in the opposed wall, a motor driven fan supported externally of the housing on said second named wall and adapted to draw air through said air egress opening, a cylindrical journal within said housing and registering with said air egress opening, an air seal about said air egress opening for sealing said opening and journal against leakage, a leather wear ring riveted about said journal, a pair of spaced rollers carried by said second named wall and cooperating with said wear ring to rotatably support said journal, a spider in said journal, a shaft supported at one end in said spider, a bearing on said one wall and rotatably supporting the opposed end of said shaft, an eraser tumbling drum including a foraminous head secured to the shaft adjacent said bearing and an end wall opposed to said head and secured about said journal, whereby said journal communicates with said drum, and means for revolving said drum.

2,663,045
PORTABLE BRUSHING AND NAP-RAISING ATTACHMENT FOR CARPET CLEANING MACHINES
Joseph D. Conway, Cleveland Heights, Ohio
Application March 4, 1950, Serial No. 147,603
6 Claims. (Cl. 15—328)



1. The combination of a nap-raising attachment for carpet cleaning machines and an operating mechanism therefor; said operating mechanism consisting of a housing, an operating handle provided on said housing, an electrical motor mounted within said housing, a vertical spindle extending from said motor, and a connector plate secured to said spindle for rotation in a horizontal plane, said connector plate being adapted to operatively engage a rotary carpet cleaning element; and said nap-raising attachment comprising a housing, a brush supported in said housing for rotation about an axis at right angles to the axis of rotation of said motor spindle, a gear box secured to said housing and operatively connected to said brush, and a coupling plate operatively secured to said gear box; said coupling plate being releasably secured to said connector plate to transmit rotary movement from said motor to said gear box, and said operating mechanism being supported above ground level by the housing of said nap-raising attachment.

2,663,046
DEVICE FOR CLEANING VENETIAN BLINDS
Albert C. Geguen, West Newton, Mass.
Application April 8, 1949, Serial No. 86,266
4 Claims. (Cl. 15—394)



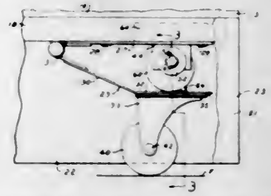
4. A device for cleaning Venetian blind slats comprising an elongated body, a plurality of fixed arms extending laterally from said body in spaced apart relation, a plurality of movable arms pivotally mounted to said body adjacent to said fixed arms and movable towards and from said fixed arms, said fixed and movable arms being curved in a longitudinal direction, bristles projecting from the confronting faces of said fixed and movable arms, a connecting bar slidably mounted on said body having connection with each of said movable arms, and means for sliding said bar to move said movable arms towards and from said fixed arms.

2,663,047
POWER TRANSMITTING DEVICE FOR OVERHEAD GARAGE DOORS
James H. Grenzeback, Los Angeles, Calif.
Application December 20, 1949, Serial No. 134,012
2 Claims. (Cl. 16—1)



1. In a power transmitting means for an overhead garage door construction guided at its upper end by virtually horizontal track means, the combination of: a flat member provided with means for pivotally mounting a door to be raised upon an axis parallel to the plane of the door and opposite the central portion of the door when in vertical position; a lifting arm having one end adapted to be pivotally connected to the door and having the other end rigidly connected to said member; said member having a contoured edge provided with convex and concave portions spaced at varying distances from the pivotal axis; a flexible element including spaced parallel links and pins connecting said links, said pins contacting the contoured edge at spaced points, the portion of said edge between the spaced points being accommodated between the spaced links; means for adjustably connecting one end of the flexible element along the edge of the member; spring means connected to the other end of the flexible element; means for connecting the spring means to the track means; said member and said spring means being cooperable for counterbalancing the weight of the door by the varying leverages made available by spaced contact of the flexible element with the edge of said member; the adjustable connection of the flexible element to the member being adapted to vary the points of spaced contact of the pins with the contoured edge for modifying the magnitude of counterbalancing forces effective during opening and closing of the door.

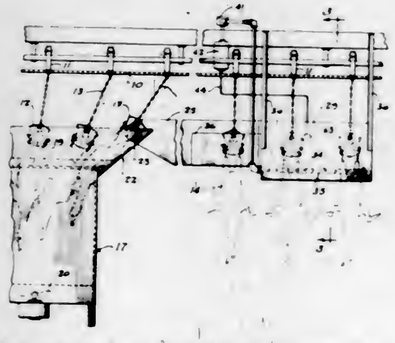
2,663,048
ARTICLE ELEVATING CASTER MOUNTING
Robert G. Ross, Jr., and John P. Ross, Charlotte, N. C.
Application March 19, 1951, Serial No. 216,409
7 Claims. (Cl. 16—34)



6. An improved caster unit for an article of furniture and the like having a bottom and legs

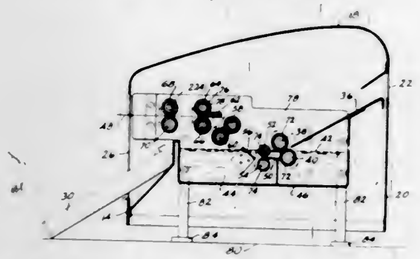
supporting the bottom in spaced relation to the surface on which the article rests comprising a pair of hinged plates, one of said plates being adapted to be secured to the bottom of said article and the other of said plates having caster rollers mounted thereon, a cam shaft supported for rotation by one of said plates and at least one eccentric cam on said cam shaft having its periphery in engagement with the other of said plates during at least a portion of its rotation whereby rotation of said cam shaft will cause said plates to move apart from each other or to allow said plates to move toward each other to raise or lower said article relative to its supporting surface.

2,663,049
POULTRY PROCESSING METHOD
Delos B. Van Dolah, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois
Application April 22, 1950, Serial No. 157,421
5 Claims. (Cl. 17—45)



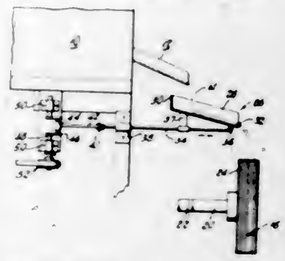
1. The method of processing poultry for the picking of the feathers including the steps of immersing the poultry in a heated liquid for a sufficient length of time to loosen the body feathers, and subjecting the lower portions of the legs to additional heat.

2,663,050
RECORD APPARATUS AND METHOD
Charles W. Helm, Jr., Rocky Hill, Conn., assignor to The Gray Manufacturing Company, a corporation of Connecticut
Application July 30, 1951, Serial No. 239,341
13 Claims. (Cl. 18—1)



8. Apparatus for resurfacing a grooved flexible thermoplastic sound record comprising a frame, a liquid tank supported by said frame, means for heating liquid in said tank, liquid temperature responsive means controlling said heating means, a record surface heater roll supported by said frame beyond said tank for plasticizing a record to a limited depth less than its thickness, temperature responsive means controlling the temperature of said heater roll, feed rolls carried by said frame for advancing a record through said tank to said heater roll, and driving means connected with said rolls.

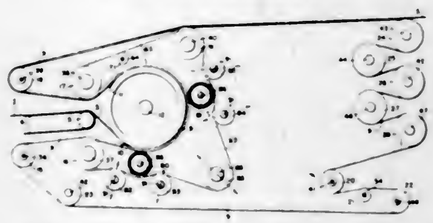
2,663,051
METHOD AND APPARATUS FOR FIBERIZING MINERAL MATERIALS
Bruce Andrew Graybeal, Conowingo, Md., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application January 24, 1951, Serial No. 207,631
5 Claims. (Cl. 18—2.6)



1. In an apparatus for converting a molten raw material into fibers, first means for discharging a stream of said material, a rotor having an axis of rotation and a peripheral surface, said peripheral surface being positioned to intercept said stream, and second means for imparting a reciprocatory motion to said first means in a direction generally parallel to said axis of rotation, whereby said stream repeatedly traverses and is distributed over the width of said peripheral surface.

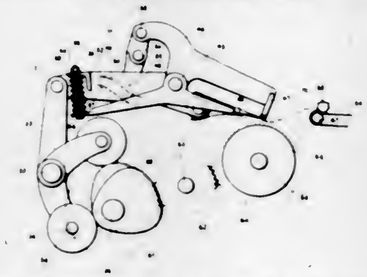
4. In a method of forming fibers from a molten raw material, discharging a stream of said material and imparting an oscillatory motion thereto to form an oscillating stream, positioning a rotor with its axis of rotation extending in a direction generally parallel to the direction of oscillation of said stream, and intercepting said oscillating stream on the peripheral surface of said rotor.

2,663,052
CONTINUOUS TREATING APPARATUS
Albert Goulding, Jr., Cuyahoga Falls, and Michael Jukich, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application September 27, 1951, Serial No. 248,518
5 Claims. (Cl. 18—6)



1. In continuous apparatus for the treatment of plastic and rubber material of indeterminate length embodying a drum and an endless band encompassing a major portion of the periphery of the drum and subjecting said material to uniform pressure as it is passed between the drum and the band, means for adjustably controlling the pressure exerted upon the material by the band comprising an endless pressure element; means supporting and guiding the pressure element in such fashion that a portion thereof is disposed in contact with that part of the endless band which encompasses the drum; at least one member disposed transversely of the endless band for contact with the above-mentioned portion of the pressure element; and means urging a portion of the pressure element against the member.

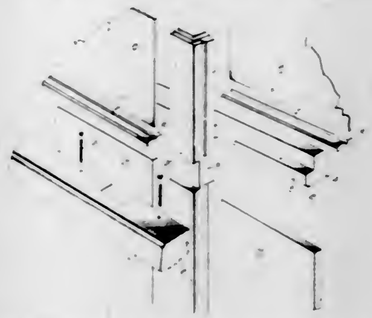
2,663,053
RECTILINEAR COMBING MACHINE FOR WORKING TEXTILE FIBERS, FOUNDED ON THE HEILMANN PRINCIPLE
Carlo Schleifer, Milan, Italy
Application April 20, 1950, Serial No. 157,047
Claims priority, application Italy April 28, 1949
3 Claims. (Cl. 19—116)



1. In a mechanism for imparting rectilinear motion to the nippers in a combing machine having a frame with a comb rotatably mounted therein, a carriage lever mounting the nippers above said rotatable comb and having a roller on its end adjacent the rotatable comb, a cam surface on the frame of the machine over which said roller is adapted to move, a control lever pivoted on said frame and pivotally connected to the other end of said carriage lever, means on said frame for oscillating the control lever, a first double armed lever pivotally mounted on said carriage lever intermediate the ends of the latter and supporting at one end one of the nipper jaws over said rotatable comb, a second double armed lever pivotally mounted on said carriage lever also intermediate the ends of the latter and carrying the other nipper jaw in cooperative relationship with the first nipper jaw, a compression spring mounted between the other end of the first double armed lever and the carriage lever and biasing the nipper jaws into engagement, a bell crank lever pivotally mounted on said carriage lever and having one arm pivotally connected to the other end of the second double armed lever, and means cooperating with the other end of said bell crank lever whereby during motion of the carriage lever away from the axis of the rotatable comb said bell crank lever will open the nipper jaws and during motion of said carriage lever in the opposite direction said bell crank lever will force the nipper jaws closed.

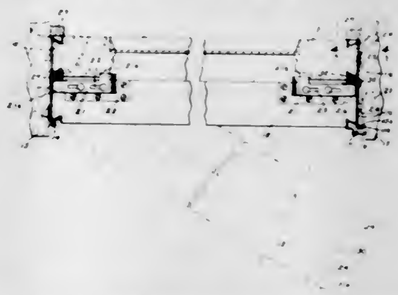
2,663,054
PARTITION STRUCTURE
Ferdinand J. Horil, Jr., New Orleans, La.
Application April 10, 1950, Serial No. 154,963
2 Claims. (Cl. 20—4)

1. Partition structure comprising, a plurality of spaced vertical posts of rectangular cross-section, each post having horizontally aligned and horizontally disposed grooves on opposite faces, the grooves of all the posts being horizontally aligned when the posts are in erected position, the confronting faces of the posts being longitudinally grooved medially above and below the plane of the horizontal grooves, a plurality of panels one between each pair of posts and having its side edges in the lower longitudinal grooves of adjacent posts, a horizontal rail vertically divided into complementary sections with the meeting faces stepped transversely to opposite sides of the vertical medial plane of the composite rail, at least one of said sections being rabbeted along its lower inner edge whereby a



groove is formed in the lower face of the rail when the sections of the rail are together, the groove in the rail being in the same vertical plane as the longitudinal grooves in the posts to receive the upper edges of the panels, said rail sections being notched on their inner faces to receive and surround said posts when the rail sections are fitted within the horizontal grooves in said posts, securing means passing vertically through the overlapping portions of the stepped joint in said rail to secure the sections of the rail together, and cover strips on top of said rail extending between said posts to cover the line of juncture between the sections of said rail and the securing means for said rail.

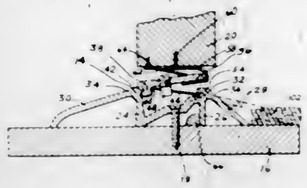
2,663,055
WINDOW CONSTRUCTION
William Marcus, Cleveland, Ohio
Application January 9, 1948, Serial No. 1,303
1 Claim. (Cl. 20—51)



In window construction, the combination consisting solely of a fixed frame having parallel vertical sides, two parallel vertically extending guides each providing inner and outer vertical runways, two vertically movable sashes, one sash in each of said runways, said sashes having horizontally interlocking and vertically slidable con-

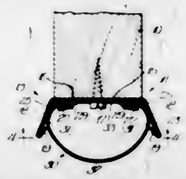
nections with each of said guides, said horizontally interlocking connections being capable of endwise slidable assembly of said sash on said guides, each of said guides having an intermediate portion movable relative to said frame and having top and bottom portions fixed relative to said frame, said intermediate portions of said guides being longer than the height of one sash, and means mounting said sashes and said two movable guide portions as a unit for movement out of said frame.

2,663,056
WEATHERSTRIP
Walter H. Hardgrave, Albuquerque, N. Mex.
Application September 27, 1950, Serial No. 187,059
10 Claims. (Cl. 20—66)



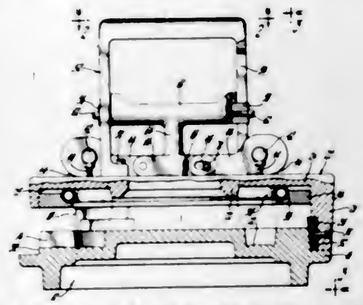
1. A device of the character described including a stationary body portion having leg portions which contact the sill of a door and also having slanting flange members which also contact the sill of a door, said stationary body portion also having a web member having slanting and horizontal portions running between said legs on said stationary body portion, a movable cap member comprising a generally rectangular strip having at one side thereof a downwardly extending longitudinal rib which normally engages a flange on said stationary body member thus providing a hinge pivot around which the movable cap member may revolve, means carried by the door whereby said movable cap member is raised and interlocked with said means when said door is in closed position, said movable cap member being flush with said stationary body portion when said door is open, and latching means whereby said movable cap member is normally held on said stationary body member and providing means whereby said movable cap member may be removed from said stationary body portion for cleaning and the like, said latching means being carried by said movable cap member and engaging one side of said stationary body portion when said movable cap portion is connected to said stationary body portion.

2,663,057
SEALING MEANS FOR DOOR BOTTOMS
Ralph E. Uphoff, Madison, Wis.
Application March 25, 1949, Serial No. 83,377
14 Claims. (Cl. 20—69)



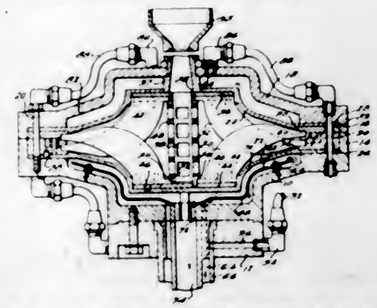
1. Sealing means for the bottom of a door comprising, in combination, a sheet of rubber-like material for extending along the bottom of the door with its edges turned inwardly and its intermediate portion arched downwardly to engage a threshold or floor with a rolling action, means for securing the edges of said sheet to said door, and outwardly and downwardly flared flange means for extending along the inner and outer edges of said door and overlying and simultaneously engaging both of the juxtaposed portions of said intermediate portion of said sheet so that the inside of said flange means on the side away from the direction in which the door is moved from one position to another is engaged while the inside of the other flange means is disengaged.

2,663,058
CORE LIFTING AND SETTING FIXTURE
Marshall E. Lentz and Arthur J. Anderson, Bedford, Ind., and Hubert L. Driffill, deceased, late of Anderson, Ind., by Cleaon Wantland, executrix, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 6, 1951, Serial No. 219,724
14 Claims. (Cl. 22—37)



3. A device of the class described for lifting a circularly arranged series of articles having an inner peripheral surface and an outer peripheral surface, comprising a member having a downwardly depending flange for engaging one of said peripheral surfaces of said circularly arranged series of articles, a hollow, collapsible rubber hose surrounding the other of said peripheral surfaces of said circularly arranged series of articles, and means for deforming said hose to contact said other peripheral surface and grip the circularly arranged series between the flange and said hose.

2,663,059
CENTRIFUGAL MOLD AND CORE
Raymond J. Miller, Detroit, Mich.
Original application July 20, 1945, Serial No. 606,089. Divided and this application July 6, 1950, Serial No. 172,228
2 Claims. (Cl. 22—113.5)



1. In a mold structure, an inner housing having an opening, an indexing ring adjacent the

opening, an indexing ring adjacent the periphery of the housing, a series of core elements supported on the indexing rings within the housing, a sprue having parts embracing the indexing ring adjacent the opening and another part bearing against the core elements, and a feeding tube extended through the opening and positioned to discharge into the sprue.

2,663,060
COLLAR FASTENER AND TIE CLASP
Eugene Harrow, Philadelphia, Pa., assignor of forty per cent to George N. Calhoun, Philadelphia, Pa.
Application April 15, 1950, Serial No. 156,130
2 Claims. (Cl. 24—49)



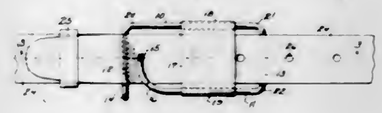
1. In a magnetic collar fastener, a bar having a central embossment and formed with a magnetic element at each end thereof, a pair of clasp arms each of which is hingedly connected to said bar at said embossment, a magnetic element on the free end of each clasp arm, the magnetic elements on one end of said bar and the end of the clasp arm located thereat being complemental, with one of them a permanent magnet and the other an armature therefor, and an elongated projection on said central embossment, a pre-tied tie having a plate formed with a slot adapted to receive said projection, said projection and said plate being complemental magnetic elements with one of them a permanent magnet and the other an armature therefor.

2,663,061
TIRE BEAD LOCK CLIP
Charles E. Zarth, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application August 18, 1950, Serial No. 180,140
2 Claims. (Cl. 24—81)



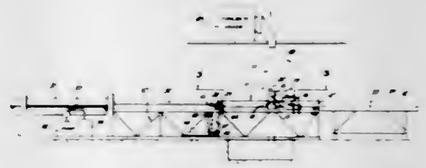
1. A tire bead lock clip for use in combination with a tire and rim assembly, said clip comprising a strip of resilient material having a radially outwardly rolled end portion at the inner end, a flat portion extending transversely from said rolled end portion, a third portion extending radially outwardly from said flat portion and then curved laterally, said last named radially outward portion being formed with lateral barbs, and said third portion terminating in a radially inwardly extending rolled end portion, said first-mentioned rolled end portion engaging a portion of the tire adjacent the rim and said second-mentioned rolled end portion engaging a portion of the rim adjacent the tire.

2,663,062
MECHANICAL BELT BUCKLE
Joe Abel, Ponca City, Okla.
Application October 24, 1951, Serial No. 252,816
4 Claims. (Cl. 24—163)



1. A belt buckle comprising parallel side members connected at one of the ends thereof with an end member and having an end member extended from a side member at the end thereof opposite to that on which the former end member is positioned for receiving a loop on the end of a belt, and having a projection on the other of said side members positioned to extend into an opening in a belt on which the buckle is mounted, and a transversely positioned plate slidably mounted on the said side members so that upon sliding movement of said plate said plate will force the belt into engagement with said first mentioned end member to retain the belt in position in the buckle.

2,663,063
MOLDING MACHINE AND METHOD OF MOLDING
Herbert A. Van Loon, Bishop, Calif., assignor of one-half to Donald R. Smith, Altadena, Calif.
Application March 28, 1947, Serial No. 737,748
4 Claims. (Cl. 25—41)

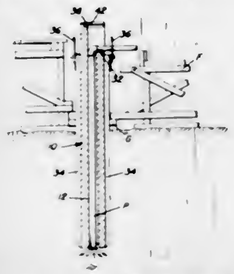


1. The method of making cored molded objects which consists of positioning cores in a mold, placing a self-hardening material in the mold about the cores, withdrawing the cores from the mold while leaving the self-hardening material therein, interposing a presser plate between the cores and the molded material, and re-introducing the cores into the mold to return the cores to the mold and simultaneously expel the molded contents from the mold.

2,663,064
APPARATUS FOR CONSTRUCTING SEA WALLS
Edgar H. Latham, Jr., Palm Beach, Fla.
Application August 18, 1952, Serial No. 304,869
3 Claims. (Cl. 25—118)

1. Apparatus for constructing retaining walls, said apparatus consisting of a plurality of vertical cores, a pair of spaced parallel liners engaging opposite walls of the cores, and means attached to the cores removably engaging the upper ends of the liners, whereby a core and its liner may be driven into the ground and whereby

the cores may be lifted from the liners, said cores having side openings in their upper ends adapted



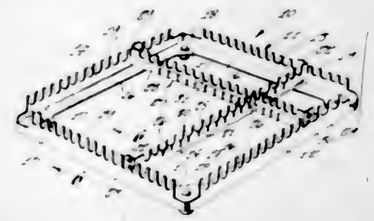
to accommodate the discharge chute of a concrete filled hopper.

2,663,065
BARBED FELTING NEEDLE FOR USE IN NEEDLE LOOMS OR INTERLACING MACHINES
Alfred Thomas Dinham, Crabbs Cross, Redditch, England, assignor to Needle Industries Limited, Birmingham, England, a British company and William Bywater Limited, Leeds, England, a British company
Application November 26, 1951, Serial No. 258,252
Claims priority, application Great Britain November 28, 1950
4 Claims. (Cl. 28—4)



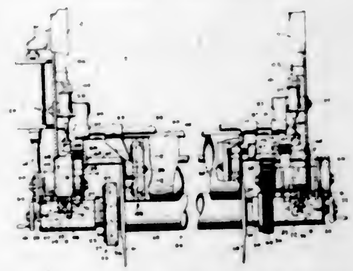
1. A barbed felting needle comprising an intermediate shank portion of uniform cross-section along its length, a barbed lower shank portion at the lower end of the intermediate shank portion and said barbed lower shank portion having a cross-sectional area not significantly less than the cross-sectional area of the intermediate shank portion and the barbs projecting outwardly from the body of said barbed lower shank portion so that the overall cross-sectional dimensions of said barbed lower shank portion are greater than the overall cross-sectional dimensions of the intermediate shank portion, a pointed end portion at the lower end of the barbed lower shank portion, an upper shank portion composed of a continuation of the intermediate shank portion and a doubled back portion said continuation and doubled back portion being juxtaposed and parallel to provide the upper shank portion the overall cross-sectional dimensions of which are at least as great as the overall cross-sectional dimensions of the barbed lower shank portion, and a connecting portion extending transversely to the length of the remainder of the needle and extending between the upper ends of the continuation and doubled back portion to provide a head.

2,663,066
ALL HAND WEAVING ADJUSTABLE LOOM
Daniel A. Berger and Gerard S. Berger, Brooklyn, N. Y.
Application February 5, 1953, Serial No. 335,252
5 Claims. (Cl. 28—15)



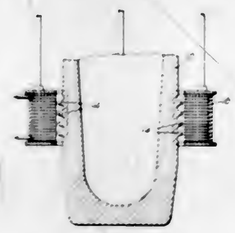
1. An adjustable weaving loom comprising a rectangular frame having four side bars, each of said bars having upwardly extending teeth adapted to cooperate with each other to receive the warp and woof threads during weaving, a first cross piece having upwardly extending teeth adapted to cooperate with said side bar teeth and adapted to fit in between oppositely disposed side bars, means for releasably securing said first cross piece in said position, and a second cross piece having upwardly extending teeth adapted to cooperate with said side bar teeth and adapted to fit in between oppositely disposed side bars, second means for releasably securing said second cross piece in said position, said first and second cross pieces being adapted to mesh with each other at substantially right angles.

2,663,067
APPARATUS FOR WINDING
Robert H. Roughsedge, Ramsey, and Arthur Meder, Carlstadt, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
Application May 19, 1949, Serial No. 94,118
5 Claims. (Cl. 28—38)



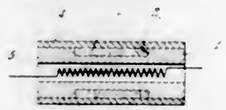
1. Textile apparatus wherein the warp of yarns is wound onto a warp beam, comprising means for supporting said warp beam, means including a train of gears and fluid operated means for moving said gears to raise and lower said warp beam supporting means to and from the winding position of said warp beam, means for locking said warp beam in said winding position, a press roll adapted to operate against said warp beam for pressing the yarn windings thereon, and fluid operated means, operatively separate from said means for raising and lowering said warp beam, for moving said press roll toward said warp beam at a predetermined speed and for causing said press roll to effect a continuous and constant pressure on the yarn windings on said warp beam.

2,663,068
METHOD OF COLD EXTRUDING A PROJECTILE WITH A ROTATING BAND
Harold G. Towner, Arlington, Va.
Application December 14, 1948, Serial No. 65,262
5 Claims. (Cl. 29—1.2)
(Granted under Title 35, U. S. Code (1952), sec. 266)



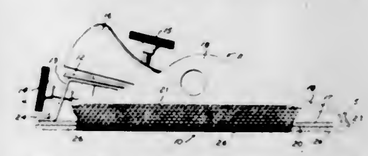
4. The method of producing a projectile for a rifled gun from a low-carbon steel blank comprising the steps of forming said blank by cold extrusion into a hollow projectile having circumferentially outstanding rotating band means for cooperation with the rifling of the gun, and heating only the area of said band means to a predetermined depth, to anneal the same.

2,663,069
METHOD OF MAKING INCANDESCENT CATHODES
George A. Espersen, Dobbs Ferry, N. Y., assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y.
Application July 20, 1951, Serial No. 237,695
9 Claims. (Cl. 29—25.14)



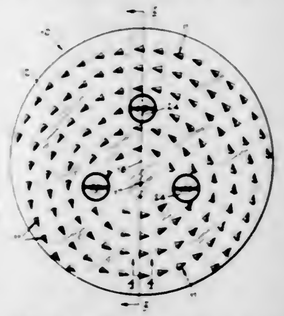
1. A method of manufacturing a cathode of the dispenser type comprising the steps of forming particles of a refractory metal under pressure into a hollow body open at one end thereof, presintering the so-formed body at a temperature high enough to impart sufficient mechanical strength thereto to make said body self-supporting, forming a second body of a material having a higher volumetric coefficient of expansion than the refractory metal, said second body having a shape adapted to fit into the open end of said first body and forming an internal cavity therewith for containing a supply of alkaline earth metal compound, inserting said second body into said first body, and heating said first and second bodies to a temperature higher than the temperature at which said first body was presintered to tightly close the internal cavity by internally expanding the second body to a greater extent than the first body.

2,663,070
PLANE FILE SHOE ATTACHMENT
James G. Bennett, North Bend, Wash.
Application May 6, 1950, Serial No. 160,521
2 Claims. (Cl. 29—78)



1. A unitary file shoe attachment for a plane, said file shoe attachment comprising a substantially rectangular metal sheet, upstanding side walls extending along the long edges of said substantially rectangular metal sheet, said side walls being integrally attached to said bottom wall by rounded edges, a serrated file surface cut into the bottom surface of said rectangular sheet, said serrated file surface extending about said integral rounded edge and up the outer surfaces of said side walls, and means for detachably attaching said shoe to a plane.

2,663,071
ABRASIVE TOOL
George F. Ritter, Toledo, Ohio
Application January 13, 1951, Serial No. 205,935
2 Claims. (Cl. 29—78)



1. A disc shaped abrading tool having a work face, and rasp-type teeth rising from said face at intervals not materially less than twice the length of one of said teeth to provide a skip-tooth effect and arranged in a pattern of substantially concentric circles about a point offset from the center of said disc.

2,663,072
PROCESS FOR JOINING SHEET METAL OR THE LIKE
Josef Pfistershammer, Vienna, Austria
Application March 16, 1949, Serial No. 81,783
2 Claims. (Cl. 29—148)



1. The process of joining two sheet metal sheets, which comprises the steps of cutting into each sheet within its contour and near one of

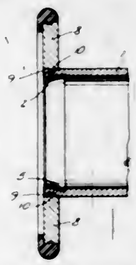
its edges a row of tongue-forming cuts, the cuts being substantially of the shape of three sides of a rectangle with the longest cut side opposite the tongue foot and transverse to said edge, the cuts in each sheet being alternately to the left and to the right of the tongue foot; bending the tongues of each sheet approximately at a right angle away from the sheet surface to be engaged by the other sheet thus forming respective openings adjacent to said tongues and of the same contour as said tongues, the tongues thus formed on each sheet projecting from the sheet a distance only slightly greater than the thickness of the adjacent sheet; overlapping the two sheets and placing the tongues of each sheet into the openings of the other sheet; and applying upsetting force to the ends of the tongues in a direction substantially perpendicular to the sheet surface to rivet the tongues of each sheet in the openings of the other sheet.

2,663,073

METHOD OF FORMING SPOOLS

Frederick J. Bieber and Lyle E. Overholt, Minneapolis, Minn., assignors to Acrometal Products, Inc., Minneapolis, Minn., a corporation of Minnesota

Application March 19, 1952, Serial No. 277,512
3 Claims. (Cl. 29—148)



1. The method of forming a spool which comprises forming circumferentially-extended channels in the outer surface of a cylindrical drum-forming element in closely spaced relation to the opposite ends thereof, counterboring said opposite ends of said drum-forming element whereby to form annular shoulders axially inwardly-spaced from said channels, providing flange-forming elements with central openings having maximum diameters corresponding to the external diameter of said drum-forming element and central radially inwardly-projecting circumferentially-extended ribs corresponding in width and depth to the channels in said drum-forming element, deforming the opposite ends of said drum-forming element whereby to uniformly reduce the diameters thereof axially outwardly of the inner walls of said channels to diameters slightly less than the diameters of said ribs, placing said flange-forming elements over said reduced ends with the ribs thereof in engagement with the inner walls of said channels, thereafter expanding said opposite outer ends to their normal diameters to lock said ribs in said channels, forming a pair of annular bearing members having enlarged heads capable of being snugly received within the counterbored opposite ends of said drum-forming element and reduced inner end portions, the overall axial length of said bearing members being considerably less than half the length of said drum-forming element, placing within said drum-forming element a tubular sleeve having an internal diameter approximating that of the external diameter of the reduced portions of said bearing members, inserting said bearing members into the opposite ends of said drum-forming element whereby to cause the reduced end portions thereof to be telescopically received within said sleeve and to cause the enlarged heads to be received within said counterbored portions in engagement with the shoulders thereof, and thereafter creating locking engagement between said bearing members and said drum-forming element.

2,663,074

CLOTH ATTACHING DEVICE FOR IRONER ROLLS

Louis J. Schultheis, Pittsburgh, Pa., assignor to Pittsburgh Waterproof Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 6, 1952, Serial No. 275,110
1 Claim. (Cl. 29—148.4)



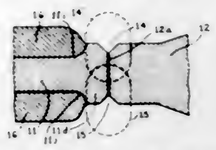
The method of connecting a lead cloth to an ironer roll, which comprises forming a row of holes along an axial line in the peripheral surface of the roll, forming a cloth-holding strip of bendable material and having a curvature that is originally of shorter radius than the radius of the roll, with a row of tangentially-extending teeth alined axially thereof, and also having holes aligned along its longitudinal axis, applying the strip to the roll, in parallelism with the axis of the roll, driving headed studs through the holes of the strip and into tight-fitting engagement with the holes in the roll, to such depth that the strip is held across its entire width in snug engagement with the underlying peripheral area of the roll, impaling the lead cloth on the teeth and flattening the teeth to approximately the contour of the strip.

2,663,075

METHOD OF WELDING TURBINE ROTORS

George Edwin Linnert, Baltimore, Md., assignor to Armco Steel Corporation, a corporation of Ohio

Application January 14, 1948, Serial No. 2,216
3 Claims. (Cl. 29—360)



1. In a method of welding turbine elements so as to avert incipient cracking between the same, the art which includes providing a support for turbine blades, disposing along said support to the approximate relative positions desired a plurality of blades having base portions of such size as to be consumed in welding and having a generally convex bottom surface and having profile curved surfaces defining the transition from main blade portion to base portion and providing a rounded surface extending from the back of one blade to the face of the adjacent blade, blocking off the outermost limits of fayed edges of said blades themselves in the desired zones of welding, and forming welded joints between the blades themselves and between blades and support by fusing the generally convex bottom surfaces of the blade bases while depositing weld metal to fill the spaces between adjacent blade bases and between the bottom surfaces of the blade bases and the support so as to fuse together and eliminate the fayed edges, the profile of the weld being such as to match that of the blades.

2,663,076

CAN TOP PIERCING TOOL FOR OPENING AND VENTING IN ONE OPERATION

Ralph Robinson, Wauwatosa, Wis., assignor to Milwaukee Stamping Company, West Allis, Wis., a corporation of Wisconsin

Application November 19, 1949, Serial No. 128,376
8 Claims. (Cl. 30—6.1)



2. A tool of the character described comprising a handle and a head wider than the handle, a first piercing prong connected to the head and a second piercing prong connected to the head at opposite sides of the first mentioned piercing prong, the connections of the said second piercing prong comprising bifurcated legs having margins mutually adjacent to the margins of the first piercing prong.

2,663,077

CAN OPENER

William J. Fortune, Elkhart, and Charles T. Fortune, Grimes, Iowa

Application May 21, 1952, Serial No. 289,072
3 Claims. (Cl. 30—6.1)



1. In a can opener, a frame, a means secured to said frame for mounting it on a supporting member in a vertical position, a lever hingedly secured to said frame, a cutter rigidly secured to said lever, a can supporting means secured to said frame and extending therefrom in a horizontal position and under a vertical projection of said lever, and a can stop secured to said frame and extending over said can supporting means near its effective edge; whereby said can stop engages the rim and side of a can resting on said can supporting means to hold said can near its top against vertical movement and lateral movement in the direction of said frame; said can stop being positioned below the hinge point of said lever and laterally between the hinge point of said lever and the said cutter secured to said lever.

2,663,078

SAFETY RAZOR

Jay T. Hellmann, Chicago, Ill.

Application February 2, 1951, Serial No. 209,128
2 Claims. (Cl. 30—34)



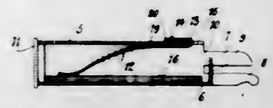
1. In a safety razor, a handle, a base arranged adjacent said handle, there being a longitudinally extending bore arranged in said handle, said base being provided with an opening for registering with the bore in said handle, a cylindrical stem projecting into said bore and detachably connected to said handle, and a guard plate having a sleeve detachably connected to the other end of said stem, said plate and base adapted to hold therebetween a razor blade, there being windows arranged in said plate for observing the razor blade, and spaced, parallel pointed shoulders projecting from said base for supporting the razor blade, said clamping plate being provided with curved ribs of different sizes, the free edges of said ribs being positioned inwardly of said shoulders, said sleeve maintaining the central portion of said plate spaced away from said base.

2,663,079

RECEPTACLE FOR SAFETY RAZOR BLADES

Kenneth B. Peterson, Brooklyn, N. Y.

Application March 2, 1951, Serial No. 213,552
1 Claim. (Cl. 30—40)



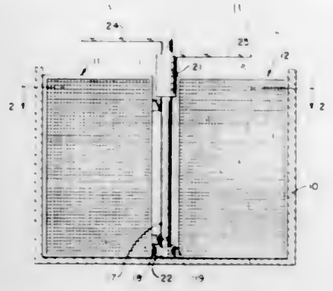
A collection receptacle for safety razor blades comprising, a casing of a shape to accommodate a number of razor blades, said casing having an open rear end normally closed by a removable closure cap, a cap closing said rear end, the casing having a slot-opening at its forward end, and means for detachably coupling the casing to the outlet end of a razor in a position to locate the slot-opening in alignment with a blade seated on the razor, whereby an ejection of said blade from the razor will direct the same through the slot-opening and into the casing, spring means under which each blade is inserted as it enters the casing, the casing being attached to the razor in a manner to permit the blades to be inserted in the casing while the head of the razor is disposed uppermost.

2,663,080
AUTOMATIC BLADE HOLDING RAZOR
Ernest T. Yonamine, Honolulu, Territory of Hawaii
Application October 29, 1951, Serial No. 253,578
5 Claims. (Cl. 30—40)



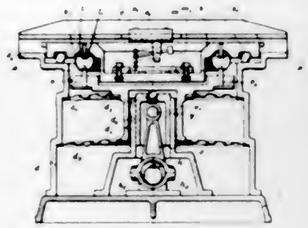
1. A blade changing razor comprising a housing, a magazine in said housing, blades in said magazine and a resilient means urging said blades upwardly, an elongated member secured on the top of said magazine and having a portion extending beyond one edge thereof constituting a shaving ledge, said elongated member having a recess therein above said magazine for receiving a blade urged thereinto, an ejector plate slidable in said elongated member and adapted to push a blade from said recess onto said shaving ledge, and means for releasably retaining a blade on said shaving ledge, said magazine including longitudinally extending channels at the opposite upper side edges thereof, and longitudinally extending flanges on the opposite sides of said elongated member slidably engaging said channels.

2,663,081
CHEESE CURD CUTTER
Bernard T. Hensgen, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois
Application June 6, 1951, Serial No. 230,191
1 Claim. (Cl. 31—48)



Apparatus for cutting cheese curd or the like in a vat having a circular cross section, said apparatus including a pair of frames one side of which is approximately equal to the radius of the vat, a second, adjacent, side of said frames being positioned substantially along the axis of said circular cross section, a plurality of intersecting cutters secured to and positioned within each of said frames subdividing the area within the frames into a plurality of small openings, means secured to one of said frames mounting said frame for rotation about said axis to cause said cutters to slice the curd in said vat and tend to cause the curd to rotate in the vat ahead of said cutters, and means secured to the other of the frames whereby a force may be applied to said other frame to cause the cutters thereof to engage the curd and resist said tendency of the curd to rotate in the vat ahead of said one cutter.

2,663,082
DEVICE FOR PRODUCTION OF UNIFORM CIRCLE GRADUATIONS
Walther Bauersfeld and Eugen Bernhardt, Heidenheim (Brenz), Wurttemberg, Germany, assignors to Zeiss-Opton Optische Werke Oberkochen G. m. b. H., Oberkochen, Germany
Application May 29, 1951, Serial No. 228,792
6 Claims. (Cl. 33—19)



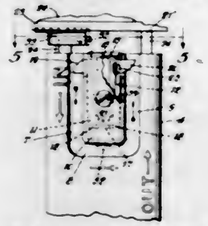
1. In an apparatus for producing uniform circle graduations, a mounting body, at least one ruling pen mechanism fitted to this body and two graduation discs arranged on this body coaxially to each other, one of said graduation discs being adapted to be firmly connected with a disc to be graduated, and the other said graduation disc being slidably mounted on said mounting body to move axially of itself with reference to said body and to said one graduation disc, at least one of said graduation discs being provided near its periphery with a number of equally distributed springy elements, and the other said graduation disc being provided with corresponding elements adapted to engage with said springy elements, and means for bringing into and out of engagement said springy elements with said corresponding elements.

2,663,083
DOUBLE ADJUSTABLE RIFLE TELESCOPE MOUNT
William P. Harms, Bellevue, Wash.
Application July 1, 1952, Serial No. 296,590
13 Claims. (Cl. 33—50)



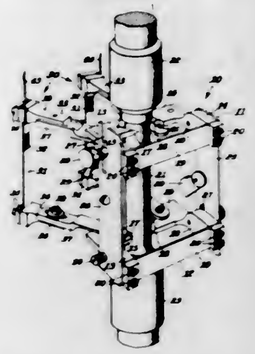
1. A telescopic sight for a rifle adjustable for windage and elevation, comprising: a sighting telescope; a forward and a rear mounting block adapted to be secured to a rifle; a pair of detents of circular cross-section extending from the sides of said forward mounting block; a forward support block having depending portions on either side having grooves in their opposed inner side surfaces in which said detents are positioned, said grooves increasing in their cross-sectional dimensions from their rear to their forward ends; a forward saddle block having a groove in its bottom extending from side to side having inwardly flaring walls and a matching tenon on the top of said forward support block positioned in said groove whereby said forward saddle block is movable from side to side of said forward support block; a first, horizontally-disposed micrometer screw having its head secured in said forward support block against other than rotative movement and having its shank threaded into said forward saddle block forming independent means for horizontally moving said forward saddle block for windage adjustment; said telescope having its forward portion secured to the upper surface of said forward saddle block; a rear support block having depending portions on either side abutting the sides of said rear mounting block and connecting means therebetween permitting at least limited pivoting of said rear support block on said rear mounting block; a rear saddle block positioned on said rear support block and a second, vertically-disposed micrometer screw having its head secured in said rear saddle block against other than rotative movement and having its shank threaded into said rear support block forming independent means for vertically moving said rear saddle block for elevation adjustment; said rear saddle block having a depending leg on one end abutting one side of said rear support block with the abutting surfaces of said depending leg and said rear support block forming in horizontal cross-section arcs of a circle having said second micrometer screw as its center permitting pivoting of said rear saddle block about said second micrometer screw as said forward saddle block is adjusted for windage; and said telescope having its rear portion secured to the upper surface of said rear saddle block.

2,663,084
LIQUID MEASURING DEVICE
Aylmer L. Coderre, St. Anne, Ill.
Application September 18, 1948, Serial No. 49,958
4 Claims. (Cl. 33—126.7)



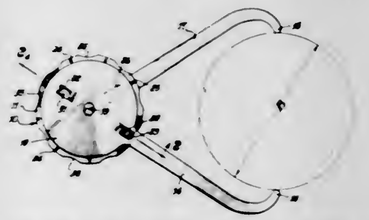
1. In combination, in a system for measuring the depth of liquid within a vessel, a fitting and a measuring stick adapted to be removably inserted through said fitting into said vessel, means defining a groove system, said system comprising a down groove, an up groove and a groove connecting them adjacent their lower ends, and latch means positioned in said down groove and in said up groove and a member adapted to be inserted into and withdrawn from said groove system, said groove system and said member being mounted one in fixed relation to said fitting and the other in fixed relation to said measuring stick, the latch means being effective to prevent withdrawal of the member upwardly from the down groove and the latch means being effective to prevent insertion of the member into the up groove.

2,663,085
EXTENSOMETER
Arthur C. Ruge, Cambridge, Mass., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania
Application December 1, 1951, Serial No. 259,386
11 Claims. (Cl. 33—147)



1. An extensometer comprising, in combination, upper and lower substantially parallel heads, means carried by each head for gripping a test specimen and for preventing rotation of the heads relative to the specimen at their respective points of attachment to it, a bending beam disposed laterally of the specimen and extending lengthwise thereof, arms rigidly connected to the ends of the beam, said arms being disposed in planes substantially normal to the specimen axis, means for connecting the arms to said heads so that movement resulting from specimen strain in a direction lengthwise of the specimen causes the arms to effect flexure of the beam, and electrical means mounted on the beam so as to be responsive to flexure thereof as a measure of the extent of specimen strain.

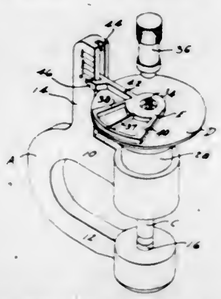
2,663,086
CALIPER FOR THREADED JOINTS
James D. Gardner, Houston, Tex., assignor to Baash-Ross Tool Company, Los Angeles, Calif., a company of California
Application April 14, 1952, Serial No. 282,210
10 Claims. (Cl. 33—148)



1. A caliper for measuring threaded joints, comprising a main member, a reference member adjacent said main member and adjustable with respect thereto, one of said members having reference indications cooperable with said other member and representative of different type of joints, an indicator member adjacent said main member and adjustable with respect thereto, said main member and indicator member having cooperable indicating means thereon determining the sizes of different joints, said reference member and indicator member having means thereon engageable with a portion of a joint to locate said

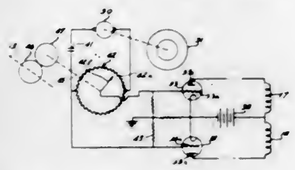
indicator member with respect to said main member and indicating means, and coengaging detent means on said main member and reference member releasably coupling said main member and reference member together in various relative positions.

2,663,087
MICROMETER GAUGE
Francesco Romano, New York, N. Y.
Application November 14, 1950, Serial No. 195,594
1 Claim. (Cl. 33—166)



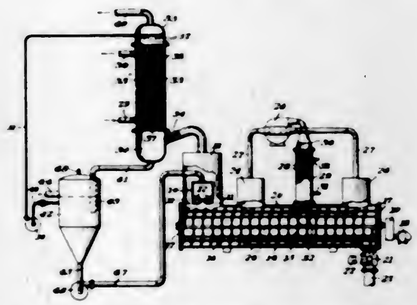
A micrometer having a fixed jaw and a complementary movable jaw to measure the thickness or gauge of material, a rotatable plate having indicia thereon to indicate decimals and gauges and said plate being movable with said movable jaw, a single index member having a central index pointer and two side indexes whereby the upper and lower tolerance limits may be determined, said index member overlying said indicia on said plate, a second pointer integrally connected to said single index member, a spaced guide member integrally connected to said second pointer, a track for guiding said second pointer, and indicia to which said second pointer is directed whereby the number of turns of said rotatable plate is indicated.

2,663,088
PENDULUM AND ACCELERATION COMPENSATION SYSTEM
Raymond T. Cloud, Houston, Tex., assignor to North American Geophysical Co., Houston, Tex., a corporation of Texas
Application April 3, 1948, Serial No. 18,776
17 Claims. (Cl. 33—220)



1. In a vehicle carried gradometer, a pair of spaced magnetic structures defining an air gap therebetween, a pair of coils respectively associated with said magnetic structures, means for energizing said coils to produce equal and opposite magnetic fields in the medial portions of said air gap, a freely suspended pendulum having a magnetic armature portion disposed in said air gap and gravitationally swingable between positions respectively proximate to said magnetic structures, a pick-up coil carried by said armature portion, a servomotor, means connecting said servomotor to said magnetic structures to shift said magnetic structures, and means for controlling said servomotor in response to voltages generated in said pick-up coil to continuously adjust said magnetic structures to maintain said armature portion in a predetermined position in said air gap, means for generating an acceleration voltage proportional to vehicle acceleration, and means for differentially modifying the magnetic field in said air gap as a function of said acceleration voltage, thereby producing a magnetic restoring force on said magnetic armature of said pendulum equal and opposite to any vehicle acceleration forces thereon.

2,663,089
DESOLVENTIZER VAPOR RECOVERY SYSTEM
Hal B. Coats, Edgewood, Pa., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware
Application May 3, 1949, Serial No. 91,110
8 Claims. (Cl. 34—9)



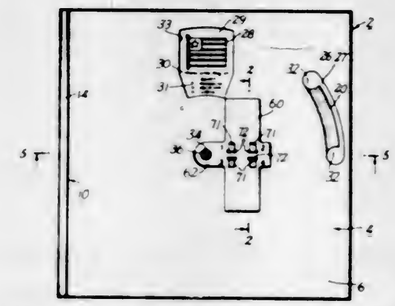
1. In a desolventizing system for the treatment of solids remaining following the solvent extraction of extract from solid organic particles, the steps comprising, desolventizing said remaining solvents, passing the net vapors evolved in said desolventizing upwardly in a substantially vertical direction, condensing the condensable portions of said net vapors during such passage, returning the condensed portions of said net vapors in a direction countercurrent to and in contact with said net vapors, separating substantially clear solvent from said condensed portions, and recycling the remainder of said condensed portions to said remaining solids, whereby the efficiency of said condensing is maintained unimpaired, fines in said remainder of said condensed portions are returned to said remaining solids, and solvent is conserved.

2,663,090
HAIR DRYING HOOD CONSTRUCTION
Lillian R. Flaxman, Hartford, Conn.
Application February 20, 1951, Serial No. 211,896
3 Claims. (Cl. 34—99)

3. A collapsible hair drying hood adapted for cooperative engagement with a blower nozzle comprising, in combination, a plurality of flexible panels each having a straight bottom edge and substantially parallel sides extending at right angles to said bottom edge for approximately two-thirds of their length, said sides tapering inwardly over approximately the upper third of their length to a top edge narrower than and approximately parallel to said bottom edge, means joining the sides of adjacent panels to form an enclosure having an open bottom and a relatively smaller top opening, means attached to the peripheral edge of said top opening for securing said opening to a blower nozzle, a flap of flexible material hingedly fastened to the peripheral edge of said open bottom to form an inwardly extending flange, and a drawstring in said flange for loosely securing the open bottom of said enclosure to the head of the wearer.



2,663,091
EDUCATIONAL DEVICE
James E. Brown, Orange, N. J.
Application December 2, 1949, Serial No. 130,786
2 Claims. (Cl. 35—9)



2. In a device of the character described, the combination of, tray means having an upwardly projecting central hub portion and a surrounding zone, a sheet rotatably mounted on said hub portion within said zone and having three concentrically positioned annular zones one of which is an indicia zone wherein the sheet bears a row of indicia each of which bears a representation and a list of possible identifying terms whereby there may be a choice of an appropriate correct term based upon knowledge with respect to the representation of that indicia, said sheet having in another of said annular zones a number of code openings corresponding in number with said indicia and each of which is positioned in a predetermined relationship with respect to its indicia and particularly with respect to the correct term of its indicia, said sheet having in the other of said annular zones a plurality of finger engaging openings by which the sheet may be engaged for rotation, a cover positioned over said sheet and resting on said tray means and having a window through which one of said indicia is exposed and also having a slot through which a finger may be projected to engage said finger engaging openings, and an electric circuit assembly having elements mounted upon said tray means and having switch element means adapted to project along predetermined paths through said code openings in said sheet when the respective code openings are in alignment with said paths, whereby the sheet may be moved to a path position wherein one of said indicia is exposed and a switch element means may be projected along a path corresponding to the correct term of the indicia through the code opening thereby to close the electric circuit.

2,663,092
SURGE GENERATING APPARATUS
Jean Laurent, Maisons-Alfort, France, and Jean Abel Larras, Algier, Algerie
Application January 4, 1951, Serial No. 204,316
Claims priority, application France January 6, 1950
5 Claims. (Cl. 35—19)



1. In a laboratory apparatus for generating and controlling surges in a flume or other water channel including a reciprocable agitating member at one end of the channel to generate water waves lengthwise therein and driving means for said reciprocable member, the improvement comprising a plurality of screens or curtains made of a pliable material and arranged in spaced relation in front of said reciprocable member, each screen or curtain freely extending across said channel to participate in the wave motion; and retaining means attached to one cross-channel edge of each screen or curtain to hold the same in place within said channel and means attached to the other cross-channel edge of each screen or curtain to hold the same in essentially vertical position in the water-filled channel.

2,663,093
MULTIPLYING CALCULATOR, INCLUDING A SLIDABLE SLATE
Charles Lipkin, New York, N. Y.
Application April 20, 1951, Serial No. 222,059
8 Claims. (Cl. 35—31)



1. In an indicating device of the class described for aiding in the multiplication of numbers; the combination of a frame member provided with three parallel channels, a stationary first "magic slate" disposed in a first of said channels and divided as to provide a plurality of spaces for the indication of digits comprising a multiplicand; a stationary second "magic slate" disposed in a second of said channels and divided as to provide a plurality of spaces sufficient for the indication of a product; a third "magic slate" disposed in a third of said channels between the first and second thereof and being similar to the first and for the indication of digits comprising a multiplier; and said third slate being slidingly movable relative to the others as to render any digit of the multiplier vertically alignable with any digit of the multiplicand.

2,663,094
DEVICE FOR DEMONSTRATING THE ACTION OF SNOW AND ICE TIRES AND THE METHOD OF MAKING THE SAME
Raymond L. Felker, Marshfield, Wis., assignor of fifty per cent to Lloyd L. Felker, Marshfield, Wis., and fifty per cent to David E. Crooker, Ontonogan, Mich.
Application January 16, 1952, Serial No. 266,667
7 Claims. (Cl. 35—49)



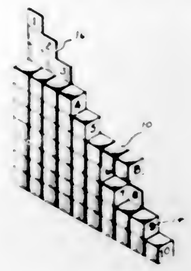
1. A device for demonstrating the action of snow and ice tires comprising: a length of rubber which is sufficiently flexible and of such limited cross-sectional size that it can be manually stretched and bowed, and a single elongated traction augmenting member embedded longitudinally within said length of rubber and occupying the major portion of the cross section thereof, a portion of said length of rubber being of reduced thickness, and there being incomplete portions of said traction augmenting member at a surface of said portion which is of reduced thickness.

2,663,095
MAGIC SLATE
Herbert S. Chase, Flushing, N. Y.
Application April 29, 1952, Serial No. 285,011
5 Claims. (Cl. 35—66)



1. In a "magic" slate device, a plurality of sheets in superposed relation, two adjacent ones of which need be separated to effect "erasure," a stylus for making impressions on the uppermost sheet, means holding said sheets together substantially all around the perimetral edges whereby the stylus cannot be entered between any of the sheets and none of the sheets is shiftable in its plane relative to the other sheets; only one of the sheets to be separated and all sheets lying to one side of said one sheet, being provided with a hole respectively; all of said holes being in alignment for inserting the stylus therethrough; said holes being inward of the perimetral portions of said sheets where said means holds all of said sheets together; at least one of said holes being comparatively very small in relation to the dimensions of the sheets, whereby when the stylus is partially inserted through all said holes and positioned to lie between said two sheets to be separated, said two sheets become separated upon manually swinging the stylus; the support offered the stylus by the edge of said comparatively small hole, serving as the fulcrum point for such swinging movement.

2,663,096
EDUCATIONAL TOY
Nan Webster McCurdy, Coral Gables, Fla.
Application May 11, 1951, Serial No. 225,874
1 Claim. (Cl. 35—70)



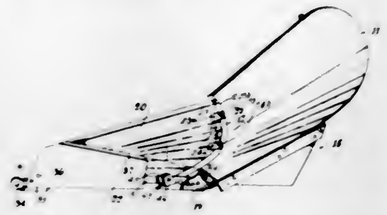
An educational toy consisting of a set of ten square prismatic blocks graduated in lengths from one to ten and shaped to provide cubical units, the units of each of the blocks of more than one unit being defined one from the other by deep slots on all four sides of the respective prism, in combination with a rectangular check sheet having delineated thereon a side view of a pile of said units arranged in unitarily decremental layers from a layer of ten unit lengths at one edge of the sheet to a layer of single unit length adjacent to opposite edge of said sheet, each of said prisms bearing an index number corresponding to the unitary length of the prism to which it is applied and each layer on the check sheet having a similar length indicating number impressed on the sheet.

2,663,097
ARTICLE OF FOOTWEAR EMBODYING FLOCK-COATED OUTSOLE
Alfred G. Giese, Jr., Princeton, Wis., assignor to Handcraft Company, Inc., Princeton, Wis., a corporation of Wisconsin
Application July 21, 1952, Serial No. 300,028
2 Claims. (Cl. 36—9)



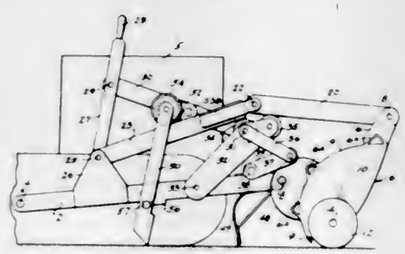
1. An article of footwear, comprising: an upper having an insole; a cellular sponge rubber outsole having a top surface, a bottom surface, and a peripheral edge having open cells, said out-sole conforming closely to the contour of said insole; means securing said outsole to said insole with the top face of said outsole confronting said insole; a substantial coating of flexible and resilient adhesive material substantially entirely covering the peripheral edge and the bottom surface of said outsole; and a layer of flock substantially entirely covering said adhesive coating material and bonded thereto, whereby the adhesive material and flock coating close said cells and reinforce the outsole against tearing or rupturing in the coated areas when in use.

2,663,098
ATTACHMENT FOR V TYPE SNOWPLOWS
Carl H. Frink, La Fargeville, and George W. Kenyon, Clayton, N. Y., assignors to Frink Sno-Plows, Inc., Clayton, N. Y., a corporation of New York
Application October 17, 1947, Serial No. 780,320
5 Claims. (Cl. 37—44)



1. In snow plow apparatus, the combination, with a V-type snow plow that has a pair of upwardly sloping moldboards joined in V-relation along a fordward upwardly sloping apex line and having bottom cutting edges in V-relation, of a moldboard element having an upwardly sloping configuration to conform with one of said moldboards and having a rear sloping end edge for conformity with said apex line, said moldboard element extending from said apex line diagonally forward of the other of said moldboards and constituting with said one moldboard a one-way plow, said moldboard element having a bottom cutting edge which extends diagonally forward from the apex of the plow bottom cutting edges, bracing structure rigidly secured to the moldboard element at a locality substantially spaced from its aforesaid rear end edge, said bracing structure extending rearwardly from the moldboard element to said other moldboard to a locality of the latter substantially spaced from said apex line, and means pivotally connecting the rear ends of said moldboard element and bracing structure to the V-type plow for limited rocking movement of said element and structure as a unit about a horizontal axis.

2,663,099
LAND LEVELING MACHINE
Henry W. Klages, Portland, Oreg.
Application November 24, 1951, Serial No. 258,040
3 Claims. (Cl. 37—144)



1. A land-leveling attachment for a tractor comprising in combination, a pair of parallel side beams adapted for pivotal attachment at their inner ends to a tractor, a scraper blade pivotally attached to the forward ends of said beams, supporting wheels rotatably mounted on the scraper blade exteriorly of the ends thereof, a pair of skid-shoes swingably attached to the forward ends of said beams and adapted to support the forward ends of said beams upon contact with the ground during rearward travel of the tractor, a pair of actuating levers pivotally attached at one of their ends to said beams, two pairs of toggle links pivotally attached at one of their ends to said beams and pivotally attached at their opposite ends to said scraper blade, means swingably attached to said beams and connected to said actuating levers for raising and lowering said toggle links for tilting said scraper blade rearwardly and forwardly with respect to said beams, a pair of lifting legs slidably attached near their lower ends to said beams and in rolling contact at their opposite ends with said toggle links and swingably attached to said actuating levers, whereby said lifting legs upon contact of their lower ends with the ground during forward travel of the tractor will elevate said beams and through the medium of said toggle links will swing said scraper blade into an elevated position with respect to the ground and whereby said supporting wheels will be lowered into rolling contact with the ground.

2,663,100
STEAM IRON
Samuel R. Bricker, Shelby, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 21, 1951, Serial No. 242,883
5 Claims. (Cl. 38—77)



1. A flash type steam iron having a soleplate, a steam generating chamber, means for heating said soleplate and said steam generating chamber, a water tank disposed above said soleplate, a valve for controlling flow of water from said water tank to said steam generating chamber for steaming purposes, and filling means for said tank, said filling means including a rotatable fill cap having a port and a stationary member having a port in communication with said tank, said valve being movable axially from a closed position to an open position, means including a cam and a follower operable by rotation of said fill cap to move said valve to the open position, said fill cap being rotatable to a first or fill position, a second or dry position and a third or steam position, said ports in said fill cap and said stationary member being of such angular extent and being so angularly related to each other and said cam being of such shape and being so angularly related to said follower that, when said fill cap is in said first or fill position said ports are in registry with each other and said valve is in the closed position, when said fill cap is in said second or dry position said ports are out of registry with each other and said valve is in the closed position, and when said fill cap is in said third or steam position said ports are out of registry with each other and said valve is in the open position.

2,663,101
IRONING TABLE
Kemuel B. Olander, Minneapolis, Minn.
Application June 4, 1952, Serial No. 291,687
8 Claims. (Cl. 38—114)



3. In an ironing table, an elongated ironing board, a collapsible board supporting structure including a pair of crossing and pivotally connected leg members attached at their upper ends to the board and extending downwardly in laterally offset positions with respect to the median vertical longitudinal plane of the board, each leg member having an upper extension disposed transversely with respect to the board for the attachment thereto, and each leg having a base disposed transversely with respect to the board for supporting contact with the floor, said extensions and bases intersecting said median plane, and each of said leg members being formed with lower portions extending diagonally through said plane to connect with its extension at the opposite side of the plane.

7. An ironing table comprising a top member and a pair of leg members for maintaining the top member in operative position above the floor, one of said leg members having two spaced points of floor contact rigidly interconnected and maintained in a plane parallel with the plane of the top member, the other of said leg members being disposed in a plane transverse of the board and having a foot member pivotally connected therewith for rocking movement in such transverse plane, said foot member having two spaced points for floor contact to adjust the foot member to the adjacent floor contour, the connection between the foot member and said other leg member providing freedom for limited tilting of the foot member about an axis extending transversely under the board and with respect to the said other leg member, and means including a toothed element connecting the foot member to said other leg member, and operative by such relatively tilting of the foot member to releasably lock such members together after the foot member has been adjusted by initial contact of its said two points with the floor surface.

2,663,102
IRONING TABLE
Kemuel B. Olander, Minneapolis, Minn.
Application June 9, 1950, Serial No. 167,199
16 Claims. (Cl. 38—123)

1. In an ironing table having an elongated ironing board, a supporting structure for the board comprising a front leg member and a rear leg member respectively secured at longitudinally spaced points to the underside of the board and extending angularly downwardly to cross each other at a point above their longitudinal centers whereby the lower ends of the leg members will be spread further apart than their upper ends, said members consisting of single bars pivoted



together at their intersection and with their intersection lying adjacent to the vertical longitudinal plane of one lateral edge of the board, and the lower ends of the leg members having rigid transverse extensions underlying the table to support the table against lateral tilting.

2,663,103
FLEXIBLE TOLL BARRIER
John A. T. Ellison, Seattle, Wash.
Application November 21, 1950, Serial No. 196,888
2 Claims. (Cl. 39—8)

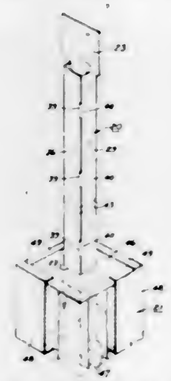


1. In a barrier system, a flexible barrier adapted to be anchored at both of its ends with the major part of its length extending across a passageway and movable from a lowered slackened non-obstructing position to and from an elevated non-slackened obstructing position, and power means connected to the barrier at a location adjacent one of its ends for taking up and letting out slack between said location and the other end of the barrier and, respectively, letting out and taking up slack between said location and the adjacent end of the barrier, said power being arranged and said location being such that there is no slack in the portion of the barrier between the said location and the adjacent end of the barrier when the barrier is in its said slackened non-obstructing position so that the anchored ends of the barrier will take the entire load of an externally applied force tensioning the barrier and directed endwise of the passageway.

2,663,104
DISPLAY CARD AND SUPPORT
Hjalmar G. Hoagland, Minneapolis, Minn., assignor to Hills Bros. Coffee, Inc., San Francisco, Calif., a corporation of California
Application May 23, 1949, Serial No. 94,824
1 Claim. (Cl. 40—124.1)

In combination, a hollow column and a display card, said column being polygonal in cross section and having integral end flaps turned in-

side said column around the upper edge thereof, said display card having a zone for bearing desired indicia, a tongue projecting from one edge of said zone and inserted inside said column, a first pair of tabs extending laterally outwardly along one side of said tongue, a second pair of tabs extending laterally outwardly from the other side of said tongue, said tabs being separated from adjacent tabs by laterally extending slits and from said zone by laterally extend-



ing slits, the tabs of each of said pairs being folded in opposite directions to lie against the inside of said column, the length of each of said tabs by which said tabs project outwardly beyond said tongue being substantially equal to one-half of the width of said column along the line along which said tabs lie, the lowermost of said tabs fitting under the lower edges of said end flaps of said column, whereby said display card is locked against disengagement from said column.

2,663,105
FRAME FOR PHOTOGRAPHS AND PICTURES
Glen P. Woodbury, Reading, Mass.
Application May 23, 1950, Serial No. 163,725
2 Claims. (Cl. 40—152)



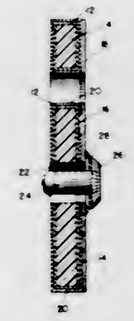
1. A frame for photographs and pictures comprising a sheet metal frame member having a rearwardly extended and relatively rigid rim portion and inwardly curved extended flange portions defining an open recessed portion in the back thereof, and a backing member received within said recessed portion, said frame member being provided with resilient metal retaining hooks extended rearwardly beyond said rim and engageable with the marginal edges of said backing member to detachably retain the parts in assembled relation, said backing member comprising a relatively rigid core member having a resilient covering material, the hook members compressing the adjacent portions of the covering material and extending over the back edge of said rigid core member.

2,663,106
DECORATIVE STREAMER
Robert G. Owen, Sherman Oaks, Calif.
Application March 26, 1951, Serial No. 217,643
3 Claims. (Cl. 41—10)



1. In a decorative streamer, a base web of transversely corrugated metallic foil, said foil being relatively stiff but pliable, a longitudinal backing strip of material having a high shear strength relative to the strength of said foil, said backing strip being adhesively secured to said web centrally thereof, a strand of fibrous material, and stitching securing said strand to the central longitudinal portion of said web, the stitching extending through the backing strip, and said strand having a portion extending outwardly from each end of said web.

2,663,107
ILLUMINABLE STRUCTURE
Garland W. Moler, Falls Church, Va., and Harry Nassau, Philadelphia, Pa., assignors, by mesne assignments, to O. E. Szekely & Associates, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application April 19, 1949, Serial No. 88,493
3 Claims. (Cl. 41—22)

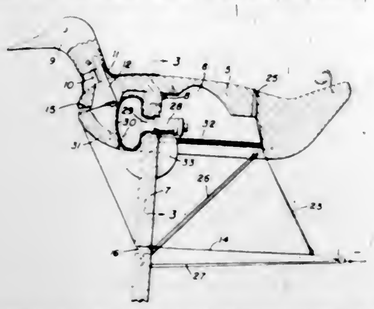


1. An illuminable structure comprising an acrylic plastics panel, a coating of white pigmented vinyl resin on all surfaces of said panel, printing in cut-out from a ground of black pigmented vinyl resin on the face of said panel, a protective film of clear vinyl resin on the face of said panel, an overcoating of black pigmented vinyl resin on all surfaces of said panel except the printed face thereof and a light source recess in said panel.

2,663,108
ANIMATED DECOY AND ACTUATING MEANS THEREFOR
Victor V. Dixon and James V. Dixon, Lebanon, Oreg.
Application April 16, 1952, Serial No. 282,574
9 Claims. (Cl. 43—3)

1. An animated decoy of the class described comprising a body, means supporting the body for forward and rearward tilting movement, said body including a movable head, resilient means

connecting the body to said supporting means to tilt the body in one direction, flexible means connected to the head and operable from a remote



position to tilt the body in an opposite direction, as well as to move the head, and two sound producing means in said body operative successively by tilting of the body in one direction.

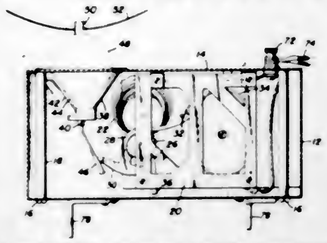
2,663,109
FISHING LINE ATTACHMENT
John Masi, Miami, Fla.
Application April 19, 1952, Serial No. 283,179
2 Claims. (Cl. 43—15)



1. A device of the class described comprising an elongated member having means at each end thereof for securing lines thereto, a second elongated member pivotally mounted on the upper portion of said first member and having means contained at one end thereof for securing a further line thereto, third and fourth members mounted adjacent the lower portion of said first member and extending in alignment with each other, the free end of said third member having a bore thereon adapted to receive said last mentioned line therethrough, a spring means connecting the free end of said fourth member and the other end of said second elongated member, and stop means mounted at the free end of said fourth member for arresting the pivotal movement of said second elongated member.

2,663,110
FISHING SIGNAL
Pete Guzy, Washington, Pa.
Application March 3, 1952, Serial No. 274,530
2 Claims. (Cl. 43—17)

1. A fishing signal comprising in combination a housing including a cup-shaped socket having a longitudinal slot formed in one side thereof, a clockwork mechanism including an escapement member provided with an elongated arm mounted in said housing, a release lever pivotally mounted intermediate its ends on the lower portion of said socket in such a manner that the upper portion thereof normally projects into said socket through said slot and the lower portion thereof is adapted to engage said arm to block movement thereof when the upper portion of the lever



is forced out of the housing and a control member adapted for actuation by a fishing line and seated in said socket in operative engagement with the upper end of said lever and adapted to hold the lower end of said lever in contact with said arm to prevent movement of the same whereby said clockwork mechanism may be energized when said member is unseated, a signalling device, and means responsive to energization of said mechanism for actuating said signalling device

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2,663,111
FISH LURE GUARD
Kenneth A. Hollingsworth, Cedar Rapids, Iowa
Application January 14, 1950, Serial No. 138,641
2 Claims. (Cl. 43—42.4)



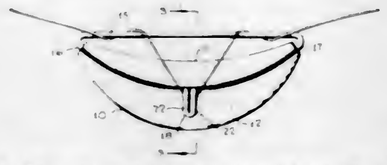
1. In a device of the character disclosed, an elongated central member adapted for connection at its forward end to a line and at its rearward end to a fish lure, and a plurality of generally radially extending spring wire fingers secured to said member, the length of each of said fingers from its point of securement, to said central member, to the extended end thereof being much greater than the length of said central member, pairs of said fingers extending diametrically opposite each other and being formed of a single wire press fitted in a hole in said central member, said fingers lying closely adjacent a plane perpendicular to said central member, and the outer ends of said fingers being curved rearwardly from said plane, with respect to the reeling-in direction of movement of the device, to a minor extent relative to the length of the fingers, said fingers being disposed substantially entirely within the projected confines of the length of said central member, whereby all portions of said fingers are located forwardly of said fish lure, and said fingers being effective for substantially preventing twisting and rotation of the device due to incidental twisting of the lure.

2,663,112
FISH LURE
Clifford K. McMillin, Bellingham, Wash.
Application July 19, 1950, Serial No. 174,757
2 Claims. (Cl. 43—42.09)



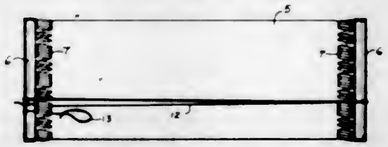
1. In a fish lure, a body having a front and back end, said body having a substantially flat top, and a straight transverse groove of uniform depth throughout its length in said flat top located intermediate the front and back ends of said body to support a fin, a fin having a front enlarged edge disposed in said groove, and fasteners secured to said body forwardly of and adjacent the groove and having head portions partially overlying said groove and engaging and holding said enlarged edge in said groove.

2,663,113
FISHING LINE SINKER
Adrian N. Tongson, Chicago, Ill.
Application November 10, 1950, Serial No. 195,050
3 Claims. (Cl. 43—43.1)



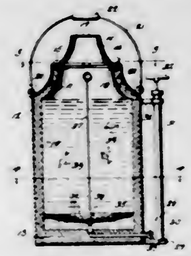
1. A fishing line sinker comprising an elongated curved body of nonbuoyant material symmetrically tapered from its midlength location toward its opposite ends and having a rhomboidal cross sectional shape and having a concavely curved edge, said body having an arcuate longitudinal axis, a bail having acutely bent ends secured axially in said body at the ends of the latter, said bail extending along and adjacent to said concave edge, and a hook projecting laterally from said body intermediate the length of the latter and extending substantially at right angles to the plane of said bail, said hook being directed away from said bail to hold a portion of a fishing line wrapped around said bail near the opposite ends of the latter and extending from the ends thereof.

2,663,114
FISHING LEADER HOLDER
Leonard C. Warner, Waterbury, Conn.
Application February 15, 1951, Serial No. 211,031
1 Claim. (Cl. 43—54.5)



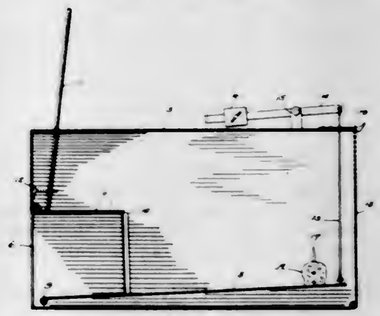
A holder for a fishing leader comprising a flat plate provided with rounded ends defining hollow beads extending transversely across the plates, coiled springs of greater diameter than the beads, positioned on the inner side of the beads, and above the upper surface of the plate, said coils having end portions ending laterally of and parallel to the axis of the coils and in spaced relation thereto and positioned within the hollows of the beads, and means securing the end portions within and in contact with the beads, said springs having alternate closely positioned and widely spaced coils whereby a leader may be extended around both beads and lie between the widely spaced coils and the opposite ends of the leader may be held in secured relation to the coils by the closely spaced coils, positioning the major portion of the leader between the coils in substantially parallel relation to the plate.

2,663,115
AERATED MINNOW BUCKET
Robert G. McKissack, Bolton, Miss.
Application March 10, 1950, Serial No. 148,803
1 Claim. (Cl. 43—57)



A device of the character described comprising a bucket including a cylindrical wall and a bottom wall, a valved fitting disposed in said bottom wall and communicating with the interior of the bucket, a feed pipe embedded in said bottom wall, connected at its inner end to said valved fitting and protruding from said cylindrical wall, a bracket affixed to the lower portion of the cylindrical wall and having bayonet slots therein, a spring clip affixed to the upper portion of the cylindrical wall in vertical registry with said bracket, a pump, pins affixed to the lower end of said pump and removably receivable in said bayonet slots, said pump being also removably receivable in said spring clip, a discharge pipe in the lower portion of said pump, and a coupling for interconnecting said discharge pipe with the outer end of said feed pipe.

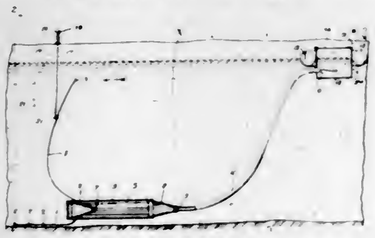
2,663,116
ANIMAL TRAP
Floyd Smith Jones, Durham, N. C.
Application May 28, 1951, Serial No. 228,684
1 Claim. (Cl. 43—61)



An animal trap comprising, a hollow rectangular body having an ingress opening extending

through a vertical wall thereof, a pivoted treadle mounted within the body for movement in a vertical arcuate path, the pivot point of said treadle being adjacent the ingress opening, a door hingedly carried by the body above the ingress opening for movement in an arcuate path from an inactive substantially horizontal position above the treadle in which the ingress opening is open to an active substantially vertical position adjacent the treadle in which the ingress opening is closed, a post carried by the treadle and extending upwardly therefrom for movement therewith from an active position beneath the door to an inactive position out of the path of movement of the door, said treadle being provided with an adjustable counterweight arrangement such that the treadle cannot ordinarily be pivoted by an animal thereon until the said animal has passed the said post, and means to hold the door in closed position relative to the ingress opening comprising a guide bracket having an opening, a guide opening in the top of the body aligned therewith, an elongated rod mounted within the body having its lower part normally resting on said door and extending through said openings of the bracket and the top of the body for movement longitudinally in a downwardly inclined rectilinear path from an inactive position above the ingress opening to an active position across the ingress opening, in which the upper end of the rod extends through the guide opening in the top of the body and the lower end of said rod rests between the door and the treadle to secure the door against movement in an arcuate path.

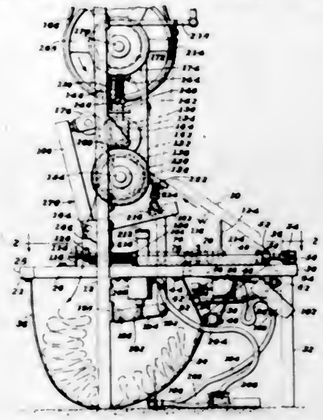
2,663,117
FISH TRAPPING APPARATUS
Lothar A. Ederer, Chicago, Ill., assignor to Keal Products, Inc., Evanston, Ill., a corporation of Illinois
Application August 29, 1950, Serial No. 182,044
8 Claims. (Cl. 43—100)



1. In combination, a main net, means for supporting said net in a body of water in a generally upright position with its upper margin below the surface of said body of water, and a second separate net member and means for supporting it in a generally upright position in said body of water with its lower margin below the upper margin of said first net, and with its upper margin above the upper margin of said first net.

2,663,118
TENSIONING APPARATUS
Frank R. Piper and James M. Gardner, Fairfax, Ala., assignors to West Point Manufacturing Company, Shawmut, Ala., a corporation of Alabama
Application May 1, 1951, Serial No. 224,022
6 Claims. (Cl. 45—24)

1. In tensioning apparatus, means located at a first position for clamping a web of material, means located at a second position for drawing the web in tension against the restraining action of the clamping means, separately operable means for advancing the drawing means, and



means comprising unidirectional motion means operatively associated with the drawing means for retaining the drawing means at a predetermined advanced position to maintain tension in the web of material.

2,663,119
FLYING FEATHER TOY
Orestes A. Pierce, New York, N. Y.
Application October 19, 1951, Serial No. 252,095
3 Claims. (Cl. 46—80)

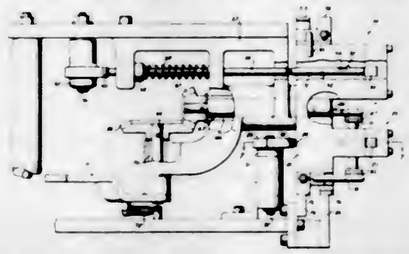


1. A flying toy comprising two feathers, a rubber tubular element, said rubber tubular element being fixedly connected to the feathers at each end thereof, a fastening element fixedly connected to said rubber tubing at the central portion thereof whereby to impart a slight bend to said tubular element, said fastening element being provided with a hook on the upper portion thereof, two rubber bands fixedly connected to the outer ends of said rubber tubular element, and a parachutist assembly detachably connected to said hook, said parachutist assembly comprising a flat circular disc, a toy parachutist connected to the upper surface of said circular disc and extending vertically therefrom and three vertically extending feathers fixedly connected to the upper surface of said circular disc at the periphery thereof and at right angles to each other, said feathers curving downwardly along the longitudinal axes thereof.

2,663,120
APPARATUS FOR FORMING ARTICLES
Carl Herzog, Belleville, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 21, 1950, Serial No. 186,005
4 Claims. (Cl. 49—1)

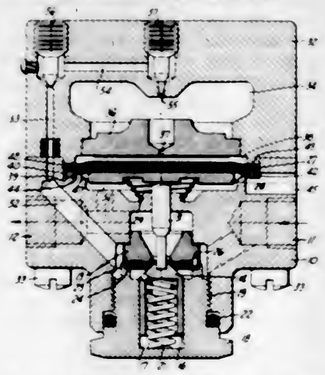
1. An apparatus for forming glass sealed conductive parts in combination with holders for removably holding the parts and having like ref-

erence surfaces disposed at known positions relative to their respective parts, the apparatus comprising a shaft, a head rotatably supported on the shaft, a chuck supported by the head to removably secure a glass tube in a given position, a support mounted on the head and having a reference surface disposed at a given position relative to the tube in the chuck, means to successively secure the holders on the support with each reference surface thereof engaging the ref-



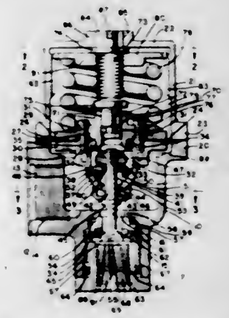
erence surface of the support to successively locate the parts at known positions in opposite ends of the glass tube, electrically energizable heating elements supported by the head adjacent the ends of the tube and having contacts disposed at opposed positions on the head, and terminals included in an electrical circuit mounted at a fixed position adjacent the head to be successively engaged by the contacts to energize the heating elements to fuse the ends of the tube.

2,663,121
COMBINATION PRESSURE REDUCING REGULATOR AND RELIEF VALVE
Grover S. Ramsey, Berkeley, Calif., assignor to Grove Regulator Company, Oakland, Calif., a corporation of California
Application January 13, 1951, Serial No. 205,926
3 Claims. (Cl. 50—21)



1. In a combination pressure reducing regulator and relief valve, a body having inflow and outflow passages, a valve member within the body and movable to control flow of fluid therethrough, a flexible diaphragm operatively connected to operate the valve member, a loading dome clamped upon the body, said body and loading dome being formed to provide opposed annular shoulder faces adapted to clamp and seal upon the margin of the diaphragm, said body providing a chamber on the body side of the diaphragm which is in communication with the outflow side of the regulator, said dome part providing a chamber upon the other side of the diaphragm adapted to receive gas under pressure to apply loading force upon the diaphragm, and pressure relief venting means associated with said diaphragm, said last means including a duct formed in the body communicating with the atmosphere and a venting orifice communicating between said first named chamber and said duct, said orifice being located adjacent the margin of the diaphragm whereby said orifice is normally closed by the diaphragm and is opened by abnormal flexing of the diaphragm by excessive pressure applied to said first chamber.

2,663,122
PRESSURE REGULATING VALVE
Nelson F. Cornelius, Anoka, Minn.
Application September 29, 1949, Serial No. 118,517
8 Claims. (Cl. 50—23)



1. In a pressure regulating valve, a body having a valve chamber and an inlet and an outlet communicating therewith, a valve seat having an opening therethrough communicating with said chamber and inlet, a diaphragm mounted in said body and having fluid communication with said outlet, a valve operating member carried by said diaphragm and movable toward and from said valve seat upon flexing of the diaphragm, resilient means for urging said valve operating member toward said valve seat, a valve stem extending through said valve seat, and attached to said valve operating member, a valve head carried thereby and engageable with said valve seat, means forming an expansible chamber associated with the valve operating member and operated thereby and including two relatively movable parts for producing the expansion, said parts having an effective area equal substantially to the area of said valve seat at the locality of contact with the valve head and serving to balance the inlet pressure acting on the valve head, said expansible chamber enlarging upon movement of the valve operating member toward the valve seat and means forming a passageway for bringing said expansible chamber into communication with said inlet.

2,663,123
RECONDITIONING APPARATUS FOR DOFFER ASSEMBLIES
Carl R. Worthington, Tulare, Calif., assignor of one-half to Corcoran Implement Company, Inc., Corcoran, Calif.
Application May 18, 1953, Serial No. 355,822
5 Claims. (Cl. 51—55)

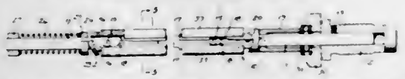
1. A doffer assembly reconditioning apparatus comprising a frame, means in the frame adapted releasably to mount a doffer assembly therein for rotation in a predetermined position, an index bar mounted in the frame in substantially parallel relation to the position for the doffer

assembly, said bar having circumscribing grooves in substantially equally spaced relation therealong, a support member pivotally mounted on the index bar for slidable movement longitudinally thereof, a power driven grinder mounted on the support member for doffer assembly en-



gagement, and means borne by the support member for engagement in the grooves of the index bar releasably to retain the support member in fixed position longitudinally of the index bar and slidable in the grooves to accommodate pivotal movement of the support member while retained in said fixed longitudinal position.

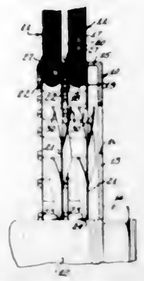
2,663,124
EXPANDABLE HONE
Jack F. Smole, Cleveland Heights, and Arthur Collier, Cleveland, Ohio, assignors, by mesne assignments, to Lempco Products, Inc., Bedford, Ohio, a corporation of Ohio
Application July 17, 1946, Serial No. 684,270
6 Claims. (Cl. 51—184.3)



1. An adjustable hone comprising a spindle of polygonal cross-section having spaced pairs of oppositely extending cam surfaces extending from opposite faces thereof; a pair of substantially U-shaped blades straddling opposite faces of the spindle and having inclined recesses engaging related cam surfaces of the spindle; stones on the outer faces of the blades adapted to together form an approximately cylindrical honing surface; means for maintaining the blades assembled on the spindle while permitting simultaneous shifting of the blades on the spindle to vary the effective diameter of the honing surfaces of the stones; said spindle having a longitudinally disposed series of holes extending therethrough intermediate the blades; and correspondingly shaped blocks forming the cam surfaces filling said holes and extending beyond the sides of the spindle and engaging the inclined recesses of the blades.

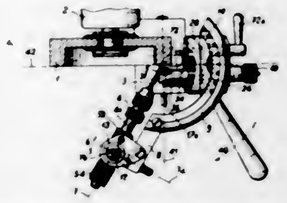
2,663,125
BUFF
William Ruthven, Oak Park, Ill., assignor to Ajax Buff Company, Chicago, Ill., a corporation of Illinois
Application July 18, 1950, Serial No. 174,421
6 Claims. (Cl. 51—193)

1. A buffing wheel comprising an annular cloth buff, a clamping member, means carried by said clamping member for securing said member to said buff, and a pair of air deflecting vanes formed integrally with said clamping member and projecting one on each side thereof, each of said vanes having a first edge extending substantially along a single radius of said clamping member, said vanes being joined to the clamping member along lines of deflection which meet equiangularly at said radius line and diverge outwardly therefrom toward the periphery of said one clamping member whereby during rotation of said buff in either direction the air will be deflected from a tangential path by one of said



vanes into a radially outwardly path to cool the buff.

2,663,126
APPARATUS FOR SHARPENING DRILLS
Oscar Amiet, La Chaux de Fonds, Switzerland
Application September 6, 1950, Serial No. 183,336
Claims priority, application Switzerland June 2, 1950
12 Claims. (Cl. 51—219)

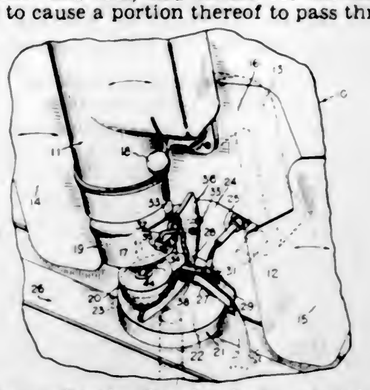


1. In an apparatus for sharpening drills, especially for grinding them on four distinct faces, a positioning means for the rear part of the drill and a centering means for its front extremity, means for supporting said positioning and centering means, said centering means comprising a fixed member, two jaws movable relative to one another and a movable abutment which operate simultaneously, said jaws being movable relative to said abutment and having inclined faces engaging said fixed member and inclined faces engaging said abutment to move the jaws and the abutment towards the point of the drill when said jaws move toward one another, whereby drills of different sizes are seized in their grinding position, by the two jaws always situated at the root of the cone constituting their point, on a diameter perpendicular to the plane in which the cutting edges lie, said drills bearing against the movable abutment always by their cylindrical part at the root of one of the cutting edges.

2,663,127
ABRADANT SUPPLYING MEANS
John J. Hunt, Irondequoit, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application September 13, 1952, Serial No. 309,405
8 Claims. (Cl. 51—263)

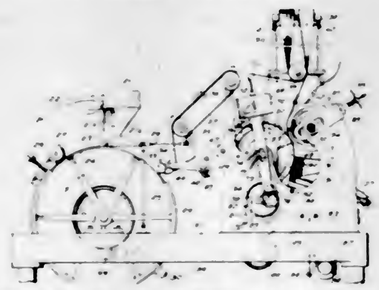
1. In a lens grinding apparatus including a relatively movable grinding tool and lens holder, a nozzle lying in a plane above the tool for ejecting a continuous stream of abradant material, the combination of means for intermittently directing the stream of abradant material from said nozzle onto said tool, said means comprising a movable trough lying in a plane located between

the nozzle and tool, and means for moving the trough to cause a portion thereof to pass through



the stream whereby the abradant material is intermittently directed onto said tool.

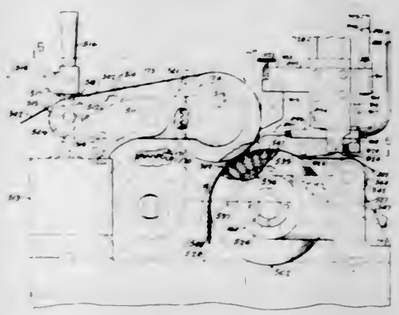
2,663,128
METHOD AND MACHINE FOR MAKING CAPSULES
Frank E. Stirn, Pearl River, and Arthur S. Taylor, Spring Valley, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application March 23, 1948, Serial No. 16,554
16 Claims. (Cl. 53—5)



1. The method of forming gelatin capsules from soft gelatin strips which comprises the steps of casting a liquid gelatin as a film on a casting surface, drying the gelatin film so that it will possess plastic characteristics, splitting said gelatin film into at least two strips, subjecting each strip to a different thermal treatment, forming pockets in one strip only, covering said formed pockets with the other strip so that the casting surface contacted side is placed in juxtaposition to the casting surface contacting side of the pocket containing strip, sealing said strips together by pressure and simultaneously cutting out said formed pocket and the covering portions of said other strip, whereby a capsule is formed and whereby the capsule shapes itself into the desired form as a result of the release of natural strains set up in the gelatin.

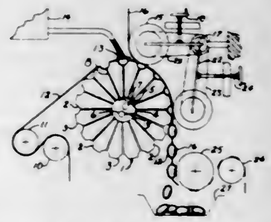
2,663,129
MACHINE FOR FABRICATING CAPSULES FROM ELASTIC FILMS
Alfonso M. Donofrio, Toledo, Ohio, assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application July 18, 1951, Serial No. 237,353
22 Claims. (Cl. 53—86)

1. In a machine for forming capsules having uniform measured charges of substance capable of transmitting hydrostatic force sealed between opposed layers of elastic sheet material, in combination, a die roll having a plurality of axial rows of die pockets cut in its periphery, means for feeding a sheet of material over the periphery of said die roll, means for depressing defined portions of said material into said die pockets for forming substance receiving pockets therein, means actuated through an intake and an exhaust cycle for each axial row of pockets for depositing a measured charge of substance simultaneously into all of said pockets in an axial row as each row of said pockets reaches a predetermined position relative to said depositing means,



means for adjusting the timing of said depositing means relative to the position of said row of die pockets relative to said depositing means at the time of deposition of said substance, and means for laying a generally flat and not pocketed second sheet of elastic material over said substance and for sealing said sheets together around the margins of said pockets and for severing said sealed substance enclosing capsules from said sheets and releasing the thus formed capsules from confinement whereby equalization of forces in said sheets resulting from the pocketing of the first sheet reduces the deformation of the pocketed sheet and deforms said second sheet correspondingly.

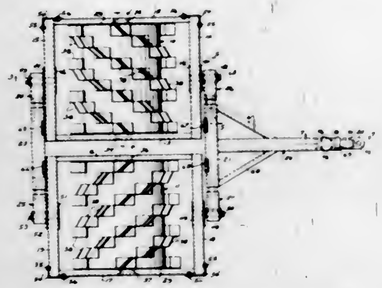
2,663,130
APPARATUS FOR PRODUCING SYMMETRICAL GENERALLY ELLIPSOIDAL CAPSULES
Alfonso M. Donofrio, Toledo, Ohio, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y., a corporation of Maine
Original application December 26, 1946, Serial No. 718,527. Divided and this application November 7, 1949, Serial No. 126,026
13 Claims. (Cl. 53—89.5)



1. Apparatus for forming substantially symmetrical capsules in an asymmetric die roll system from continuous strips of gelatinous elastic sheet capsulating material comprising, in com-

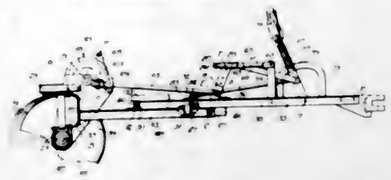
bination, a die roll having die pockets in its surface and raised lips circumscribing said die pockets, means for feeding a continuous lower sheet of gelatinous elastic material over and in contact with said die roll, means for depressing said sheet into said die pockets a distance sufficient to produce pockets of definite volume in said sheet, means for filling said pockets with a completed capsule sized charge of the substance to be encapsulated, means comprising a smooth periphery roll rotating on an axis parallel to the axis of the die roll, with its periphery in contact with said lips and moving at the same surface speed and in the same direction as said lips at the line of contact for feeding a second continuous sheet of unpocketed gelatinous elastic material over the said lower sheet containing the filled pockets and sealing the two sheets of elastic material together around the edges of said pockets and substantially severing the thus formed filled capsules from the residual webs of sheet material, and means embodied in said apparatus for ensuring that the pocketed portion of the respective initially formed asymmetrical capsules is under sufficiently greater tension than the unpocketed portion that upon release of the capsules the said greater tensioned portion acts through the capsule contents to deform said unpocketed portion and produce a substantially symmetrical capsule.

2,663,131
UNDERGROWTH DESTROYER
Clarence A. Johnson, Guthrie, Minn.
Application August 18, 1950, Serial No. 180,271
1 Claim. (Cl. 55—47)



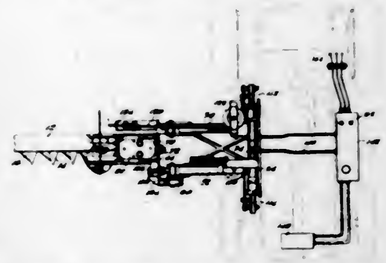
In a ground working implement, a pair of rectangular frames, each of said frames including a pair of spaced parallel side bars, a pair of spaced parallel end pieces extending between said side bars and secured thereto, a shaft extending between each pair of side bars and journaled therein, a hollow cylinder mounted on each of said shafts and having a quantity of weighted material therein, a crossbar arranged forwardly of said pair of frames, a tongue extending forwardly from said crossbar and adapted to be attached to a towing vehicle, a crossbar arranged rearwardly of said frames, there being a filling opening in each of said cylinders, a plurality of angles secured to said cylinders, cutting blades secured to said angles and provided with beveled cutting edges, a stub shaft extending forwardly from each of said frames, a stub shaft extending rearwardly from each of said frames, a bearing pivotally connected to each of said stub shafts, said bearings being pivotally connected to said crossbars, a pair of vertically disposed arcuate shoes secured to the inner surface of each of said crossbars, and coacting means on said bearings and crossbars for limiting sagging of said tongue.

2,663,132
DISK HARROW
Alvah E. Rutter, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application December 31, 1946, Serial No. 719,505
10 Claims. (Cl. 55—83)



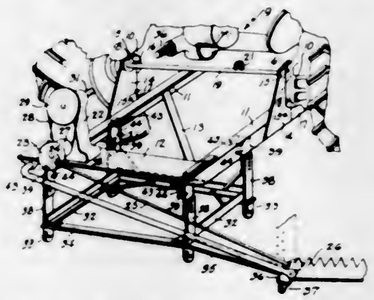
1. In a harrow, the combination of a draft frame, harrow sections connected to said frame and adapted to be angled with respect to the line of draft of said harrow, and means for angling said harrow sections including a saddle supported for slidable movement on said draft frame, control bars connecting the inner portion of said harrow sections with said saddle, a guide member pivotally connected at one end to said frame, a link connected at one end to said saddle and having the other end thereof guided by said guide member, and means for locating said link in different positions along said guide member to determine the angularity of said harrow sections.

2,663,133
MOWER ATTACHMENT FOR TRACTORS
Ray B. Davis, Newton Center, Mass., assignor to H. F. Davis Tractor Company, Boston, Mass., a corporation of Massachusetts
Application March 12, 1949, Serial No. 81,141
3 Claims. (Cl. 56—25)



1. A power mowing attachment for a tractor, comprising a mounting plate member for attachment to a tractor, a laterally extending member having a free outer end and an inner end pivotally connected to said mounting plate member for pivotal movement about a substantially horizontal axis, said pivotal connection between said mounting plate member and said laterally extending member comprising horizontally spaced trunnion sleeves on one of said members and a substantially horizontally disposed tube on the other of said members and journaled in said trunnion sleeves, a pair of pistons reciprocable in said tube, a closure plug in said tube between said pistons and cooperating therewith to define a pair of fluid receiving chambers within said tube, means connecting one of said pistons to said laterally extending member and to said mounting plate member to pivot said laterally extending member about said pivotal connection upon reciprocation of said one piston in said tube, a cutter bar mechanism hingedly connected to the free outer end of said laterally extending member, and means connecting the other of said pistons to said cutter bar mechanism to move said cutter bar mechanism about said hinged connection upon reciprocation of said other piston in said tube.

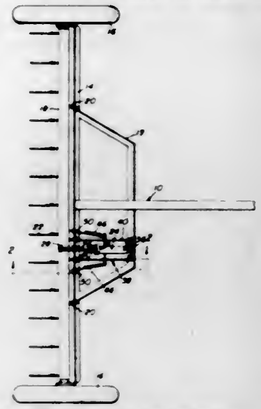
2,663,134
CARRIER FOR MOWER ATTACHMENTS
Herbert J. Bodine, Newtown, Conn.
Application March 31, 1950, Serial No. 153,278
5 Claims. (Cl. 56—25)



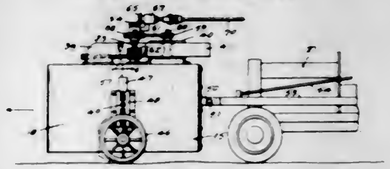
1. A support and carrier for a tractor mower attachment having laterally spaced substantially horizontal side bars including connecting means by which they may be connected to a farm tractor for the mower to form a part thereof and be supported and carried thereby, which connecting means are also releasable to permit disconnection of the mower from the tractor, and the mower also having a laterally extending cutter bar movable into raised inoperative position or into lowered cutting position; said support and carrier being independent of the mower attachment and the tractor and movable to a supporting position for the mower while the mower is attached to and supported by the tractor and comprising a horizontal wheeled frame, two laterally spaced pairs of spaced upright supports mounted on opposite sides of the frame and extending upwardly therefrom in positions so that each pair may be located under one of the side bars of the mower attachment, vertically adjustable side-bar engaging and supporting means on each upright above the frame movable into position to engage and support the side bars, and an outrigger frame member rigidly connected to and extending laterally from said wheeled frame and including a supporting member so positioned relatively thereto as to lie under and support said cutter bar in either raised or lowered position when said carrier is in supporting engagement with said side bars.

2,663,135
CUSHIONING MEANS FOR DUMP RAKES
Maurice T. Sjerslee, Braddock, N. Dak.
Application January 27, 1953, Serial No. 333,451
5 Claims. (Cl. 56—27)

1. In a dump rake including a wheeled frame, a tine holding bar pivotally attached to said frame, tines carried by said bar and a hydraulic cylinder operatively connecting the bar to the frame for pivoting the bar to selectively raise and lower the tines; the improvement of which comprises a cushioning device between the frame and the bar yieldingly restricting upward movement of the tines, said cushioning device comprising a rigid thrust member having a forward portion pivoted to the frame and a rear portion slidably engaging the frame, spring means connecting the thrust member to the frame and yieldingly urging the thrust member rearwardly, and means connecting the forward portion of said thrust member to the cylinder to impart sliding movement to the thrust member in response to swinging of said cylinder.



2,663,136
COTTON PICKER
Clark Walter Toole, Jacksonville, Fla.
Application November 19, 1951, Serial No. 257,045
4 Claims. (Cl. 56—30)

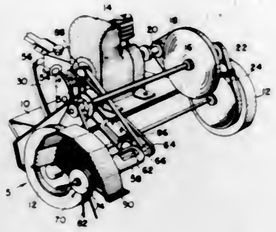


1. A cotton picker comprising a pair of upright housings, a pair of connecting bars at the tops of said housings securing said housings together in spaced parallel relation, each housing including an inner wall diverging forwardly, each inner wall having an opening adjacent the forward end thereof, a vertical picker wheel shaft rotatably carried by each housing, a plurality of spaced toothed picker wheels fixed to each picker wheel shaft, said wheels projecting through said openings, horizontal guard bars fixed to said inner wall across said inner opening and disposed between pairs of said picker wheels, a brush rotatably disposed in each housing and contacting said wheels for removing the cotton from the latter, bearings mounting said brushes in vertical position in said housing, a vertical suction manifold in each housing having an intake opening confronting the junction between said wheels and said brush, a suction member connected with said manifold, and a source of power, vertical drive shafts carried by said brushes, and mechanical connections between said source of power, said drive shaft and said picker wheel shaft for continuously rotating said brushes and said picker wheels.

2,663,137
LAWN EDGER
Charles T. Asbury, Fort Lauderdale, Fla., assignor to Asbury Corporation, Wilmington, Del., a corporation of Delaware
Application August 1, 1951, Serial No. 239,806
7 Claims. (Cl. 56—295)

1. In a lawn edging device; an arm, means at one end of the arm for pivotal connection of

the said arm with a mower or the like, a shaft journaled on the other end of said arm and extending in a direction transverse to the axis of the arm, and a cutting member fixed to one end of said shaft, said cutting member comprising



a central holder portion, and a plurality of substantially V-shaped pieces of twisted wire cable secured to said holder portion with the ends of said cable projecting substantially radially outwardly therefrom to form semi-rigid cutting elements.

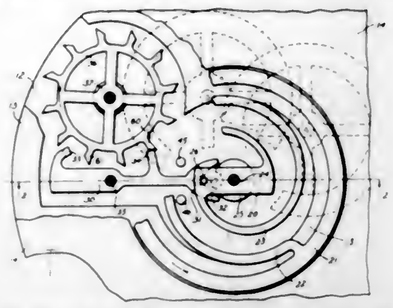
2,663,138
SPINDLE MOUNT
Cory P. Geen, Philadelphia, Pa., assignor to Industrial Devices, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania
Application January 15, 1951, Serial No. 206,059
14 Claims. (Cl. 57—129)



1. A spindle mount comprising clamping elements having confronting clamping faces, means for forcibly urging said elements into clamping relation at opposite sides respectively of a support member, and two sets of elements interposed between the said clamping faces for confinement under pressure between the respective clamping faces and the confronting faces of the opposite member, each of said sets comprising two elements having interseating convex and concave faces relatively adjustable on said seats so as to provide for angular adjustments of the spindle axis with respect to the support member, and one of the interseating elements of each set being composed of resilient material.

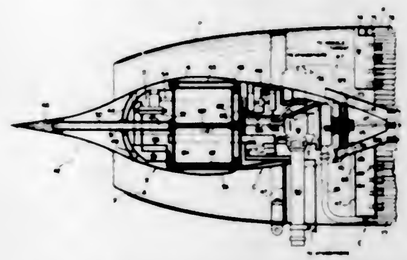
2,663,139
PALLET LEVER CONSTRUCTION
Jean Fink, Delavan, Wis., assignor to Gibbs Manufacturing and Research Corporation, Janesville, Wis., a corporation of Wisconsin
Application October 31, 1949, Serial No. 124,537
5 Claims. (Cl. 58—121)

1. A one-piece sheet metal escapement lever, comprising a main body portion having a fork at one end, two spaced arms projecting from said body portion, said body portion, fork, and arms being all in the same plane, and pallets at the



ends of said arms extending in a direction perpendicular to said plane.

2,663,140
FUEL SYSTEM FOR RAM JETS
Nathan C. Price, Los Angeles, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Original application August 23, 1946, Serial No. 692,423, now Patent No. 2,540,594, dated February 6, 1951. Divided and this application October 20, 1947, Serial No. 780,864
12 Claims. (Cl. 60—35.6)

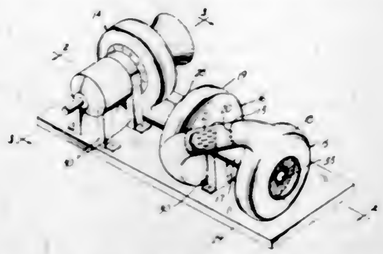


12. A reactive propulsion engine comprising a tubular shell, having a combustion chamber and having a propulsive nozzle at its rear end, an inlet ram for the forward end of the shell comprising a supersonic diffuser, a substantially centrally positioned element in the diffuser for assisting its compressive action, means for supplying fuel to the combustion chamber, a movable throat member for the nozzle, and means in said element for controlling the position of the throat member.

2,663,141
GAS TURBINE
Sigurd Daniel Hage, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware
Application May 3, 1952, Serial No. 285,881
4 Claims. (Cl. 60—39.16)

1. A gas turbine comprising a radial flow turbine, a radial flow compressor driven by the said turbine, a shaft common to the said compressor and said turbine, a diagonal combustion chamber interconnecting the said compressor and said turbine, a burner positioned within the said chamber, a second radial flow turbine to receive the fluid discharge from the said first turbine, a spiral chamber connecting the said turbines, the intake of the said spiral chamber located coaxially with the axis of the compressor turbine,

the said second turbine shaft with its axis perpendicular to but non-intersecting with the axis



of the first turbine shaft, and a reduction gear mounted on the said second turbine shaft.

2,663,142
THERMOJET ENGINE
Walter Hobart Wilson, Long Beach, Calif.
Application December 20, 1951, Serial No. 262,544
17 Claims. (Cl. 60—39.71)



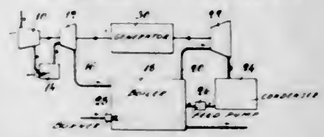
1. A propulsion means comprising a tubular shell and coaxially disposed therein a nozzle and an elongated pilot burner, the rearward end of said pilot burner being disposed towards the forward end of said nozzle, said pilot burner having three concentrically arranged annular chambers, means for delivering a primary fuel to the innermost of said chambers and passing it to the outermost one thereof, means for delivering fuel to the intermediate one of said chambers and igniting said fuel, an annular member partially surrounding said nozzle and spaced therefrom to provide an annular passage therebetween, and means for delivering a main fuel to said passage.

2,663,143
MATERIALS HANDLING APPARATUS
Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 11, 1949, Serial No. 92,581
4 Claims. (Cl. 60—51)



1. In a shaker conveyor, in combination, a reversible hydraulic motor having two working faces of different areas in order to provide the characteristics of moving faster in one direction than in the other for a given fluid supply, a reversing valve, a pump, means including conduit means connecting the pump with the reversing valve and the reversing valve with the motor, a series-wound electric drive motor for the pump having a speed-load relationship such that the drive motor speed increases sharply with a decrease in drive motor load, and means charged with gas under pressure and associated with the hydraulic motor to accelerate said motor at the beginning of each stroke, said means having two chambers charged to different pressures such that the acceleration is greater in one direction than in the other direction, and the effects of greater hydraulic motor speed, greater drive motor speed, and greater acceleration being additive.

2,663,144
COMBINED GAS AND STEAM POWER PLANT
Vilhelm F. A. Nordström, Stockholm, and Dimitrij A. Morosoff, Enskede, Sweden, assignors, by mesne assignments, to De Laval Steam Turbine Company, Trenton, N. J., a corporation of New Jersey
Application May 6, 1948, Serial No. 25,356
21 Claims. (Cl. 60—39.18)

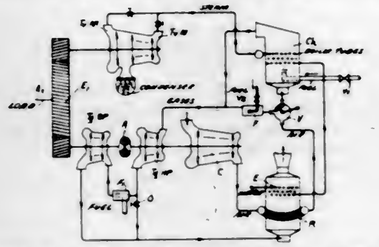


1. A power plant comprising; a primary gas power section of the continuous combustion type having compressor means for compressong a gaseous combustion supporting medium, combustion chamber means for converting said medium into gaseous motive fluid consisting of products of combustion, and gas engine means operated by said motive fluid; a secondary steam power section operated primarily by heat derived from gases exhausted from said gas power section and having steam turbine means and generating means including an economizer section for supplying steam to said turbine means; a regenerator for transferring heat from heating gases flowing through said generating means to the compressed gaseous medium delivered by said compressor means; said regenerator being connected to receive said gaseous medium delivered from said compressor means and to deliver said gaseous medium to said combustion chamber means and being located to be traversed by said heating gases after said gases have left the boiler section of said generating means and before said gases have traversed at least a portion of said economizer section, and conduit means for conducting said motive fluid to said generating means after final expansion in and at substantially the temperature as exhausted from said gas power section.

2,663,145
POWER PLANT COMPRISING THE COMBINATION OF GAS AND STEAM TURBINES WITH A SUPERCHARGED FURNACE STEAM-GENERATOR
Raymond F. M. Waeselynck, Indret, Loire-Inferieure, France, assignor to Societe Rateau (Societe Anonyme), Paris, France, a company of France, and Rene Anxionnaz, Paris, France
Application September 26, 1949, Serial No. 117,746
Claims priority, application France
October 6, 1948
3 Claims. (Cl. 60—39.18)

1. In a power plant including a gas turbine set and a steam turbine set with a steam generator having a burner, both sets being adapted for the delivery of useful external power, the combination of an air compressor driven by at least one turbine of said gas turbine set, duct means from the delivery side of said compressor to the inlet of said gas turbine set, pipe means connected to said duct means and to the burner of said steam

generator for supplying same with combustion air under pressure, a combustion chamber including adjustable means for the delivery of fuel and arranged on said duct means between the connection of same to said pipe means and the inlet of said gas turbine set for supplying said set with hot gas under pressure, adjustable con-



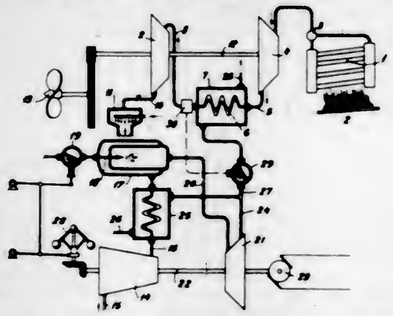
trol means for the delivery of fuel to the burner of said steam generator, and valve means on the connection of said pipe means to said duct means for controlling the parts of air under pressure flowing into said burner and into said combustion chamber, said valve means being adapted to allow cutting off the air under pressure of said burner.

2,663,146

COMBINED GAS AND STEAM POWER PLANT

Robert G. Legendre, Paris, France

Application April 24, 1950, Serial No. 157,682
Claims priority, application France April 26, 1946
4 Claims. (Cl. 60—39.18)



1. In a combined gas and steam power plant, a steam turbine power plant for driving an external load, said steam power plant including a steam generator and two steam turbine stages connected in series through piping means, a device for reheating steam between said turbine stages and including a hot gas line in heat exchange relationship to said piping means, a gas turbine the exhaust of which is connected to said gas line, a constant pressure combustion chamber adapted to supply hot motive gas to said gas turbine and operating independently of said steam generator, an air compressor discharging into said combustion chamber, and a second external load mechanically independent of said first mentioned load and operatively connected to said gas turbine.

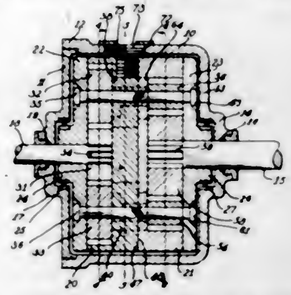
2,663,147

ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION

John H. Dameron, Clinton, Tenn.

Application April 12, 1947, Serial No. 741,075
9 Claims. (Cl. 60—53)

1. In a hydraulic transmission the combination of a combined hydraulic pump-motor housing forming the reaction member for a hydraulic pump at one end thereof and the reaction member for a hydraulic motor at the other end thereof, said pump-motor housing including a pump expansion chamber containing a high pressure area and a low pressure area separated from one another by a driving gear and a pump idler gear, said pump-motor housing including a hydraulic motor expansion chamber containing a high pressure area and a low pressure area separated by a driven gear and a motor idler gear, said high pressure areas of the pump and motor expansion chambers being, respectively, on opposite hands of its driving and driven gears, as viewed from an end thereof, so that the reactive forces on the pump-motor housing are opposed to one another, said pump driving and idler gears being formed to dimensions different from the dimensions of the motor driven and idler gears so that



there is a difference in fluid capacities of the pump and motor and a torque ratio between them greater than one to one, a driving shaft rotatably mounted in said pump-motor housing fixed to said pump driving gear, a driven shaft rotatably mounted in said pump-motor housing fixed to said motor driven gear, a closed fluid circuit between the high pressure areas of the pump and motor, a closed fluid circuit between the low pressure areas of the pump and motor, and means mounting the pump-motor housing, the drive shaft and the driven shaft for independent and unitary rotation so that said pump-motor housing may rotate as determined by the difference in reactive torque on the reactive pump-motor housing and which rotation increases in rate as the torque between the pump and motor approaches a torque ratio of one to one.

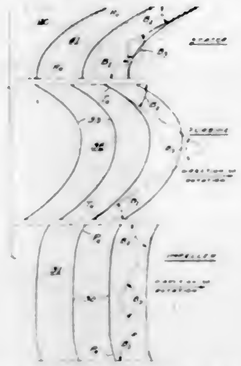
2,663,148

BLADING FOR HYDRAULIC TORQUE CONVERTERS

Vladimir J. Jandasek, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application December 12, 1950, Serial No. 200,319
12 Claims. (Cl. 60—54)

1. A hydraulic torque converter comprising bladed wheels, namely, a pump, a turbine and a reaction member arranged to form a closed fluid circuit in which the pump blade exits and turbine blade entrances are adjacent each other and at substantially the largest circuit radius and the reaction member is between the turbine blade exits and pump blade entrances at substantially the smallest circuit radius, said blades having curvatures providing entrance angles, measured between the middle streamline layer and a surface passing through the entrance ends of the blades, for the pump between 55 to 90 degrees inclined in the direction of rotation of the pump, for the turbine between 20 to 40 degrees inclined counter to the direction of rotation of the turbine, and for the reaction member between 45 to 95 degrees where 45 degrees to 90 degrees is inclined in the direction of rotation of the pump and where 91 degrees to 95 degrees is inclined counter to the direction of rotation of the pump, and said blades having curvatures providing exit angles, measured between the



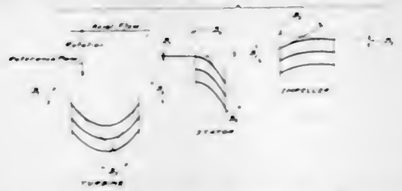
middle streamline layer and a surface passing through the exit ends of the blades, for the pump between 45 to 90 degrees inclined in the direction of rotation of the pump, for the turbine between 20 to 40 degrees inclined counter to the direction of rotation of the turbine, and for the reaction member between 15 to 35 degrees inclined in the direction of rotation of the pump.

2,663,149

ROTARY TURBINE-TYPE HYDRAULIC TORQUE CONVERTER

Reinhold C. Zeidler and William A. Barnes, Detroit, Mich., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application December 30, 1950, Serial No. 203,698
22 Claims. (Cl. 60—54)



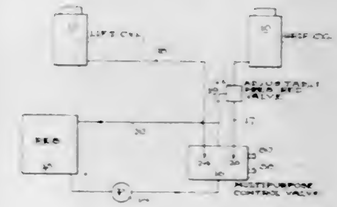
1. A hydraulic torque converter comprising a vaned pump, a vaned turbine, and a vaned stator arranged to form a closed fluid circuit in which the pump vane exits and turbine vane entrances are at substantially the largest circuit radius and the stator is at substantially the smallest circuit radius, said vanes having curvatures providing entrance and exit angles, the entrance angle of each pump vane being between −5 to −35 degrees, of each turbine vane being between +25 to +49 degrees, and of each stator vane being between −15 to +5 degrees, the entrance angle for each vane of the pump, turbine, and stator being measured between an axial plane extending through the intersection of the entrance edge of the vane and the mean flow line on the pressure face of the vane and through a line tangent to the mean flow line at the entrance edge of the vane, the exit angle of each pump vane being between −20 to +30 degrees, of each turbine vane being between −50 to −70 degrees, and of each stator vane being between +45 to +75 degrees, the exit angle for each vane of the pump, turbine, and stator being measured between an axial plane extending through the intersection of the exit edge of the vane and the mean flow line on the pressure face of the vane and through a line tangent to the mean flow line at the exit edge of the vane, an angle being positive when the angle is such that the vane tends to direct the fluid flow toward the direction of rotation of the converter relative to the axial plane, and an angle being negative when the angle is such that the vane tends to direct the fluid flow counter to the direction of rotation of the converter relative to the axial plane.

2,663,150

HYDRAULIC SYSTEM AND MULTIPURPOSE CONTROL VALVE

William C. Dolch, Willoughby, Ohio, assignor, by mesne assignments, to The New York Air Brake Company, New York, N. Y., a corporation of New Jersey

Application May 16, 1950, Serial No. 162,250
4 Claims. (Cl. 60—97)



1. In a hydraulic lift, the combination of a single-acting expansible-chamber lift motor suited to operation under high hydraulic pressure, and controllable in lowering by regulating discharge flow therefrom; a single-acting expansible-chamber accessory motor adapted to operate under a lower hydraulic pressure; means defining a main path for hydraulic liquid; means defining branch paths leading from said main path to respective ones of said motors; a pressure-reducing valve interposed in the branch path leading to the accessory motor and serving to limit the hydraulic pressure which can be developed in the accessory motor; an asymmetric flow valve device interposed in said main path and arranged to permit substantially free flow toward said branches but to restrict flow in the reverse direction; and controllable means for supplying hydraulic pressure-liquid to said main path and for exhausting it therefrom.

2,663,151

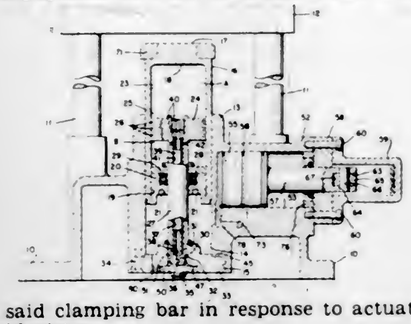
FLUID-OPERATED CLAMPING DEVICE WITH MECHANICAL ADVANTAGE AND DELAYED RELEASE ACTION

Joseph Verderber, Cleveland, Ohio

Application September 9, 1952, Serial No. 308,580
7 Claims. (Cl. 60—97)

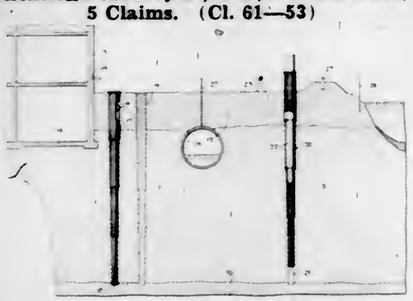
1. In a clamping device actuated by fluid pressure, the combination of a cylinder, a piston slidably mounted in said cylinder, a plurality of slidably mounted camming rods disposed in radially spaced relationship to said piston, means extending transversely of said piston for securing said camming rods to said piston for concurrent colinear movement therewith, a clamp-

ing bar, and a cam follower on said clamping bar engageable by said camming rods to ele-



vate said clamping bar in response to actuation of said piston.

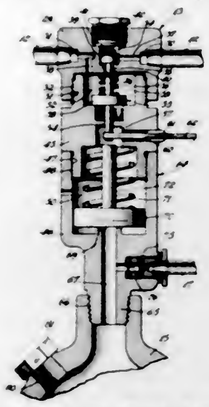
2,663,152
PILE-DRIVING
Linton Hart, Birmingham, Mich., assignor to Raymond Concrete Pile Company, New York, N. Y., a corporation of New Jersey
Application February 12, 1952, Serial No. 271,171
5 Claims. (Cl. 61—53)



4. In the driving of piles and the like into clay formations in the vicinity of structures subject to damage due to displacement of the clay during the driving work, the method which comprises: drilling holes for a small number of piles, each hole being smaller than the pile to be received therein by a percentage such that when the piles are driven into said holes, such an adjacent structure will be displaced only slightly by an observable amount, but insufficient to damage same; driving such small number of piles into place in said holes; observing the adjacent structure to detect whether it has thus started to rise; estimating on the basis of such observation whether the holes for the remaining piles to be driven should differ by a greater or lesser percentage from the piles to be received therein in order to cause said structure to be further displaced only by amounts insufficient to damage same when the latter piles are driven; drilling the holes for the latter piles according to the latter estimates; and driving the piles into place therein and then observing the structure to detect whether it is still only slightly displaced by an observable amount.

2,663,153
FLUID MEDIUM OPERATED TIME DELAY APPARATUS
Harry C. Grant, Jr., Ridgewood, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application March 10, 1949, Serial No. 80,592
10 Claims. (Cl. 62—1)

5. In fluid medium operated time delay apparatus, the combination of a conduit, a source of liquefied normally gaseous medium having an outlet connected to said conduit, a valve in said conduit for controlling the flow of fluid medium therethrough, means normally biasing said valve to a closed position, pressure operated means for unclosing said valve, a receptacle in fluid flow connection with said pressure operated means, a second receptacle for trapping liquid medium and permitting the same to gasify having an in-



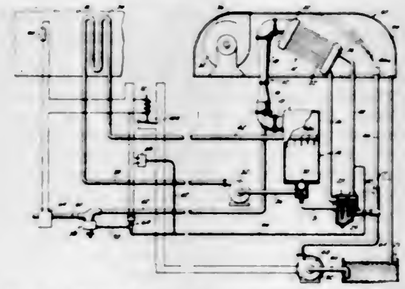
let for liquid medium in fluid flow connection with said conduit at the upstream side of said valve therein and having an outlet at its upper end for discharging gaseous medium therefrom, a second conduit establishing fluid flow communication between said first receptacle and the outlet of said second receptacle, and means for varying the effective volume of said first receptacle.

2,663,154
METHOD AND APPARATUS FOR HANDLING FERMENTATION GAS
Francis A. Craig, Snyder, N. Y., assignor to The Wittemann Company, Incorporated, Buffalo, N. Y.
Application July 19, 1951, Serial No. 237,635
18 Claims. (Cl. 62—1)



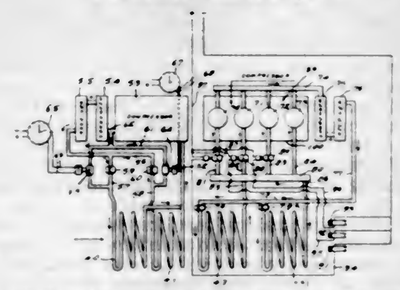
18. Apparatus for handling fermentation gas including a receiver for said gas at low pressure, a compressor having its inlet connected with said receiver and for compressing the gas, a storage tank for compressed gas in vapor phase and normally connected with the discharge of said compressor, a condenser cooled by a refrigerant, a container for liquefied fermentation gas discharged from said condenser, mechanism responsive to pressures in said vapor storage tank and including valves, one of which is normally open when pressure in said storage tank is low to admit gas from said compressor to said vapor storage tank and which is closed by said mechanism when said pressure reaches the desired maximum, the other of said valves being normally closed and being opened by said mechanism when said first valve is closed, to admit compressed gas to said condenser for delivery in liquid phase to said liquid container, a pressure controlled switch which is closed when pressure in said liquid container falls below a desired minimum, and means controlled by said switch to actuate said mechanism to supply compressed gas to said condenser.

2,663,155
AIR CONDITIONING SYSTEM
John D. Strobell, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., New Haven, Conn., a corporation of Delaware
Application October 4, 1949, Serial No. 119,505
12 Claims. (Cl. 62—3)



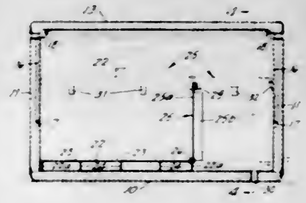
1. In a control for a steam ejector air-conditioning system including a thermostat, an evaporator, means for circulating the coolant, a steam ejector for drawing a partial vacuum on said evaporator, a steam pressure pipe connected to said ejector, a condenser, and means for drawing a partial vacuum on said condenser at the start of a cycle of operation, in combination, a pressure responsive valve controlling the flow of steam through said pipe, means forming a pressure conducting connection between said condenser and said valve, for controlling the position of said valve by the pressure in said condenser, means for disconnecting said connection, and means operatively connecting said last-mentioned means to said thermostat, said thermostat controlling the operation of said disconnecting means and thus the operation of said valve.

2,663,156
APPARATUS FOR COOLING AND DEHUMIDIFYING AIR
Jess F. Baker, Peoria, Ill.
Application March 24, 1952, Serial No. 278,267
3 Claims. (Cl. 62—6)



1. An air de-humidifying and cooling means comprising an elongated housing, means circulating air through said housing, spray means adjacent the intake end of said housing, filter means inwardly of said spray means, dampers inwardly of said filter means, a rear pair of cooling coils in said housing, a cooling means connected with said coils, a second pair of cooling coils forwardly of said first pair of coils, a second cooling means connected with said second pair of cooling coils, thermostatically operated means carried by said housing and connected with said second cooling means for varying the effectiveness of the latter in accordance with the temperature of air leaving said housing, and timed means connected between said first pair of coils and said first cooling means for effecting a defrosting of said first pair of coils.

2,663,157
PORTABLE ICE CHEST FOR STORING FOODS AND THE LIKE
Richard C. Laramy, Joliet, Ill., assignor, by mesne assignments, to Queen Stove Works, Inc., Albert Lea, Minn., a corporation of Delaware
Application February 24, 1951, Serial No. 212,573
6 Claims. (Cl. 62—85)

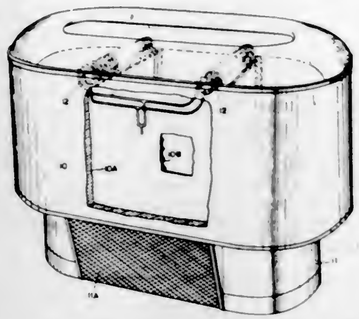


1. A portable ice chest for storing foods and the like comprising an insulated container including a bottom and upstanding sides and ends, said container having an access opening formed therein, a closure adjacent said opening shiftably connected to the container and adapted to be shifted into open and closed positions, a platform mounted in the bottom of said container with means for holding the same in upwardly spaced relation above said container bottom and extending only a portion of the length thereof, a partition hingedly connected along the inner edge of said platform to permit the same to be swung from horizontal to vertical position, and including means for holding the partition in upwardly spaced relation above the container bottom when in horizontal position, the combined length of the platform and the partition being substantially equal to the inside length of the container to provide a substantially continuous raised platform therein when said partition is disposed in horizontal position but dividing the container into a storage compartment and an ice compartment when said partition is raised into upstanding position, and means for releasably holding said partition in upstanding position.

2,663,158
FROZEN FOOD CABINET
Ernest E. Sanders, Garland E. Sanders, and Ellsworth E. Sanders, Detroit, Mich.
Application May 22, 1951, Serial No. 227,692
6 Claims. (Cl. 62—89.5)

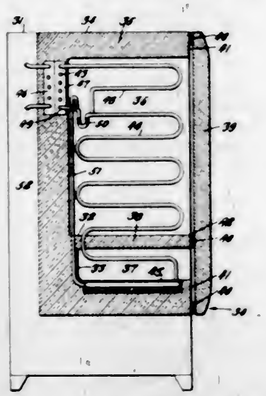
1. A frozen food cabinet having a normally open top and consisting of a heat insulated food receiver having a refrigerating coil lining its vertical walls, an air dehydrating coil extending across the open top of said receiver above the

level of said lining and below the top opening, means for selectively defrosting said dehydrating



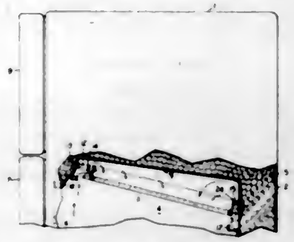
coil, and means for removing the water from said defrosting operation.

2,663,159
REFRIGERATOR EMPLOYING SECONDARY REFRIGERATION SYSTEM
Hugo Malcolm Ullstrand, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application April 26, 1950, Serial No. 158,119
Claims priority, application Sweden July 12, 1949
13 Claims. (Cl. 62—95)



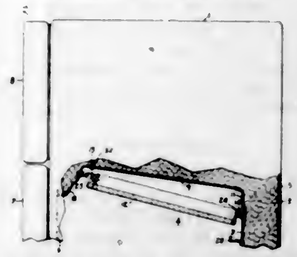
1. A refrigerator including a cabinet having first and second thermally insulated compartments, a primary evaporator having portions operable at average or mean temperatures above and below the freezing temperature of water, a closed heat transfer system containing refrigerant fluid and a non-condensible gas whose specific weight is greater than that of the refrigerant fluid in vapor phase, said system comprising a condensation section in heat exchange relation with both portions of said primary evaporator and a vaporization section including one portion in thermal relation with said first compartment and another portion in thermal relation with said second compartment, and means comprising said closed heat transfer system for transferring cooling effect from both portions of said primary evaporator to said compartments to maintain one of said compartments at an average or mean temperature below the freezing temperature of water and the other of said compartments at an average or mean temperature above the freezing temperature of water.

2,663,160
EVAPORATOR
James F. Young, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application October 2, 1951, Serial No. 249,361
10 Claims. (Cl. 62—103)



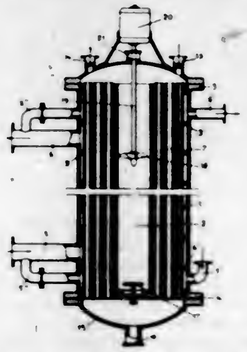
1. A refrigerator including a liner defining a food storage compartment, an evaporator mounted at the top of said compartment for cooling said compartment, said evaporator comprising an extruded section formed into serpentine configuration including a plurality of parallel straight portions arranged in a plane and a plurality of loop portions connecting the ends of said straight portions, said extruded section including a tubular refrigerant-conducting portion and a fin extending upwardly from said tubular portion and extending longitudinally of said tubular portion, said evaporator being disposed with said straight portions extending parallel to the sides of said compartment and being inclined downwardly toward the rear of said compartment for facilitating drainage of water from said evaporator.

2,663,161
REFRIGERATION EVAPORATOR
Frank A. Schumacher, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application October 2, 1951, Serial No. 249,367
4 Claims. (Cl. 62—103)



1. A refrigerator including a liner defining a food storage compartment, an evaporator mounted at the top of said compartment for cooling said compartment, said evaporator comprising an extruded section formed into serpentine configuration including a plurality of parallel straight portions arranged in a plane and a plurality of forward and rear loop portions connecting the ends of said straight portions, said extruded section including a tubular refrigerant-conducting portion and a fin portion extending upwardly therefrom, said evaporator being disposed with said straight portions extending parallel to the sides of said compartment and being inclined downwardly toward the rear of said compartment for facilitating drainage of water from said evaporator, and a strip extending along the forward edge of said evaporator and secured to said forward loop portions, said strip being of saw-tooth configuration on its lower edge, each of the depending teeth being disposed adjacent a corresponding loop portion with the tip of each of said depending teeth being disposed substantially at the line of intersection of said tubular portion and said fin portion.

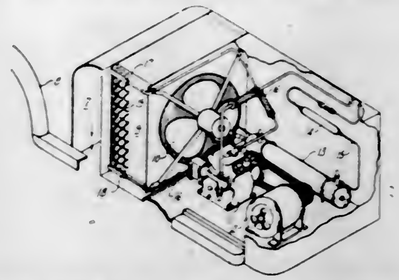
2,663,162
TUBULAR ICE-MACHINE
Georges Trépaud, Paris, France, assignor to The Society Refroidisseur Trepaud S. A. R. L., Paris, France, a corporation of France
Application February 28, 1951, Serial No. 213,203
Claims priority, application France March 1, 1950
5 Claims. (Cl. 62—106)



1. Tubular ice-machine, provided with a cylindrical elongated casing comprising two watertight cross partitions by means of which said casing is separated in three compartments, in the central compartment a large central tube and a plurality of freezing pipes, the lower and upper ends of which are fitted in the two partitions connecting thereby the two extreme compartments, a driving shaft, the axis of which coincides with the axis of the central tube, a screw fastened on said shaft to secure a continuous flow of the water to be congealed in the closed circuit constituted by the central tube, the two extreme compartments and the freezing pipes, a piping for the refrigerating fluid, a piping for the thawing fluid, means to connect the annular space provided between the casing, the central tube and the two cross partitions successively with said two pipings, helical baffles arranged in said annular space, two watertight walls supplementing at each end the watertight partitions in said compartments, inlet and outlet ducts provided at both ends of each of said compartments, the inlet and outlet ducts of the median compartment connecting said compartment with the piping for the refrigerating fluid and the inlet and outlet ducts of the three compartments connecting said compartments with the piping for the thawing fluid.

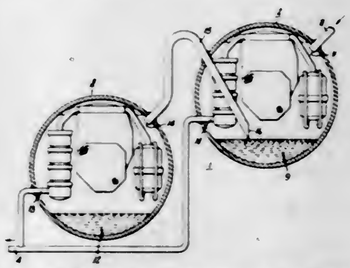
2,663,163
REFRIGERATED TRUCK BODY
Raymond P. Mansmann, Pittsburgh, Pa.
Application May 17, 1952, Serial No. 288,430
1 Claim. (Cl. 62—117)

In a refrigerator truck body, a compressor compartment located below the floor of the truck at the front thereof and forming a part of the truck body, said compartment having side doors on the outside of the body and having an open exhaust passage coextensive with the width of the compartment extending downward below the truck body at the rear of the compartment, a condenser disposed adjacent said exhaust passage and a blower and compressor with accessories



in spaced relation in front of said condenser to maintain an unobstructed flow of air from the door opening of said compartment through said condenser to the exhaust passage of the compartment.

2,663,164
PARALLEL COMPRESSOR ARRANGEMENT IN REFRIGERATING SYSTEM
Lowell M. Kurtz, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application November 2, 1951, Serial No. 254,540
2 Claims. (Cl. 62—117.7)

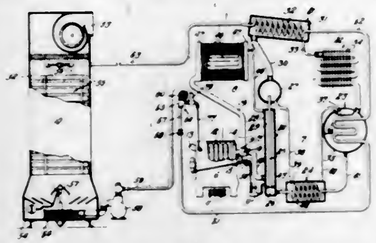


1. In a refrigerating system including an exhaust line and a suction line, the combination of a pair of compressors, each of said compressors having an oil sump, said compressors being commonly connected to said exhaust line, only one of said compressors being connected to said suction line and receiving initially all of the oil and vaporized refrigerant from said suction line and a single tube connecting said pair of compressors, one end of said tube extending into said one compressor and to the normal oil level in the sump thereof, the other end of said tube being connected to the other compressor above the sump thereof, said tube being effective for both equalizing vapor pressures in said compressors and transferring oil exceeding the normal level in the sump of said one compressor to said other compressor for collection in the sump thereof.

2,663,165
ABSORPTION REFRIGERATION
Walter M. Simpson, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 2, 1951, Serial No. 254,560
8 Claims. (Cl. 62—119)

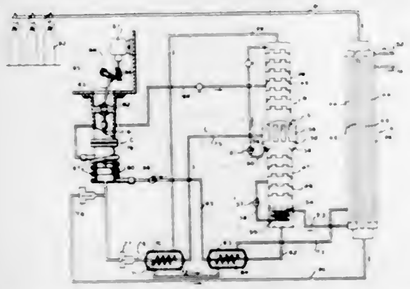
1. In combination with a heat operated refrigeration system having a heat receiving element and a heat rejecting element, means for

heating the heat receiving element comprising a fuel burner and a flue for the products of combustion, a conduit for flowing cooling water in heat exchange relation with the heat reject-



ing element, a Venturi tube in said conduit adjacent the flue and heat rejecting element, and a conduit connecting the flue and Venturi tube to cause flue gases to be drawn into the cooling water.

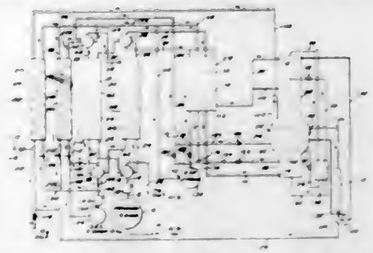
2,663,166
METHOD OF AND APPARATUS FOR PUMPING LIQUEFIED GASES
Carl R. Anderson, Allentown, Pa., assignor to Air Products, Incorporated, a corporation of Michigan
Application August 22, 1949, Serial No. 111,716
20 Claims. (Cl. 62—122)



1. In combination with a fractionating apparatus for separating a mixture of low boiling point gases, a pump adapted to handle liquids, a conduit connecting the suction of the pump with a relatively warm liquid product collecting space in the apparatus, a heat interchanger interposed in the conduit, means for conducting a stream of a relatively cold fluid from the apparatus through the interchanger in heat exchange relation with the relatively warm liquid product for forming a subcooled liquid product flowing toward the pump, heat transfer means associated with the liquid-conveying end of the pump, means for passing a second relatively cold fluid in liquid form from the apparatus through the said heat transfer means, and means for conducting second relatively cold fluid from the heat transfer means to the apparatus.

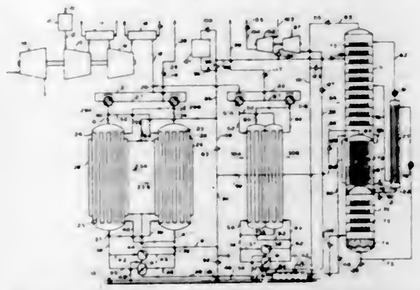
2,663,167
GAS SEPARATION APPARATUS AND METHOD
Samuel C. Collins, Watertown, Mass., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 21, 1951, Serial No. 247,696
21 Claims. (Cl. 62—122)

1. In an air separation system having a source of compressed air, a rectification column having an air inlet and a waste gas outlet, a source of refrigeration, and a waste gas discharge, the improvement comprising: a pair of reversing heat exchangers, each of which has a fluid passage comprising at least one tube and a different fluid passage comprising a shell surrounding said at least one tube, means to pass air from said air source through the shell passage of one of the reversing heat exchangers to the column air inlet, means to pass a cold fluid through the tube passage of said one of the reversing heat exchangers whereby condensable impurities are deposited out of the air onto surfaces disposed in the shell passage of said one of the reversing heat exchangers, means to pass column waste gas from



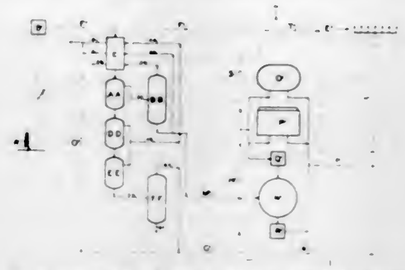
the column waste gas outlet through the shell passage of the other one of the reversing heat exchangers to the waste gas discharge, means to pass a warm fluid through the tube passage of said other one of the reversing heat exchangers whereby previously condensed impurities are removed from surfaces of said other one of the reversing heat exchangers and are carried out through the waste gas discharge, means, including all of said passing means, periodically to interchange the passages through which the air and column waste gas flow and at the same time to interchange the passages through which the cold and warm fluids flow, and means to vary the rate of warm fluid flow between such periodical interchanges.

2,663,168
METHOD FOR DEFROSTING GAS SEPARATION SYSTEMS
Clarence J. Schilling, Allentown, Pa., assignor to Air Products, Incorporated, a corporation of Michigan
Application May 23, 1949, Serial No. 94,878
8 Claims. (Cl. 62—175.5)



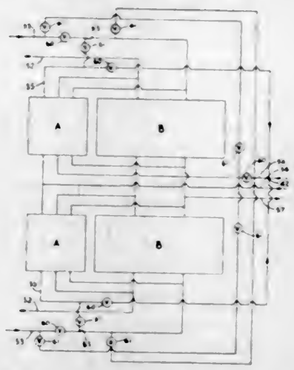
1. In the method of defrosting a low temperature gas separation system by flowing a warming-up gas therethrough, the step of removing from the warming up gas an impurity that is solid at temperatures above the normal operating temperature of the system by cooling the warming-up gas entering the system to a temperature below the freezing point of the impurity but above the normal operating temperature of the system by heat exchange with the gas leaving the system that has been cooled in defrosting the gas separation system.

2,663,169
MANIPULATION OF NITROGEN-CONTAMINATED NATURAL GASES
Lee S. Twomey, Vista, Calif.
Application August 4, 1949, Serial No. 108,633
13 Claims. (Cl. 62—175.5)



1. The method of separating useful groups of components from nitrogen-contaminated natural gas containing propane and heavier hydrocarbons which comprises: partially liquefying said gas and parting a liquid lean in nitrogen from a vapor rich in nitrogen; fractionating said vapor and separating nitrogen from hydrocarbons; partially vaporizing said liquid in a plurality of stages and flashing off a propane-lean vapor in each said stage, and withdrawing from the last of said stages a liquid enriched in propane and heavier hydrocarbons.

2,663,170
HEAT EXCHANGER
Walter Gloyer, La Grange, Ill., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Original application May 10, 1945, Serial No. 592,949. Divided and this application October 10, 1950, Serial No. 189,441
4 Claims. (Cl. 62—175.5)



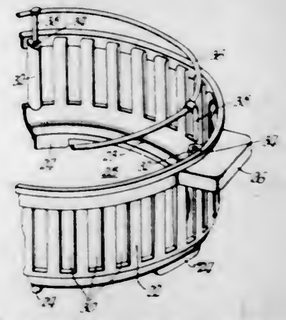
1. A method of cooling air which consists in passing streams of said air each along a passing stream of relatively cold nitrogen, passing a minor number of said air streams each along another passing stream of relatively cold nitrogen, and passing at least some of the remainder of said air streams each along a passing stream of relatively cold oxygen, and quenching said first mentioned passing streams of nitrogen prior to their said passing by said other streams of nitrogen subsequent to said passing of said other streams of nitrogen.

2,663,171
ORNAMENTAL OBJECT HAVING POLARIZING AND BIREFRINGENT LAYERS
Philip Boone, Winchester, Mass.
Application November 22, 1950, Serial No. 197,155
18 Claims. (Cl. 63—32)



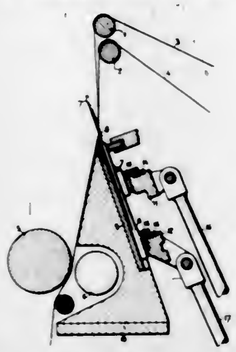
1. A light-modifying device for providing interference colors of a crystal-like quality and improved visibility comprising, in optical alignment, a transparent lens component, at least a birefringent layer, a layer for polarizing light through its surface area, said light-polarizing layer and at least a birefringent layer being bonded together and said light-polarizing layer being bonded to a surface of said lens component, and a light-reflecting layer positioned contiguous one of said birefringent layer and said lens component, the retardation properties and axial direction of said birefringent layer relative to the polarizing direction of said light-polarizing layer being adapted, in cooperation with said light-polarizing layer, reflecting layer and lens component, to provide interference colors of predetermined color, order, intensity and depth, said colors varying in hue, intensity, pattern and depth when different areas of said lens component are observed.

2,663,172
TABLE STAND FOR HOT CASSEROLE DISHES
Bernard Yellin, Chicago, Ill., assignor to Bernard Edward Co., Chicago, Ill., a corporation of Illinois
Application April 14, 1952, Serial No. 282,241
5 Claims. (Cl. 65—61)



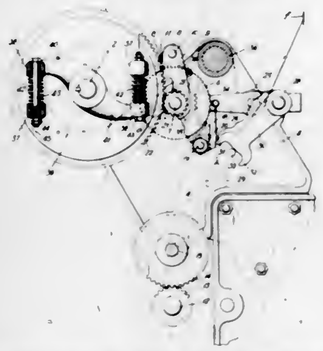
1. A table stand for use with a casserole dish, which dish has a bead along portions of the upper edge thereof which extend outwardly of the wall of the casserole dish, said table stand comprising a plastic support having a continuous upright side wall and an open top, a plurality of bosses formed interior of said side walls and having recesses therein, a continuous metal ring, a plurality of legs depending downwardly from said ring and positioned in the recesses of said bosses, said ring being spaced inwardly of the walls of said plastic support and above the upper edge of said walls, said ring adapted to have a casserole dish inserted therein with the bead of the casserole dish in engagement therewith, whereby the casserole dish is supported by said table stand.

2,663,173
FLAT WARP-KNITTING MACHINE
Lambertus te Strake, Deurne, Netherlands
Application February 2, 1950, Serial No. 141,891
Claims priority, application Netherlands December 8, 1949
3 Claims. (Cl. 66—87)



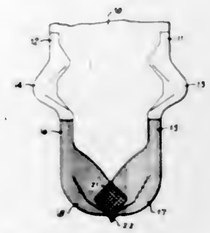
1. A flat warp knitting machine comprising in combination: a needle bed, a first series of needles reciprocably arranged at one side of said needle bed, a second series of needles reciprocably arranged at the same side of said needle bed for movements in the same plane as the first series of needles, the needles of the second series being arranged between the needles of the first series, a first needle bar associated with said first series of needles for reciprocating same, a second needle bar associated with said second series of needles for reciprocating same, first and second actuating means connected with said first and second needle bars for alternate reciprocation thereof and of the two series of needles associated therewith, and at least two thread guiding means arranged above said needles, each thread guiding means including a series of thread guides, and said two thread guiding means being movable relative to each other lengthwise of the needle bed so as to form thread crosses above the latter.

2,663,174
TAKE-UP
Charles C. Jessen, Miami, Fla., assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa., a corporation of New York
Application January 8, 1947, Serial No. 720,852
3 Claims. (Cl. 66—149)



1. A cloth take-up including power driven step by step driving mechanism, a cloth beam, at least one pair of abutments disposed in substantially the same plane and revolvable around an axis substantially at right angles to said plane, of which pair one abutment is connected to said beam to rotate the beam and the other abutment is connected to said driving mechanism to be driven, step by step, by said mechanism, and a spring interposed between the abutments of each pair to receive and store energy of the beam-rotating impulses of the step by step driving mechanism and transfer such energy to the cloth beam.

2,663,175
TOE STRUCTURE FOR FULL-FASHIONED HOSIERY
John A. Pons, Morganton, N. C., assignor to Huffman Full Fashioned Mills, Inc., Morganton, N. C., a corporation of North Carolina
Application January 30, 1952, Serial No. 269,033
1 Claim. (Cl. 66—179)

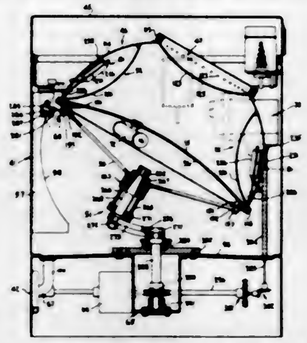


In a full fashioned stocking having sole and outer toe portions each side thereof and the sole and outer toe portions at each side of the stockings being knit from a separate yarn, a diamond-shaped area knit from a yarn independently of the yarns employed in knitting the sole and outer toe portions and being disposed at the foremost point of the toe of the stocking between the sole and toe portions, said yarn of the diamond-shaped area including a few wales in its course at its end furthest from the point of the toe, the number of wales in subsequent courses being increased either side of a given wale from course to course to a predetermined point and then being decreased from course to course to the foremost point of the stocking, the courses in the diamond-shaped area being disposed in the same planes as courses in the sole and outer toe portions of the stocking, the number of wales in the sole portions being decreased from course to course relative to said given wale to said predetermined point and the number of wales in the outer toe portions being increased from course to course relative to said given wale to the foremost point of the toe of the stocking, and terminal loops of the courses formed in the sole and outer toe portions of the stocking being interknitted with the terminal loops in the corresponding courses of the diamond-shaped area.

2,663,176
WASHING MACHINE
George C. Graham, Ridgewood, N. J., assignor to Graham & Barker, Ridgewood, N. J., a limited partnership
Original application July 26, 1944, Serial No. 546,596. Divided and this application November 15, 1948, Serial No. 60,117
5 Claims. (Cl. 68—171)

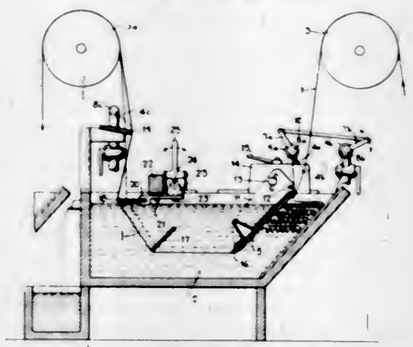
1. In a washing machine, a tub including a wall portion having drain outlets therein, motor operated means to wobble said tub for producing

washing action on articles in the tub, baffle means in the tub including a hollow baffle secured to the wall of said tub over said outlets and having inlets therein for admitting fluid from the tub to the baffle, a guide in said baffle adjacent the wall



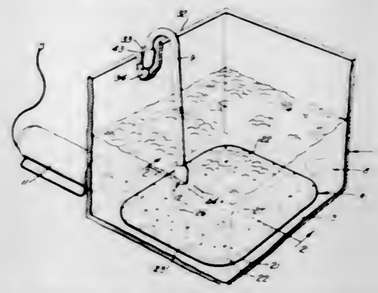
of the tub, a shutter operable in said guide for controlling the opening and closing of said outlets, a fluid operated piston operating said shutter, and control means located outside said tub and connected to said piston for actuating the same.

2,663,177
APPARATUS FOR WET TREATMENT OF A CONTINUOUS WIDE STRIP OF FABRIC
Carl Gustav Hanhart, Thalwil, Zurich, Switzerland
Application February 26, 1948, Serial No. 11,146
In Switzerland October 30, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires October 30, 1966
5 Claims. (Cl. 68—175)



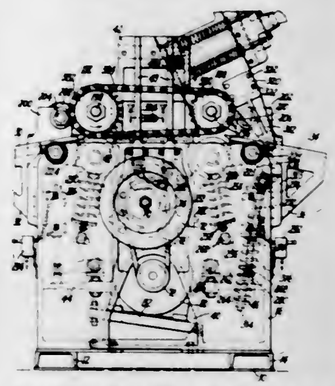
1. An apparatus for wet sliding treatment of a continuous wide strip of fabric with a liquid, comprising a container having an inlet portion for continuously receiving the fabric and having an outlet portion from which the fabric is adapted to be continuously withdrawn, substantially flat guide members disposed in said container, the planes of said members extending substantially transversely to the direction of movement of the fabric in the container and intersecting the fabric, said members individually having a guide edge portion in sliding contact with and diverting the course of the fabric as it moves through the container and being convexly curved in the plane of its member and toward the fabric for bending and spreading the fabric transversely to its direction of movement, one of said members being pivotally mounted in said container and rockable in its plane about a fulcrum disposed on the center line of the convex curvature of said edge portion, and actuating means disposed outside of said container and connected with said rockable member for moving it about its fulcrum.

2,663,178
PNEUMATIC AGITATOR FOR WASHING MACHINES
Hal H. Schwartz, Mill Valley, Calif., assignor, by mesne assignments, to Vibra-Bath Corporation, a corporation of California
Application February 13, 1950, Serial No. 143,855
2 Claims. (Cl. 68—183)



1. A device of the character described comprising, air manifold means adapted for connection to a source of air under pressure and formed for positioning within a wash tray or the like and provided with a plurality of apertures for discharging air streams into liquid contents of said tray, and flow interrupter means imparting a pulsation to air flowing in the direction of said apertures and checking the flow of liquid in a reverse direction.

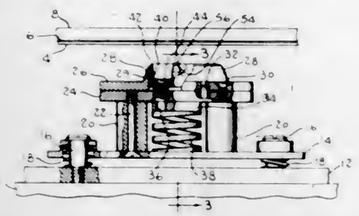
2,663,179
COMPACTING MACHINE FOR HEAVY LEATHER
Richard W. Daniels, Jr., and John J. Maciejowski, Wenham, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 20, 1951, Serial No. 257,336
4 Claims. (Cl. 69—1)



1. In a machine for compacting hides, a frame, means on said frame for feeding a spread-out work piece in a path leading through the machine, tools on said frame comprising reciprocable flat bars arranged transverse and con-

tiguous to said path and anvils arranged in cooperative relation with said bars and at the other side of said path, and a supporting member for said anvils, said member being movable away from said path giving access to said bars and anvils.

2,663,180
DIE FOR CUTTING AND IMPRESSING RELATIVELY THIN LEATHER
Leonard E. Benedict, West Bend, Wis., assignor to Amity Leather Products Co., West Bend, Wis., a corporation of Wisconsin
Application April 23, 1952, Serial No. 283,954
3 Claims. (Cl. 69—2)



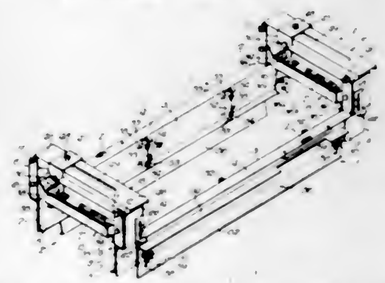
1. A die for both cutting and impressing leather comprising a table adapted for removably receiving a cutting die, a relatively fixed plate on which said table is supported, a movable plate between said table and said fixed plate, mounting pins on said movable plate extending through openings in said table, a cutting die on said table, an embossing die on said pins and normally spaced from said table, and spring means between said fixed plate and said movable plate to resiliently maintain said embossing die spaced from said table.

2,663,181
COMBINATION RUNNER AND BASE
George B. Collman, Seattle, Wash.
Application February 28, 1950, Serial No. 146,750
2 Claims. (Cl. 72—46)



1. A wall runner comprising an elongated body includng a narrow bottom wall midway its width extending its full length and upon which the lower edge of a wall board is adapted to rest, said bottom wall being formed with fastener-receiving openings, diagonally disposed side walls extending upwardly along opposite side edges of the bottom wall at an outward incline and along their upper edges carrying depending vertically disposed walls companion to and spaced outwardly from the walls of the body and cooperating therewith to provide grout-receiving chambers along opposite sides of the runner, lower edges of the depending walls being in the plane of said bottom wall, and tongues cut from the diagonally disposed side walls of said body for the major portion of the depth thereof, each tongue being tapered upwardly and free along opposite side edges, said tongues having lower ends integral with the diagonally disposed side walls adjacent lower edges thereof and being bent upwardly and away from the diagonally disposed walls, said tongues being adapted for engagement with confronting side faces of the wall board, the diagonal walls including openings resulting from bending said tongues outwardly from the diagonally disposed walls, said openings communicating with the grout-receiving chambers and constituting passages through which plastic material is adapted to be forced into the grout-receiving chambers.

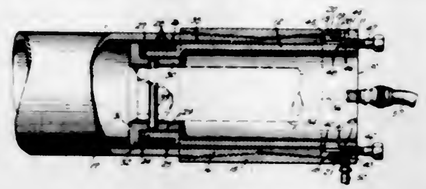
2,663,182
MEANS TO FACILITATE THE LAYING OF MASONRY UNITS
Paul H. Sommers, Montgomery, Ala.
Application January 31, 1950, Serial No. 141,453
21 Claims. (Cl. 72—129)



1. In a device for facilitating the laying of masonry units, a collapsible frame adapted in closed position to form a guide for laying the units and in open position to clear the laid units whereby the frame may be moved, said frame comprising a transverse horizontal reach, a pair of vertical plate arms having parallel flanges along the vertical edges of the upper ends thereof, said flanges embracing the ends of the reach and extending above the same, hinge pins pivotally connecting the ends of the reach with said flanges of the plate arms, the ends of said reach being trimmed above and below said hinge pins at less than a straight angle to each other to provide opened and closed position stops, toggle arms hinged together and having their outer ends hinged to the upper ends of said flanges and vertically disposed brick plates secured to said arms below the level of the reach, the toggle arms being adapted to be put under compression and the reach to be put under tension when the plates are moved to closed position.

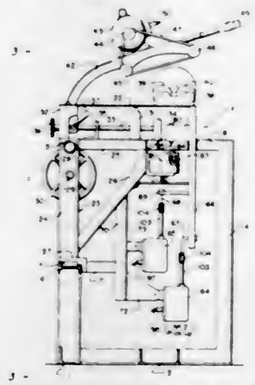
2,663,183
TUBE TESTING APPARATUS
Fritz Huhn, Ventura, Calif., assignor to Western Inspection Company, Incorporated, Midland, Tex., a corporation of Texas
Application April 26, 1951, Serial No. 223,010
2 Claims. (Cl. 73—46)

1. An apparatus for hydrostatically testing the pipe threads at an end of a tube onto which a coupling is screwed in fluid-tight relation, comprising: a one-piece cylindrical member having an outer portion adapted for connection to the outer open end of the coupling, and an inner portion insertable in the end of the tube; a first pressure-resisting sealing means on said outer portion for sealing the outer end of the coupling; a second pressure-resisting sealing means on said inner portion engaging the interior of the tube, said inner portion being of smaller diameter than the interior of the tube and defining with the tube, said outer portion and said first and second sealing means, a closed annular pressure chamber surrounding said inner portion within the tube and coupling; valved passage means in said outer end of said member through which liquid can be introduced directly into said annular chamber to fill the same and through



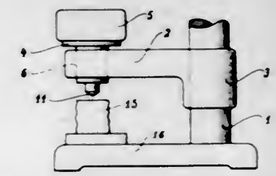
which air can vent directly from said chamber, said passage means being offset radially outwardly from the axis of the member and coextensive with said chamber; pressure-inducing means in communication with said chamber for progressively increasing the pressure of the liquid therein, said first sealing means including an annular recess in said member communicating with the screw thread of the coupling, a passage communicating between the exterior of said member and said recess and through which a sealing medium of high viscosity can be introduced into said recess, and compressing means for forcing said sealing medium from said passage into said recess.

2,663,184
METHOD OF AND APPARATUS FOR BALANCING ROTATING BODIES
Marcellus S. Merrill and Lowell H. Erickson, Denver, Colo.; said Erickson assignor to said Merrill
Application February 17, 1947, Serial No. 728,980
16 Claims. (Cl. 73—66)



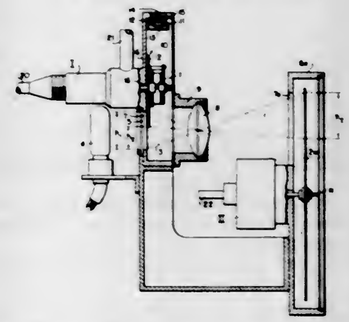
10. The method of setting up a vibratory cradle preparatory to performing balancing operations on a rotatable body wherein the cradle comprises spaced vibratory members independently vibratable, said method comprising placing a body in a non-rotating condition in contact with the members so as to form with the cradle a vibratory system, simultaneously imparting like impulses in axially separated parallel planes generally perpendicular to the axis of rotation to the system including the body, controlling the phase relationship of the vibrations produced by the said separated imparted impulses by varying the relationship of the resonant frequency of the said system with respect to the frequency of the imparted impulses, said system with its spaced vibratory members being capable of determining its own center of oscillation when said separated impulses are imparted thereto, and then controlling the imparted impulses as to direction and frequency so that the cradle with the body thereon in a non-rotating condition will have such sustained oscillation that it will correspond in character to the oscillation produced by the unbalanced condition of the body when the body is rotating on the cradle at a given speed, said controlled imparted impulses in relation to an equivalent unbalance force being known to the operator at the time sustained oscillation takes place.

2,663,185
HARDNESS TESTER
Heinrich Broschke, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany
Application October 20, 1951, Serial No. 252,224
6 Claims. (Cl. 73—81)



1. A hardness tester which comprises a specimen support, a weightable indenter above said specimen support to move downwardly upon weighting toward said support, a holder carrying said indenter, and supporting elements each attached to said holder at a point spaced vertically from its attachment to said indenter and displaceable sidewise between its attachment to said indenter and to said holder respectively.

2,663,186
FUEL-DISTANCE METER
Felix Nieburg, Stockholm, Sweden
Original application September 5, 1944, Serial No. 552,757. Divided and this application July 25, 1949, Serial No. 106,726
3 Claims. (Cl. 73—114)



1. A measuring device for measuring the specific fuel consumption of an engine-driven ve-

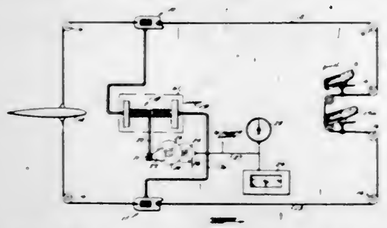
hicle comprising in combination a quantity meter for measuring the momentary quantity of fuel consumed by the engine per unit of time, a speedometer for measuring the speed of the vehicle, means for emitting a band of light, a movable disc connected with one of said meters for rotation and having a contour shaped as a logarithmic curve arranged for screening partially the said band of light, a second movable disc having a reading scale in the form of logarithmic curves and connected with the other meter for rotation, and means for moving said discs in the path of said band of light synchronously with the deflection of the respective meter, the reading-scale disc being located behind the first-mentioned disc for the purpose of receiving, on its reading scale, the band of light partially screened by the first-mentioned disc.

2,663,187

SYSTEM FOR MEASURING AND RECORDING THE FORCES ACTING ON AIRPLANE CONTROLS AND THE LIKE

William W. Wood, Jr., Fenton, and Lester E. Lundquist, Jr., Binghamton, N. Y., assignors to the United States of America as represented by the Secretary of the Air Force

Application December 26, 1950, Serial No. 202,614
5 Claims. (Cl. 73—143)



1. In a force measuring system, a pair of force responsive devices each including a hydraulic bellows and means responsive to cable tension for putting pressure on said bellows to force hydraulic fluid therefrom, a cable attached to each end of said force responsive devices, hydraulic tubes adapted to carry fluid away from said bellows, a hydraulic balanced actuator, connections at each end of said actuator receiving the outer ends of said hydraulic tubes, a central movable spool, hydraulic bellows on each side of said spool, manifolds connected to said bellows for conveying fluid to and from said bellows, a lever pivoted to said spool and to a fulcrum outside the actuator, a potentiometer, means connected to said lever for driving said potentiometer in response to oscillatory movement of said spool and an electric circuit including said potentiometer and a null instrument for indicating the differential magnitude and direction of tension on the force responsive devices as applied by the cable.

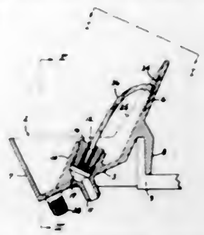
2,663,188

LIQUID METERING AND FLOW INDICATING DEVICE

Seddon C. Nelson, Fredericksburg, Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application September 22, 1949, Serial No. 117,254
8 Claims. (Cl. 73—195)

1. Apparatus for metering a flowing stream of liquid comprising an open top container having a bottom wall and a side wall, means connected to a lower portion of the container for directing liquid into the container comprising an upwardly extending conduit having a calibrated orifice through which a stream of the liquid passes, said conduit having an internal cross-section at the discharge end of greater diameter than the orifice for reducing the velocity of the



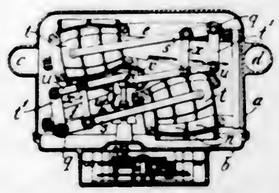
stream of liquid as it passes beyond the orifice into the container, said conduit being inclined from the vertical toward the aforesaid side wall for projecting the stream of liquid through space in a trajectory impinging against the aforesaid side wall, and means connected to the container for discharging the liquid from the container.

2,663,189

DRY GAS METER

Edward Butterworth and Eric John Hinchcliffe, Farnworth, England, assignors to Begwaco Meters Limited, Farnworth, near Bolton, England, a British company

Application July 1, 1952, Serial No. 296,638
Claims priority, application Great Britain July 11, 1951
2 Claims. (Cl. 73—268)



1. A dry gas meter comprising a case, gas inlet and outlet branches on said case, gas metering mechanism and index mechanism in said case, such metering mechanism comprising wall means forming two pairs of diaphragm chambers, a diaphragm between each pair of chambers, a flag rod extending vertically through each pair of chambers, a rigid part attached to each diaphragm and to a flag rod, transfer valves controlling the flow of gas into and out of each diaphragm chamber, the said two flag rods extending to a level above the transfer valves and being disposed at diagonally opposite points in plan of the metering mechanism, two arms each turning freely about a flag rod and connected to a transfer valve, a flag arm rigidly attached to each flag rod, a flag link pivotally connected to said flag arm at one end, a double throw crank shaft operatively connected to the index mechanism, the other end of each flag link being connected to a throw of said crank shaft, a link connecting each flag link at an intermediate point to an arm turning freely about a flag rod, and means on the back of each transfer valve making a second connection between the valve and the arm upon a flag rod so that the valve moves with the arm about the flag rod as an axis, the transfer port in the valve being long in a direction radial to the flag rod axis.

2,663,190

HUMIDITY INDICATOR

Lester M. Ilgenfritz, Mamaroneck, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 16, 1950, Serial No. 196,006
10 Claims. (Cl. 73—335)



1. The combination with an amplifier having an input and an output circuit, a capacitor connected from the output to the input circuit to form a negative feedback connection, a sharply resonant device connected across said input circuit and forming with said capacitor an antiresonant combination, a resistor, sensitive to the humidity of its surroundings, connected in said antiresonant combination to vary the damping of said combination with variations in said humidity and means connected to said amplifier to measure the variations in amplification of said amplifier with variations in said resistor.

2,663,191

TANK THERMOMETER

Frank E. Brown, Burbank, Calif., assignor to Frederick M. Turnbull, Los Angeles, Calif.

Application November 13, 1948, Serial No. 59,862
9 Claims. (Cl. 73—340)



1. In a thermometer adapted to be wholly immersed in a body of fluid, the combination of: a housing, said housing including an intermediate tubular portion having a transparent wall and defining a chamber in which is permanently contained a body of liquid; and a bulb thermometer tube having indicia formed thereupon entirely disposed within said chamber and having at least its bulb portion and the greater portion of its length bearing said indicia completely surrounded by said body of liquid.

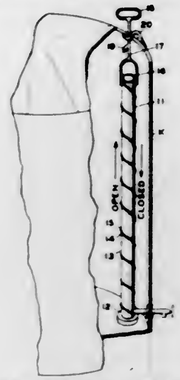
2,663,192

LIQUID SAMPLING DEVICE

August L. Segelhorst, Taft, and Merrill F. Spurlock, Bakersfield, Calif.

Application September 17, 1949, Serial No. 116,284
3 Claims. (Cl. 73—421)

1. A liquid sampling device for a tank having strata of different liquids comprising an elongated sampler tube having one end rigidly attached to the bottom of said tank, said tube comprising a resilient strip helically wound to form a cylindrical tube of uniform cross-sectional area throughout its length, the edges of the turns of said helix being biased to abutting relation when in normal position by the resilient characteristic of said strip, lifting means for applying tension to said strip to cause said turns to be spaced apart and admit a sample of said liquid strata, conduit



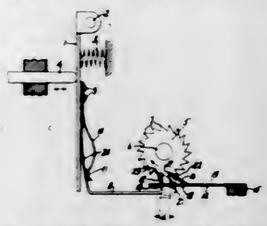
means between the interior of said tube near the bottom thereof and the outside of said tank, and valve means for opening and closing said conduit means.

2,663,193

RATCHET OPERATING MECHANISM

John B. Tucker, Marblehead, Mass., assignor to General Electric Company, a corporation of New York

Application October 27, 1950, Serial No. 192,523
9 Claims. (Cl. 74—152)



1. A ratchet operating mechanism comprising a ratchet adapted to be periodically advanced, a ratchet-advancing member arranged to engage the teeth of said ratchet, and a single fixed stop member, said last-named member including a first portion for engaging a tooth of said ratchet for preventing reverse movement thereof and a second portion for being engaged by said ratchet-advancing member to limit the movement thereof in an advancing direction, said first portion being engaged by said ratchet-advancing member during movement in a reverse direction for actuating said ratchet-advancing member away from said ratchet, said first portion guiding said ratchet-advancing member into engagement with the same tooth engaged by said first portion during movement of said ratchet-advancing member in said advancing direction.

2,663,194

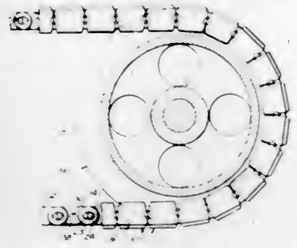
ARTICULATED FRICTION V BELT AND BELT SECTION

Helmer Ogard, Chicago, Ill., assignor to Armstrong-Bray & Co., Chicago, Ill., a corporation of Illinois

Application May 26, 1948, Serial No. 29,309
6 Claims. (Cl. 74—236)

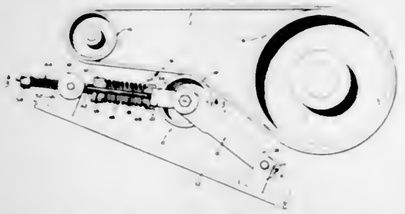
1. A V-belt section for connection with other like sections to form an articulated belt, said sec-

tion comprising a link member and an integral block of friction material, said link member having an opening therein, and said block envelop-



ing the intermediate portion of said link and having portions interfitting with said link and in said opening, and said block portions and said link being bonded together.

2,663,195
BELT TENSIONER
Ralph P. Horan, Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application June 20, 1950, Serial No. 169,203
10 Claims. (Cl. 74—242.11)



10. In a belt tensioning mechanism, an arm having a fixed pivot axis, a second arm freely pivotal at the free end of the first arm, a pivotal fixed axis bearing support for the second arm, an idler pulley pivotal at the pivot connection of the arms, and constant load maintainable means exerted on the second arm, said arms being arranged and maintainable substantially parallel to the slack side of a belt which the mechanism is adapted to tension with the pulley in engagement with the belt at its external periphery on the slack side thereof and wherein the arms are in line with one another and they lie parallel to a portion of the belt to be tensioned when there is no slack therein.

2,663,196
STRIP FEEDING DEVICE
John T. Davidson, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio
Application January 12, 1950, Serial No. 138,226
16 Claims. (Cl. 74—243)



1. A pin type strip feeding device of the type wherein a series of feeding pins is adjustably mounted upon a carrier body for simultaneous movement into and out of operative position, including a carrier body, a plurality of feeding pins pivotally mounted thereon for limited oscillatory motion relative thereto, a rotary actuator for moving said pins relative to the carrier body, a series of projections thereon engageable with said pins to control the oscillatory motion of said pins relative to the carrier body, and a detent carried by said carrier body and engageable with the rotary actuator to maintain the actuator in adjusted position relative to the carrier body.

2,663,197
PIN WHEEL FEEDING UNIT
Albert W. Metzner, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio
Application January 12, 1950, Serial No. 138,233
16 Claims. (Cl. 74—243)



11. A pin type strip feeding device wherein a series of feeding pins are adjustably mounted for simultaneous movement into and out of feeding position, including a pin supporting body, a plurality of pins adjustably supported therein, a plurality of duofunctional resilient pin supporting and pin adjusting members, and an actuator therefor common to and connected to all of said duofunctional members, movement of said actuator causing simultaneous movement of said feeding pins into and out of feeding position.

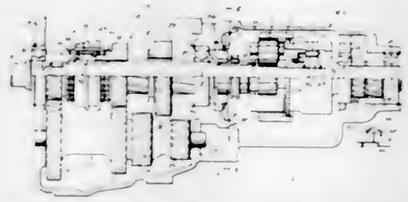
2,663,198
ANTIBACKLASH GEARING
Charles W. Cairnes, Baltimore, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application October 15, 1952, Serial No. 314,860
5 Claims. (Cl. 74—409)



1. A train of gears comprising a first gear, an intermediate gear assembly and a final gear, said intermediate gear assembly comprising a shaft, three gears, means mounting said three gears on said shaft in spaced side-by-side relation, said first gear meshing with the central gear and one of the outside gears of said intermediate gear assembly, said final gear meshing with the central and the other outside gear of said intermediate gear assembly, a pin extending from each of said outside gears through openings formed in the remaining gears of said intermediate gear assembly, the holes in the central gear being larger than the others, and spring biasing means interconnecting said pins.

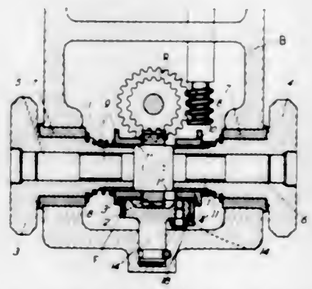
2,663,199
TRANSMISSION CONTROL
William V. Harrison, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application May 22, 1948, Serial No. 28,718
13 Claims. (Cl. 74—472)

4. In an overdrive control mechanism for controlling the operation of a movable pawl engageable with a slotted element, the combination of an electric solenoid for moving said pawl, spring means for moving said pawl from an engaging position to a disengaging position, said solenoid including an energizing coil and a holding coil which when both are energized move the pawl from a disengaging position to an engaging position against the action of said spring means, said holding coil when energized being sufficient for



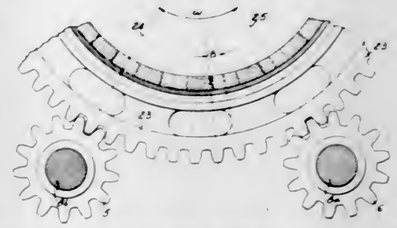
holding said pawl in engaging position against the action of said spring means, and a delay relay connected to be energized along with said solenoid and having a switch connected in series with said energizing winding which is opened a predetermined time after energization of the relay and solenoid for deenergizing the energizing coil, said time being sufficient for a movement of said pawl into its engaging position.

2,663,200
CLUTCH DEVICE
Raymond Godillon, Joinville-le-Pont, France, assignor to L'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude
Application January 27, 1948, Serial No. 4,529
Claims priority, application France January 28, 1947
2 Claims. (Cl. 74—491)



1. In a manual control device of the character described, in combination, two opposite sliding members arranged along a common axis a cam member journalled according to an axis at right angle with the axis common to the sliding members, a fork interposed between each sliding member and the peripheral surface of the cam member, and adapted to freely slide in a parallel direction to the sliding direction of the sliding members, spring means adapted to constantly urge each sliding member and the adjacent fork in mutual engagement with the peripheral surface of the cam member, a single manual operating member adapted to rock about an axis parallel to the rotation axis of said cam member, means for coupling said operating member and the cam member in order to vary the angular position of the latter, and means for selectively locking said operating means in any of the control positions of said cam member.

2,663,201
ANTIVIBRATION GEAR DRIVE
Frederick R. Gruner, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application December 23, 1949, Serial No. 134,685
6 Claims. (Cl. 74—665)

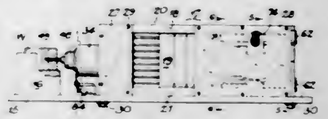


1. In an antivibration toothed gear drive, the combination of an externally toothed driven gear rotatable about a first axis, and gear means meshed continually with and simultaneously applying n additive driving forces to said driven gear (where n is an integer greater than one), said gear means comprising a series of n driving pinions mounted in spaced circumferential relation to said driven gear for rotation about respective pinion axes, said pinions being rotatable in fixed out-of-phase relation to each other with reference to lines drawn through said first axis and said respective pinion axes an amount equal to

$$\frac{1}{n}$$

circular tooth pitch of one of said pinions.

2,663,202
DRILL HEAD
Royal Lee, Elm Grove, Wis., assignor to Lee Engineering Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 18, 1951, Serial No. 237,433
12 Claims. (Cl. 77—32)

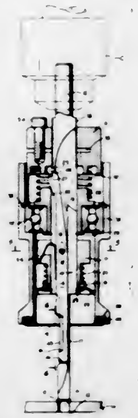


1. Machine tool apparatus, comprising an electric spindle-driving motor reciprocable on feeding and retracting movements, releasable actuating means operable by said motor for advancing said motor on a feeding movement, yieldable means urging said motor toward a retracted position upon release of said actuating means, and electromagnetic control means for engaging and releasing said actuating means at any point in the travel of said motor.

2,663,203
DEBURRING, CHAMFERING, AND COUNTERSINKING TOOL
Armin Fried and Joseph W. Fried, Burbank, Calif.
Application February 12, 1952, Serial No. 271,142
9 Claims. (Cl. 77—73.5)

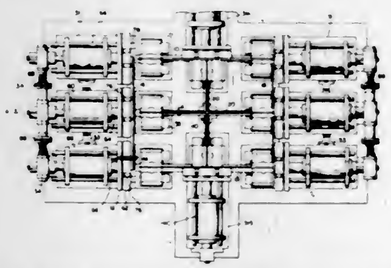
1. A device of the class described comprising a pilot shaft adapted to be rotated about its axis and inserted into a hole to be deburred or chamfered, a blade recessed in said pilot shaft presenting a forwardly directed cutting edge spaced from a rearwardly directed cutting edge engageable with the forward and rear edges of the hole

respectively, a spring and slidable collar assembly about said pilot shaft for causing the blade to assume a position in the pilot shaft wherein the rearwardly directed cutting edge is disposed wholly within the pilot shaft prior to its insertion into the hole, means for causing the blade to assume a position wherein both cutting edges project laterally from the pilot shaft so that the forwardly directed cutting edge may work on the



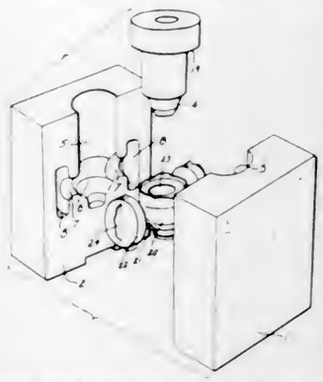
forward end of the hole as the pilot shaft is inserted therein and the rearwardly directed cutting edge may work on the rear end of the hole as the pilot shaft is withdrawn, and means responsive to pressure applied to the rearwardly directed cutting edge for causing the blade to return to a position within the pilot shaft as the pilot shaft is withdrawn from the hole and be held in such retracted position.

2,663,204
MACHINE FOR MAKING FRAMES
Bert E. Rockhoff, Grosse Pointe Farms, and Joseph Mayer, Detroit, Mich., assignors to Detroit Steel Products Company, Detroit, Mich., a corporation of Michigan
Application October 24, 1947, Serial No. 781,984
20 Claims. (Cl. 78—49)



19. A sash assembly machine operable to assemble and interlock two opposed pairs of sash border bars with crossed muntin bars into a rectangular sash, said bars having interfitting slots and tenons, said machine comprising a base, locating means on said base for holding the crossed muntin bars in accurately located position, a first pair of opposed bar supporting heads movable on said base toward and away from said locator means and each other, a second pair of opposed bar supporting heads movable on said frame toward and away from said locator means and each other in a direction at right angles to the path of movement of said first pair of bar supporting heads, each of said heads comprising a tenon-upsetting ram rigidly connected thereto, and a bar support yieldably carried thereby, means for simultaneously moving the first pair of heads toward each other to assemble an opposed pair of border bars with the muntin bars and to cause said rams to upset tenons projected through slots in the pair of border bars, and means for thereafter simultaneously moving the remaining pair of heads toward each other to assemble the remaining pair of bars with the muntin bars and first pair of bars and to upset tenons projected through slots in the second pair of border bars.

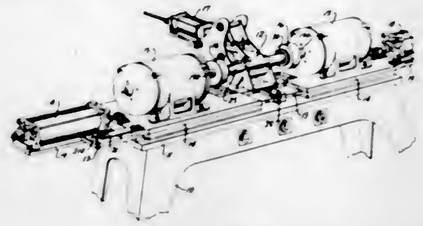
2,663,205
FORGING PROCESS AND APPARATUS
Herbert Allen, Houston, Tex., assignor to Cameron Iron Works, Inc., Houston, Tex., a corporation of Texas
Application May 6, 1949, Serial No. 91,767
4 Claims. (Cl. 78—60)



1. Forging apparatus comprising, in combination, a plurality of complementary die sections each having a portion of a die chamber therein and being adapted when together to form a die chamber adapted to receive a billet to be forged, a die chamber substantially smaller than said first die chamber adapted to mould a part of the forging, an orifice communicating with said second die chamber and extending therefrom in a direction substantially at right angles to the axis of said first die chamber, and a third die chamber communicating with the opposite side of said orifice, a punch not larger than the first of said die chambers and adapted to be moved into such first die chamber, and cooperating means on said die sections and punch for limiting the movement of said punch into said die chamber.

2,663,206
METHOD AND MEANS FOR PRODUCING CLOSED END TUBING
Richard L. Whiting and Robert E. Whiting, Detroit, Mich., assignors to Whiting Tubular Products, Incorporated, a corporation of Michigan
Application March 15, 1950, Serial No. 149,709
2 Claims. (Cl. 78—89)

1. A tube closing die comprising a die block having an annular substantially smooth preheat ring whose diameter is substantially the same as the diameter of a tube to be ended thereby and a generally semi-spherical shaped imperforate cavity inwardly of the said annular pre-heat ring, and a plurality of axially disposed straight ribs extending above the surface of the said cavity, each rib being deepest at approximately the center thereof and fading out at the pre-heat ring and near the center of the die, the



said ribs being relatively flat and shallow beginning at a point inwardly of the face of the die, relatively deep and wide at the longitudinal central portion thereof, and relatively shallow and narrow at the portion thereof fading out near the center of the die.

2,663,207
JEWEL SETTING TOOL FOR ASSEMBLY OF WATCH PARTS
Oram E. Miller, Willow Grove, Pa.
Application January 7, 1949, Serial No. 69,655
4 Claims. (Cl. 81—7)



1. A jewel setting tool for use in the assembly of watch parts including a horizontal plate member, a vise jaw fixed to said plate member, a second vise jaw supported on said plate member for movement toward and away from said first jaw, each of said jaws having a matching notch to accommodate jewels and the plate member having an opening near each pair of notches to accommodate a roller plate.

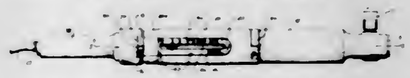
2,663,208
BAIL FOR FACILITATING THE APPLICATION OF TIRE CHAINS
Edward C. Yates, Beckley, W. Va.
Application June 29, 1951, Serial No. 234,183
1 Claim. (Cl. 81—15.8)

A device for applying antiskid chains to pneumatic tires comprising a rod-like bail having a center portion provided substantially at its midlength location with a U-shaped projection, intermediate portions extending one from each end of said center portion substantially perpendicular to a plane including the center line of said center portion inclusive of said U-shaped projection, and end portions extending substantially perpendicularly one from each of said intermediate portions at the ends of the latter remote from said center portion and in the same direction



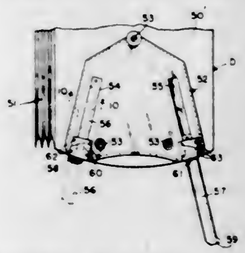
from said center portion as said U-shaped projection, said end portions being longitudinally curved with their concave sides adjacent said center portion and each having a chain link engaging hook at the ends remote from the corresponding intermediate portion.

2,663,209
TORQUE INDICATING POWER OPERATED TOOL
Harold O. Gummere and Eugene Linsker, Dayton, Ohio, assignors to Buckeye Tools Corporation, Dayton, Ohio, a corporation of Ohio
Application April 12, 1949, Serial No. 86,982
11 Claims. (Cl. 81—52.5)



1. In a power operated tool, a supporting structure, a rotatable work engaging member carried by said structure, power means connected to said structure at one end for rotating said work engaging member with relation to said structure and having an overhanging end opposite said connected end, manually operable handle means connected to said overhanging end for rotating said structure and said work engaging member about the axis of said member when the power of said power means is insufficient to rotate said member, and means carried by said handle means for indicating the value of the rotative force asserted thereby on said work engaging member.

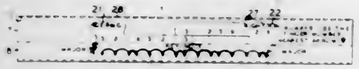
2,663,210
KEYBOARD STEADYING DEVICE FOR ACCORDIONS AND SIMILAR INSTRUMENTS
Anthony Montenare, Reading, Pa.
Application April 10, 1952, Serial No. 281,509
8 Claims. (Cl. 84—376)



1. An attachment for an accordion, concertina or the like, consisting of a supporting means, and means movable with relation to said supporting means from an operative to an inoperative position, said last-named means including spaced

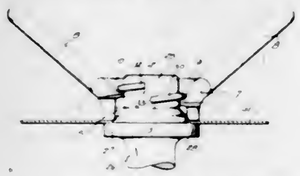
arms, said supporting means including a plate and means for removably supporting said plate on one of the side walls of an accordion, concertina or the like, said arms being located in substantially the same plane as said plate in both their operative and inoperative positions, said arms when in operative position and when operated by a player in sitting position extending on both sides of the knee of a player, whereby to prevent oscillation of said accordion, concertina and the like while operating the bellows thereof.

2,663,211
FINGER TO PIANO KEY INDICATOR
Leta Wallace, Kansas City, Mo., assignor of one-third to Amy Winning, Kansas City, Mo.
Application August 31, 1951, Serial No. 244,509
2 Claims. (Cl. 84—485)



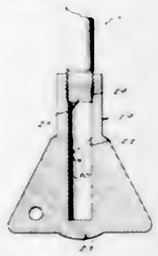
1. An indicator for correct fingering of a piano comprising an S-shaped holder, a slide of flat material having a right hand portion narrower than a left hand portion and having indications thereon for the left hand fingering fitted into one portion of said S-shaped holder, a second slide of flat material having a right hand portion wider than the left hand portion and having indications thereon for the right hand fingering, said second slide being fitted into another portion of said S-shaped holder parallel to said first slide.

2,663,212
SANITARY FASTENER
Roy O. Henszey, Oconomowoc, Wis.
Application November 3, 1950, Serial No. 193,913
4 Claims. (Cl. 85—1)



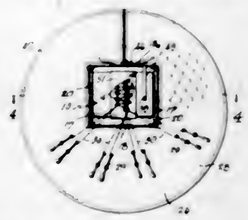
1. In a sanitary fastener for exposure to contaminable fluids, a bolt element having a radial head with an axially exposed bearing surface, a neck portion adjacent said head, and a smooth-walled and generally cylindrical thread-bearing portion materially smaller in cross section than the neck portion and having a tapering shoulder connecting it with the neck portion, a single thread of approximately 360° helical extent projecting radially outwardly from the thread-bearing portion of the bolt and having its base concavely curvilinearly merging smoothly with the thread-bearing portion aforesaid, the ends of said thread being widely spaced to provide open clearance between said ends, and a nut having crest and bearing ends, and an intervening smooth-walled annular internal surface convexly curvilinearly tapering inwardly from the crest end of the nut, and a single thread of approximately 360° extent projecting radially inwardly from said annular surface and having its base concavely curvilinearly merging with said annular internal surface, the pitch of said thread being complementary to that of the bolt and the two threads being in bearing engagement substantially through their extent, the said internal smooth-walled surface of the nut being spaced from the thread-bearing portion of the bolt in excess of the radial depth of the respective threads and the said space opening between the ends of the respective threads through the crest end of the nut, the nut being further provided with passages opening through its bearing end communicating with such space.

2,663,213
LUBRICATED WING NUT
Noland D. Davidson, Ellisville, and Erskine J. Henderson, Laurel, Miss.; said Henderson assignor of one-fourth to Fred Walters, Laurel, Miss.
Application October 24, 1950, Serial No. 191,806
1 Claim. (Cl. 85—32)



A nut of the character described comprising an elongated tubular body closed at its bottom end and formed with internal threads solely at its upper portion, a pair of diametrically opposite, substantially right triangular, downwardly flaring radial wings integrally formed on the lower portion of said body and terminating substantially at the lower end of said body, one of said wings being apertured, whereby a fastening member may be secured thereto, and a grease fitting secured to the intermediate portion of said body and communicating with the interior thereof a substantial distance below said internal threads, the internally threaded portion of said tubular body being formed at a substantial distance below the top end of said body with an aperture allowing grease to escape from said body below the end of a bolt when the body is threaded onto the bolt whereby excess lubricant is discharged from said body until the bolt has engaged a substantial number of the internal threads in said body, after which the lubricant is compressed by the bolt.

2,663,214
RIBBON LOOM
Marguerite G. Brooks, Darien, Conn.
Application October 2, 1952, Serial No. 312,726
6 Claims. (Cl. 87—31)



1. A ribbon loom of the character described comprising an open topped box member having upright end and side walls, a substantially cylindrical bolster mounted in the box to turn about

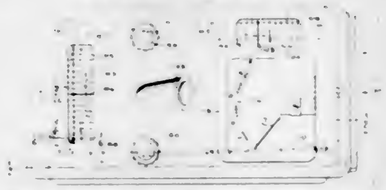
a substantially horizontal axis and provided with a surface to receive pattern pins, and a supporting field for bobbins extending about the box including a portion at the front of the bolster inclined downwardly and forwardly therefrom to support the bobbins and maintain a tension on the threads extending from the bobbins to pins in the bolster.

2,663,215
METHOD AND APPARATUS FOR DETERMINING THE VELOCITY AND ACCELERATION CHARACTERISTICS OF MOVING OBJECTS
Fordyce E. Tuttle and Walter C. Newcomb, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 27, 1950, Serial No. 158,620
7 Claims. (Cl. 88—14)



1. The method of obtaining a visual indication in stereo of the velocity characteristics of a moving object comprising the steps of making a photographic record of the moving object by photographing it on a sensitized surface through a lined screen moved across and substantially at the focal plane with a uniform velocity and in a direction substantially parallel to that of the movement of the object, the transparent lines of said screen separated by a distance equal to a multiple of the width of said lines; placing in front of said photographic record a lined viewing screen identical with the one through which the exposures were made orienting said viewing screen with respect to the record the same as the exposing screen was during the exposure of said record; and spacing said viewing screen from the photographic record in parallel relation thereto by an amount such that when the record is binocularly viewed through said screen opposite eyes of the observer will simultaneously see through each line of the viewing screen different "time frames" of the record which are physically separated, whereby an image of the object will appear in stereo, the stereo effect varying directly with the velocity of the object.

2,663,216
HEADLIGHT TESTER
James P. Carr, Lansing, Mich., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application April 1, 1950, Serial No. 153,474
9 Claims. (Cl. 88—14)



1. In a headlight tester, the combination of: a housing forming a chamber, said housing having a front wall with openings for the admission of light into said chamber; a light sensitive cell mounted on said front wall to face inwardly and having its axis coincident with and in fixed relation to a predetermined reference axis of the tester; a concave focusing reflector disposed at the opposite end of said chamber from said cell; a mount supporting said reflector for universal movement relative to said cell and having the pivot point thereof coincident with and in fixed relation to said reference axis; manually operable means for controlling the universal movement of said reflector about said pivot point; and a candle-power meter operatively connected with and responsive to said light sensitive cell for measuring the intensity of the light reflected onto said cell by said reflector.

2,663,217
METHOD FOR DETERMINING THE VELOCITY AND ACCELERATION CHARACTERISTICS OF MOVING OBJECTS
Fordyce E. Tuttle and Walter C. Newcomb, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 27, 1950, Serial No. 158,621
6 Claims. (Cl. 88—14)

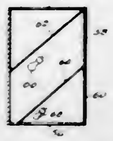


1. The method of determining the acceleration characteristics of an object moving at high speed with a substantially rectilinear motion comprising the steps of making a photographic record of the moving object by photographing it on a sensitized surface through a lined screen, the transparent lines of which are separated by distances equal to a multiple of the width of said lines, moving said screen during the exposure across the focal plane with a uniform velocity sufficiently high to substantially stop motion of the object on said surface, and in a direction substantially parallel to that of the movement of the object and by an amount such that each line of the screen travels a distance equal to a multiple of the spacing between two adjacent lines, whereby said surface is multiply exposed at successive equal time intervals with composite pictures of said object in different positions of its movement each made up of line images corresponding in dimension and spacing with the lines of said screen; placing in front of said photographic record a lined screen like that through which it was exposed but stationary relative to said record and with the lines thereof aligned with certain image elements of said record, whereby a plurality of separate composite pictures of the object will be seen displaced from each other along said record in the direction of movement of the object, for determining the relation between the displacement of successive pairs of these observed composite pictures to ascertain the acceleration characteristics of the moving object.

2,663,218
OPTICAL DEVICE FOR CORRELATING OBSERVER READING AROUSAL VALUES
Emil L. Ranseen, Chicago, Ill., assignor to Harold L. Feigenholtz, Chicago, Ill.
Application November 18, 1949, Serial No. 128,200
2 Claims. (Cl. 88—20)

1. A device of the class described comprising a housing having an observer's window and a

subject's window mutually facing each other, said housing having a plurality of supports for visual material, a plurality of transparent, diagonally arranged mirrors in said housing between said windows, each of said mirrors facing the subject's window and one only of the supports and arranged to reflect an image of visual material



from said support to the subject's window and lighting means carried and disposed within said housing, said lighting means comprising separate single lighting units for each of said mirrors and supporting units, said single lighting units being adapted to be selectively manipulated whereby the dominance of transparency over reflection respecting said mirrors is controlled.

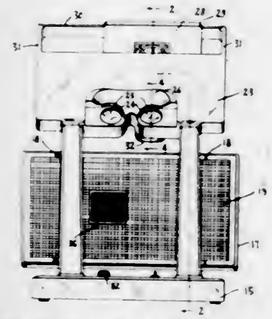
2,663,219

OPHTHALMIC INSTRUMENT

Charles A. Ellis, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application December 30, 1950, Serial No. 203,661

7 Claims. (Cl. 88—20)



5. In a device of the character described, the combination of a support having a flat surface and means for holding in place thereon a target field having a fixation form, a shield member spaced therefrom and having a pair of sight openings provided with lenses through either of which said target field when in position on the surface of the support may be viewed, said device having a target carrier mounted to one side of said sight openings to carry a fixation form similar to that on said mentioned target field, and reflective means slidably mounted on said shield member for movement in directions transversely thereof so as to be selectively positionable before each sight opening, means for aligning said target carrier with said reflective means to permit one to view through said sight opening the fixation form carried by the target carrier when thereon and said reflective means substantially obliterating view through said opening of the target field whereby in the use of the device one eye of the patient is caused to see only the fixation form carried by the target carrier while his other eye is caused to see only the fixation form on the target field, together with means for adjusting said target carrier to permit said two fixation forms to be fused when viewed together by the patient.

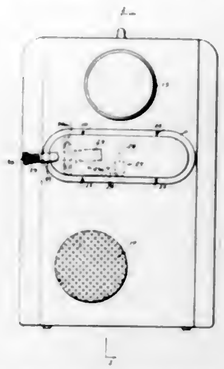
2,663,220

INDICATING OPTICAL IMAGE PROJECTION APPARATUS FOR PROJECTORS

James Y. Taylor, Garland, Tex.

Application August 24, 1951, Serial No. 243,543

10 Claims. (Cl. 88—24)



1. In a device of the character described for projecting an indicating optical image on a projected image on a screen, a support adapted to be secured on a projector, a source of illuminat on carried by said support, a first tubular member on said support and optically aligned with said source of illumination and having an aperture of the configuration of which an image is to be projected to form said indicating image, a second tubular member in telescoping relation with said first tubular member, said second tubular member having a handle portion adjacent its free end, said second tubular member being rotatable relative to said first tubular member and a pivotally mounted reflector carried by said second tubular member adjacent its free end and in optical alignment with said source of illumination whereby said reflector may be moved longitudinally and rotated to project said image of said aperture to any desired point on a screen.

2,663,221

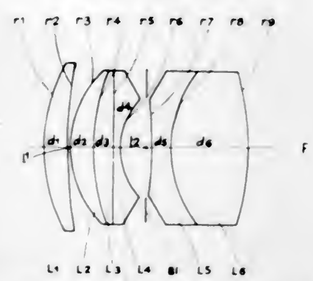
OPTICAL OBJECTIVE COMPRISING SIX LENSES GROUPED INTO THREE AIR SPACED COMPONENTS

Ludwig Jakob Bertele, St. Gall, Switzerland

Application August 28, 1950, Serial No. 181,847

Claims priority, application Switzerland September 8, 1949

8 Claims. (Cl. 88—57)



1. An optical objective made up of six lenses grouped into three components separated by air spaces of which the first lens counting from the object side is a converging lens constituting the first component, the second, third and fourth

lenses constitute the second component which is of meniscus form convex towards the object, and the fifth and sixth lenses are of negative and positive power respectively and constitute the third component the air space between said first and second components having the form of a diverging lens convex towards the object and the air space between said second and third component having the form of a converging lens with its more strongly curved face towards the object, characterised in that the difference between the refractive indices for the d-line of the fifth and sixth lenses exceeds 0.165 and that the radii of curvature of the adjacent surfaces of the said lenses are greater than 0.38f and less than 0.50f where f is the focal length of the complete objective.

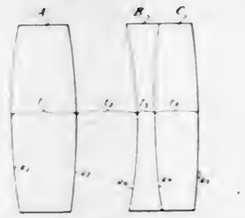
2,663,222

THREE-ELEMENT OBJECTIVE LENS WITH REDUCED SPHERICAL ABERRATION AND CHROMATIC DIFFERENCE OF SPHERICAL ABERRATION

Seymour Rosin and Angela M. Bottalico, New York, N. Y., assignors to Farrand Optical Co., Inc., New York, N. Y., a corporation of New York

Application February 23, 1951, Serial No. 212,248

5 Claims. (Cl. 88—57)



1. A three-element objective lens corrected for spherical aberration and chromatic difference of spherical aberration, said lens comprising a double convex crown singlet air-spaced from a cemented doublet including a double concave flint element adjacent the singlet and a double convex crown element, the surfaces of all of said elements having finite radii of curvature, the ratio of the sum of the surface refracting powers of the surfaces of the singlet to the total refracting power of the lens lying between 1.75 and 2.5 and the ratio of the axial separation of the singlet and doublet to the focal length of the lens lying between .035 and .1.

2,663,223

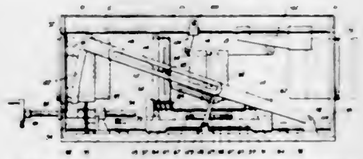
VARIABLE MAGNIFICATION OPTICAL SYSTEM

Harold Horace Hopkins, London, England, assignor to W. Watson & Sons, Limited, London, England, a British company

Application July 13, 1951, Serial No. 236,482

Claims priority, application Great Britain July 18, 1950

8 Claims. (Cl. 88—57)



1. A variable magnification optical system comprising two normally stationary lenses, having powers of like sign, and two movable lenses, having powers of like sign which is opposite to the sign of the normally stationary lenses, all of which lenses are arranged on a common optical axis with the movable lenses between and spaced from the two normally stationary lenses and movable over a limited range between them, and magnification-varying mechanical adjusting means operable to effect simultaneously movements of the two movable lenses, relative to the normally stationary lenses and relative to each other, in the axial direction and according to a law such that the distance, from the normally stationary lenses, at which the image of an object at a fixed distance from the normally stationary lenses is accurately focussed by the system remains constant while the size of the said image is continuously varied during the operation of the magnification-varying means, in which system the movable lenses are compound, are optically identical at least in respect of the radii of their optical surfaces, their glasses and the thicknesses of their components, are arranged with their refracting surfaces symmetrically positioned about a point on the axis midway between the movable lenses and are substantially corrected for coma and spherical aberration at one limit of the range of movement of the movable lenses, whereby the change in coma and of spherical aberration of each movable lens during variation of the magnification is substantially compensated continuously by a change of coma and spherical aberration of the same magnitude, but of opposite sign, in the other movable lens.

2,663,224

REARVIEW MIRROR FOR AUTOMOBILES

David Younglove, Ilion, N. Y.

Application October 20, 1949, Serial No. 122,405

1 Claim. (Cl. 88—87)



A rear view mirror for an automobile mounted on the automobile and including an upper fixed section, and a lower movable section, said sections having straight horizontal coplanar and dividing edges, and means pivoting the lower section to the upper section for lateral swinging about an axis perpendicular to said edges into and out of coplanar relation to said upper section comprising a pair of lateral superposed lugs on one and the same end of each of said horizontal edges and on the same side of said sections at said edges, and a vertical pivot pin securing said lugs together in friction locking relation, said edges of the sections coengaging in the coplanar relation of the sections so that the lower section supplements the upper section.

2,663,225

REARVIEW MIRROR MEANS

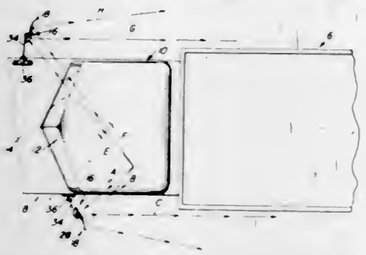
Clayton D. Blan, Tucson, Ariz.

Application December 11, 1950, Serial No. 200,205

1 Claim. (Cl. 88—87)

A dual mirror assembly for rear view use on the exterior of the body of a motor vehicle comprising a primary inwardly disposable mirror having a backing plate provided with a marginal frame with said mirror fitted in said frame and

against said backing plate, upper and lower spaced parallel ears integral with and extending at right angles from said backing plate, said ears having free disconnected end portions having bearing means spaced from the backing plate and adapted to straddle and be pivotally mounted on a vertical spindle portion of a relatively stationary attaching and supporting bracket, each ear being provided, in close spaced parallelism with the backing plate, with an elongated pintle-accommodating slot, the respective slots being in registry one above the other, a complemental secondary outwardly disposable mirror embodying a mirror and a supporting frame therefor, a



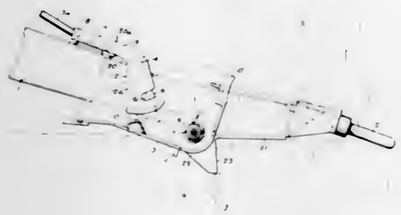
flat hinging leaf having one end portion superimposed against and secured to the frame of the secondary mirror and having its opposite end end portion projecting beyond one marginal edge portion of said secondary mirror and situated in the space between said ears, a hinging pintle spanning said space having its end portions slidably mounted in the respective slots, the projecting end portion of said hinging leaf having a knuckle and said knuckle being attached to and operable in conjunction with said pintle pin, whereby to permit said mirrors to be adjusted as a unit as well as independently in relation to one another.

2,663,226

FOLDING SPADE FOR GUN CARRIAGES

Richard E. Meyer, Falls Church, Va., and Orie L. Beardsley, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army

Application May 17, 1951, Serial No. 226,922
4 Claims. (Cl. 89—40)
(Granted under Title 35, U. S. Code (1952), sec. 266)



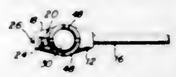
1. In a gun mount, an emplacing member extending rearwardly of said gun mount, a folding spade pivotally mounted upon said emplacing member and rotatable in counterclockwise direction from a first stowed position to a second firing position and latching means, pivotally mounted upon said emplacing number for rotation about an axis parallel to and located forwardly of said folding spade, adapted to engage said spade and to lock said spade in either relative position.

2,663,227

NOZZLE ADAPTER SEAT REFACING DEVICE

Fred A. Licciardello, North Andover, Mass.

Application August 9, 1951, Serial No. 241,133
3 Claims. (Cl. 90—12)



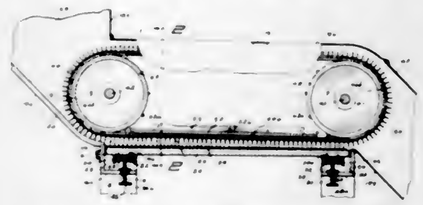
1. For use with a nozzle adapter having a nozzle seat, a refacing device for said seat comprising a bushing, having expansible and contractible externally screw-threaded grips at one end, a locking bolt slidably but non-rotatably keyed in said bushing, said bolt being of a length greater than the length of the bushing and having a conical expander at one end cooperating with said grips, a sleeve externally surrounding and rotatable on said bushing and provided with handle means and seat refacing tool means, a cam pivoted on the other end of said bolt, a lever fixed to said cam for operating said cam, and end thrust means interposed between said cam and the adjacent end of said sleeve.

2,663,228

PULP BEATER OR DISINTEGRATOR

Ralph J. Serpas, Minneapolis, Minn.

Application March 9, 1953, Serial No. 340,965
11 Claims. (Cl. 92—22)



1. A machine for beating paper pulp having in combination, a bed plate, spaced members secured to said plate and extending across said plate, an endless flexible member having an elongated rectilinear portion movable substantially parallel to said bed plate, spaced second members secured to said endless member and extending transversely thereof and movable in close proximity to said first mentioned members, means for moving said endless member, and means for directing pulp between said first mentioned members and second members.

2,663,229

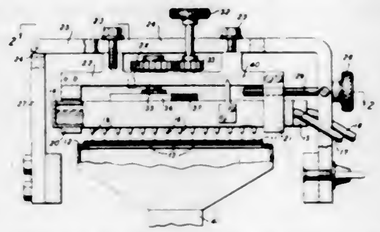
WIRE INSULATING APPARATUS

Christopher J. Krogel, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application April 5, 1949, Serial No. 85,620
2 Claims. (Cl. 92—38)

1. In pulp insulating apparatus, the combination with a driven Fourdrinier type belt for carrying thereon a sheet of insulating pulp of a given width having a plurality of spaced parallel wires embedded in and moving with the sheet, of two hollow members each having a set of nozzles comparable in number and relative spacing to the number and relative spacing of the wires in the sheet of pulp and each member being adapted to receive a liquid under pressure for direction in jets through the nozzles to divide the sheet of pulp into ribbons, an element to support the hollow members for longitudinal movement relative

to each other transversely of the belt, parallel racks mounted on the hollow members, and a rotatable pinion interconnecting the racks whereby the hollow members may be moved to cause



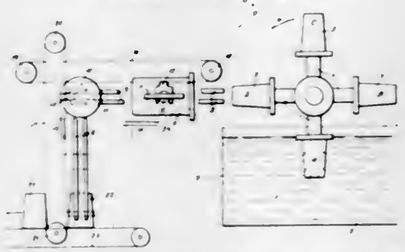
their nozzles to direct their jets of liquid to known positions on their respective sides of their respective wires to divide the sheet of pulp into ribbons of variable widths for each wire.

2,663,230

APPARATUS FOR AUTOMATIC WITHDRAWING OF PULP ARTICLES FROM MOLDS

Jean Wagner, Paris, France

Application November 17, 1948, Serial No. 60,426
Claims priority, application France November 20, 1947
2 Claims. (Cl. 92—57)



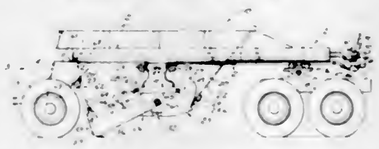
1. Apparatus for removing crude molded products formed on a mold by filtering pulp through the mold, comprising a mold carrier adapted for presenting molds successively, a movable box having an axis thereon, a counter-mold in said box, a first horizontal fixed rectilinear guide on each side of the movable box in which the corresponding end of the movable box slides, a second vertical fixed guide of the same form as the first said guide, a rotatable plate between the said two guides having a rectilinear groove of a shape corresponding to that of the said guides, two entraining members positioned on both sides of said guides and each comprising a fork for covering the axis of the movable box.

2,663,231

DUMP WAGON

Clyde W. Wood, Pasadena, Calif.

Application November 5, 1948, Serial No. 58,544
6 Claims. (Cl. 94—44)



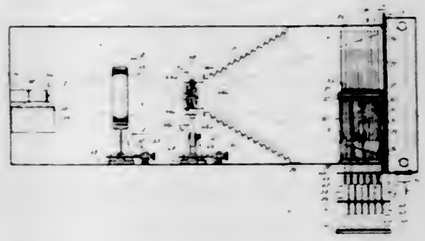
1. In combination in a dump device: a hopper member having a bottom opening providing edges thereof; swinging gates mounted to move below said opening; arms extending upward at the opposite ends of said gates to mount said gates; pivot means mounting upper ends of said arms on said hopper to dispose one edge of each gate in position at one edge of said opening, said gates being shaped about an arc of longer radius than the radius of said arms and eccentric thereto, whereby portions of the respective gate adjacent to said one edge move progressively farther downward away from said one edge as said gate swings open; and means to move said gates which include fluid-actuating ram means directly connected to intermediate portions of the respective arms at the respective end of said hopper.

2,663,232

COMPOSING APPARATUS

Jacob H. Drillick, Brooklyn, N. Y., assignor to The Phototypograph Corporation, Dover, Del., a corporation of Delaware

Application June 29, 1950, Serial No. 171,161
3 Claims. (Cl. 95—4.5)



1. In a phototypograph, a photographic film, means for moving the film to bring successive portions thereof to an image spot, a light source, a flat slide in front of the source carrying type characters arranged in a circular series at a uniform unit spacing on a ground of different light transmitting property, a plurality of selector shutters mounted in front of the slide for rocking movement on a common axis normal to the plane of the slide and passing through the center of the series of characters, each shutter having a plurality of openings of integral unit-space width separated from adjacent openings by a single unit-space width in a circular series, said openings being in registry with characters on the slide, the shutters differing from one another in the width, number and arrangement of their openings and being rockable on said axis to shift their openings one unit-space width to either of two alternate positions along the series of characters on the slide, manually operable selector means for rocking selected shutters to their respective desired alternate position to provide a single free path for a beam from the source through a selected character and aligned openings in the shutters and optical means for bringing the beams passing through all the characters and the shutters to a focus upon the image spot.

2,663,233

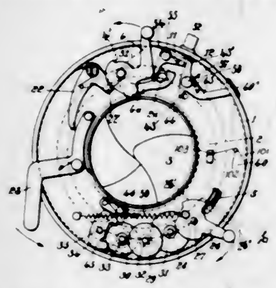
CAMERA SHUTTER INCORPORATING FLASH SYNCHRONIZING MECHANISM

Karl Rentschler, Calmbach (Enz), Germany, assignor to Alfred Gauthier G. m. b. H., Calmbach (Enz), Germany

Application June 5, 1950, Serial No. 166,142
Claims priority, application Germany January 30, 1950
9 Claims. (Cl. 95—11.5)

1. In a camera shutter of the type having a sector ring operated by a spring biased trigger, a

delaying mechanism for automatic exposures comprising a spring operated gear train, and flash release means, synchronizing means for synchronizing the opening of the shutter with the peak of flash; said synchronizing means comprising contact means including a stationary contact and a movable contact having a member in engagement with a member on said sector ring, a first group of said gear train including a toothed portion adapted to be engaged and released for operation by a detent member disengageable by said sector ring, a shoulder portion on one member of said gear train adapted to engage said sector ring to delay the opening of said shutter and manually operated members adapted to operatively engage the second group of said gear train and said movable contact to disengage said second group from said first group and free said movable contact for operation by said sector ring.

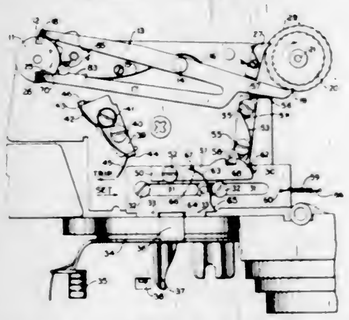


2,663,234

DOUBLE-EXPOSURE PREVENTION DEVICE

Howard T. Hodges, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application November 22, 1950, Serial No. 197,055
4 Claims. (Cl. 95—31)



1. In a roll film camera, the combination with a film winding mechanism, means including a pivoted pawl having an end adapted to engage and lock said mechanism automatically at the end of each film winding operation, a setting-type shutter, of a slide plate operatively connected to said shutter and movable in one direction to trip said shutter and movable in another direction to set said shutter, a pivoted release lever positioned between one end of said plate and the other end of said pawl, means on said plate adapted to engage said lever when said plate is moved in said one direction to pivot said lever to move the latter into engagement with said pawl to disengage said one end to release said mechanism, and means positioned to lock said plate when the latter is moved in said other direction to prevent a second actuation of said shutter.

2,663,235

HIGH-SPEED SHUTTER

Carl C. Fuerst, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application October 7, 1950, Serial No. 189,031
11 Claims. (Cl. 95—63)



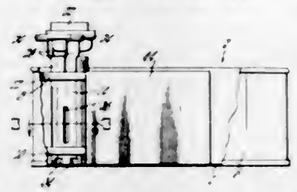
1. A shutter for cameras of the type including a shutter casing and mechanism plate mounted thereon forming a part thereof, an exposure aperture in the casing, a plurality of pivotally mounted shutter blades to open and close the aperture, a blade ring mounted on the casing and operably connected with the blades, a pin carried by the blade ring, a power spring connected to the blade ring and the shutter casing, the combination with the blade ring of a first latch element thereon, a second latch element pivoted on the camera casing and positioned to engage the first latch element on the blade ring when the latter is in a set position, means for moving the blade ring to a set position where it may be held by the inter-engaging first and second latch elements, a power-operated shutter release mechanism including a pivoted lever, a spring tending to turn the pivoted lever in one direction, a flange on the pivoted lever having a rest position with the flange resting against the second latch element, said spring tending to turn the pivoted lever in a direction to release the second latch element from the first latch element, said lever also carrying a cam, the flange on the pivoted lever having a rest position with the flange resting against the second latch element and normally holding the second latch element against movement and in a first latch element engaging position, the portion carrying the cam normally lying to one side of the path of movement of the pin on the blade ring, the lever being movable in a direction in which the flanged end may release the second latch element, this movement simultaneously moving the cam from a rest position adjacent the path of the blade ring pin to an operative position lying across that part of the path of the blade ring pin through which the pin passes after the blade ring moves in opening and at least partially closing the blades, whereby the cam may apply a braking action to the blade ring pin, a trigger mechanism including a manually operable member and an abutment under the control of the manually-operable member, the abutment normally engaging and holding the power-operated shutter release against movement, except when the abutment may be moved by the manually-operable member away from its power-operated shutter release holding position.

2,663,236

FLUID TREATING TANK FOR PHOTOGRAPHIC DEVELOPING

William G. Blankenship, Jr., and Graham S. McCloy, Springfield, Mass.

Application December 14, 1950, Serial No. 200,832
2 Claims. (Cl. 95—96)



1. Apparatus for processing a plurality of flat sheets of photographic material in processing liquid comprising in combination, a circular tank having a horizontal bottom wall and a circular peripheral wall extending vertically upwardly therefrom, an elongated tubular shell having an imperforate side wall and a lower end disposed adjacent said bottom wall and extending therefrom vertically upwardly and closely adjacent an inner side of said peripheral wall at one side of said tank and terminating adjacent the upper edge of said wall, said shell provided with inlet means thereinto closely adjacent said lower wall and an elongated relatively narrow vertically disposed discharge outlet in a side thereof having opposite ends terminating upwardly and downwardly from said inlet and bottom wall and the upper edge of said peripheral wall, said outlet of the shell disposed adjacent and spaced from an adjacent portion of said peripheral wall and is directed in one direction and toward said peripheral wall at a point forwardly thereof, upper and lower rotatable liquid propelling means in said shell for discharging liquid out said outlet and circulating the same around said tank, and an elongated sheet-like baffle having its transverse width disposed vertically and a forward vertical end secured to said shell and a rear vertical end secured to said peripheral wall, said baffle being bowed outwardly intermediate its forward and rear ends towards said peripheral wall of the tank and having its forward end disposed inwardly of the inner longitudinal edge of said discharge outlet and extending from said shell to said wall in a direction opposite to said one direction.

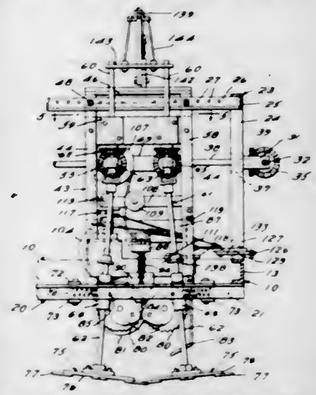
2,663,237

COTTON CHOPPING MACHINE

John E. Rode, Hillsboro, N. Dak.

Application December 29, 1949, Serial No. 135,638
10 Claims. (Cl. 97—17)

1. An agricultural machine comprising a body structure designed to be moved over the ground and including longitudinal side rails, a pair of beams disposed in relatively closely spaced parallel relation and extending transversely of and supported by said side rails, a pair of upright shafts, means carried by said body and rotatably supporting the shafts, the shafts extending downwardly between the pair of beams, an earth working implement supported upon the lower end of each shaft for rotation thereby, a pair of cam blocks disposed between the pair of beams, each of said cam blocks having a vertical passage therethrough through which the lower end of a shaft slidably extends, resilient means normally urging said cam blocks toward one another, said shafts being articulated whereby the lower end portions may have relative movement with the cam blocks, a pair of rotary cams disposed between the cam blocks and each adapted, when turned in one direction, to engage the adjacent block and force it outwardly against the action of said resilient means, a power source means rotatably coupling the cams with the power source, and means rotatably coupling the shafts with said power source.

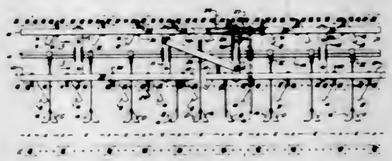


2,663,238

AGRICULTURAL APPARATUS FOR BLOCKING ROW CROPS AND THE LIKE

Graham W. Howard, Fort Collins, Colo.

Application October 8, 1947, Serial No. 778,610
20 Claims. (Cl. 97—23)



2. Apparatus for blocking row crops and the like, comprising movable supporting means; a plurality of cutting blades mounted in spaced relation on said supporting means and also in position to sever or remove plants from spaced areas over which said supporting means is moved, means including removable clamping devices for so mounting said cutting blades, said blades being disposed in four sets, left and right front sets and left and right rear sets, and the cutting edges of said blades being inclined with respect to the direction of movement, the left and right front sets being inclined in opposite directions and the left and right rear sets also being inclined in opposite directions; and means including a control member and linkage connecting the same in said movable supporting means for moving respective front and rear blades laterally relative to each other to change the spacing of said blades.

2,663,239

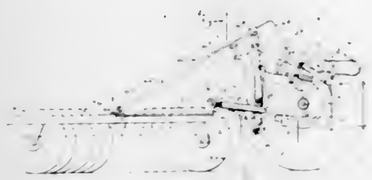
POWER-LIFT TRACTOR HITCH FOR EARTH WORKING IMPLEMENTS

Howard B. Rapp, Santa Ana, and Loyd E. Heckathorn, Garden Grove, Calif., assignors to Towner Manufacturing Co., Santa Ana, Calif., a partnership

Application December 11, 1946, Serial No. 715,450
8 Claims. (Cl. 97—46.07)

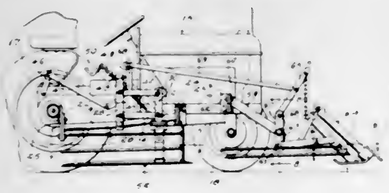
1. In combination in a hitch structure for connecting a drawn implement frame to a trac-

tor having a superstructure and having elevating means to raise and lower the drawn implement frame, power-lift mechanism connected with said elevating means, automatic control means for the power-lift, and draft arms connected to a lower portion of said tractor and to said elevating means for lifting said implement frame through said draft arms, the combination including: an upstanding rigid frame; means connecting a lower portion of said frame with said draft arms for elevation thereby; link means connecting an upper portion of the upstanding frame with a rearward portion of said implement frame, and link means connecting an upper portion of said upstanding frame with a rigid



location on said tractor superstructure above said draft arms to transfer a portion of the weight and strain of the rear of said implement frame to the upper portion of said tractor through said upstanding frame and said rigid location; a second upstanding rigid frame; means connecting said second frame with said draft arms for support thereon; means pivotally connecting the lower portion of said second frame to a forward portion of the implement frame for support of the latter on said second frame; and a thrust link pivotally connected with an upper portion of said second upstanding frame and connected with said automatic control means to control said power-lift mechanism and lift said draft arms.

2,663,240
CULTIVATOR ATTACHMENT FOR TRACTORS
Joseph A. Bauer, Paul, Idaho
Application November 26, 1951, Serial No. 258,263
2 Claims. (Cl. 97—46.65)



1. A cultivator supporting attachment for a tractor adapted to be connected with the power lift, said attachment comprising a stationary frame including a pair of uprights, means mounting said frame on one side of the tractor, a carrier formed of a pair of uprights and a lower horizontal plate, upper and lower pairs of links, each link being pivotally connected at one end to an upright of said frame and at its other end to an aligned upright of said carrier, connections between the adjacent ends of the links of each pair for effecting simultaneous movement of all of said links, an earth working implement carried by said plate and movable by said links, a downwardly and rearwardly extending arm carried by the innermost of said upper pair of links, a connection between said arm and the power take-off for powered movement of all of said links to move said carrier, an upwardly extending arm carried by said innermost link of said upper pair, a stationary frame member mounted on said tractor forwardly of said first stationary frame, a downwardly and forwardly inclined supporting bar, a pair of implement supporting arms pivoted at their midpoint to said supporting bar, a second earth working implement pivotally connected to the lower end of said implement supporting arms and extending forwardly thereof, a forwardly extending rock lever connected to the upper ends of said implement supporting arms, an operating rod pivotally connected at one end to an intermediate point of said rock lever and pivotally connected at its other end to the upper extremity of said upwardly extending arm, and a chain connection between the forwardly extending end of said rock lever and the forwardly extending portion of said second earth working implement for tilting said forward end upwardly simultaneously with the lifting of said first earth working implement.

2,663,241
EARTH WORKING TOOL FOR THE ROTOR OF ROTARY CULTIVATING MACHINES
Arthur Clifford Howard, East Horndon, England, assignor of one-half to Rotary Hoes Limited, East Horndon, Essex, England
Application March 7, 1950, Serial No. 148,034
Claims priority, application Great Britain March 18, 1949
1 Claim. (Cl. 97—212)



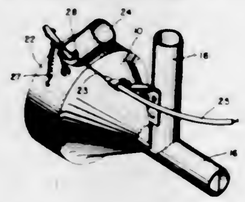
For use with the rotor of a rotary cultivating machine of which the rotor axis is transverse to the direction of travel of the machine, an earth working tool comprising a stem the longitudinal axis of which is adapted to fall on a radius of said rotor, a pair of beveled cutting edges along one longitudinal edge of said stem, an attaching root at one end of said stem, said attaching root being adapted to overlie a greater portion of the surface of said rotor than said stem, said root having openings therethrough adapted to receive retaining means for securing said tool to said rotor, an earth working head secured to said stem at its end opposite from said root, the leading portion of said stem to which said head is connected being a radial curve, said head having upwardly divergent flanges forming with said stem a Y, the leading edges of said head being triangular in form with the apex of said triangle being positioned in advance of the beveled cutting edges of said stem, and upper and lower beveled cutting edges on the leading triangular portion of said head.

2,663,242
MECHANICAL SOD CUTTER AND LOADER
Archie B. Lancaster, Duck Hill, Miss.
Application July 18, 1950, Serial No. 174,533
3 Claims. (Cl. 97—226)



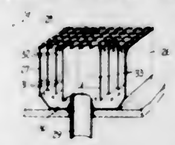
1. A sod cutting machine comprising a wheeled support, a plow frame attached to said support, an elongated plow fork having a depending plow at its trailing end for horizontally severing sod, said plow including a bed inclined upwardly and rearwardly from the leading edge theerof to raise sod vertically upon severance thereof in response to forward movement of the wheeled support, means carried by the wheeled support for receiving sod severed and raised by the plow and elevating the sod to a position rearwardly of the wheeled support, said last means including an upwardly and rearwardly inclined trough having a bottom and side walls, said side walls being enlarged and divergent adjacent the forward end of the trough to constitute a training wall for sod received from the plow, a transverse trim roller carried at the forward end of the trough, conveyor belt rollers disposed at opposite ends of the trough, means for operatively connecting the wheeled support and one of the belt rollers, and a conveyor belt entrained over said belt rollers with the lower flight thereof disposed between the trough bottom and the trim roller.

2,663,243
AIR PICKUP AND SUCTION DEVICE
Henry E. Wunderlich, Seattle, Wash.
Application July 30, 1951, Serial No. 239,318
3 Claims. (Cl. 98—2)



3. A ventilating system in an automobile activated by the engine fan and discharging air in the rear of the passenger compartment and picking up air at the front of the passenger compartment, comprising: a funnel shaped member disposed behind said engine fan and directed toward said fan to pick up air therefrom; a discharge tube connected at one end to said funnel shaped member to receive air therefrom and vented to the atmosphere at the other end; a suction tube joining said discharge tube behind said funnel shaped member whereby suction is created in said suction tube by air passing from said funnel shaped member through said discharge pipe; an air-collecting tube having one end disposed to collect air at the mouth of said funnel shaped member and having its other end extending rearwardly and to one side in the direction of rotation of said engine fan; an air discharge nozzle positioned in the rear of said passenger compartment; a first conduit connecting said air-collecting tube and said air discharge nozzle to direct air into said automobile; and a second conduit having one end connected to said suction tube and having its other end positioned at the front of said passenger compartment to collect air from said automobile.

2,663,244
REGISTER OUTLET FOR WARM AIR HOUSE-HEATING SYSTEMS
John R. MacDowell, Worthington, Ohio
Application June 9, 1951, Serial No. 230,737
2 Claims. (Cl. 98—38)



1. A room outlet fixture for the discharge of temperature-conditioned air, comprising: a casing having imperforate side and bottom walls and a perforate horizontally extending top wall; vertically extending partition walls stationarily disposed in said casing in spaced relation to the imperforate side walls of the casing, said partition walls defining an inner vertical passageway extending through the central portion of the fixture and communicating with the atmosphere of an associated room through the perforate top wall of the casing, said partition walls being spaced from the outer walls of said casing to define a plurality of outer passageways which communicate at their lower ends with the lower portion of said inner passageway and at their upper ends with the room atmosphere through said perforate top wall; and a conduit entering the bottom of said casing, said conduit terminating within the lower portion of said inner passageway to introduce under forced flow into the latter a stream of temperature-modified air, the inflow of the temperature-modified air into said inner passageway serving to induce movement of room air downwardly through said outer passageways and thence into said inner passageway for admixture with the temperature-modified air, the resultant commingled air passing upwardly through said inner passageway for delivery to the atosphere of an associated room.

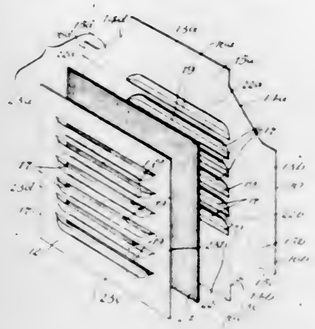
2,663,245
WINDOW VENTILATOR
Joseph B. Fairbairn, Shreveport, La.
Application November 21, 1951, Serial No. 257,585
1 Claim. (Cl. 98—99)



A window ventilator for positioning adjacent to the outer sides of windows having sills, comprising a body having an open top and bottom,

end sections and a front section, means for pivotally connecting the end sections to said front section, the upper and lower edges of each end section being parallel, the lower edge of said front section extending a substantial distance below the lower ends of said end sections in spaced relation with the sill providing a vertical passageway through the bottom and top of said ventilator, and means for removably securing the ventilator adjacent to said open window.

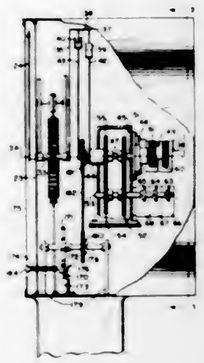
2,663,246
VENTILATOR STRUCTURE
Lester L. Smith, Peoria, Ill.
Application March 18, 1950, Serial No. 150,431
3 Claims. (Cl. 98—121)



3. A ventilator structure comprising, in combination, two metal sheets having formed louvers correspondingly spaced in the mid-portions thereof, said sheets, in their assembled relationship, being in face-to-face relationship with the louvers of one sheet aligned in opposed relationship and projecting oppositely from the louvers of the other sheet, one of said sheets having marginal spaces around the louvers and substantially straight outer edges in angular relationship to one another, the other of said sheets being generally larger than the first mentioned sheet and having edge portions which extend from the corners of the first mentioned sheet at angles to the said straight edges thereof in the assembled relationship of the sheets, the larger sheet also having two marginal portions along each side, a first of which marginal portions on each side extends between said edge portions and a second of which projects outwardly from and beyond each of the first marginal portions, and in the assembly of the sheets, the first marginal portions being folded over the marginal spaces of said one of the sheets to provide a reinforced peripheral rim, and the second marginal portions being bent to project angularly from the rim to provide mounting flanges.

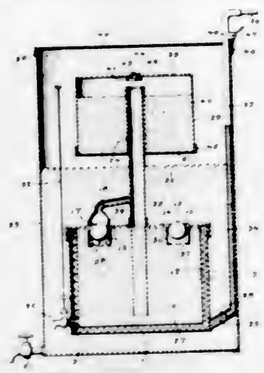
2,663,247
HAM PUMPING
Bernard T. Hensgen and Howard G. Reichel, Chicago, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
Application September 6, 1952, Serial No. 308,272
12 Claims. (Cl. 99—256)

3. An apparatus for adding an amount of one substance to a second substance wherein the amount to be added is a percentage of the weight of the second substance, said apparatus including a scale having a weight supporting member and a weight responsive rotatable member movable about an axis along a given path in a given direction in response to the addition of weight to said weight supporting member an amount which is a function of the weight placed upon said weight supporting member, supply means for said one substance including substance transfer means to add the one substance to the second substance and regulating means to control the amount of said one substance added by said transfer means to said second substance, a pair of detectors, mounting means for said detectors to permit said detectors to be moved along said path about said axis, power drive means including a motor connected to each of said detector mounting means through a gear train to move said detectors about said axis with the two detectors spaced from each other an amount representing said percentage of the weight corresponding to the point on the path occupied, at any given instant, by one of said detectors, and control means connected to said one of said detectors and to said drive means to stop said detectors upon said one of said detectors reaching the point on the path corresponding to the weight of the substance placed on the scale whereby the other detector is stopped at a second point on said path corresponding to said weight of said substance plus said percentage, said control means being also connected to said regulating means to start said transfer means adding said one substance to said second substance upon said detectors being stopped, said other detector being connected to said control means to stop said transfer means adding said second substance upon said rotatable member reaching said second point.



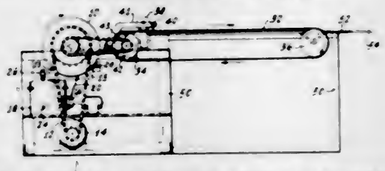
2,663,248
AUTOMATIC COFFEE MAKER
Melvin S. Johnson, Moon Run, Pa.
Application November 28, 1951, Serial No. 258,687
5 Claims. (Cl. 99—310)

1. A coffee making unit comprising a lower container having a tube extended upwardly therefrom, an upper container having perforations in parts thereof positioned on said tube and supported thereby, a heating element in combination with said lower container, float actuated valves in the upper end of said lower container, a valve positioned in the lower part of the said lower container, a handle extended upwardly from the lower container in which wires for supplying current to the heating element are positioned and a vent with a baffle providing a shield



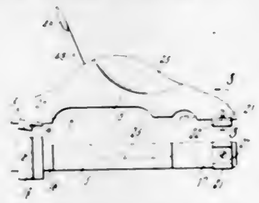
therefor is provided in the upper end of the upper container.

2,663,249
PANCAKE MAKING MACHINE
Hyman Epstein, Brooklyn, N. Y., assignor of one-half to Max Levine, Brooklyn, N. Y.
Application March 22, 1951, Serial No. 216,855
5 Claims. (Cl. 99—423)



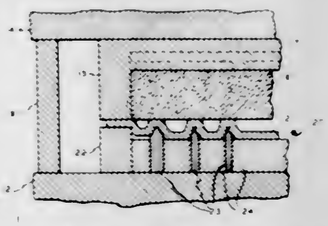
1. A pancake making machine comprising a single drum mounted to rotate about a horizontal axis, means for heating solely said drum in the interior thereof, a pan open at the top and positioned at the bottom of said drum so that said drum passes through the top part of said pan in its rotational path of travel, means for supplying batter to said pan for contacting said drum, a smooth conveyer belt positioned adjacent to and only on one side of another portion of said drum for collecting the pancake resulting from the heating of the batter contacting said drum and the dropping of said pancake from said drum, and means for driving said belt at a speed not in excess of the speed of said drum.

2,663,250
TOOL FOR REMOVING ADDRESS-O-GRAPH TYPE STRIPS
George W. Schaefer, Quincy, Mass.
Application June 4, 1952, Serial No. 291,761
3 Claims. (Cl. 101—1)



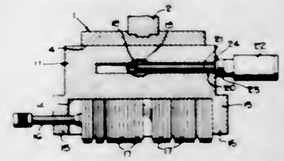
1. A tool for removing a type strip from a backing plate, said backing plate having a depressible spring latch normally projecting above and at one end of said strip and preventing removal thereof, said tool having a pair of spaced feet, one of said feet having a channel element adapted to engage about the edge of said backing plate and having a heel portion adapted to engage the top of said spring latch, the other foot having a pusher element spaced from said channel element to engage the opposite end of said type strip, said channel element heel portion being inclined downwardly and inwardly when said pusher element is positioned to engage said opposite end and depressing said spring latch below said strip, whereby on moving said tool lengthwise of said printing strip toward said latch said printing strip may be slid over said latch and be detached from said backing plate.

2,663,251
STEREOTYPE MOLDING
William Baumrucker, Jr., Stamford, Conn., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application June 2, 1950, Serial No. 165,839
4 Claims. (Cl. 101—17)



1. A method of molding irregular shaped objects comprising placing a sheet of molding material upon a form to be reproduced, applying to the back of said sheet an inelastic pressure to form therein substantially the complete impression of irregularities in the form to be reproduced, and while so pressed subjecting the back of the sheet to fluid pressure of less force than the inelastic impressing force to depress the sheet into the larger open areas of the irregularities in the form to be reproduced.

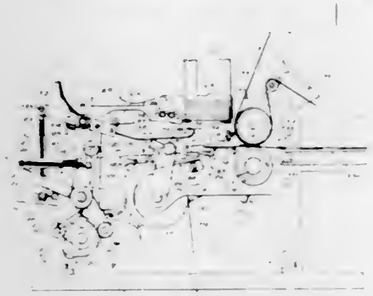
2,663,252
TYPEHOLDER FOR GOLD STAMPING MACHINES
Lewis A. Kingsley, Los Angeles, Calif.
Application April 8, 1950, Serial No. 154,787
4 Claims. (Cl. 101—31)



1. In a type holder for stamping machines wherein a heated mounting block is provided with a channel, the combination of: an adapter bar fitting said channel and extending below said mounting block; type retaining means depending from said adapter bar; a wedge cylinder mounted in said adapter bar in angular relation and movable laterally therefrom to bear against a side of said channel to force the opposite side of said bar into heat conductive contact with said

mounting block; and a screw member threaded into said wedge cylinder and protruding from an end of said adapter bar to operate said wedge cylinder.

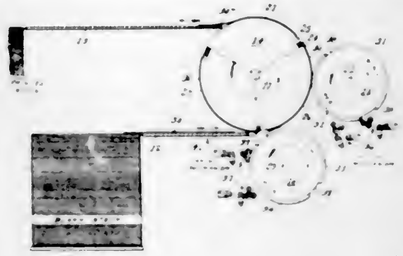
2,663,253
SELECTIVE HECTOGRAPHIC PRINTING MACHINE
Ernst C. Sauerman and Alfred J. Hopkins, Chicago, Joseph Erwood, Crystal Lake, and John Erwood, Park Ridge, Ill.; said Joseph Erwood and said John Erwood assignors to Address-It Corporation, Chicago, Ill., a corporation of Illinois
Application June 29, 1948, Serial No. 35,806
17 Claims. (Cl. 101—53)



14. A machine for sequentially printing data carried by cards selected from a file of cards including said selected cards which comprises, a hopper for holding said file of data-bearing cards the data of which may be transferred to the face of a print-receiving sheet, a printing station, means for moving all the cards of said file in seriatim continuously to and through said printing station, means for disposing said print-receiving sheet at said printing station adjacent to the passage of cards therethrough, controllable pressure means at said printing station for pressing predetermined selected cards into contact with said print-receiving sheet, said card moving means comprising a pusher member movable toward the printing station, means carried by said pusher member for selecting predetermined cards during movement of said card pushing means and said cards toward said printing station, means actuated by said selecting means for operating said pressure means when said selected cards pass through said printing station to print the data from said selected cards upon said print-receiving sheet, and means for moving said print-receiving sheet after each printing operation.

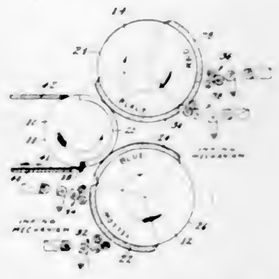
2,663,254
MULTICOLOR JOB OR PROOF PRESS
J Russell Parrish, Des Moines, Iowa, assignor to Meredith Publishing Company, Des Moines, Iowa, a corporation of Iowa
Application February 17, 1951, Serial No. 211,472
6 Claims. (Cl. 101—174)

1. A multi-color printing press comprising a single impression cylinder and at least one plate cylinder each having segments of equal peripheral length in the surfaces thereof adapted to register in tangential relation with each other, the circumferential length of the surfaces of the impression and plate cylinders each being an aliquot multiple, greater than unity, of the length of a segment, the circumferential length of a plate cylinder and the circumferential length of the impression cylinder being unequal by one segment length, means for rotating said impression and plate cylinders at the same peripheral speed, means including a plurality of printing plates positioned in said plate cylinder segments for printing a plurality of colors greater than the number of plate cylinders, means for retaining a sheet to be printed on each segment of the impression cylinder, a feeding station past which each impression cylinder segment passes as the impression cylinder rotates, means for feeding sheets consecutively to an arithmetical progression of said impression cylinder segments passing said feeding station, the number of consecutive impression cylinder segments skipped between one segment which receives a fresh sheet



and the next segment receiving a fresh sheet being one less than the number of plate segments on a single plate cylinder, means for discharging a sheet from its impression segment after it has registered with each of the printing segments on the printing cylinders, means for feeding a fresh sheet to be printed on said vacated impression segment before said impression segment registers with any other plate segment, whereby fresh sheets are fed onto said impression cylinder continuously at equal intervals and whereby printed sheets are discharged from said impression cylinder continuously at equal intervals, and whereby each of the sheets carried by the impression cylinder is caused to register with each of the printing plates in the same predetermined sequence and beginning with the same color.

2,663,255
MULTICOLOR PROOF PRESS
J Russell Parrish, Des Moines, Iowa, assignor to Meredith Publishing Company, Des Moines, Iowa, a corporation of Iowa
Application March 3, 1951, Serial No. 213,773
5 Claims. (Cl. 101—174)



1. A multi-colored printing press comprising a single rotatable impression cylinder and at least one rotatable plate cylinder each having a plurality of equal segments in the surfaces thereof

adapted to register tangentially as the cylinders are rotated, the peripheral length of the surface of the impression and plate cylinders each being an aliquot multiple of the length of the segment, the peripheral length of said impression cylinder comprising an even number of said segments and that of each plate cylinder including an odd number of said segments, means for rotating said impression and plate cylinders at the same peripheral speed, one-half of the number of said impression cylinder segments and one segment on each plate cylinder being recessed, whereby there is no peripheral contact between the impression cylinder and the plate cylinders when a recessed segment on one cylinder registers with any segment on another cylinder, the remaining segments of each plate cylinder each adapted to carry a printing plate therein, the other one-half of the impression cylinder segments being impression segments adapted to carry thereon sheets to be printed by printing plates on said plate cylinders, the recessed segments and the impression segments on the impression cylinder being arranged in alternate order, the number of segments on the impression cylinder and on the plate cylinders providing that during a full cycle of operation each impression segment registers once with each plate cylinder segment in the same predetermined sequence with said recessed segments on the plate cylinder being the last segments to so register, and means for discharging a sheet from the impression segment after said impression segment has registered with each of the plate cylinder segments, whereby the sheet being discharged is completely free of engagement with any printing plate on the plate cylinder.

2,663,256
VARIABLE SPEED DRIVE MEANS FOR PRINTING OF SHORT TEXTS IN ROTARY PRINTING MACHINES
Louis Jean Chambon, Paris, France, assignor to Society Machines Chambon, Paris, France
Application May 15, 1951, Serial No. 226,429
Claims priority, application France
August 26, 1946
7 Claims. (Cl. 101—228)

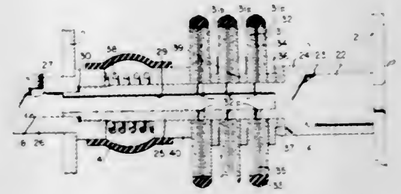


1. Process for printing short texts on a band moving at a constant speed, wherein the printing cylinder carrying at least one text is actuated by a movement, the rotational speed of which is given by the following formula:

$$A = Cvt + (C-1) \text{ arc } tg \frac{C \sin vt}{D - C \cos vt}$$

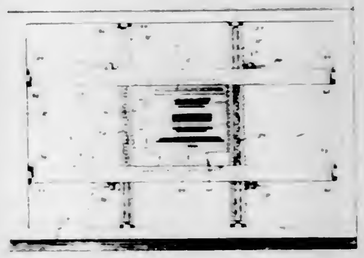
wherein C is a constant determined by the dimensions of the parts of the machine, v is the angular speed of the paper band during a unit of time, t is the time and D is a parameter capable of modification by the operator in order that, at any given moment, the speed of movement of the text is equal to that of the band.

2,663,257
PRINTING WHEEL DEVICE
Charles G. Dudis, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application March 22, 1951, Serial No. 217,024
29 Claims. (Cl. 101—327)



1. A printing wheel device including, in combination, an axle having an axial bore and one or more radial bores connecting the axial bore with the bearing surface of the axle; a type wheel having in a central bearing portion an axle hole and mounted thereby for rotation on the axle with at least one of the axle radial holes within the axle hole in the wheel, said wheel having a porous type material rim on the periphery of the central bearing portion and said central bearing portion having one or more capillary channels extending from the axle hole of the wheel to the porous type material rim; and means including a carbon-graphite to metal rotational slip side seal on each side of said wheel to prevent fluid introduced into the axial bore from leaking out between the axle bearing surface and the surface of the axle hole of the wheel.

2,663,258
PRINTER'S LOCKUP DEVICE
Henry J. Hilland, Chicago, Ill.
Application March 1, 1951, Serial No. 213,435
13 Claims. (Cl. 101—393)



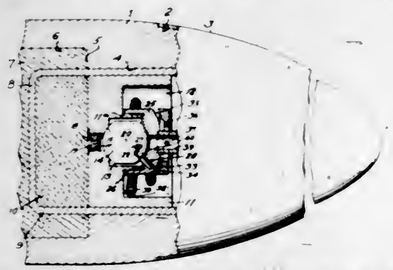
1. A lock-up structure including in combination a first set of spaced parallel locking bars having teeth and parallel rectangular shaped grooves transverse to the teeth formed on corresponding sides thereof, and a second set of spaced parallel locking bars transversely disposed with relation to said first-mentioned set of bars and having a series of aligned, separated, rectangular shaped pedestal-like teeth formed on corresponding sides thereof, the toothed sides of said second set of locking bars engaging the toothed and grooved sides of said first set of locking bars with the teeth in said second set of bars meshing with the teeth and grooves in said first set of bars to firmly interlock said sets of locking bars.

2,663,259
AMMUNITION
Robert T. Catlin, Stratford, Charles S. Cummings II, Easton, George R. Eckstein, Fairfield, and Paul Hickman, Bridgeport, Conn., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application March 23, 1951, Serial No. 217,086
7 Claims. (Cl. 102—38)



1. Ammunition for an industrial stud driving tool comprising a primed cartridge; a propellent powder in said cartridge; an elastically deformable cup-shaped sabot secured in the mouth of said cartridge, the open mouth of the sabot being exposed; and a stud having a head received and resiliently retained within said cup-shaped sabot, said cup-shaped sabot defining a stud head receiving pocket adapted to be elastically deformed by the insertion of a stud head therein, said pocket being so shaped that portions of the walls of said pocket having a transverse inside dimension greater than the outside dimensions of the stud head alternate with portions of the walls of said pocket which prior to elastic deformation by the insertion of the head of a stud have a transverse inside dimension less than the outside dimensions of the head of the stud.

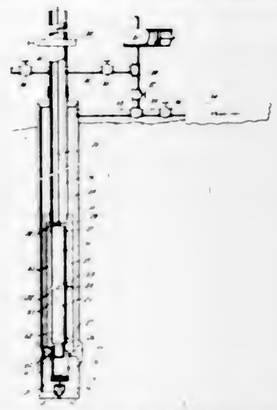
2,663,260
DELAYED ARMING MECHANISM
Parke H. Thompson, Kirkwood, Mo., assignor to United States of America as represented by the Secretary of the Army
Application January 8, 1952, Serial No. 265,444
15 Claims. (Cl. 102—79)



1. A delay arming device for projectile fuses comprising, a housing having an axial counterbore, an arming ball rotor in said counterbore rotatable from first unarmed position to second armed position and having an arcuate peripheral slot, a cover for said housing, a setting pin integral with said cover extending into said rotor slot, means to turn said cover relative to said housing whereby said pin rotates said ball rotor, and escapement means associated with said cover to provide timed motion for arming said ball rotor.

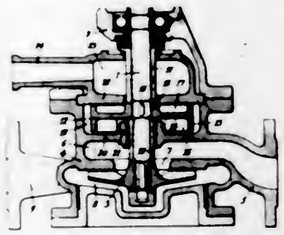
2,663,261
RETRIEVABLE WELL PUMP
Arthur G. Gage, Bell, Calif.
Application April 24, 1950, Serial No. 157,735
17 Claims. (Cl. 103—46)

1. The combination comprising a well pipe string, a pump seat carried by the lower portion of said string, a pump adapted to be lowered within said string into engagement with said seat and operable by fluid pressure communicated from the top of the well to pump fluid out of the well, upward displacement of the pump from said seat normally being resisted by the pressure of a liquid column extending above the pump seat within said string to the top of the well and applied to an upwardly facing area of the pump, means within the well forming a passage adapted



while the pump remains seated to communicate from a lower portion of said column to a downwardly facing area of the pump fluid pressure communicated from the top of the well through said column and sufficiently great to at least substantially equal the fluid pressure applied to said upwardly facing area of the pump, and valve means in the well continuously closing said passage to fluid flow therethrough during normal operation of the pump.

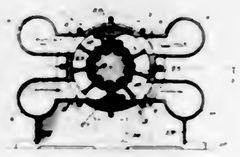
2,663,262
CENTRIFUGAL PUMP WITH SEALING DEVICE
Elof Malmvik and Edwin Dunér, Jonkoping, Sweden, assignors to Jonkopings Mekaniska Werkstads Aktiebolag, Jonkoping, Sweden, a joint-stock company
Application February 19, 1948, Serial No. 9,465
In Sweden December 16, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires December 16, 1962
3 Claims. (Cl. 103—111)



1. In a vertical centrifugal pump, a pump shaft, a runner mounted on the lower end of said pump shaft, a pump chamber surrounding said runner and being closed downwardly, an upper inlet to said pump chamber, a sealing chamber around the pump shaft above said inlet, said sealing chamber having a bottom with a short upright ring-shaped inner wall so as to form a pocket for receiving and retaining sufficient pump liquid

to form a sealing ring of pump liquid, said bottom of said sealing chamber having an opening for the pump shaft which opening is larger than said shaft so as to provide a ring-shaped space around the pump shaft to allow admittance of pump liquid from said inlet to the pocket in said sealing chamber, and a sealing impeller mounted on the pump shaft in said sealing chamber and comprising a horizontal disc, a series of lower blades on the lower surface of said disc, said lower blades having free inner edges so as to leave a space occupied by said upright wall extending into said pocket, and a series of upper blades on the upper surface of said disc, said upper blades having a greater radial extension than said lower blades.

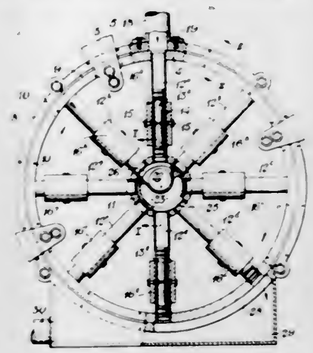
2,663,263
ROTARY PUMP
Eugene Mayus, Chicago, Ill., and Walter George See, Crown Point, Ind.; said Mayus assignor to Submerged Combustion Company of America, Inc., Hammond, Ind., a corporation of Indiana
Application August 19, 1949, Serial No. 111,252
8 Claims. (Cl. 103—117)



1. A rotary pump comprising a casing having a plurality of inlet and outlet openings disposed therein, a shaft mounted concentric to said casing, an impeller mounted on said shaft and having a plurality of flexible vanes extending radially from said shaft, and convexly curved arcuate cam elements on the inner circumference of said casing and adapted to flex said vanes and force said vanes inwardly toward said impeller shaft intermediate an outlet and the succeeding inlet.

2,663,264
ROTARY PUMP
Evangelos Michael Michalitsianos, Northwood, England
Application July 18, 1951, Serial No. 237,436
Claims priority, application Great Britain July 19, 1950
4 Claims. (Cl. 103—161)

1. A rotary fluid pump comprising a first stationary member, a plurality of cylinders supported for rotation upon said first stationary member and extending radially outwardly therefrom, suction and delivery ports in said first stationary member, means selectively communicating the inner end of the cylinders with said ports, a second stationary member surrounding the first stationary member and spaced therefrom, suction and delivery ports in said second stationary member, means selectively communicating the outer end of the cylinders with said ports in the second stationary member, a double ended weighted piston slidable in each of said cylinders, and means for effecting rotation of



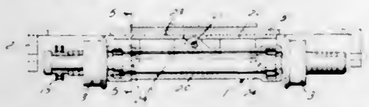
the cylinders about said first stationary member whereby the pistons are reciprocated by the force of gravity to draw in fluid alternately from said first and said second stationary member and to discharge fluid alternately to said second and said first stationary member.

2,663,265
WELL FLOWING DEVICE
Henry U. Garrett and Clifford M. Peters, Longview, Tex., assignors, by direct and mesne assignments, to Garrett Oil Tools, Inc., Houston, Tex., a corporation of Texas
Application October 3, 1946, Serial No. 700,880
1 Claim. (Cl. 103—228)



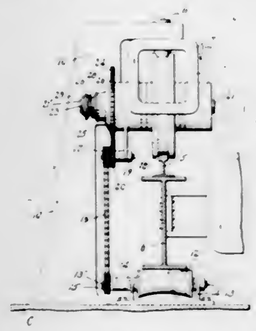
A well flowing device of the class described comprising, a valve housing having a passage therein, a valve in said passage, distensible means operatively connected to said valve to move the valve to and from closed position, a volume chamber communicating with said means, means responsive to ambient pressure for maintaining within a predetermined range the differential in pressure between the interior and the exterior of the chamber, and a downwardly opening volume skirt having communication with the volume chamber to entrap gaseous fluid therein when the device is lowered into liquid within a well.

2,663,266
ROCKING AXLE STRUCTURE FOR MINING APPARATUS
Clyde P. Baldwin, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Original application December 20, 1946, Serial No. 717,398. Divided and this application October 25, 1950, Serial No. 192,074
9 Claims. (Cl. 105—101)



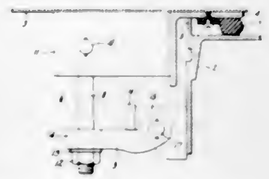
5. In an apparatus of the character disclosed, a truck frame, a horizontal plate underlying said truck frame and guided for longitudinal adjustment relative to said truck frame, means for adjusting said plate, a transverse axle structure pivotally mounted on said plate to rock in vertical planes relative thereto about a longitudinal axis located midway between the sides of the said truck frame, traction wheels carried by said axle structure at the sides of the apparatus, a single drive chain for driving said wheels in unison and adapted to flex slightly as the axle structure rocks about its pivotal axis, said plate being adjustable to vary the location of said axle structure longitudinally relative to said truck frame to place said drive chain under proper tension while retaining sufficient looseness to permit such flexing thereof, and means to clamp said plate in adjusted position to said truck frame.

2,663,267
SAFETY DEVICE FOR MONORAIL CARS
Harald Omsted, Pasadena, Calif., assignor to Monorail Engineering and Construction Corporation, Los Angeles, Calif.
Application February 20, 1950, Serial No. 145,149
6 Claims. (Cl. 105—153)



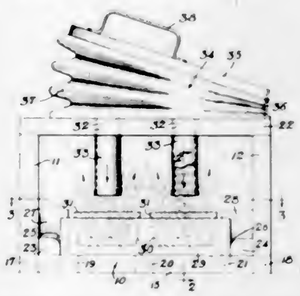
1. In a monorail system, the combination with a rail and a rail support, of a wheel truck with traction wheels therefor, a car-supporting yoke having its upper end supported on said wheel truck, and having suspended from its lower end a car, whereby said car and said wheel truck move together along said rail, a safety device to prevent derailment of said wheel truck, including a roller element carried on said car immediately under said rail support, to engage said support to prevent derailment, a spur gear mounted on the axle of one of said traction wheels, spring tension means operating on said spur gear to hold it in frictional driving connection with said traction wheel, and driving connections from said spur gear to said roller element for driving it from said traction wheel, whereby when said roller element engages said rail support to prevent derailment, it will be turning, with a yieldable friction drive in the line of drive.

2,663,268
HATCHWAY CLOSURE
Karl J. Ahnell, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application December 30, 1952, Serial No. 328,752
4 Claims. (Cl. 105—456)



1. In combination, a hatch cover, a structure having a hatchway therein, a bracket mounted on a wall of said hatchway structure and having an abutment at its outer end, and means for holding said hatch cover in place over said hatchway in said structure, said means including a clamp type fastener having a pair of separable members one of which is pivoted at one end to an inside surface of said hatch cover for swinging movement toward and away from said wall of said hatchway structure, and the other of which is pivoted at one end to said bracket for swinging movement into engagement with said abutment when said pair of separable members of said fastener are brought into clamping engagement with one another.

2,663,269
METHOD FOR PRODUCING EDIBLE COATINGS FOR EDIBLE PRODUCTS
Armin J. Kloess, Los Angeles, Calif.
Application November 13, 1950, Serial No. 195,214
2 Claims. (Cl. 107—54)



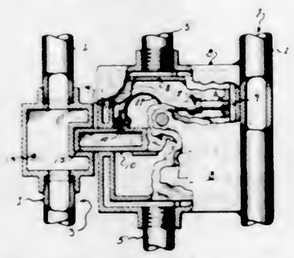
1. A method of producing preformed edible coatings for edible products, comprising: depositing in the bottom of a cup-shaped container a melted coating substance in quantity to cover the bottom and sides of the container when spread; directing a stream of air downwardly through the top of the container and centrally thereof against the melted substance to distribute the latter substantially uniformly over the bottom and sides of the container, the temperature of the air stream being sufficiently low to solidify the substance before it can be ejected from the container by the air stream.

2,663,270
COMPOSITE STUD
Robert C. Friedly, Lorain, Ohio, assignor to Gregory Industries, Inc., a corporation of Michigan
Application May 25, 1949, Serial No. 95,307
6 Claims. (Cl. 108—13)



1. A stud comprising a ferrous body portion shaped at one end thereof for end arc welding to a ferrous support and an aluminum tip portion interengagingly fixed to the other end thereof, said aluminum tip portion having a shoulder adjacent said body portion and a reduced neck extending from the shoulder on the side opposite said ferrous body portion.

2,663,271
FLUID CONTROLLED ALARM SYSTEM FOR JAILS
Otto W. Becker, Woodmont, Conn.
Application December 23, 1948, Serial No. 66,968
1 Claim. (Cl. 109—31)



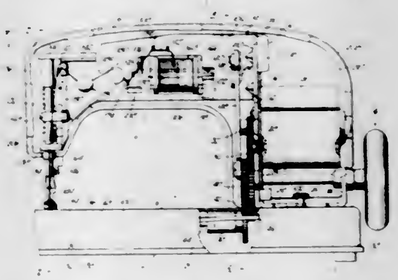
In an alarm system for prison cells and the like; a lock for connection with a closure comprising a casing defining an enclosed chamber having inner and outer spaced walls defining a liquid receiving jacket completely about the chamber, means for supplying liquid under pressure to the jacket, whereby upon puncturing of the jacket, the pressure will be lowered in the system, a key operated bolt slidable through one side of the casing, said bolt being of a hollow construction forming a closed interior chamber, and a flexible liquid conduit housed within the casing connecting the jacket to the interior chamber of the bolt, whereby puncturing of the bolt will also lower the pressure within the system.

2,663,272
MEANS FOR CONTROLLING THE AIR SUPPLY IN FURNACES AND LIKE HEATING APPLIANCES
Meredith Wooldridge Thring and Fritz Bruno Karthauser, London, England, assignors to C. U. R. A. Patents Limited, London, England
Application February 21, 1948, Serial No. 10,056
6 Claims. (Cl. 110—75)

1. A heating appliance for the combustion of solid carbonaceous fuel comprising a hearth, means for feeding solid fuel thereto to maintain thereon a stable combustion bed of fuel having a free surface, means forming a passage for conducting to a zone of use the combustion gases passing from the said free surface, air-jetting apparatus constituting the sole means for supplying combustion air to the said bed and comprising nozzle means arranged to project the said air against the said free surface so as to penetrate into the bed therethrough and also comprising means for regulating the quantity of air supplied in unit time to establish a definite rate of combustion in the bed, a regulating device for varying the effective cross sectional area of the said nozzle means for maintaining the pressure therein at a predetermined value independently of the quantity supplied in unit time, detecting means responsive to variations of pressure in the said nozzle means due to variations in the quantity of air supplied in unit time, and means controlled by the said detecting means and operatively connected to the said regulating device for operating the latter to restore the pressure to substantially the predetermined value.



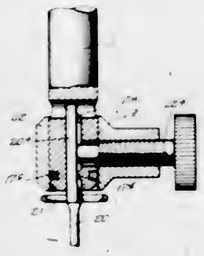
2,663,273
SEWING MACHINE CONSTRUCTION
Peter F. Cencer and Fred Whiteman, Detroit, Mich., assignors to Leonore Gidion, special administratrix of the estate of Frank M. Gidion, deceased
Application October 11, 1950, Serial No. 189,654
6 Claims. (Cl. 112—221)



4. In a sewing machine having a base, a frame mounted on the base including a vertical, transverse plate-like portion secured to the base and a horizontal portion secured to the upper end of the vertical portion and extending longitudi-

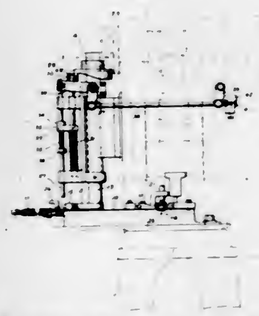
nally of the base and having its extended end unsupported, said horizontal portion being of plate-like form and having its flat sides disposed vertically, the extended end of said horizontal frame portion having a pair of vertically spaced, horizontally extending plates, a sewing needle bar reciprocably mounted in said plates, a rock bar rockably mounted on said horizontal frame portion having operative connection with said needle bar, and driving means mounted on the frame having operative connection with said rock bar.

2,663,274
THREAD GUIDE AND NEEDLE CLAMPING MEMBER FOR SEWING MACHINES
George C. Sporney, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application February 28, 1950, Serial No. 146,787
3 Claims. (Cl. 112—226)



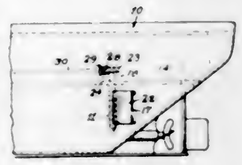
1. In a sewing machine, a reciprocable needle bar having an opening in one end thereof to receive a needle and an annular groove around said end, the needle bar between said opening and the bottom of the groove being depressed at one point so that said opening will receive in substantially one position only a needle having a flat side, and a removable thread guide comprising a wire coil having a portion received in said groove.

2,663,275
DRAW PRESS FEEDING DEVICE
William W. Collins, Bridgeport, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application October 11, 1950, Serial No. 189,662
8 Claims. (Cl. 113—38)



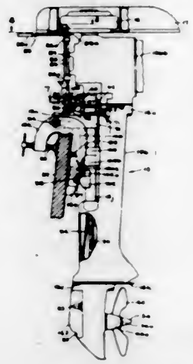
5. In a draw press including a frame and a feed member movable on said frame in a normal, full movement between a workpiece receiving position and a drawing position, the combination of means fixed on said frame to obstruct and to prevent normal, full movement of the feed member to the drawing position if a workpiece received at said receiving position is improperly positioned in said feed member; a detector mounted on said frame and projectable toward said feed member in synchronism with the normal full movement thereof; abutment means on the feed member movable therewith during said normal full movement into the line of projection of said detector to limit the amount of projection of the detector to an amount less than that which would be had in the absence of said normal full movement and the accompanying movement of said abutment means into the line of projection of said detector; and draw press stopping means including a clutch and brake operator interlinked with said detector and operable by full movement of the detector whenever there is a failure of said abutment means to limit projection of the detector and thereby to stop the draw press in case the workpiece received at said receiving station is improperly positioned in the feed member.

2,663,276
SHIP CONSTRUCTION FOR REDUCING DRAG
Albert F. Ouellet, New York, N. Y.
Application December 27, 1951, Serial No. 263,526
1 Claim. (Cl. 114—67)



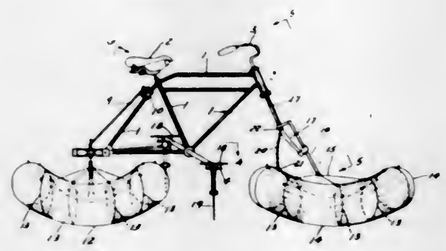
In a water-borne vessel having side plating, along the outer surface of which water moves relatively to the ship during the ship's forward progress, a vertically disposed housing arranged within the ship's hull, a tubular shaft journaled in said housing and terminating above the ship's water-line in an open end adapted for the reception of a tension equalizing medium to be delivered rearwardly along-side-ship below the water-line thereof, said plating being formed with a depression below the ship's water-line and there presenting a rearwardly extending wall surface bearing at its forward end an inwardly off-set relation to the outer surface of said plating in the vicinity of said housing and bearing at its rear end a fared-in relation to the ship's hull, and a fin carried by said shaft and accommodated within said depression for adjustment inwardly and outwardly of said depression incident to rotation of said shaft in one direction or the other, said fin being normally disposed in close proximity to the rearwardly extending wall surface of said depression and forming therewith a narrow passage terminating at its outer end substantially in the plane of the outer surface of said plating and there serving as an ejector nozzle having its inner end terminating in communication with said shaft and thus adapted for the reception of a tension equalizing medium to be supplied through that shaft in accordance with the fluid-requirements as set up within said ejector nozzle under the relative flow of water past the exit end of said nozzle.

2,663,277
OUTBOARD MOTOR WITH REVERSING MECHANISM AND CONTROL
Daniel A. Armstrong, Byron Carlson, and Carl A. Walz, Minneapolis, Minn., assignors to Scott-Atwater Manufacturing Co. Inc., Minneapolis, Minn., a corporation of Minnesota
Application September 16, 1949, Serial No. 116,131
15 Claims. (Cl. 115—18)



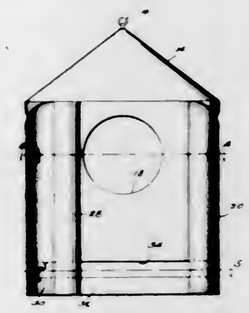
11. An outboard motor structure having in combination, a member adapted to be clamped to a boat transom, a motor casing including a shaft housing pivoted to said member for swinging movement about a substantially horizontal axis, a pivot about which said casing swings, a sleeve member slidable on said shaft housing, a second member embracing said shaft housing below said sleeve, a driving mechanism for said motor shiftable to forward, neutral and reverse positions, means for shifting said driving mechanism, and means connected to said last mentioned means and moved thereby when said mechanism is shifted to reverse position to move said sleeve into engagement with said second member to prevent said casing from swinging away from said first mentioned member and boat transom and a rigid link pivoted on said pivot and connected to said second member for automatically retaining said second member a fixed distance from said axis.

2,663,278
WATER BICYCLE
Robert S. Skinner, Birmingham, Ala.
Application March 26, 1951, Serial No. 217,488
1 Claim. (Cl. 115—27)



A water bicycle of the character described comprising a bicycle frame with a seat attached thereon, handle bars, two foot pedals mounted in the lower part of said frame, a flat metal plate attached to the upper face of each of said pedals, a paddle member attached to and depending from the under face of each of said pedals, each paddle positioned at a ninety degree angle compared with the flat plate mounted above it on the same pedal; each of said paddles being submerged in the water during approximately the lower half of its revolution.

2,663,279
TRAFFIC CONTROL SIGNAL
Herbert H. Grooms, West Union, Ohio
Application August 18, 1952, Serial No. 305,010
3 Claims. (Cl. 116—63)

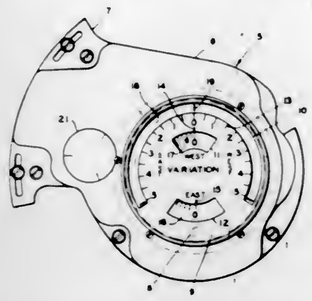


1. In a traffic control signal an elongated vertically disposed housing having an annular row of peripherally spaced diametrically opposed windows opening through the side thereof, a shaft mounted in the housing for rotation about the axis thereof, means carried by the housing and operatively connected to said shaft for continuously rotating the shaft at a relatively slow speed, a head carried by said shaft within the housing for rotation with said shaft, diametrically disposed humps carried by the head and projecting upwardly therefrom, oppositely sloping surfaces carried by the head and converging between the humps for defining oppositely disposed depressions in the head, a spindle mounted within the housing for rotation about and movement longitudinally along the axis of the shaft, a drum carried by the spindle for movement therewith, said drum having windows opening therethrough for registration with the windows in the housing, illuminating means within the drum, a cross pin carried by the spindle and engaging the sloping sides of the humps, stop fingers carried by and extending outwardly from the drum, and stops carried by the housing and projecting into the path of movement of the stop fingers for holding the drum against rotation while the cross pin is between the humps on the head.

2,663,280
VERNIER INDICATING INSTRUMENT
Robert T. Maiorany, New York, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application June 15, 1951, Serial No. 231,884
8 Claims. (Cl. 116—129)

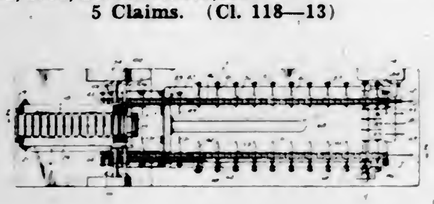
1. An instrument of the class described comprising a fixed dial, a pair of movable dials coaxial with each other and with said fixed dial,

means moving said movable dials at different speeds, and scales on said dials having reference



markings cooperating with one another and corresponding to the speeds of said movable dials.

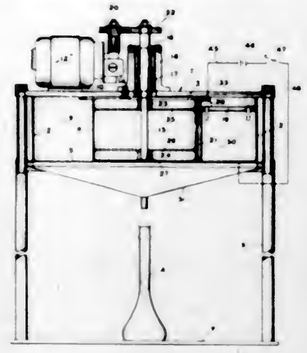
2,663,281
MACHINE FOR COATING FRANKFURTERS
George J. Wright, Berkeley, and Ralph J. Wright, Albany, Calif., assignors, by mesne assignments, to Fritter-Chef Corporation, Berkeley, Calif., a corporation of California
Original application November 25, 1948, Serial No. 61,316. Divided and this application July 31, 1951, Serial No. 239,551
5 Claims. (Cl. 118—13)



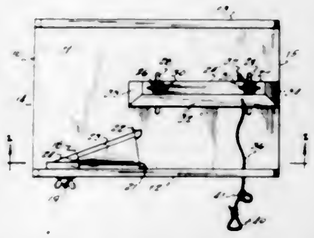
1. A machine for coating a frankfurter with batter comprising, a batter container, a roller mounted over said container with only a portion of its perimeter disposed within said container, a frankfurter conveyor mounted above said roller and including means to support frankfurters for linear movement over said roller in close proximity to the periphery thereof and with the longitudinal axes of the frankfurters and roller parallel, means rotating the roller, and means effecting rotation of the frankfurters independent of said roller rotation while moving over the roller.

2,663,282
ROTARY RAT FATIGUE MACHINE
Dwight J. Ingle, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
Application August 4, 1951, Serial No. 240,415
4 Claims. (Cl. 119—29)

1. In a device for effecting movement of an animal being subjected to testing with respect to its expenditure of energy, the combination comprising: an enclosure defining an endless passageway, an electrically conductive floor for said passageway; an electrically conductive partition substantially closing said passageway; a source of constant electrical potential; means applying an electrical potential to said partition from one side of said source; the other side of said source being connected to said floor; means operatively connected to said partition for moving said partition around the length of said passageway at a predetermined rate of speed.



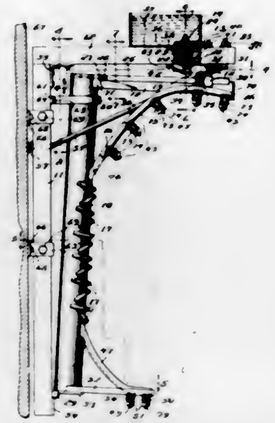
2,663,283
ANIMAL HANDLING DEVICE
J D. Julius, Fort Worth, Tex.
Application June 14, 1952, Serial No. 293,614
4 Claims. (Cl. 119—103)



1. In a device for holding pigs in castration operations, in combination, a table having a vertical flange along each of its longer parallel edges, a semi-conical casing secured to one of said flanges and adjustable longitudinally thereof, a retention bar arranged on said table intermediate and parallel to said flanges and adjustable laterally with respect to said casing, a cord connected to said bar and slidably extending through one of said flanges whereby an animal on said table having its nose in said casing can be securely held between said retention bar and one of said flanges.

2,663,284
CATTLE AND HOG OILER
William J. Stonesifer, Taneytown, Md.
Application June 22, 1951, Serial No. 232,927
4 Claims. (Cl. 119—157)

1. A cattle and hog oiler comprising a vertically positioned rubbing post, a frame, means pivotally mounting the lower end of the post in the frame, a container carried by the frame, an arcuate chute having spaced openings in the bottom thereof carried by the post and extended to receive fluid from the container, valves in the openings of the chute and positioned with stems thereof extended through the bottom of the chute and positioned to be engaged by an animal rubbing against the post, springs on the valve stems for urging the valves to closed positions a valve positioned in the lower end of the container, and means operatively associated with the valve of the container for opening the valve to release



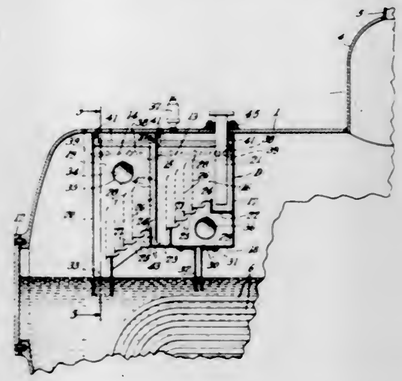
fluid in the container upon engagement of the post by an animal, said container positioned whereby fluid drops into the chute as an animal engages the post.

2,663,285
LIFTING APPARATUS
Blaine Johnston, Pasadena, and John C. Mason, Bellflower, Calif.; said Johnston assignor, by mesne assignments, to said Mason
Application April 23, 1949, Serial No. 89,327
12 Claims. (Cl. 121—46)



1. An hydraulic device of the character described comprising a cylinder, a piston reciprocable therein, a cable fixed at one end to and operated by said piston, said cable passing through one end of said cylinder, and a plurality of telescoping tubes for sheathing said cable including a fixed tube fixed to said one end of the cylinder and another tube fixed to said piston, said tubes other than said fixed tube being each provided with annular guide means at one end to guide the same in said cylinder.

2,663,286
DEAERATING AND EVAPORATING UNIT
George A. Worn, Greenwich, Conn., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application April 19, 1950, Serial No. 156,791
2 Claims. (Cl. 122—417)

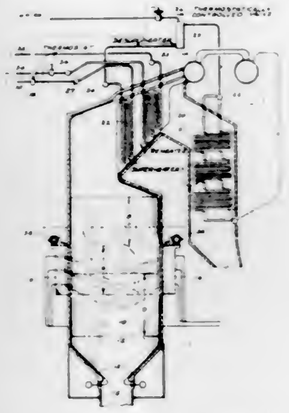


2. A self-contained evaporator and deaerator unit comprising a shell forming the evaporator body and affording a space for charge liquid within the lower portion thereof and an overlying vapor space, heating means within said liquid space to vaporize the liquid therein by indirect heat exchange comprising a bundle of tubing and connections for circulating a heating fluid therethrough, the shell having a vapor outlet leading from said vapor space; and deaerating apparatus within said vapor space and comprising casing means offset from said vapor outlet of the shell and forming a deaerating chamber, said chamber having an inlet for said charge liquid, a vapor-excluding outlet for said liquid from the chamber in delivery communication with said liquid space within the shell and a vapor inlet for the chamber in delivery communication with said vapor space within the shell, and baffle means in the path of flow of the liquid from said liquid inlet to said outlet of the chamber and including portions spaced along said path and extending crosswise thereof and having numerous perforations to cause divided flow of the liquid, said baffle means being correlated with the vapor inlet of said chamber to effect deaerating contact of the admitted vapor with the liquid in said divided flow thereof, said baffle means being spaced above the bottom of said chamber, said vapor inlet being located to admit vapor into the space beneath the baffle means, and an air outlet from said chamber above the baffle means.

2,663,287
SUPERHEAT AND REHEAT CONTROL
Wilbur H. Armacost, Scarsdale, N. Y., assignor to Combustion Engineering, Inc., a corporation of Delaware
Application September 17, 1948, Serial No. 49,699
4 Claims. (Cl. 122—479)

4. The method of regulating temperature of steam from a superheater and associated reheater handling the same steam and absorbing their heat mainly by convection from gases leaving the outlet of the same water tube cooled furnace comprising: introducing fuel and air into the furnace for creating a gas mass to radiate

heat to the water tubes thereof; maintaining, for a given load, a substantially uniform rate of fuel firing; passing the gases from the furnace over the reheater and reheating steam passing therethrough, directing the gases subsequent to their passage over the reheater into contact with superheating elements of a capacity capable of heating the steam to a temperature above a predetermined value desired at other loads than the maximum designed load; and as the reheated



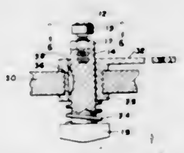
steam temperature increases, increasing the amount of cooling of the gases of combustion in imparting heat to said water tubes prior to discharge from the furnace so as to lower the temperature of gases flowing over the heater and reheater; and injecting water into the superheated steam in proportion to fluctuation of its temperature from said predetermined value to reduce said temperature to said value at loads other than the maximum designed load.

2,663,288

VARIABLE TIMING CAM FOLLOWER

James R. Hutchison, Palm City, Calif., assignor of one-half to Loyd F. Ashley, Chula Vista, Calif.

Application September 2, 1952, Serial No. 307,500
4 Claims. (Cl. 123—90)



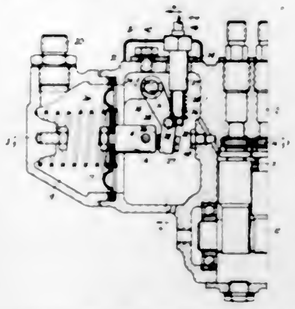
3. Variable timing valve operating means for use with poppet valves, comprising a valve lifter having a cam follower with a working face transversely convex and having a rectilinear crest, and adjusting means for rotatively shifting said cam follower about an axis normal to said crest, whereby the effects of a convex and a flat working face are alternatively obtained, said adjusting means comprising a sleeve bushing for said valve lifter, means preventing relative rotation of said bushing and valve lifter while allowing relative axial movement, and means for rotatively adjusting said bushing and lifter about their common axis.

2,663,289

REGULATOR FOR INJECTION COMBUSTION ENGINES

Heinrich K. Links, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany

Application July 18, 1951, Serial No. 237,358
Claims priority, application Germany July 18, 1950
8 Claims. (Cl. 123—140)



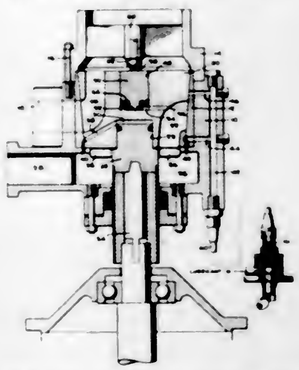
1. In a pneumatic governor of a fuel injection pump for an internal cumbustion engine of the type having a diaphragm-actuated fuel control member responsive to a throttle in the air intake conduit of the engine, and a stop mounted for common movement with the closing movement of said throttle from an operative position in which it limits the travel of said control member in a fuel-increasing direction to an inoperative position when the throttle is closed, the combination with said stop of a detent adapted to detain said stop in said inoperative position irrespective of the position of said throttle, when said diaphragm-actuated fuel control member is relaxed upon stoppage of the engine, and to be disengaged from said stop under control by said control member, when the engine is started.

2,663,290

ROTARY VALVE

Robert Braun Walder, Los Angeles, Calif.

Application March 31, 1948, Serial No. 18,132
10 Claims. (Cl. 123—190)



1. In a balanced rotary valve construction suitable for use in internal combustion engines, a housing having a valve seat therein, a rotary valve having a working fit on said seat, means for supplying a lubricant at timed intervals under pressure to the working surfaces of said valve and seat, a pressure chamber having one wall thereof reacting against said housing and other wall thereof reacting against said valve in a direction to unseat said valve, a duct providing communication between said chamber and the lubricant under pressure whereby said valve is unseated sufficiently at timed intervals to permit the lubricant to flow between the working surfaces of said valve and seat, said valve seat being further characterized by having a port therein controlled by said valve, a pressure chamber having one wall reacting against an end of said valve and a passageway in said valve providing communication between said pressure chamber and said valve seat port when said valve is in intermittently timed closed position with respect to said port whereby a fluid confined under pressure within said port will urge said valve against its seat.

2,663,291

TOY CATAPULTING GUN

Charles G. Hall, Los Angeles, Calif., assignor of one-half to Louis V. Dieter, Los Angeles, Calif.

Application November 7, 1950, Serial No. 194,462
2 Claims. (Cl. 124—17)



1. A toy catapulting gun, as shown, having a handle portion and a barrel secured thereto and having its top formed as an open slot for the greater portion of its length, the outer end thereof being closed and having a coiled spring secured therein to serve as an abutment for the catapulting device, an elastic rubber extended through said barrel and through said coiled spring and secured in the outer end of said barrel, a tubular guide portion in the opposite end of said barrel and to which said elastic rubber is attached for pulling it through said barrel, said tubular guide portion having a web portion extended through the open slot in the top of said barrel and provided on its upper edge with an article-holding member to receive articles to be catapulted therefrom as said member is forced with said tubular guide portion and said web portion through said barrel and its open slot to the outer end of said barrel, and a trigger-operated latch element for holding said tubular guide portion and said article-holding member in the rear end of said barrel with said elastic rubber under tension for discharge.

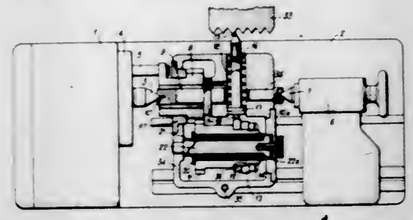
2,663,292

DEVICE FOR TRUING THE GRINDING WHEELS OF GRINDING MACHINES

André Mottu, Genthod-Bellevue, Switzerland, assignor to Societe Genevoise d'Instruments de Physique, Geneva, Switzerland, a firm of Switzerland

Application October 18, 1952, Serial No. 315,469
Claims priority, application Switzerland November 10, 1951
6 Claims. (Cl. 125—11)

1. In a grinding machine, comprising a grinding wheel, a head-stock and a tail-stock the common axis of which stocks is parallel with the axis of the grinding wheel, a table adapted to move longitudinally in a direction parallel with the axis of the head- and tail-stock and carrying said head- and tail-stock, and a lead screw operatively connected with said table for controlling its longitudinal reciprocation; a device adapted to true the grinding wheel and including: a casing located between said head- and tail-stock, a cutter-holder mounted in said casing so as to reciprocate in a direction perpendicular to the axis of the head- and tail-stock, a cutter carried by said cutter-holder, two rotary and axially movable cams operatively connected with said lead screw and adapted to selectively engage the cutter holder to impart thereto intermittently a movement towards the axis of the



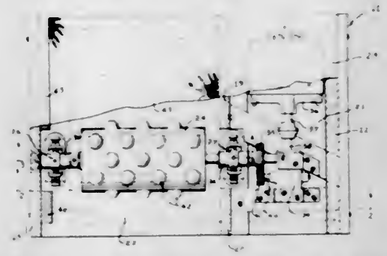
grinding wheel to true the outline thereof, a spring urging the cutter back during the idle periods of the rotation of the operative cam and means controlling the axial displacements of said cams, said means being actuated by the change of direction of rotation of said lead screw for urging axially the corresponding cam into position to provide an operative inward stroke of the cutter progressing with the table in the direction to be considered.

2,663,293

FOOT MASSAGER

Wordsworth Mosgrove Elliott, Durango, Colo.; W. C. Elliott, executor of said Wordsworth Mosgrove Elliott, deceased

Application August 5, 1952, Serial No. 302,739
1 Claim. (Cl. 128—56)



A foot massaging device comprising a supporting frame, a roller journaled horizontally in said supporting frame, a motor mounted in said frame, means drivingly coupling said motor to said roller for rotating the roller in the frame, a plurality of longitudinal rows of evenly spaced rounded projections arranged in staggered relationship on said roller, the upper peripheral portion of the roller being substantially in the horizontal top plane of the frame, and a cover member of flexible sheet material secured to the top portion of said frame in overlying contact with said roller.

2,663,294

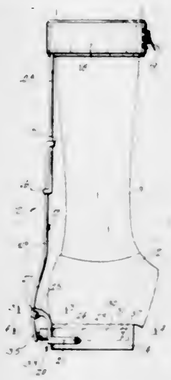
DROP FOOT BRACE

John R. Harrison, Woodhaven, N. Y.

Application January 5, 1952, Serial No. 265,105
3 Claims. (Cl. 128—80)

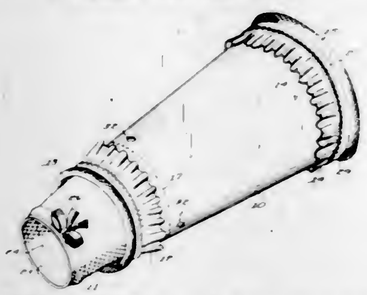
1. A drop foot brace including a leg engaging member comprising an upper bar secured to said leg engaging member, a bottom bar member slid-

ably secured to said upper bar member and terminating adjacent the heel portion of a shoe, an arcuate yoke member pivotally secured adjacent the lower end of the bottom bar member, said yoke member including a U-shaped bracket



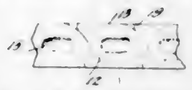
to be secured to a shoe and a hollow tube retained between the U-bracket and including plunger means adapted to engage the bottom of said bar member whereby the toes are maintained in raised position and stop means on the lower bar member to limit vertical movement.

2,663,295
BABY CUFF
Bernard C. Lewandowski and Frank V. Lewandowski, Buffalo, N. Y.
Application October 31, 1951, Serial No. 254,150
1 Claim. (Cl. 128—133)



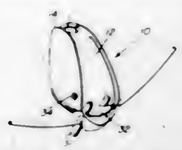
A cuff for a child's arm for use in selectively limiting bending of the child's arm at the elbow, comprising a frusto-conical shaped body adapted to surround the elbow of the child, an annular resilient sleeve extending from one end of said body and secured thereto, said sleeve including an inner portion and an outer portion defining an annular channel therebetween adjacent the free end of said sleeve, a flexible tape extending through said channel, said sleeve having a portion extending into said body and being secured thereto at points spaced from the ends of the body, a bead including a flexible strip extending around the edge of said body and secured thereto, a resilient padding positioned within said strip, there being a plurality of ventilating openings in said body, a second strip secured over the other edge of said body, a resilient padding positioned within said last named strip, and a web extending over a portion of said padding and secured to the inner surface of said body and to said last named strip.

2,663,296
TOE PLEDGET
Burton D. Morgan, Loudonville, N. Y.
Application January 7, 1953, Serial No. 330,119
7 Claims. (Cl. 128—153)



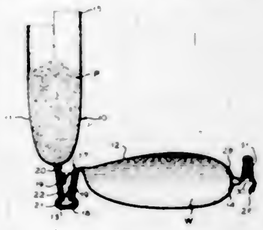
1. A toe pledget comprising a body of soft fibers shaped to lie between the toes, parallel lengths of soft cord embedded in said body and adapted to lie respectively above and below the toes, and a rearward extension shaped to lie upon the foot rearwardly of the roots of the toes.

2,663,297
NASAL ADAPTER FOR OXYGEN INHALATION
Clarence F. Turnberg, San Francisco, Calif., assignor of one-half to Harold G. Belasco, San Francisco, Calif.
Application January 19, 1953, Serial No. 331,761
4 Claims. (Cl. 128—206)



1. A nasal adapter for oxygen inhalation comprising a body, a thickened portion at the base of said body, spaced apertures extending through said thickened portion and through said body, a horizontally arcuate extending groove in said thickened portion forming a resilient clamping slot joining said apertures, said slot and said apertures lockingly receiving a cannula.

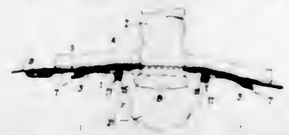
2,663,298
APPARATUS AND METHOD FOR ADMINISTERING PARENTERAL SOLUTIONS
Hilton W. Rose, Arlington, Va.
Application June 16, 1950, Serial No. 168,431
7 Claims. (Cl. 128—214)



1. An apparatus for administering blood plasma comprising an elongated flexible container formed from a single sheet of transparent plastic material doubled upon itself to provide a closed bottom and an open mouth, one wall of said mouth extending beyond the other to provide an overlapping extremity for sealing said mouth, suspension means connected with said overlapping sealed portion, the longitudinal edges of said container being united, said container having a reduced central portion providing communication between opposed bag-like receptacles, the receptacle adjacent the sealed mouth adapted to contain dried plasma and the receptacle adjacent

the closed bottom adapted to receive distilled water, frangible clamping means on said reduced central portion whereby removal of said clamping means will provide fluid communication between said opposed receptacles to restore said dried plasma to liquid form, a discharge tube communicating with the interior of said container at the closed bottom thereof to permit the dispensing of restored plasma from said apparatus, clamping means on said discharge tube to prevent entry of fluid into said tube prior to the dispensing operation, and strainer means in said container to prevent any particles of dried plasma from entering into said discharge tube.

2,663,299
ILEOSTOMY POUCH HOLDER AND SKIN PROTECTOR
Harrison J. Shull, Nashville, Tenn., assignor to John B. Youmans, trustee for Vanderbilt Associates, Nashville, Tenn.
Application July 28, 1952, Serial No. 301,230
6 Claims. (Cl. 128—283)



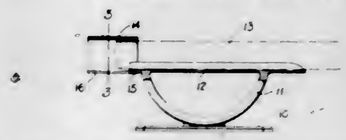
1. A pouch-holder and skin-protector for ileostomies or the like, comprising: a thin relatively rigid disk having a central opening therein larger than normal ileostomy or like buds; a shallow collar surrounding said opening and firmly attached to said disk, said collar having outwardly directed extensions to form an annular depression to receive and hold a beaded rim of an elastic pouch; and a diaphragm of soft yieldable material covering said opening whereby a bud-fitting opening may be cut therein.

2,663,300
CIGARETTE HOLDER
Sergio De Pinto, Staten Island, N. Y., assignor of one-tenth to Salvatore Mezzacappa and Lucy Mezzacappa, both of Staten Island, and one-tenth to William Auerbach, New York, N. Y.
Application May 3, 1950, Serial No. 159,758
5 Claims. (Cl. 131—175)



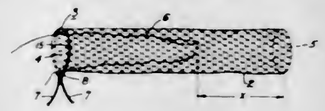
1. A cigarette holder, comprising an ash container, means to permit a cigarette to enter said container, including a tubular member extending into said container at one end thereof for receiving the cigarette and a spring member arranged within said tubular member for pushing one cigarette end into said ash container, a metal sleeve in said container, and a stop member slidably supported in said metal sleeve and extending into said ash container at the end thereof which is opposite to the cigarette receiving end for stopping said cigarette end in two predetermined positions with respect to said container, namely, a position in which the cigarette end is substantially in the center of the container, and a substantially peripheral position with respect to the ash container in which the cigarette end is surrounded by said metal sleeve.

2,663,301
COMBINATION CIGARETTE SUPPORTING AND EXTINGUISHING DEVICE
Harry L. Bachman, Sr., Columbus, Ohio
Application November 22, 1950, Serial No. 197,095
1 Claim. (Cl. 131—256)



A cigaret-supporting and extinguishing device, comprising an elongated substantially horizontally disposed tray having a shallow trough adapted to receive a burning cigaret; and a tubular sleeve carried rigidly at one end of said tray, said sleeve being formed with a bore extending therethrough and into which the burning end of a cigaret positioned in the trough of said tray may be inserted, said sleeve being formed with a longitudinally extending open slot through which air may pass radially inwardly of the sleeve, said slot extending linearly of the sleeve from the end of the trough, with the slot located in the lowest portion of the sleeve in order to provide necessary draft for maintaining for a limited period of time combustion of the burning end of the cigaret following insertion thereof into said sleeve, said sleeve having a diameter slightly larger than the diameter of the cigaret, the wall of said sleeve being disposed in partial overlapping and radially offset relation to the trough of said tray, whereby the burning end portion of a cigaret positioned in the bore will be maintained in spaced relation to the wall thereof.

2,663,302
CURL HOLDER
Ruth N. Palitti, San Francisco, Calif.
Application September 4, 1951, Serial No. 244,903
4 Claims. (Cl. 132—43)

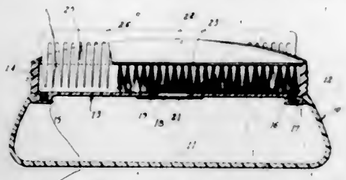


1. A holder for an individual curl upon which said curl is adapted to be formed while a normal finger is inserted in said holder comprising a relatively narrow tubular sleeve of flexible open mesh material having a width to permit the insertion of said finger, the length of said sleeve being at least two times its width whereby its outer end portion is adapted to extend beyond the tip of said finger, and an elastic band adjacent the inner end of said sleeve enabling an inner end portion of said sleeve to be turned inside out with the band encircling the root end of the curl.

2,663,303
COMBINATION COMB, BRUSH, AND HAIR RECEIVER
Dora Winchester, Miami, Fla., and Eric K. Lotthammer, Jamaica, N. Y.; said Lotthammer assignor to said Winchester
Application May 23, 1951, Serial No. 227,792
1 Claim. (Cl. 132—86)

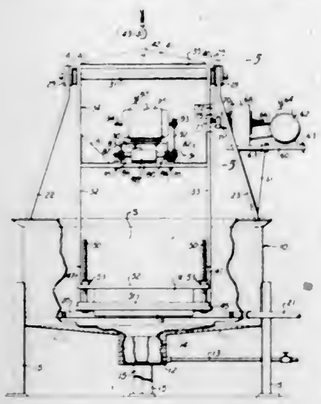
A hair receptacle brush and comb combination comprising a hair receptacle having a bottom portion and a surrounding wall portion, a cover

releasably attached to the wall portion and having an opening in the bottom portion through which hair may be extended to the receptacle, said cover having a raised wall portion, a brush having a backing fitting about the raised wall portion and having bristles extendable into the wall portion of the cover and said brush having an elongated slot in the backing thereof and a comb slidably fitted into said slot, and said cover for the receptacle having detent devices engageable with the wall portion of the receptacle to



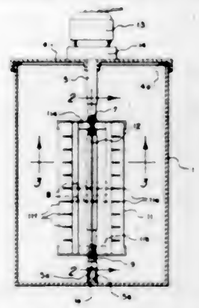
releasably hold the cover thereupon, said slot in the brush backing extending through the bottom face of the backing so that the comb extended through the slot may be embedded in the brush bristles, and flexible sheet means secured to the bottom of the cover and lying over the opening thereof, said flexible sheet means being slit regularly from the center thereof to receive a finger with a lock of hair and to remove the lock of hair from the finger upon the return movement of the finger.

2,663,304
RADIATOR CLEANING APPARATUS
David Jesse Logan, Taylorsville, N. C., assignor of ten per cent to John Ray Jennings and ten per cent to Abner C. Payne, both of Taylorsville, N. C.
Application December 10, 1951, Serial No. 260,868
8 Claims. (Cl. 134—105)



4. Apparatus for cleaning radiators and the like comprising a tank, a plurality of uprising beams secured to said tank, a swing oscillatably and removably mounted in said upstanding beams, a platform secured to the lower portion of said swing and being disposable within the confines of said tank, means on said platform for securing a radiator thereto, a first driving means mounted on one of said upstanding beams and connected to said swing for oscillating the same in said tank, and a second driving means carried by said swing and having off-center weight means associated therewith for setting up vibration of said swing whereby said tank may be filled with cleansing solution and a radiator to be cleaned may be positioned on the platform of said swing and may be oscillated within the tank and may also be vibrated during the cleaning process.

2,663,305
MICROSLIDE WASHING MACHINE
Eugene A. Anderes and Eula J. Anderes, San Diego, Calif.
Application December 11, 1950, Serial No. 200,200
5 Claims. (Cl. 134—140)



1. In a washing machine, a container, a shaft movably mounted in said container, a frame removably mounted on one side of said shaft, said frame having side portions provided with opposed slots therein for retaining opposite ends of micro-slides, a resilient slide retainer removably connected to the middle of said frame extending transversely of said slots for engaging edges of micro-slides supported in said slots, said retainer being configured to engage and to retain slides in said slots, said shaft having clips thereon removably and directly engageable with opposed end portions of said frame, a cover for said container, having an oscillating motor thereon, connected with said shaft for operating the same.

2,663,306
TENT
Floyd M. Davis, Los Angeles, Calif.
Application September 12, 1949, Serial No. 115,283
9 Claims. (Cl. 135—4)



8. In a device of the class described, a plate member provided with a plurality of openings, a plurality of pole members each having the upper end portion thereof extending up through one of

said openings and movably secured therein, a rod member vertically slidable in one of said openings; said rod provided with an eye on its top end and bent at its bottom end to form a ring portion, a plurality of rod lengths each having an eye on each end thereof; said last mentioned rods respectively movably secured at one end to said ring portion and at the other ends respectively to one of said poles, and a guide means arranged on said first mentioned rod above the said plate member and designed to prevent said poles from becoming crossed when said poles are being radially extended.

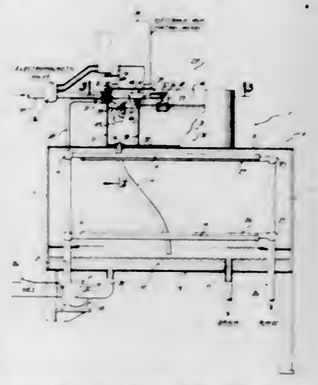
2,663,307
WASHOUT SUB FOR WELL PACKERS
Louis J. Birdwell, Oklahoma City, Okla., assignor to American Iron and Machine Works Company, Oklahoma City, Okla., a corporation of Delaware
Application July 16, 1949, Serial No. 105,154
4 Claims. (Cl. 137—68)



1. A washout device for installation in a tubing string at a point directly above a well packer, having in combination: a tubular upper head having its upper end adapted for attachment to the lower end of a section of production tubing to form a continuation thereof; two concentric bodies telescopically contacting the lower portion of the upper head, both exteriorly and interiorly, and slidable vertically with relation thereto; normally open outlet ports in the walls of said bodies for exhausting a washing fluid from the innermost body, said ports adapted to be closed by downward movement of the upper head; means for limiting vertical movement of the bodies; a lower tubular head carried by the lower ends of said bodies and adapted for attachment to the upper end of a packer; and a resilient annular sealing element supported by the lower head between the lower ends of the tubular bodies for sealing with the lower end of the upper head, when it is at the lower end of its travel.

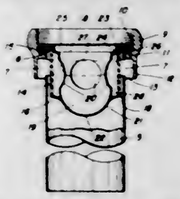
2,663,308
UNITARY SOLUTION CONTROL APPARATUS
John G. Hodgens, Jr., Chippewa Falls, Wis., assignor to The Diversey Corporation
Application January 25, 1950, Serial No. 140,370
11 Claims. (Cl. 137—93)

1. Unitary solution control apparatus of the character described, comprising: a tank having a bottom wall and upright side walls; means defining a mixing compartment in one portion of the tank having an outlet in a lower portion thereof connectable with a supply of solution which requires regeneration from time to time; means in the tank defining a testing receptacle adjacent to said mixing compartment and adapted to receive solution from the supply thereof; an overflow connection between the testing receptacle and the mixing compartment whereby solution delivered to the testing receptacle fills the same to a predetermined level and overflows into the mixing compartment for return to the solution supply; means defining a regenerating vessel in said tank adjacent to the testing receptacle and the mixing compartment



adapted to contain a regenerating liquid; means providing an overflow connection between said vessel and the mixing compartment at a higher lever than that of the solution in the testing receptacle whereby liquid delivered to the regenerating vessel fills the same to said higher lever and overflows into the mixing compartment; and a trough on the tank below the level of the overflow connection between the vessel and the mixing compartment and outside the vessel to receive the overflow from said vessel, a portion of said trough being above the testing receptacle and having a hole therein for diverting into the testing receptacle a relatively small proportion of the liquid which overflows from the regenerating vessel.

2,663,309
VACUUM BREAKER
Jacques J. Filliung, Chicago, Ill., assignor to Sloan Valve Company, Chicago, Ill., a corporation of Illinois
Application December 16, 1949, Serial No. 133,456
9 Claims. (Cl. 137—218)



1. In a vacuum breaker for a water supply system, a vertical tubular casing having air ports around the sides thereof, a cup-shaped member inside said tubular casing having water ports around the sides thereof and being closed at its bottom end, a flexible sleeve member arranged between said tubular casing and said cup-shaped

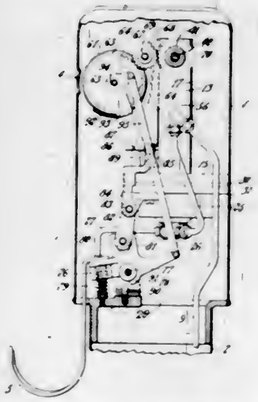
member adapted to close said air ports responsive to water flow and to close said water ports responsive to a vacuum condition, said water ports and said air ports being disposed in substantial horizontal alignment whereby water flow is directed through said water ports transversely against the inside vertical wall of said flexible sleeve member to force the same outward directly against said aligned air ports to seal them against leakage, and whereby under vacuum conditions atmospheric pressure is directed through said air ports transversely against the outside wall of said flexible sleeve member to force the same inward directly against said aligned water ports to seal them against back syphonage, and an inwardly extending annular flange around the lower open end of said flexible sleeve member, the closed bottom end of said cup-shaped member projecting through said annular flange and contacting the same at a point between the bottom end of said cup-shaped member and said water ports, and means for clamping said tubular casing, said cup-shaped member and said sleeve member together at one end.

2,663,310

CONTROL FOR APPARATUS FOR DISPENSING COMPRESSED FLUID IN PULSES

George J. Heckman, Longmeadow, Mass., and Edward M. Paterwic, Thompsonville, Conn., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts

Application July 1, 1952, Serial No. 296,656
4 Claims. (Cl. 137—225)



1. In apparatus for dispensing compressed fluid in pulses through a dispensing conduit, which has a first and relatively inexpansible section and a second flexible and relatively expansible terminal section for connection to a receiver to be serviced, and wherein the flow through the conduit is started and stopped by a valve in the first section of the conduit that is opened and closed by a spring-opposed fluid-pressure motor, having a chamber connected by a single and relatively inexpansible third conduit section to the first conduit section between said first-named valve and the second conduit section, and wherein a timing valve located in said third conduit section has a flow-limiting orifice of restricted cross sectional area therethrough enabling flow through the timing valve when closed, the improvement which consists in providing a second flow-limiting orifice of restricted cross sectional area in the first conduit section between said third and second conduit sections, whereby the duration of the pulses is controlled by two orifices which are interconnected by relatively inexpansible sections of the dispensing conduit.

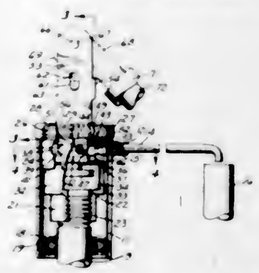
3. In apparatus for dispensing compressed fluid in pulses through a dispensing conduit, including a flexible hose, of the type wherein a valve in the conduit is opened and closed by a fluid-pressure motor responsive to the conduit pressure and having a loading spring, the pressure of which is variable by manually-operated means, connected to actuate an indicator, showing the pressure for which the spring is set, and a hose-hook lever, which is movable from a first to a second position, accordingly as the weight of said hose is or is not imposed thereon, operates a member which holds said valve closed when the lever is in its first position; the improvement consisting of yieldable means for arresting said lever in its second position when moved thereto from its first position, said means being yieldable by manual pressure on the lever to enable it to be moved beyond the second position to a third position, and a member connected to and movable by said lever, when moved from its second to its third position, to hold said valve in open position against the action of said motor.

2,663,311

FLOAT VALVE STRUCTURE

Stephen Samaras, Oakland, Calif., assignor to Samaras Valve Corporation, Oakland, Calif., a corporation of California

Application July 12, 1948, Serial No. 38,200
1 Claim. (Cl. 137—437)



In a liquid-receiving tank including a substantially vertical riser pipe through which liquid may flow to enter said tank, a liquid discharge tube surrounding and concentric with the upper end portion of said riser pipe and removable therefrom, said tube having the lower end thereof open to the interior of said tank, means interposed between the outer periphery of said riser pipe and the inner peripheral surface of said discharge tube adjacent the lower end of the latter for retaining said pipe and tube in relative concentric relation, a valve housing having an inlet communicating with said riser pipe and an outlet through which liquid entering said valve housing may flow, said outlet terminating within said discharge tube whereby liquid flowing therefrom will pass through said tube and discharge at the lower end thereof.

2,663,312

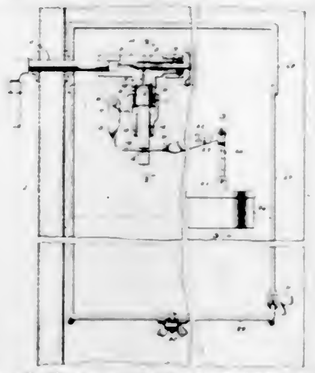
FLOAT VALVE FOR WATER DISPENSERS

Joseph Continenza, Stuart, Fla.

Application April 12, 1950, Serial No. 155,428
2 Claims. (Cl. 137—445)

1. In a float valve construction for a water dispenser, a valve body adapted to be fixedly

mounted within a dispenser container, said valve body having a vertical bore and having a counterbore below and in communication with said vertical bore, the lower end of said valve body being externally threaded; a tubular bracket having a vertical bore coaxial with the bore and counterbore of the valve body, said tubular bracket being internally threaded at its upper end for adjustable connection to the threads of the valve body; an ear projecting laterally from and rigid with said bracket; a plunger member vertically reciprocable in the bore of the bracket and formed at its upper end with a valve head disposed within said counterbore, said valve head being engageable in the upper position of the plunger member against



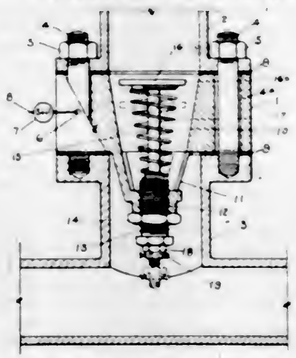
the base of the counterbore, whereby to close the bore of the valve body; a float support arm having a horizontal intermediate portion connected with said plunger member, one end portion of said float support arm being rigid with said intermediate portion and extending upwardly from said intermediate portion in approximate parallelism with said plunger member, said end of the float support arm being pivotally connected to the ear of the bracket; and a float connected to the other end of the float support arm, the bracket when threaded upwardly upon the valve body bodily carrying therewith the plunger member and float support arm, whereby to control the seating of the valve head against the base of the counterbore.

2,663,313

SPEED CONTROL MECHANISM FOR AUTOMOBILES

Sebastian B. Doyle, Miami, Fla.

Application May 25, 1950, Serial No. 164,210
7 Claims. (Cl. 137—479)



1. A device of the class described comprising a body member, a fluid passageway axially disposed

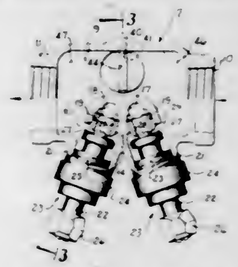
in said body member, said passageway having tapering walls in a direction toward one end of said body member, valve support means mounted at said one end of said body member, a bore in said valve support means, a bushing mounted in said bore, a valve slidably mounted in said bushing and having a valve head positioned at the other end of said body member in said fluid passageway, resilient means positioned between said valve head and said bushing adapted to yieldingly maintain said valve head in said other end, locking means for securing said bushing in position, and stop means mounted at the free end of said valve.

2,663,314

VALVE FOR WATER CONDITIONING DEVICES

Vernon J. Palmer and Julius S. Judell, Milwaukee, Wis., assignors to Bruner Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application September 19, 1949, Serial No. 116,471
5 Claims. (Cl. 137—599.1)



1. A valve unit for diverting part of the water flowing in a feeder line into a receptacle, said valve unit comprising: a body having a main passage therethrough the ends of which provide inlet and outlet ports connectable with a water feeder line so that said main passage may form a section of the feeder line; means on said body defining a branch passageway opening to the exterior of the body and to the main passage therein for communicating the main passage with a receptacle; and yieldable means in the main passage downstream from the mouth of said branch passageway defining a restriction extending substantially transversely across said main passage to restrict the same sufficiently to cause part of the water entering the main passage at low velocity to be diverted into said branch passage, said restriction being yieldable in consequence to the force of water entering the main passage at higher velocity to a position less restricting the passage to thereby avoid an objectionably high pressure drop at the downstream end of the passage.

2,663,315

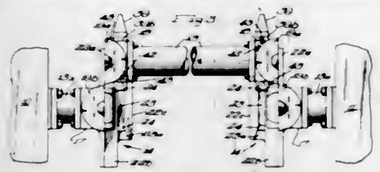
SELF-ALIGNING QUICK DISCONNECT COUPLING

Jacob Rush Snyder, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application July 26, 1949, Serial No. 106,929
6 Claims. (Cl. 137—614)

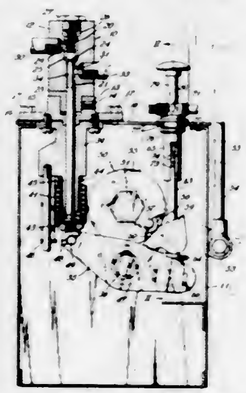
1. A multiple fluid flow conduit assembly comprising, in combination, at least two conduit units arranged in spaced relationship and a self-aligning coupling assembly therefor, including a conduit for establishing a fluid passage between said conduit units, female parts on each end of the conduit, male parts on each of the conduit

units, said male and female parts comprising complementary elements with ports therein for fluid flow therethrough, each of said male parts being provided with an offset shelf portion defining a key slot with tapered finding ends and a keyway shoulder therein, each of said female parts carrying a key defining a locating shoulder to cooperatively abut the shoulder in said key slot, a multi-piece valve rotatably mounted in



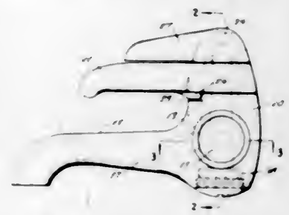
each cooperating pair of said male and female parts to detachably connect the same, and means retaining a portion of said valve in each part for sealing the ports when the parts are disconnected, whereby said coupling assembly may be positively aligned by the coaction of said keys and said key slots for selectively placing said conduit units in fluid communication with one another upon rotation of said valves.

2,663,316
FLUID PRESSURE CONTROL VALVE
George P. Dorscheid, Buffalo, N. Y., assignor to Frontier Industries, Inc., Buffalo, N. Y., a corporation of New York
Application December 14, 1949, Serial No. 132,941
9 Claims. (Cl. 137—632)



1. In a valve for metering predetermined volumes of air under pressure, a valve chamber, an inlet for air under pressure to said chamber, an outlet therefrom, a valve element seated in said chamber controlling the passage of air through said outlet, a plunger engageable with said valve element to move said valve element to an open position, a rocking member pivoted intermediate its ends and having operative engagement with said plunger at one of its ends, a cam lever mounted for pivotal movement about an axis coaxial with the axis of rocking movement of said rocking member, an engaging member having threaded engagement with said rocking member adjacent the end thereof opposite from said plunger, a reciprocable cam having operative engagement with said cam lever to pivot said cam lever and rocking member upon movement thereof and to move said valve element off its seat, and extensible means operatively connected with said engaging member to vary the position thereof with respect to said rocking member and the angular relationship between said rocking member and cam member and the length of stroke of said plunger and the resultant volume of air discharged by said valve and an operating member normally biased out of engagement with said extensible means manually operable to engage the same and operate said rocking member and valve element independently of said cam.

2,663,317
MIXING VALVE FAUCET
Ahmed M. El Shayeb, Cairo, Egypt
Application December 2, 1949, Serial No. 130,739
2 Claims. (Cl. 137—637.3)



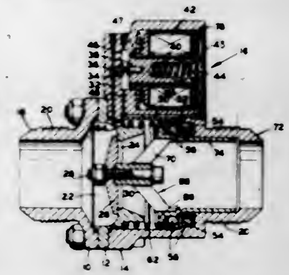
1. In a mixing faucet, a valve body having first and second ends and an axial bore extending through said ends, said bore tapering from said first end to said second end, said valve body being formed with fluid inlet passages disposed radially with respect to the axis of said bore and circumferentially spaced from each other, one of said inlet passages entering said bore at the larger end of the bore and another of said inlet passages entering said bore at a point intermediate the ends of the bore, closure means closing the larger end of said bore, said body being further formed with an outlet passage leading from said bore at a point substantially in alignment with said other inlet passages, a tubular rotatable outer valve plug having a tapered outer surface conforming to and engaging the tapered surface of said bore, said outer valve plug having a larger end in axially spaced relation to said closure means and having a smaller end projecting axially beyond said first end of the bore, the side wall of said outer plug being formed with a port of sufficient circumferential extent to be registrable with said outlet passage and with one of said inlet passages in different rotary positions of said outer valve plug, said outer plug having a closed position in which said port is out of registry with said inlet passage, said outer plug having an axial bore extending therethrough substantially conforming in taper to the bore of said valve body, an inner rotatable valve plug, the outer surface of said inner plug being tapered to conformably engage the bore of said outer plug, said inner plug having a larger end substantially flush with the larger end of the outer plug and a smaller end projecting axially beyond the smaller end of said outer plug, said inner plug being formed with an axial passage extending through its larger end and opening into the space in the valve body bore between the larger end of the outer plug and said closure means, one of said inlet passages communicating with said space, the axial passage of the inner plug terminating in a port opening through the side of the inner plug in a position to register with the other inlet passage in a rotated position of said inner plug, a first handle secured on the smaller end of the outer plug, and a second handle secured on the smaller end of the inner plug and overlying said first handle.

2,663,318
STEM-SEALED VALVE WITH MULTIPLE ACTUATING MEANS
Lauri A. Lakso, Leominster, Mass., assignor to General Electric Company, a corporation of New York
Application November 23, 1951, Serial No. 257,753
5 Claims. (Cl. 137—641)



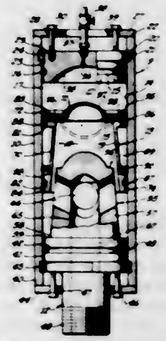
1. A valve for controlling fluids at high temperatures and comprising a housing containing a flow control member within said housing and carried on a reciprocable stem having an end portion projecting from said housing, said stem having an annular shoulder therearound adjacent said flow control member, said shoulder having an annular bevelled sealing surface adjacent said housing, motor means for positioning the stem, a rotatable actuating spindle in axial alignment but spaced from the stem, and means connecting the motor and spindle to the stem including a yoke connected to the motor and having a central thrust bearing rotatably receiving the actuating spindle, said spindle having a threaded end portion projecting from the yoke towards the stem, and means resiliently connecting the stem with said threaded spindle end portion including a pair of spaced cylindrical members in telescopic relation, spring means disposed between said members and biasing them longitudinally towards each other, one of said members being connected to the end of the valve stem and the other having a portion threadedly engaging the actuating spindle end portion, means for preventing relative rotation between said cylindrical members and the housing, and means for holding said yoke in an extreme position corresponding to open condition of the valve, whereby rotation of the actuating spindle when the valve is in closed condition will cause the spindle to move away from the cylindrical members carrying the yoke to the extreme position in which it is retained by said holding means, after which rotation of the actuating spindle in the opposite direction will pull said cylindrical members towards the yoke to move the stem in valve-opening direction and to hold said shoulder sealing surface in sealing engagement with said housing to prevent leakage along said stem.

2,663,319
SOLENOID OPERATED PILOT VALVE AND MAIN VALVE
Joseph Marinelli, Orange, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application May 11, 1949, Serial No. 92,543
3 Claims. (Cl. 137—657)



2. In combination a member providing a fluid inlet, an intermediate member containing a throat, and a main housing including a pilot chamber and a fluid outlet attached to said first member and intermediate member to form an aligned fluid passage, a piston assembly slideably guided within said outlet and extending into said intermediate member, a valve member at one end of said piston assembly to normally close said throat, spring means biasing said piston assembly and thereby said valve member to a closed position, a fluid passage from the inlet to said pilot chamber, a solenoid, a pin responsive to said solenoid, said pin arranged to close said passage to said pilot chamber, a second passage from said pilot chamber, an annular pressure chamber concentric about said piston assembly and including a wall formed by said piston, said pressure chamber open to said second passage, said solenoid upon operation unseating said pin and admitting fluid into said pressure chamber to actuate said piston assembly and open said throat, thereby permitting flow through said aligned fluid passage.

2,663,320
ACCUMULATOR
Robert E. Snyder, Pasadena, Calif., assignor, by mesne assignments, to Snyder Oil Tool Corporation, a corporation of California
Application November 18, 1946, Serial No. 710,490
14 Claims. (Cl. 138—31)



14. In a pneumatic hydraulic accumulator, the combination of: enclosure means forming a chamber; means for admitting gas to said cham-

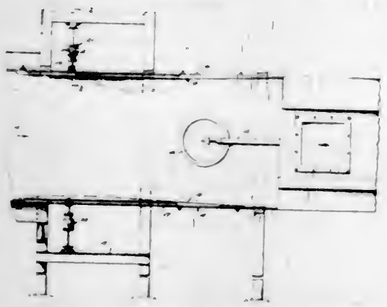
ber; means for admitting liquid under variable pressure to said chamber; and two differentially movable wall sections in said chamber dividing the same into gas and liquid compartments, said wall sections being differentially responsive to variations in the pressures of said gas and liquid, one of said wall sections being readily responsive to small pressure changes and the other wall section being responsive only to relatively larger pressure changes.

2,663,321
TUBULAR HEAT TRANSFER APPARATUS
Emil Jantsch, Youngstown, Ohio, assignor to O. F. Gayton, Youngstown, Ohio
Application July 19, 1947, Serial No. 762,134
2 Claims. (Cl. 138—38)



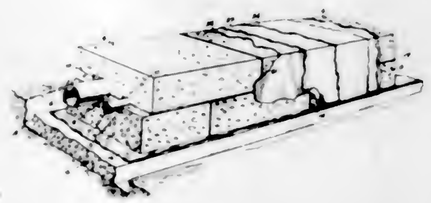
1. A heat transfer device comprising an elongated tubular member having a fluid impervious wall, the inner surface of said wall having longitudinally spaced polygonal cross sections with the tube at each side of the polygonal cross section being gradually sunken to form an undulating inner surface having a continuously changing shape with a uniform cross sectional area at right angles to the general longitudinal axis of the tube, said spaced polygonal sections being even-sided hexagons and the wall of the intermediate sunken portion of the tube having a hexagonal shape which is predominantly triangular in shape.

2,663,322
FLEXIBLE SUPERSONIC NOZZLE
Harry J. Allen, Palo Alto, and Robert N. Olson, Santa Clara, Calif.
Application February 6, 1950, Serial No. 142,686
3 Claims. (Cl. 138—45)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In combination with a fluid duct having opposed walls, an adjustable nozzle comprising a pair of flexible plates one mounted on each of said opposed walls, each of said plates having a thickened front and rear portion connected by an intermediate thin portion, the outer surface of each portion of each plate having a smooth outer contour throughout the length of each plate, means rigidly attaching one end of each plate to each of said walls, means movably attaching the other end of each plate to each of said walls, and means for applying a load at a transverse station on each of said plates at said intermediate portion to thereby vary the cross-sectional area of the nozzle at said station.

2,663,323
INSTALLATION OF UNDERGROUND TRANSMISSION PIPE
Lawrence E. Thomas, Seattle, Wash., assignor of thirty-three and one-third per cent to Clarence L. Ball and thirty-three and one-third per cent to Robert L. Morgan, both of Seattle, Wash.
Application February 5, 1952, Serial No. 269,957
10 Claims. (Cl. 138—48)



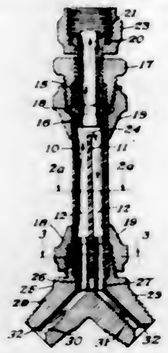
1. An underground pipe installation comprising a level bed surfaced with a coating of asphalt, a concrete body resting upon said bed and composed of two courses of concrete blocks bonded together and having the joints of the one course staggered relative to the joints of the other course, the meeting horizontal faces of said two courses of blocks being formed with registering grooves acting in complement to produce a longitudinally extending tunnel so spaced from all exposed surfaces of the double-coursed concrete body as to provide a major thickness of surrounding concrete on all sides of the tunnel, a fluid-carrying pipe received in said tunnel, and a waterproofing jacket completely covering the top and sides of said concrete body.

2,663,324
FLEXIBLE TUBING STRUCTURE AND METHOD OF MANUFACTURE
David Wendell Fentress, Barrington, Ill., assignor to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois
Application November 21, 1946, Serial No. 711,351
6 Claims. (Cl. 138—50)



2. A flexible tubing structure comprising a plurality of superposed laminations corrugated along predetermined portions of the lengths thereof, a weld extending longitudinally of innermost laminations to provide a fluid seal and being relatively narrow whereby to minimize resistance to flexing of the tubing, and additional welds of limited extent spaced longitudinally of the tubing for joining remaining laminations without substantial increase in resistance to flexing thereof.

2,663,325
MULTIPLE PASSAGE FLEXIBLE HOSE AND COUPLING THEREFOR
James A. Bede, Cleveland, Ohio
Application September 9, 1950, Serial No. 184,096
9 Claims. (Cl. 138—87)

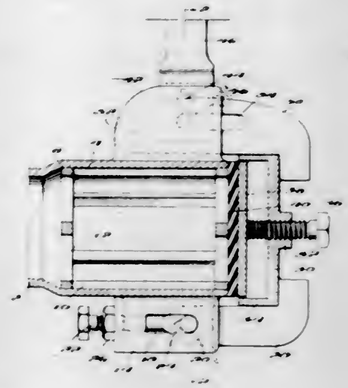


1. In combination, a flexible hose formed with partition means dividing said hose into at least two longitudinally extending passages, at least a portion of such partition means terminating short of one end of said hose, and a coupling connected to each end of said hose, the coupling at such one end of said hose being formed with a tubular nipple of cross-section complementary with that of the end of said hose beyond the terminating portion of such partition means and extending into such one end, and the coupling at the other end of said hose being formed with a plurality of tubular nipples of cross-section complementary with those of the respective passages and inserted into such other end of said hose.

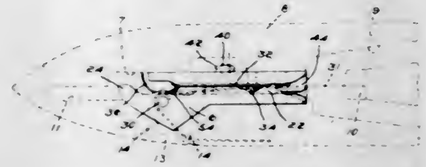
4. A coupling for flexible hose of circular cross-section having partition means dividing such hose into longitudinally extending passages of segmental cross-section, comprising a body formed with a plurality of tubular nipples extending therefrom, said nipples being of segmental cross-section and spaced apart and adapted to be inserted into the passages of such hose to embrace the opposite sides of such partition means.

2,663,326
END CLOSURE FOR PUP JOINTS USED IN COATING THE INTERIOR OF PIPE LINES
Arvel C. Curtis, Odessa, Tex., assignor to Pipelife, Inc., a corporation of Texas
Application January 22, 1953, Serial No. 332,741
3 Claims. (Cl. 138—89)

3. A closure for a pup joint having an open end comprising a bracket mounted on the outside of the joint at the bottom thereof, a pivot carried by said bracket, an angle member mounted on said pivot and having a part extending upward partly across the open end, a main closure member including a body portion secured to said upwardly extending part and a flange directed towards the open end of the pup joint, the inside diameter of the flange being equal to the outside diameter of such open end, a sealing plate within the flange engaging such open end, a bolt threaded in the body portion of the main closure member engaging such plate, a second bracket mounted on the outside of the pup joint at the top thereof, a hook pivoted in said bracket and adapted to engage over said main closure member when the same is in closed position, a lever pivoted in said bracket at a point higher and closer to the open end than the pivot of the hook, the pivots of both the lever and the hook lying inwardly of the open end of the pipe, said hook having a slot therein, and a pin carried by the lever below its pivot engaging in said slot, whereby movement of the end of the lever above its pivot away from the open end raises the hook to release the closure member.



2,663,327
SHUTTLE EYE ASSEMBLY
Raymond J. Carrigan, Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., Thompsonville, Conn., a corporation of Delaware
Application December 29, 1951, Serial No. 264,019
9 Claims. (Cl. 139—223)

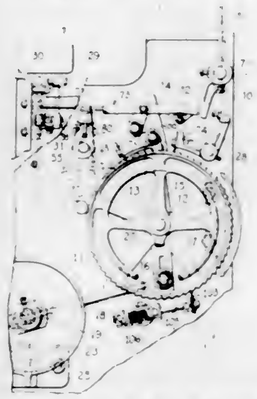


2. A self-threading thread tensioning shuttle eye assembly which comprises a body member having a thread receiving slot along its length including side walls, and a bottom thread guiding surface, an eye threading surface formed in one of said side walls inclined rearwardly and downwardly toward the bottom of said slot, an undercut thread guiding surface forming a continuation of said threading surface lying substantially in the same plane with the bottom of the slot, a cylindrically turned guide surface forming a portion of the side wall having said threading and undercut surfaces with its axis depthwise of the slot adjacent said undercut surface and extending from above below the bottom surface of the slot for guiding thread from the slot transversely under said undercut surface, a thread tensioning element having a position of line contact with said cylindrically turned surface along the axis thereof within the slot from above substantially below the level of the slot, said body member having below the level of the slot and laterally of said cylindrically turned surface a rearwardly and downwardly inclined thread engaging surface for engagement with the severed end of a thread drawn rearwardly through said eye assembly to disengage said thread beneath the tensioning element.

2,663,328
KNOCKOFF AND LETBACK MEANS FOR LOOMS

Walter J. Budzyna, East Douglas, and Waldo H. Banks, Hopedale, Mass., assignors to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application June 30, 1951, Serial No. 234,564
14 Claims. (Cl. 139—313)

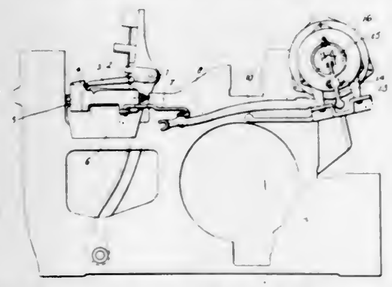


1. In a loom having a lay, a knockoff mechanism including in combination a moving actuator carried by said lay and having a pathway which varies in accordance with the condition of a pick of filling laid by said loom, knockoff means and means for interconnecting said actuator and knockoff means to impart movement of the former to the latter to stop the loom upon filling failure which comprises an oscillatable shaft, an arm at one end of said shaft normally out of line with said moving actuator as it moves with said lay when filling is normally present, but positioned to be engaged thereby upon failure of filling at any pick, a latch means for said arm for retaining it in an extreme position when moved upon engagement by said actuator, a second arm on said shaft and means carried thereby and guided for contact with said knockoff means for moving the latter to a position to cause stopping of the loom upon movement of the first arm to a latched position.

2,663,329
TIME-ADVANCED ACTUATING DEVICE FOR WEAVING LOOM STOP-MOTIONS

Jaime Picanol, Zandberg, Zillebeke-lez-Ypres, Belgium

Application September 27, 1951, Serial No. 248,614
5 Claims. (Cl. 139—345)

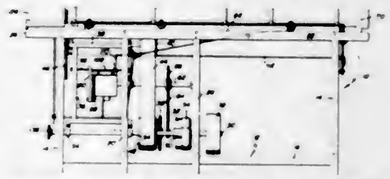


1. In a weaving loom having a driving motor, a clutch mechanism associated with said motor, a batten and a buffer displaceable under the action of said batten, means for causing said clutch mechanism to take a declutched position, operable by said buffer upon an initial small displacement of the latter, comprising mechanical linkages connecting said buffer to said clutch mechanism whereby said motor will be declutched before said loom has actually stopped, said mechanical linkages including a rocker beam pivoted on the loom frame, a rod pivoted directly to the buffer at one end, a lever pivoted to one arm of said rocker beam, said rod pivoted at its other end to the free end of said lever, and a stationary member mounted on the loom and abutting the free end of said lever.

2,663,330
AUTOMATIC INTERMITTENT FEED-AND-CUT CORDWOOD SAW

Elvin Hill, Andersonville, Tenn., assignor of twenty per cent to J. Howard Collett, Maynardville, Tenn., and five per cent to Hal T. Spoden, Knoxville, Tenn.

Application August 30, 1950, Serial No. 182,228
6 Claims. (Cl. 143—46)



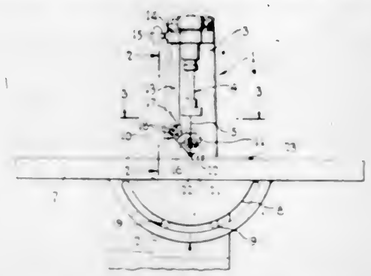
1. In a cordwood sawing machine, a base, a wood delivery chute mounted on said base and a power-driven saw, a saw frame, said saw frame being mounted for to and fro movement transverse to the chute, means for periodically urging movement of wood in the chute towards the saw comprising a carriage associated with the chute, said carriage being movable vertically to engage wood in the chute when in its elevated position, said carriage also being movable longitudinally of the chute, a shaft rotatably mounted on said base, means operatively connecting the shaft to the saw frame to move the saw, cam driven links operatively connecting the shaft to the carriage to elevate the latter during backward movement of the saw frame, a flexible member operatively connecting the saw frame and the carriage to move the carriage towards the saw while said carriage is in elevated position, a chute dump pivoted to the base adjacent said saw, said dump being pivoted about a horizontal axis parallel to the path of movement of the saw and crank means operatively connecting said shaft to the chute dump to move the latter about said axis.

2,663,331
HOLD-DOWN FOR JIG SAWS OR THE LIKE

Harry D. Herder, Kalamazoo, Mich., assignor to Atlas Press Company, Kalamazoo, Mich., a corporation of Michigan

Application April 23, 1949, Serial No. 89,188
5 Claims. (Cl. 143—157)

1. In a jig saw or the like having a vertically-operating tool and a table tiltable about an axis lying in the work plane of said tool and a vertically adjustable work-hold-down comprising a downwardly projecting plate having its lower portion located substantially at the work plane of the tool and recessed to provide tool clearance and terminating at both sides of the saw in work contacting bearing members disposed to engage a work-piece on the table only on a line extending in the direction of said work plane, said bear-

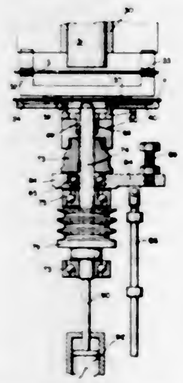


ing members comprising semi-spherical domes extending below said plate, said plate being disposed at an angle to clear said work-piece at various tilted positions of said table.

2,663,332
VENEER SHEET PATCHING MACHINE

Roy V. Peterson, Tacoma, Wash.

Application December 26, 1950, Serial No. 202,603
5 Claims. (Cl. 144—2)



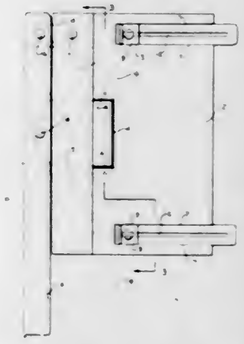
5. In a veneer patching machine, a cutting assembly, comprising: a cutter head having on one end and evenly spaced from the center of said cutter head a plurality of pivots; a cutter mounted on each of said pivots, said cutter having a heavy end on one side of its pivot whereby said heavy end will tend to swing outward when said cutter head is rotated, means for pivoting said heavy end inward, stop means for limiting outward movement of said heavy end, and two cutting edges on said heavy end, one of said cutting edges being disposed, when said heavy end is in its inward position, to cut a patching opening of the same size as the patch which the other cutting edge is positioned to cut when said heavy end is in an outward position.

2,663,333
HINGE SEAT MORTISING JIG

Tanner H. Brown, Monterey, Calif.

Application August 21, 1951, Serial No. 242,840
2 Claims. (Cl. 144—27)

1. A jig for mortising a door edge or the like comprising a bar having an inner edge adapted for placing against the side of the door, a flat flange projecting from the inner edge of the bar across the door edge and adapted to lie flat against the latter and made to project beyond the door edge, means on the projecting portion of the flange for bearing on the opposite side of the door edge, the flange having fixed blades projecting toward the door edge to define a rectangular mortise area adjacent the bar and to cut the edges of the mortise when hammered into the door, a bottom cutting blade re-

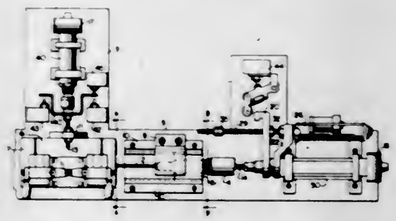


tractable in the bar in the plane of the extremities of the edge cutting blades, and means for driving the bottom cutting blade into the door for cutting the bottom of the mortise, the latter means comprising a straight handle disposed upon the outer edge of the bar and normally lying adjacent thereto, a link connection between corresponding ends of the handle and the bar, and a pivotal connection between the handle and the bottom cutting blade.

2,663,334
AUTOMATIC SCREW DRIVING MACHINE

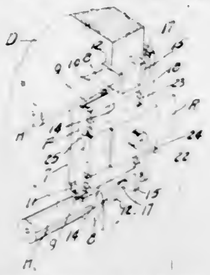
Jack R. Tinsman, Park Ridge, Richard J. Novy, Chicago, and Richard O. Pence, Wilmette, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application September 8, 1951, Serial No. 245,714
7 Claims. (Cl. 144—32)



1. An automatic screw driving machine including means for holding a workpiece, a plurality of power driven screwdrivers, means for advancing said screwdrivers to the workpiece, means for causing said screwdrivers to drive screws into a workpiece held in said holding means, means for retracting said screwdrivers, means for indexing said holding means and thereby aligning other screws with said screwdrivers, means for readvancing said screwdrivers to the workpiece and driving said other screws, means for retracting said screwdrivers again, and means for then retracting said holding means and stopping the machine.

2,663,335
PORTABLE ROUTER-TYPE MORTISING DEVICE
William H. Gohm, Sr., Saginaw, Mich.
Application April 10, 1950, Serial No. 155,014
4 Claims. (Cl. 144—70)



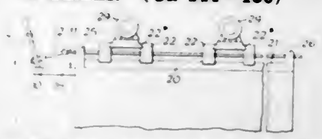
4. A mortising device for doors and the like for clamping over the edge surface to be mortised comprising a base plate disposed in parallel relation with said edge surface, means for clamping said base plate to said edge surface, a transversely disposed, raised, open frame on said plate overlying the edge surface to be mortised, said frame having transversely spaced apart, parallel walls disposed perpendicularly with relation to said base, said walls being longitudinally toothed, a transversely disposed router plate having a guide rib on the under face thereof guiding between corresponding teeth on said spaced apart walls of said frame to be movable transversely across the edge surface of said door, and a router bit journaled in said router plate and extending therethrough to progressively cut out said mortise as said router plate is moved transversely across said edge surface and then successively lifted clear of said frame and repositioned between a different set of corresponding teeth.

2,663,336
ATTACHMENT FOR THE HANDLE OF DRIVEN TOOL-EQUIPPED FLEXIBLE SHAFTS
Paul A. Sigvathsen, Minneapolis, Minn.
Application October 23, 1950, Serial No. 191,540
3 Claims. (Cl. 144—134)



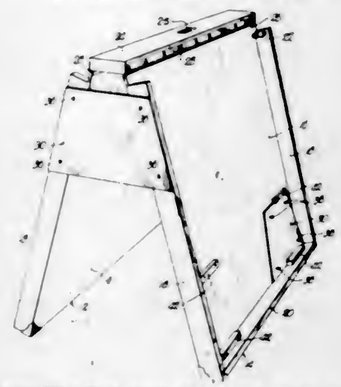
1. A tool for removing old putty from a window sash including a handle-equipped rectangular elongated base having a smooth flat bottom, means mounted on the base at one end thereof for vertical adjustment and having a driven member for holding a tool, and a round tool of a constant diameter held by the driven member with its longitudinal axis perpendicular to the bottom of the base, said tool having a spiral cutting edge, the lower end of the tool being flat and perpendicular to said axis.

2,663,337
SLOT CUTTING MACHINE WITH ADJUSTABLE STROKE
Gaston Borel, Port-de-Bouc, France
Application December 6, 1951, Serial No. 260,282
Claims priority, application France
January 29, 1951
3 Claims. (Cl. 144—136)



1. In a multiple rotary cutter wood slotting machine, of the kind wherein the cutters are movable longitudinally of the wood stock to form longitudinal slots therein, means for coupling a number of cutters together for simultaneous longitudinal movement, by hand, the total amplitude of movement by each cutter being variable within limits and variable with respect to the amplitude of movement of each of the other cutters, comprising a plate provided with a series of parallel guides, pivoted to a fixed part of the slotting machine and rotatable about an axis lying in a plane parallel to that of the wood stock and at right angles to the longitudinal axis of the slots to be cut, the guides of the plate being at right angles to the axis of rotation of the plate, anchor members engaged one with each guide of the plate and adjustable and securable in a desired position along the length of the respective guide so as to permit variation of the length of arc traversed by each anchor member as the plate is rotated, and connection links coupled one between each anchor member and one of the cutters, whereby when the plate is moved through a portion of a revolution the respective cutters are moved longitudinally of the wood stock for a distance determined by the relative positioning of the corresponding anchor member on its guide of the plate.

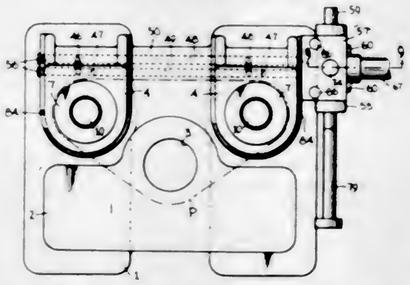
2,663,338
COMBINATION TOOL CASE AND SAWHORSE
Robert B. Fray, Mission, Kans.
Application July 16, 1951, Serial No. 237,040
2 Claims. (Cl. 144—285)



1. A combination tool case and sawhorse comprising a pair of complementary, shallow, tool-

receiving case sections adapted for disposition in edge-to-edge interengagement; an elongated member common to the sections and forming one end wall thereof, said member having an inner and an outer flat surface when the case sections are closed; hinge means for each section respectively and joining the same to said member; and releasable means joining the sections for holding the same in a position diverging downwardly from said member when the sections are swung apart on said hinge means away from said edge-to-edge interengagement and when said inner surface of the member faces upwardly.

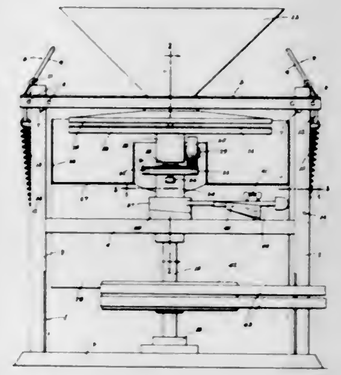
2,663,339
FLUID OPERATED CLAMPING DEVICE WITH LUBRICANT ATOMIZING MEANS
Joseph Verderber, Cleveland, Ohio, assignor to The Cleveland Universal Jig Company, Cleveland, Ohio, a corporation of Ohio
Application May 17, 1950, Serial No. 162,557
3 Claims. (Cl. 144—290)



1. A fluid operated clamping device comprising an article-supporting base, a hollow standard formed integrally with said base and projecting therefrom, a cylinder slidably mounted in said standard for reciprocable movement therein, an article-clamping member secured to said cylinder for movement therewith, a cap secured to said base in sealing engagement with one end of said standard, a piston fixedly secured to said cap and projecting upwardly into said cylinder to define two chambers therein, said piston being provided with a port communicating with one of said chambers and a second port communicating with the other of said chambers, separate fluid passageways in said cap communicating with said ports, separate fluid passageways in said base communicating with said passageways in said cap, and valve means secured to said base exteriorly thereof for selectively directing fluid under pressure into one or the other of said passageways in said base, whereby said clamping member is caused to move relatively to said base.

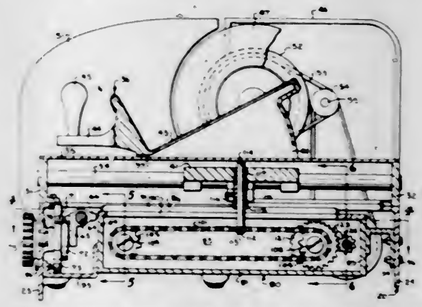
2,663,340
NUT HULLER AND SHELLER
Alfred D. Goodwin, Manteca, Calif., assignor to A. D. Goodwin & Son, Manteca, Calif., a partnership
Application January 8, 1952, Serial No. 265,439
9 Claims. (Cl. 146—11)

1. A nut cracking machine comprising an upstanding frame including a top cross bar, a pair of vertical-axis cracking discs alined in adjacent but spaced relation, said discs being below the top cross bar and the upper disc being fixed thereto, said upper disc having a central opening, a hopper positioned to feed nuts through said opening onto the lower disc, means mounting the lower disc in connection with the frame for rotation and axial adjustment, power means to rotate the lower disc, means to axially adjust the lower disc, and means between the frame and



the lower disc and included in part with said last named means responsive to rotation of the lower disc operative to cause the latter to recurringly pulse axially to the same extent irrespective and independent of the axial adjustment of said disc.

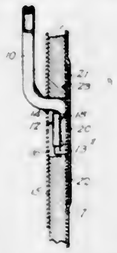
2,663,341
DRIVING MEANS FOR SLICING MACHINES
Harold C. Grove, Charlotte, N. C.
Application January 5, 1953, Serial No. 329,879
9 Claims. (Cl. 146—102)



1. In a slicing machine having a frame, an article carriage for material to be sliced reciprocally mounted on said frame and a driven rotary cutter blade disposed adjacent the carriage; the combination of improved means for imparting reciprocatory movement to said article carriage comprising a pair of closely spaced parallel endless belts spaced beneath, and extending in substantially parallel relation to, the path of movement of the article carriage, a pivot shaft supported at opposite ends thereof in adjacent reaches of said pair of endless belts and spanning the distance therebetween, a carriage propelling shaft pivotally mounted adjacent its lower end on said pivot shaft, means carried by said article carriage for slidably guiding the upper portion of said propelling shaft, and a driving connection between the rotary cutter blade and said endless belts for imparting movement to the endless belts whereby said propelling shaft will move the article carriage in one direction when moving with the upper reaches of said endless

belts and will move the carriage in the opposite direction when moving with the lower reaches of said endless belts.

2,663,342
HANDLE END HOLDER AND INSTALLATION
Daniel I. Reiter, New York, N. Y.
Application May 6, 1952, Serial No. 286,264
5 Claims. (Cl. 150—12)



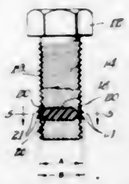
1. A pocket book handle installation comprising a handle having a flexible end strap portion, a rigid wall constituting the side wall of a pocket book, said wall comprising a relatively rigid member having an aperture therethrough, an inner imperforate lining for the member and an outer covering sheet for the outer surface of the member, said covering sheet having a slot of less area than the aperture formed therein in registration with a portion of the aperture, and a one-piece anchor of thin sheet metal for the end portion of the handle, said end portion passing through the slot and into the aperture, said anchor comprising a flat head bridging the innermost part of the aperture, a pair of side arms one extending outwardly from a part of one side edge of the head intermediate the ends of the head and the other extending outwardly from a corresponding part of the opposite side edge of the head, each of the arms being bent about the end portion of the handle toward the other arm and projecting from the head a distance less than the thickness of the rigid member and arranged and fitted entirely within the aperture, the outer surface of the head being normally in contact with the inner surface of the rigid member, the lining covering the inner surface of the head to form a substantially smooth surface on the inner face of the wall.

2,663,343
HANDBAG
Sidney Hyman, New York, N. Y.
Application March 16, 1953, Serial No. 342,424
7 Claims. (Cl. 150—28)



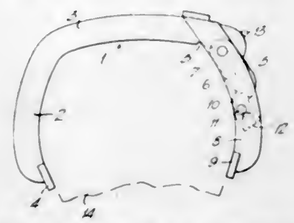
1. In a handbag, a stiff perimetral shell having open upper and lower ends, a stiff bottom plate, a flexible binding secured to the shell at its lower end, and a flexible upwardly disposed edging roll secured to the shell and spaced from the binding a distance slightly greater than the thickness of the bottom plate to hold the plate in the shell after it has been inserted through the lower end of the shell into the shell between the binding and the edging roll, said edging roll being a fibrous cord covered by and secured in a strip of folded flexible material and another strip of flexible material folded over said edging roll with edges secured together beneath the roll.

2,663,344
ELASTIC LOCKING INSERT SECURED BY THREAD ROLLING
Hugh T. Burdick, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application July 2, 1952, Serial No. 296,785
4 Claims. (Cl. 151—7)



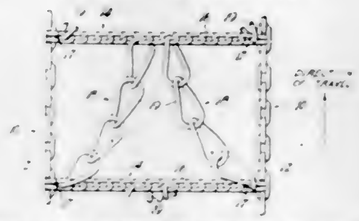
1. A self-locking rotary fastener including an elongated shank having rolled screw threads on a peripheral surface thereof, said shank having a recess therein opening at said peripheral surface so as to intersect thread convolutions on said shank, and an insert of deformable material mounted within said recess and presenting an exposed locking section for lockingly engaging complementary thread convolutions, said locking section comprising pre-formed impressed thread segments, each locking portion of which normally extends radially outwardly with respect to corresponding portions of the adjacent screw thread convolutions and providing helical continuations of said convolutions, and means for securing said insert against dislodgment from said recess comprising material of the shank periphery defining the entire mouth of the recess converging to restrict the size of said opening, said material resulting from thread rolling and impingingly encircling the periphery of said insert.

2,663,345
ANTISKID DEVICE
Olof Cardell, Sollentuna, Sweden
Application July 19, 1951, Serial No. 237,518
7 Claims. (Cl. 152—225)



1. An anti-skid device for mounting on a tire, comprising a first, substantially L-shaped member, composed of two legs, one of which legs is adapted to be placed against one side of a tire, a second member supported by said first member adjacent the free end of the other leg thereof and adjustable into different positions along said other leg toward and away from said one leg, said second member engaging said other leg in such a manner that said second member in each adjusted position is locked against rotation away from said one leg, a third member pivoted to said second member, and a tightening means operating between said second and third members for rotating said third member relatively to said second member toward said one leg of said first member for pressing said third member against the other side of said tire.

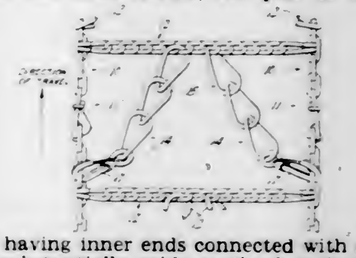
2,663,346
TRACTION CHAIN
William H. Devonshire, Williamsville, N. Y., assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y.
Application October 26, 1949, Serial No. 123,773
1 Claim. (Cl. 152—239)



A tire chain assembly adapted to be detachably mounted about a vehicle tire circumferentially thereof and comprising a pair of side chains of a length adapting them to extend entirely about the circumference of the tire at opposite sides thereof when the chain assembly is applied to the tire in position for use, cross chains extending between said side chains and spaced from each other longitudinally thereof and at their ends being connected with links of the side chains, said cross chains being all of the same length and each of such length that it extends across the tread portion of a tire in taut condition when the chain assembly is applied to a tire of predetermined diameter, and pairs of traction chains extending diagonally in spaces between the cross chains, each traction chain consisting of interconnected links larger than the links of the cross chains, the traction chains of each pair having inner ends connected with a cross chain substantially midway the length thereof and extending therefrom in diverging relation to each other towards the side chains and having outer ends connected with opposite ends of the next cross chain, said traction chains all diverging circumferentially of the tire in the same direction and being all of such length that when the chain assembly is applied to a tire the traction chains extend loosely across the tread portion of the tire.

2,663,347
TRACTION CHAIN AND COUPLING
Charles J. Manney, Kenmore, and William H. Devonshire, Williamsville, N. Y., assignors to Columbus McKinnon Chain Corporation, Tonawanda, N. Y.
Application October 26, 1949, Serial No. 123,774
1 Claim. (Cl. 152—239)

A tire chain assembly comprising a pair of side chains each having opposite ends detachably connected with each other by a fastener carried by one end of the said chain and detachably engaged with its other end and thus forming a continuous side chain extending entirely about the circumference of a side portion of a tire when the chain assembly is applied thereto in position for use, cross chains extending between said side chains and spaced longitudinally thereof, opposite ends of each cross chain being connected with links of the side chains, said cross chains being all of the same length and each of such length that it extends across the tread portion of a tire in taut condition when the chain assembly is applied to a tire of predetermined diameter, and pairs of traction chains extending diagonally in spaces between the cross chains, one pair of traction



chains having inner ends connected with a cross chain substantially midway the length thereof and extending therefrom in diverging relation to each other towards the side chains and having outer ends detachably connected with selected links of the said side chains near the next cross chain, said traction chains consisting of links larger than the links of the cross chains, and said traction chains all diverging circumferentially of the tire in the same direction and being all of such length that when the chain assembly is applied to a tire the traction chains extend loosely across the tread portion of the tire.

2,663,348
TIRE INFLATOR
Clayton Farris, East Orange, N. J., assignor to The Trucktor Corporation, Westfield, N. J., a corporation of Delaware
Application September 16, 1949, Serial No. 116,076
1 Claim. (Cl. 152—415)



A device for inflating an under inflated tire on a vehicle with air from a spare vehicle tire comprising an air hose, a clip on air chuck on one end of said hose having means for fixing it to the valve stem of said spare tire, another air chuck at the other end of the hose for introducing air into the under inflated tire, a manually operated air valve in said hose adjacent to said another air chuck for admitting air to said under inflated tire, and a pressure gauge connected to said hose between said air valve and said another air chuck.

2,663,349
MEANS FOR CONSTRUCTING PRINTING PLATES
Alexander J. Albrecht, West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application July 1, 1949, Serial No. 102,683
3 Claims. (Cl. 153—46)

1. Apparatus for forming a composite printing plate including a dummy of steel or the like rigid

material and a thin magnesium printing plate carried thereon, comprising a semi-cylindrical saddle for receiving a dummy, clamping mechanism at each side of the saddle for holding an edge of the plate against a dummy held against the saddle, means on each side of the saddle for wiping the edge of the plate around the edge of the dummy to attach it thereto and comprising a member mounted for frictionally slidable engagement with the outer surface of the

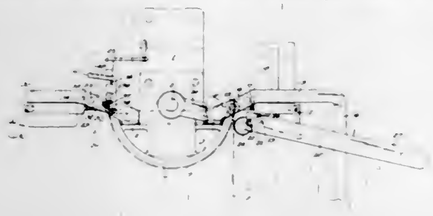


plate and means for moving the said member so as to follow the contour of the edge of the dummy for pressing the plate against and wrapping it around the same, a roller operable to wrap a plate held by one of the said clamping means around the dummy preliminary to clamping its other edge to the dummy, means rotatively supporting the roller, and means pivotally mounting the last said means on the saddle for rotative movement about the saddle axis.

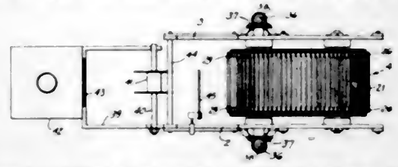
2,663,350
HEAT AND PRESSURE ELEMENT FOR WELDING THERMOPLASTIC FILMS
Edward V. Dettmer, Bay City, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application January 2, 1952, Serial No. 264,615
3 Claims. (Cl. 154—1)



1. In an apparatus for heat welding plural thicknesses of organic thermoplastic film, a heating element comprising a metallic body of high heat capacity; means for heating said body to a film welding temperature; a woven wire screen attached to and constituting the working face of said body, the warp wires of which constitute most of the exposed surface of the screen; channels through said body communicating with said screen; and means for supplying a liquid lubricant through said channels to the screen.

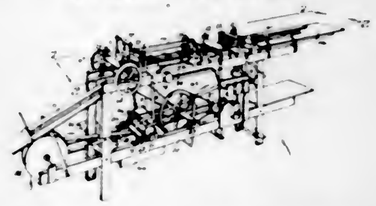
2,663,351
CORRUGATING MACHINE
Russell E. Osborne and Stanley H. Moyer, Mill Valley, Calif.
Application October 23, 1951, Serial No. 252,652
13 Claims. (Cl. 154—30)

1. In a corrugating machine, a pair of endless conveyors, each comprising a pair of spaced chains and spaced rods connecting the same, and means engaging the chains for mounting the conveyors to present confronting sections, the rods being mounted with respect to the chains to interlace at the confronting sections, and the said means at opposite sides being offset longitudinally with respect to one another to cause the rods to



assume oblique positions with respect to the length of the conveyors.

2,663,352
EDGE TRIMMING MACHINE
Harry Keller, Philadelphia, Pa.
Application October 19, 1951, Serial No. 252,030
10 Claims. (Cl. 154—41)

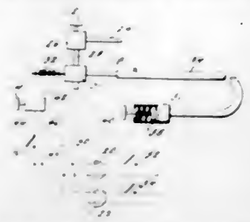


1. In a machine for edging cardboard strips with a binding tape, said machine comprising a supporting frame structure, means on said frame structure for feeding a continuous strip of said binding tape along a predetermined path in one direction at a predetermined rate, and means on said frame for successively feeding said cardboard strips into the path of said tape at said predetermined rate and positioning said cardboard strips along said tape in predetermined spaced relation to one another for movement therewith in the same direction, said last mentioned means comprising a pair of roller elements carried by said frame structure and mounted for rotation about parallel axes in opposite directions for engaging the oppositely facing surfaces of a portion of said cardboard strips to feed said cardboard strips therethrough, and a separator element extending generally radially from the axis of one of said roller elements and beyond the periphery thereof, said separator element being positionable between the opposed end portions of successive leading and trailing cardboard strips, and said separator element being mounted for rotation with the associated one of said roller elements through frictional contact therewith, being thus rotated from said position between the opposed end portions of said leading and trailing cardboard strips to a position wherein said separator element rests upon an intermediate portion of said trailing cardboard strip whereby said separator element is restrained from further rotation with said associated roller element and held in readiness to follow said trailing cardboard strip when released from said restraint for separating the latter from the next succeeding cardboard strip, and means for cutting said tape between said cardboard strips.

2,663,353
HEAT SEALER
Howard A. Rohdin, Glen Ridge, N. J.
Application May 1, 1952, Serial No. 285,490
7 Claims. (Cl. 154—42)

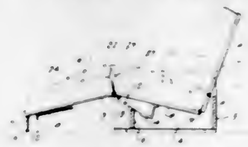
1. In combination: a pair of jaws and means for heating at least one of them; fluid pressure

means for pressing said jaws together; a fluid pressure line; a valve for connecting said fluid pressure means to said line, said valve being normally biased to disconnecting position; a solenoid



for shifting said valve to connecting position; a switch for energizing said solenoid and a timer in circuit with said switch and said solenoid for deenergizing said solenoid after lapse of a predetermined time.

2,663,354
CHAIR BED
Joseph D. Bell, San Francisco, Calif.; Pearl B. Bell, administratrix of Joseph D. Bell, deceased
Application October 31, 1950, Serial No. 193,252
1 Claim. (Cl. 155—49)



In an extension chair, a main frame, a mattress unit having a back section and a seat section and a hinge connecting the same, means for supporting the mattress unit in the main frame with the back section in upright position and with the seat section in inclined position and with the front edge of the seat section higher than the rear edge thereof, and an extension panel having its rear edge hinged to the front edge of the seat, the panel having a leg for the front thereof and dimensioned to support the front edge substantially at the elevation of the rear edge of the seat section to provide a knee-supporting peak at the hinged connection between the seat section and the extension panel, the supporting means for the mattress including means operable for moving the seat and back sections into horizontal alinement, and the extension panel having a second leg swingable on the front portion thereof and dimensioned to raise the front edge of the panel to the height of the alined mattress unit when the leg is swung into vertical position.

2,663,355
SEAT SUPPORT
Herman L. Harms, South St. Paul, Minn.
Application September 20, 1947, Serial No. 775,245
2 Claims. (Cl. 155—51)

2. A seat support comprising a substantially vertical fixed elongated member, upper and lower elongated members one above the other, first pivot means pivotally connecting the upper member to said fixed member, second pivot means pivotally connecting the lower member to said fixed member, another substantially vertical elongated member spaced from said fixed member, third pivot means pivotally connecting the upper member to said other substantially vertical member, fourth pivot means pivotally connecting said lower member to said other vertical member, the portions of said four elongated members lying between said pivots defining a



parallelogram, and resilient means extending diagonally across the parallelogram and anchored to said upper and lower elongated members at points spaced from said first and fourth pivot means.

2,663,356
ARTICLE OF REPOSE FOR SUPPORTING THE BODY OF A PERSON
Anton Lorenz, Buffalo, N. Y.
Application September 29, 1949, Serial No. 118,599
18 Claims. (Cl. 155—105)

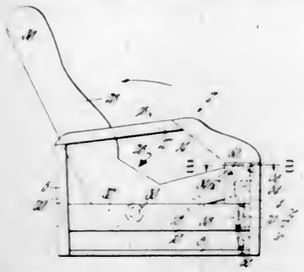


1. An article of repose for supporting the body of a person comprising: a support, a seat-section, said seat-section including a rockable seat-portion pivoted at its rear end to said support, an extension rigid with said rockable seat-portion, said extension projecting backwardly beyond the pivotal connection between said rockable seat-portion and said support, a back-supporting member swingably mounted on said support at a point spaced from said pivotal connection between said rockable seat-portion and said support, and a connecting link pivoted at one of its end portions to said back-supporting member and at its other end portion to said extension of said rockable seat-portion.

2,663,357
RECLINING CHAIR
Adelard J. Belisle, South Hadley Falls, Mass., assignor to The Berkline Corporation, Chicopee Falls, Mass., a corporation of Tennessee
Application April 23, 1952, Serial No. 283,811
5 Claims. (Cl. 155—105)

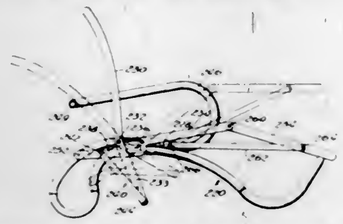
1. A chair construction of the reclining type comprising in combination, transversely spaced secured together side frames, a combined seat and back pivoted between said side frames for swinging movements between forward upright sitting and rear reclining positions of an occupant of the chair, a leg rest, and means for moving said leg rest between a substantially vertical position below the forward portion of the seat in sitting position thereof and an elevated and extended substantially horizontal position in

reclining position of said seat, said means including members pivotally connected to the forward end of said seat, slidable connections be-



tween said leg rest and members and link connections between forward portions of said frame, said leg rest and said members.

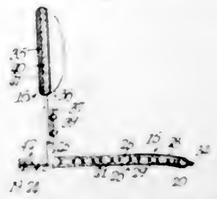
2,663,358
ARTICLE OF REPOSE FOR SUPPORTING THE BODY OF A PERSON
Anton Lorenz, Buffalo, N. Y.
Application November 19, 1949, Serial No. 128,285
4 Claims. (Cl. 155—106)



1. An article of repose for supporting the body of a person, comprising in combination: a support, a seat pivotally connected with said support, a first extension rigid with said seat, a back-rest swingably mounted on said support at a point spaced from said pivotal connection of said seat with the support, said first extension projecting backwardly beyond the pivotal connection between said back-rest and said support, a second extension rigid with said back-rest and extending beyond the pivotal connection of the latter with the support, and a connecting link pivoted at one of its end portions to said first extension at a point spaced from the pivotal connection between said seat and the support and at its other end portion to said second extension at a point spaced from the pivotal connection between said back-rest and the support.

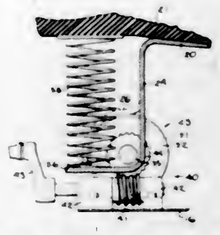
2,663,359
AUXILIARY SEAT FOR AUTOMOBILES AND THE LIKE
Glenn D. Wood, Elkhart, Ind., assignor to Posture Research Institute, Inc., Elkhart, Ind., a corporation of Indiana
Application August 24, 1951, Serial No. 243,405
1 Claim. (Cl. 155—131)

An auxiliary seat for use in conjunction with an automobile seat and the like embodying therein means providing a seat member having a relatively rigid peripheral portion, laterally spaced uprights at the rear of said seat portion, inwardly of and supported by a part of said rigid peripheral portion and defining a margin rearwardly of said uprights for insertion in the seam between the bottom of the back cushion and the rear of the seat cushion of an automobile, and a back rest supported by said uprights and adapted for engagement against said back cushion when said margin of the seat member is disposed in said seam, and an envelope-like member enclosing



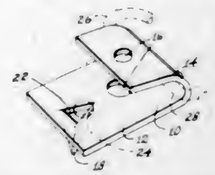
said seat member and including top and bottom coverings, one of which is provided in one margin with recesses to accommodate said uprights, with flaps between and at each side of said recess adapted for detachable connection with the associated margin of the other covering.

2,663,360
SEAT
Edward W. Ory, Chicago, Ill., assignor to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware
Application May 3, 1951, Serial No. 224,361
1 Claim. (Cl. 155—179)



A seat comprising, in combination, a fixed frame, a torsio-elastic device supported on said fixed frame adjacent the front edge thereof, a seat frame having a depending skirt portion along its front edge fixed to said device to support said seat frame in spaced relation above said fixed frame, the free edge of said skirt portion projecting outwardly to define a ledge, a resilient filler supported on top of said seat frame and having a portion projecting beyond the front edge thereof, and a row of vertically disposed coil springs fixed to said ledge and supporting the projecting portion of said filler to provide the seat with a soft front edge.

2,663,361
DEVICE FOR ANCHORING SPRINGS
Milton Diamond, Trenton, N. J.
Application October 13, 1952, Serial No. 314,430
1 Claim. (Cl. 155—179)



A metal U-shaped clip of uniform width for attachment to a non-metallic frame, said clip

including a base having at one end an upwardly bent portion overlapping said base and providing a space arranged to receive an end portion of an elongated spring, said base having a portion extending outwardly from said overlapped portion and provided with a struck out depending prong and forming an opening for receiving a retaining member, said prong being adapted to be initially embedded into said frame and said opening adapted to receive a retaining member for permanently securing the clip to said frame, said overlapped portion and said base having vertically aligned openings in the same vertical plane with said prong for receiving an auxiliary retaining member arranged to be embedded in the frame and which coacts with said prong and said first mentioned retaining member for firmly connecting the clip to said frame.

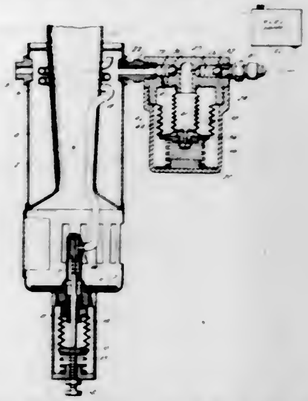
2,663,362
HEATER FOR SUPPLYING HOT GASES
Talient H. Ransome, Oakland, Calif.
Application July 16, 1951, Serial No. 237,009
2 Claims. (Cl. 158—7)



1. In a heater of the character described an elongated cylindrical shell, a head at each end forming a closure therefor, a Venturi type gas burner having its discharge end extending through one head, a discharge flue extending through the other head said flue extending through the length of the shell and terminating in front of the discharge of the burner but being spaced therefrom and being open to receive the flame of the burner, a screen covered air inlet formed in the shell adjacent the other end of the flue, and a blower connected with the discharge flue to induce a flow of air lengthwise of the shell toward the burner supporting head and then in the reverse direction through the discharge flue, an air inlet head on the burner and means for conveying air from the interior of the shell to the air inlet head of the burner.

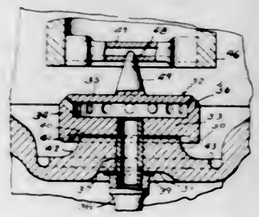
2,663,363
AUTOMATIC REFUELING BOILER DEVICE
Willy F. Krautter, Lynbrook, N. Y., Wunibald I. E. Kamm, Dayton, Ohio, and Kurt Staiger, Indianapolis, Ind.; said Krautter assignor to the United States of America as represented by the Secretary of the Air Force
Application February 13, 1952, Serial No. 271,414
5 Claims. (Cl. 158—31)
(Granted under Title 35, U. S. Code (1952), sec. 266)

4. In combination, a pressurized fuel boiler intermittently connected to a fuel reservoir by a pump device for feeding fuel to said boiler from said reservoir, said pump device comprising pressure orifice means communicating with said boiler, and spring means opposing a pressure responsive surface to operate said pump, said orifice means permitting the force of said spring means to overcome the force exerted by the pressure in said pump device on said pressure responsive surface when the pressure in said boiler drops below a predetermined amount after the fuel is suddenly expended, thereby fluid will be forced from said pump device into said boiler for recharging said boiler for subsequent operation, said pressure orifice means and said spring means cooperating with said pressure responsive surface to provide means for permitting fuel



to flow into said pump device from said reservoir when the force due to the pressure in said pump from said boiler overcomes the force exerted by said spring.

2,663,364
OIL BURNER FOR TOBACCO DRYING AND CURING MEANS
William B. Dowless, Abbottsburg, N. C.
Application June 28, 1951, Serial No. 234,042
1 Claim. (Cl. 158—53)



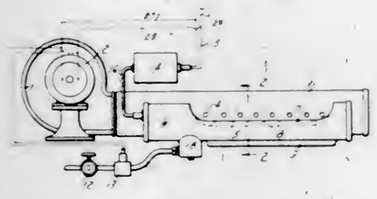
A burner for use in tobacco curing systems comprising a cylindrical housing closed at one end and open at the other end, said housing being formed of complementary upper and lower semi-cylindrical members, confronting pairs of ears carried by said members, means securing said ears together, an upwardly offset circular boss carried by said lower member, a fuel nozzle seated on said boss, said nozzle being formed of a hollow disc-shaped body having upwardly and outwardly directed openings, said nozzle being greater in diameter than said boss and having a marginal bead extending downwardly from the bottom thereof and overhanging the boss, said lower member having an annular channel formed therein outwardly of said boss and below said nozzle, said channel being greater in diameter than said nozzle, overflow pipe means connected to said channel, said boss being downwardly and outwardly flared to conduct the oil drippings from said bead to said channel a raised dam extending transversely across the interior of said lower member between said burner and said open end, said dam being of a height substantially equal to the height of the top of said burner, an air intake pipe extending through said upper member in alignment with said nozzle and terminating above the latter, and a fuel supply line connected with said nozzle.

2,663,365
FIRING HEAD ASSEMBLY FOR FUEL BURNERS
Ralph W. De Lancey, Yalesville, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application April 14, 1951, Serial No. 221,041
8 Claims. (Cl. 158—76)



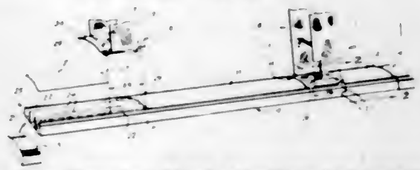
1. A firing head assembly for fuel burners of the gun type having a tubular air blast duct adapted for connection to a blower, which assembly is adapted and arranged to be positioned in said duct and which comprises a fuel conduit having fuel-receiving and discharging ends, coupling means at the fuel-receiving end of said conduit for connecting the latter to a source of fuel, nozzle means connected to the fuel-discharging end, a sleeve surrounding said conduit and in bearing contact therewith to permit rotatively angular adjustment of said conduit therein, supporting means for positioning said assembly within said duct, said supporting means fixedly engaging said sleeve to prevent rotatively angular movement of the latter with such movement of said conduit, and ignition means so carried operatively adjacent said nozzle means by said supporting means as to prevent said ignition means from participating in said angular adjustment.

2,663,366
TROUGH-TYPE OIL BURNER WITH FORCED COMBUSTION AIR SUPPLY
Herman R. Harris, Grosse Pointe Woods, Mich.
Substituted for abandoned application April 22, 1947, Serial No. 744,276. Divided and this application September 16, 1953, Serial No. 383,493
6 Claims. (Cl. 158—92)



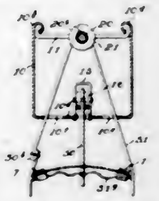
5. An oil burner comprising a horizontal trough, means for supplying oil thereinto, a tubular member spaced horizontally from said trough and having in a side wall thereof horizontally spaced apertures facing said trough, a blower joined to said tubular member for causing a lateral flow of air through said apertures into and across said trough, the edge of the trough adjacent said tubular member being below the plane of the outer edge of said trough, said apertures being horizontally directed with some of them arranged below the level of the outer edge of said trough whereby streams of air discharging from said tubular member are deflected by said outer edge of said trough to contact the surface of the oil in said trough, some of said apertures in said tubular member being so arranged that a plurality of streams of air will project across the outer edge of said trough carrying therewith a portion of the burning gases from within said trough thus forming a main flame of combustion laterally of said trough.

2,663,367
VENETIAN BLIND BOTTOM BAR
Hans K. Lorentzen, Montclair, N. J., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application September 13, 1949, Serial No. 115,407
9 Claims. (Cl. 160—173)



1. In a Venetian blind, a bottom bar organization comprising: a sheet metal channel extending along the bottom of the Venetian blind, a cover member of lesser length than the channel and secured to the channel centrally of its ends, a pair of sheet metal fittings positioned on top of the channel and secured to the channel by snap-in engagement of the fitting with the channel, one of said fittings being located adjacent to each end of the central cover member, a pair of lift cord ends secured to said fittings, vertical branches of ladder tapes extending downwardly adjacent the sides of said fittings, means attaching said branches to said fittings, and end cover members secured to the channel and extending from the outward ends of said fittings to adjacent the ends of the channel, the end portions of the fittings overlying the cover members.

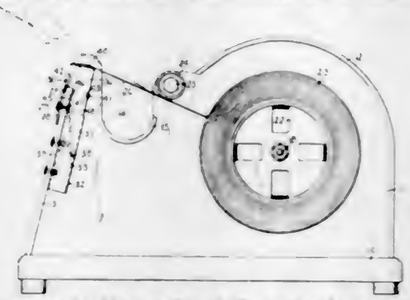
2,663,368
VENETIAN BLIND CLOSED HEADRAIL
Brooks Walker, Piedmont, Calif.
Application March 22, 1950, Serial No. 151,231
6 Claims. (Cl. 160—177)



1. In a Venetian blind, a head rail of channel form including opposite side walls and a base, a tilt rod, bearing means for the tilt rod operatively engaged with and supported by the free edges of said side walls, apertures in said base, a ladder tape including spaced parallel slat supporting portions beneath said base and upwardly converging loop forming portions extending through said apertures and around said tilt rod.

2,663,369
TAPE DISPENSING MECHANISM WITH BLADE GUARD
Oscar P. Erhardt, Derby, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Application July 12, 1949, Serial No. 104,219
12 Claims. (Cl. 164—36)

1. In a device for dispensing pressure-sensitive tape, a frame, means thereon for rotatably supporting a supply roll of tape, a severing blade fixedly supported on the frame in a position spaced from the supply roll, a tape-end support having an upwardly facing supporting surface to engage the tacky side of the tape, means mounting the tape-end support on the frame adjacent the blade for movement in a direction



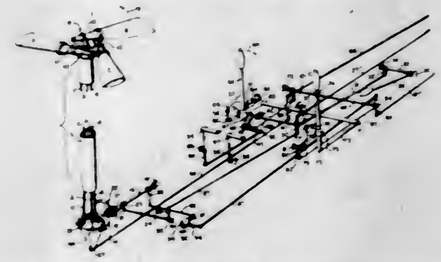
transverse to the path of the tape between the supply roll and blade, a blade guard hingedly connected to the frame and normally overlying said blade to guard the same, and means connecting said guard to said tape-end support mounting member for movement thereby to an inoperative position.

2,663,370
FISHING TOOL FOR WELLS
Robert Donnell, Midland, and James Ray Jennings, Odessa, Tex.
Application May 31, 1952, Serial No. 290,886
8 Claims. (Cl. 166—19)



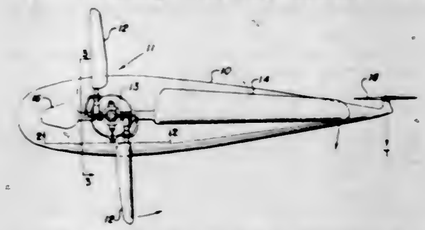
1. A fishing tool for wells, comprising, an elongated tubular body adapted to be lowered in a well on a pipe, an enlarged internal chamber in said body opening through its lower end, a closure for the upper end of said chamber, a port in said closure providing communication between said chamber and said pipe, fluid passages extending through said closure and outwardly and downwardly through the wall of said body to the exterior thereof at points above its lower end, openings through the wall of said chamber from the interior to the exterior thereof, and movable valve means controlling said port, said valve means including means normally resiliently urging the valve means to the open position and said valve means being closable by flow of fluid from said pipe exceeding a predetermined rate.

2,663,371
CONTROL SYSTEM FOR TANDEM ROTOR HELICOPTERS
Gilbert W. Magill, Los Angeles, Calif.
Application December 17, 1945, Serial No. 635,443
6 Claims. (Cl. 170—135.24)



1. In a helicopter having contra-rotating motor-driven lift rotors disposed on horizontally separated rotor axes and each provided with adjustable pitch blades tiltably mounted for pitch adjustment about axes that are fixed with reference to the respective rotor axis, swash rings for transmitting blade pitch adjustment to the blades of the respective rotors, means in which said swash rings are mounted for bodily shifting vertical movement for collective pitch change, an attitude control lever, mounted for universally pivotal movement, a crank shaft connected to said attitude control lever for receiving rotative movement therefrom when said lever is moved fore or aft, a bearing in which the end of said crank shaft adjacent said lever is mounted for rotative movement and for planar swinging movement, crank means on said crank shaft disposed toward the swinging end of said crank shaft, linkage responsive to rotative movement of said crank means for transmitting to said swash ring supporting means, vertical movements in opposite directions for effecting differential collective pitch change in the respective rotors for diving and climbing operations, and control means for effecting said planar swinging movement of said crank shaft without substantial rotation thereof whereby to bodily move said crank means and transmit to said swash ring supporting means, vertical movements in the same direction to effect collective pitch change in said rotors for direct ascending and descending operations.

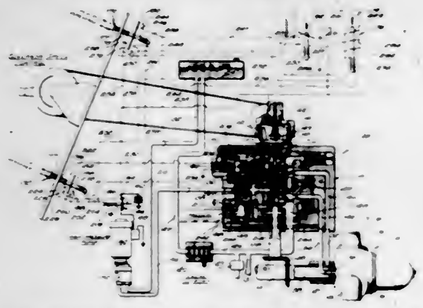
2,663,372
VARIABLE PITCH CONTROL OF HELICOPTER COAXIAL ROTORS
Igor I. Sikorsky, Bridgeport, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 4, 1948, Serial No. 24,949
7 Claims. (Cl. 170—135.26)



1. In a helicopter, a main sustaining rotor having a single, large radius variable pitch blade, an auxiliary rotor having a plurality of smaller

radius variable pitch blades, means including an engine for driving said main and auxiliary rotors at different speeds and in opposite directions relative to each other, pilot controlled means including connections to said auxiliary rotor blades for changing the collective pitch of the latter, and means connecting said auxiliary rotor to said main rotor and responsive to aerodynamic and dynamic forces acting on said auxiliary rotor as a result of a collective pitch change imposed thereon by the pilot for controlling the pitch of said main rotor blade.

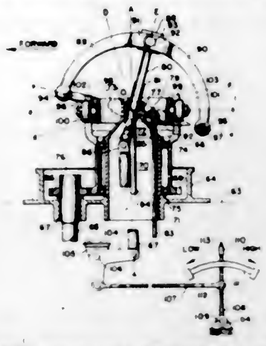
2,663,373
REVERSIBLE PITCH PROPELLER
Nelson R. Richmond, Thompsonville, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application September 14, 1946, Serial No. 697,065
25 Claims. (Cl. 170—160.2)



1. In combination, a propeller having variable pitch blades, a hydraulic pitch changing motor therefor, a governor controlling the admission of fluid to said motor in a normal operating range of pitch variation, a source of fluid pressure for operating said motor to move said blades beyond the governor controlled range, a fluid passage for connecting said source with said motor, pressure responsive means connected with said fluid passage for controlling said fluid pressure source, and means for creating a pressure surge in said fluid from said source to actuate said pressure responsive means when said propeller blades have been moved to feathered position or reverse position and also when in unreversing movement they have reached the normal governor controlled range, said surge creating means including a valve for temporarily altering the flow of fluid from said source to said motor incident to movement of said blades in unreversing movement past a predetermined position into said normal range.

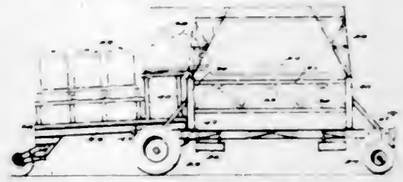
2,663,374
HELICOPTER ROTOR CONTROL MECHANISM
Will Vandermeer, San Diego, Calif., assignor to The Ryan Aeronautical Co., San Diego, Calif., a corporation of California
Application March 22, 1949, Serial No. 82,863
15 Claims. (Cl. 170—160.26)

1. In an aircraft, a body, a driven member mounted upon said body for rotation about a generally vertical axis, a lifting rotor having blades pivotally mounted upon said member for blade pitch adjustment about a transverse axis, said rotor also being pivotally mounted upon said member for tilting adjustment about the intersection of said vertical and transverse axes, control means including a ball-and-socket assembly supported from said body and operating mechanism cooperatively connecting said assembly with said rotor for adjusting said rotor blades about said transverse axis for collective pitch control of said rotor blades and cyclic pitch con-



trol mechanism including vertically translatable push-pull means operatively connected to said control means for tilting adjustment of said assembly for the cyclic pitch control of the blades of said rotor.

2,663,375
PORTABLE RIG MOUNT
Oscar D. Caldwell, Oklahoma City, Okla., assignor of one-half to H. A. Kyle, Oklahoma City, Okla.
Application February 24, 1950, Serial No. 146,071
4 Claims. (Cl. 180—14)



1. A portable rig mount having a carriage member, a trailer member arranged with its forward extremity in proximity to the carriage member, and hinge connections between said members comprising a plurality of laterally-spaced shackle links having their forward portions hinged upon the carriage member and their rear portions hingedly connected to the underside of the trailer member at a distance from its forward edge, the axes of the forward hinge-points connecting said shackle links to the carriage member being arranged in the same horizontal and vertical planes, and means for propelling the rig mount including traction elements supporting the rig mount on the ground, drive shafts journalled on the carriage member with their axes in the same horizontal and vertical planes as said forward hinge-points, and power-transmitting means operatively connecting the drive shafts and traction elements.

2,663,376
TRAINING DEVICE FOR CRIPPLED CHILDREN
Todd M. Curley, Mahanoy City, Pa.
Application December 24, 1952, Serial No. 327,752
10 Claims. (Cl. 180—19)

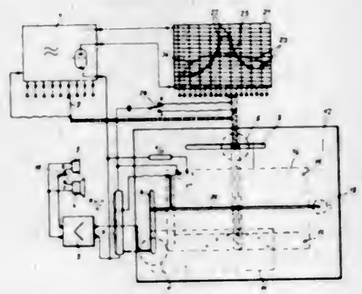
1. A training device for crippled children, comprising a chassis frame, a pair of swivel mounted wheels mounted on the front end of the chassis frame, a shaft rotatably mounted across the rear

end of the chassis frame, a wheel mounted on each end of the shaft for rotation therewith, an upstanding frame extending medially of and joined by its end portions to the front and rear ends of the chassis frame, a frame member depending from the midportion of the underside of the central frame, a pedal crank rotatably mounted in the depending frame member, a pedal including foot securing means rotatably mounted on each end of the pedal crank, a forwardly extending seat mounted on the upper rear portion



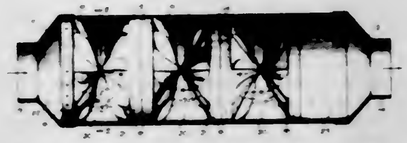
of the central frame, a leg separating and guiding member extending along the midportion of the central frame and rearwardly of the pedal crank to adjacent the front edge of the seat, a fixed handle bar member secured to the forward end portion of the central frame and arranged above the leg separating and guiding member in advance of the seat, and driving means connected between the pedal crank and the wheel shaft rotating the pedal crank in response to movement of the training device over a supporting surface.

2,663,377
AUDIOMETRIC APPARATUS
Walter Grandjot, Bremen, Germany
Application April 20, 1950, Serial No. 157,020
1 Claim. (Cl. 181—.5)



In an apparatus for measuring hearing-loss by air conduction and bone conduction, the combination of: a source of an electrical oscillation for the generation of electrical current of variable frequency, an amplifier having a movable volume control, a receiver for bone conduction, a receiver for air conduction, a change over switching means for connecting the electrical source of variable frequency to the input of said amplifier and from the output of the amplifier to either of said receivers, said movable volume control having means for adjusting the electric current up to the maximum volume which can be delivered by said amplifier, an indicator, and a hearing-loss scale having a zero line, said scale operatively connected with the movable volume control, a control switch operatively associated with said movable volume control for increasing electric current when changing over from air conduction to bone conduction, means for limiting the movement of the volume control at different points of the hearing-loss scale, the limiting for the bone conduction being nearer to the zero line of the scale than that for air conduction, each of said different points corresponding to said maximum volume said control switching for increasing the volume when changing over from air conduction to bone conduction having a stopper arranged to be moved into the path of said movable volume control to limit its movement.

2,663,378
BAFFLE TYPE MUFFLER
William Keller, Flint, Mich.
Application December 11, 1950, Serial No. 200,216
2 Claims. (Cl. 181—67)

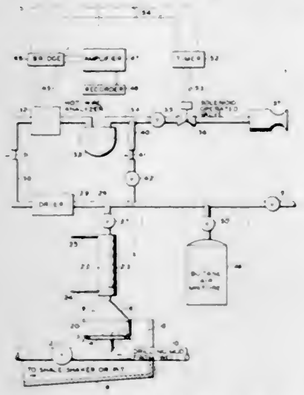


1. A muffler comprising a tubular casing having an inlet opening at one end and an outlet opening at the other end; a baffle in said casing adjacent one end thereof and consisting of a circular plate bellied by having the central portion thereof laterally offset toward one end of the tubular casing and having radially extending openings therein that are louvered outwardly from the convex side of said bellied portion in a manner to spirally deflect gases passing through the openings, and a cylindrical flange at the periphery of said circular plate concentric to said tubular casing and extending in a direction opposite to that of said bellied offset portion, said cylindrical flange being in engagement with and secured to the inside of the tubular casing; a plurality of other baffles of identical construction to that of said first-mentioned baffle positioned in said tubular casing between said first-mentioned baffle and the opposite end of the tubular casing with the flanged portions and offset bellied portions alternately reversed relative to one another and to the flanged portion and bellied portion of said first-mentioned baffle thereby arranging the louvered openings of all of said baffles in directions to produce a continuous helical motion to gases passing under pressure through the tubular casing; and means supporting said plurality of baffles in said casing with their flange portions and offset bellied portions in abutting engagement with like portions of adjacent baffles.

2,663,379
APPARATUS FOR HYDROCARBON DETERMINATION
Richard Lloyd Doan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 10, 1948, Serial No. 26,118
3 Claims. (Cl. 183—2.5)

1. Improved drilling mud gaseous extraction apparatus comprising, in combination, a drilling mud conduit having an upright positioned branch thereof, a member having a downwardly inclined

surface disposed at the outlet of said branch conduit for spreading out the mud discharged therefrom, a hood for trapping gases escaping from the mud having its lower end closely spaced to the edge portions of said surface defining an opening between said hood and said surface through



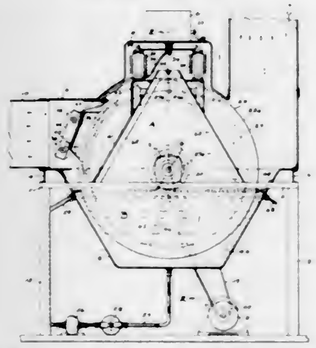
which the interior of said hood is in direct communication with the atmosphere surrounding said hood whereby atmospheric air can enter said hood through the opening between said hood and said surface, and means for withdrawing the resulting gases from said hood.

2,663,380

ROTARY ELECTROSTATIC FILTER

Christian W. Savitz, South Euclid, Ohio, assignor to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware

Application March 14, 1951, Serial No. 215,452
7 Claims. (Cl. 183—7)



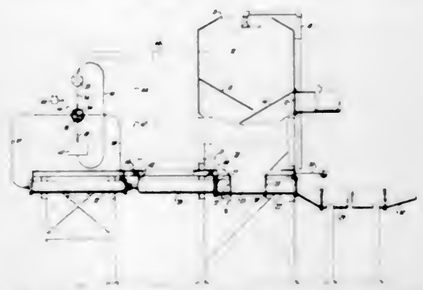
1. An electrostatic filter for removing particles borne in a gaseous stream and comprising duct means having an inlet and outlet, a liquid bath reservoir below and adjacent said duct means between said inlet and outlet, a shaft extending across said duct means just above said reservoir, said shaft being at right angles to the general direction of gas flow, a plurality of circular collector plates mounted in laterally-spaced parallel relationship on said shaft, means for rotating said plates on said shaft whereby to carry portions of said plates from said duct means and through said reservoir and back to said duct means, a particle charging electrode mounted between a pair of said plates near the periphery thereof and in said duct means near said inlet, said particle charging electrode being arcuate about the same center as said circular collector plates, a fixed collector plate mounted between and parallel to each pair of circular collector plates and insulated therefrom, and means for supplying a high potential direct current of one sign to said charging electrode and to said fixed collector plate and for providing high potential of opposite sign to said circular collector plates.

2,663,381

COTTON GIN TRASH DISPOSAL UNIT

William M. Galloway, Taft, Calif.

Application July 7, 1952, Serial No. 297,585
4 Claims. (Cl. 183—31)



1. In a device of the class described including a vertically positioned waste collector tank having an air discharge port in the upper portion thereof and a discharge hopper in the lower end thereof, and means for admitting a waste laden air stream into the lower portion of said tank above said discharge hopper; the combination of means for removing waste material from the air stream comprising a series of baffles in said tank intermediate said discharge port and said admitting means, and water spraying means in the upper portion of said tank above said baffles, whereby the velocity of the waste material entrained in said air stream is substantially reduced in said tank by said baffles thereby permitting such waste material to be saturated and washed down into said discharge hopper by the water from said spraying means; and means for removing said washed down waste material and water from said hopper comprising a cylinder in peripheral communication with the lower portion of said hopper the axis of said cylinder being transverse to the vertical axis of said tank, said cylinder having a foraminous wall portion, a discharge member connected to one end of said cylinder, and a piston reciprocable within said cylinder and adapted to remove water from said waste material by compression thereof above said foraminous wall portion, and to simultaneously force said waste material in said cylinder into said discharge member.

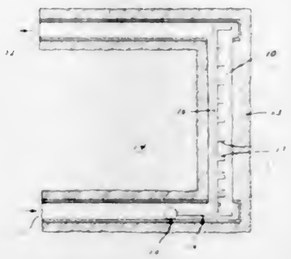
2,663,382

METHOD FOR SEPARATION OF GAS SUSPENDED DUST PARTICLES

Lucien Dautrebande, Washington, D. C., assignor to Aerosol Corporation of America, New York, N. Y., a corporation of Delaware

Application November 24, 1948, Serial No. 61,862
Claims priority, application Belgium
November 25, 1947
4 Claims. (Cl. 183—121)

1. A method of eliminating dust particles having a particle size of about one micron or less in suspension in a contaminated zone which comprises directing into the contaminated zone a stable aerosol formed from a water solution having a concentration of at least 5% by weight of a material selected from a group consisting of sodium, calcium and aluminum chlorides, the aerosol having an average particle size of about



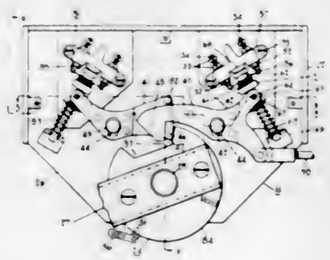
0.5 micron, sufficient at the point of generation to comprise at least several hundred thousand particles per cubic millimeter of air and sufficient to coat all the dust particles and cause agglomeration and settling thereof.

2,663,383

INTERLOCKING MECHANISM FOR ELEVATOR DOORS

Benjamin Whitehead Tucker, Jr., South Orange, N. J., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey

Application February 29, 1952, Serial No. 274,207
8 Claims. (Cl. 187—50)



8. Interlocking mechanism for an elevator hoistway door having a door framework secured in the hoistway wall, said mechanism comprising; a door arm, one end of which is connected to said hoistway door and the other end of which is rotatably mounted on the hoistway door framework; a catch member secured to said other end of the door arm to be rotated thereby in accordance with hoistway door movement, said catch member being formed with a recessed locking surface; a door spring acting through said catch member and said door arm to bias said hoistway door to door closed position; a pivotally mounted first latch member biased for engagement with said recessed locking surface to lock said door in a first interlock zone; an interlock switch directly operated by said first latch member; a pivotally mounted second latch member biased for engagement with said recessed locking surface to lock said door in a second interlock zone; a second interlock switch directly operated by said second latch member; and means for moving said latches out of engagement with said locking surface to unlock said door.

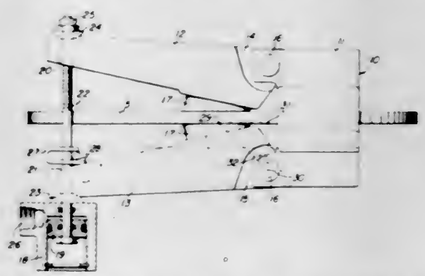
2,663,384

SELF-ENERGIZING SINGLE-DISK BRAKE

Richard K. Chamberlain, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application August 8, 1951, Serial No. 240,896
3 Claims. (Cl. 188—73)

1. A self-energizing brake assembly including a member, a disc mounted to rotate relative to the member, a torque plate secured to the member, a shoe supporting bracket secured to the torque plate, the bracket extending on either side of the disc, a pair of brake shoes, each shoe being pivotally secured to an opposite end of the bracket and supported thereby in slightly outwardly directed relationship from the points of pivotal support on either side of the disc, the ends of the brake shoes remote from the pivot points extending beyond the outer periphery of the disc, a tapered plug of friction material rigidly secured to each of the brake shoes on the surface of the shoes adjacent the disc, and intermediate of the ends of the shoes, the taper on



the plug and the outwardly directed brake shoes resulting in the surfaces of the plugs being parallel with the faces of the disc, the plugs terminating short of the plane between the brake shoe pivots, a tension member pivotally secured to the end remote from the pivot of one of the shoes, said tension member extending through the corresponding end of the other brake shoe, and an hydraulic motor means having a piston and cylinder the cylinder of which engages the said other brake shoe and the piston of which is secured to said tensioning member whereby the motor means imparts a clamping action to the brake shoes to clamp the disc between the friction plugs, said disc being rotatable in the direction from the plugs of friction material toward the pivotal supports for the brake shoes.

2,663,385

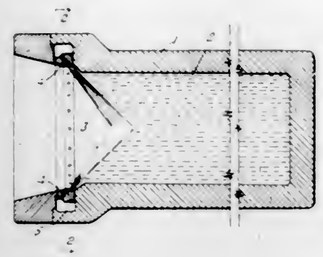
FLUID SEAL

James R. C. Waterston, Edinburgh, Scotland, assignor to Brown Brothers & Co. Limited, Edinburgh, Scotland, a corporation of Great Britain and Northern Ireland

Application November 30, 1950, Serial No. 198,279
Claims priority, application Great Britain
July 10, 1950
3 Claims. (Cl. 188—100)

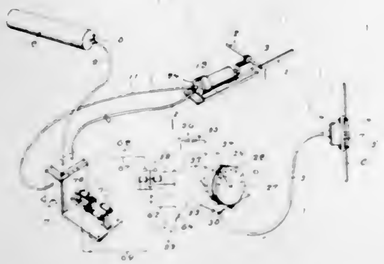
1. In a generally horizontally-disposed cylinder for use in retarding the movement of a ram having a closed end and an open end to receive the ram, means operatively associated with the open end of the cylinder for filling the cylinder with liquid and for maintaining liquid in the cylinder in opposition to the natural tendency of the liquid to run out of the cylinder, said means comprising walls defining a circular-shaped annular chamber at the mouth of the cylinder, the inner wall of said chamber having a series of

spaced passageways extending around said wall each leading from said chamber to the mouth of said cylinder, each passageway extending at an incline to and to one side of the axis of the cylinder and at an incline to a radius therefrom in a direction for directing a jet of liquid into the cylinder from its mouth at an angle to said ra-



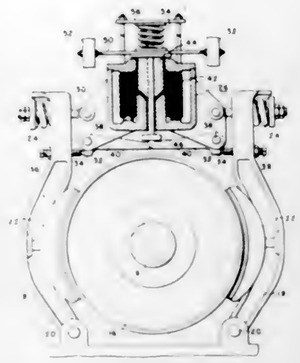
dius and to one side of the axis of the cylinder, the passageways of the series extending in the same direction with respect to said wall and the axis of the cylinder, and means for conducting liquid under pressure into said chamber for delivery through said passageways into said cylinder.

2,663,386
AUTOMATIC BRAKE RELEASE
Jack Fenley, San Bernardino, Calif.
Application March 11, 1949, Serial No. 80,883
6 Claims. (Cl. 188—110)



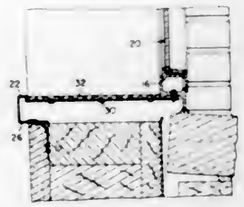
1. In an automatic brake release for a well-drilling rig including a suspending cable, a brake releasing mechanism, a tension actuated hydraulic compressor mounted on and responsive to pressure from the cable, a pneumatic brake motor for the brake releasing mechanism, a governor for the pneumatic brake motor, an intake and an exhaust valve for the governor, a pair of cam-rods and coacting means for opening and closing the respective valves, and electro-magnetic operating means for reciprocating said cam-rods, the combination with a circuit maker, a weight-indicator having a conduit connection with said compressor whereby said weight-indicator is activated by the compressor and a movable member for the weight indicator forming a movable contact for the circuit maker, of a switch-control circuit including said movable contact and circuit maker, an operating electric circuit for the operating means of the governor, and a switch for connecting the switch circuit and the operating circuit.

2,663,387
ELEVATOR BRAKE
Harry Berkovitz, Weehawken, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 2, 1950, Serial No. 182,949
8 Claims. (Cl. 188—171)



2. In a spring-actuated magnetically-releasable brake including a brake drum, a brake shoe for for cooperation therewith and resilient means biasing said shoe against said drum in brake-applying relation, an electromagnet having a movable core and means controlled thereby when said electromagnet is energized and acting against said resilient means for releasing said brake shoe, and means operative when said electromagnet is deenergized for imposing an oscillatory force on the force exerted by said resilient means in applying said brake shoe.

2,663,388
INLAID SURFACE FOR WINDOW SILLS
Werner B. Anderson, Detroit, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a corporation of Michigan
Application May 8, 1950, Serial No. 160,779
3 Claims. (Cl. 189—75)



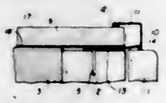
3. A window frame construction comprising a broad sill member having an upstanding narrow flange along its room side edge, jamb members having inner surfaces at the bottom thereof intersecting the upper surfaces of said sill member at the ends thereof and at the weather side of said flange, an upwardly extending elongated element extending along said sill at the weather side thereof, said flange, the inner surfaces at the bottom of said jamb members, and said element defining a completely surrounded recessed seat on said sill member, and a corrosion resistant sheet member covering said entire seat and adhered thereto.

2,663,389
WINDOW SILL
Charles I. Girschowitch, New York, N. Y.
Application March 13, 1951, Serial No. 215,234
1 Claim. (Cl. 189—75)



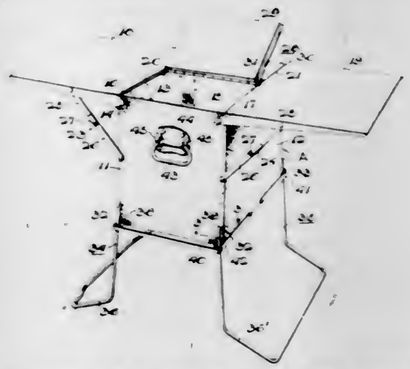
An awning type window having a hollow extruded metal sill, which sill consists of a bottom strip, one edge of which is provided with an angled portion, the body of which is above and parallel with the main body of the strip and provided with a longitudinal recess at the lower edge of the bottom strip, and with an upstanding right angled rim at the remote edge from the angled portion; an upper plate provided with a forward right angled portion terminating in a box like modified U-shaped portion, the lower inturned edge of which fits under the angled portion of the bottom strip and forms therewith a housing for a driving mechanism for the window; a closure member having a central longitudinal short portion parallel with the bottom strip when the parts are assembled, and two oppositely disposed members at right angles respectively to the central short portion and adapted to fit against the rear upper edge of the upper plate and the rear edge of the bottom strip; and a securing means carried by the bottom strip to receive the lower edge of the closure member.

2,663,390
METAL CASING FOR DRY WALL CONSTRUCTION
Walter R. Dordel, West Hempstead, N. Y., assignor to Casings, Inc., New York, N. Y., a corporation of New York
Application February 10, 1950, Serial No. 143,408
3 Claims. (Cl. 189—88)



1. Metal casing adapted to provide a protective trim for the edge of a dry wall panel and also secure the panel at said edge to a door or window jamb or other backing, said casing comprising: an elongated sheet metal strip generally channel shaped in cross section with spaced top and bottom flanges connected by a web, the bottom flange being considerably wider than the top flange and projecting beyond the marginal edge of the top flange so that the bottom flange may be nailed to a jamb or other backing; an upwardly projecting longitudinally extending bead pressed into that part of the bottom flange which projects beyond the top flange; a longitudinally extending panel-engaging lip on the marginal edge of the top flange, the underside of said lip being spaced down from the under-surface of the top flange and from the top of the bead a distance, measured generally perpendicularly to the bottom flange, equal to the thickness of the panel for which the casing is designed; said bead being located at a distance spaced outwardly beyond the panel engaging lip on the top flange so that the shortest distance between the bead and the outermost edge of the lip is greater than the thickness of the panel for which the casing is designed to facilitate insertion of a panel between the flanges and guard against crumpling the edge of the panel during its insertion; the junction of the bottom flange with the web being on a level with the projecting portion of the bottom flange; and a portion of the bottom flange between the bead and the web being inclined upwardly from a line substantially directly below the outermost edge of the lip towards the top flange providing a ramp rising from said line, the gradient of said ramp being such that a medial portion thereof crosses the level of the top of the bead, so that the bottom leading edge of a panel inserted between the flanges and moved edgewise towards the web will engage and begin to ride up the ramp while still spaced from the web and thereby press the junction between the web and the bottom flange firmly against a jamb or other backing to which the casing is secured.

2,663,391
PORTABLE CONTAINER COMBINATION
James H. Kuhns, Winfield, Kans.
Application May 21, 1951, Serial No. 227,437
3 Claims. (Cl. 190—12)



1. A container having bottom, side and end walls, a pair of panels having side flanges, said flanges being pivoted to said end walls adjacent the top of said container thereby permitting said panels to extend from the sides of said container in alignment with the top thereof, rigid U-shaped members pivoted to the end walls adjacent the bottom of said container, said members each having outwardly offset portions serving in one position to converge together as handle means and in another position to diverge apart as container supporting means, and locking members pivoted to said side walls adjacent the bottom of said container, said locking members having portions adapted to embrace said U-shaped

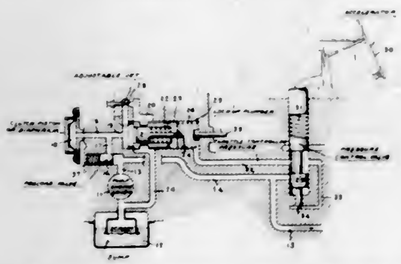
members adjacent their respective pivoted ends when said U-shaped members are in container supporting position with said offset portions in diverged apart position upon a supporting surface.

2,663,392
PORTABLE SINK FOR CAMPERS' USE
Paul J. Miller, Butte, Mont.
Application June 26, 1952, Serial No. 295,788
5 Claims. (Cl. 190—12)



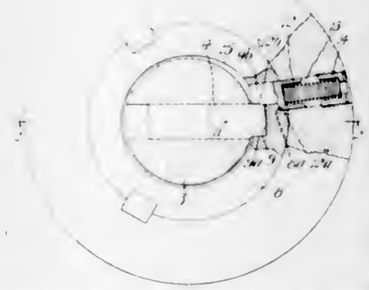
1. A portable sink for campers' use comprising an upwardly open sink body subdivided between its ends to provide a wash water basin and a rinse water basin, separable cover sections each open at one end and adapted to be aligned in end to end relation with their open ends abutted to thereby form a closure for the open top of the sink body, said cover sections being removable from closed relation to the sink body for disposition in inverted condition to respectively extend outwardly from opposite ends of the sink body, in drain board forming relation to said sink body, with their open ends respectively overhanging the respective end walls of said sink body, coupling means carried by the open ends of said cover sections operative to detachably engage the top marginal portions of the end walls of said sink body whereby to connect said cover sections in said extension therefrom, a pair of stay bars for each cover section, each stay bar having coupler arms projecting angularly from its opposite ends, a pair of socket devices affixed to the external face of each sink body end wall, and a pair of socket devices affixed to the external face of each cover section adjacent its outer end, coupler arms at opposite ends of said stay bars being adapted to be respectively detachably engaged with said first and second named pairs of socket devices, whereby to connect said stay bars between said sink body and the cover sections in one position, when the sink body is open, to support the cover sections in inwardly and downwardly inclined drain board forming relation to the open sink body.

2,663,393
AUTOMATIC CLUTCH
William T. Livermore, Grosse Pointe Farms, Mich.
Application January 29, 1949, Serial No. 73,615
27 Claims. (Cl. 192—.07)



1. A drive engagement control adapted for use in a self-propelled vehicle having an engine, a manually operated throttle linkage for controlling the speed of said engine, a driven shaft, and gradually engageable coupling means for establishing drive between said engine and shaft, comprising a fluid pressure operated mechanism for effecting coupling engagement, a source of fluid pressure having a volume capacity increasing with engine speed communicating with said mechanism, an exhaust orifice also communicating with said mechanism and proportioned relative to said volume capacity in a manner adapted to effect desired coupling engagement increasing with engine speed, a further exhaust passage, a valve for blocking said latter exhaust passage urged toward an open position by said fluid pressure for effecting coupling engagement, and a source of fluid pressure controlled by said throttle linkage urging said valve to a closed position.

2,663,394
CLUTCH FOR POWER PRESSES
Henry Denis Challen, Birmingham, England, assignor to Taylor & Challen Limited, Birmingham, England, a British company
Application November 2, 1951, Serial No. 254,594
3 Claims. (Cl. 192—26)



1. A key clutch for power presses comprising in combination a shaft, a radially slidable key in said shaft, a spring for urging said key outwardly from the shaft, a clutch ring surrounding the part of the shaft containing the key having on its inner periphery a notch of a width greater than the outer end of the key measured in the direction of rotation, a plunger slidable in the clutch ring and positioned so that its inner end can project into the notch to limit the width of the notch in the direction of rotation to a width substantially equal to the outer end of the key, a spring for urging said plunger inwardly having a power less than the power of the spring for urging the key outwardly and a cam plate axially movable about the shaft whereby the key can be retained from entering the notch in the clutch ring.

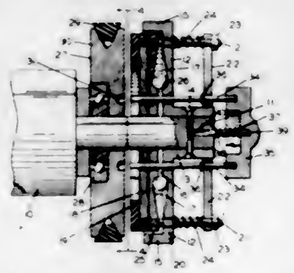
2,663,395
IMPACT HAMMER ELEMENT
Paul E. Schmid, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application October 16, 1951, Serial No. 251,515
3 Claims. (Cl. 192—30.5)

1. An impact driving connection comprising a rotatably supported driven member, a rotatable driving member coaxially supported with respect to said driven member, a cylindrical hammer carrier between said members connected to said driving member for rotation therewith, a pair of axially spaced and diametrically opposed anvils on said driven member and within said carrier, a hollow hammer element surrounding each anvil and pivotally connected to said carrier for rotation therewith and pivotal movement relative thereto, each hammer element having an internal shoulder movable into and out of the



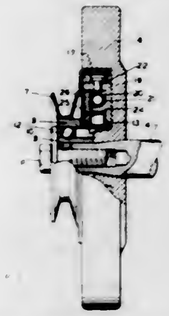
path of its respective anvil by virtue of said pivotal movement for delivering a succession of impacts to said anvil, said carrier having a pair of relatively long uninterrupted straight innermost parallel surfaces, and at least one relatively long uninterrupted straight external side wall on said hammer element engageable with one of said surfaces for limiting the pivotal movement of said hammer element.

2,663,396
CENTRIFUGALLY ENGAGED CLUTCH
Arthur W. Wagner, Milwaukee, Wis., assignor to Easy Power, Incorporated, Milwaukee, Wis., a corporation of Wisconsin
Application May 28, 1948, Serial No. 29,709
3 Claims. (Cl. 192—105)



1. A clutch mechanism of the character described comprising, a driven shaft, a main disc rigidly mounted to said shaft, an auxiliary disc provided with a frictional contact member on its outer face, a driven pulley mounted on said shaft adjacent to said auxiliary disc, said main disc and auxiliary disc resiliently urged toward one another, said main disc provided with a plurality of semi-radial indentations tapered outward from their greater depth toward the periphery of said main disc, said auxiliary disc provided with a tapered annular ring in opposite relation to said indentations in the main disc, and a plurality of spherical members disposed for engagement with said indentations and held therein by means of said tapered ring, said spherical members moving outward toward the periphery of said discs when said discs are revolved, causing said auxiliary disc to move away from said main disc causing frictional contact of said auxiliary disc with said driven pulley.

2,663,397
CENTRIFUGAL AND ONE-WAY CLUTCH
Lloyd H. Scott, Chagrin Falls, Ohio, assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application September 24, 1949, Serial No. 117,531
4 Claims. (Cl. 192—105)

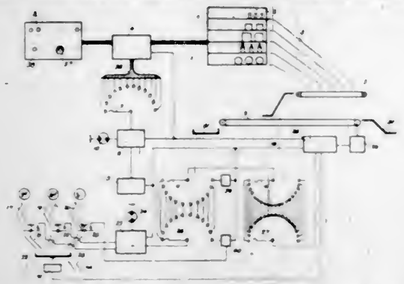


1. A clutch for use between a power source and a driving member for driving a driven member, said clutch having power source driven centrifugal segments normally spring pressed radially inwardly, said segments having outer frictional driving surfaces and being adapted, in response to a predetermined power source speed, to automatically engage said clutch by engaging said segment friction driving surfaces with said driving member and to be automatically spring retracted out of such frictional engagement at lesser power source speeds to disengage said clutch, independent means, operable by drive of said driving member and independently of power source operation, for engaging said clutch for cranking said power source, said independent means comprising rollers normally loosely engaging the outer surface of a bushing rigid with said driving member, said rollers being carried in recesses provided in the inner faces of said segments, said recesses having ramps inclined radially inwardly with respect to the direction of rotation of said segments, whereby rotation of said driving member in that direction, independently of power source operation, wedges said rollers in said recesses to engage said clutch by frictionally engaging said segments with said driving member.

2,663,398
ARTICLE VENDING SYSTEM
Thomas S. Skillman, Mosman, near Sydney, New South Wales, Australia, assignor to Punch Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, a corporation of New South Wales
Application August 22, 1950, Serial No. 180,723
Claims priority, application Australia October 14, 1946
14 Claims. (Cl. 194—10)

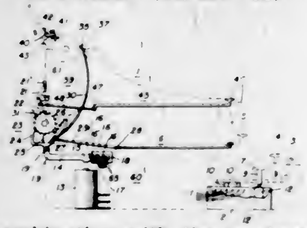
1. A system for vending articles of varied character, comprising: means to dispense selected articles; automatically operated adding means settable to positions corresponding to the totalized values of selected articles; a coin operated device adapted to accept a plurality of coins of various monetary units and including counting means settable independently from said adding means to positions corresponding to the totalized values of coins received; electrical circuits connecting said adding means and said counting means and including means connected with said

dispensing means and operable over said electrical circuits in corresponding positions of said adding means and said counting means to permit



the delivery of selected articles when the amount in coins received by said coin operated device is at least equal to the added up cost of said selected articles.

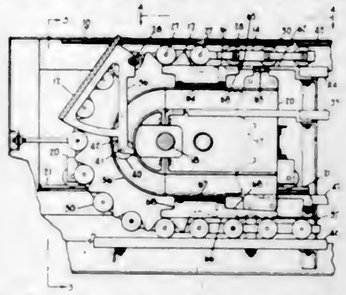
2,663,399
PROPORTIONAL SPACING APPARATUS
Erik Frey and Russell E. Hattis, Chicago, Ill.
Application March 15, 1952, Serial No. 276,849
16 Claims. (Cl. 197—84)



1. In combination with the carriage and key mechanism of a typewriter, a gear means coupled to said carriage to move same a distance proportional to the movement thereof, a rack member having first and second toothed portions extending on opposite sides of said gear means for an engagement with the teeth thereof to move said gear means, said toothed portions of said rack member being spaced to allow engagement of only one toothed portion at a time with said gear means, said first toothed portion normally in engagement with said gear means during forward movement of said carriage, means actuated by the back space key mechanism of said typewriter to move said first toothed portion of said rack member out of engagement with said gear means and to simultaneously move said second toothed portion thereof into engagement with said gear means, rack actuation means coupled between the character key mechanism of said typewriter and said rack member to move the toothed portions thereof an amount proportional to the size of the letter printed by the particular key struck, and letter blanking means actuated by the back space key for preventing the printing of any letters as a character key mechanism is operated during a back spacing operation.

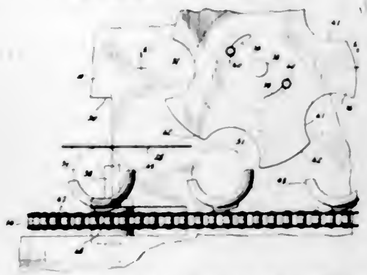
2,663,400
MOVING STAIRWAY
Samuel Gustave Margles, Brooklyn, N. Y., and Andrew Fabula, Hohokus, N. J., assignors to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application October 13, 1950, Serial No. 189,943
2 Claims. (Cl. 198—18)

1. A moving stairway comprising; a plurality of steps; a pair of running gear chains, one on each side of the stairway, connecting said steps together; a pair of sprocket wheels, one on each side of the stairway at one end thereof, around which the chains respectively pass; a chain wheel in each chain for each step arranged between side links of the chain for supporting the step; additional chain wheels in each chain arranged between the side links of the chain on the chain pins intermediate said supporting chain wheels, all of said chain wheels being of the same size and meshing with their respective sprocket wheels and said chain wheels being wider than



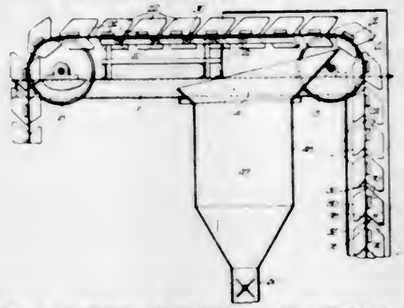
the teeth of said sprocket wheels with the excess width extending beyond their respective sprocket wheels on opposite sides thereof, said chains being guided laterally by the cooperation of the side links of the chains with the faces of said sprocket wheels on the sides thereof opposite to that beyond which the chain wheels extend; a pair of tracks for said chain wheels extending on each side of the stairway up to said sprocket wheel; and a pair of guides extending on each side of the stairway from said track to and overlapping the sprocket wheel along said side thereof beyond which said chain wheels extend.

2,663,401
JAR UNSCRAMBLER AND INVERTER
Clair E. Dascomb, Westfield, N. Y., assignor to The Welch Grape Juice Company, Inc., Westfield, N. Y., a corporation of New York
Application June 2, 1950, Serial No. 165,695
3 Claims. (Cl. 198—33)



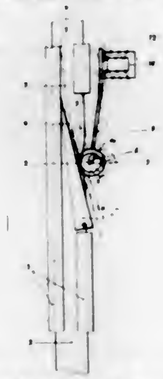
1. In a machine of the class described, a rotatable star wheel having peripheral spaced recesses each adapted to accommodate an article, an endless conveyor movable in spaced tangential relation to the star wheel, said conveyor being provided with fixed receptacles longitudinally spaced therealong and adapted, when a receptacle and a recess in the star wheel come into complemental relation, for withdrawing an article from the recess and conveying said article along the path of the conveyor, and a guide plate extending in parallel spaced relation to the central plane of movement of the conveyor and providing a bearing surface for holding the articles within the receptacles.

2,663,402
BUCKET CONVEYER
Wilhelm A. Melchior, Wilmette, and Alan R. Graff, Chicago, Ill., assignors to The Columbia Malting Company, Chicago, Ill., a corporation of Illinois
Application September 10, 1949, Serial No. 115,002
3 Claims. (Cl. 198—149)



1. In a conveyor, a plurality of pulleys, means for driving at least one of said pulleys, a continuous flexible belt extending around said pulleys, and a plurality of closely spaced buckets secured to said belt, said buckets having side, bottom, front and rear walls, the front and rear walls extending forwardly of their line of junction with the bottom, the front wall extending forwardly and upwardly from the bottom and terminating below the top of the sides, the rear wall having a lower portion extending forwardly upon a lesser angle than the front wall and an upper portion inclined rearwardly, the buckets being so spaced on the belts that the upper edge of the front wall of a bucket lies above the lower forwardly extending portion of the rear wall of the adjacent bucket and below the upper rearwardly inclined portion of the rear wall of said bucket.

2,663,403
UNLOADER FOR BELT CONVEYERS
Willy K. Sindzinski, Berlin, and Willy F. Hamm, Berlin-Wittenau, Germany, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 3, 1951, Serial No. 249,424
7 Claims. (Cl. 198—188)



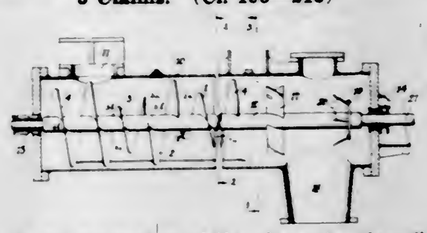
1. A belt conveyor for the distribution, to delivery stations along the belt, of tickets, or the like, traveling on edge, each of these delivery stations having a delivery mechanism that comprises a switch tongue and roller means combined therewith to constitute a contact device adapted to be traversed by the article to be delivered, an electromagnet to bring this switch tongue into the delivery position, means to energize this electromagnet, means coupled to said roller means to maintain said article firmly in edgewise position when said article is traversing said tongue, and means, under control of said contact device, to keep the electromagnet energized until said contact device has ejected the article conveyed.

2,663,404
SELF-BRAKING CONVEYER DRIVE
Reinhardt Petterson, Whitestone, N. Y., and Leslie G. Weygandt, Jenkintown, Pa., assignors to Hewitt-Robins Incorporated, Buffalo, N. Y., a corporation of New York
Application August 9, 1951, Serial No. 241,092
8 Claims. (Cl. 198—203)



1. In a conveyor drive, the combination of a drive pulley; a holdback pulley on the downstream side of the drive pulley; a takeup between the said pulleys; a belt trained around the pulleys and through the intervening takeup; a constant-speed drive motor; a drive connection between the motor and the drive pulley including a normally engaged clutch adapted to disengage said connection when the drive pulley overruns the motor; a second drive connection between the holdback pulley and the motor including a normally disengaged clutch adapted to engage the said second drive connection when the holdback pulley overruns the motor.

2,663,405
SCREW CONVEYER AND THE LIKE HAVING INTERRUPTED FLIGHTS
Hjalmar S. Messing, New York, N. Y., assignor to American Defibrator Inc., New York, N. Y., a corporation of New York
Application August 16, 1951, Serial No. 242,155
3 Claims. (Cl. 198—213)



1. In an apparatus of the character described, a chamber, a screw feeder rotatively mounted therein, said feeder including a shaft, a flight thereon of gradually increasing radius to reach a maximum closely conforming to the interior diameter of the chamber, a second flight on the shaft, said second flight starting of small radius adjacent to the shaft and gradually increasing its radius to a maximum of considerably less radius than the maximum of the first flight, and with this sequence of flights repeated along the length of the shaft.

2,663,406
TYPOGRAPHICAL DISTRIBUTING MACHINE
Louis Rossetto, Flushing, and Gino F. Squassoni, Corona, N. Y., assignors to Mergenthaler Linotype Company, a corporation of New York
Application September 2, 1950, Serial No. 183,034
15 Claims. (Cl. 199—16)

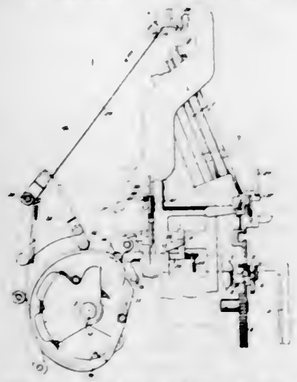
1. In a typograpical distributing machine

equipped with a series of matrix magazines, a shift frame therefor movable upwardly and downwardly to bring a selected magazine into use, a distributor box, a distributor bar, a shifter for advancing the matrices through the distributor box to the distributor bar, a magazine entrance for guiding the matrices released from the distributor bar into the selected magazine, and a lock for preventing the operation of the shift



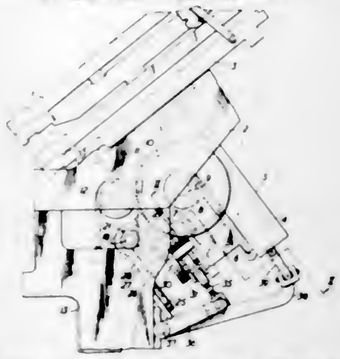
frame, the combination therewith of an electrically controlled element for releasing said lock, an electric circuit for energizing said element, a relay for conditioning said circuit for operation, a thyratron controlled holding circuit for said relay, and means responsive to the presence of a matrix on the distributor bar for controlling the firing of the thyratron to deactivate the relay and thus prevent the energization of the lock releasing element.

2,663,407
SAFETY ATTACHMENT FOR TAPE OPERATED LINE CASTING MACHINES
Paul Hilpman, Garden City, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application October 23, 1951, Serial No. 252,680
3 Claims. (Cl. 199—43)



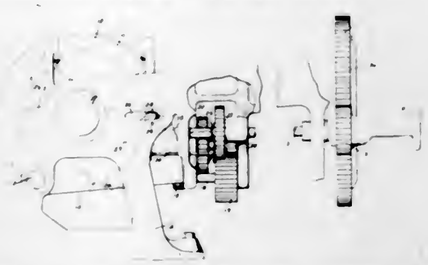
1. In a line casting machine equipped with a second elevator and a pump plunger, the combination therewith of a stop member normally occupying an active position to prevent the complete downward movement of the second elevator, and means actuated by the casting movement of the pump plunger to move the stop member to an inactive position to permit the complete downward movement of the second elevator.

2,663,408
TYPOGRAPHICAL COMPOSING MACHINE
Richard Henry Scott, Hale, and Arthur Staniland Hayward, Altrincham, England, assignors to Linotype and Machinery Limited, London, England, a British company
Application September 1, 1950, Serial No. 182,706
17 Claims. (Cl. 199—45)



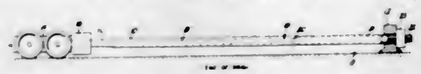
1. A typographical composing machine comprising a column of magazines mounted on a bracket which is adjustable in opposite directions to bring a selected magazine into operative position, a power drive for moving the bracket in both directions, a clutch for connecting and disconnecting the magazine supporting bracket to and from the power drive, a tumbler mounted on the magazine supporting bracket, a parallel motion bar mounted on a fixed part of the machine and engageable by said tumbler for disconnecting said clutch, a plurality of adjustable members mounted on a fixed part of the machine, and means for moving any selected one of said members into the path of the tumbler so as to move the tumbler and parallel motion bar and disconnect the clutch from the power drive upon the arrival of the selected magazine in operative position.

2,663,409
TYPOGRAPHICAL CASTING MACHINE
William B. Abbott, Springfield Gardens, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application July 25, 1950, Serial No. 175,817
14 Claims. (Cl. 199—48)



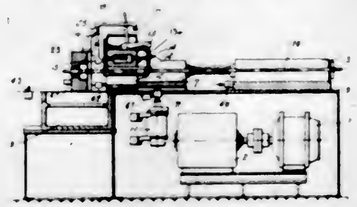
1. In a typographical casting machine, the combination of a mold disk rotatable periodically from one to another position of rest during each machine cycle, and driving mechanism for rotating the mold disk, said driving mechanism comprising an oscillatory driving member operated periodically in accordance with the periodic rotations of the mold disk, and means operated by said driving member at one stroke for imparting a one-quarter rotation to the mold disk from one position of rest and at the following stroke for imparting a three-quarter rotation to the mold disk in the same direction from another position of rest.

2,663,410
MANUFACTURE OF SMOOTHBORE GUN BARRELS
Paul D. Kessler, Silver Creek, N. Y.
Application September 29, 1950, Serial No. 187,561
3 Claims. (Cl. 205—8)



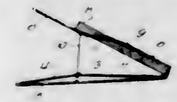
1. The method of producing a smooth bore gun barrel, which comprises inserting a mandrel into a relatively thick walled cylindrical tube, drawing said tube and mandrel through the cylindrical opening of a die which has a diameter smaller than that of said tube so as to contract the tube onto said mandrel and also to elongate the tube therealong, and while the drawn tube and mandrel are still heated due to the heat developed by the displacement of metal during the drawing operation applying an axially directed impact force to withdraw said mandrel from said drawn tube.

2,663,411
DEVICE FOR DRAWING METAL BARS
Jean R. Tschudnowsky, Paris, France, assignor to Compagnie Generale du Duralumin et du Cuivre, Paris, France, a corporation of France
Application November 29, 1950, Serial No. 198,083
5 Claims. (Cl. 205—24)



1. In a device for feeding metal bars into metal working apparatus, a carriage, a base comprising a track along which said carriage may be horizontally linearly displaced, said track having a first end at a metal working position, a gripping head, a vertical slide fixedly carried on said carriage and wherein said head is slidably mounted, a jack mounted on said base and having a vertically displaceable shaft, said jack being positioned so that its shaft is in register with said gripping head when said carriage is in its position at the second end of said track remote from said first end thereof, displacing means adapted to displace said carriage along said track from one end thereof to the other, gripping jaws comprised in said gripping head and adapted to grip metal bars, gripping control means for causing opening and closing of said gripping jaws, locking means adapted to hold said gripping control means in a first position to retain said jaws open, said locking means comprising terminal means positioned adjacent said first end of said track, said locking means being so mounted that upon impact of a bar upon said terminal means said locking means releases said gripping control means from its said first position into a second position to close said jaws, and means comprising a first relay and actuating circuit and contacts therefor actuatable upon arrival of said carriage at the said first end of said track to cause said locking means to hold said gripping control means in its first position and to cause said gripping control means to open said jaws.

2,663,412
PACKET
Michael J. Cerino, Portland, Oreg., assignor to Firm Blade Razor Company, Inc., Portland, Oreg., a corporation of Oregon
Application September 11, 1950, Serial No. 184,180
5 Claims. (Cl. 206—45.21)



1. A packet for packaging articles of manufacture, comprising, in combination with an article to be packaged, a blank of sheet material adapted to be folded transversely to form a back section and an overlying locking section, the locking section having an intermediate opening therein for receiving a portion only of said article therethrough, a tab projecting from the locking section, a cover section connected to the end of the back section opposite the locking section, the cover section being adapted to be folded in between the back and locking sections, the cover section having a transverse slit therein arranged to receive the said tab therethrough, whereby the free end of the tab may be stabilized in contact with the back section to form of said tab a brace supporting the locking section in angular position with respect to the back section for displaying the said article.

2,663,413
CAN AND TUMBLER PACKAGE
Thomas W. Foster, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application August 29, 1950, Serial No. 182,119
1 Claim. (Cl. 206—45.31)



A package comprising two cans having chimes at their opposite ends, a flared top article, and a carton adapted for packaging and displaying the cans and flared top article in a single row, the carton comprising top, bottom and side walls, the top and bottom walls having integral tabs folded inwardly and engaging the chimes of the cans to prevent longitudinal displacement, each of said side walls having a display opening substantially medially thereof and flaps hingedly connected to said side walls at the upper and lower edges of the display openings, said upper flaps being folded inwardly and upwardly and engaging the under side of the flared top of the article received in the carton between said cans to support said article out of contact with the

bottom wall of the carton, said lower flaps being folded inwardly and downwardly to provide a cushioning support for the bottom of said article.

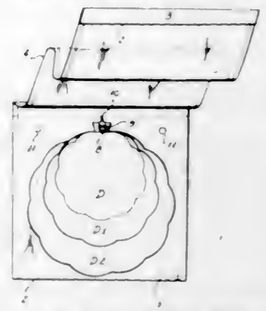
2,663,414
LIPSTICK HOLDER
Sophie Frydlender, Paris, France, assignor to Lancome S. A., Paris, France, a corporation of France
Application March 5, 1952, Serial No. 274,955
Claims priority, application France
March 17, 1951
8 Claims. (Cl. 206—56)



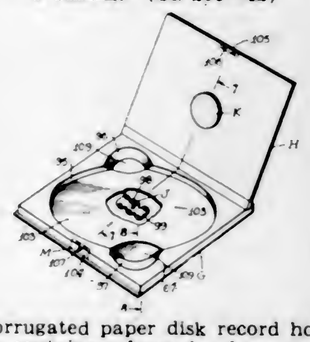
1. In a lip-stick case, a cover having an arcuate end and an opening therein for the passage of the stick, a tubular guiding member secured inside said cover and having a longitudinal guiding channel, a longitudinal slot in said guiding member having a lateral extension located at the end of said slot which is adjacent to the other end of said cover, a tube slidably and rotatably mounted in said guide to move between an inner position within said cover and an outer position in which it projects partially out of said other end of the cover, a hand-grip base secured to the end of said tube adapted to project out of said cover, said tube being provided with a longitudinal slot extending substantially on the whole length of said tube and having a lateral extension located at the end of said slot which is opposed to said hand-grip base, said lateral extension extending on the same side of said slot as the lateral extension of the slot in said guiding member, a stick-holding socket mounted to rotate and slide in said tube, a laterally projecting pin-like member on said socket, adapted to extend and slide in both the slots in said guiding member and in said tube, a slide movable in said guiding channel of said guiding member, an arcuate flap hingedly connected to said slide and adapted to close the opening in the cover for the passage of the stick, and means laterally carried by and projecting from said tube and engageable with said slide upon rotation of said tube to prevent relative longitudinal movement of said tube and said slide.

2,663,415
DOILY PACKAGE
William A. Roehm, Rockville Centre, N. Y., assignor to Royal Lace Paper Works, Inc., Brooklyn, N. Y., a corporation of New York
Application June 21, 1952, Serial No. 294,899
6 Claims. (Cl. 206—57)

1. A package comprising: a backing sheet provided across one end thereof with a finger piece joined to the remainder of the backing by a disruptable line of weakness, a stack of doilies forwardly of said backing and having individual attaching tabs permanently secured to the backing, and a cover sheet marginally permanently secured to both the finger piece and to the opposite end of the backing and separably secured along the lateral margins of the backing, whereby said cover sheet may be stripped from said latter margins of the backing when the finger piece is separated from the backing, to expose the doilies for individual removal, said backing sheet being heavier than said cover sheet.



2,663,416
RECORD HOLDER
Clifford B. Hirsch, Hartford, Conn.
Application January 28, 1948, Serial No. 4,760
6 Claims. (Cl. 206—62)

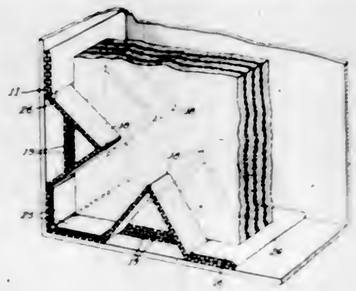


4. A corrugated paper disk record holder and shipping container formed of a rectangular multi-ply top hinged cover member with a central circular sponge rubber pad attached to the inside center thereof, a lower centrally recessed multi-ply base container member, one side edge of which is hinged to said top hinged cover, a central post having a flat plate base, said base being mounted centrally and extending between the plies of said base and the upper end of said post contacting the center of said pad when the holder is closed, said records being held centrally upon said post and being resiliently clamped between said corrugated plies and said sponge rubber pad.

2,663,417
PACKING ELEMENT
Elbert B. Kincaid, Cincinnati, Ohio, assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application August 24, 1950, Serial No. 181,283
4 Claims. (Cl. 206—62)

4. A packing element comprising a substantially oblong strip of corrugated paperboard cut

and scored to provide two panels spaced apart lengthwise of said strip, a pair of straps extending between said panels at opposite sides of said strip severed therefrom at their inner edges and respectively attached to the inner edges of said panels along transverse fold lines, said straps being spaced apart transversely of said strip and folded upward providing substantially inverted V-shaped elements spaced apart transversely of said strip and having downwardly diverging arms, a first flap integral with one of said panels extending therefrom substantially in the plane thereof and underlying the area between said V-shaped elements, a second flap integral with the other of said panels extending therefrom in



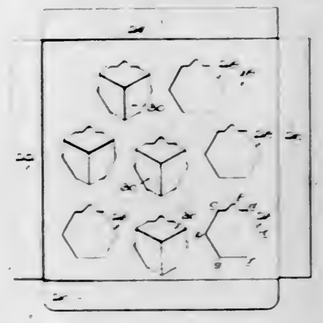
underlying relation to the area between said V-shaped elements and seating on the upper face of said first flap, and a tongue member separate from said arms attached at one end to one of said panels along a transverse fold line, said tongue member having a length materially greater than twice the thickness of said strip and being folded over between said V-shaped elements, the arms of said V-shaped elements and said tongue having cooperating means effective for restraining said arms against movement away from each other, said tongue seating on the upper face of said second flap providing therewith and with said first flap a cushion comprising three thicknesses of the paperboard of said strip.

2,663,418
PERSONALIZED PICTURE PLAYING CARDS
Edward Grunwald, New York, N. Y.
Application February 14, 1951, Serial No. 210,959
3 Claims. (Cl. 206—62)



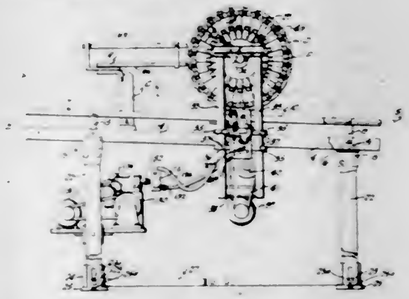
1. The combination of a light sensitized playing card and envelope comprising, a playing card containing a light sensitive coating on one side thereof, and an envelope including an opaque wall and an opposite transparent wall, said card being received in the envelope with the light sensitive side adjacent said opaque wall, and a layer of adhesive across the top of said opaque wall and secured to said card to prevent entry of light therein.

2,663,419
CUBE-SUPPORTING PANEL
Hubert Velman Bolding and Ernest G. Gowens, Jeffersonville, Ind., assignors to The Bradley & Gilbert Company, Louisville, Ky., a corporation of Kentucky
Application April 10, 1952, Serial No. 281,694
2 Claims. (Cl. 206—79)



1. A display for a cube comprising a planar panel of flexible material such as cardboard or the like having an equilateral hexagonal opening therein with a notch at substantially the midpoint of one of the sides and a cube so disposed within the opening that the plane of the panel passes through the geometrical center of the cube and similar and equal portions of the body of said cube are disposed on opposite sides of said plane, oppositely disposed sides of said opening bearing against oppositely disposed faces of said cube and opposite apices of the opening lying respectively closely adjacent substantially the midpoints of diagonally oppositely disposed edges of the cube.

2,663,420
DISCHARGE DEVICE FOR CAN ASSORTING MACHINES
George J. Palmer, Long Beach, Calif.
Application February 28, 1949, Serial No. 78,813
8 Claims. (Cl. 209—74)



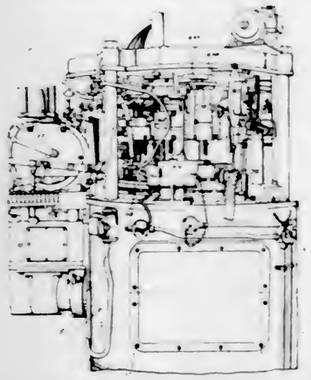
1. A rejecting device which includes: two laterally spaced rotatably mounted disks between which a plurality of cans may move without interruption; means for rotating said disks; a plurality of spring loaded pins slidably supported in a transverse position on each of said disks; means to hold said pins in a non can engaging position; means to actuate two of said pins which are oppositely disposed to a can engaging position; and means to retract said two can engaging pins to a non-can engaging position after said rejected can has been raised above the horizontal plane in which it was engaged.

2,663,421

LOADING MACHINE FOR SHELLS, INCLUDING AUTOMATIC INSPECTION MEANS

Warren S. Reynolds, Westport, John R. Turner, Stratford, and Leon C. Frandsen, Trumbull, Conn., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware

Application July 14, 1948, Serial No. 38,588
13 Claims. (Cl. 209—82)



1. An ammunition loading machine comprising shell transfer means arranged to cause shells carried therein to be successively positioned at a plurality of spaced stations; reject pins on said shell transfer means having a raised inactive position and a depressed active position, there being one of said pins corresponding to each shell carried by the transfer means; inspection means at certain of said stations arranged to inspect said shells and to move to depressed position the reject pin corresponding to any improperly assembled shell; means at a reject station actuated by engagement with a depressed reject pin to remove the improperly assembled shell from the transfer means; closure applying apparatus at a station following the reject station to apply an end closure to a properly assembled shell; and means at said station following the reject station also actuated by a depressed reject pin to temporarily uncouple said closure apparatus and thereby prevent the application of a closure to that portion of the transfer means from which the improperly assembled shell had been removed.

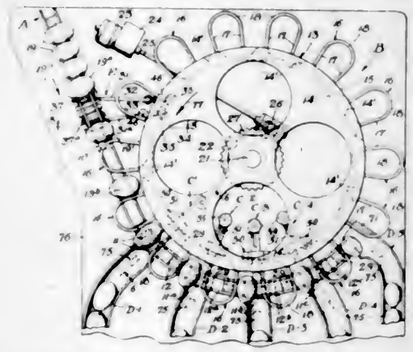
2,663,422

EGG WEIGHING AND GRADING APPARATUS

Orval Parker, Canoga Park, Calif.

Application October 17, 1950, Serial No. 190,529
13 Claims. (Cl. 209—121)

5. In an egg grading apparatus, a track including an inclined straight section and an arcuate section tangent thereto and extending in a horizontal plane from the lower end thereof; a conveyor wheel including a hub and a plurality of fingers projecting radially therefrom over said arcuate track section in the median horizontal plane of the eggs supported on said arcuate track section, said fingers each having its sides diverging radially outwardly and having a rounded tip margin tangent to said sides at the area of maximum width thereof; means mounting said conveyor wheel for rotation of said fingers in said median plane; a series of weighing units each including a short section of said arcuate portion of the track having a length slightly greater than the width of the eggs to be weighed, said weighing units operating to deliver the eggs out of the apparatus at positions corresponding to selected weight grades, said conveyor fingers each having a substantial width such that its trailing side will hold back the egg that is being moved by the following conveyor finger, so as to maintain adequate spacing between successive eggs to prevent two eggs simultaneously contacting a single one of said short track sections; means for rotating said conveyor, and means operating in timed relation to said rotating means to hold back a column of eggs on said inclined track section and to deliver said eggs one by one to said arcuate track section with each egg first contacting the rounded tip of a respective conveyor finger and sliding smoothly from said rounded tip into contact with the leading side of the respective finger as the egg travels from the inclined track section onto the arcuate track section.



2,663,423

TESTING SCREEN

Delbert Wheeler, Topeka, Kans.

Application December 14, 1951, Serial No. 261,733
10 Claims. (Cl. 209—237)



1. A testing device comprising a base, a vibratory carriage, support means mounting said carriage upon said base, actuating means for imparting a vertical circular vibratory motion to said carriage, a turntable journaled on said carriage for movement about a vertical axis, screens supported by said turntable, means responsive to vibratory movement of said carriage for imparting rotary movement to said turntable.

2,663,424

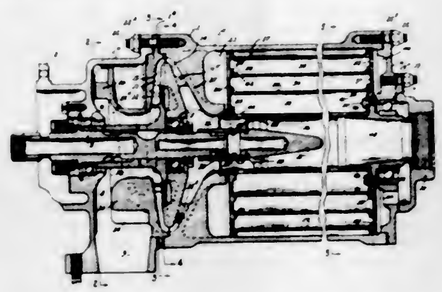
CENTRIFUGAL OIL FILTER CONSTRUCTION

George T. Bynum, Liverpool, N. Y., assignor to Aircooled Motors, Inc., Syracuse, N. Y., a corporation of New York

Application November 19, 1951, Serial No. 256,991
11 Claims. (Cl. 210—68)

1. An oil filter construction comprising a fixed casing, a power actuated shaft in the casing, an impeller mounted on the shaft to rotate therewith, a centrifugal filter drum also mounted in the casing coaxial with the shaft and a coupling

between the drum and the shaft whereby the drum is rotated by the shaft, the casing being formed with transverse partition means forming an entrance compartment for the oil, a compartment for enclosing the impeller, and passages connecting the entrance compartment and the impeller compartment and connecting the impeller compartment and the filter drum, the drum having a plurality of concentrically spaced apart cylindrical members forming concentric filter chambers, the innermost of said members



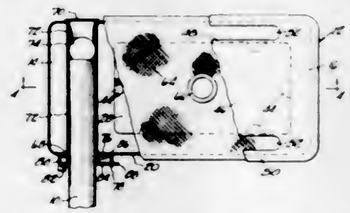
forming a coaxial main outlet passage extending from said impeller compartment axially of the drum from end to end thereof, the outermost of said cylindrical members being imperforate and the remaining ones of said members being apertured to permit the flow of oil from said outlet passage through said filter chambers, said outer chamber being formed with a discharge aperture, and the casing being formed with an outlet passage arranged to receive the oil from said discharge aperture and direct it inwardly into the main outlet of the drum.

2,663,425

FLOATING LIQUID INTAKE

Willis E. Haselwood, Elkhart, Ind., assignor to Taylor Sales Engineering Corporation, Elkhart, Ind., a corporation of Indiana

Application August 20, 1949, Serial No. 111,551
9 Claims. (Cl. 210—97)



1. A floating liquid intake device comprising a housing formed of an upper part and a lower part and having an inlet opening in said lower part and outlet opening in said upper part, a cup-shaped member marginally secured to said upper part spaced from the sides thereof to define a sealed buoyant chamber, a conduit leading from said outlet opening, and a cup-shaped screen spanning said housing and continuously marginally clamped between the margins of said housing parts, said screen including an off-set marginal portion of inverted substantially U-shape in cross-section surrounding said cup-shaped member.

2,663,426

PROCESS FOR IMPROVING ALCOHOL QUALITY

Samuel W. Wilson and Elaine T. Delaune, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 13, 1950, Serial No. 167,916
9 Claims. (Cl. 210—122)

1. A process for improving the odor characteristics of a water-soluble alcohol contaminated by high-boiling hydrocarbon and sulfur compounds which make the alcohol malodorous and which is prepared by hydration of a mono-olefin, which comprises intimately contacting the contaminated malodorous alcohol with sand in the absence of other purifying agents at a space velocity in the range of 0.5 to 50 volumes of the alcohol per volume of sand per hour, whereby the alcohol is rendered substantially less malodorous.

2,663,427

INSTALLATION FOR DEWATERING SLIMES

Erich Riedel, Dusseldorf, Germany, assignor to Brueckenbau Flender G. m. b. H., Dusseldorf, Germany, a German corporation

Application May 17, 1950, Serial No. 162,535
Claims priority, application Germany August 5, 1949
4 Claims. (Cl. 210—149)



1. A device for dewatering coal slimes and comprising an inclined enclosed dewatering tower having parallel side walls, a bottom inclined at an angle greater than the angle of repose of the coal slimes, a vertical wall at its upper end and at its lower end, said upper end wall having therein charging openings for the coal slimes, the lower end portion of said lower end wall having a closeable discharge opening for the dewatered slimes, the lower end portion of said inclined bottom having a water discharge opening, a stationary dewatering screen supported upon and spaced above said inclined bottom, a top wall secured to the upper edges of said side walls and said vertical end walls, and a second screen spaced below said top wall and extending parallel thereto.

2,663,428

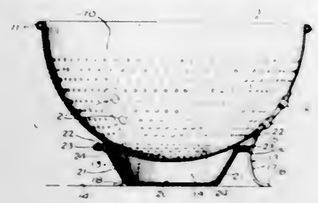
COLANDER

Hortense E. Hoagland, Flint, Mich.

Application June 30, 1950, Serial No. 171,371
6 Claims. (Cl. 210—155)

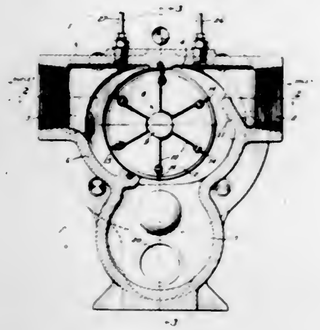
5. A colander comprising a substantially hemisphere-shaped strainer bowl, a plurality of legs

of yieldable material fixed to said bowl and extending downwardly and outwardly therefrom and located outwardly of the vertical center thereof, a circular pan of considerably less diameter than said strainer bowl beneath said bowl and inwardly of said legs, and an annular rolled edge on the upper portion of the circular wall of said pan and of a diameter greater than that of



said wall, said yieldable legs detachably engaging the periphery of said annular rolled edge to clamp the upper portion of the pan against the exterior surface of the strainer bowl upon lowering the strainer bowl on the pan to a position whereby the lower ends of the legs on the strainer bowl are in substantially the same plane as the plane of the bottom of the pan.

2,663,429
LIQUID OR GAS SELF-CLEANING FILTER AND STRAINER
Le Roy T. Bossard, Tulsa, Okla.
Application February 28, 1950, Serial No. 146,743
4 Claims. (Cl. 210—167)



1. A filtering device comprising a housing having an inlet and an outlet and defining a passageway from said inlet to said outlet for material to be filtered, a rotatable filter element having radially projecting filtering surfaces, said filter element being so positioned in said housing that the filtering surfaces are in obstructing relation to said passageway, said element being journaled in said housing and having its axis of rotation substantially on a horizontal plane including the bottoms of said inlet and outlet, and said inlet near its outlet end having its bottom inclined upwardly toward the outlet to decrease the depth of said inlet and raise the center of gravity of the incoming stream, whereby the force of the incoming stream may be directed toward the outer edges of said rotatable element filter surfaces, said inlet diverging widthwise in the region of the depth-reduced portion thereof to maintain the cross-sectional area of the inlet substantially constant throughout.

2,663,430
FILTER
Russell H. Curtis, St. Charles, Ill., assignor to Hawley Products Company, St. Charles, Ill., a corporation of Delaware
Application March 17, 1949, Serial No. 81,978
1 Claim. (Cl. 210—169)



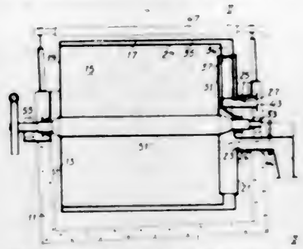
A replaceable filter unit for liquid fuel systems comprising a casing of generally cylindrical shape having a base portion at one end thereof provided with an opening, a shoulder portion at the opposite end and a side wall portion connecting said shoulder and base portions, a top for said casing having an opening therein and provided with a plurality of members extending beyond the sides of the casing and adapted to position the filter unit in a fuel system, a filter element of porous integrally accreted molded fibrous material adapted to fit inside said casing in spaced relation to the walls thereof to prevent the passage of solid materials between the openings in said top and said base, said filter element being formed as a hollow member with an opening at one end and the other end closed and a flange around the open end adapted to seat on the shoulder portion of said casing, and means adapted to hold said top in place with the flange of said filter element clamped between said top and the shoulder of said casing.

2,663,431
FILTER PLATE SCREEN CLIP
Frank Howard Clarke, Pearl River, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application August 26, 1950, Serial No. 181,628
2 Claims. (Cl. 210—195)



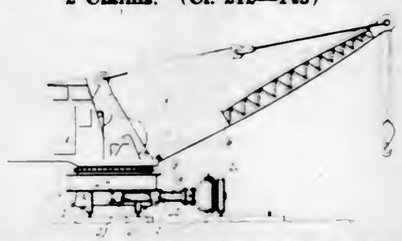
2. A filter plate frame assembly comprising an open interior flat-faced filter plate frame, at least one filter plate frame screen, the face of said filter plate frame extending from the inner edges of said frame having a recess therein, grooves in the inner edges of said filter plate frame, retaining clips integral with said screen having camming surfaces coacting with said grooves whereby the filter plate screen is positively drawn into said recesses in said filter plate frame.

2,663,432
INCLINED ROTARY VACUUM FILTER
Rolf Jomar Johansen, Karlstad, Sweden, assignor to Aktiebolaget Kamyr, Karlstad, Sweden, a company of Sweden
Application May 19, 1950, Serial No. 162,939
Claims priority, application Sweden May 23, 1949
8 Claims. (Cl. 210—202)



1. In a vacuum filter, a rotary drum mounted on a substantially horizontal axis of rotation and comprising a cylindrical perforated shell and suction compartments having a uniform cross section and extending parallel to the axis of rotation along the inner side of said shell, said drum being mounted in its working position with one end in a higher position than the other end relative to the horizontal, and suction compartment outlets in the lower end of the drum, whereby all suction compartments slope towards their outlet ends.

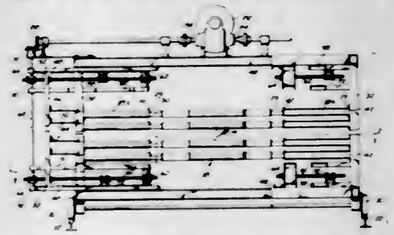
2,663,433
MOBILE VEHICLE WITH LOAD BOOM AND MOBILE STABILIZER
Joseph A. Le Clair, Lewiston, Maine
Application April 15, 1950, Serial No. 156,063
2 Claims. (Cl. 212—145)



2. A mobile crane comprising a body, a turntable on the body rotatable about a vertical axis, a boom pivoted to the turn-table so as to be raised and lowered, hoisting mechanism on the turn-table connected with the boom for raising and lowering it and for suspending loads on the boom, a beam secured to the crane with provisions for adjustment so as to extend more or less far laterally from the crane, a wheel holder mounted for vertical movement on said beam at the outer end thereof, a wheel rotatably mounted on said holder to rotate about an axis parallel to the axis of said beam, and means carried by said beam for adjusting the wheel and holder vertically.

2,663,434
SHEET CHARGING APPARATUS
Alfred Frank Pierce, Tacoma, Wash., assignor to American Manufacturing Company, Inc., Tacoma, Wash., a corporation of Washington
Application May 23, 1949, Serial No. 94,774
7 Claims. (Cl. 214—1)

1. Sheet-charging apparatus for loading multiplaten presses and the like, comprising a plurality of generally horizontal sheet supports mounted in vertically spaced relation to enable inserting sheets into the spaces between said supports at one end of the apparatus and discharging of said sheets from the other end thereof into the spaces between press platens, said supports having vertically registering openings therein located generally intermediate opposite sides thereof and extending from the sheet-input ends thereof toward the sheet-discharge ends thereof, and sheet-pusher means including a pair of upright bars, a plurality of parallel pusher arms projecting horizontally from one side of each of said bars in vertical registry with the spaces between said supports to engage the edges of sheets supported on such supports, respectively, two pairs of upper and lower L-shaped guides located respectively above and below the plurality of sheet supports, such L-shaped guides having legs extending substantially from the sheet-discharge ends of the supports to the sheet-input ends thereof, thence laterally out-

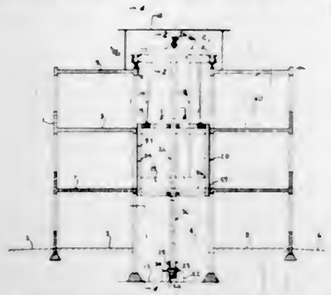


ward to corresponding opposite side locations spaced appreciably outward beyond the sides of said supports, respectively, cooperating guide means carried by upper and lower portions of said bars and engaging said upper and lower guides, respectively, of one of said pairs of guides, to support said bars upright and guide the same for movement along said guides between laterally retracted positions of said bars at opposite sides of the supports and sheet-discharge positions of said bars at the sheet-discharge end of said supports, said guide means maintaining said pusher arms substantially parallel to the section of said guides being engaged by said guide means during guided movement thereof along said guides, the sheet-engaging ends of said pusher arms projecting materially outward beyond the sheet-discharge end of said sheet supports in the sheet-discharge positions of said bars, and coacting means operable to move said bars conjointly between corresponding extreme positions thereof.

2,663,435
CAR PARKING SYSTEM AND STRUCTURE
William Mack Eliot, Houston, Tex.
Application June 18, 1948, Serial No. 33,903
3 Claims. (Cl. 214—16.1)

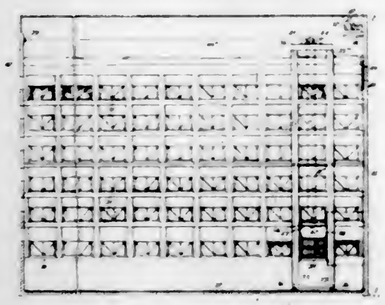
1. A multi-storied storage structure having a load receiving and delivery area, traction means supported by said structure, an elevator suspended by said traction means, a flexible vertical plate directly and rigidly connected to the forward end of said traction means and a flexible, vertical plate directly and rigidly connected to the rear end of said traction means, with the plate surfaces of said plates extending in a substantially vertical plane and substantially parallel to a plane through the axis of travel of said traction means, an elevator guide at each end of said traction means along the axis of traction means travel, yoke means connecting said guides to said plates, and way means extending sub-

stantially parallel to the path of travel of said traction means for receiving said guides for horizontal motion therealong and to permit relative vertical motion thereof, said traction means and elevator serving respectively to move loads,



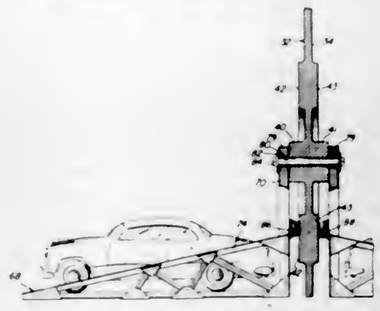
such as automobiles, horizontally and vertically from area to storage and from storage to area, the flexibility of said plates on said traction means permitting movement of said guides in a plane transverse to the longitudinal axis of said traction means.

2,663,436
SEMIAUTOMATIC PARKING GARAGE
Virgil C. Bowser, Silver Spring, Md., assignor to Bowser Engineering Company, Baltimore, Md., a corporation of Maryland
Application July 12, 1949, Serial No. 104,239
13 Claims. (Cl. 214—16.1)



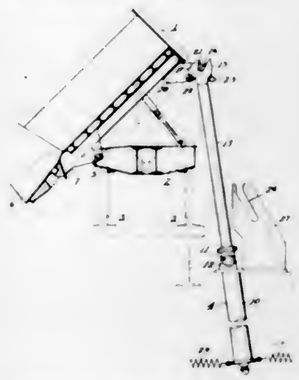
11. In combination with a storage building for automobiles having a plurality of floors and parking stall locations, and provided with a hatchway extending through said floors and lengthwise thereof, a traveling crane supported at the top of said hatchway and having an elevator guide frame suspended therefrom in a central position of the hatchway, an elevator car carried in said guide frame, drive means carried by the crane for effecting lateral movement of said crane, a second drive means for effecting vertical movement of the elevator, a control panel mounted in said elevator, electrical wiring circuits associated with said panel, means located on said panel to simultaneously activate said first and second mentioned drive means through said circuits, each of said means on said panel serving to initiate movement of said car to a particular stall location, selector means in each of said circuits to regulate each of said drive means in order to position the elevator car at a predetermined parking stall location, illuminator signal means associated with each of said means on said panel, and additional circuit control means associated with said panel for controlling illumination of each of said signal means to indicate the parking stall location of an automobile to be delivered, said additional circuit control means comprising parking ticket stub compartments having contacts for making and breaking a circuit including said signal means operable by insertion of parking ticket stubs into said compartment.

2,663,437
GARAGE, AIR-RAID SHELTER, OR THE LIKE
Fred Caiola, Bronx, N. Y.
Application June 29, 1951, Serial No. 234,173
6 Claims. (Cl. 214—16.1)



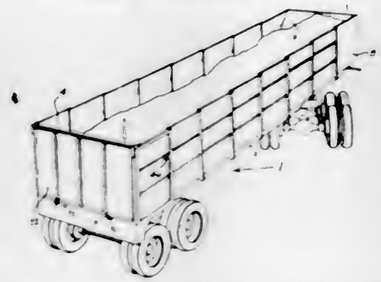
1. In a garage, air-raid shelter or the like, a structure including a plurality of floors having openings therein, and an elevating mechanism comprising a ring rotatably supported in a vertical plane and extending through said floors, means for intermittently rotating said ring, load-carrying platforms arranged in pairs with the platforms in each pair extending laterally from said ring on opposite sides thereof, and means for pivotally suspending the platforms of each pair from said ring, whereby as said ring is intermittently rotated the pairs of platforms successively pass through the said openings in said floors and pairs of platforms are brought into alignment with the various floors.

2,663,438
CAR DUMPER
Frederick S. McCune, Pittsburgh, Pa.
Application August 2, 1951, Serial No. 240,016
2 Claims. (Cl. 214—64)



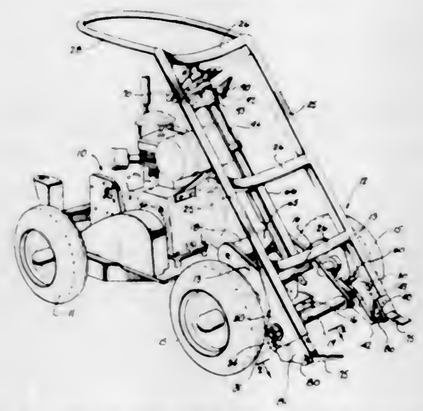
1. A car dumping mechanism for a car having a tiltable body comprising a body lifting mechanism independent of the car and terminating in a coupling member provided with an upwardly opening recess and a rounded projecting shoulder, a first projecting member on the car body adapted and arranged to engage the recess in the coupling member and a second projecting member on the car body adapted and adjusted to engage the rounded shoulder of the coupling member as the car body is tilted and prevent the first projecting member from pulling out of the coupling member.

2,663,439
TELESCOPIC DUMPING TRUCK
Arthur R. Phelps, Portland, Oreg.
Application November 28, 1950, Serial No. 197,880
7 Claims. (Cl. 214—83.24)



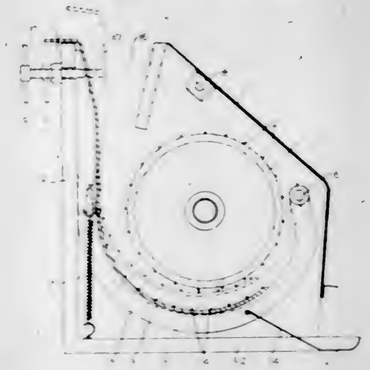
1. In combination with a motor vehicle having a selective speed transmission and carrying a plurality of telescopic dump body sections mounted for longitudinal movement into a nested relationship, a tail gate movably mounted upon the rearmost body section and having a catch means selectively for latching and unlatching the same, and actuation means engageable serially with said catch and with the most forward body section to unlatch said tail gate and nest said body sections, sequentially, said actuation means being operatively joined to and driven by said selective speed transmission to correlate the rate of nesting to the vehicle ground speed when desired.

2,663,440
MOTORIZED HAND TRUCK
Rodney Jackson, Seattle, Wash., assignor to Paul J. Isaacson and F. T. Isaacson
Application October 8, 1951, Serial No. 250,255
9 Claims. (Cl. 214—147)



1. A truck of the character described comprising a chassis, a cross-shaft fixed in said chassis, a load carrier frame having opposite side members formed with arcuate slots, at distances spaced from its lower end and containing said cross-shaft therein, and against the upper ends of which slots said shaft is adapted to engage for the tilting adjustment thereon of the load carrier frame between a rearwardly inclined, load carrying position and a substantially upright load pick-up position, lugs fixed to the load carrier frame at its lower end, arms mounted on the said chassis and extended to positions for the engagement therewith of said lugs when the load carrier frame is adjusted to said upright load pick-up position, and for the pivotal support of the said load carrier frame thereon for forward tilting, free of support by the cross-shaft; said arcuate slots being centered about the axial line of said lugs, and adapted to limit the extent of forward tilting of the load carrier frame as supported by said lugs.

2,663,441
STRIPPING OF EXPLOSIVE CARTRIDGES
Dugald Mitchell, Saltcoats, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application January 7, 1952, Serial No. 265,319
Claims priority, application Great Britain March 8, 1951
12 Claims. (Cl. 214—304)

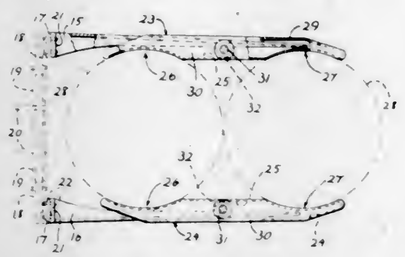


3. Apparatus comprising in combination a rotatable roller and a stationary plate in which apparatus the stationary plate forms with the roller an entry end and an exit end and a spacial distance decreasing gradually from the entry end to the exit end, the roller has projections positioned thereon substantially parallel to its longitudinal axis, and the stationary plate has projections parallel to those on the roller and on the side of the plate facing the roller.

2,663,442
SIDE GRIP DRUM HANDLING MEANS FOR LIFT TRUCKS
Leslie G. Ehmann, Portland, Oreg., assignor to Hyster Company, Portland, Oreg., a corporation of Oregon
Application August 10, 1950, Serial No. 178,742
3 Claims. (Cl. 214—655)

1. In a drum handling structure for applying pressure on the side faces of a drum, the combination of a pressure arm, a pressure plate member pivotally mounted on an axis on said arm and having recesses in its pressure face at opposite sides of said axis serving as bearing face portions in spaced relationship to each other lon-

gitudinally of the arm for applying pressure on two drums arranged side by side, said pressure plate member comprising a strip of sheet metal bent into shape to provide the said drum re-



ceiving recesses at opposite sides of said axis, and the outer end portion of said strip being bent backwardly along the strip and secured in fixed position with respect to said flanges for strengthening the pressure plate member.

2,663,443

CARRIER FOR INDUSTRIAL ELEVATING TRUCKS

Frank J. Schenkelberger, North Olmsted, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a corporation of Ohio

Application April 18, 1951, Serial No. 221,638
11 Claims. (Cl. 214—731)



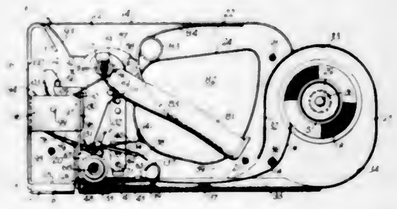
1. A truck for handling and transporting materials having substantially vertical guides, a device movably supported on said guides and power mechanism for raising said device, of a carrier supported on said device for movement therewith, said carrier comprising a transversely disposed frame, horizontally disposed guide means on said frame, load carrying members having legs mounted on said guide means, spaced, horizontally alined, vertically disposed reeving devices mounted on said frame, an endless flexible member arranged to reeve about said devices to provide therebetween upper and lower runs, connections between said legs and said endless member, and cylinder-piston elements disposed in a plane parallel to and between the runs of said endless member and adapted to be connected to a valve controlled fluid pressure system, one of said elements being mounted on said frame and the other element being connected to one of said legs for simultaneously moving the latter said endless member and said other leg.

2,663,444

TAPE DISPENSER AND APPLICATOR

Irving Kaplan, Flushing, N. Y.

Application September 7, 1950, Serial No. 183,622
10 Claims. (Cl. 216—25)



1. Tape dispenser and applicator comprising a main casing, a horizontal pivot in the front thereof, a handle within said casing extending rearwardly from said pivot and into an aperture in said casing and adapted to be raised and lowered about said pivot, the top of said casing constituting a handhold, a lever extending downwardly from said pivot, said handle being fixed thereto, a rack pivoted to said lever, a driving roll for said tape, a gear fixed to said driving roll and adapted to mesh with said rack, a roll support at the rear of said handle in said casing, means for guiding tape to said driving roll, a reciprocatable plunger and knife in front of said driving roll, said driving roll adapted to feed said tape into the path of said plunger and knife.

2,663,445

REINFORCING PATCH APPLICATOR

Anthony Perrotti, Brooklyn, N. Y.

Application July 23, 1952, Serial No. 300,474
3 Claims. (Cl. 216—61)



1. An applicator for aiding in the placement of reinforcing gummed patches to perforated loose-leaf sheets of paper, comprising in combination with patch receiving guide members, a reservoir member, a moisture holding plug attached to and closing one end of the reservoir, an affixing plug attached to and closing and sealing the other end of the reservoir, each of said plugs being provided with means to hold a guide member thereto during non-use periods of the applicator.

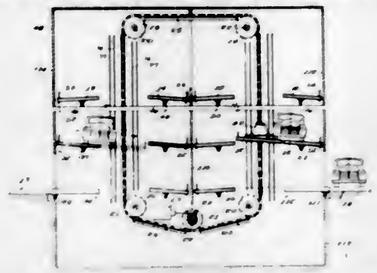
2,663,446

MOTOR VEHICLE PARKING ELEVATOR

Fred Romain, Chester, Mont.

Application November 9, 1949, Serial No. 126,383
7 Claims. (Cl. 214—16.1)

1. A motor vehicle storage frame comprising spaced pairs of tiers of vehicle receiving platforms, an elevator having spaced vertically disposed chains with said chains positioned between a pair of the said tiers of platforms, chains supporting elements journaled in the frame, a vehicle carrying tray carried by the chains of the elevator, spaced endless conveyor belts trained over rollers on the tray, spaced endless conveyor belts also trained over rollers on the platforms means pivotally mounting the platforms in the frame, a housing enclosing the frame in which the elevator and platforms are mounted, an entrance platform pivotally mounted in said frame whereby vehicles are delivered to the tray at the lower end of the elevator, means for actuating one of the platforms and also the tray of the elevator as the tray reaches the platform whereby a ve-



hicle on the tray is delivered to the platform, said spaced endless conveyor belts adapted to deliver a vehicle, selectively, from a platform to the tray of the elevator or from the tray of the elevator to a platform.

2,663,447

CLOSURE-CAP DEVICE FOR RECEPTACLES

Frank Westcott, Harpenden, England, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application February 26, 1948, Serial No. 11,222
Claims priority, application Great Britain April 11, 1947
9 Claims. (Cl. 220—14)



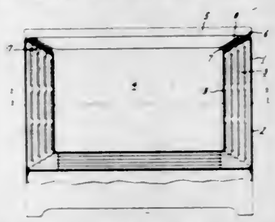
4. A closure-cap device for a receptacle having an outer curved casing with a filler aperture and a filler spout terminating adjacent but short of said aperture, comprising a lever member pivoted inside said casing adjacent the edge of said aperture and having an apertured outer surface which in the closed position lies flush with the surface of said casing, a closure disc carried by said lever member and adapted to close the end of said filler spout when the device is in the closed position, a latch member pivoted on said lever member cooperating fulcrum means on said latch and lever, and lock means on said latch and filler spout to lock the same to the filler spout in the closed position, common spring means between and for holding said closure-disc and said latch member in the closed and locked position respectively, a portion of said latch member protruding through the aperture in said lever member but lying substantially flush with the outer surface thereof and adapted when pressed inwardly from the outside to compress said common spring means and to pivot on said lever to release said latch member from locking engagement with the filler spout.

2,663,448

INSULATING STRUCTURE AND METHOD OF ASSEMBLING

William G. Spiegelhalter, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application December 23, 1950, Serial No. 202,528
15 Claims. (Cl. 220—15)



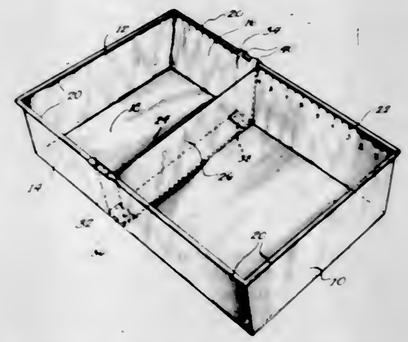
1. An insulating structure for a spaced wall cabinet comprising a plurality of concentric envelopes adapted to be disposed between the spaced walls thereof, each of said envelopes including a plurality of sheets of a pliant material of high reflectivity arranged in end to end relationship, a plurality of hollow inflatable spacers arranged in spaced relationship and transversely with respect to said sheets, each of said spacers having a plurality of spaced slots therein, each of said sheets having a tab at each end received within a corresponding one of said slots, the tabs of adjacent sheets of each envelope overlapping each other and being secured to each other, and means for affording deflation of said spacers to partially collapse said structure for facilitating insertion thereof in the cabinet.

2,663,449

VARIABLE VOLUME BAKING DEVICE

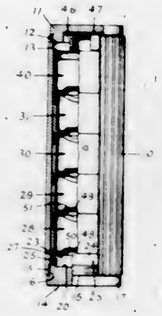
Dorothy Delle Smart, Highland Park, Ill.

Application November 6, 1951, Serial No. 255,021
3 Claims. (Cl. 220—22)



1. A variable volume baking device comprising a baking pan having a bottom, end walls, and side walls, said end and side walls being smooth and continuous, said walls terminating at their upper ends in rolled edges, and a removable partition frictionally held between opposed walls of said baking pan, said partition including a front wall, a base portion extending rearwardly from said front wall, side wall portions extending rearwardly from said front wall, and a pair of spaced guide hooks carried by each of said partition side walls at the upper margin thereof and frictionally engaging the rolled edges of the walls of the baking pan between which the partition is inserted.

2,663,450
COMPARTMENTED CONTAINER
Emile Auguste Bourcart, New York, N. Y.
Application November 19, 1951, Serial No. 257,124
3 Claims. (Cl. 220—23)



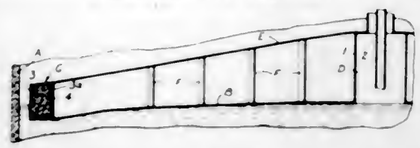
1. A kit for cosmetics and the like comprising a tubular shell, closure members detachably connected to the opposite ends of said shell, a plurality of separate containers in said shell, each container having a hollow cup-like body and a detachable lid fitting tightly on said body, and cooperating interfitting recesses and projections on said bodies and lids to hold said containers in a stack upon removal from said shell, the uppermost container in said stack having a narrow threaded neck and a threaded closure cap for engaging said neck in liquid-tight relation, said containers fitting snugly and slidably in said shell and between said end closures to prevent shifting and rattling of said containers.

2,663,451
CLOSURE PLUG
Chandler P. Yarnall, Merchantville, N. J.
Application October 10, 1951, Serial No. 250,743
2 Claims. (Cl. 220—24)
(Granted under Title 35, U. S. Code (1952), sec. 266)



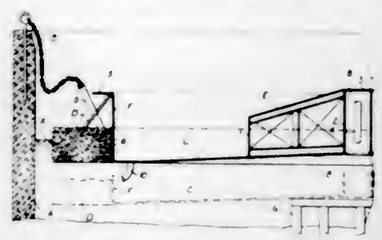
1. A hollow, resilient closure plug having a frustro conical form and providing a tapered body consisting of a resilient annular wall tapering throughout its axial length and defining a cavity, said cavity extending axially from the wide end of said tapered body and terminating in a substantially flat, resilient closure wall at the narrow end of said body, said closure wall having a pull tab extending therefrom, said pull tab being positioned wholly within said cavity, there, further, being a radially outwardly extending, resilient, annular flange at the wide end of said body, said annular wall being provided adjacent the narrow end of said body with a plurality of annular fins, each of said fins, having a cross-sectional shape of the form of an isosceles triangle with the base thereof being adjacent said annular wall, with the perpendicular bisector thereof being perpendicular to said annular wall, and with the peripheral edges of said fins conforming to the taper of said body.

2,663,452
FLOATING ROOF OR COVER FOR LIQUID STORAGE TANKS
John H. Wiggins, Chicago, Ill.
Application August 29, 1950, Serial No. 182,002
2 Claims. (Cl. 220—26)



1. A floating roof for liquid storage tanks, comprising a flexible deck portion formed by a substantially flat, limber diaphragm that floats on the liquid in the tank, a vertically-disposed, tubular member at the center of the roof attached to said deck portion and being open at its lower end so that gases on the underside of the deck portion can escape upwardly into said tubular member, an upwardly-projecting rim at the peripheral edge of said deck portion interlocked with a rigid, annular load member formed of concrete or the like that is cast or molded on said rim so as to sink the peripheral portion of the roof into the buoyant liquid a sufficient distance to cause said deck portion to normally assume an inclined position sloping upwardly and inwardly towards the center of the roof, a flexible weather roof attached to the upper end of said rim and to the upper end of the tubular member at the center of the roof and disposed so as to prevent rain, snow and the like from falling on said deck portion, and vertically-disposed, rigid thrust members interposed between the deck portion and the weather roof so as to utilize the weight of the roof to maintain said deck portion in a predetermined shape or form.

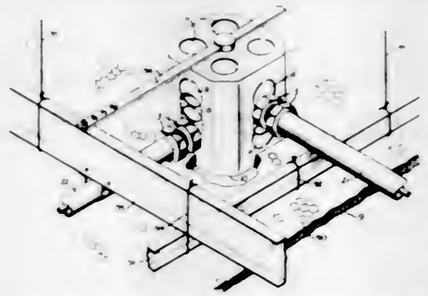
2,663,453
FLOATING ROOF FOR SEWAGE DIGESTING APPARATUS
John H. Wiggins and John W. Allen, Chicago, Ill.; said Allen assignor to said Wiggins
Application August 31, 1950, Serial No. 182,444
4 Claims. (Cl. 220—26)



1. An apparatus, comprising a tank that is adapted to hold a liquid or liquid-like substance that is being stored or processed, a floating cover for said tank comprising a gas collecting chamber at approximately the center of said cover having provision for permitting gases on the underside of the cover to flow into said chamber, a flexible deck portion extending radially from said gas collecting chamber, a single, annular-shaped metal rim projecting upwardly at the periphery of said deck portion and joined to the peripheral edge of same by a liquid-tight joint, and an annular-shaped load member constructed of concrete or the like, cast or molded in situ on the outer face of said rim and interlocked with

same so as to maintain said deck portion in an inclined position sloping upwardly and inwardly towards the center of the roof, said load member being located outside of or beyond said rim, whereby part of the weight of said load member is supported by its own submersion in the liquid on which the cover floats.

2,663,454
OUTLET BOX WITH OVERLAPPED KNOCKOUTS
Oscar J. Olson, Seattle, Wash.
Application January 30, 1950, Serial No. 141,241
9 Claims. (Cl. 220—27)



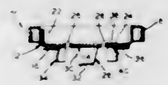
8. An electrical outlet box having side walls and an end wall, and an open end, at least one wall being fractured substantially in a pattern of at least three successively overlapping circles, arranged in a pattern such that two of the circles are mutually tangent, and a third circle encloses and is centered at the point of tangency.

2,663,455
CAN
Harry Sebell, Syracuse, N. Y., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application April 27, 1951, Serial No. 223,400
1 Claim. (Cl. 220—27)



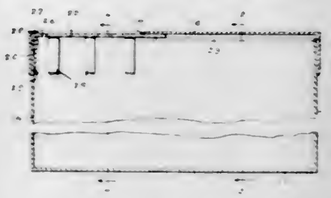
A can for a brushable liquid comprising a can body, a closure-receiving collar situated within the top end of the can body, the peripheral edge portion of said collar being secured to the top edge of the can body with a lock seam, said collar having an annular horizontal portion extending inwardly from the wall of the can body, said horizontal portion merging into the upper edge of the outer wall of an annular depending U-shaped portion of the collar located below said horizontal portion, the upper edge of said inner wall being rolled inwardly to form an annular bead, a closure member of thin easily cut metal having a depending peripheral skirt section resting against and fitting within said inner vertical wall of the U-shaped portion of the collar, and a clamping member within said skirt having an outer ring section for clamping the skirt to said vertical wall and an inner ring section spaced from said outer ring section and defining the dispensing opening of the can, the top edge of said inner ring section constituting a brush-wiping edge, said inner ring section and said outer ring section connected at their lower edges by spaced bridges whereby excess paint wiped from the brush may drain back into said can.

2,663,456
CLOSURE CAP
Arthur D. Schultz, Mayfield Heights, and Frederick C. Schwendler, Cleveland, Ohio, assignors to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 25, 1950, Serial No. 181,372
4 Claims. (Cl. 220—40)



4. A closure for containers comprising a cap member having an annular channel section, a plate section secured to the channel section adjacent the open axial end of the channel section and disposed centrally thereof providing a cylindrical recess bounded on one end by the plate section and on its external periphery by the channel section, a locking member fixedly secured to the plate section of the cap member on the side thereof opposite the recess including a pair of resilient diametrically oppositely disposed and outward radially extended fingers and a pair of axially outward angularly extended wall sections arranged diametrically opposite to one another intermediate the resilient fingers and an annular sealing gasket supported axially intermediate the wall sections and the underside of the plate section opposite the recess, said channel section lying wholly on one side of a plane in which the central plate lies opposite from the locking member.

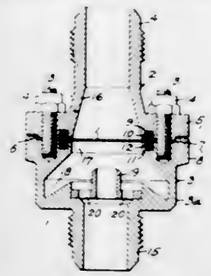
2,663,457
SLIDING BOX COVER
John E. Shaffer, Brandon, Fla.
Application July 10, 1950, Serial No. 172,902
2 Claims. (Cl. 220—41)



1. A closure member for an open-topped box including side walls and end walls comprising a top wall provided with a discharge opening, a pair of spaced parallel end flanges depending from said top wall for engagement with the exterior surface of the end walls of said box, a pair of spaced parallel side flanges depending from said top wall for engagement with the exterior surface of said side walls, a plurality of spring fingers integral with and projecting from said closure member for engagement with the walls of said box, ribs spaced below said top wall and extending from the opening to the end wall of the box remote from the opening and coacting with the top wall and the top of the spring fingers to define a trackway, a transparent lid slidably arranged in said trackway and mounted for movement into and out of engagement with said

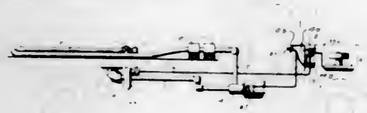
opening with the said spring fingers serving to engage and support the lid in closed position with relation to the said opening, and coacting means on said top wall and lid for preventing accidental opening of said lid.

2,663,458
RUPTURE DIAPHRAGM UNIT
William F. MacGlashan, Jr., Alhambra, Calif., assignor to the United States of America as represented by the Secretary of the Army
Application May 11, 1950, Serial No. 161,395
3 Claims. (Cl. 220—89)



1. A safety device comprising an upper housing having a central bore, a lower housing having a central stepped bore provided with a first cylindrical portion in axial alinement with the bore in said upper housing, and a second portion comprising a downwardly and outwardly tapering upper wall, an axially extending side wall, and a lower wall extending upwardly and inwardly in substantial parallel alinement with said upper wall, said second portion forming an enlarged trap chamber, each of said housings having flanged contiguous surfaces, a rupturable diaphragm disposed between said contiguous surfaces and separating said upper bore and said stepped bore, and means to secure together said upper housing, said lower housing and said diaphragm, said rupturable diaphragm having a first plurality of circumferentially alined arcuate scores, and a second plurality of radial scores extending from the mid-point of each arcuate score to the center of said diaphragm whereby said scores form petals to be caught in said trap chamber when said diaphragm is ruptured.

2,663,459
CONTROL APPARATUS FOR DISCHARGE VALVES
Victor E. Lagrange, Lake Charles, La., and Daniel J. Parmesan, Houston, Tex., assignors, by mesne assignments, to Chiksan Company, Brea, Calif., a corporation of California
Application July 18, 1949, Serial No. 105,308
18 Claims. (Cl. 222—52)



1. The combination with a motor vehicle having an engine-actuated delivery pump and also having a tank provided with a main discharge valve for controlling the discharge of fluid from said tank of a control apparatus including, actuating means connected with the discharge valve for controlling operation thereof, actuating means connected with the engine for operating the pump, a single manually-operated element having connection with the valve actuating means and with the pump actuating means for simultaneously opening the discharge valve and operating the pump and for simultaneously closing the discharge valve and discontinuing operation of the pump, and means independent of the manually operated element and controlled by the engine which operates the pump for closing the discharge valve in the event that the operation of the engine is halted.

2,663,460
COMBINED CAN PUNCTURING AND CAN HOLDER DEVICE
James Orris Keeney, Manistee, Mich.
Application December 6, 1950, Serial No. 199,449
2 Claims. (Cl. 222—86)



1. A combined can puncturing and can holder device comprising a main receptacle for receiving a can and having an external threaded end, a closure cap having a depending internally-threaded flange adapted to fit over the threaded end of the receptacle upon relative rotational movement being effected therebetween, dispensing puncturing elements, at least one thereof having a circular flanged base and a triangular cutting portion depending from said base, said puncturing elements being adapted to penetrate the top of the can as the threading action of the receptacle and closure cap is effected, said cap having a circular peripherally-flanged recess in the bottom thereof, said one of the puncturing elements having an off center hole disposed therein, a hollow spout projecting upwardly from the top of the cap, said spout having a bottom with an off center hole connecting with said recess, the flange of the base of the one of said puncturing elements rotatably engaging within the flanged recess in the closure cap beneath the spout and rotatable to have its hole movable into and out of registry with said hole in the bottom of the spout, and an elongated turning handle extending upwardly from said cap.

2,663,461
CONTAINER FOR PHARMACEUTICALS AND THE LIKE
Frank E. Brown, Burbank, Calif., assignor to Frederick M. Turnbull, Los Angeles, Calif.
Application June 30, 1949, Serial No. 102,372
6 Claims. (Cl. 222—107)

6. A dispensing-type capsule for containing and dispensing a dosage of a contained material, said capsule including: a hollow body portion providing a storage zone adapted to contain said material, said body portion having a closed end and an expelling end; a neck portion integral with said expelling end of said body and comprising a pair of walls substantially collapsed at their ends to form a pair of lips lying in mutual contact but spreadable to form a discharge orifice for such material, said body and neck portions being formed of tubular-stock pliable material which when squeezed will advance said material along said passage toward said lips to impose a force on said walls tending to separate said lips and



enlarge said discharge orifice; said walls being sealed together in face-to-face relation on opposite sides of said neck portion with the portion therebetween being unsealed and defining said discharge orifice; said discharge orifice being of substantially less transverse dimension than said body portion whereby said lips are relatively short compared to the diameter of said body portion; and a pressure-rupturable sealing substance joining and sealing said lips and holding same close to each other, said sealing substance having a tensile strength less than said body and neck portions to rupture by said force.

2,663,462
SEED PLANTER
Clarence J. Johnson, Holmen, Wis., assignor to Outers Laboratories, Inc., Onalaska, Wis., a corporation of Wisconsin
Application July 19, 1950, Serial No. 174,759
3 Claims. (Cl. 222—167)



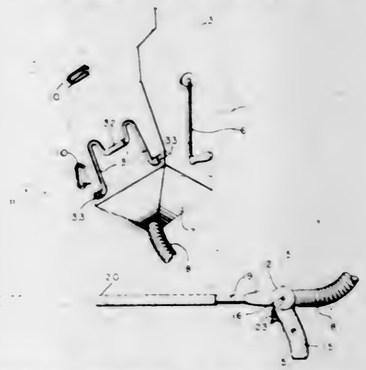
1. In a seed planter, a propelling and guiding handle having an approximately upright annular disk fixedly secured to its lower end and provided with a rigid central axle extending away from one side, said disk also being provided with a seed supply and discharge opening below said axle, a feed regulating plate adjustably suspended from said axle and coacting with said opening, a rotary frustro-conical seed container surrounding said axle and having its larger end sealingly engageable with said disk and its opposite smaller end journalled on the end of said axle remote from the disk, the frustro-conical bounding wall of said container being tapered to direct the seed toward said discharge opening as the container revolves and said regulating plate being removable from said opening to effect admission of a fresh supply of seed to said container, and a ground engaging wheel secured to the smaller end of said container and also being journalled for rotation upon said remote axle end.

2,663,463
CONTAINER HAVING A FLEXIBLE NOZZLE AND A FLEXIBLE CAP
George White Benbury, Drexel Hill, and Herbert Walter Ingham, Lansdowne, Pa., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 11, 1949, Serial No. 98,758
3 Claims. (Cl. 222—215)



1. In a container formed of flexible material, a neck terminating in a flexible nozzle, a flat sealing surface formed on the end of said nozzle, a closure for said container adapted to fit over the end of said nozzle having an end portion and a flange portion, said end portion lying in a plane substantially perpendicular to said flange portion and having a diameter substantially greater than the diameter of the sealing surface on the end of said nozzle, a concave depression formed on the outer surface of said end portion to increase its resiliency, a substantially flat sealing surface formed on the inner surface of said end portion, coacting guide means formed on the end of said nozzle and on the inner surface of said closure, separate from said sealing surfaces, for bringing said sealing surfaces into alignment when securing said closure to said container, said guide means being substantially unengaged when said sealing surfaces are in perfect alignment, and fastening means formed on said closure and neck to secure said closure to said container.

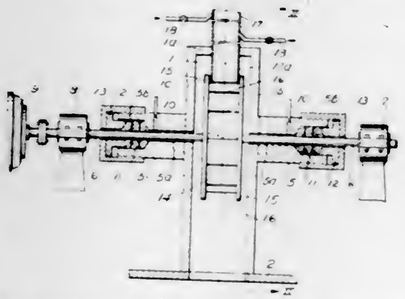
2,663,464
DISPENSER FOR POISON GRAIN AND THE LIKE
Toivo Lahonen, The Pas, Manitoba, Canada, assignor of one-half to Leonard W. Bennett, Port Arthur, Ontario, Canada
Application January 7, 1950, Serial No. 137,319
1 Claim. (Cl. 222—360)



A device for dispensing a poisonous granular mixture consisting essentially of a container for

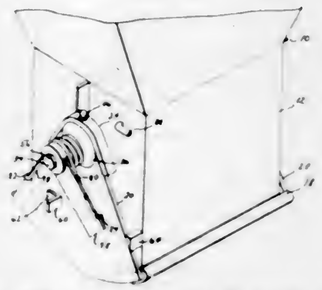
said mixture, a gun having a housing, a flexible connection from said container to said housing, a rotatable impeller within said housing and blocking the path of said mixture therethrough, a discharge tube extending from said housing to convey the mixture from said gun to a discharge point, said impeller comprising a shaft mounted across said housing and a plurality of spiral vanes extending radially from said shaft to substantially fill and block said housing whereby said mixture is lodged between said vanes when it enters said housing and is carried through said housing between said vanes when said impeller is rotated, and means to rotate said impeller step by step in predetermined increments to release a predetermined quantity of said mixture from between said vanes to pass into said discharge tube, said means comprising a plurality of lugs on said impeller, a pawl to engage said lugs, and a trigger to operate said pawl and cause said impeller to be rotated within said housing a predetermined increment each time it is operated.

2,663,465
APPARATUS FOR HANDLING FINELY DIVIDED SOLID MATERIALS
David R. Hogin, Scarsdale, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 27, 1949, Serial No. 123,859
3 Claims. (Cl. 222—368)



1. An apparatus for metering and controlling flow of finely divided solids from a conduit therefor, comprising a housing having upper and lower end portions, an outlet in said lower end portion, a conduit inlet extended into said housing through said upper end portion having a discharge end in opposed relation to said outlet and terminating in a first horizontal plane vertically spaced from said outlet, a rotatable shaft transversely of said housing intermediate said discharge end and said outlet parallel to said plane and diametrically of said end, a pair of circular plate members concentric with said shaft and secured thereto, said members spaced one from another longitudinally of said shaft by substantially the outside diameter of said conduit discharge end and extended radially from said shaft for a distance greater than the distance between said shaft and said first horizontal plane, a plurality of vane elements supported between said plate members and extending radially outwardly from said shaft to a distance substantially equal to the vertical distance from said shaft to a second horizontal plane below and in vertically spaced, close parallel relation to said first plane, the outer end edges of said vane elements terminating in radially spaced relation to the peripheral edges of said plate members, said vane elements and plate members forming a rotor unit rotatable with said shaft and providing a plurality of sectoral compartments opening outwardly between said plates, and in which said vane elements are so spaced arcuately that during rotation of said rotor unit a third plane extended over the outer end edges of any adjoining pair of vanes will intersect said first horizontal plane at an angle which is not greater than the angle of repose for a finely divided solid material contained by said inlet conduit from a point in the rotational arc of said rotor unit at which the line of intersection of said third and first planes is substantially coincident with one edge portion of the inlet conduit discharge end to a similar point at which the line of intersection of said planes is substantially coincident with the diametrically opposed edge portion of said end.

2,663,466
OPERATING MECHANISM FOR COMPRESSIBLE SEALING CLOSURES FOR HOPPERS
Robert E. Heltzel, Warren, Ohio
Application July 26, 1951, Serial No. 238,657
7 Claims. (Cl. 222—505)



3. In a device as described, a chute having a discharge opening, a gate mounted for linear movement toward and from said discharge opening and for angular swinging movement into and out of alignment with the discharge opening, an operating shaft mounted on the chute for rotative movement, eccentrics fixedly circumposed on the shaft and engaging the gate to linearly move the gate in response to rotative movement of the shaft relative to the gate, an abutment on said gate, a member radially extending from the shaft and engageable with the abutment after initial relative rotative movement of the shaft to entrain the gate to angularly swing to an open position out of alignment with the discharge opening, a stop positioned to arrest the closing swinging movement of the gate and to permit rotative movement of the shaft relative to the arrested gate in which the member on the shaft is disengaged from the abutment and a spring helically wound concentric to the shaft and having radially extending legs at its ends, one of said legs engaging the gate and the other engaging the member to yieldably restrain the member from movement relative to the gate during the closing swinging movement of the gate and to prevent rotative movement of the shaft relative to the gate until the gate is arrested by the stop.

2,663,467
FLEXIBLE SLEEVE IRIS VALVE
Walter Douglass and Alexander Charles Ellis, Middlesex, England
Application July 19, 1947, Serial No. 762,072
6 Claims. (Cl. 222—507)

1. A container comprising a tubular member, a tubular collar telescoped over said tubular member and rotatable with respect thereto, the upper edge of said collar lying in substantially the same plane as the upper edge of said tubular member, a tubular piece of flexible material forming a closure for one end of said container, one end of said tubular piece of flexible material being attached to said tubular member, and the other end being attached to said collar with a loose, unattached portion between said attached ends, said loose, unattached portion being folded back-



wardly on itself and puckering inwardly on rotation of said collar relative to said tubular member to form a diaphragm consisting of folds converging toward the center of said tubular member, and means to prevent longitudinal movement of said collar relative to said tubular member when said collar is rotated thereon, which said means also serves to limit the rotating movement of said collar with respect to said tubular member.

2,663,468
SIFTER CAP DEVICE FOR DISPENSING CONTAINERS
Simon Morrison, New York, N. Y., assignor to Sam Schwartzman, New York, N. Y.
Application March 9, 1950, Serial No. 148,673
4 Claims. (Cl. 222—517)



1. In a dispensing cap device for a container, the combination comprising a peripheral wall for one end of the container, an end wall for said container having a series of dispensing perforations, a valve disc provided with a series of dispensing perforations corresponding to said end wall perforations respectively and mounted for edgewise slide movement across the face of said end wall into and out of perforation registry with said end wall, said valve disc having a slot extending from the edge thereof, a spring wire arranged in the plane of said valve disc and having a body portion and an end anchoring portion at an angle with said body portion, said end anchoring portion being retained in said disc slot, said body portion being wrapped around the edge of said disc in stressed condition free from fixed connections and tending to spring away from the edge of said disc, the peripheral wall of the container serving as an abutment for the body portion of said spring wire to hold said body portion under stress and to cause thereby said valve disc to be urged resiliently into closed position out of perforation registry with said end wall.

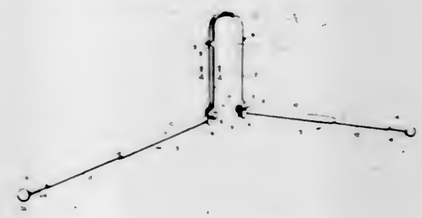
2,663,469
HOSIERY BOARD
Francis M. Southerland, Mebane, N. C.
Application October 22, 1952, Serial No. 316,137
2 Claims. (Cl. 223—76)

1. A hosiery board comprising, in combination, a base having opposed faces and end walls and shaft attaching means, a groove formed in the upper portion of said base positioned inwardly of the side walls, a detachable hosiery shaping member capable of having an inwardly extending extremity complementary in size and shape to said groove positioned within said groove, the inner face of one side of said base forming said groove having a bolt fixedly secured thereto and extending outwardly from said face, the oppo-



site face of the side of said base forming said groove having a cut-away portion opposite said bolt extending from the top of said groove downwardly beyond said bolt and providing a substantial space around the periphery thereof to expose the same, said shaping member having a slot therein extending upwardly from the bottom thereof to receive said bolt, and a nut capable of threadedly engaging said bolt for detachably securing said shaping member to said base.

2,663,470
FOLDABLE COAT HANGER
Jerome G. Albert, Chicago, Ill.
Application July 30, 1952, Serial No. 301,758
5 Claims. (Cl. 223—94)



1. A device of the class described comprising a central frame member having the form of an inverted U each leg of which is bifurcated at its free end to provide the jaws of a clevis lying in a plane normal to the plane of the frame member, a lateral arm mounted on each leg of said frame member and having its inner end extending between the jaws of the respective clevis, and means adjacent the inner end of each arm pivotally connecting the arm with the jaws of the respective clevis on a pivot axis normal to the plane of the frame member and offset laterally outward from the axis of the respective leg, each arm having its inner end extending beyond the respective pivot means for engagement with the bight of the clevis when the arm is disposed at a laterally extending position.

2,663,471
GARMENT HANGER
Arthur A. Pedersen, Orinda, Calif.
Application April 22, 1953, Serial No. 350,326
4 Claims. (Cl. 223—95)



1. A garment hanger comprising a first member having forking arms each having a garment engaging end, a second member adjustably connected to said first member and having a garment engaging end, means for drawing a portion of a garment inwardly between said forking arms including a garment engaging element and a tension spring connected at one end to said element and at its other end to one of said members, and means for suspending said hanger from a support.

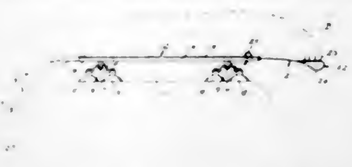
2,663,472
CARGO CARRIER FOR MOTOR VEHICLES
Robert C. Belgau, Detroit, Mich.
Application September 11, 1950, Serial No. 184,205
3 Claims. (Cl. 224—42.1)



1. In a cargo carrier for a vehicle having rounded top shoulders and longitudinally extending eaves, a plurality of pairs of contoured generally rectangular shaped saddle plates adapted to engage the shoulders of the vehicle and having spaced eave contacting sections, each saddle plate having a pair of oppositely disposed saddle brackets slidably mounted transversely thereon and having upturned substantially parallel flanges, a contoured bar having a flattened apertured end adapted to project between said upturned flanges, means to clamp the contoured bar to the upturned flanges of the saddle brackets, an eave hook adapted to engage the undersurface of the eave, a pair of guides adapted to maintain the eave hook substantially midway between the eave contacting sections of the saddle plate, an adjustable anchor rod interposed between the eave hook and the contoured bar, and cross bars adapted to interconnect each pair of saddle plates.

2,663,473
BOAT LOADING DEVICE
Jerry N. McMillan, Colville, Wash.
Application July 3, 1951, Serial No. 235,055
1 Claim. (Cl. 224—42.1)

A boat loading device for boats of a length wherein the bow extends beyond the forward edge of the vehicle top comprising in combination a longitudinally extending slide supported on the top midway its transverse dimension, a runner adapted to cooperate with said slide and secured to the beak of the boat carried by said vehicle, a rearwardly extending bar forming a part of the runner and movable in said slide,



and an eye on the rear end of said bar and forming an arcuate rear end thereon, said bar being of sufficient length to insure a portion of the bar and the eye to remain engaged with said slide when the boat is upon the vehicle in position for transporting.

2,663,474
OUTBOARD MOTOR CARRIER
Edward J. Kelly, Seattle, Wash.
Application November 15, 1952, Serial No. 320,780
5 Claims. (Cl. 224—42.03)

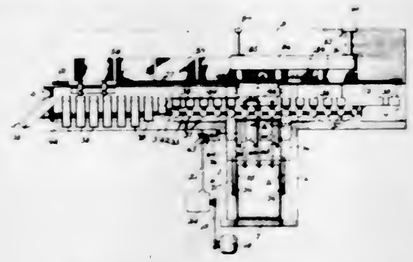


1. In a carrier for transporting an outboard motor on an automobile of the type having a frame including two spaced upright supporting arms having their upper portions secured together by a support bar adapted to be secured in the clamp of the motor, the improvement, comprising: a pair of struts each having a suction cup at one end and a pair of strut housings in which the struts are slidably mounted and releasable securing means for clamping the struts in place in their housings to change their effective length, said strut housings being secured to the upper portion of said frame at either side in a manner permitting the struts to extend laterally forward from the supporting arms; upper and lower adjustable length tension members each having one end secured to said frame at upper and lower locations respectively and each a hook at its other end adapted to fasten to the edges of the trunk door of such automobile, whereby said carrier may be secured with said frame upright and resting on the bumper apron of the automobile and with the suction cups pressed against the trunk door by the tension members.

2,663,475
SPRING POCKET FILLING MACHINE
William K. McInerney and James M. McInerney, Grand Rapids, Mich.
Application September 12, 1949, Serial No. 115,256
10 Claims. (Cl. 226—18)

1. In a structure as described, a horizontal table, an endless horizontal conveyor having an upper run passing over said table, said conveyor at spaced distances in the length thereof having outwardly projecting pins, a second horizontal

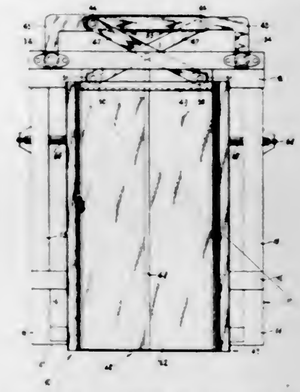
conveyor, a plurality of elongated spring receiving members hingedly connected to said second conveyor at equally spaced distances in the length thereof, said spring receiving members depending vertically from the lower run of their conveyor and occupying generally horizontal positions in changing from the lower to the upper runs of the conveyor in the movements thereof, camming guide means over which the spring receiving members of the upper run of the conveyor ride for changing said spring receiving members from horizontal through inclined positions to vertical positions with the progress of the upper run of the conveyor, said spring receiving members being adapted to receive individual coiled compression springs therein while at an inclined position, said spring receiving members being open at their outer ends, vertically movable spring compressing members mounted between the ends of the said



second conveyor and movable to a position above the upper ends of said spring receiving members, means for driving both of said conveyors simultaneously in step by step periodic movements with rest intervals between movements, means for driving the spring compressers downwardly to compress the springs followed by an upward movement of said spring compressers, horizontally located spring loading members movably mounted for reciprocation in a horizontal plane, said spring receiving members adjacent their lower ends having openings for the passage of said spring loading members, and means for moving said spring loading members horizontally to force the compressed springs from the spring receiving members into the open ends of said bag pockets, followed by a return backward movement of said spring loading members to initial position while said conveyors are at rest between movements thereof.

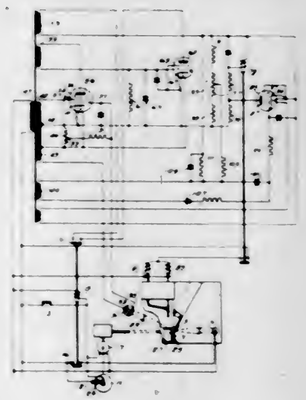
2,663,476
COMPACT FILLING MACHINE OPERATED BY FOLDABLE LINKAGE
Max Goldberg and Robert J. Goldberg, New York, N. Y.
Application November 19, 1951, Serial No. 257,106
1 Claim. (Cl. 226—46)

In a filling machine of the character described comprising an upright frame having upper and lower tiers, an open-ended receptacle mounted horizontally at the upper tier of said frame and having an end portion extending beyond said frame, a plunger-head reciprocably mounted in said receptacle to eject the filling material from said receptacle, two sets of foldably linked drive members mounted in said receptacle for sliding said plunger-head forwardly and reversely within said receptacle, two upright shafts oscillatively mounted at one end wall of said frame, one of the parts of each set of said linked drive members being an angular crank fixed to the upper end of one of said upright shafts, the other part of each set of said linked drive members being a link connecting one of said cranks with said plunger-head, and driving means mounted in



said lower tier and connected to the lower ends of said upright shafts for oscillating said shafts, and actuating said plunger-head forwardly and reversely in said receptacle.

2,663,477
FOOD DISPENSING APPARATUS CONTROL SYSTEM
Waldemar I. Bendz, Weston, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 18, 1947, Serial No. 792,505
9 Claims. (Cl. 226—46.3)



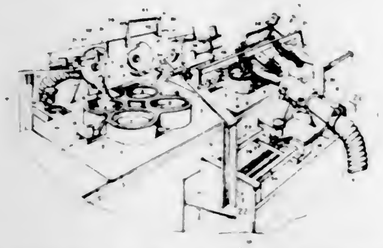
3. Apparatus for controlling a food dispensing system including a container and means for projecting food into said container; comprising in combination, means for projecting a beam of radiant energy on said container, means responsive to the resultant beam of radiant energy emitted by said container when it is in a position to receive said food for turning said projecting means on and responsive to the interruption of said resultant beam when the food in said container is at a predetermined level to turn said projecting means off, and means for turning said projecting means off after a predetermined time interval independently of the quantity of food in said container.

2,663,478

FLUID SUBSTANCE DEPOSITOR FOR FILLING CONTINUOUSLY MOVING RECEPTACLES

Marion C. Jahn, Lake County, and Walter E. Shapcott and Dennis W. Smith, Cook County, Ill., assignors to Colborne Manufacturing Co., Chicago, Ill., a corporation of Illinois

Application June 1, 1950, Serial No. 165,402
11 Claims. (Cl. 226—95)



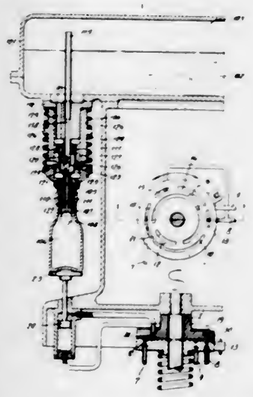
1. A depositor for fluid substances comprising a pair of nozzles mounted for movement along a predetermined path, a continuously moving conveyor extending along said path and adapted to carry a series of uniformly spaced receptacles, said nozzles being disposed one on each side of said conveyor and positioned to discharge into receptacles carried thereby, means adapted to reciprocate said nozzles along said path in respectively opposite directions and in timed relation with the movement of said conveyor, valve means adapted to open and close said nozzles individually, valve operating means adapted to operate said valve means sequentially in timed relation with the movement of said nozzles, and conduit means connecting said nozzles to a source of fluid substance supply.

2,663,479

FLUID OPERATED FILLING VALVE MECHANISM UTILIZING VARYING FLUID PRESSURES

René Détrez, Nogent-sur-Marne, France

Application August 6, 1949, Serial No. 108,928
Claims priority, application France August 9, 1948
24 Claims. (Cl. 226—98)



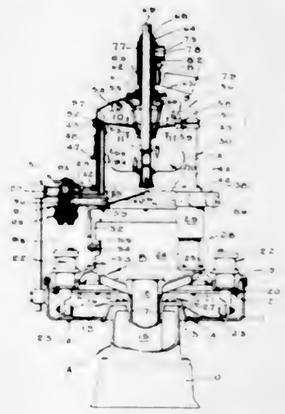
1. A bottle filling apparatus comprising, in combination, a first chamber portion; a second chamber portion containing a liquid to be filled into the bottles; first duct means communicating with said first chamber portion; second duct means communicating with said second chamber portion; valve means associated with said second duct means for opening and closing the same; means for supporting the bottle to be filled adjacent to said first and second duct means; first pressure actuated means for placing the bottle to be filled into communication only with said first duct means and in position to communicate with said second duct means when said valve means is open; and second pressure actuated means for opening said valve means so that said second duct means communicates with said bottle to permit the liquid to flow therein.

2,663,480

CONTAINER FILLING MACHINE

William de Back, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware

Application March 27, 1950, Serial No. 152,063
18 Claims. (Cl. 226—98)



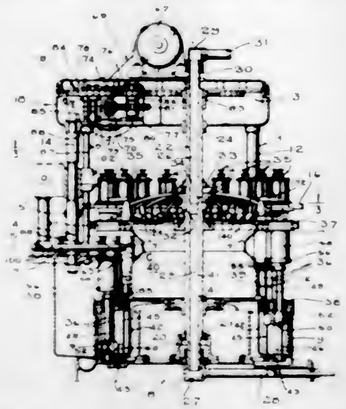
1. A container filling machine comprising a rotary liquid supply tank, a compartmented cover adapted to seal the interior of said tank from the atmosphere, a valve housing mounted on said cover, a valve mounted in said valve housing, to drain liquid from the cover compartment into the tank, means for openly connecting the cover compartment to a source of vacuum, a filler valve body mounted on said tank to rotate therewith, a liquid passage extending downwardly from said tank through said valve body and having a downwardly opening outlet, sealing means surrounding the outlet from said liquid passage, means for moving a container to position its mouth in sealed relation with said sealing means, valve means mounted to control the flow of liquid through said liquid passage, vacuum communicating means normally communicating said valve body with said vacuumized cover compartment, valve means mounted alternately to communicate a container mounted with its mouth sealed to said sealing member with said vacuum communicating means and with the atmosphere, said vacuum communicating means having a removable portion adapted to communicate the interior of the cover compartment with the liquid supply tank, and said tank having a removable portion adapted to communicate the interior of the tank with the atmosphere.

2,663,481

FILLING MACHINE

Frank W. Krueger and William de Back, San Jose, Calif., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware

Application September 16, 1947, Serial No. 774,214
13 Claims. (Cl. 226—98)



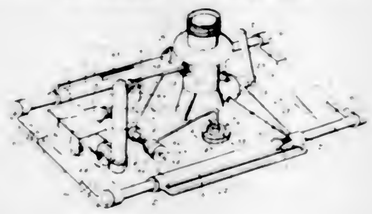
1. A filling machine comprising a source of vacuum, a source of liquid, a filling head for sealingly engaging a container, said head having a plurality of passages and chambers including a metering chamber and a chamber in flow communication with the container, a valve entirely within said filling head, and means for operating said valve successively through a plurality of positions for interconnecting said chambers and said sources of liquid and vacuum by means of said passages, said valve having a first position communicating said metering chamber with said source of vacuum, a second position communicating the container with said source of vacuum while communicating said metering chamber with said source of liquid to fill said metering chamber, and a third position communicating said metering chamber with the container for transferring the liquid from said metering chamber to the container.

2,663,482

AUTOMATIC ICE CREAM FILLER

Paul Gilberty, Roslyn Heights, N. Y., assignor to Dairymat Corporation, Long Island City, N. Y., a corporation of New York

Application October 27, 1952, Serial No. 316,959
14 Claims. (Cl. 226—99)



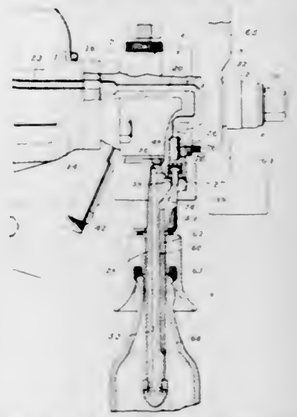
1. In a semi-solid dispenser mechanism having a conveyor belt moving empty containers therealong, a base plate mounted above the conveyor belt, said base plate having a slot therethrough adapted to overlie one container and a portion of the next container, gripping means on the bottom of said plate adapted to first releasably grip the containers and then to move them longitudinally to one end of said plate, means for activating said gripping means in the aforesaid sequence, means for continuously supplying a semi-solid to said slot and therethrough to a container directly thereunder, and means for indicating when the container is flush-filled whereby to control said activating means.

2,663,483

FILLING HEAD HAVING OVERFLOW VALVE CHECK MEANS

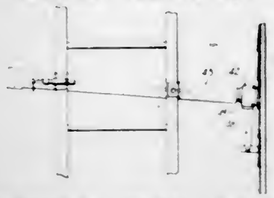
Carl L. Day and James E. Freeze, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York

Application January 26, 1950, Serial No. 140,572
1 Claim. (Cl. 226—114)



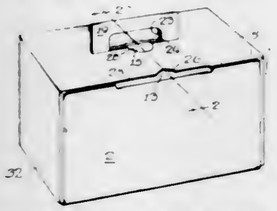
In a filling head for counterpressure fillers, a body element including a seat face and a face adapted to be secured to a filling machine reservoir, said body element including a first liquid passage and a first gas passage extending between said faces and respectively adapted to be connected at said second-named face to the liquid and gas containing portions of the reservoir, said body element including a third face lying substantially normal to said seat face and a second liquid and a second gas passage extending between said seat face and said third face, said second gas passage including a leg extending normal to said third face, a disc valve rotatable on said seat face and provided with flow passages to connect the two liquid passages and the two gas passages, a filling nozzle normal to said third face and including a liquid passage in communication at said third face with the second liquid passage of said body element, said nozzle including a gas passage, a collar surrounding said nozzle adjacent said third face and including a passage to connect the nozzle gas passage and the second gas passage of said body element, the leg of said second gas passage of said body element which is normal to said third face being enlarged inwardly from said third face to a point spaced from said third face and the inner end of such enlarged passage portion being provided with a valve seat, a float valve in said enlarged passage portion, and means in the outer portion of the enlarged passage portion to limit movement of said float valve away from said valve seat comprising a sleeve positioned in the enlarged passage portion, the inner portion of said sleeve being provided with circumferentially spaced openings to permit flow therethrough.

2,663,484
LADDER BRACKET
William MacPherson, Westlake, Ohio
Application December 11, 1947, Serial No. 791,045
3 Claims. (Cl. 228—60)



3. A scaffolding bracket comprising, an elongated base attachment member, said base member having anchor portions to hold the base member on a wall surface, first and second attachment socket members each having a socket recess of equal size with an entrance opening, said socket members being rigidly mounted on said base member with the socket recesses thereof offset at right angles with respect to one another, a ladder engagement arm, said ladder engagement arm having an attachment end dimensioned to fit either one of said socket recesses, and a stabilizer arm, said stabilizer arm having an attachment end dimensioned to fit either one of said socket recesses, and means to secure said attachment ends in a selected socket, said ladder engagement arm having vice grip means to rigidly join the engagement arm to a ladder.

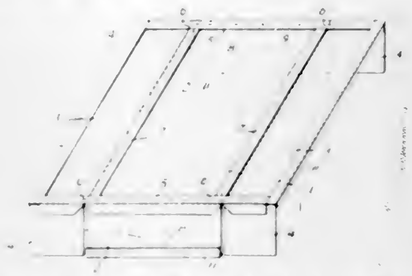
2,663,485
CONTAINER WITH CARRYING HANDLE
Richard H. Johnson, Arlington Heights, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application May 2, 1951, Serial No. 224,188
6 Claims. (Cl. 229—16)



1. A container having a top wall comprising spaced upper and lower panels hingedly connected together along a hinge line joining one edge of each, there being a slot along said hinge line between said upper and lower panels, there being a second slot in said upper panel, a handle carried by said lower panel and projecting through the second slot, a front wall having a tuck flap slidable through the first mentioned slot, and a locking tab integral with the tuck flap, the locking tab being movable into register with the second slot and engageable with the forward edge of the latter to lock the front wall in closed position.

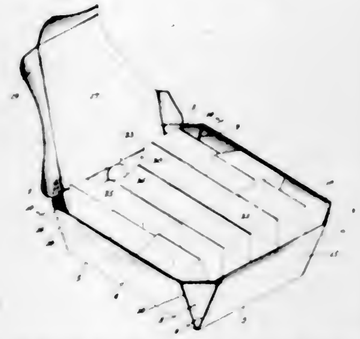
2,663,486
BOTTLE TRAY
William Geisler, Tenafly, N. J., assignor to Wilbro Corporation, New York, N. Y., a corporation of New York
Application August 17, 1949, Serial No. 110,708
2 Claims. (Cl. 229—32)

1. A collapsed reinforced carrier for bottles and the like comprising a sheet of paper board cut and scored to provide side and end flaps, reinforcing angles of semi-rigid plastic material attached to the sheet of paper board along certain of said score lines adjacent the portion thereof forming the body of the carrier with the corner of said angle alined with said score line and with the unattached portion of said angle projecting upwardly beyond the upper face of said bottom portion of said carrier and a collapsed partition assembly



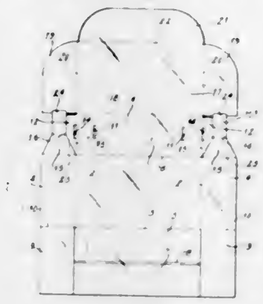
attached to the inner face of one of the flaps of said collapsed carrier said connection providing a fold line coincident with the end of one of said partition strips and the face of said flap so that when the flap to which the collapsed partition assembly is attached is folded against the face of the bottom portion of said collapsed carrier the partition assembly will lie flat against said bottom portion.

2,663,487
EXPANSIBLE CARTON AND DETACHABLE COVER
Richard E. Paige, New York, N. Y.
Application April 17, 1948, Serial No. 21,640
2 Claims. (Cl. 229—34)



1. A receptacle comprising a body having sides and a bottom, and overlapping means connected to the extremities of some of the sides to permit the same to be swung outward and retained in distended position to increase the space for merchandise within the receptacle, the body also having a detachable cover with flaps along one edge, said flaps having a recess between their adjacent ends, the recess having an enlarged inner end with shoulders at the sides, one side of the box having angular cuts below its top edge to receive the adjacent ends of said flaps and connect the cover to the box, with the said flaps being less than the height of said sides and the distance between the shoulders and the inner end of the recess being substantially equal to the distance between the top of the side and the adjacent ends of said cuts.

2,663,488
CORNER LOCKING DEVICE FOR CONTAINERS
Clyde F. Gibbons, Atlanta, Ga., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application November 30, 1950, Serial No. 198,269
3 Claims. (Cl. 229—36)



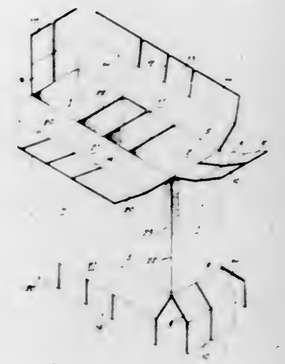
1. In a container having adjacent walls, an interlocked corner comprising a wall having a wall locking flap thereon, and an adjacent wall having a slot therein in spaced parallel relation to said corner and provided with a slotted anchoring tab foldably connected to the end thereof, said anchoring tab being provided with an anchoring slot adjacent said foldable connection, said anchoring tab being disposed inwardly and positioned flatwise against the inner face of said first wall, said wall locking flap extending around the outside of said corner and through said slot in said adjacent wall and being positioned flatwise against the inner surface of said adjacent wall, the edges of said adjacent wall forming said slot firmly engaging the wall locking flap positioned therethrough, said wall locking flap terminating within the slot of the said anchoring tab, and a cover member having a depending marginal flange thereon with a notch on the end edge thereof adjacent said wall locking flap, the edges of said depending marginal flange defining said notch being adapted to grip said wall locking flap when said cover is in the closed position.

2,663,489
TUBULAR CONTAINER FOR ARTICLES OF MERCHANDISE
Richard E. Paige, New York, N. Y.
Application November 28, 1947, Serial No. 788,419
4 Claims. (Cl. 229—37)



1. A container having a body with a bottom and a top, sides connecting the bottom to the top, an extension uniting adjacent extremities of the top and bottom, and webs joining the extension to the sides, said webs being within the container and having free edges adjacent the interior surface of the bottom, said extension and said sides having outside edges at each junction thereof with said webs, said outside edges being spaced apart along their lengths and enclosing spaces open to the exterior of the container between them.

2,663,490
CORRUGATED CARTON
Bernard Etra and Irving Etra, Brooklyn, N. Y.
Application March 9, 1950, Serial No. 148,666
10 Claims. (Cl. 229—38)



1. A carton comprising a substantially rectangular blank, said blank being scored longitudinally and laterally to form alternate end and side panels, said panels having a series of transverse extensions thereon along opposite edges thereof, said extensions being slitted in alinement with said lateral scorings, the extensions of said end panels being slitted transversely, all of said extensions being scored transversely longitudinally, said side panels having a plurality of transverse slits extending from the edge to the scoring thereof, said slits being in the central portion only of said side panels and adapted to engage a zigzag spacer, said blank being folded with the opposite ends thereof in contact, one set of extensions on one side of said blank being folded in to form the bottom of said carton and the other set being folded in to form the top of said carton, the slitted ends of said extensions constituting separators for containers held in said carton, and an upstanding spacer of zigzag form in the center of said carton, said zigzag spacer terminating short of the ends of said carton to provide end spaces, the slitted ends of said side panels interlacing with the ends of said spacer, the ends of the extensions of said end panels fitting into said end spaces to divide each of them into a plurality of compartments for said containers, the extensions of said opposite edges when said carton is closed being in alinement and being spaced apart a substantial distance while forming a series of compartments.

2,663,491
CASE
Irving Hill and George L. Miller, Lawrence, Kans., assignors to The Lawrence Paper Company, Lawrence, Kans., a corporation of Kansas
Application January 16, 1950, Serial No. 138,770
3 Claims. (Cl. 229—39)

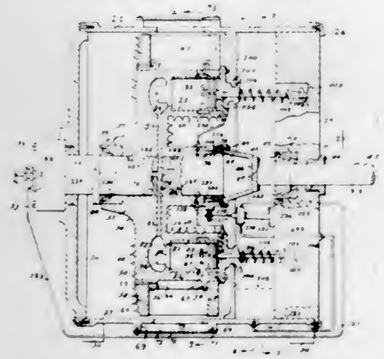
1. In a stiff board case having overlapping flaps, one of said flaps having a bias arranged slot and provided with a tongue projecting into said slot, and the other flap having spaced scores extending diagonally across the corner of said other flap to provide a corner tab offset from the plane of said flap to facilitate passage through said slot and movement of said corner into con-

tact with the underside of said flap having the slot and said offset portion into position con-



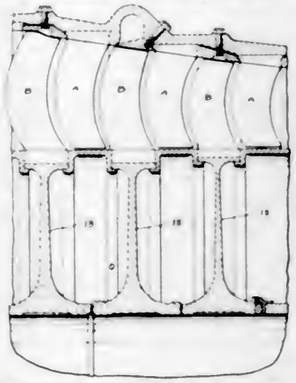
tained in said slot, said offset portion having an opening for receiving said tongue.

2,663,492
AIR COOLED AIR COMPRESSOR
Arthur C. Eaton, Mount Pleasant, Mich.
Application December 21, 1951, Serial No. 262,748
14 Claims. (Cl. 230—20)



1. A rotary type air compressor comprising a casing having first and second end walls and a cylindrical side wall, a stationary shaft secured to one of said end walls and extending axially into and partially through the casing, a driven rotary shaft extending axially into the casing through the other second end wall and journalled therein, a rotor journalled on the stationary shaft for rotation within the casing and coupled to said driven shaft and rotated thereby, a turbine unit secured around the periphery of the rotor for rotation therewith within the casing and extending outwardly therefrom to adjacent the cylindrical wall of the casing and including a plurality of circumferentially spaced vanes forming scoops having leading outer edges disposed in advance of their trailing inner edges, said cylindrical casing wall having air inlet ports adjacent said turbine unit through which air is drawn into the casing from pockets of the turbine unit formed between the vanes thereof by rotation of the rotor, cylinders formed in said rotor and disposed longitudinally thereof between the turbine unit and the stationary shaft, said rotor being provided with air passages leading from the pockets of the turbine unit to said cylinders, said rotor and stationary shaft having communicating passages extending from corresponding ends of said cylinders and opening outwardly of an outer end of the stationary shaft, pistons reciprocally mounted in said cylinders having piston rods extending therefrom away from the last mentioned rotor passages and toward the second casing end wall, spring means carried by said piston rods for urging the piston rods and pistons toward said second end wall, and cam means associated with the second end wall engaging said piston rods for intermittently displacing the piston rods and pistons toward the last mentioned rotor air passages for compressing air in the cylinders and forcing the compressed air through the last mentioned rotor passages into the stationary shaft passage, said turbine forcing air under pressure into said cylinders in certain positions of the pistons relatively to the cylinders whereby the pistons on their compression strokes will initially operate on air partially compressed in said cylinders.

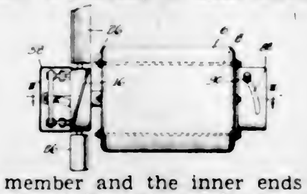
2,663,493
BLADING FOR COMPRESSORS, TURBINES, AND THE LIKE
Francis H. Keast, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application April 26, 1949, Serial No. 89,736
6 Claims. (Cl. 230—122)



1. A blade for compressors, turbines and the like having successive alternating stator and rotor elements each carrying similar fixed blades, the said blade being characterized in that the leading edge at every successive foil section radially outward from a selected point on the leading edge between the root and the tip is displaced relatively to the leading edge at the preceding foil section in the same sense as the local fluid flow in the machine midway between the said sections, and the leading edge at every successive foil section outward from the root to the said selected point is displaced relatively to the leading edge at the preceding foil section in a sense generally opposite to that of the fluid flow in the machine whereby the leading edge configuration of the root portion will conform generally to the leading edge configuration of the tip portions of the preceding adjacent blades, the angle of sweep of the leading edge of the said blade at any section being not substantially less than the minimum required to maintain subsonic flow at that section.

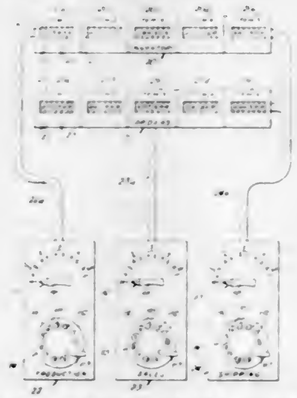
2,663,494
ELECTRIC FAN
Carl J. Burkland, Chicago, Ill., assignor of one-half to Earl Haubrich, Chicago, Ill.
Application September 6, 1950, Serial No. 183,387
7 Claims. (Cl. 230—259)

1. An electric fan comprising a motor, a rotatable hollow drive shaft in said motor, a blade mounting member fixed to the forward end of said hollow drive shaft for rotation therewith, a plurality of fan blades extending radially of said hollow drive shaft from said blade mounting member and driven thereby, said fan blades being rotatable about their longitudinal axes, a second shaft concentrically mounted within said hollow drive shaft and extending forwardly thereof, said second shaft being rotatable with said hollow drive shaft and said shafts being freely shiftable axially of one another, an actuating member fixed on the forward end of said second shaft, a plurality of links between said



actuating member and the inner ends of said fan blades for shifting the pitch of said blades in response to movement of said actuating member toward or from said blades, a positioning lever extending substantially radially from the rear end of said second shaft and rotatable relative thereto, and means defining a fixed guideway obliquely disposed relative to said second shaft and receiving said positioning lever to shift said second shaft forwardly or rearwardly of said hollow drive shaft as said positioning lever is rotated relative to said guideway.

2,663,495
COUNTING EQUIPMENT
William H. Ramsell, Palo Alto, Calif., and Emerson A. Armstrong, Western Springs, Ill.
Application January 12, 1951, Serial No. 205,796
2 Claims. (Cl. 235—61)



1. Counting facilities of the class described comprising a group of counters each having a series of counter wheels, a plurality of separate stations each of which is independently operable to select and operate the counters of the group individually, said counter wheels of each counter being operable optionally in forward or reverse directions by each station, each counter having a stepping device associated therewith by which the counter wheels of the counter are consecutively connected individually with the station by which it is selected and operated, each said station having a counter operator which is manually operable to operate the counter wheels individually, said counter operator having facilities which are effective in each interval between manual counter wheel operation thereof to operate the stepping device to connect another counter wheel with the station.

2,663,496
FUZE TIME COMPUTER
Norman P. Heydenburg, Silver Spring, Md., and Richard B. Roberts, Washington, D. C.
Application January 24, 1947, Serial No. 724,200
2 Claims. (Cl. 235—61.5)

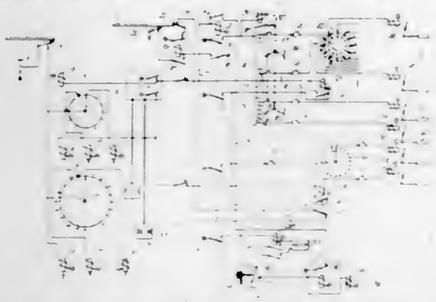


1. A fuze time computer comprising means providing a first alternating voltage proportional to the train angle of a target, means providing a second alternating voltage proportional to the elevation angle of said target, said voltages having the same phase, means for shifting the phase of one of said voltages to quadrature relationship with respect to the phase of the other of said voltages, means for combining said voltages vectorially, means for providing a unidirectional voltage proportional to the resultant of said alternating voltages, a source of alternating current, means connected to said source and controlled by said unidirectional voltage to provide a current in phase quadrature with said source and proportional to said unidirectional voltage, a first adjustable resistor to which said current is supplied thereby providing a third alternating voltage in phase quadrature with the voltage of said source, the adjustment of said resistor being determined by the present range of said target, means connected to said source for providing a fourth alternating voltage, said voltage being proportional to the range rate of a target, means for combining said third and fourth voltages vectorially, a second adjustable resistor having its magnitude determined by the time delay between the setting of the fuze and the firing of the shell, a third adjustable resistor connected in series with said second resistor and having its magnitude determined by the time of flight of a projectile to the future target position, means for applying the resultant of said third and fourth alternating voltages across said second and third resistors, means for vectorially combining a voltage proportional to said last-named resultant and a voltage proportional to the present range of a target, thereby providing a voltage proportional to the future range of a target, means for rectifying the resultant of said last-named voltage, and means controlled by said rectified resultant for providing a signal representing the time of flight of a projectile to a future target position.

2,663,497
ELAPSED TIME COMPUTER
Lois K. Straus, Great Neck, N. Y., assignor to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application June 29, 1950, Serial No. 171,032
3 Claims. (Cl. 235—61.8)

1. Apparatus for automatically computing the hours and fractional hours elapsed between start and punchout times and for recording said elapsed time in Arabic figures on a card on which

the start time data has been previously recorded by means including a pair of perforations representing hours and fractional hours, respectively, comprising: means including type bars on a rotatable disk for printing hours and fractional hours in Arabic figures; clock controlled means for continuously registering hours and fractional hours in said apparatus; means for sensing the coded in time of the card means including a second disk controlled through said sensing means, the hour perforation in the card



and the hour registering means for setting the means for printing hours in accordance with the whole hours elapsed between said start and punchout times; means including said second disk controlled through said sensing means the fractional hour perforation in the card and the means for registering fractional hours for setting the means for printing fractional hours in accordance with the fractional hours elapsed between said start and punchout times; and means for striking the card to print thereon said elapsed time.

2,663,498

TEMPERATURE REGULATING SYSTEM

Bruce G. Copping, Cuyahoga Falls, Ohio, assignor to Don Manufacturing Company, Chicago, Ill., a corporation of Illinois

Continuation of application Serial No. 747,470, May 12, 1947. This application August 17, 1951, Serial No. 242,245

2 Claims. (Cl. 236—1)



1. A regulator for use in an air temperature conditioning system of the type wherein a plurality of shutters control air flow from a source of temperature conditioned air to spaces to be temperature conditioned, said regulator including a switch in control of said source shiftable to a first position whereby said source is operative and a second position whereby said source is inactivated, a lever arm pivotally supported at a fulcrum and operatively connected to said switch to shift said switch between said first position and said second position, a temperature sensitive element disposed partially within said source and pivotally connected to said arm to control the position thereof in direction to maintain the temperature of said conditioned air within predetermined limits, and bellows in communication with said source to control the position of said fulcrum to shift said arm to alter the temperature of said source in direction to increase the temperature differential between said source and said spaces as said bellows collapse.

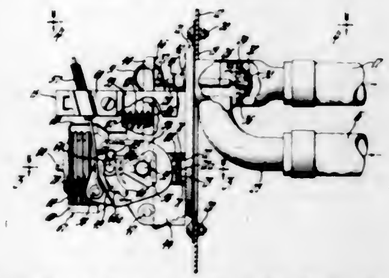
2,663,499

TEMPERATURE CONTROL VALVE

Arthur J. Schutt, Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application November 2, 1949, Serial No. 125,029

12 Claims. (Cl. 236—42)



1. In a device for controlling the flow of heating fluid to a heat exchanger, a conduit connecting a source of heating fluid to the heat exchanger, a valve in said conduit, a valve stem therefor, a valve control lever connected to said valve stem, means biasing said control lever in valve-opening direction, thermo-responsive means in the form of a bellows connected to said control lever for actuating said valve, adjustable spring means interposed between said bellows and control lever to counterbalance the bellows pressure, a bellows stem connected to said bellows, a cam lever connected to said bellows stem, and cam means for actuating said cam lever to adjust the static positions of said thermo-responsive means and control lever to cause said thermo-responsive means to open and close said valve within different ranges of temperature variation.

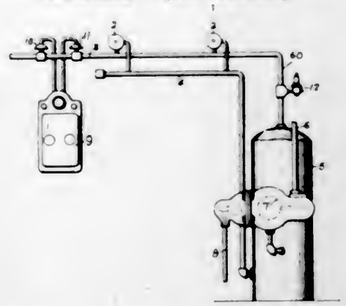
2,663,500

HUMIDIFYING SYSTEM AND APPARATUS

Grover B. Holtzclaw, Charlotte, N. C., assignor to Parks-Cramer Company, Fitchburg, Mass., a corporation of Massachusetts

Application July 21, 1951, Serial No. 237,871

13 Claims. (Cl. 236—44)



1. In a humidifying system for an enclosure having atomizer heads, a water pressurizer, means connecting the pressurizer below the water level to the heads, means connecting compressed air to the heads, means connecting compressed air to the pressurizer above the water level, and a regulator responsive to the humidity conditions of the enclosure acting simultaneously to vary the pressure of the compressed air supplied to the heads and the pressure of the compressed air supplied to the pressurizer, the provision of supplemental means acting, during a predetermined range in the pressure determined by the regulator, to cause the pressure in the pressurizer to vary with and at a faster rate than the rate of variation of the pressure determined by the regulator, thus within said predetermined range to cause a greater variation in the evaporative output of the heads than that effected by the regulator alone.

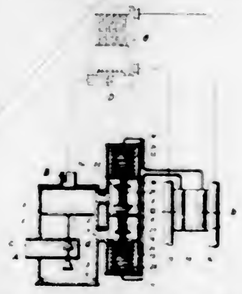
2,663,501

DEVICE FOR CONTROLLING THE FUEL SUPPLY OF HEATING PLANTS FIRED WITH GASEOUS OR LIQUID FUELS, PARTICULARLY GAS-FIRED LIQUID HEATERS

Walter Brümmerhoff, Remscheid-Lennep, Germany, assignor to Johann Vaillant Kommanditgesellschaft, Remscheid, Germany

Application June 28, 1951, Serial No. 234,114

7 Claims. (Cl. 236—91)



1. A device for controlling the fuel supply particularly for gas-fired liquid heaters comprising, a valve in the fuel supply pipe of the heater, a thermostat heat conductively connected with the pipe for the cold liquid, a second thermostat heat conductively connected with the pipe for the heated liquid, a heat-conductive connection between said thermostats, and means for changing the position of said fuel valve dependent upon the difference of temperature of said thermostats.

2,663,502

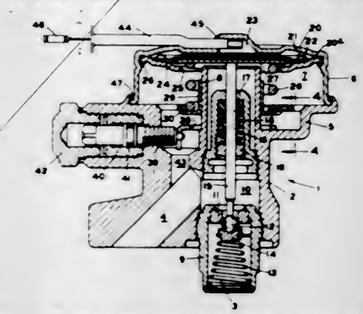
REFRIGERATION EXPANSION VALVE AND ADJUSTMENT MECHANISM THEREFOR

Earnest J. Dillman and Thomas E. Noakes, Detroit, Mich., assignors to Detroit Controls Corporation, Detroit, Mich., a corporation of Michigan

Application January 24, 1950, Serial No. 140,194

7 Claims. (Cl. 236—92)

1. In a refrigeration expansion valve, a valve casing having inlet and outlet passageways, a valve member controlling flow of refrigerant through said passageways, an operating diaphragm in said casing arranged for actuation of said valve member, a spring opposing movement of said diaphragm in a valve opening direction, said casing having a guide projection extending toward said diaphragm, a supporting member for said spring slidably guided on and operable to have sliding movement longitudinally of said guide projection, a wedge member arranged to have movement transversely to said guide projection and cooperable with said supporting member upon movement to vary the position thereof on said guide projection thereby to vary the compression of said spring, and means to adjust the position of said wedge member.



2,663,503

MEANS FOR EXTRICATING MOTOR VEHICLES FROM MUDHOLES

John Floyd Piitz, Wilmer, Ala.

Application May 5, 1952, Serial No. 286,098

6 Claims. (Cl. 238—14)



6. A device for assisting in extricating a mired vehicle wheel, comprising a pair of complemental plates disposed in spaced side-by-side relation, flexible members transversely connecting the plates, means for adjusting the length of said members between the plates to position the plates closer together or further apart, and means extending laterally from the plates for supporting the plates in inclined positions in advance of a mired wheel with said flexible members extending transversely of the tread portions of the wheel tire and adapted under pressure of the wheel to clamp the plates against the opposite side walls of the tire, said plates having inner longitudinally curved faces to engage the side walls of the tire at the tread portions, and reinforcing means formed transversely on the inner faces.

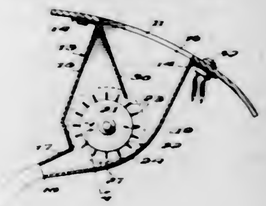
2,663,504

DISPOSAL DEVICE FOR CIGARS, CIGARETTES, AND LIKE WASTE MATERIALS

Charles L. Hooker, Jr., El Cajon, Calif.

Application August 13, 1951, Serial No. 241,546

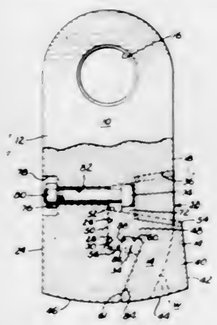
1 Claim. (Cl. 241—186)



In a disposal device for waste material of the nature of cigar and cigarette butts comprising a fixed housing adapted to be secured to the dash of an automobile having an opening for the reception of waste material and suction outlet

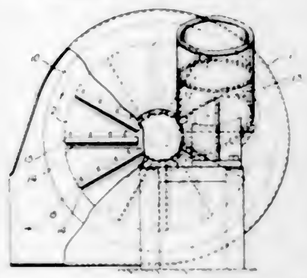
means communicating with said housing, the improvement consisting of a rotatable cutter extending across said housing in the path of waste material introduced thereinto, said housing having an opening in its top communicating with the first opening for introducing waste material thereinto, and side walls leading from the housing opening converging around the cutter and connecting with the outlet, a baffle plate steeply inclined downwardly from the housing opening tangentially directed with respect to the rotatable cutter to funnel waste material thereto, said rotatable cutter comprising a shaft and a drum-like member on said shaft having a plurality of outwardly projecting pin-like teeth thereon, a plurality of stationary laterally wedge shaped cutting teeth on a converging wall of the housing extending across the length of the rotatable cutter and to adjacent the periphery of the pin-like teeth, the stationary teeth reaching from the point of nearest approach of the pin-like teeth to the side wall to a point removed downstream therefrom, the pin-like teeth and the stationary teeth having substantially the same clearance throughout the extent of the latter, and means for rapidly rotating the rotatable cutter in a direction away from the baffle plate towards the stationary teeth to comminute waste material for removal by the suction means from the converging housing section.

2,663,505
ROTARY IMPACT HAMMER FOR PULVERIZERS
Charles E. Sennholtz, Chicago, Ill.
Application July 17, 1951, Serial No. 237,226
7 Claims. (Cl. 241—197)



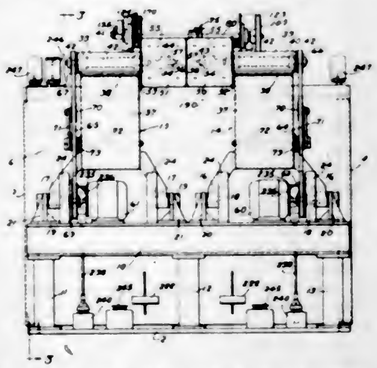
1. An impact hammer for rotary pulverizers comprising, in combination, a hammer arm presenting a leading and a trailing face, there being a notch formed in said arm adjacent the outer free end thereof extending inwardly from said leading face, a removable and generally L-shaped hammer tip of one-piece construction including a body portion presenting an impact face and a trailing face, and a flange portion extending laterally from said body portion and presenting inner and outer faces, said flange portion being received in said notch with its inner face in contact with one wall of the notch, the trailing face of said body portion being in contact with the leading face of said hammer arm outwardly of said notch, a wedge member disposed in said notch and bearing against the other wall of the notch and against the outer face of said flange portion to maintain the flange portion in position in the notch, and a locking bolt assembly secured at one end to the wedge member and passing through said hammer arm for locking said wedge member in position.

2,663,506
WOOD CHIPPER
William Kent Vaughan, Carthage, N. Y.
Application December 12, 1951, Serial No. 261,216
5 Claims. (Cl. 241—278)



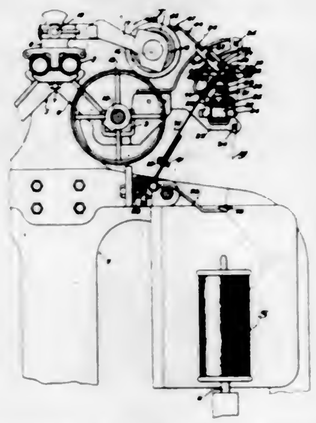
1. In combination with a wood chipper comprising a rotatable disc, a plurality of knife blade supports mounted on and secured to a face of said disc and symmetrically arranged thereon in a generally straight line extending from a point adjacent to the hub of the disc towards the periphery thereof and extending beyond the surface of said disc, means for securing a knife blade to each of said supports with a cutting edge thereof extending at an angle to the outer surface of said support, means extending rearwardly of each knife blade support towards but stopping short of the cutting edge of the next following knife blade, and a passageway for wood chips defined by said last mentioned means, the opposing surface of the disc and opposing faces of adjacent knife blade supports, said passageway extending from end to end of said knife blade supports.

2,663,507
WINDING MACHINE
Dimitri G. Soussloff, Warwick, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application January 12, 1949, Serial No. 70,463
29 Claims. (Cl. 242—18)



1. In a winding machine, a plurality of winding spindles, driving means for independently rotating each spindle, yarn-guiding means for successively traversing the yarn relatively of one spindle and then relatively of another spindle, means for continuously reciprocating the yarn-guiding means, separate cams for feeding the yarn-guiding means longitudinally of the spindles, resiliently-actuated means for transferring the yarn-guiding means from one cam to another cam, and means for automatically arresting the driving means for each spindle when the yarn-guiding means is transferred to another spindle.

2,663,508
YARN-WINDING DEVICE
Norman E. Bolly, Central Falls, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application May 2, 1949, Serial No. 90,943
13 Claims. (Cl. 242—43)



1. In combination with a driving drum, means for mounting a package for contact with the driving drum to adapt it to be rotated thereby with its axis receding from said drum during the growth of the package, a reciprocating traverse-bar, a member pivotally mounted on said bar to rock in a plane substantially parallel to its path of reciprocation, a yarn-guide pivoted to the rockable member to adapt it to swing about an axis disposed substantially perpendicular to the axis of said rockable member, means for rocking said member during the reciprocation of the traverse-bar to cause the yarn-guide be displaced inwardly from the ends of its normal traverse as it swings about its own pivot, and means to prevent the yarn-guide from turning relative to the surface of the package during the rocking of said member.

2,663,509
MOTION-PICTURE FILM WINDER
Alva K. Hinchman, Bryn Mawr, Pa.
Application July 21, 1949, Serial No. 106,051
1 Claim. (Cl. 242—55)



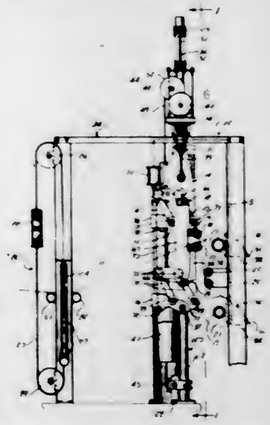
In a motion picture film winder, a reel holder for detachable mounting on the end of a revolvable shaft and comprising a collar slidable over the shaft, a substantially square neck projecting from an end of said collar, a trunnion extending from the end of said neck opposite the collar, a resilient spacing means composed of a pair of discs having substantially aligned central square holes to snugly fit the square neck and a coil spring having each end secured to one of said discs, and a holding means on the distal end of said trunnion to engage a reel mounted on the trunnion in engagement with the resilient spacing means.

2,663,510
TAPE DISPENSER
Henry W. Rodgers, Grinnell, Iowa
Application June 8, 1951, Serial No. 230,446
8 Claims. (Cl. 242—55.5)



1. A tape dispenser comprising a casing including a pair of side walls maintained in spaced relation by an interconnecting front wall, said side walls each having an elongated groove formed therein, each groove being in opposing relation to the groove in the opposite side wall, a pair of tape holding disks engageable with the opposite sides of a roll of tape, and resilient means interconnecting said disks and being frictionally engaged between said side walls in said grooves for supporting said tape within the casing.

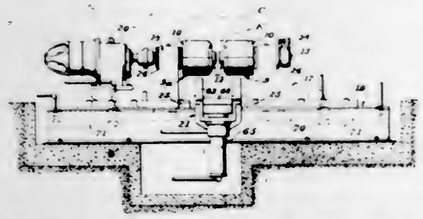
2,663,511
WINDING APPARATUS
Horace D. Stevens, Sarasota, Fla., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 26, 1951, Serial No. 263,271
9 Claims. (Cl. 242—56)



1. Apparatus for continuously winding sheet material, comprising a plurality of fixed wind-up spindles, a carriage movable to positions of delivery adjacent said wind-up spindles, said sheet passing through said carriage before winding on said spindles, means mounted on said carriage to press the sheet passing therethrough into

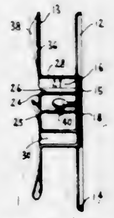
adhesive engagement with one of said spindles while said sheet is still winding on a second of said spindles, and a knife mounted on said carriage operable subsequent to the engagement of said one roll and said one spindle and adapted to sever the sheet momentarily stretched between said two spindles.

2,663,512
REEL MECHANISM
John E. Erhardt, Jr., Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application July 10, 1947, Serial No. 759,952
8 Claims. (Cl. 242—58)



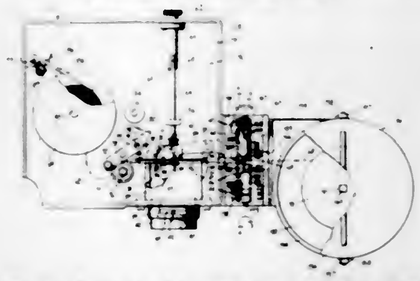
1. In a reel mechanism, a bed, a pair of housings movable toward and away from each other along a line lengthwise of said bed, a coil supporting head carried by each housing, said heads including radially movable coil engaging elements, each of said heads being provided with an axially movable member, said members being opposed and arranged to contact with each other, and means operatively connecting said members to said elements to control the radial position of the latter.

2,663,513
FILM REEL CONSTRUCTION
John F. Herrmann, Cheektowaga, and William A. Gilbert, Snyder, N. Y., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 9, 1951, Serial No. 255,684
7 Claims. (Cl. 242—70)



1. A winding reel for receiving and supporting photographic strip film or the like, said reel comprising a disc member formed of relatively thin sheet material and having a sprocket opening located centrally therein, hub-forming means formed of relatively thin sheet material and comprising a web portion having a sprocket opening located centrally therein and a plurality of leg portions of appreciable length extending laterally therefrom, means fixedly securing said leg portions to said disc member with said web portion disposed in generally parallel relation to said disc member and with said second sprocket opening in spaced aligned relation to said first sprocket opening, a plurality of film supporting portions formed of relatively thin sheet material and arranged in spaced relation to each other and secured to said disc member outwardly of said leg portions, said film supporting portions extending outwardly from said disc member in spaced generally parallel relation to said leg portions so as to form a slot between said hub-forming means and each film supporting portion which is open at one side of the reel for receiving strip film being inserted laterally therein, and a segmental portion formed of relatively thin sheet material carried on the outer part of each of said film supporting portions, said segmental portions being in spaced relation to each other and each segmental portion extending outwardly in a direction generally parallel to said disc member and in such spaced relation thereto as to receive said strip film as it extends out of said slot and is wound about said film supporting portions.

2,663,514
CUTTER FOR FILM TAKE-UP MAGAZINES
Donald Wesley McArthur, Salt Lake City, Utah, assignor to Filmsort Inc., a corporation of Delaware
Application September 29, 1950, Serial No. 187,516
10 Claims. (Cl. 242—71)

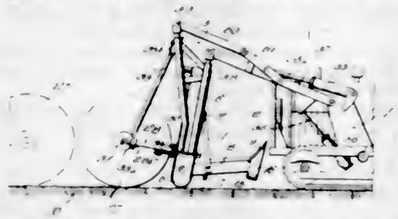


5. In a photographic camera, a casing within which exposures may be made successively on and along the length of an intermittently advanced strip of film and having a transversely disposed film discharge passage in a wall thereof, said passage having an edge thereof at one side of the film strip formed as a cutting edge, a film take-up magazine mounted on the casing adjacent said wall for removal from said casing through relative rotation thereof about an axis extending parallel to the direction of movement of the film strip out of said casing and into said magazine, said magazine having a transversely disposed film inlet passage in a wall thereof opposed to said casing wall, said inlet passage normally registering with said discharge passage, a knife plate operatively mounted on said casing wall exteriorly thereof and at the side of the film strip opposite the cutting edge of said discharge passage, and means on said magazine wall and operatively connected to said knife plate for moving the latter relative to said casing wall across said discharge passage and the cutting edge thereof when said magazine is rotated relative to the casing in the removal thereof from said casing, whereby the film strip is severed at said discharge passage and the latter passage is closed by said knife plate to exclude light from entering said casing.

2,663,515
EXCAVATING AND CABLE LAYING MACHINE
Andrew S. Kinsinger, Gordonville, Pa.
Application February 13, 1951, Serial No. 210,679
8 Claims. (Cl. 242—90)

1. An attachment for tractors of the type including a hydraulically controlled manipulator

terminating in quadrilaterally spaced pivotal connections, a manipulator frame connected with said pivotal connections, a manipulator beam carried by said manipulator frame, certain of said pivotal connections constituting detachable coupling means for dropping said manipulator frame with respect to the manipulator on the tractor, a transversely extending yoke carried by said manipulator frame, pintles secured in the ex-



tremities of said yoke for receiving a transversely extending bar therethrough and a cable drum journalled on said bar, the projection of said yoke from said manipulator beam being such that a cable drum may be rolled into position and attached to said yoke while said beam is in dropped position with respect to said tractor and the cable drum elevated by said manipulator beam when said manipulator frame is coupled with said manipulator.

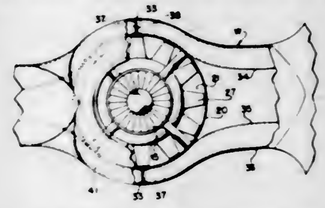
2,663,516
STRAND GUIDE
Alphonse F. Pieper, Brighton, N. Y.
Application May 3, 1952, Serial No. 285,835
6 Claims. (Cl. 242—157)



1. A strand guide including an eye of hard abrasion-resistant material consisting of spaced side portions with an opening therebetween and connecting guiding portions at the inner and outer ends of said opening, said guiding portions being cut away on opposite sides of the eye affording strand-receiving grooves extending longitudinally of the eye, one of said side portions having a lateral slot to permit inserting a strand into the eye, and a metal holder including a base underlying and extending over the inner end of the eye and a substantial area of the inner end of said slotted side portion, said base also extending over the opposite side portion and said holder including fastening means at points adjacent to the outer end of said opening having interlocking engagement with the top and bottom surfaces of said opposite side portion of the eye both endwise and laterally thereof and acting to prevent movement of the eye in any direction relatively to the holder.

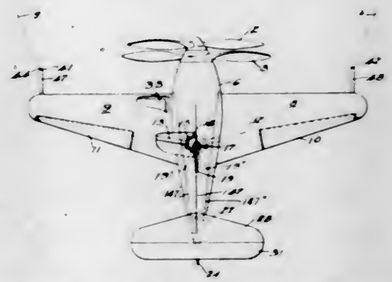
2,663,517
AIRCRAFT POWER PLANT INSTALLATION
Nathan C. Price, St. Helena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application October 11, 1949, Serial No. 120,793
18 Claims. (Cl. 244—15)

14. An airplane including a wing having two sections with a cavity therebetween, a mounting frame in the cavity, powerplant means carried by the frame, and means connecting the sections



and disconnectable to allow relative movement between the sections to expose the frame and powerplant means.

2,663,518
AIRCRAFT CONTROL
Glenn Muffly, Springfield, Ohio
Application December 24, 1948, Serial No. 67,188
12 Claims. (Cl. 244—77)

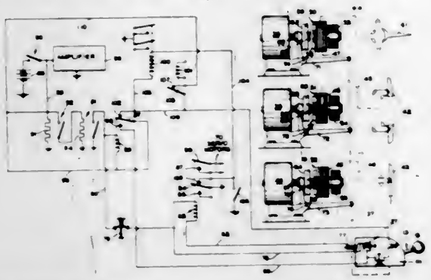


1. On an aircraft, a safety control system including a pair of directional receivers arranged with divergent cones of reception, means carried by said aircraft for radiating energy of wave form, said receivers having their peaks of receptivity above the frequency of a major part of said radiated energy and thus being adapted for response to reflections of said radiated energy only when received with its frequency increased by reflection from a relatively approaching object, means for amplifying the received reflections, and steering means for said aircraft, said steering means including power means responsive to the amplified output of the one of said receivers having the greater output to guide said aircraft away from the direction of said object.

2,663,519
ENGAGEMENT STATION FOR AUTOMATIC PILOTS
Francis Henry S. Rossire, Leonia, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application January 13, 1950, Serial No. 138,423
10 Claims. (Cl. 244—77)

1. In combination, an automatic steering system for operating a craft control surface, means operatively associated with said system for bringing said system from an ineffective to an effective condition, clutch means operatively associated with said system and surface and having an engaged position for connecting said system with said surface and having a dis-engaged position for disconnecting said system from said surface, an engagement station for operating said clutch means and comprising a movable member operatively connected to said clutch means and hav-

ing an engaged position and a dis-engaged position, said member being operable in its engaged position to operate said clutch means for connecting said system with said surface and in its disengaged position for disconnecting said system from said surface, control means engageable with and operated by movement of said member to its engaged position, holding means



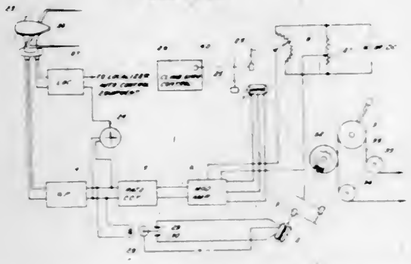
engageable with said member and actuated by said control means upon movement of said member to the engaged position thereof for maintaining said member in its engaged position, and means connected to said system and control means for making said control means ineffective to actuate said holding means until said system has been brought to an effective condition.

2,663,520

GLIDE PATH CONTROL SYSTEM

Francis L. Moseley, Osborn, Ohio, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application March 3, 1945, Serial No. 580,789
19 Claims. (Cl. 244—77)
(Granted under Title 35, U. S. Code (1952), sec. 266)



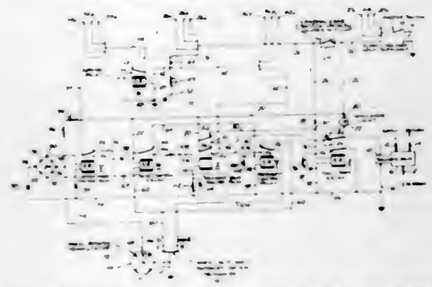
1. A radio-controlled system for automatically guiding the vertical flight of an aircraft with respect to the ground and within a radio-defined region of the type having an equi-signal glide-path-defining line produced by a radio transmitter on the ground, and comprising in combination a radio receiver on the aircraft effective when said aircraft enters said region and responsive to the position of the aircraft above or below said line to produce corresponding positional signals of different magnitude and polarity, first electromagnetic means connected to said receiver and responsive to said signals to change the direction of the aircraft flight controls to head the aircraft towards said line, means to generate a follow-up signal to oppose said positional signal for causing said aircraft flight controls to return to their original setting at the time the aircraft entered said region, a speed control throttle on the aircraft and additional electromagnetic means automatically responsive to said signals for actuating the speed control throttle of the aircraft to control the aircraft's rate of descent or ascent necessary to bring it on to said line and to maintain it on said line substantially independent of head or tail winds acting on the aircraft.

2,663,521

AIRPLANE LANDING WHEEL BRAKE CONTROL APPARATUS

Gordon W. Yarber, near Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware

Application April 20, 1951, Serial No. 222,049
13 Claims. (Cl. 244—111)



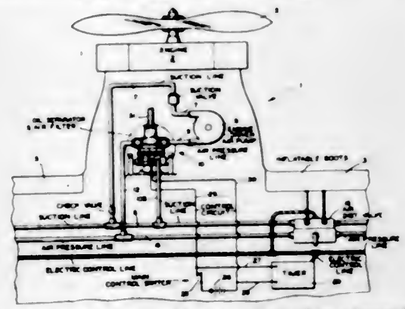
1. In an automatic wheel brake control system, the combination comprising normally inoperative brake-release means operable by actuation thereof to effect release of the brake, automatic skid-preventing means of a type requiring wheel rotation for the control of such means, operatively connected to said brake-release means for actuating the same in response to incipient skidding of the wheel, and locked-wheel preventing means operatively connected to said brake-release means and controlled by wheel rotation independently of said skid-preventing means, said locked-wheel preventing means operating automatically in response to the condition of a substantially non-rotating wheel to actuate said brake-release means and thereby prevent wheel lock incapable of detection by said skid-preventing means.

2,663,522

OIL SEPARATOR AND PRESSURE REGULATING DEVICE FOR AIRCRAFT ICE ELIMINATING SYSTEMS

Donald M. Lawrence, Wood Ridge, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application March 11, 1947, Serial No. 733,960
14 Claims. (Cl. 244—134)



12. An ice eliminating system for aircraft of the class including a plurality of inflatable boots

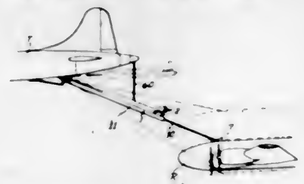
formed of a rubber-like material and mounted on airfoil surfaces of said aircraft, a pump for providing a source of super-atmospheric air pressure for inflating said boots, means for removing oil from the air from said pump, said means connected between said pump and said boots, and an air discharge conduit for said pump leading to the atmosphere; characterized by the fact that there is combined with said oil removing means a valve means for alternately connecting the superatmospheric air pressure from said pump to said discharge conduit or to said inflatable boots through said oil removing means, and differential pressure responsive means effective under said last mentioned condition for operating said valve means so as to regulate said discharge conduit to maintain the superatmospheric air pressure to said boots at a pressure in excess of prevailing atmospheric pressure by a predetermined value.

2,663,523

AIRCRAFT INTERCONNECTING MECHANISM

Clifford J. Leisy, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware

Application August 2, 1949, Serial No. 108,070
21 Claims. (Cl. 244—135)



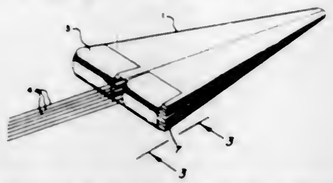
1. In combination, a tanker airplane and refueling mechanism for transferring fuel from such tanker airplane to a receiving airplane, said refueling mechanism comprising a longitudinally stiff tubular boom, means carried by said tanker airplane and supporting the forward portion of said tubular boom for disposition of said boom in trailing attitude and capable of universal swinging movement within limits, and means operatively connected to said boom and operable from within the tanker airplane to effect swinging of said boom for contact of the trailing end thereof with the receiving airplane.

2,663,524

PARACHUTE FLAP

Prevost F. Smith, San Diego, Calif.

Application August 21, 1950, Serial No. 180,535
8 Claims. (Cl. 244—148)



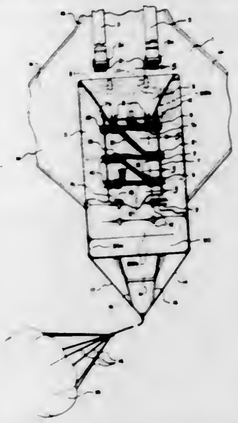
6. A parachute arranged in folded pleated position, having suspension lines arranged at the middle thereof, and a pair of flexible flaps secured to the peripheral skirt of said parachute on one side thereof and folded over the open ends of said pleats at the mouth of the parachute to the opposite side of the folded structure of said parachute.

2,663,525

PARACHUTE PACK

James Floyd Smith, Glendale, Calif.

Application October 21, 1950, Serial No. 191,479
14 Claims. (Cl. 244—148)



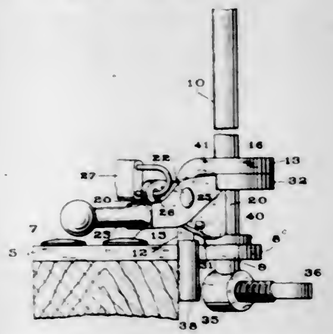
13. A parachute having suspension lines and a container therefor, said container having opposing flaps on one side of the container and an apertured flap, loops on the free edges of said opposing flaps, loops attached to the inner surface of the opposite side of said container and passing through the first mentioned loops and through said apertured flap, said lines having portions thereof releasably inserted through the second mentioned loops outwardly of said apertured flap.

2,663,526

RAILROAD TRACK APPLIANCE

Stanley W. Hayes, Richmond, Ind., assignor to Hayes Track Appliance Company, Richmond, Ind., a corporation of Indiana

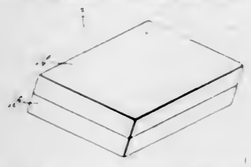
Application February 8, 1950, Serial No. 143,049
1 Claim. (Cl. 246—393)



In an operating stand for railway track appliances, a pair of plates spaced one above the other and having aligned bearing holes, an operating shaft extending vertically through the aligned holes, the lower of said plates lying on and extending beyond the side of a single railroad tie, the upper of said plates extending only beyond the side of the tie on which the lower plate rests, said plates being of equal length along the tie, a vertical plate integral with said upper and lower plates lying in a plane parallel with the side of the tie and of equal length along the tie with the

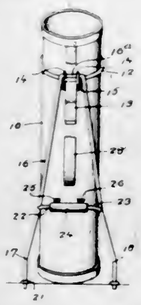
upper and lower plates, a pair of spaced vertical lugs secured to the vertical edges of said vertical plate and extending downwardly against the side of and below the top surface of the supporting tie, the bottom plate being provided with a spike hole through which a spike may be driven into the tie to cooperate with the lugs to prevent the operating stand from being rotated on the tie.

2,663,527
DISPLAY DEVICE
Stuart S. Joslyn, Chester, Conn., assignor to C. J. Bates & Son, Chester, Conn., a firm composed of Hamilton C. Bates, Wells C. Bates, and Hamilton C. Bates, Jr.
Application October 10, 1951, Serial No. 250,733
1 Claim. (Cl. 248—1)



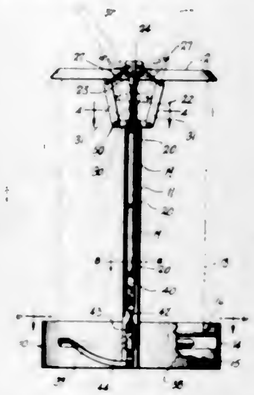
As a new article of manufacture, a display device comprising in combination, a unitary relatively rigid body formed from plastic material adapted to be impinged by implements, said body having opposite and adjacent side portions provided with a continuous relatively narrow groove therearound extending inwardly of said side portions and providing opposed substantially rigid friction faces at opposite sides of said groove, covering members formed from flexible material covering said body and disposed on the sides of said body with each of the adjacent marginal edges thereof in superposed relation in said groove and frictionally engaged by the friction faces thereof throughout the entire length thereof to hold said covering members from displacement on said body.

2,663,528
GOLF BAG SUPPORT
Clifford M. Hadley, Chicago, Ill.
Application May 11, 1948, Serial No. 26,450
1 Claim. (Cl. 248—96)



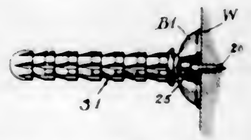
In a golf bag support, a curved spring clamp, a pair of spaced eye bolts secured to said clamp, a bar extending between said eye bolts and detachably connected thereto, a prop of substantially U-shaped including a closed end pivotally mounted in said eye bolts, said prop including a pair of spaced apart legs, stop flanges spaced from the lower ends of said legs for limiting movement of the legs into the ground, arms extending inwardly from said legs, a sleeve adjustably connecting said arms together, the portion of the legs below the sleeve being arranged in angular relation with respect to each other and being spaced apart a distance greater than the width of a golf bag.

2,663,529
RECEPTACLE BASE AND COVER OPERATING MECHANISM
Ernest V. Lyttaker, North Puyallup, Wash.
Application August 20, 1949, Serial No. 111,430
6 Claims. (Cl. 248—147)



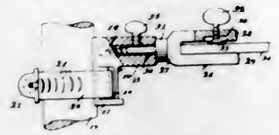
1. A receptacle mounting and cover comprising a base on which a receptacle may be disposed, a standard fixed to the base to extend to the top of the receptacle, when disposed on the base, and a horizontal arm fixed to the standard at its upper end adapted to extend across the top of the receptacle, cover sections for the receptacle longitudinally hinged to the arm, a foot treadle pivoted on the base and an operating mechanism connecting the foot treadle and the hinged cover sections for the raising thereof incident to the movement of the foot treadle.

2,663,530
ARTICLE WALL HANGER
Raymond C. Nye, Los Angeles, Calif.
Application March 11, 1952, Serial No. 275,955
1 Claim. (Cl. 248—206)



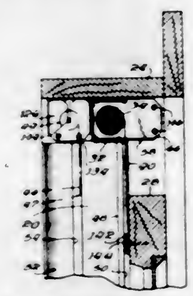
A wall hanger for towels and the like, including: a wall attaching body; a linear stem fixed at one end to said body so as to be supported horizontally on a wall by said body; and teeth on the stem arranged in rows extending lengthwise of the stem and spaced circumferentially thereof, the teeth of each row spaced one from the other, and each tooth having an edge substantially perpendicular to the stem; the stem of resilient rubber to allow downward bending thereof under the weight of a towel hung thereon causing greater spacing of the teeth of that row at the top side of the stem thus allowing parts of the towel to sink between the teeth and thereby increasing the towel-gripping action of the teeth edges.

2,663,531
MOUNTING FOR EASELS
Aldo T. Rubano, New York, N. Y.
Application December 8, 1950, Serial No. 199,794
1 Claim. (Cl. 248—231)



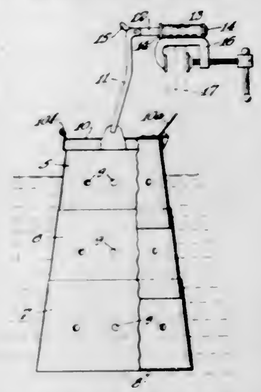
A device of the character described comprising a base member having a vertical arm and a lateral arm, said vertical arm having a laterally extending passageway therethrough, a clamp extending through said passageway for holding said base member upon pole-like objects, and a bracket removably and adjustably carried by said base member, said vertical arm having a concave inner face, said lateral arm having an inwardly directed recess, a set screw extending through a portion of said lateral arm into said recess, said bracket including a U-shaped member, a set screw extending through one arm of said U-shaped member, and a screw affixed to the outer side of the bight portion of said U-shaped member and receivable in the recess of said lateral arm, and said passageway having an outer wall having a flat plane surface and an inner wall of convex shape.

2,663,532
WINDOW CONSTRUCTION
Charles L. Wells, Torrance, Calif.
Application April 25, 1952, Serial No. 284,240
5 Claims. (Cl. 248—268)



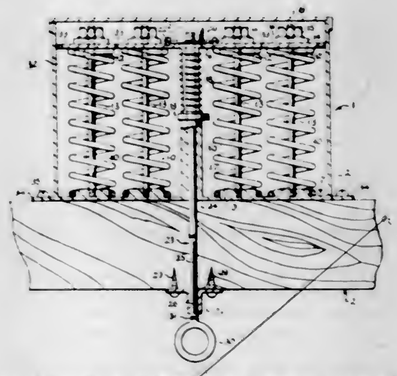
1. In a window construction which includes side frames, means for mounting a roller having a shaft protruding from each of its ends, comprising: a first plate securable to one of said side frames, said plate being formed with an elongate slot which extends inwardly from one of its edges to a point intermediate its edges; a second plate securable to said one of said side frames in abutting relationship to said first plate, said second plate being formed with a complementary elongate slot extending from one of its edges to a point intermediate its edges; and a third plate formed with a socket for receiving the shaft protruding from one end of said roller, said roller being adapted to be mounted between said side frames by initially inserting the shaft which protrudes from said one end of said roller within the socket formed in said third plate, then inserting the opposite shaft in the elongate slot formed in said first plate, and thereafter applying said second plate in abutting relationship with said first plate, said opposite shaft being insertable within said complementary elongate slot in order that the end of said slots may cooperate to form a socket for positively positioning said opposite shaft relative to said frames.

2,663,533
ATTACHMENT ASSEMBLY FOR LIVE BOXES
Edward W. Keiser and Andrew F. Kieser, Minneapolis, Minn.
Application September 30, 1949, Serial No. 118,796
1 Claim. (Cl. 248—284)



An attachment assembly particularly constructed for connecting a live box to a boat, said assembly comprising a handle member adapted to be pivotally mounted for swinging movement on the top of the live box, a shaft transversely pivoted to said handle member, a sleeve freely journalling said shaft to permit unrestricted rotation of the shaft therein, thrust resisting means associated with said shaft and said sleeve to prevent longitudinal shifting movement of one relative to the other, all of said pivotal connections permitting unrestricted swinging movement between the respective interconnected members, and a clamping member fixed to said sleeve to securely attach the same to the gunwale of a boat.

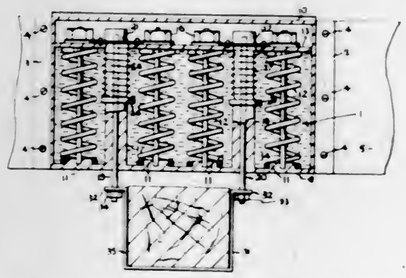
2,663,534
HYDRAULIC SPRING HANGER
Edward R. Hinckle, Dorchester, Mass.
Application November 21, 1951, Serial No. 257,619
8 Claims. (Cl. 248—317)



1. An hydraulic suspension hanger comprising a casing having side walls and a bottom, a plate within said casing having its periphery extending to the side walls thereof providing a sliding fit

between the plate and the side walls of the casing, a plurality of coiled spring means projecting upward from the bottom of the casing and downward from said plates for locating the springs in fixed positions, said springs suspending and supporting said plate within said casing, a plurality of rods, one for each of said springs having one end fixed in the bottom of the casing and the other end extending through said plate, said rods being coaxial with the axis of the coiled springs, means forming a well projecting upward from the bottom of the casing with its axis symmetrically positioned with respect to said casing, a shaft element coaxial with said well and having a sliding fit therein, said shaft element extending upward through said well into said plate, means for fixing the said shaft to said plate, an hydraulic medium filling the casing substantially up to said plate, a flexible compressible elastic sleeve attached at one end to the top of said well and at the other end to said plate for preventing liquids from leaking out of said well, said shaft extending below the bottom of the housing and terminating in a hook cooperative element.

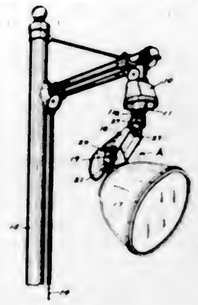
2,663,535
HYDRAULIC SPRING HANGER
Edward R. Hinckle, Dorchester, Mass.
Application May 28, 1952, Serial No. 290,524
4 Claims. (Cl. 248—317)



1. An hydraulic hanger suspension adapted for installation in moving vehicles for beef transportation comprising a housing having means for fixed attachment thereof to a wall of a vehicle, a U-shaped supporting bracket adapted to girdle and support a beam, rod members extending through the bottom of the housing attached parallelly one to each side of the U-shaped supporting bracket, a plate member having a sliding fit in the housing, means securing said rod members to said plate, a plurality of springs acting between said plate member and the bottom of the housing, and hydraulic liquid means filling the space between the plate member and the bottom of the housing.

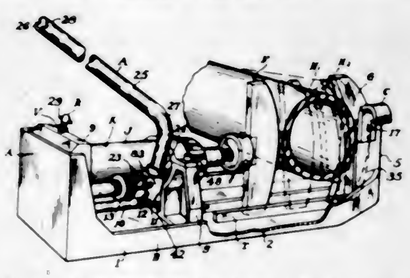
2,663,536
GRAVITY SUSPENSION HANGER
Robert K. Farrington, Shaker Heights, Thayer B. Farrington, Cleveland Heights, and Richard F. Kurzenberger, Cleveland, Ohio, assignors to The Thompson Electric Company, Cleveland, Ohio, a corporation of Ohio
Application September 15, 1950, Serial No. 184,955
5 Claims. (Cl. 248—320)

1. In combination, a bail for suspending an article, means for holding said bail fixed relative to said article at various adjustable angles, means for suspending said bail from overhead including a flexible tension member defining an axis of suspension, two fixtures and releasable securing means connecting them for relative oscillation into any angular position in a zone of oscillation, said fixtures and securing means including a horizontal pivot as an axis for said oscillation, one of said fixtures being attached



to said tension member, the other of said fixtures being attached to said bail, and said securing means adapted to secure said fixtures firmly together with the axis of suspension of said tension member passing through the center of gravity of said article.

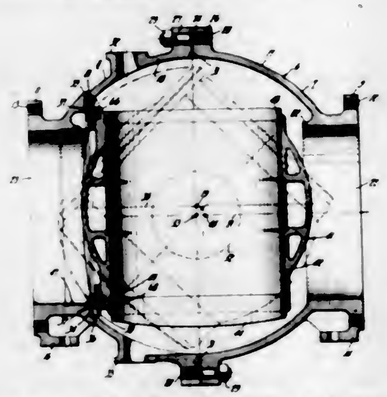
2,663,537
PORTABLE HOSE SHUTOFF DEVICE
Ovila J. Gagne, Manchester, N. H.
Application August 20, 1948, Serial No. 45,292
5 Claims. (Cl. 251—5)



1. A portable emergency shut-off device for a high pressure fire hose, said device comprising a supporting member including a base with two sides and two ends, a jack base holder extending up from one end having an end wall and side walls, a jack holding yoke extending up from near the middle of said member and a hose jaw holding member extending up from the other end and including a handle end holder; a concave hose jaw member pivoted to the hose jaw holding member; an hydraulic jack including a body with a base positioned in the base holder, a cylinder attached to the jack holding yoke by a strap, a piston rod projecting from the cylinder, a pump assembly operatively connected to a handle carrier, said carrier being pivoted to the jack body and including a handle socket extension; an operating handle having a shank and a bent socket end turnable in and engaging said extension and a free handle end adapted to engage the handle end holder to retain the handle shank in substantial parallel alignment with the base of the supporting member for carrying the device, the handle being so shaped and the carrier being so pivoted that when the free end is released from its holder and it is turned in its socket, the free end is moved in an arc substantially parallel to the base of the supporting member and in its pumping operation is moved in a plane normal

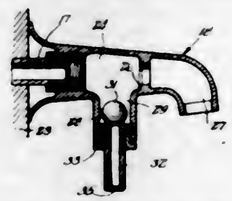
to said base; and a convex jaw member fixed to the projecting piston rod whereby the last named jaw member may be moved towards the other jaw member to pinch a hose placed between them when the hydraulic jack is operated by the handle.

2,663,538
SPHERICAL VALVE
Ray Bacchi, San Francisco, Calif., assignor to The Pelton Water Wheel Company, San Francisco, Calif., a corporation of California
Application March 29, 1948, Serial No. 17,732
8 Claims. (Cl. 251—113)



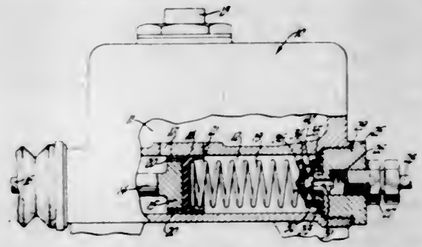
1. A spherical valve comprising a casing having an inlet and an outlet alined on a longitudinal axis, a seat ring having a first sealing surface encompassing said outlet and disposed on said casing with its center displaced from said axis, a rotor journalled in said casing to turn about a transverse axis intersecting said longitudinal axis, and a rotor ring having a second sealing surface on said rotor adapted in one position of said rotor to abut said first sealing surface on said seat ring.

2,663,539
DIVERTER SPOUT PLUMBING FIXTURE
Samuel Kersten and Alton F. Sautter, Chicago, Ill.; said Sautter assignor to said Kersten
Application October 27, 1948, Serial No. 56,744
2 Claims. (Cl. 251—118)



1. A plumbing fixture in the form of a diverter spout comprising a body portion having a lower generally tubular recess, a water discharge outlet, a water inlet, a valve seat disposed in the flow path on the outlet side and in proximity to the said recess, a ball valve in the recess normally out of the path of the water as it flows to said outlet and adapted to be forced against the said seat when introduced into the path of the flowing water stream, and an actuating member projecting downwardly from the said recess and adapted to be raised to elevate the ball valve into the path of the stream for lodgment against the said valve seat, said actuating member having a tubular portion projecting downwardly through the body, an upper annular flange and a seat for the ball, a recess at the bottom of the tubular portion, means communicating said recess with the atmosphere to function as a continuous bleeder while the ball valve is against the first-mentioned seat, but closed when the ball is against the second-mentioned seat.

2,663,540
CHECK VALVE FOR MASTER CYLINDERS
Anton F. Erickson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 24, 1949, Serial No. 111,998
6 Claims. (Cl. 251—119)

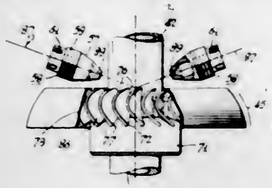


1. In a valve mechanism, a body having a passage, a valve seat having a port in said passage, a check valve having a cup-shaped frame, a plurally apertured cage element and a movable valve member, said cup-shaped frame including a base having a plurality of apertures therein, a sealing edge located adjacent the edge of the cup-shaped frame opposite from said base and adapted to engage said seat, said cage element being located within and secured to said cup-shaped frame member in spaced relation to said seat, said movable valve member being positioned between said frame and said cage element and normally biased to a position engaging said frame and covering said frame apertures to prevent flow from said port and said cage apertures through said frame apertures, said valve member being movable from said position to a valve open position to permit flow through said frame and cage apertures to said port, said cage apertures being disposed with respect to said movable valve member to permit free flow through said cage apertures at all times during normal operation, and cooperating surfaces and projections on the adjacent facing surfaces of said valve cage and said valve seat to prevent seating under all conditions of failure when said cage may contact with said seat to permit flow through said cage apertures in the valve open position.

2,663,541
HYDRAULIC MOTOR
Cory P. Geen, Philadelphia, Pa., assignor to Industrial Devices, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania
Application September 11, 1950, Serial No. 184,284
14 Claims. (Cl. 253—3)

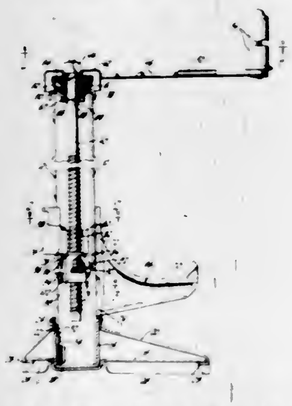
1. A liquid powered single stage impulse-reaction turbine comprising in combination: (A) a rotor comprising: a hub, a plurality of concavo-convex vanes extending radially from said hub in equal circumferentially-spaced relation, the axial extent of the outer ends of said vanes being substantially greater than the axial extent of

the inner ends of said vanes and the outwardly extending median lines on the concavo-convex surfaces of said vanes extending chordwise of the rotor, (B) a nozzle arranged to project a power stream of liquid at an acute angle to the front face of the rotor, said turbine being characterized further in that the stream intercepting



faces of the vanes when in stream-intercepting position are substantially parallel to the axis of the nozzle orifice, and the circumferential spacing of the vanes is such that the power stream of liquid can impinge on only those portions of the work faces of the vanes which lie between the radial median lines of the vanes and the stream intercepting edges thereof.

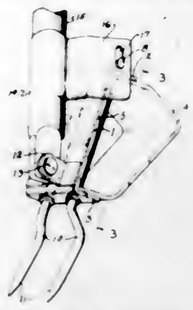
2,663,542
JACK
Clovis W. Lincoln, Godfrey G. Kearful, and David A. Galonska, Saginaw, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 6, 1949, Serial No. 108,906
9 Claims. (Cl. 254—100)



1. In a jack, a supporting column having a slot, a screw rotatably supported on said column, a nut on said screw, a load hook supported on said nut, a member extending from said nut into said slot, and a fastener hook engaging said load hook and said member to prevent excessive separation of said load hook and nut.

2,663,543
WEED PULLER
James T. W. Moseley, Richmond Heights, Mo.
Application November 5, 1951, Serial No. 254,953
5 Claims. (Cl. 254—132)

1. In a weed puller, a frame carrying a pair of spikes rotatably mounted on the frame and having lever portions constructed and arranged to move the spike portions toward and away from each other, an operating handle connected to said frame and having a camming portion in operative engagement with said lever portions, said frame including a pressure plate constructed



and arranged to act as a fulcrum between said handle and said spike members.

ERRATUM

For Class 254—134.3 see
Patent No. 2,663,748

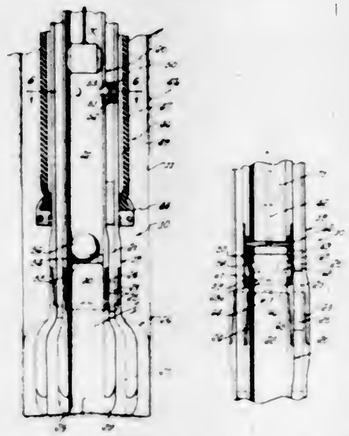
2,663,544
CABLE LASHING MACHINE
Joseph J. Harley, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 27, 1951, Serial No. 263,675
14 Claims. (Cl. 254—134.3)



1. A machine for securing a cable to a supporting strand which comprises a chassis having front and rear spaced apart housings, a guide plate hingedly secured to said chassis for attaching a tow line thereto, a drum rotatably supported between said housings, said drum and said housings having aligned central bores for the reception of the cable and the supporting strand, said housings and said drum having openings therein communicating with said bores to permit the machine to be placed in operative position on the supporting strand, a coil of lashing wire carried by said drum, driving wheels each mounted on an axis, in the front housing one ahead of the other and in space relation for engaging the same side of the supporting strand, an arm pivotally mounted on the chassis, means operatively associated with said arm and said guide plate for forcing said arm upwardly against said strand to cause intimate contact between said strand and said driving wheels when forward tension is applied to said guide plate, means in said front housing operatively connected to said drum and to said driving wheels for causing the rotation of said drum as said driving wheels are operated by the forward motion of the machine to cause the lashing wire carried by said drum to be wrapped around the strand and cable, means for preventing rearward movement of the machine when forward tension is released comprising a ratchet wheel operatively connected to one of said driving wheels and a dog member normally held in engagement with the teeth on

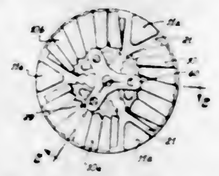
said ratchet wheel, and means on said chassis operatively connected to said guide plate for disengaging said dog from said ratchet wheel when said guide plate is moved from its normal operating position.

2,663,545
METHOD AND APPARATUS FOR WELL DRILLING AND TESTING
Donovan B. Grable, Long Beach, Calif.
Application February 16, 1952, Serial No. 271,927
15 Claims. (Cl. 255—1.4)



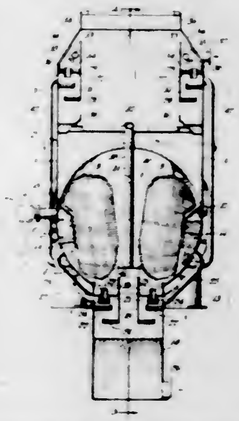
15. The method of displacing a liquid from within, and a formation sample upwardly through, a double walled string of well pipe positioned within a well and containing two passages one about the other communicating with each other and with the well through a drilling tool carried at the lower end of the string, that comprises closing the space between the string and the well bore wall near the lower end of the string, applying a compressed gas to the upper end of one of said passages, sequentially providing communication between said two passages at vertically spaced locations above said tool, whereby the liquid will be progressively displaced from the string passages by said gas, and then circulating said gas downwardly through one of said passages and to said tool and then upwardly through the other passage to the surface of the earth to elevate a sample of the earth formation to the surface by said circulation.

2,663,546
ROTARY DRILL BIT AND CUTTER
Archer W. Kammerer, Fullerton, Calif.
Application February 9, 1951, Serial No. 210,140
5 Claims. (Cl. 255—76)



1. In a rotary drill bit: a body; first cutter means mounted on said body for lateral movement with respect to said body; second cutter means mounted on said body for lateral movement with respect to said body; means engaging said first cutter means and said second cutter means for positively shifting said first cutter means laterally to a greater maximum extent from the axis of said body than said second cutter means; said first cutter means including a first roller cutter which alone traverses an orbital path on the formation during rotation of said body about the body axis; said second cutter means including a second roller cutter which alone traverses an orbital path on the formation within said other orbital path during rotation of said body about the body axis; each of said cutters having peripheral teeth lying in a plane normal to the cutter axis, which teeth are disposed at an angle to other peripheral teeth lying in said plane.

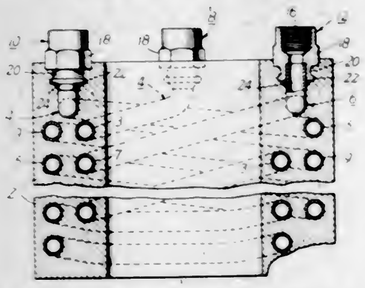
2,663,547
CONDENSER DEAERATOR
George W. Evans, Jr., Teaneck, and William E. Brockel, Verona, N. J., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware
Application May 25, 1949, Serial No. 95,352
6 Claims. (Cl. 257—43)



1. The combination of a surface condenser unit including a shell, a nest of substantially horizontal condensing tubes therein, means for circulating cooling water through the tubes, the shell having therein an inlet passage for conducting steam to the tube nest for condensation, a hot well below the tube nest to receive the steam condensate from the tubes, a deaerating device within the hot well, and air offtake means leading from a relatively cool portion of the tube nest spaced from said steam inlet passage; and deaerating apparatus integrated with said condenser unit and independent of the deaerating device within the hot well and comprising a chamber within said shell at said steam passage and spaced from the hot well, a water delivery conduit leading from outside of the condenser unit, said conduit being in delivery communication with said chamber and free from water-receiving communication with the condenser unit to deliver to the chamber heated water from an outside source, superposed, trough-like shower trays within said chamber below the delivery point of said outside water to discharge same downward therefrom in succession in fine streams, said chamber having a steam inlet below said trays open to said steam inlet passage, an air offtake conduit leading from said chamber at a level between the uppermost one of said

trays and the next lower tray, said trays being arranged to cause serpentine flow of the steam from said inlet crosswise of said streams, and said air offtake conduit leading to said relatively cool portion of the tube nest for passage of the air to said air offtake means thereof, a trough beneath said trays and below said steam inlet to collect the water discharged from the trays, and a drain connection between said trough and the deaerating device within the hot well to deliver the water thereto for further deaeration.

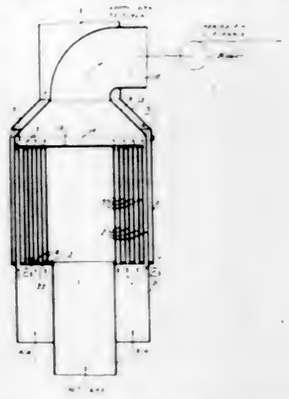
2,663,548
BEVERAGE COOLER
Cecil Boling, Brewster, N. Y., assignor to The Heat-X-Changer Co., Inc., Brewster, N. Y., a corporation of New York
Application March 20, 1948, Serial No. 16,050
5 Claims. (Cl. 257—241)



1. In a heat exchange unit for cooling a liquid, a liquid tube adapted to have a liquid to be cooled flow therethrough, a metal block surrounding said tube with each of the ends of the tube being substantially at one flat surface of the block and with the block forming a wall of substantial thickness around the entire tube between said ends, and a pair of pipe fittings positioned respectively at said ends of said tube and each rigidly fixed to its tube end whereby the two fittings provide for the flow of liquid through said tube, each of said fittings having an embedded portion which is non-circular in cross-section with flat side surfaces and which has an anchor portion which is remote from the external portion of the fitting and which projects radially outwardly with respect to the axis of the fitting with the block having a portion which mates with said anchor portion and counteracts any tendency for the fitting to move axially of the fitting away from its position with respect to said tube, each of said fittings also having an external portion which presents flat surfaces and is adapted to receive a tool and by which a liquid connection may be made through the fitting to the tube.

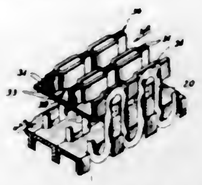
2,663,549
SPIRAL HEAT EXCHANGER
Philip S. Otten, New Rochelle, N. Y., assignor to The Griscom Russell Company, New York, N. Y., a corporation of Delaware
Application July 14, 1950, Serial No. 173,793
4 Claims. (Cl. 257—245)

1. A heat exchanger for preheating combustion air by extracting heat from flue gas comprising in combination a pair of entwined spiral plates spaced apart to form entwined spiral passages in heat exchange relation with each other, a central generally cylindrical chamber within said spirals, a central inlet conduit for flue gas coaxial and communicating with said chamber, a lower sealing sheet surrounding said conduit and closing off one of the spiral gaps between said plates at the bottom thereof, a cylindrical outer shell sealed to the lower sealing sheet enclosing said plates, a downwardly depending circumferentially continuous extension of the outermost wall of said plates substantially concentric with and surrounding said plates, an upwardly extending circumferentially continuous extension of the outermost wall of said plates, an upper sealing sheet within said upward extension sealing the top of said chamber and the spiral gap at the top of



the plates forming the passageway which is sealed by said lower sheet, an exhaust stack for flue gas sealed to the top of said outer shell, and a delivery pipe for heated air sealed to the top of said upward extension, whereby flue gas entering the chamber from the conduit moves spirally outward through the passage formed between the upper and lower sheets to the space between the shell and the plates and thence upward to the stack and the air entering the downwardly depending extension moves axially upward between the unsealed plates into the upwardly extending extension.

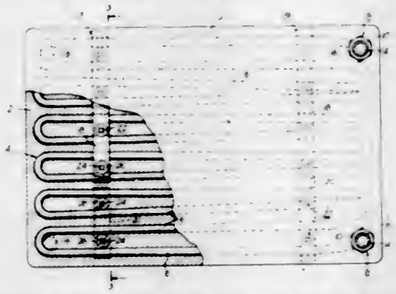
2,663,550
HEAT EXCHANGER ENVELOPE COMPRISING NOTCHED CHANNELS MOUNTING SINUOUS FIN ELEMENTS
William E. Hammond, Wellsville, and Clayton A. Ballard, Belmont, N. Y., assignors to The Air Preheater Corporation, New York, N. Y.
Application May 22, 1951, Serial No. 227,678
5 Claims. (Cl. 257—245)



1. An envelope component for a heat exchanger comprising two parallel rows of metallic channels positioned in abutment in side by side relation so that the bases of channels in each row aline to constitute a wall of a fluid passage within the envelope with the channel legs extending from the outer faces of the envelope as longitudinal fins, contiguous channels being formed with open ended recesses that confront each other so as to receive and to support between them in

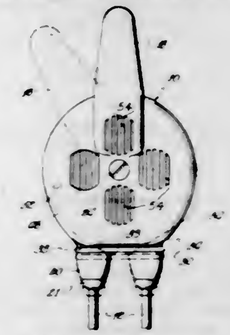
upright relation in said passage and parallel to the direction of flow therein a wire element sinuously bent into U-shaped loops whose legs extend back and forth across said passage and constitute pin-fin extended surface of the walls thereof with the stretcher portions of said loops located near the open ends of said recesses and exposed to the fluid on the other side of said wall.

2,663,551
PLATE COOLER
Cecil Boling, Brewster, N. Y., assignor to The Heat-X-Changer Co., Inc., Brewster, N. Y., a corporation of New York
Application August 16, 1949, Serial No. 110,588
3 Claims. (Cl. 257—248)



1. In a heat exchange unit of the character described, the combination of, a liquid tube adapted to have a liquid flow therethrough for the carrying on of a heat transfer operation, said tube being bent into the form of a flat tube configuration with the tube having its axis substantially in a single plane and with the tube being substantially confined between two parallel planes which are spaced apart a distance equal to the outside diameter of the tube, said tube having successive portions which extend in a predetermined spaced relationship with respect to each other, a pair of fittings attached respectively to the ends of said tube, one of said fittings comprises a metal block which has a radial opening into which the end of the tube extends and an axial passageway connected thereto to provide the fluid connection with said end of the tube, said last-mentioned fitting having a portion which is non-circular in cross-section and has flat side surfaces, said last-mentioned fitting having an anchor portion to which the tube end is attached and having a connecting portion remote therefrom and projecting from the axis of the tube end, a block of cast aluminum surrounding said tube with a wall thickness sufficient to withstand substantial forces within the tube and surrounding intimately the entire external surface of the tube between said fittings and enclosing said anchor portion of said last-mentioned fitting with the connecting portion thereof projecting from a surface of said block and providing a fluid connection through said fitting to the tube, said anchor portion of the fitting and the tube end providing a rigid anchor within the block with an interlocking relationship which prevents axial and turning movement of the fitting with respect to the block, and an embedded clamping structure for said tube comprising a plurality of strips and strip-holding means, said strips being in parallel mating sets with the strips of each set extending upon the two sides of the coil along said parallel planes with each strip extending across a plurality of said successive portions of the tube transversely thereto and along one of said parallel planes and each strip being substantially straight throughout the zones of contact with the tube, said strip-holding means interconnecting the mating strips and extending therebetween to hold the strips rigidly against the tube, said strip-holding means being out of contact with the tube and the strips and the holding means forming a structure which permits the entry of molten aluminum during the casting operation.

2,663,552
POWER MIXER UNIT
Fred C. Schwaneke, Chicago, Ill., assignor to Dormeyer Corporation, Chicago, Ill., a corporation of Illinois
Application September 22, 1951, Serial No. 247,794
16 Claims. (Cl. 259—1)

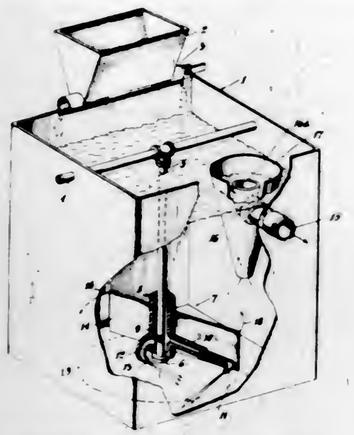


1. A mixer power unit having a casing open at the front end, a rotatable end bell having a power take-off socket opening therein and covering said open end, a handle attached to said end bell for rotating same, a cam surface on the periphery of said end bell normally disposed near the bottom of same, a pair of beater spindles within said casing, a pair of beaters, means releasably retaining the shafts of said beaters in said spindles in drive relationship, a beater ejector element resiliently mounted on the bottom of the front end of said casing and adapted to be engaged by said cam and moved downwardly as said handle is moved downwardly from an upright position, said beater ejector element having a sleeve portion surrounding each of said beaters which engages abutting shoulders on the beaters to force same downwardly out of said spindles when the ejector element moves downwardly, and a power take-off socket in said unit to one side of the center of said end bell, said opening being so located in said end bell as to be aligned with said socket when said handle is rotated away from said upright position past the position at which said cam is operative.

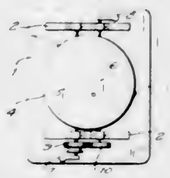
2,663,553
DISSOLVING APPARATUS
George M. Booth, Westfield, N. J., assignor to Wallace & Tiernan Co., Inc., Belleville, N. J., a corporation of New York
Application July 2, 1952, Serial No. 296,905
8 Claims. (Cl. 259—8)

1. Dissolving apparatus, comprising a tank having an inlet for solid solute particles, an inlet for liquid solvent, means to agitate the mixture of solvent and solute particles, and an outlet for liquid solution, said outlet comprising means effective to limit hydraulically the maximum size of solid particles discharged through

the outlet with the solution, said hydraulic limiting means comprising a generally vertical, upwardly divergent conduit section having an intake opening at its lower end and a discharge opening at its upper end.



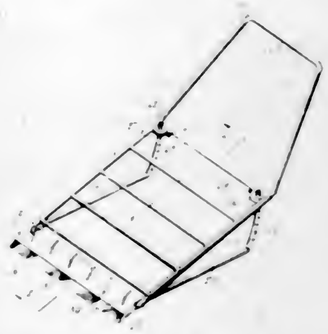
2,663,554
APPARATUS FOR IMPARTING A VIBRATING MOVEMENT TO OBJECTS OR MATTERS
Lambertus Hendrik de Langen, Delft, Netherlands
Application December 26, 1947, Serial No. 794,334
In the Netherlands March 15, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 15, 1963
6 Claims. (Cl. 259—72)



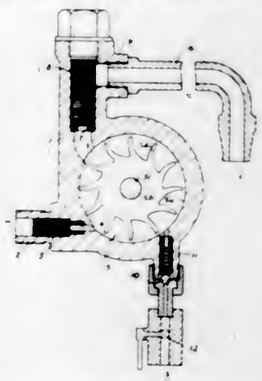
1. A vibration apparatus, comprising in combination, a base; a shaker frame; shaft means carrying said frame and freely revolvable with respect thereto; spaced spring means for revolvably supporting said shaft means on said base; eccentric masses associated with said shaft means on two opposite sides of said shaker frame; and means for imparting rotation to said shaft means and eccentric masses, the latter means imparting to said eccentric masses rotary movements of equal speed and opposite direction whereby said shaft means and shaker frame are subjected to vibrations in two planes.

2,663,555
IMPLEMENT FOR TURNING LITTER IN POULTRY HOUSES
Clair W. Milliken, Brighton, Ill.
Application August 8, 1952, Serial No. 303,437
4 Claims. (Cl. 259—144)

1. A litter turning implement comprising a U-shaped frame having its legs bent intermediate their length so that the part of said frame including the intermediate portion thereof is disposed at an angle to the portion adjacent the open end, transverse bars disposed in the portion of said frame adjacent the open end thereof and extending between said legs in spaced apart and substantially parallel relationship to each other, an elongated blade secured near its opposite ends to said legs at the open end of said frame and projecting outwardly from said frame, said blade having a beveled scraping edge remote from said frame, runners disposed one along each of said frame legs and each having one end pivotally connected to the corresponding leg adjacent said blade and an angularly disposed arm on its other end extending past the corresponding frame leg, guide rings on said frame legs near the adjoining ends of said frame portions respectively receiving said arms, and means carried by said guide rings and engaging said arms to lock said runners in selected positions of angular adjustment relative to said frame legs, said runners supporting the intermediate portion of said frame above an associated floor for use as a handle for manually pushing the implement along the floor.



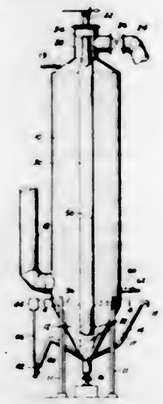
2,663,556
DEVICE FOR SELECTIVELY DISPENSING ORDINARY AND CARBONATED WATER
Franz Kostka, Vienna, Austria
Application May 29, 1950, Serial No. 164,881
2 Claims. (Cl. 261—64)



1. A device for selectively dispensing ordinary and carbonated water, said device comprising a casing which has a chamber which has opposed end walls and a cylindrical side wall, a turbine wheel which has a hub, said hub being turnably mounted within said chamber in axial alignment therewith, said turbine wheel also having a plurality of blades mounted on said hub and extending radially outwardly therefrom, the ends of

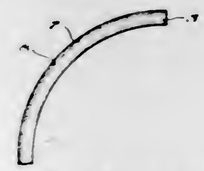
blades of said wheel being proximate to said side wall and the end faces of said wheel being respectively proximate to said end walls, a first inlet pipe which enters the side of said chamber and which is adapted to be connected to a water tap, the axis of said first inlet pipe extending substantially tangentially to the direction of rotation of said turbine wheel, and a second inlet pipe which enters the side of said chamber at a point substantially spaced from the point of entry of the first inlet pipe, as taken in the direction of rotation of said turbine wheel, the axis of said second inlet pipe also extending substantially tangentially to the direction of turning of said turbine wheel, said second inlet pipe being adapted to be connected to a source of carbon dioxide, manual means for closing off said second inlet pipe, and an outlet pipe which enters the side of said chamber at a point substantially spaced from said first and second inlet pipes as taken in the sense of rotation of said turbine wheel, whereby the streams of water and gas respectively entering said chamber through said respective first and second inlet pipes are directed in the same turning direction against the blades of said wheel whereby to produce a mixture which is ejected from said chamber through said outlet pipe.

2,663,557
WASHER FOR BLAST FURNACE GASES
Waring Lennox Dawbarn, Winchester, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts
Application June 23, 1950, Serial No. 169,835
4 Claims. (Cl. 261—117)



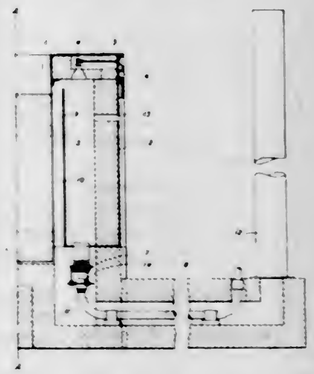
1. In a washer for blast furnace gases the combination with a vertically extending closed gas washer chamber adapted to maintain a superatmospheric pressure therein under normal conditions of operation, means for conducting compressed gases to be washed into said chamber, means for introducing a spray of water into the upper part of said chamber, a hopper at the bottom of said chamber for collecting the water of said spray, means for conducting washed compressed gases out of said chamber, of overflow means leading from the lower part of said hopper and being provided with valve means controlled by the liquid level in said hopper, reservoir means in thermal contact with the walls of said washer and extending upwardly above the plane of said normal liquid level and being adapted to contain a supply of water the level of which is normally maintained above said normal liquid level by said superatmospheric pressure, an opening at the bottom of said reservoir means providing unrestricted flow of water between said reservoir means and said hopper and opening into the hopper below the normal liquid level of the body of water therein, and unrestricted opening at the top of said reservoir means communicating with the atmosphere and positioned adjacent the upper end of said gas washer chamber, said reservoir means being of substantial capacity whereby, upon sudden surges of pressure within said washer tending to force the water out of said hopper through said overflow means before said valve means can be closed, the water content of said hopper is promptly replenished by discharge of water from said reservoir means into said hopper.

2,663,558
FURNACE CONVEYER ELEMENT
Martin N. Ornitz and Ray H. English, Pittsburgh, Pa., assignors, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware
Application January 21, 1949, Serial No. 71,886
5 Claims. (Cl. 263—6)



1. In combination, a furnace conveyor element having a work-supporting ferrous or alloy body, said body having a melting point above about 1400° F., an aluminum oxide surface covering the work-engaging portion of said body, said surface being in weld relation to the work-engaging exterior portion of said body.

2,663,559
COMBUSTION OF LIQUID FUEL
Frederick James Battershill, Woodlands, South Croydon, England; Vivien Louise Lilian Battershill, sole executrix of Frederick James Battershill, deceased
Application April 24, 1951, Serial No. 222,560
Claims priority, application Great Britain June 28, 1950
5 Claims. (Cl. 263—14)



4. In combination with a galvanising bath, a combustion chamber, means for introducing fuel in atomised form into a part of said chamber, a stack, a duct for the discharge of combustion

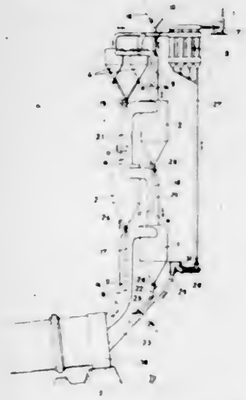
products to said stack, and an injector nozzle which is located in said duct but outside said chamber at a point removed from the part of the said chamber receiving atomised fuel, which communicates with a source of air and which is arranged to inject a mixture of air and entrained combustion products into the combustion chamber, the products of combustion being caused to flow over a wall of the galvanising bath before passing to the said duct.

2,663,560

HEAT PROCESSING OF FINE-GRAINED MATERIAL, PARTICULARLY CEMENT RAW MATERIAL

Franz Müller, Bensberg-Refrath, and Leonhard H. Winners, Koln-Kalk, Germany, assignors to Klöckner-Humboldt-Deutz A. G., Koln (Rhine), Germany, a German corporation

Application December 7, 1951, Serial No. 260,552
9 Claims. (Cl. 263—30)



1. The process of heating dust material such as cement raw material by hot gases in a vertically arranged series of centrifugal gas-from-dust separators, which comprises passing the hot gas serially and upwardly through the centrifugal separators; gravity feeding the material directly to a point within the gas flow entering the uppermost separator of the series so that the material is conveyed by the gas flow into said uppermost separator; gravity feeding the separated dust from each upper separator down to a point within the gas flow entering the next lower separator of the series to thereby cause the dust to be conveyed by the gas flow into the next lower separator; gravity discharging the heated dust from the lowermost separator; and retaining at each dust discharge point an amount of dust sufficient to prevent the gas from passing through the dust being fed into the gas flow.

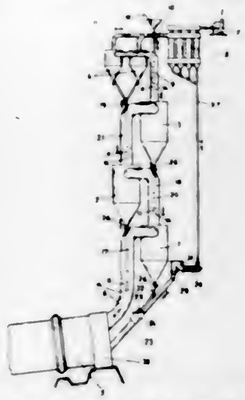
2,663,561

APPARATUS FOR HEATING FINE-GRAINED MATERIAL, PARTICULARLY CEMENT RAW MATERIAL

Franz Müller, Bensberg-Refrath, Germany, assignor to Klöckner-Humboldt-Deutz A. G., Koln (Rhine), Germany, a German corporation

Application December 7, 1951, Serial No. 260,553
Claims priority, application Germany December 13, 1950
4 Claims. (Cl. 263—30)

2. Apparatus for heating dust material such as cement raw material by hot gases, comprising at least two separators spaced vertically and horizontally from each other; each separator having a lateral gas inlet, a gas outlet on the top of the separator, and a dust discharge pipe extending downward from the bottom of the separators; an upper gas conduit and a lower gas conduit each having a substantially vertical portion and having a lateral portion extending laterally away from the top of said vertical portion to one of said respective inlets, said vertical portion of said upper conduit extending



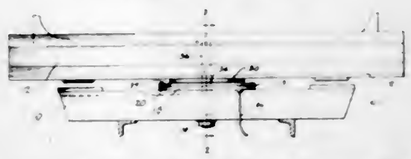
upward from said gas outlet of the lower separator for passing an upward flow of hot gas from said lower conduit sequentially through said separators; a dust supply pipe extending from above into said vertical portion of said upper conduit, said dust discharge pipe of said upper separator being aligned with said vertical portion of said lower conduit and extending from above into said latter vertical portion, whereby dust is gravity fed through each of said pipes and is gas-flow conveyed from said conduits to said respective inlets.

2,663,562

TRUCK SCALE

Hugo Hendrickson, Port Angeles, Wash.

Application November 28, 1951, Serial No. 258,567
1 Claim. (Cl. 265—40)



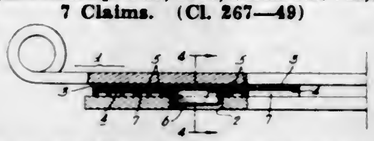
In a load hauling vehicle of the truck or trailer type; a wheel truck including a load carrying base member and a load supporting cross-bunk arranged for support on the base member, and a load weight indicator comprising a hydraulic wafer interposed between the said base member and cross-bunk, a pressure gauge and a pipe line connecting the pressure gauge and the chamber of the hydraulic wafer; said wafer comprising a flat, rigid, bottom plate, disposed flatly upon the base member, a top plate of flexible metal joined with the bottom plate about its outer periphery and spaced therefrom to provide an intermediate chamber containing a hydraulic pressure medium, a wear plate disposed on the top plate of the wafer and a capping plate disposed on the wear plate and supporting the cross-bunk thereon, said base member, cross-bunk, wafer, wear plate and capping plate having aligned openings therethrough and a pivot bolt extending through said openings and joining the base member and bunk.

2,663,563

LEAF SPRING END SPACER AND CUSHIONING DEVICE

John W. Watson, Wayne, Pa.

Application April 25, 1947, Serial No. 743,996
7 Claims. (Cl. 267—49)



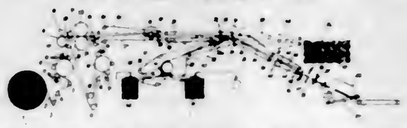
1. In combination, two adjacent leaves of a leaf spring, a leaf-end friction bearing structure between said leaves and presenting to one of them a surface of sufficient yieldability to conform to irregularities thereof, and anchoring means providing adequate factors of engagement with said bearing structure and with the other of said leaves adjacent an end thereof for maintaining said bearing structure in predetermined limited position with relation to said leaves while in service, said entire anchoring means being mechanical and extrinsic to said bearing structure and comprising an anchoring device in meshed engagement with said other of said leaves adjacent an end thereof and in acting meshed engagement with said bearing structure and the sole support of said anchoring device against the force of gravity being provided by said other of said leaves, the nature of the structural engagement between said anchoring means and said other of said leaves or said bearing structure making possible with reasonable facility, the initial anchoring of said bearing structure with relation to said other of said leaves and/or, for replacement purposes and without removing the spring from its position, the removal of said bearing structure from between said leaves and, where necessary, the removal of said anchoring means from between said leaves.

2,663,564

PAPER RULING, ASSEMBLING, AND STAPLING MACHINE

Emil Karl Ernst Meffert, Schmalenbek, near Hamburg, Germany, assignor to E. C. H. Will Liniermaschinenfabrik, Hamburg, Germany, a firm

Application December 6, 1950, Serial No. 199,382
5 Claims. (Cl. 270—59)



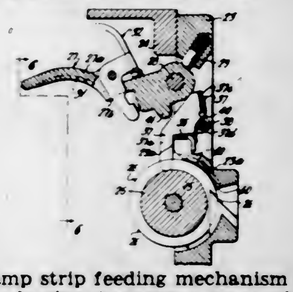
1. In a machine for assembling a plurality of cut sheets together with an insert, in combination, a first endless belt having a discharge end; a second endless belt having a carrying surface adapted to carry sheets, a receiving end and a discharge end, the receiving end of said second belt being disposed substantially in line with and adjacent the discharge end of said first belt; an elongated ratchet-like wheel interposed and having a sector of the circumference of the wheel projecting over said surface and having its axis disposed in a plane parallel to the carrying surface of the belt between said first and said second belt, whereby when cut sheets or paper are fed over the surface of said first belt and over said ratchet wheel, and when said second belt is travelling at a slower speed than said first belt, the teeth of the ratchet wheel will engage the trailing ends of cut sheets of paper passing thereover and depress said sheets permitting the leading edge of subsequent sheets to overlap the preceding sheet moving slower over said second belt; a third belt adapted to carry inserts, and having a discharge end disposed adjacent said discharge end of said second belt and in a different plane and substantially parallel thereto; stop means located in the path of the discharge end of said second belt; and blocking means blocking the discharge end of said third belt, said belts, said stop means, and said blocking means being operatively connected and cooperating to release a number of sheets simultaneously from said second belt and said third belt whereby a number of cut sheets and inserts from said third belt will be assembled together.

2,663,565

STAMP ROLL FEEDING MECHANISM

Christian M. Gottschau, Rochester, N. Y., assignor to Commercial Controls Corporation, Rochester, N. Y., a corporation of Delaware

Original application December 15, 1945, Serial No. 635,342. Divided and this application December 14, 1950, Serial No. 200,805
6 Claims. (Cl. 271—2.3)



1. In stamp strip feeding mechanism for feeding stamps having transverse rows of perforations therein, in combination, a framework, a feeding roller having a plurality of transverse rows of pins thereon for feeding a perforated stamp strip, means rotatably mounting said feeding roller on said framework, the portion of said framework adjacent said roller being shaped to fit said roller, said portion being grooved to accommodate said pins, and a movable cover pivotally mounted on said framework, said cover including a shoe portion having a surface conforming to the curved surface of said roller and having grooves therein to accommodate said pins, and said cover having pivotally mounted thereon a latch member for locking the cover in effective position provided with a finger piece adapted to be grasped for releasing the latch and swinging the cover to an open position, said grooved framework and shoe portions holding said stamp strip in engagement with at least two rows of pins at all times.

2,663,566

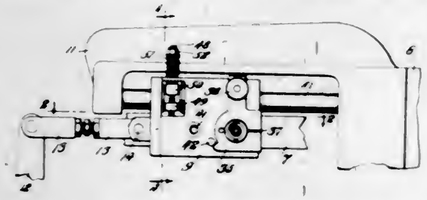
SLIDE FEED MECHANISM

Eric Grimm, East Orange, N. J., assignor to U. S. Tool Company, Inc., Ampere, N. J., a corporation of New Jersey

Application February 9, 1951, Serial No. 210,238
10 Claims. (Cl. 271—2.5)

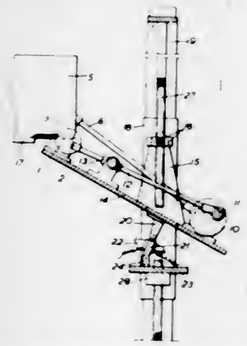
1. A slide feed of the character disclosed comprising in combination, parallel guide rods, a feed

block sliding on said rods and having a fixed stock gripping abutment wall, a toggle actuating and block sliding plunger having a limited reciprocating sliding movement in said block toward and away from said fixed abutment wall, parallel to said guide rods and in the direction of feed, toggle links disposed transversely of the line of feed and connected at their mid-point with the inner end of said toggle actuating and block sliding plunger, a reciprocating stock gripping plunger



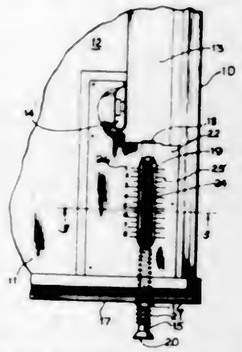
slidingly mounted in the block in line and connected with and actuated by one of said toggle links, an abutment for the other of said toggle links and means connected with the outer end of said toggle actuating and block sliding plunger for imparting both reciprocating stock feeding sliding movement to said block and stock gripping and releasing action to said toggle links and companion stops for limiting the sliding movement of said toggle actuating and block sliding plunger in said block.

2,663,567
DEVICE FOR COUNTING LEAVES OR SHEETS IN PILES OR PACKETS
Axel Edvin Rosswall, Lidingo, Sweden
Application August 25, 1951, Serial No. 243,680
3 Claims. (Cl. 271—18)



1. A device for counting leaves arranged in packet form, comprising an oscillatory pneumatic leaf detacher for successively engaging and detaching the leaves of a packet and a leaf shifter movable in a closed path about the leaf detacher whereby the leaves are successively shifted from one side to the other of said detacher, operating mechanism for the leaf shifter and leaf detacher, a support carrying the suction nozzle and the leaf shifter and their operating mechanism, a slide, a pivotal connection between the support and slide, which connection has a pivot axis parallel with the planes of the leaves, a slideway for the slide extending in a direction normal to the faces of the leaves, and means imparting intermittent movement to the slide along the slideway, said slideway being vertically disposed and the pivot axis of the connection between the support and the slide being horizontal whereby operation of the suction housing and the leaf shifter cause them to climb up the pile, thereby rotating the support about the horizontal axis, the lifting mechanism actuating the slide, a control therefor actuated by a predetermined rotation of the support in one direction so as to initiate the lifting movement and actuated by a predetermined rotation of the support in the opposite direction to stop the lifting mechanism.

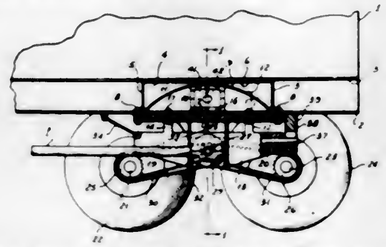
2,663,568
PROJECTING DEVICE FOR PIN BALL AMUSEMENT APPARATUS
Lyndon A. Durant, Chicago, Ill., assignor to General Patent Corporation, Chicago, Ill., a corporation of Illinois
Application July 16, 1951, Serial No. 236,955
1 Claim. (Cl. 273—129)



In combination a projecting device for a pin ball amusement apparatus including a slidable plunger, means slidably supporting said plunger, a compression spring acting on said plunger to manually position the plunger in a projected position with respect to its supporting means, a pair of superimposed plates between which said plunger is movable, the uppermost of these plates being of opaque material and having an elongated opening formed therein over said plunger with graduation lines extending from the long edges of said opening on said plate, the other of said plates being of translucent material, indicia on said other plate consisting of numerals and graduation lines, the latter being in registration with certain of said graduation lines on said upper plate, and means beneath said other plate for illuminating said indicia, certain of said graduation lines of said upper plate and said indicia of said other plate being correspondingly numbered, with said correspondingly numbered indicia of said other plate exposed through said elongated opening in said upper plate when said plunger is slidably moved from said projected position to a position adjacent a preselected numbered graduation line of said upper plate.

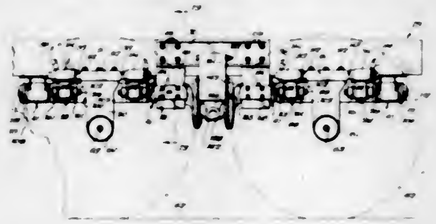
2,663,569
PNEUMATIC SUSPENSION FOR VEHICLES
Rene Gouirand, New York, N. Y.
Application May 19, 1948, Serial No. 27,966
6 Claims. (Cl. 280—104.5)

2. A vehicle comprising: a body, a pneumatic chamber carried by the body and the bottom of which chamber is closed by an elastic diaphragm peripherally secured to the walls of the chamber, a wheeled cradle positioned beneath said diaphragm, means for securing the diaphragm to the cradle in spaced relation to the periphery of the diaphragm and in spaced relation to the central portion of the diaphragm, the central portion of the cradle being vertically spaced from the central portion of the diaphragm and said central portion of the diaphragm being vertically



spaced from the top of the chamber and free from contact with rigid surfaces and exposed to the air pressure within the pneumatic chamber whereby it is free to be flexed in both directions perpendicular to its plane of normal loading.

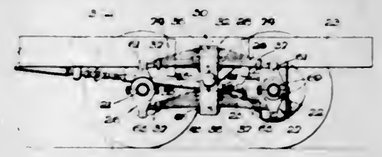
2,663,570
SPRING SUSPENSION FOR TANDEM AXLE TRUCKS
Albert F. Hickman, Eden, N. Y.
Application December 7, 1951, Serial No. 260,462
14 Claims. (Cl. 280—104.5)



1. In a tandem axle vehicle spring suspension adapted to be interposed between a vehicle frame and a pair of tandem axles each having wheels journalled on the ends thereof and said suspension having a load transfer mechanism at each side of said frame pivotally connecting the corresponding ends of said axles and arranged to equalize the loads on said ends, the combination therewith of a resilient support for said frame, comprising a pair of rubber blocks spaced lengthwise of said frame and arranged adjacent each of said load transfer mechanisms, means securing one face of each rubber block to said frame in position to permit flexure of said block and vertical movement of the opposite face thereof, a metal plate bonded to said opposite face of each rubber block, a horizontal bar connecting the plates of each pair of rubber blocks, and means operatively connecting each of said bars with the corresponding load transfer mechanism.

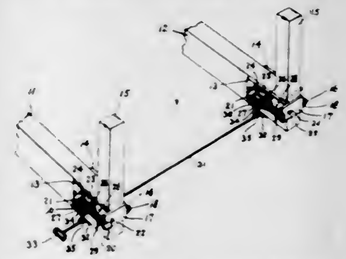
2,663,571
DUAL AXLE UNIT FOR MOTOR VEHICLES
William L. Romick, Ferndale, Mich., assignor to Detroit Automotive Products Corporation, Detroit, Mich., a corporation of Michigan
Application June 2, 1952, Serial No. 291,142
18 Claims. (Cl. 280—104.5)

1. In a dual axle unit for motor vehicles, the combination with the axles of a center member disposed therebetween and adapted for connection to a vehicle frame, a pair of trunnions projecting laterally from said center member, and a pair of spring assemblies pivotally mounted intermediate their ends on said trunnions, each of said spring assemblies including an upper and a lower leaf spring, a spring hanger having a central member into which the trunnion extends and a spring encircling strap fixed to said central member and forming therewith spring receiving openings above and below said central member, means for fixing said springs to said hanger with their central portions housed in said



openings, and shackles mounted on said axles interconnecting the ends of said upper and lower springs, the connection between each shackle and one of said springs restricting all relative movement therebetween to a pivotal movement about an axis parallel to the axis of the axle on which said shackle is mounted while the connection between said shackle and the other spring permits relative lateral movement parallel to, as well as pivotal movement about, another axis parallel to the axis of said axle.

2,663,572
TRIP LATCH STAKE POCKET
Beta Vinson, Emporia, Va.
Application May 20, 1952, Serial No. 288,811
1 Claim. (Cl. 280—145)



In a vehicle of the type having spaced parallel log supporting bolsters means for releasably supporting stakes on the bolsters in vertically extending position adjacent opposite ends of said bolsters and for simultaneously releasing the stakes adjacent one side of the vehicle and permitting them to fall away from the bolsters, said means comprising pairs of spaced parallel side plates carried by the bolsters and extending longitudinally therefrom to define with the adjacent ends of the bolsters stake receiving recesses, an end plate carried by one side plate of each pair of side plates to move in an arcuate path from an active position in which it extends across the adjacent ends of its respective pair of side plates and in closing relation to the end of the recess defined between the side plates and the bolster to an inactive position in which the end of the recess is wholly open, a lug carried by the opposite side plate and extending longitudinally therefrom adjacent the open end of the recess, the end plate having an opening extending therethrough for receiving the lug when the end plate is in active position, an elongated loop carried by the

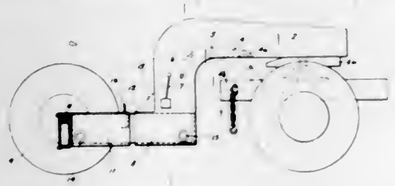
end plate in spaced relation to the recess, a hook carried by the plate carrying the lug for movement in an arcuate path adjacent the side of said plate remote from the bolster, said hook being adapted to extend through the loop to hold the end plate in active position, a yoke carried by the plate carrying the lug for movement in an arcuate path which intersects the path of movement of the adjacent hook for holding said hook in loop retaining position, a spring carried by the bolster and connected to the yoke for moving said yoke into hook retaining position, a lever carried by each yoke and projecting outwardly therefrom for moving its respective yoke in its arcuate path into hook releasing position, an operating rod mounted on the bolsters for shifting movement transversely thereof, and means carried by the rod and connected to the levers adjacent ends of the bolsters for moving the levers against the effort of the springs to release the hooks.

2,663,573
CONVERTIBLE TRAILER
Guy C. Shinn, Hamilton, Tex., assignor of one-half to C. T. Gautier, Hamilton County, Tex.
Application May 5, 1952, Serial No. 286,075
11 Claims. (Cl. 280—415)



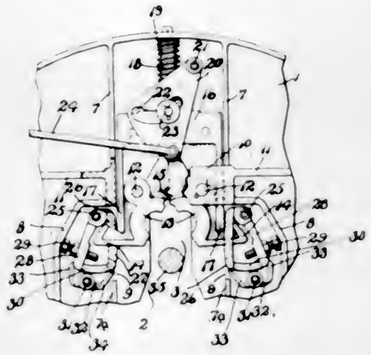
1. A convertible flat bed lowboy trailer comprising a pair of parallel longitudinally extending frame members, supporting wheels operatively mounted adjacent one end of said frame, a detachable gooseneck hitch engageable with the other end of said frame, each of said frame members being constituted of a structural shape including a central web and edge flanges transverse to said web, said gooseneck including a structural shape having a web, a hook secured on said web adjacent the front edge thereof, a transverse bearing block secured to said web in rearwardly spaced relation to said hook, a hook bar secured in the web of said frame member, said transverse flange having a slot admitting said hook, a bearing on said frame member adapted to engage said bearing block.

2,663,574
TRAILER WITH DETACHABLE GOOSENECK
William E. Martin, Kewanee, Ill.
Substituted for abandoned application February 13, 1945, Serial No. 577,676. Divided and this application October 9, 1946, Serial No. 702,249
3 Claims. (Cl. 280—415)



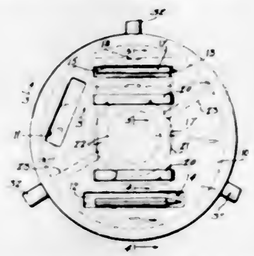
1. In a transporting mechanism, including an axle-supported truck platform carrying a part of a pivotal support for a trailer gooseneck; a gooseneck pivotally connected thereto, a wheel-supported trailer axle, said trailer axle having forwardly extending sockets, said gooseneck having rearwardly extending sockets, and connecting means to fixedly join said gooseneck and trailer axle comprising rigid members insertable into the respective sockets of said gooseneck and said trailer axle.

2,663,575
FIFTH WHEEL JAW WEAR COMPENSATING MEANS
Henry Ketel, Los Angeles, Calif., assignor to Holland Hitch Company, Holland, Mich., a corporation of Michigan
Application March 15, 1951, Serial No. 215,777
2 Claims. (Cl. 280—435)



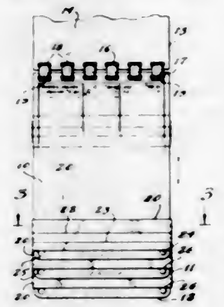
1. In a fifth wheel having a fifth wheel body, having an entrance for the passage therein of a cooperating connecting pin, said body having spaced apart ribs thereon parallel to each other and to said pin entrance, said fifth wheel having a pair of jaws pivotally mounted on said body between the guiding ribs, said jaws having recesses in adjacent sides adapted to receive a connecting pin, and each of said jaws outwardly of said recesses therein having a lateral extension, said extensions extending from the jaws opposite to each other, and each of said ribs having an opening for the lateral extensions of the jaws to pass therethrough when the jaws turn outwardly about their pivots, and said fifth wheel having a locking yoke with spaced parallel sides, parallel to and one located adjacent each of said ribs, and said fifth wheel having spring means operatively associated therewith for forcing the yoke in a direction to cause the sides thereof to engage the lateral extensions to said jaws and hold the jaws in closed position, the improvement comprising a member pivotally mounted adjacent the inner end of each thereof to the fifth wheel body, one at the outer side of each side of said yoke, each of said members having an inner side adapted to bear against the outer side of the adjacent side of said yoke, so that the sides of said yoke are between the outer ends of said lateral extensions and the inner sides of said movable members when the jaws are closed, said fifth wheel body having ribs extending therefrom one outwardly of each of said pivotally mounted members, and a screw threaded into the outer side of each of said members, the head of which is against the adjacent rib of said last mentioned ribs for maintaining the inner sides of said members in bearing engagement against the outer sides of the sides of said yoke, and for maintaining the inner sides of the sides of said yoke against said lateral extensions of the jaws when said jaws are closed.

2,663,576
UTILITY ATTACHMENT FOR AUTOMOBILE STEERING WHEELS
Frank Berman, Pewaukee, Wis.
Application August 19, 1950, Serial No. 180,497
3 Claims. (Cl. 281—12)



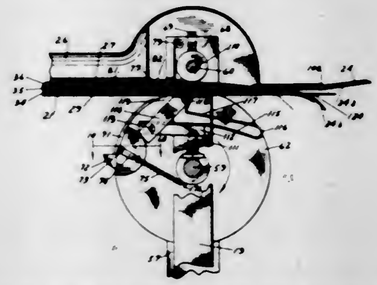
1. A unit, mountable upon an automobile steering wheel having a horn button at its center and the automobile including a dash board forwardly of the steering wheel, comprising a large disc, a plurality of flanges depending from the periphery of the disc, each including slotted terminals adapted for snapping engagement with the spokes of the steering wheel, the disc including a central portion adapted for engagement with the horn button and provided with a plurality of pockets permitting ready access thereto by the driver, and the disc being formed of transparent plastic material whereby the dash board of the automobile is visible through the disc to the driver, wherein one of the pockets is characterized by an elongated cylinder integral with and depending laterally from the disc, the pocket having an elongated mouth extending through the surface of the disc, the mouth being substantially narrower than the diameter of the pocket, an elongated spindle of a diameter narrower than the mouth of the pocket and loosely contained in the pocket, the spindle being adapted while in the pocket to have a paper tape received through the mouth of the pocket and wound thereon, and the pocket being provided in its underside with an open slot adapted to receive the fingers for winding the paper tape.

2,663,577
LOOSE-LEAF BOOK CONSTRUCTION
George T. Fielding, Stamford, Conn.
Application January 2, 1951, Serial No. 203,960
1 Claim. (Cl. 281—15)



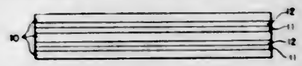
In a device of the character described, a binder, a plurality of relatively stiff leaves hingedly connected with said binder along their upper edges, each of said leaves below the top leaf being longer than the adjacent overlying leaf, a transparent slide consisting of a band extending about each leaf and slidably fitting the same for disposing the slide in various positions thereon in spaced relation from the hinged edge thereof, said slides each having a guide line extending transversely thereacross on opposite sides thereof for facilitating reading of the matter on opposite sides of the leaf, said leaves having parallel opposite side edges throughout their length about which the said slides engage, and said leaves each having a lug struck from the body adjacent the free end thereof and within the confines of the adjacent overlying leaf constituting a stop for limiting the movement of the slide and for retaining the slide on the leaf and for spacing each leaf from the adjacent leaf for facilitating grasping of the leaf and movement of the slide.

2,663,578
DUPLICATING MACHINE
Edgar M. McNabb, Indianapolis, Ind.
Application August 5, 1952, Serial No. 302,747
9 Claims. (Cl. 282—15)



1. In a duplicating machine employing multiple strips of forms and carbon paper strips entered between the strips with widths less than the widths of the form strips; the structure for advancing the carbon strips from rolls to have free ends of the carbon strips between the strips presented in the direction of travel of form strip advancement which comprises means for gripping the marginal side edges of said form strips only beyond the side edges of the carbon paper strips and pulling the form strips for a predetermined distance to allow the form strips to slide over said carbon paper strips remaining stationary; and means squeezing together said form and carbon paper strips for an interval of time during said pulling to cause said carbon paper strips to drag along with the form strips during that interval only.

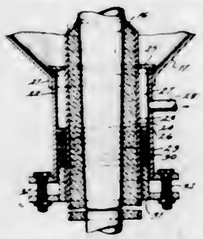
2,663,579
MANIFOLDING TRANSFER AND METHOD OF MAKING
Jerome G. Zimmerman, West Milton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio
Application March 17, 1948, Serial No. 15,502
11 Claims. (Cl. 282—28)



10. In manifolding, superimposed contacting sized sheets, the contacting surfaces being provided with a substantially firm, non-sticky, non-tacky, light colored coating, which coating is characterized by the presence of a higher fatty acid radical in the form of a water-insoluble salt,

and lead as an element in a salt, and further characterized in that when said lead is combined as a salt which is water-soluble, the said fatty acid radical is combined as a salt of a polyvalent metal the sulfide of whose metal is colorless, and a substantially firm, non-sticky, non-tacky light colored coating including a water-soluble metallic sulfide and a polyvalent metal salt of a higher fatty acid, the sulfide of the metal of which is colorless, and a very small amount of water being present in each of the respective coatings.

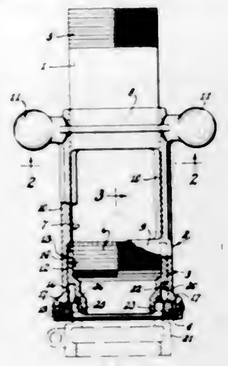
2,663,580
INSULATED SLIP-JOINT DEVICE
Robert M. Shirk, Wilmington, Del., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application November 30, 1949, Serial No. 130,129
9 Claims. (Cl. 285—22)



1. A slip-joint between a vessel wall and a tapered portion adjacent to the free end of an elongated conduit extending through an opening in said wall, and adapted to maintain a sealed connection therebetween while permitting substantial relative displacement longitudinally of the axis of said conduit as a result of extreme changes in temperature, comprising a spaced sleeve member concentrically encircling said tapered portion and extending therewith through said opening, said sleeve member having a cylindrical outer surface, heat-resistant means between said sleeve member and said conduit, a housing member secured at one end along the edge of said opening and extending outwardly from said wall, said housing member being radially spaced from and encircling an intermediate portion of said sleeve member, a packing between said housing member and said sleeve member adapted to provide a fluid-tight slip-joint therebetween, means for retaining said packing inwardly from the supported end of said housing member, and means for introducing a fluid medium into the annular space formed between the inner portion of said housing member and said sleeve member for passage into said vessel through said opening.

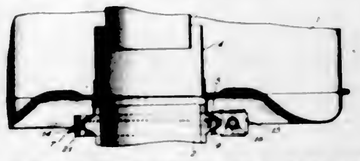
2,663,581
SWIVEL PIPE COUPLING
Alfred L. Grisé, Springfield, and Frederick E. Neef, Jr., Longmeadow, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application June 3, 1950, Serial No. 165,942
2 Claims. (Cl. 285—122)

1. A swivel pipe coupling, comprising, a fluid-conducting tube having its inlet end adapted for connection to a fluid-supply conduit and its outlet end exteriorly screw threaded, a swivel body having a main bore in which a portion of the exterior of said tube is rotatably engaged, said body having a first counterbore and a first shoulder at the intersection of the latter with the main bore; an inner tubular fluid-conducting member communicating at its inner end with the outlet end of said tube and having an external cylindrical portion rotatably and slidably engaged in the first counterbore, a first annular face at its inner end adapted to engage said shoulder, a second annular face axially spaced from the first annular face by a distance less than the length of the first counterbore, and an internally screw threaded portion at said end threaded on the externally screw threaded outlet end of said tube; said body having a second counterbore and a second shoulder at the intersection of the first and second counterbores, an outer tubular fluid-conducting member communicating at its inner



end with the outer end of the inner member and having an external cylindrical portion engaged in the second counterbore and an inner annular end face abutting the second shoulder and projecting into the first counterbore in position to engage the second annular face of the inner member and limit the relative sliding movement between said inner member and swivel body, interengaging means on said swivel body and outer member to hold the same against relative rotation and axial movement, the outer member having a screw threaded portion adapted for connection with the screw threaded portion of a fill pipe to be serviced when the swivel body is rotated, and a packing ring on one of said members adapted for sealing engagement with the end face of the fill pipe.

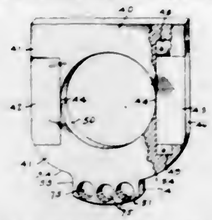
2,663,582
CLAMP ARRANGEMENT FOR CONNECTING TUBULAR MEMBERS
Frank Sebok, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application March 31, 1949, Serial No. 84,537
3 Claims. (Cl. 285—129)



1. In a clamp arrangement, a tubular member, a downwardly and outwardly inclined flange on the end of said member, spaced tongues on said flange extending therebeyond, an open-ended clamp ring of channel shape and of the expansible

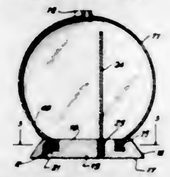
and contractible type, said clamp ring having slots in the base of the channel through which said tongues project to retain the clamp ring on the tubular member even when the ring is loose and expanded and to prevent rotation of the ring relatively to the flange, adjustable means connected to the ends of the ring to selectively expand or contract the ring, and said tongues holding the ring outwardly to insure engagement of the ring with a flange of another member.

2,663,583
AXLE STOP FOR JOURNAL BOXES
William T. Bissell and Thomas W. Potter, Indianapolis, Ind., assignors to Journal Box Servicing Corporation, Indianapolis, Ind., a corporation of Indiana
Application November 17, 1950, Serial No. 196,208
3 Claims. (Cl. 286—6)



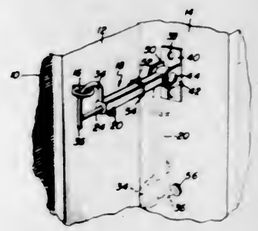
3. A device for controlling fore and aft travel of an axle in relation to a railway car journal box, comprising a pair of metallic axle impact heads; an elastic rubber-like body to which said heads are bonded permanently thereto in horizontally spaced apart relation to have the spacing therebetween slightly greater than the diameter of said axle; said body having an opening therethrough between said heads to accommodate said axle; and a body supporting tongue extending integrally downwardly from said body for a distance to provide a rest on a bottom portion of said box; said tongue being perforated between its lower end and said body to provide vertical compression of the tongue to a length less than its normal length under lifting of said box relative to said axle; the material of both said body and said tongue having a durometer hardness within the range of 45 to 85.

2,663,584
JOINT
Ralph V. Moran, Bradford, Pa.
Application February 11, 1949, Serial No. 75,910
4 Claims. (Cl. 287—1)



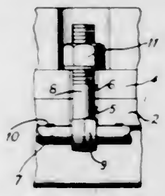
1. A joint between two elements, one of the elements having an annular groove therein with a plurality of spaced openings communicating with the groove, elastic resilient members in the spaced openings and extending into the groove, the other element having a flange thereon with the flange disposed in the groove, the resilient members being compressed and distorted between and frictionally engaging the flange and a wall portion of the groove to effect the joint therebetween.

2,663,585
SCREEN DOOR SAFETY LATCH
Opal Lee Tye, Pineville, Ky.
Application April 3, 1950, Serial No. 153,642
1 Claim. (Cl. 292—106)



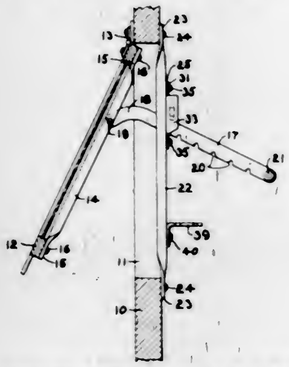
For use with a screen door and a door jamb operatively associated with said screen door, said screen door having an eye screw secured thereto; a safety latch comprising an elongated shank having a bore therein, a hook on one end of said shank, a spring-projected sliding bolt in said bore and normally engaging said hook, a bracket having a mounting plate adapted to be secured to said door jamb, said plate having a pair of spaced parallel laterally extending ears, a pivot pin connected to said ears the other end of said shank being rigidly and pivotally mounted on said pivot pin, a coil spring mounted on said pivot pin, one end portion of said spring being disposed between said ears and abutting said mounting plate, the opposite end portion of said spring extending alongside said shank to a position substantially midway of the ends of the shank where it engages the shank by being bent around the shank, said spring urging said shank downwardly toward said door jamb.

2,663,586
FLANGE CONNECTING MEANS
Alfred W. Gardes, Detroit, Mich., assignor to Honan-Crane Corporation, Lebanon, Ind., a corporation of Indiana
Application August 24, 1950, Serial No. 181,299
2 Claims. (Cl. 292—256.75)



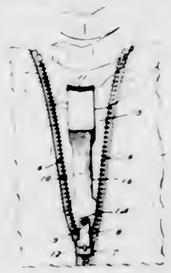
1. In a container assembly, a container, an outstanding flange around the mouth of said container, a cover, an outstanding flange on said cover for confronting relationship with the container flange, said flanges having aligned notches in their outer edges to receive bolt shanks, an open-ended ring welded to the outer face of one of said flanges at points between notches, and an eye-bolt for each set of notches strung on said ring for pivotal movement into and out of the respective set of notches, nuts for said bolts to clamp said flanges together when the bolt shanks are in the respective notches, the part forming the eye of each said bolt projecting into the adjacent notch at all times to prevent lateral displacement of the bolt.

2,663,587
LATCHING ASSEMBLY FOR WINDOWS AND THE LIKE
Walter J. Woodhams, Marshall, Mich., assignor to Woodlin Metal Products Company, Marshall, Mich.
Application October 30, 1950, Serial No. 192,910
6 Claims. (Cl. 292—266)



1. In a window assembly of the class wherein there is a window opening and a window sash having one edge portion hinged to the wall at one edge of said opening, a cross bar connecting the hinged edge portion of said sash with the opposite edge portion of said sash, a second cross bar connecting wall portions at like portions of said window opening, and an operating arm having one end pivoted to said first bar and having spaced notches along one edge, the combination with such window and its operating arm of a housing mounted on said second cross bar and having an opening therein through which said arm passes, said housing being engageable by the notches of said operating arm selectively at one end of said opening for positive anchoring of said arm, and a keeper in said housing, said keeper urging said arm into notch engaging position.

2,663,588
OPERATING DEVICE FOR HOOKLESS OR SLIDE FASTENERS
Lillian I. Scheidorfer, Fort Lauderdale, Fla.
Application July 19, 1951, Serial No. 237,563
2 Claims. (Cl. 294—26)



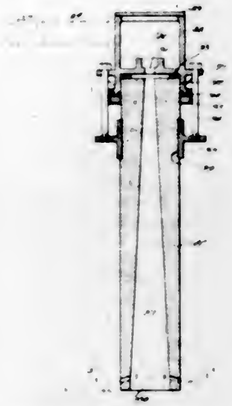
1. A device for manipulating slide fasteners comprising an elongated shank one end of which is reversely turned to provide a finger engaging hook, the other end of the shank being curved in the opposite direction to provide a body engaging shield, and an upwardly extending hook on the shank, near the shield end of the latter, projecting in the direction opposite to the shield and engageable with the pull tab of the slide fastener.

2,663,589
ADJUSTABLE FOOT WELL FOR STROLLERS
Matilda D. Welsh, Ladue, Mo.
Application August 4, 1950, Serial No. 177,598
3 Claims. (Cl. 296—75)



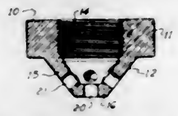
1. In a stroller of the character described having a body frame, and a foot well having a rigid top rim, mechanism for mounting said well for adjustment to extended and depressed positions comprising a link pivoted at one end to said body frame and at its other end to the forward part of said well adjacent said rim, a pivot on the rear part of said well rim slidable in a horizontal track in said body frame, and a support below said body frame adapted to support the rear part of said well when in depressed position.

2,663,590
PHOSPHORIZING NOZZLE
James R. Wyatt, Havertown, Pa., assignor to The Ajax Metal Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application May 16, 1947, Serial No. 748,637. Divided and this application March 7, 1949, Serial No. 80,083
1 Claim. (Cl. 299—141)



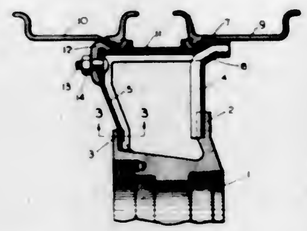
In a phosphorizing apparatus, a metering device dispensing molten phosphorus at a controlled rate, a nozzle head connected with the metering device and having a socket provided with an opening, a carbon refractory nozzle element having a longitudinal bore tapering from a smaller cross section near an inlet end to a larger cross section near an opposite outlet end, and having a ring of radial holes outwardly directed from the bore to the outside near the outlet end, the nozzle element fitting into the socket at the inlet end of the nozzle, a collar surrounding and engaged with the refractory of the nozzle element located at a position intermediate between the inlet and outlet ends and screws extending longitudinally at spaced points around the circumference and interconnecting the collar with the nozzle head.

2,663,591
FILTER SURFACE WASH NOZZLE
Preston F. Pew, Tucson, Ariz., assignor to Inflico Incorporated, Tucson, Ariz., a corporation of Delaware
Application April 7, 1951, Serial No. 219,876
3 Claims. (Cl. 299—141)



1. A precision spray nozzle for a filter surface wash system comprising a molded body having a shank portion with a cylindrical bore and a hollow spray head integral with said shank portion and free of internal structure, said spray head having an inverted frusto-conical side wall and an end wall, and five orifices extending through said walls, the slope of said side wall to its base being about 52°, one of said orifices extending through said end wall aligned with the center line of said cylindrical bore, and four equally spaced orifices extending through the lower portion of said side wall and at right angles to said side wall, the angles between the center line of said first orifice and the center line of each of said four orifices being equal, each being about 52°, each of said orifices having rounded edges at its inlet end.

2,663,592
WHEEL STRUCTURE
Joseph G. Swain, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application August 4, 1948, Serial No. 42,443
8 Claims. (Cl. 301—6)



2. A wheel comprising a hub, a plurality of similarly constructed generally radially extending elements formed of sheet metal stampings arranged in series peripherally of and secured to said hub, each having, at its outer end, an axially extending portion terminating in an outwardly flared demountable rim seat, said portion being transversely curved substantially concentric with the axis of said hub to increase its resistance to bending, and a generally radially extending supporting means spaced axially of the hub a substantial distance from said elements and secured on the hub and extending generally radially into engagement with the axially extending portions of said elements adjacent the rim seats thereon to resist inward movement thereof, and means for joining the supporting means to the hub and to the ends of the axially extending portions adjacent said rim seats thereon.

2,663,593
APPARATUS FOR HANDLING GRANULAR MATERIAL
Reuben T. Savage, Ridley Park, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application December 15, 1951, Serial No. 261,840
6 Claims. (Cl. 302—17)

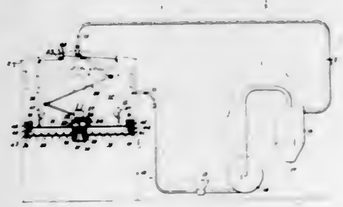


1. Apparatus for pneumatically conveying solid granular material from a supply point to a laterally and vertically remote receiving point comprising: a loading vessel at said supply point adapted to contain a mass of said granular material, a substantially horizontal tubular conveyor extending from a point adjacent to said loading vessel to a point substantially vertically below said receiving point, means for introducing gas into the inlet end of said horizontal conveyor, means for withdrawing said granular material from said loading vessel and for introducing the same into said horizontal conveyor beyond the point of gas introduction, a lift engager vessel in open communication with the outlet end of said horizontal conveyor, a lift pipe extending from a level within said lift engager substantially below said outlet end of the horizontal conveyor upwardly to said receiving point, a spaced sleeve surrounding the lower end portion of said lift pipe, said sleeve having its lower end adjacent to the lower end of said lift pipe and its upper end in open communication with the region of said lift engager above said outlet end of said horizontal conveyor, a lift disengager vessel at the upper end of said lift pipe, and means for conveying said granular material by gravity flow from said lift disengager to said receiving point.

2,663,594
STORAGE BIN UNLOADING APPARATUS
Kenneth R. Dennick, New York, N. Y.
Application August 26, 1952, Serial No. 306,474
4 Claims. (Cl. 302—50)

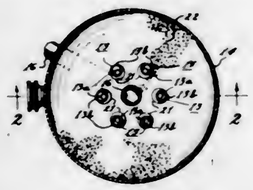
1. In apparatus for the unloading of a sealed cylindrical storage bin for a pneumatically loaded mass of comminuted material, said bin being associated with means to charge the same with the material and having a circular platform verti-

cally movable and floating therein to top and to follow the level of the bin contents, together with cables suspending said platform, and means for releasing and winding the cables to lower and to elevate said platform; material discharge means associated with said platform including an articulated-elbow suction tube having its ends within the bin flexibly connected respectively to the top of the cylindrical bin and substantially centrally with respect to the platform, which latter is provided in its vertical axis with an opening into the bin communicating with the platform end of said suction tube; motor means supported by the platform coaxially with respect to the opening therein and having a drive shaft extending through the opening; a gear housing



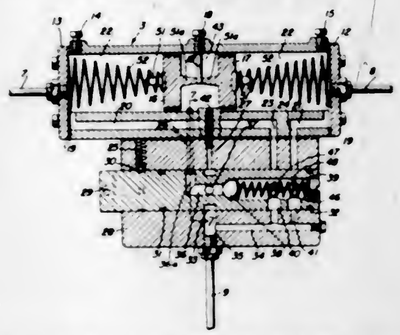
supported below said platform by the drive shaft for rotation thereby relatively to said platform and about said vertical axis; and screw conveyor means for the comminuted material, rotatably mounted by the housing and extending radially therethrough at the underside of the platform, gearing within the housing and driven by said motor shaft to rotate in opposite directions the conveyor means, said housing adapted for rotation with the conveyor means about said longitudinal axis under the reactive thrust developed by the latter, and said conveyor means in action being adapted to direct the comminuted material radially to the platform opening to concentrate the same in proximity to the platform end of the elbow suction tube for discharge through the latter.

2,663,595
TRANSPORTATION OF GRANULAR SOLIDS
David B. Ardern, Moylan, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application September 13, 1950, Serial No. 184,547
9 Claims. (Cl. 302—59)



1. Apparatus for elevating granular material by fluid lifting medium comprising a plurality of vertically elongated conduits grouped about a common vertical axis and terminating in a common horizontal plane, said conduits defining passageways for streams of granular material and fluid lifting medium; and a disengaging chamber surrounding the tops of said conduits and providing a confined space for disengaging said granular material and said lifting medium; the upper portion of each of said conduits tapering eccentrically outward from said common axis.

2,663,596
SAFETY BRAKE MECHANISM
William E. Brady, Baldwin, Iowa
Application April 4, 1951, Serial No. 219,250
4 Claims. (Cl. 303—84)

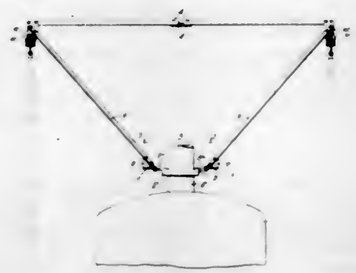


1. A safety brake mechanism which comprises a master cylinder and a pair of brake lines, a distributing cylinder adapted to communicate at its ends with said brake lines, a pair of pistons movable toward and away from each other in said distributing cylinder, means maintaining said pistons in spaced-apart relation, stop means limiting movement of said pistons, a conduit leading from said master cylinder, a valve cylinder between said conduit and said distributing cylinder, a first pair of ports leading from the end portions of said distributing cylinder to said valve cylinder, a first port leading from said valve cylinder to the approximately central portion of said distributing cylinder, between said pistons therein, a second port leading from the central portion of said distributing cylinder to said valve cylinder, a first check valve normally closing said second port to the flow of fluid toward said distributing cylinder, springs acting between the end portions of said distributing cylinder and said pistons, and a rotary valve positioned in said valve cylinder and movable between a first and a second position, said valve cylinder including a third port communicating with the first port in the first position of said rotary valve, whereby fluid from said master cylinder may flow to the central portion of said distributing cylinder, thereby forcing said pistons outwardly and forcing fluid into said brake lines, said rotary valve having, also, a second pair of ports communicating in the second position of said rotary valve with said first pair of ports, a second check valve controlling said second pair of ports, and a third port communicating between said master cylinder and said first check valve controlling said second port, whereby fluid may be directed to the outer ends of said distributing cylinder and force one of said pistons toward the other, fluid between said pistons flowing through said first check valve by virtue of the superior pressure in the space between said pistons, created by the action of the associated springs and the pressure in the brake lines.

2,663,597
SCAFFOLDING DEVICE
Lemaster C. McGill, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 2, 1948, Serial No. 11
1 Claim. (Cl. 304—13)

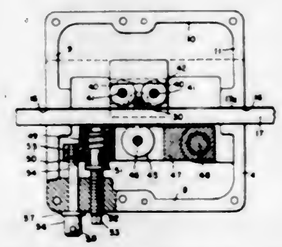
A scaffold formed to be mounted on a vessel having a top central outlet, the scaffold comprising a central planar base flange, said base

flange being formed for erection on said central outlet, supports extending upwardly and outwardly therefrom, a circular frame carried on the outer ends of said supports and forming the



uppermost level of said scaffold, the said top outlet leading from said vessel being below the said uppermost level of said scaffold, a circular track carried by said frame and means for suspending a platform from said circular track.

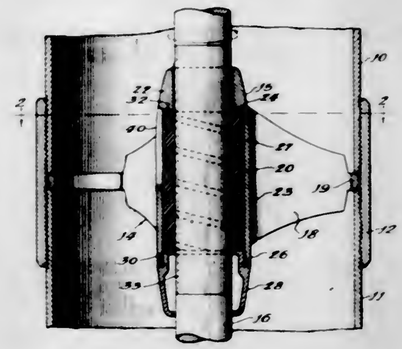
2,663,598
PRECISION MEASURING DEVICE
Joseph Verderber, Cleveland, Ohio
Original application January 13, 1945, Serial No. 572,601. Divided and this application August 10, 1951, Serial No. 241,300
6 Claims. (Cl. 308—6)



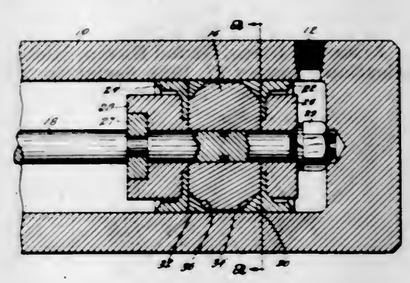
1. In a device of the character described, a housing, a bar movable through said housing, a roller in engagement with one side of said bar, means resiliently urging said roller into engagement with said bar, and manually-controlled means independent of said first-named means for retracting said roller from said bar, whereby to relieve the pressure of said roller against said bar, and permit free relative movement between the bar and housing.

2,663,599
LINE SHAFT GUIDE BEARING
Thomas R. Mackay, Pomona, and Perry L. Angel, La Verne, Calif., assignors to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application May 18, 1950, Serial No. 162,722
9 Claims. (Cl. 308—134.1)

1. In a pumping installation wherein liquid is forced through a pump column pipe in which a rotatable pump shaft is disposed, a guide bearing for the pump shaft comprising an elongated support member having a central, generally axially extending chamber through which the shaft extends, and a cylindrical bearing in said chamber disposed around said shaft for frictional drive thereby, the wall of said support member having openings therethrough spaced axially along the entire length of said chamber permitting the liquid being pumped to impinge on the entire outer surface of said bearing as said bearing is rotated, whereby dirt or the like may be flushed off the bearing.

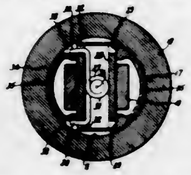


2,663,600
PACKED PISTON FOR HIGH-PRESSURE CYLINDERS
Donald Harwood Newhall, Walpole, Mass.
Application December 29, 1950, Serial No. 203,299
3 Claims. (Cl. 309—4)



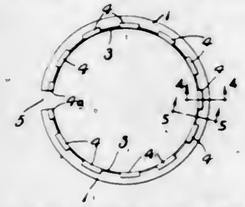
1. A packed piston for a high pressure cylinder having an internal cylindrical piston bearing surface which comprises a piston head of cylindrical shape of a diameter to provide a substantial clearance between the piston head and cylinder and having a transverse end face providing a packing thrust support and with the edge of said face cut away to provide a frusto-conical cam surface, a lip-type packing of resilient material, means rigidly securing the packing against the end face of the piston, and an unbroken backing-up ring element fitted to said frusto-conical cam surface having a triangular cross-section substantially filling in the cut-away portion of the piston, said ring element being chosen of a material, and so proportioned to have a higher degree of elasticity than the cylinder and a low component of friction with relation to the contacting cylinder and piston surfaces, whereby variations in the hydrostatic pressure exerted against the packing causes the ring element to expand and contract with the cylinder wall in response to said pressure variations to provide a packing extrusion tight fit between the cylinder wall and the piston for any applied pressure.

2,663,601
PISTON ASSEMBLY FOR RECIPROCATING COMPRESSORS
Charles A. Dubberley, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application November 28, 1950, Serial No. 197,988
4 Claims. (Cl. 309—19)



1. A piston assembly for reciprocating compressors and the like comprising a piston having transverse wrist pin openings and open slots extending laterally from its outer wall into respective ones of said openings, a hollow wrist pin mounted in said openings and having open radial slots at its ends registering with said slots in said piston, and a resilient locking element held under stress in the hollow of said pin and having its ends positioned adjacent opposite ends of said pin and extending through corresponding ones of the slots in said pin and said piston and resiliently gripping said piston between said locking element ends whereby said pin is held securely in position in said piston against both rotation and longitudinal movement and said element may be readily released and removed from either end of said pin.

2,663,602
PISTON RING
Ernest R. Olsen, Grand Haven, Mich.
Application January 17, 1951, Serial No. 206,408
4 Claims. (Cl. 309—29)



1. A piston ring comprising, a flat, thin, parted steel rail ring member having a thickness of approximately 20 to 25 thousandths of an inch, said rail being adapted to be located substantially parallel to a side of a piston ring groove in use of the ring, and a second parted, ring member of thin steel having a lower side underneath the inner portion of said rail, a short leg against the inner curved edge of the rail, and spaced lips extending from the free edge of said short leg over the upper side of the rail, said second member having permanent connection to said rail and said rail extending at its outer edges beyond said second ring member.

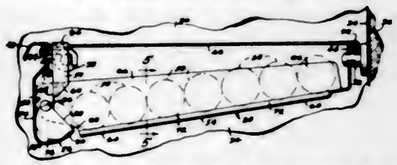
2,663,603
LAP TRAY WITH LEG ENGAGING MEANS
Irving Newman, Brooklyn, N. Y.
Application June 16, 1950, Serial No. 168,609
1 Claim. (Cl. 311—23)

A lap tray comprising a sheet defining an upper and a lower surface, a plurality of clamping devices mounted on the lower surface thereof, said devices comprising L-shaped members mounted in guide tubes and having outwardly extending portions thereof in an arcuate form, each guide tube also enclosing a spring, one end of which is attached to a clamping device, the other end being attached to a fixed point on the enclosing



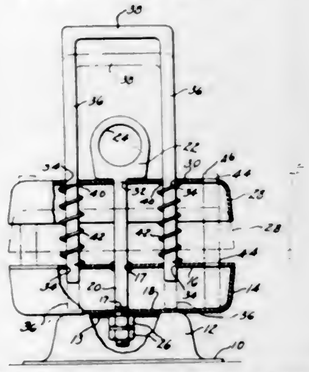
tube to render the device retractable said lower surface also carrying at each tube a lever resiliently mounted to contact the clamping device and retain it in a given extended position.

2,663,604
REFRIGERATING APPARATUS
Herbert L. Davies, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application June 1, 1950, Serial No. 165,538
2 Claims. (Cl. 312—49)



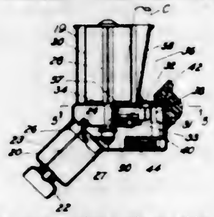
1. An egg dispenser for use in storing and dispensing eggs within a refrigerator comprising, an inclined runway receiving and feeding eggs downwardly by gravity, said runway having a discharge end, upstanding oppositely disposed sides extending along said runway and extending beyond the discharge end thereof to form a pair of ears, a cup member between and pivoted to said ears to swing about a horizontal axis, said cup member being arranged at said discharge end of said runway to receive the lowermost of the eggs, said cup member being moveable about its axis to face outwardly for access to the egg therein, and hangers on said ears for supporting said runway and also limiting swinging movement of said cup member in opposite directions.

2,663,605
CIGARETTE DISPENSER
Russell L. Oliver, Philadelphia, Pa.
Application April 18, 1952, Serial No. 283,077
1 Claim. (Cl. 312—73)



A cigarette dispenser comprising a lower member including a bottom wall and a top wall spaced from said bottom wall, said top wall having a first set of apertures therein through which cigarettes may pass to rest on said bottom wall, an upper member having a second set of apertures therein which register with said first set of apertures and through which cigarettes may pass, a spring biasing said upper member away from said lower member, a rod carried by said lower member and slidably engaging said upper member, means at the upper end of said rod to limit the upward movement of said upper member relative to said lower member to a distance such that the upper ends of cigarettes resting on said bottom wall will project slightly through said second set of openings, and a handle fixedly carried by said upper member and movable relative to said lower member, for moving said upper member downwardly to increase the extent to which the cigarettes project through said second set of openings.

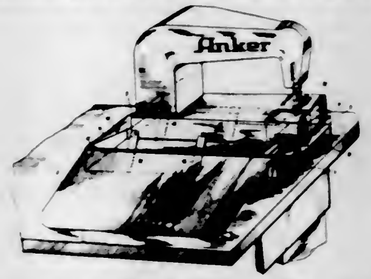
2,663,606
MAGAZINE CIGARETTE LIGHTER FOR AUTOMOBILES
Clifford B. Cronan, West Newton, Mass.
Application June 6, 1950, Serial No. 166,453
6 Claims. (Cl. 312—86)



1. A lighting magazine cigarette dispenser for automobiles, comprising a box-like body, a substantially vertically disposed cup thereon open at the top, a rotary cigarette holding turret disposed axially in the cup and adapted to hold a plurality of cigarettes disposed substantially vertically about the turret axis, a cylindrical adapter carried by and in electro-conductive contact with and extending laterally from the body and adapted to plug into the cylindrical cigarette lighter socket of an automobile, an electro-conductive contact carried by and insulated from the adapter for engaging a cooperating contact in the socket when the adapter is plugged thereinto, a cigarette lighting coil in the body beneath the cup, means including a thermostatic element and a switch contact associated therewith providing an electric circuit through the coil and to said contact insulated from the adapter, and manually operated means for simultaneously closing said switch contact and rotating the turret to a position dispensing a cigarette therefrom vertically and axially into end contact with the coil, passage of electric current through the circuit being adapted to heat and cause expansion of the thermostatic element to a position opening said switch contact in the circuit.

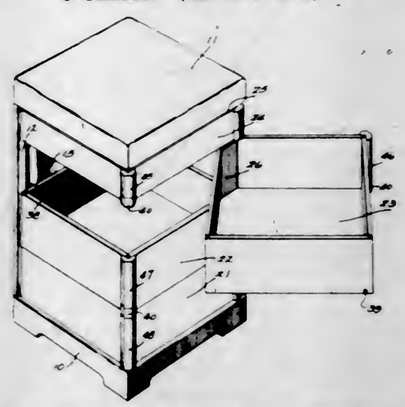
2,663,607
DUAL PURPOSE SEWING MACHINE
Hans Schaper, Bielefeld, Germany, assignor to Anker-Werke, A. G., Bielefeld, Germany, a corporation of Germany
Application August 18, 1949, Serial No. 111,061
Claims priority, application Germany October 1, 1948
6 Claims. (Cl. 312—208)

1. A portable sewing machine, comprising a carrying case having an elongated hollow bottom member and two side panels hinged to the long upper edges respectively of said member, a machine unit having a base portion normally disposed in the hollow of said member and shorter than said member, said base portion having a working surface normally substantially flush with said upper edges and spaced from one of the short edges of said member, link means interconnecting said member and said base portion to permit moving said base portion into a raised position out of said member and over said one short edge, and two



plates hinged to said bottom member at its two respective narrow edges, one of said plates normally covering the space between said base portion and said one short edge, and said other plate being movable to cover the space between the other short edge and said base portion when said unit is in said raised position so as to secure said unit in said position.

2,663,608
SWINGING DRAWER CABINET
Wilbert E. Schauer, Milwaukee, Wis.
Application May 19, 1949, Serial No. 94,230
6 Claims. (Cl. 312—270)

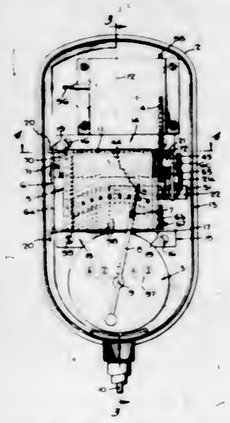


2. In a device of the character described, the combination with a cabinet provided with a corner post, of a drawer unitarily comprising a sleeve journaled and reciprocable upon said post, a member above said drawer in substantial marginal contact with said drawer in the closed position thereof, said member comprising a sleeve reciprocable upon said post, the respective sleeves having coacting cam surfaces positioned for coacting engagement in the initial swinging of the drawer from closed position in a direction to displace said member upwardly free of said drawer.

2,663,609
SPEED RECORDER
Edwin P. Jones, Merced, Calif.
Application July 9, 1948, Serial No. 37,751
13 Claims. (Cl. 346—24)

1. In a speed recorder, the combination of a recorder frame, a tracker-board mounted on said

frame, means for defining a supply roll pocket back of said tracker-board to receive a supply of recording web, means for drawing off the web from said roll at a substantially uniform speed, and for guiding the same across said tracker-board, said tracker-board including a panel pivotally supported on said recorder frame to swing on an axis extending transversely to the direction of advance of the web, and located at an elevated point with respect to said pocket, to facilitate placing a supply roll in said pocket; and severing means including a tearing edge extending longitudinally with the axis of said pocket and disposed adjacent to the path of the web in passing from said roll, to enable a portion of the web to be detached from the roll after a record has been taken upon the same.



10. In a vehicle speedometer for recording on a web, the combination of a casing having means for carrying a supply of web, a tracker board, a traction roller for drawing the web across the trackerboard, means for recording the speed of the vehicle on the web at the trackerboard, a take-up roller beyond the traction roller for normally collecting a continuous speed recording web when the vehicle is on a relatively long run, an auxiliary guide roller mounted in the casing adjacent the path of the web in passing from the tracker-board to the traction-roller, and over which the web may be passed when it is desired to make a recording of a relatively short run, and means beyond the auxiliary guide roller for collecting the record web of said short run.

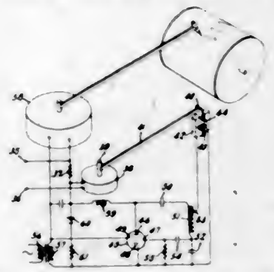
2,663,610

ELECTRICAL RECORDER

Theodore A. Rich, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application May 9, 1951, Serial No. 225,431
7 Claims. (Cl. 346—31)

1. Apparatus for recording a variable quantity, comprising a control vane, a magnetic core and a winding thereon, said core having an air gap and said vane being movable selectively into or out of said gap to vary the reluctance of said core, means for varying the relative position of said vane and said core responsive to variations in the quantity to be recorded, thereby varying the inductance of said winding, an electron discharge device having a control electrode, a current-responsive electrical recording device and means including a rectifier and a current limiting resistor connected in parallel circuit relationship with said discharge device for supplying electric current to said recording device, whereby the electric potential of said control electrode controls the amount of current supplied to said recording device, a regenerative feedback circuit connected to provide electric oscillations across said discharge device, a degenerative feedback circuit connected to reduce the amplitude of such oscillations, and a grid-leak bias resistor connected to said control electrode to apply thereto a negative bias potential substantially proportional to the amplitude of said oscillations, said winding being connected in said degenerative feedback circuit so that its inductance value controls the amount of degenerative feedback provided, whereby the relative positions of said vane and said core control the amount of current supplied to said recording device.

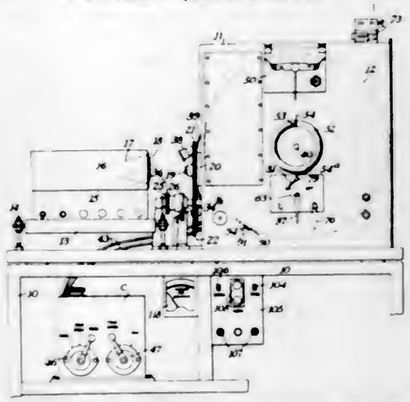


2,663,611

MECHANISM FOR PRODUCING SPEED INDICATING MARKINGS ON THE EDGES OF RAPIDLY MOVING FILM

Clifton M. Tuttle and Edgar O'Neil, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Original application March 1, 1946, Serial No. 651,232, now Patent No. 2,604,376, dated July 22, 1952. Divided and this application January 3, 1952, Serial No. 265,781
5 Claims. (Cl. 346—107)



1. A high-speed camera comprising, in combination, a camera casing, a drum revolvably mounted in the casing, means for stretching a length of film about the drum, a power drive therefor, an objective, a movable carrier for the objective, means for moving the objective across the film carried by the drum whereby a spiral trace may be made thereon of a length greater than the length of the film stretched about the drum, a speed-film marking mechanism and means for operating the film marking mechanism through only a portion of the drum's movement.

CHEMICAL

2,663,612

PROCESS FOR COLORING HYDROPHOBIC FIBER

Joseph Whitton Gibson, Jr., Penns Grove, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 10, 1950, Serial No. 161,265
8 Claims. (Cl. 8—34)

1. A process for continuously coloring polyethylene terephthalate fiber, which comprises impregnating the same continuously with an organic coloring material from an aqueous medium, drying continuously the impregnated fiber and then exposing the same continuously to dry heat at a temperature between 180° and 230° C. for a period of 5 to 60 seconds, whereby to effect fixation of said coloring materials on the fiber and uniform distribution thereof within the fiber.

2,663,613

PROCESS FOR COLORING NYLON FIBER

Joseph Whitton Gibson, Jr., Penns Grove, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 10, 1950, Serial No. 161,267
8 Claims. (Cl. 8—37)

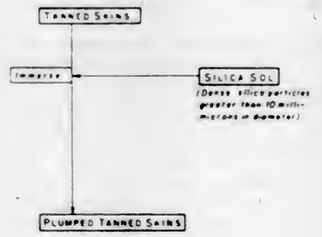
1. A process for continuously coloring nylon fiber, which comprises impregnating the same continuously with an organic coloring matter from an aqueous medium, drying continuously the impregnated fiber, and then continuously subjecting the same to a heat treatment in the absence of moisture at a temperature not less than 190° C. and not greater than 230° C., for a period of time of from 20 to 60 seconds, whereby to effect fixation of the color within the fiber.

2,663,614

PLUMPING LEATHER WITH A SOL OF LARGE SILICA PARTICLES

Ivan L. Haag, Wilmington, Del., assignor to E. I. du Pont de Nemour & Company, Wilmington, Del., a corporation of Delaware

Application October 18, 1950, Serial No. 190,874
12 Claims. (Cl. 8—94.20)



1. In a process of treating tanned skins the step comprising immersing a skin in a sol of dense, colloidal silica particles greater than 10 millimicrons in diameter.

2,663,615

SPINNABLE CARBOXYMETHYLATED COTTON FIBERS AND THEIR PRODUCTION

George C. Daul, John D. Reid, and Robert M. Reinhardt, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 10, 1951, Serial No. 236,051
2 Claims. (Cl. 8—120)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a process for the production of fibers containing one carboxymethyl group per each 5 to 40 glucose units by reacting a cellulosic material with aqueous monochloroacetic acid and an aqueous alkali metal hydroxide, the improvement which comprises: impregnating a cellulosic material composed of spinnable cellulosic fibers with aqueous monochloroacetic acid; further impregnating the so treated cellulosic material with an aqueous alkali metal hydroxide containing from 20 to 50% alkali metal hydroxide; allowing the reaction to proceed until one carboxymethyl group per 5 to 40 glucose units has been introduced; mechanically removing the aqueous reactants; washing the treated cellulosic material with a water-miscible organic liquid selected from the group consisting of alkanols and alkanones of not more than four carbon atoms, said organic liquid containing from 1 to 30% water; recovering a spinnable, strong, pliable, flexible carboxymethylated fiber; and spinning said carboxymethylated fiber.

2,663,616

METHOD FOR TREATING WOOL

Georg Sulzer, Basel, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application July 9, 1951, Serial No. 235,907
Claims priority, application Switzerland April 27, 1949
10 Claims. (Cl. 8—127.6)

1. A method of treating wool with an acidic aqueous solution containing active chlorine which process comprises conducting the treatment in the presence of a water-soluble methylol compound selected from the group consisting of methylol compounds of an aminotriazine containing at least two amino groups and being free from other reactive substituents, alkyl ethers of such methylol compounds and alkyl ethers of dimethylol urea, and thereafter removing the said methylol compound by rinsing, and dechlorinating the wool.

2,663,617

WATER RESISTANT PROTEIN MATERIALS

Hugh J. Hagemeyer, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 24, 1950, Serial No. 181,320
5 Claims. (Cl. 18—54)

1. A process for the preparation of attenuated protein material which comprises forming a solution of a protein, aceto acetylating the protein while in solution, with diketene whereby —CO—CH_2—CO— groupings are obtained there-

in, imparting an attenuated form to the aceto acetylated protein and treating the so formed protein derivative with an aqueous solution of formaldehyde of 3–100% concentration and a mildly alkaline catalyst which solution has a temperature of 40–80° C., whereby cross linking is induced in the attenuated product as evidenced by no appreciable shrinkage thereof upon treatment of the same with hot water.

2,663,618

LEACHING MANGANESE ORE

Bernard R. Babbitt and Charles B. Kunz, Minneapolis, Minn., assignors to Manganese Chemicals Corporation, Minneapolis, Minn., a corporation of Minnesota

No Drawing. Application August 23, 1951, Serial No. 243,350
7 Claims. (Cl. 23—61)

1. In the process of leaching manganese from water-wet particulate ore material containing manganous oxide using as leaching solution an ammoniacal solution of an ammonium salt, the step of conditioning the water-wet ore particles for subsequent leaching which consists in treating at least a substantial part of the water-wet ore particles with a gas rich in ammonia prior to initiating the leaching operation.

2,663,619

METHOD OF PREPARING FINELY DIVIDED CALCIUM SILICATE

William Platt, Reading, Mass., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa., a corporation of Delaware

Application January 21, 1947, Serial No. 723,219
8 Claims. (Cl. 23—110)



1. A method of preparing a finely divided calcium silicate which comprises introducing a substantially parallel, concurrent stream of an alkali metal silicate solution centrally of a flowing body of an aqueous solution of a calcium salt proportioning the calcium salt to the alkali metal silicate so that the calcium salt is in stoichiometric excess at all times, agitating the coaxial streams to effect a commingling of the solutions and separating calcium silicate from the reaction mixture.

2,663,620

PREPARATION OF ALUMINA FROM ALUMINUM CHLORIDE HEXAHYDRATE

Vladimir Haensel, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 29, 1949, Serial No. 124,509
3 Claims. (Cl. 23—142)

1. A process for preparing alumina which comprises heating aluminum chloride hexahydrate at a temperature of from about 225° to 600° F. for a period of time such as to liberate only a portion of its chlorine content, commingling a basic reagent with the resultant chlorine-containing residue to form aluminum hydroxide, washing and filtering the latter and then calcining to produce the oxide.

2,663,621

STABILIZATION OF PERACIDS

Frank P. Greenspan, Buffalo, and Donald G. MacKellar, Kenmore, N. Y., assignors to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y.

No Drawing. Application February 7, 1952, Serial No. 270,516
4 Claims. (Cl. 23—166)

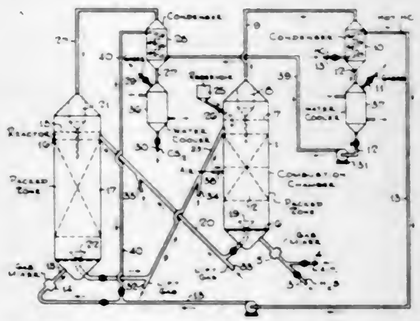
4. A stabilized peroxymonosulfuric acid aqueous solution containing from 10% to 43% peroxymonosulfuric acid and at least 5 parts per million of dipicolinic acid.

2,663,622

PREPARATION OF CARBON DISULFIDE

William W. Odell, New York, and Charles E. Morrell, Westfield, N. Y., and Harold W. Scheeline, East Orange, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application December 14, 1948, Serial No. 65,264
11 Claims. (Cl. 23—206)



1. In the preparation of carbon disulfide by the vapor phase reaction of sulfur with a hydrocarbon in a reaction zone in the presence of a solid catalyst at a temperature of 425° C. to 1000° C., the improvement which comprises supplying the necessary heat for the reaction by burning a combustible sulfur-containing material in an oxygen-containing gas in a combustion zone in the presence of the catalyst whereby sulfur is produced and whereby the heat of the exothermic combustion reaction is imparted to the catalyst, and passing the sulfur and heated catalyst from the combustion zone to the reaction zone in the absence of any non-catalytic heat carrying solid.

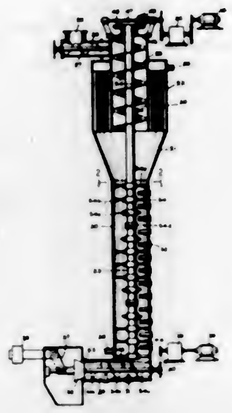
2,663,623

COUNTER-CURRENT EXTRACTION APPARATUS

Raymond T. Anderson, Lakewood, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a corporation of Ohio

Application October 4, 1950, Serial No. 188,472
10 Claims. (Cl. 23—270)

1. Apparatus for solvent extraction of the oil content of oil bearing material comprising an upright chamber, means for introducing solvent liquid near one end of said chamber, and for discharging it near the other end of said chamber, means for introducing said material to said chamber, said material being of specific gravity such that it moves through said solvent liquid in a direction counter to the direction flow of said solvent liquid, a rotatable shaft disposed substantially vertically in said chamber and blade means having a planar portion, said blade means being carried by and extending radially from said shaft, and below the surface of said solvent liquid, the planar portion of said blade means being so inclined to the horizontal as to oppose and retard downward material movement when said shaft is rotated in one direction, whereby to maintain the particles in suspension during an adequately long leaching period.

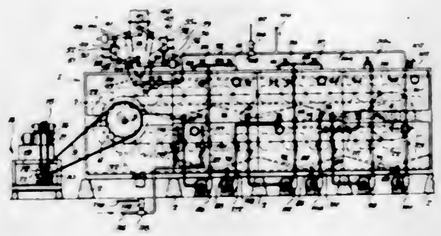


2,663,624

SOLVENT EXTRACTION APPARATUS AND METHOD

Ralph P. Hutchins and Forrest C. Simon, Piqua, Ohio, assignors to The French Oil Mill Machinery Company, Piqua, Ohio

Application March 21, 1950, Serial No. 151,012
14 Claims. (Cl. 23—310)



2. In a solvent extraction method of the type in which the solids to be treated for extraction are conducted between loading and unloading positions in baskets with open tops and drainage bottoms, that move in an endless loop path and that pass the solvent-contaning extraction liquid through said filled baskets, that improvement which comprises directing into each of said baskets in succession while they are in loading position, a substantial quantity of said solvent-containing extraction liquid, and before such liquid drains off, depositing a charge of the solids to be extracted into the baskets containing such liquid to prevent packing of the solids in the baskets, and during the major part of the travel of the baskets from loading position towards unloading position directing more of such extraction liquid into said baskets at a rate sufficiently faster than it can drain off through the bottoms of the baskets to keep the solids from packing by settling in the baskets.

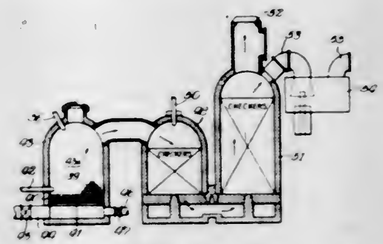
677 O. G.—69

2,663,625

OIL GAS PROCESS AND APPARATUS

Paul L. Born, Wilmette, Ill., assignor to The Gas Machinery Company, Cleveland, Ohio, a corporation of Ohio

Application November 22, 1948, Serial No. 61,472
9 Claims. (Cl. 48—75)



1. In a standard three-chamber carburetted water gas set which has a generator with a combustion chamber and a carburetor, and a superheater, with the outlet of the combustion chamber connecting with the inlet of the carburetor chamber and the outlet of the carburetor chamber connecting with the inlet of the superheater chamber and with said last two chambers each having an operative portion filled with checkers, and a grate in the lower portion of said generator beneath said combustion chamber and air and steam inlets in the base of the generator beneath the grate, the improvement which comprises a cover of checkers on the grate at the bottom portion of the combustion chamber to protect the grate, a fuel oil spray adjacent the inner vertical wall in the lower portion of the combustion chamber above the protective checkers adapted to discharge a horizontal spray across the lower portion of the combustion chamber in place of using solid fuel and thereby to permit an open combustion chamber, and refractory ignition means located in said combustion chamber inwardly from the wall and above said protective checkers in line with the fuel oil spray, whereby the set may produce gas having a calorific value and specific gravity making it interchangeable with natural gas of approximately 1000 B. t. u. per cubic foot.

2,663,626

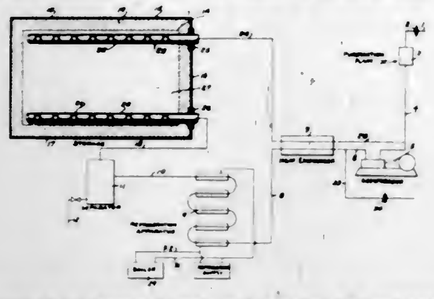
METHOD OF STORING GASES

Carl V. Spangler, Pittsburgh, Pa., assignor to J. F. Pritchard & Co., Kansas City, Mo., a corporation of Missouri

Application May 14, 1949, Serial No. 93,384
6 Claims. (Cl. 48—190)

1. The method of storing a high pressure natural gas on a solid adsorbent material and releasing the gas from storage when needed including cooling the gas to a temperature above the liquefaction temperature of the gas, bringing the cooled gas into contact with a solid adsorbent material to effect adsorption of the gas on said material, maintaining the adsorbent material at a temperature for holding the adsorbed gas as an adsorbate in said material, heating the natural

gas when storage gas is needed, passing the heated natural gas to the place of adsorption to



release the adsorbed gas, and mixing the released gas with the heated natural gas.

2,663,627

PRIMING COMPOSITION

Joseph F. Kenney, Bridgeport, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware

No Drawing. Application August 24, 1950, Serial No. 181,325
3 Claims. (Cl. 52—4)

1. The composition of matter Potassium Cupric Styphnate-Cupric Hypophosphite.

2. An ammunition priming composition consisting essentially of Potassium Copper Styphnate-Copper Hypophosphite 35% to 40%, tetrazene 2% to 5%, barium nitrate 20% to 40%, and glass 20% to 40%.

2,663,628

METHOD OF MAKING A LIGNIN FERTILIZER BASE

Alfred M. Thomsen, San Francisco, Calif.

No Drawing. Application June 29, 1950, Serial No. 171,225
1 Claim. (Cl. 71—25)

The method of forming a liquid ammonia fertilizer from a spent sulphite cooking liquor containing lime which comprises; adding an ammonia compound capable of precipitating the lime and substituting ammonia in the cooking liquor, adding additional nitrogen in the form of carbonated ammonia; commingling the resultant solution with potassium hypophosphite to supply added potassium and phosphorus, to form an ultimate composite suitable for use as a fertilizer.

2,663,629

LEAF OR VEGETATIVE FERTILIZER

Waldo L. Semon, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application July 27, 1950, Serial No. 176,245
6 Claims. (Cl. 71—30)

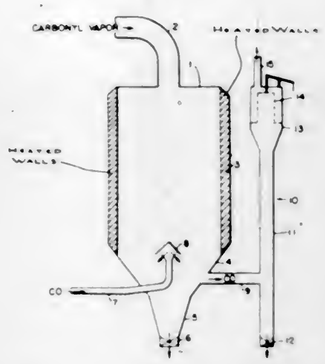
4. A non-phytotoxic composition for application to the vegetative growth of plant life to provide nitrogenous plant nutrient at a controlled rate, said composition comprising a diamide of an aliphatic organic dicarboxylic acid having 2 to 7 carbon atoms, as essential nitrogen-supplying agent, together with a sticking agent consisting of natural semi-drying oils and water-insoluble, synthetic polymeric materials to promote effective contact of said nitrogen-supplying agent with said vegetative growth and retard removal of said nitrogen-supplying agent by dew and rainfall.

2,663,630

PRODUCTION OF METAL POWDERS

Leo Schlecht and Ernst Oestreicher, Ludwigshafen (Rhine), Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Rheinland - Pfalz, Bundesrepublik, Germany

Application October 21, 1950, Serial No. 191,500
Claims priority, application Germany November 4, 1949
4 Claims. (Cl. 75—0.5)



1. In the process of producing metal powders by thermal decomposition of metal carbonyls in the hot free space of an elongated vertical cylindrical container the step which comprises separating a fraction of powder characterized by low carbon content by leading a current of gas through the said container while introducing the gas axially at the bottom and imparting to the gas current an obliquely downward direction, so as to entrain a portion of the metal powder formed in said free space, leading said current of gas out of said container to a solids separator, and separating from the gas the metal powder entrained by the current.

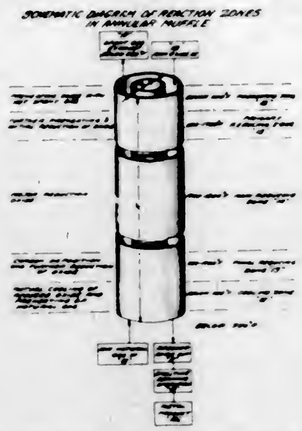
2,663,631

REDUCTION OF OXIDES

Harry E. Tschop, Joseph Edwin Carter, and Charles Bruce Goodrich, Huntington, W. Va., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

Application August 27, 1949, Serial No. 112,774
12 Claims. (Cl. 75—1)

5. A process for controlled reduction of oxides of metal having atomic numbers from 27 to 29 to obtain partially-reduced oxide of consistently-uniform, high, total metal content and containing controlled amounts of uniformly-dispersed, finely-divided, highly-active carbon and capable of being directly converted into high-quality metal without substantial additions of supplementary reducing agents which comprises establishing a substantially vertical annular column of at least one of said oxides having a particle size between about 0.04 inch and about 0.75 inch, said column having an effective width between about 1 inch and about 5 inches and having a ratio of surface area to volume of at least about 0.4; heating said oxide in a single operation to a temperature between about 1500° F. and about 2000° F. out of contact with combustion gases and in contact with flowing hydrocarbon gas to obtain controlled partial reduction of said oxide to a uniform total metal content of at least about 88% and to obtain controlled uniform dispersion of about 0.05% to about 4.0% finely-divided, highly-active carbon within the particles of the partially-reduced oxide; and cooling said oxide in a non-oxidizing atmosphere to a temperature below at least about 550° F.



8. As a new article of manufacture, a partially-reduced particle of oxide of metal having atomic numbers from 27 to 29, said particle having a size of about 0.04 inch to about 0.75 inch and containing a total metal content of at least about 88% together with about 0.05% to about 4.0% highly-active, finely-divided carbon uniformly dispersed within said partially-reduced particle.

2,663,632

REDUCTION OF IRON ORES

Assur Gjessing Oppegaard, Fredrikstad, Norway, assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 6, 1951, Serial No. 245,435
Claims priority, application Norway March 6, 1951
5 Claims. (Cl. 75—33)

1. A process for reduction of iron ores which comprises admixing comminuted iron ore with a solid reducing agent and heating said mixture to a temperature of between 900° C. to 1100° C. until from 50% to 80% of the iron content of said ore is reduced to metallic iron and subsequently treating said ore while still hot with a reducing gas in a separate furnace without addition of external heat to further reduce the iron content thereof and also to cool the reduced material.

2,663,633

PROCESS OF REDUCING FERROUS CHLORIDE IN THE GASEOUS PHASE WITH HYDROGEN TO PRODUCE METALLIC IRON

Henry L. Crowley, South Orange, N. J., Marion Ernest Graham, Parma, and Edward A. Beidler, Columbus, Ohio, assignors, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

No Drawing. Application March 8, 1951, Serial No. 214,632
5 Claims. (Cl. 75—34)

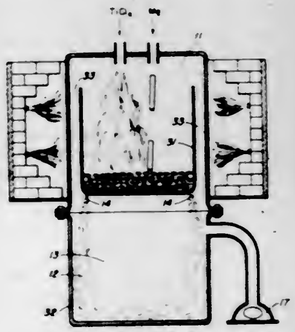
1. The process of reducing ferrous chloride to produce metallic iron solely in powder form, comprising the steps of introducing ferrous chloride solely as a stream of vapor and in a predetermined direction into a reaction zone, separately introducing into said reaction zone a stream of a gas, the essential active reducing ingredient of which is hydrogen, predetermining the direction of introduction of said stream of said gas so that it will impinge against said stream of ferrous chloride vapor at a point spaced from any walls defining any boundaries of said reaction zone, and maintaining the temperature in said reaction zone at least about 1250° F., so as to provide a solely gaseous phase reaction in said zone between ferrous chloride vapor and hydrogen to produce metallic iron solely in powder form.

2,663,634

PRODUCTION OF TITANIUM METAL

Carl K. Stoddard, Westfield, and James L. Wyatt, New Brunswick, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey

Application May 27, 1950, Serial No. 164,644
2 Claims. (Cl. 75—84)



1. Method for producting titanium metal which comprises forming in a reaction zone a pool of magnesium metal and reacting vaporous titanium tetrachloride with said pool in said reaction zone at elevated temperatures to produce titanium metal and molten magnesium chloride and having present throughout the reaction an excess of magnesium metal over the theoretical amount to react with the titanium tetrachloride added thereby maintaining said pool of magnesium metal in said reaction zone, and during said reaction simultaneously, continuously removing magnesium chloride from the titanium metal and the pool of molten magnesium metal in said zone to form easily removable dense titanium metal product.

2,663,635

ADDITION AGENT AND METHOD FOR INTRODUCING MAGNESIUM INTO CAST IRON

Arthur Donald Busby, Harrow, England, assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 21, 1951, Serial No. 257,665
Claims priority, application Great Britain November 27, 1950
9 Claims. (Cl. 75—130)

5. An improved process for producing magnesium-containing cast iron containing compacted graphite which comprises establishing a bath of molten cast iron of such a composition that if cast at least after inoculation it would be a gray cast iron; incorporating at least a small

but effective amount of magnesium in said bath by treating said molten bath with about 1% to 8% of an addition agent comprised of calcium cyanamide and such a proportion of a reactive ingredient containing at least 10% magnesium and up to a total of 90% of metal from the group consisting of nickel, copper and silicon that the weight ratio of calcium cyanamide to said reactive ingredient in said addition agent is between about 0.5 to 1 and about 6 to 1; and casting a magnesium-containing casting from metal of said bath in an inoculated condition to obtain therein uncombined carbon as compacted graphite.

2,663,636

ELECTROPHOTOGRAPHIC PLATE AND METHOD OF PRODUCING SAME

Arthur E. Middleton, Columbus, Ohio, assignor, by mesne assignments, to The Haloid Company, Rochester, N. Y., a corporation of New York

No Drawing. Application May 25, 1949, Serial No. 95,374
13 Claims. (Cl. 95—1.9)

1. An electrophotographic plate in which the photoconducting insulating coating includes at least one material of the group consisting of amorphous selenium and alpha monoclinic selenium in a binder comprising a continuous film of uniform thickness of thermoplastic synthetic resin which affords an effective medium which uniformly disperses said selenium and obtains good adherence of the coating to the plate, said binder having an electrical resistance higher than that of the plate and photoconducting insulating material.

2,663,637

PROCESS OF PRODUCING INTEGRAL COLOR CORRECTION MASKS

Karl Otto Ganguin and Norman Hulton Haddock, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application August 1, 1949, Serial No. 108,045
Claims priority, application Great Britain August 20, 1948
6 Claims. (Cl. 95—2)

1. A process for the production of subtractively colored photographic transparencies with color correction masks from multi-layer film having differently sensitized silver halide emulsion layers containing color formers adapted to form yellow, magenta, and cyan images in separate layers by coupling with the development product of a primary aromatic amino developing agent and being capable of producing azo dyes by coupling with a diazonium compound, wherein the color former which is adapted to form a yellow image contains in its molecular structure the group —CO—CH_2CO— as part of an open chain of atoms, which comprises exposing the film to light, color developing to said color images by treating said layers with said primary aromatic amino developing agent, treating the film with a gelatin hardening agent selected from the group consisting of chromium and aluminum gelatin hardening compounds to render the residual color former in the yellow image layer incapable of coupling with a diazonium compound, subsequently treating the film with a solution of a diazonium compound to convert residual color former in the magenta and cyan colored layers into masking images and retaining the color images and masking images in said layers.

2,663,638

COLOR CORRECTION OF MULTICOLOR FILM BY INTEGRAL STYRYL DYE MASKING IMAGES

Karl Otto Ganguin, Norman Hulton Haddock, and Eric Macdonald, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application August 22, 1949, Serial No. 111,765
Claims priority, application Great Britain September 15, 1948
8 Claims. (Cl. 95—2)

1. A process for the production of a color-corrected photographic transparency from multilayer film having differently sensitized silver halide emulsion layers containing color formers adapted to yield yellow, magenta, and cyan-colored images in separate layers by coupling with the development product of a primary amino developing agent and wherein the color former which is adapted to form a magenta image contains in its molecular structure a reactive methylene group, which comprises the steps of exposing the film to light, color developing to said colored images by treating said layers with said primary amino developing agent, and subsequently treating the film with an aromatic aldehyde containing an auxochromic group whereupon a yellow styryl dyestuff masking image is obtained in the magenta colored layer and retaining the colored images and masking image in said layers.

8. A colored multilayer photographic element which comprises a base having superimposed thereon three layers, one of said layers containing a cyan azomethine dyestuff image, the second of said layers containing a magenta azomethine dyestuff image and the other of said layers containing a yellow azomethine dyestuff image, said element being characterized in that the layer which contains the magenta image also contains a yellow styryl dyestuff masking image said masking image possessing the property of being dischargeable without appreciably affecting the other color images in said element.

2,663,639

PRINTING PLATE PREPARATION

William H. Wood, Mantua, and Dolor N. Adams, Lakewood, Ohio, assignors to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application January 28, 1950, Serial No. 141,154
3 Claims. (Cl. 95—7)

1. A new composition of matter for light sensitive coating of lithographic printing plates, said composition comprising a 6 to 18% water solution of albumen, a dichromate light sensitizing agent, ethanedial in the proportion of about 2.5 to 5.1% ethanedial to the albumen based on the dry weight of the albumen, and sufficient alkali to adjust the pH to about 9.0.

2,663,640

PHOTOGRAPHICALLY LIGHT-SENSITIVE SILVER HALIDE - DIAZIDE COLLOID LAYERS

Maximilian Karl Reichel and Wilhelm Neugebauer, Wiesbaden-Biebrich, Germany, assignors to Keuffel & Esser Comp., Hoboken, N. J.

No Drawing. Application October 13, 1950, Serial No. 190,042
Claims priority, application Germany October 24, 1949
8 Claims. (Cl. 95—7)

1. As a new article of manufacture light-sensitive material comprising a suitable base material and a light-sensitive colloid layer substantially free of alkali metal halides on said base material said light-sensitive colloid layer comprising a light hardenable solloid, silver halide and a water-soluble salt of a diazido compound selected from the group consisting of diazido-stilbene-sulfonic acids and diazido-stilbene carboxylic acids with symmetrically arranged azido groups, the ratio of the weight of said salt of said diazido compound to the dry weight of said light hardenable colloid being not less than 1:4.

2,663,641

PRODUCTION OF REVERSAL IMAGES

André Rott, Wilrijk-Antwerp, Belgium, assignor to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium

No Drawing. Application September 30, 1947, Serial No. 777,105
Claims priority, application Netherlands October 7, 1946
5 Claims. (Cl. 95—88)

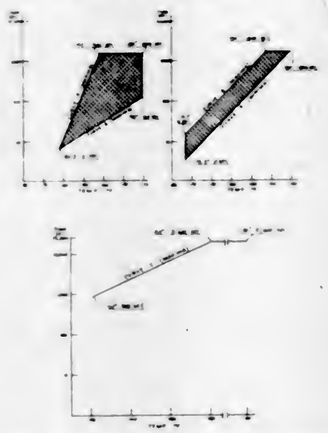
1. Process for the production of a photographic reversal image in a photographic material containing two layers spread on the same support, the top layer being an unhardened light-sensitive silver halide gelatine emulsion layer, the bottom layer being a hardened receiving layer, which comprises exposing said light-sensitive layer to light treating the so exposed material with a silver halide developer to develop the exposed silver halide and then treating the said material containing silver halide developer with an aqueous solution of a thiosulphate and gelatine solvent selected from the group consisting of thiocyanates and organic sulphonic acids, said solvent being present in a concentration of approximately 100 grams per liter.

2,663,642

PROCESS OF CONCENTRATING MILK AND PRODUCT

Randall Whitaker, Sayville, and Alexander C. Herro, Oakdale, N. Y., assignors to National Dairy Research Laboratories, Inc., Islip, N. Y., a corporation of Delaware

Application June 26, 1951, Serial No. 233,566
22 Claims. (Cl. 99—55)



1. In the process of preparing a concentrated milk which includes the steps of preheating the milk at a temperature at which lipase activity is reduced, concentrating the milk under reduced pressure and pasteurizing the milk, the improvement which comprises maintaining the temperature and duration of the treatment in the preheating step within the shaded area of Fig. 1, in the concentrating step as defined by curve C and within the area below curve C of Fig. 2 and in the pasteurizing step within the shaded area of Fig. 3, whereby damage of flavor-imparting milk constituents with attendant development of "cooked" flavor are avoided and a concentrated milk is produced which can be reconstituted with water to produce a milk substantially indistinguishable in flavor from the original unconcentrated milk after pasteurization.

2,663,643

MILK POWDER AND ITS PREPARATION

Francis Frederick Hansen, Pittsburgh, Pa.

No Drawing. Application December 19, 1950, Serial No. 201,703
4 Claims. (Cl. 99—56)

1. A dry skim milk powder particularly adapted to improve the volume of oven-spring of baking dough, comprising a chlorinated dry skim milk powder containing less than 1% fat in which the chlorination has changed the reducing action of the —S—H radicals of the sulphydrils to a neutral —S—S radical in the structure.

2,663,644

PREPARATION OF MILK POWDER

Francis Frederick Hansen, Pittsburgh, Pa.

No Drawing. Application December 19, 1950, Serial No. 201,704
6 Claims. (Cl. 99—56)

1. A process of treating a dry skim milk powder to particularly eliminate its reducing action to adapt it to improve the volume and oven-spring of yeast rising baking dough, comprising reducing the milk to a powder of a minimum of two hundred mesh, thoroughly exposing the particles of the powder to irradiation with ultra-violet light of 2500 to 3000 Angstrom wave lengths for a period of twenty to forty minutes to complete the oxidation of the —S—H radicals of the sulphydrils to neutral —S—S radicals.

2,663,645

METHOD OF TREATING POPCORN

Robert Park, Cohasset, Minn.

No Drawing. Application March 3, 1951, Serial No. 213,799
2 Claims. (Cl. 99—81)

1. The method of treating unpopped corn kernels which comprises preparing an aqueous solution containing a non-toxic oil solvent and a non-toxic dye, heating said solution to approximately its boiling point, exposing said kernels to said solution, then washing said kernels with water until no traces of dye remain, draining said kernels, drying said damp kernels until the moisture content thereof is reduced to a predetermined percentage, and finally aging said kernels.

2,663,646

BALL MILLED HIGH CALCIUM LIME AND PROCESS OF MAKING THE SAME

Harry N. Huntzicker, Evanston, Manvel C. Dailey, Elmhurst, and Bradford R. Minnis, Glenview, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application March 17, 1951, Serial No. 216,266
5 Claims. (Cl. 106—118)

2. Process of producing immediately plastic hydrated high calcium lime which comprises mix-

ing therewith from about 1% to about 15% by weight thereof of a natural uncalcined plastic siliceous substance and ball milling the mixture under controlled temperature conditions so as not to exceed a temperature of about 87° C. as to the contents of the mill, and so as not to lower the moisture content of the hydrated lime in the mill below about 0.1% by weight.

2,663,647

HYDRATED LIME COMPOSITION AND PROCESS

Harry N. Huntzicker, Evanston, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application June 16, 1951, Serial No. 232,055
7 Claims. (Cl. 106—118)

1. An improved dolomitic finishing lime comprising essentially two components one of which is a substantially fully hydrated dolomitic lime consisting essentially of hydrated calcium oxide and hydrated magnesium oxide and the other of which is a partially hydrated dolomitic lime consisting essentially of hydrated calcium oxide and of unhydrated magnesium oxide.

2,663,648

THERMALLY STABLE BITUMINOUS BONDING COMPOSITIONS

Murray Jelling, Brooklyn, N. Y.

No Drawing. Application November 21, 1950, Serial No. 196,929
13 Claims. (Cl. 106—273)

1. A bituminous composition containing a thermally stable bonding agent selected from the group consisting of N-dialkylaminoalkylamides corresponding to the general formula:

$$RCO—NR'—A—NR''_2$$

and their carboxylic acid salts corresponding to the general formula:

$$RCO—NR'—A—NR''_2.HO—OCR$$

where RCO— is an acyl group derived from a carboxylic acid selected from the group consisting of C_{12}–C_{20} fatty acids and rosin acids; A is an alkylene group containing from 2 to 6 carbon atoms; R′ is a radical selected from the group consisting of hydrogen and alkyl radicals containing from 1 to 4 carbon atoms; and R″ is an alkyl group containing 1 to 4 carbon atoms.

2,663,649

ESTER MODIFIED POLYAMIDE RESINS

William B. Winkler, Chicago, Ill., assignor to T. F. Washburn Co., Chicago, Ill., a corporation of Illinois

Application July 1, 1952, Serial No. 296,613
28 Claims. (Cl. 106—287)

19. A thixotropic vehicle for protective coatings comprising a product obtained by heating a polyamide resin having a molecular weight between approximately 3000 and 9000 which is formed by the reaction of dimerized and trimerized unsaturated fat acids with an alkylene polyamine with two to four amine substituents, and a vehicle selected from the group consisting of glyceride oils, oil-modified alkyd resins and varnish ester bodies at a temperature above the melting point of said polyamide resin but below 600° F. until a one part sample mixed with nine parts of mineral spirits when cooled to room temperature shows no graininess, and has maximum turbidity and a cloudy appearance.

2,663,650

PROCESS FOR PREPARING COATED SILICA PARTICLES AND PRODUCT OBTAINED THEREBY

Ralph K. Iler, Cleveland Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 15, 1949, Serial No. 99,355
5 Claims. (Cl. 106—308)

1. A composition comprising silica in the form of pulverulent aggregates of substantially spherical, ultimate particles, the composition being substantially identical with the product produced by a process including the steps of building up the size of ultimate silica particles in an aqueous silica sol by adding reactive silica thereto at a pH of 8 to 11 and a temperature of about 60 to 100° C., the reactive silica being freshly prepared by neutralizing sodium silicate with an acid, until the particles in the sol are in the size range of 15 to 130 millimicrons, the particles being so dense that their surface area as determined by nitrogen adsorption is not more than about 30 per cent greater than their surface area as computed from the apparent particle size determined from an electron micrograph of the particles, and mixing in solution in the sol of built-up particles an organic nitrogen compound having a carbon chain of at least 10 carbon atoms in the proportion of about from 0.1 to 10.0 per cent by weight, based on the silica, whereby the silica is precipitated.

2,663,651

METHOD OF CONCEALING DEFECTS IN A SURFACE

Alfred E. Kowall, Westchester, Ill., assignor of one-half to Edward A. Kirwin, Wilmington, Del.

No Drawing. Application November 27, 1951, Serial No. 258,531
3 Claims. (Cl. 117—2)

1. The process of concealing minor defects in a surface being covered with a flat finish of oil or water base paint consisting of first covering the defect with a thick paste consisting of common ground mica mixed with a sufficient quantity of the particular covering paint, and thereafter applying the paint while the paste is still wet.

2,663,652

PROCESS FOR COATING WITH POLYETHYLENE

Wilford E. Railing, Penns Grove, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 4, 1950, Serial No. 147,770
10 Claims. (Cl. 117—21)

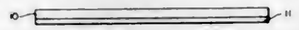
1. A method of coating surfaces with polyethylene having a melting point of at least 105° C. and a viscosity at 190° of at least 25,000 poises, which comprises applying to the surface to be coated a powdered mixture of such polyethylene and from 20% to 200%, based on the weight of the polyethylene, of a volatile solvent material of the class consisting of hydrocarbons and chlorinated hydrocarbons having a boiling point of 150° to 300° C. and which dissolves polyethylene at temperatures above 120° C., and baking the material coated with said mixture at temperatures of 120° to 230° C. but below the atmospheric boiling point of the solvent material until substantially all of the solvent is removed.

2,663,653

MANIFOLD SHEET AND PROCESS OF MAKING SAME

Jerome G. Zimmerman, West Milton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio

Application March 17, 1948, Serial No. 15,501
8 Claims. (Cl. 117—36)



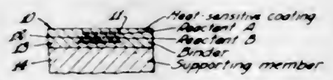
3. In the process of producing a manifold sheet comprising the steps of coating a surface of a sized sheet of paper with a colorless emulsion containing a substantially inert water-immiscible organic liquid which is volatile at room temperature, water, a water-soluble metallic compound selected from the group consisting of lead, silver, stannous tin and bismuth which compound is capable of reacting with hydrogen sulfide gas to produce a dark color, and a water-insoluble polyvalent metal salt of a carboxylic acid selected from the group consisting of the higher fatty acids, naphthenic acid and resin acids, which latter salt is incapable of producing a dark color with this gas, the said organic solvent being present in an amount by weight exceeding that of all the other components in the emulsion, then causing this coated sheet to dry, the amount of deposited metallic compounds being sufficient to provide a pressure transferable coating.

2,663,654

HEAT-SENSITIVE COPYING PAPER

Carl S. Miller and Bryce L. Clark, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application May 15, 1952, Serial No. 288,003
7 Claims. (Cl. 117—36)



1. A heat-sensitive copying-sheet for making direct, high contrast, clear detail copies of graphic subject-matter as herein described, said copying-sheet comprising a support having low thermal conductivity, and a heat-sensitive layer containing, uniformly dispersed in a film-forming, transparent binder non-fusing at temperatures below about 120° C., a multitude of closely spaced particles of at least two visibly inter-reactive solids of which one is a liquid at temperatures above normal room and storage temperatures and within the range of about 60–120° C. and is an iron salt of a solid long-chain fatty acid, and the second inter-reactive particulate solid is a phenol, said inter-reactive solids in said heat-sensitive layer being stable at temperatures less than about 60° C. and being rapidly visibly inter-reacted when the copying sheet is heated to 120° C.

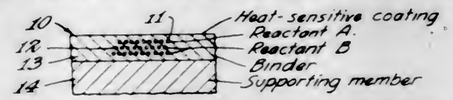
2,663,655

HEAT-SENSITIVE COPYING PAPER

Carl S. Miller and Bryce L. Clark, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application May 15, 1952, Serial No. 288,004
7 Claims. (Cl. 117—36)

1. A heat-sensitive copying-sheet for making direct, high contrast, clear detail copies of graphic subject-matter as herein described, said copying-sheet comprising paper coated with a heat-sensitive layer containing, uniformly dispersed in a film-forming binder non-fusing at temperatures below about 120° C., a multitude of closely spaced solid particles of stable ionizable dissociable materials comprising a salt of a heavy metal the sulfide of which is colored, and an alkaline earth metal sulfide, at least one of said heavy metal salt and said alkaline earth metal sulfide melting at a temperature within the range of about 60–120° C. and being present in an amount such that on fusion and reaction with other materials a visible change is produced in the heat-sensitive layer, said materials being



maintained in physically distinct and chemically inter-reactive relationship in said layer at normal room and storage temperatures, said materials being capable of rapidly visibly reacting at normal room temperature in a direct ion-exchange electron acceptor-donor chemical reaction in a mutual solvent capable of permitting ionization of said materials and with the formation of a stable, visibly distinct, highly polarized compound which is less dissociable than either of said materials, and said materials in said heat-sensitive layer being stable at temperatures less than about 60° C. and being rapidly visibly inter-reacted when the copying-sheet is heated to 120° C.

2,663,656

HEAT-SENSITIVE COPYING PAPER

Carl S. Miller and Bryce L. Clark, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application May 15, 1952, Serial No. 288,005
7 Claims. (Cl. 117—36)



1. A heat-sensitive copying-sheet for making direct, high contrast, clear detail copies of graphic subject-matter as herein described, said copying-sheet being non-sticking at 120° C., being stable at normal room and storage temperature, and being rapidly and permanently visibly changed when heated from room temperature to 120° C.; said copying-sheet comprising a support having low thermal conductivity, and a heat-sensitive layer firmly bonded thereto and containing a plurality of stable ionizable dissociable normally solid reactant materials including at least one electron donor component and at least one electron acceptor component disposed in contiguity with each other in said layer, at least one of said components being fusible at a temperature within the range of about 60–120° C. and being present in an amount such that on fusion and reaction with other components a visible change is produced in the heat-sensitive layer, said components being maintained in physically distinct and chemically inter-reactive relationship in said layer at normal room and storage temperatures, and said components being so selected as to be inter-reactive in a direct ion-exchange electron acceptor-donor chemical reaction at room temperature in a mutual solvent capable of permitting ionization of said components and with the formation of a stable, visibly

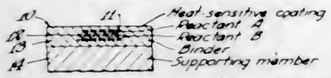
distinct, highly polarized compound which is less dissociable than either of said components; and said reactant materials being further characterized in that an electron acceptor component is an ionizable compound of an anion and a polyvalent metal cation, and an electron donor component is an ionizable organic chelating agent.

2,663,657

HEAT-SENSITIVE COPYING PAPER

Carl S. Miller and Bryce L. Clark, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application May 15, 1952, Serial No. 288,006
12 Claims. (Cl. 117—36)



1. A heat-sensitive copying-sheet for making direct, high contrast, clear detail copies of graphic subject-matter as herein described, said copying-sheet being non-sticking at 120° C., being stable at normal room and storage temperatures, and being rapidly and permanently visibly changed when heated from room temperature to 120° C.; said copying-sheet comprising a support having low thermal conductivity, and a heat-sensitive layer firmly bonded thereto and containing a plurality of stable ionizable dissociable normally solid reactant materials including at least one electron donor component and at least one electron acceptor component disposed in contiguity with each other in said layer, at least one of said components being fusible at a temperature within the range of about 60–120° C. and being present in an amount such that on fusion and reaction with other components a visible change is produced in the heat-sensitive layer, said components being maintained in physically distinct and chemically inter-reactive relationship in said layer at normal room and storage temperatures, and said components being so selected as to be inter-reactive in a direct ion-exchange electron acceptor-donor chemical reaction at room temperature in a mutual solvent capable of permitting ionization of said components and with the formation of a stable, visibly distinct, highly polarized compound which is less dissociable than either of said components.

2,663,658

ORNAMENTAL CRYSTALLINE GLAZE

Harry G. Schurecht, Detroit, Mich., assignor to Champion Spark Plug Company, Toledo, Ohio, a corporation of Delaware

No Drawing. Application July 5, 1951, Serial No. 235,380
19 Claims. (Cl. 117—70)

1. A ceramic body carrying a silica-free ornamental ceramic glaze containing crystals visible to the naked eye, wherein the glaze is lower melting than the ceramic base, and consists essentially of at least one glaze-forming oxide of the group consisting of PbO, Na_2O, K_2O, MgO, CaO, BaO, B_2O_3, ZnO, SrO, and Bi_2O_3, and the crystals are composed of at least one high melting oxide of the group consisting of the oxides of Ti, Al, Ge, Zr, Sn, Se, Ce, Cr, Te, W, V, and Cb, and wherein the weight ratio of high melting oxides to glaze-forming oxides exceeds 1:1 but is not greater than 19:1.

9. A method for producing a silica-free ornamental ceramic glaze on a ceramic base higher melting than said glaze which comprises (1) applying a glaze slip consisting essentially of water, at least one glaze-forming oxide of the group consisting of PbO, Na_2O, K_2O, MgO, CaO, BaO, ZnO, B_2O_3, SrO, and Bi_2O_3, and at least one high melting oxide of the group consisting of the oxides of Ti, Al, Ge, Zr, Sn, Ce, Cr, Se, Te, W, V, and Cb wherein the weight ratio of the latter oxides to the former exceeds 1:1 but is not greater than 19:1 to the surface of the ceramic body; (2) heating the ceramic body coated with the glaze slip to a temperature between about 1300° F. and about 2500° F. sufficient to fuse the oxides in the latter but insufficient to fuse a substantial portion of the ceramic body; and (3) cooling the ceramic body and the fused glaze to supersaturate the latter and any fused portion of the ceramic body with the high melting oxide and form visible crystals thereof.

2,663,659

JOINT CONSTRUCTION IN A SEGMENTED INFLATABLE FABRIC MEMBER

Ralph L. Miller, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application February 27, 1951, Serial No. 213,013
5 Claims. (Cl. 154—43)



1. An inflatable fabric member of unitary construction having substantially planar surfaces comprising a plurality of segments having fluid-impervious fabric plies in spaced opposed substantially parallel relation in the inflated condition and disposed in edge-to-edge relation to form a single pneumatic chamber; a fabric element embodying a pair of strips attached together in superposed relation and defining a plurality of spaced apertures therein, an end portion of each strip being doubled back and secured to the exposed surfaces of the segments adjacent the adjoining edges thereof, the length of the element between the end portions being substantially equal to the space between the plies in the inflated condition; a tape covering the end portions of the strips and adhesively secured to the segments; and an inflating member on one of the segments.

2,663,660

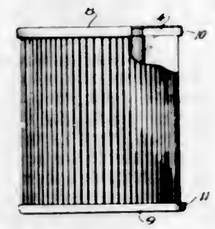
METHOD OF ASSEMBLING FILTER ELEMENTS

Ralph R. Layte, Westfield, N. J., assignor to Purolator Products, Inc., Rahway, N. J., a corporation of Delaware

Application May 25, 1951, Serial No. 228,223
6 Claims. (Cl. 154—81)

1. The method of fabricating a filter element which comprises pleating an elongated strip of filter paper transversely to its length, applying adhesive material to the ends of the pleating, rolling the strip into an annulus composed of a single layer of pleated paper and having its axis parallel to the line of pleatings, applying solvent

material to the adhesive material on the ends of the annulus, and capping the ends of the pleating



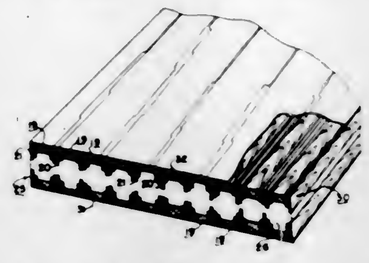
with annular caps whereby the caps adhere to the ends of the annulus.

2,663,661

METHOD OF MAKING PLYWOOD FROM WOOD WASTE AND PRODUCT RESULTING THEREFROM

Clarence U. Gramelspacher, Jasper, Ind.

Application October 8, 1951, Serial No. 250,317
2 Claims. (Cl. 154—118)



1. A method of making a built-up wood product from waste plywood strips which comprises the steps of assembling together a plurality of waste plywood strips, each of said wood strips having three flat surfaces matching the flat surfaces of the other strips and a fourth irregular surface, aligning said strips in a first row with the matching surfaces of adjacent strips in engagement and the irregular surfaces facing upwardly, filling the space between the irregular surfaces with comminuted wood particles, placing a second row of wood strips aligned like said first row upon the body of wood particles with the irregular surfaces thereof facing downwardly and in opposed relationship to said first row, and filling the space between the irregular surfaces of said opposed rows to form a built-up wood product from waste plywood.

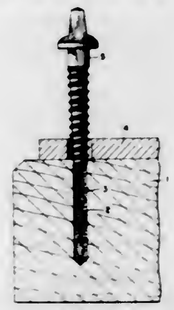
2,663,662

SECURING MECHANICALLY STRESSED CONSTRUCTIONAL MEMBERS TO WOODEN SUPPORTS

Fritz Graf, Ludwigshafen (Rhine), and Tim Toepel, Ludwigshafen (Rhine-Oggersheim), Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Rheinland-Pfalz, Bundesrepublik, Germany

Application July 25, 1951, Serial No. 238,588
Claims priority, application Germany August 26, 1950
4 Claims. (Cl. 154—119)

1. A process for effecting a durable connection between a mechanically strongly stressed constructional part and a wooden part with the aid of securing means which comprises providing in said wooden part a hole closed at one end for the close reception of said securing means, introducing a condensation product of a diurethane and formaldehyde into said hole in a fluid state, in-



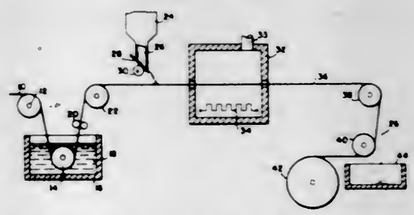
serting said securing means into said hole and thereby forcing said condensation product into said wooden part in the area surrounding said hole, concomitantly engaging said constructional part and said securing means, and hardening said condensation product.

2,663,663

THERMOSETTING SYNTHETIC RESIN LAMINATE WITH A PREDETERMINED ROUGHENED SURFACE AND PROCESS FOR PRODUCING THE SAME

William C. Weltman and Charles G. Kepple, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 10, 1952, Serial No. 265,886
8 Claims. (Cl. 154—121)



1. In the method of preparing an undercut roughened surface on a thermoset resinous laminated body, the steps comprising covering a varnished sheet which is to form the top sheet of the laminated body with a uniform layer of finely divided marble which will pass through a sieve having from 100 to 300 meshes per lineal inch, the varnish on said sheet being wet due to solvent being present and in the A stage at the time of application of said marble, heating the sheet to evaporate the solvent in the varnish and to advance the covered sheet to the B stage, positioning the marble covered B stage sheet with its marble covered side facing outwardly on a stack of resin impregnated sheets to be laminated, subjecting the assembled sheets to heat and pressure to form a cured laminate whereby the marble is imbedded in the surface of the body to be roughened, the marble being slightly imbedded to the extent that a thin film of resin covers the marble, removing the film of resin to a depth sufficient to expose the uppermost surfaces of the imbedded particles of marble, and removing the imbedded marble by leaching with a mineral acid.

2,663,664

MITICIDAL DIHYDRAZIDE COMPOSITION

Jacob Shore, Buffalo, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application July 11, 1950, Serial No. 173,250

4 Claims. (Cl. 167—22)

1. A composition having miticidal activity which consists essentially of a dispersion of about 0.5 to 5 weight per cent of an acyclic dihydrazide of an aliphatic dicarboxylic acid in an inert compatible powder as a carrier, said acid being saturated, unsubstituted and straight chain, and containing from 3 to 10 carbon atoms.

2,663,665

N-NAPHTHYL MALEAMIC ESTERS

Waldo B. Ligett, Berkley, Calvin N. Wolf, Ferndale, and Rex D. Closson, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application April 30, 1951, Serial No. 223,824

11 Claims. (Cl. 167—32)

1. The lower alkyl esters of N-naphthyl maleamic acid.

2,663,666

PROCESS OF PREPARING CRYSTALLINE INSULIN FROM ACID ALCOHOLIC EXTRACTS OF PANCREAS GLANDS

Jan Daniël Herman Homan, Oss, Netherlands, assignor to Organon Inc., Orange, N. J., a corporation of New Jersey

No Drawing. Application March 15, 1950, Serial No. 149,885

Claims priority, application Netherlands March 31, 1949

3 Claims. (Cl. 167—75)

1. In a process of preparing crystalline insulin from clear to opalescent acid alcoholic extracts of pancreas glands, the steps comprising reducing the alcohol content of said extract to not less than 47% and not more than 52%, adjusting the pH value of said extract to between about 4.0 and about 5.5 thereby precipitating the reducing material present in said extract and removing the formed precipitate.

2,663,667

YEAST FERMENTATION PROCESS

Henry Lampson Scott, Beuchel, Ky., assignor to Brown-Forman Distillers Corporation, Louisville, Ky., a corporation of Delaware

No Drawing. Application February 24, 1949, Serial No. 78,236

5 Claims. (Cl. 195—37)

1. The process of making alcohol and nitrogenous compounds which comprises: preparing a cereal mash, inoculating said mash with yeast; allowing the yeast to proliferate under aerobic conditions; fermenting the mash under anaerobic conditions; and introducing gaseous ammonia into the mash commencing near the end of the proliferation period and continuing the addition of gaseous ammonia during the fermentation period at a rate controlled to maintain the pH of the mash within a range extending from about 4.0 to 5.5 over said period.

2,663,668

PROCESS FOR PRODUCING ARGINASE

Ved Vrat, Belmont, Calif., assignor to The Permanente Foundation, Oakland, Calif., a charitable trust

No Drawing. Application August 9, 1951, Serial No. 241,153

9 Claims. (Cl. 195—66)

1. In a process for producing arginase, the improvement which comprises drying biological tissue, admixing therewith water containing at least one activator for arginase chosen from the group consisting of cobaltous nitrate, cobaltous sulfate, manganous sulfate and manganous dihydrogen phosphate while maintaining said admixture at a pH of from 7.0 to 9.5, separately recovering the liquid portion of said mixture, extracting said liquid portion with from over one-half to three-fourths its volume of acetone while maintaining said extraction mixture at not over about 5° C., whereby proteins are precipitated, recovering the liquid portion of said extraction mixture, admixing said liquid with a second portion of from over one-half to three-fourths its volume of acetone while maintaining said mixture at not over about 5° C., whereby an arginase-enriched fraction is precipitated, dissolving said precipitate in water, heating said solution to from 60° C. to 80° C., rapidly cooling said solution to not over 3° C. whereby a precipitate is formed, separately recovering the solution portion, admixing with said solution portion a lead salt in amount to provide not over 0.25 mg. of lead ions per cc. of solution, whereby a precipitate is formed, separately recovering the resultant solution portion, admixing with said resultant solution from more than one-half to about three-fourths volume of acetone whereby a precipitate is formed, separately recovering the solution portion, admixing therewith at least one-half its volume of acetone, and recovering the resultant precipitate.

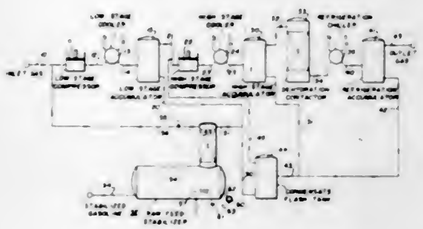
2,663,669

METHOD OF STABILIZING RAW GASOLINE

Brunner C. Barnes, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application July 1, 1950, Serial No. 171,620

4 Claims. (Cl. 196—11)



1. A process for the separation and recovery of a stabilized liquid fraction from a wet hydrocarbon gas mixture comprising passing a feed stream of said gas to a first compression zone and to a first cooling zone, compressing and cooling said gas in said compression zone and said cooling zone to a pressure and temperature to condense from said gas a cold liquid hydrocarbon fraction, passing said gas and said cold liquid fraction to a first separation zone, separating uncondensed gas from said cold liquid fraction in said first separation zone, removing cold liquid fraction from said first separation zone, passing directly to a gas-liquid contact zone said cold liquid fraction at a temperature not substantially higher than its temperature in said first separation zone, removing uncondensed gas from said first separation zone, passing said gas from said first separation zone to a second compression zone and to a second cooling zone, compressing and cooling said gas in said second compression zone and said second cooling zone to a pressure and temperature to condense from said gas a cold liquid hydrocarbon fraction, passing said gas and said cold liquid fraction to a second separation zone, separating uncondensed gas from said liquid fraction in said second separation zone, removing uncondensed gas from said second separation zone, removing said cold liquid fraction from said second separation zone, passing said cold liquid fraction from said second separation zone to a pressure reduction zone, reducing the pressure on said cold liquid fraction in said pressure reduction zone to separate a gas phase therefrom, removing said gas phase from said pressure reduction zone, admixing said gas phase removed from said pressure reduction zone with said gas entering said second compression and cooling zones, removing said liquid fraction from said pressure reduction zone, passing said liquid fraction to said gas-liquid contact zone, passing said liquid fractions through said gas-liquid contact zone to a heating zone, heating said liquid fractions in said heating zone to stabilize said liquid fractions by vaporizing therefrom a gas phase containing undesired light hydrocarbon, passing said gas phase through said gas-liquid contact zone in countercurrent contact with only said liquid fractions passing through said gas-liquid contact zone, removing said gas phase from said gas-liquid contact zone, passing the entire amount of said gas phase removed from said gas-liquid contact zone directly to said first compression zone, and recovering a stabilized liquid fraction from said heating zone.

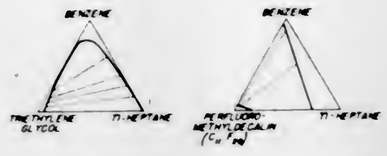
2,663,670

SOLVENT EXTRACTION

Alfred W. Francis and George C. Johnson, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application December 4, 1951, Serial No. 259,746

12 Claims. (Cl. 196—14.2)



1. The process of resolving a hydrocarbon mixture containing aromatic and non-aromatic hydrocarbons into fractions of different degrees of aromaticity, which comprises: contacting the mixture with a solvent (A) comprising a fluorocarbon represented by the general formula

$$C_xF_y$$

wherein x represents the number of carbon atoms and is an integer from about four to about twenty and y represents the number of fluorine atoms and is an integer from about eight to about forty, and with a second solvent (B) having the following characterizing features:

(1) Incomplete miscibility with the hydrocarbon mixture;

(2) Incomplete miscibility with the fluorocarbon (A);

(3) Forms three phases with the hydrocarbon mixture and the fluorocarbon (A);

and

(4) Has a preferential affinity for aromatic hydrocarbons;

effecting phase separation of the phases thus formed, a fluorocarbon (A) extract phase, a solvent (B) extract phase, and a hydrocarbon phase.

2,663,671

METHOD OF BREAKING A UREA COMPLEX

Everett Raymond Wiles, George Lentton Meyers, and Harold Hedrick Coffman, Barnsdall, Okla., assignors, by mesne assignments, to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin

No Drawing. Application August 17, 1949, Serial No. 110,888

6 Claims. (Cl. 196—17)

1. In the process of breaking a complex of urea and solid hydrocarbons, said complex containing about 1 to about 5% water, the steps which comprise heating said complex in the presence of a solvent consisting essentially of a liquid hydrocarbon which is a non-solvent for urea and non-reactive with urea until both urea and a solvent solution of the solid hydrocarbons, separate, cooling with agitation until the urea crystallizes in a granular form but above the temperature at which the urea will combine with regenerated hydrocarbon in said solvent, and removing the urea in a form suitable for reaction with further hydrocarbon.

2,663,672

PRODUCTION OF ASPHALT

Charles A. Kraus, Providence, R. I., and David W. Young, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application April 1, 1952, Serial No. 279,916

5 Claims. (Cl. 196—22)

4. The method of upgrading an asphalt material which comprises reacting the said asphaltic material with a halide derivative of SiH_4 at a temperature of about 200 to 600° F. for a period longer than about one-half hour.

2,663,673

DESULFURIZATION OF PETROLEUM OILS

Mathew L. Kalinowski, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application May 26, 1951, Serial No. 228,546

7 Claims. (Cl. 196—24)

1. A process for reducing the sulfur content of a sulfur-containing petroleum naphtha, which process comprises contacting said naphtha in the liquid state at a temperature below about 110° F. with a solid asphaltene in a weight ratio of naphtha-to-asphaltenes from about 1 to about 6, and separating solid asphaltenes from the treated naphtha, wherein said asphaltenes are obtained by precipitation from a member of the

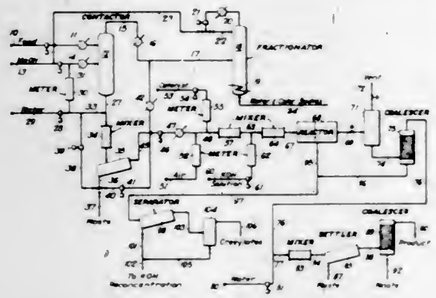
class consisting of reduced crude, tars and bitumens by treatment thereof with an excess of a light paraffinic precipitation agent containing from 5 to 6 carbon atoms.

2,663,674

REFINING SOUR HYDROCARBON OILS

Jack H. Krause and Russell H. Brown, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application March 17, 1950, Serial No. 150,162
9 Claims. (Cl. 196—29)



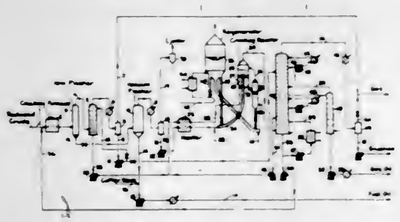
1. The process of removing mercaptans from a sour hydrocarbon distillate which is higher boiling than gasoline with a minimum of color degradation which comprises contacting the sour distillate with about 5 to 200 per cent by volume of non-alkaline methanol solvent which contains not more than about 10 volume per cent of water, separating the solvent and dissolved color-forming bodies from the extracted oil, water washing the extracted oil to remove dissolved methanol solvent, treating the washed oil with about 1 to 15 per cent by volume of a concentrated aqueous caustic solution, introducing a free-oxygen containing gas into the mixture of oil and caustic solution, maintaining the temperature of treating at between about 80° to 125° F., said caustic solution also containing an effective amount of a copper compound which is active as an oxidation catalyst, and separating spent caustic solution and associated reaction products from the treated oil.

2,663,675

CONVERSION OF HYDROCARBON OILS

Robert Bartlett Ewell, Berkeley, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application October 29, 1951, Serial No. 253,681
Claims priority, application Netherlands November 23, 1950
3 Claims. (Cl. 196—49)



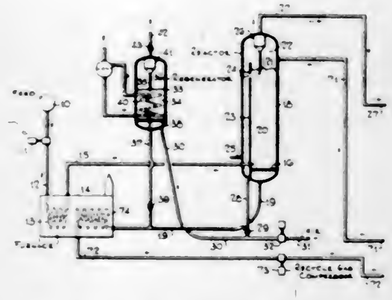
1. A process for the conversion of hydrocarbon oils in which a higher boiling and a lower boiling distillate fraction are prepared from an initial material of the nature of reduced crude petroleum and separately catalytically cracked, characterized in that the initial material is subjected to a mild thermal cracking treatment in the presence of added recycle heavy oil produced as hereinafter specified and then subjected to a flash distillation under substantially atmospheric pressure to separate said lower boiling distillate fraction from a first residue fraction, said first residue fraction is subjected to a flash distillation at sub-atmospheric pressure to separate said higher boiling fraction and a second residue, said second residue is blended with cutter stock to produce fuel oil, said higher boiling fraction is subjected to a mild catalytic cracking treatment at a relatively high temperature with freshly regenerated cracking catalyst, said lower boiling distillate fraction is mixed with a light oil, produced as hereinafter described, and subjected to a relatively severe catalytic cracking treatment under conditions to produce a maximum amount of gasoline with catalyst partially spent in treating said higher boiling fraction, the products of said two cracking treatments being passed to a common fractionation zone wherein there are separated and removed as separate streams a gasoline plus gas fraction, a light gas oil fraction which is said light oil and is admixed with the said lower boiling fraction and subjected to relatively severe catalytic cracking as aforesaid, and a higher boiling residue fraction which is said recycle heavier oil and is subjected to the aforesaid mild thermal treatment with said initial material as aforesaid.

2,663,676

CATALYST RECOVERY

Milton M. Cardwell and Otha C. Roddey, Baton Rouge, La., and Charles W. Tyson, Summit, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application March 16, 1951, Serial No. 216,049
9 Claims. (Cl. 196—50)



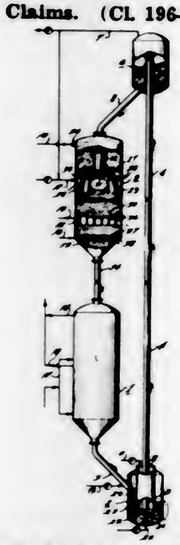
1. In a process for the conversion of hydrocarbons in contact with finely divided catalyst particles in accordance with the fluidized solids technique wherein hydrocarbon feed stock is contacted with a dense, fluidized bed of catalyst particles in the lower portion of the conversion zone, the improvement which comprises withdrawing a stream of vaporous reaction products containing residual amounts of entrained catalyst particles from the top of the conversion zone, partially condensing the product vapors to separate the residual catalyst as a slurry in heavy product and recycling the recovered residual catalyst directly into the disperse phase in the upper portion of the conversion zone.

2,663,677

PROCESSING HYDROCARBONS

Reuben T. Savage, Ridley Park, and Edwin H. Ivey, Jr., Glenolden, Pa., assignors to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application February 28, 1950, Serial No. 146,646
10 Claims. (Cl. 196—52)



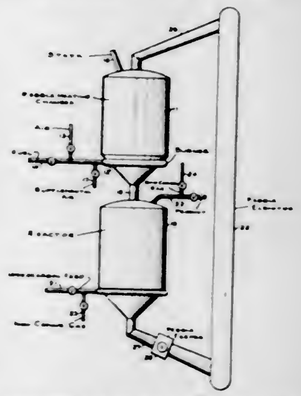
1. The method which comprises flowing a vapor stream into a body of hot freshly regenerated granular cracking catalyst under pressure to effect suspension of catalyst in the stream, said vapor stream essentially comprising crackable hydrocarbons and being substantially free of unvaporized liquid hydrocarbons, transporting the catalyst under the impelling influence of the suspending vapors through an upflow path, disengaging catalyst from vapors at the upper end of said upflow path, thereafter passing the still hot catalyst in downward direction to supply a gravitating compact bed thereof with a continuously replenished upper surface, at least a portion of the catalyst so supplied being passed through a liquid contact zone wherein it is contacted with hydrocarbon oil in liquid state, said oil being at a temperature below that of said catalyst and being vaporized by transfer of contained sensible heat from catalyst passed through said liquid contact zone; passing vaporized oil thus produced, together with the other hydrocarbon vapors disengaged at the upper end of said upflow path, through said compact bed of catalyst while said catalyst is still at hydrocarbon conversion temperature, to effect further reaction and conversion of said vaporized oil and the other hydrocarbon vapors; the proportionate quantity of hydrocarbon in the vapor stream employed for suspending and transporting the catalyst through said upflow path being selected with respect to the difference in temperature of the catalyst and such vapors, that cooling of catalyst during such transportation is not in excess of 100° F. and the body of hot freshly regenerated catalyst originally suspended in said transporting vapor stream being at a temperature and having a heat content at least sufficient to supply the heat required for vaporization of said liquid hydrocarbon oil and for conversion of hydrocarbons of the said vaporized oil as well as the said other hydrocarbon vapors.

2,663,678

DECOKING OF PEBBLES IN PEBBLE HEATER CRACKING OF HYDROCARBONS

Myron O. Kilpatrick, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application July 10, 1950, Serial No. 172,986
13 Claims. (Cl. 196—55)



1. In a process for conversion of hydrocarbons in a pebble heater in which refractory heat carrying pebbles are successively heated to a temperature above conversion temperature in the range of 1500 to 2500° F. in an upper chamber by contact with hot combustion gas, gravitated to a lower chamber in which they are contacted with a stream of hydrocarbon under cracking conditions so as to deposit coke on said pebbles and gradually cause pebble and coke agglomerates to form, and then said pebbles are transferred to said upper chamber for reheating; the method of removing said coke from said pebbles which comprises discontinuing the flow of hydrocarbon through said lower chamber and passing therethrough a stream of non-deleterious, non-coking gas under the conditions in the reaction zone while simultaneously contacting the pebbles in said upper chamber with an oxygen-containing gas in excess of that present in said upper chamber prior to discontinuing the flow of hydrocarbon to the lower chamber so as to burn coke therefrom; continuing the flow of said last-named gases and said pebbles at least until the major portion of the coke on said pebbles has been removed; and thereafter discontinuing the flow of said gases and resuming said hydrocarbon conversion and heating of said pebbles.

2,663,679

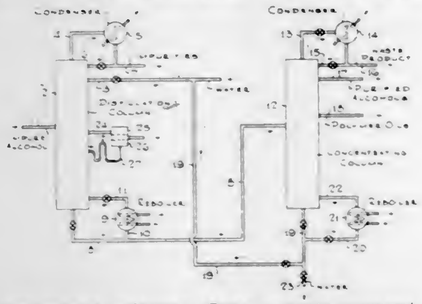
EXTRACTIVE DISTILLATION OF ALCOHOLS OBTAINED FROM OLEFINS

William M. Drout, Jr., Linden, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 31, 1948, Serial No. 68,453
4 Claims. (Cl. 202—39.5)

1. The method of refining a crude C_3—C_5 aliphatic alcohol produced by reaction of a monoolefin, said crude alcohol containing contaminants lower boiling and higher boiling than the alcohol, some of said higher boiling impurities being vaporized with water under distillation conditions hereinafter mentioned and some of said higher boiling impurities being non-vaporizable under said conditions, which comprises introducing the crude alcohol to a fractional distillation zone at an intermediate point thereof, introducing sufficient water at a temperature

of 20–95° C. to the fractional distillation zone at a point substantially above the crude alcohol feed point to maintain an internal liquid reflux having a water content in the range of 65 to 99.9 mol per cent water below the point of addition of the water, distilling from said crude alcohol a vaporous mixture comprising water, the lower boiling impurities and the higher boiling impurities which vaporize with water under the distillation conditions wherein



the vaporous mixture flows countercurrent to the internal aqueous liquid reflux, and removing said vaporous mixture oxerhead from the fractional distillation zone, removing a bottoms product from the distillation zone containing water, alcohol, and the higher boiling impurities which do not vaporize with water, said distillation being conducted without returning to the distillation zone the thus-distilled components of the overhead distillate.

2,663,680

EXTRACTIVE DISTILLATION OF ALLYL ALCOHOL FROM n-PROPYL ALCOHOL

Nat C. Robertson, Corpus Christi, Tex., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application January 8, 1949, Serial No. 69,990

5 Claims. (Cl. 202—39.5)

1. Process for the separation of a mixture comprising essentially n-propyl alcohol and allyl alcohol by distillation operations, which comprises subjecting said mixture to an extractive fractional distillation employing water as the extractant taking aqueous n-propyl alcohol off overhead as one fraction, separating said n-propyl alcohol solution obtained as the overhead product by extracting the same with pentane, and separating an aqueous solution of allyl alcohol as another fraction.

2,663,681

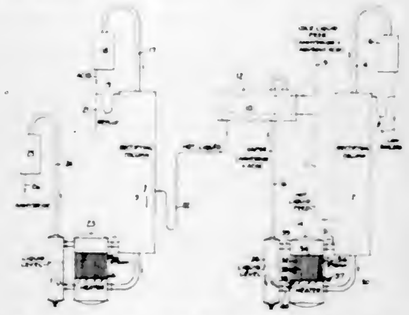
RECOVERY OF LOWER ACID ANHYDRIDES BY DISTILLATION

David C. Hull and William R. Saunders, Longview, Tex., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 21, 1950, Serial No. 175,268

2 Claims. (Cl. 202—40)

1. A method of separating an anhydride of a lower aliphatic acid from liquids containing the anhydride in the presence of lower aliphatic acid, water, and any other lower boiling constituents present which comprises feeding said liquid to a first distillation; heating the liquid in the first distillation in a heating zone connected for liquid passage through a downcomer flow zone outside of the heating zone, which downcomer zone assists in disengaging vapors from liquids passing therethrough, subjecting the liquid in the first distillation to sufficient distilling and fractionation for removing at least a greater part of the water and some of the acid as head products of said first distillation, condensing at least a part of these head products and returning condensate as reflux to the first distillation, accomplishing a preliminary separation of anhydride by removing vapors principally comprised of the anhydride but still containing acid and some water from the portion of said downcomer flow zone above the level of liquid therein, passing these vapors in heat transfer relationship with said feed to the first distillation to condense the vapors to a hot liquid and preheat said feed by transfer of latent heat given up in the condensation of the vapors, flowing this hot liquid to a second distillation, heating this hot liquid in the second distillation sufficiently to distill off as head products substantially all of the acid and any water remaining in said anhydride, withdrawing and condensing these head products, returning a portion of the condensed head products as reflux, and volatilizing off a substantially pure anhydride as the tail product of this second distillation.



2. A process for the separation of anhydrides from a mixture of acetic anhydride, at least one aliphatic anhydride higher than acetic anhydride, acetic acid and water which comprises diluting the aforesaid anhydride mixture with raw acetic anhydride so that the content of the higher anhydride in the diluted mixture does not exceed 25 to 30%, and that the total percentage of anhydride is not more than 50–60% of the mixture being separated, subjecting the mixture thus diluted to a first distillation wherein a substantial part of the water and some of the acid is removed to give a more concentrated anhydride, transferring this more concentrated anhydride to a second distillation wherein acid and water remaining are distilled off leaving a substantially anhydrous mixture consisting essentially of anhydrides and subjecting this mixture of anhydrides to vacuum distillation for separating the acetic anhydride from the higher anhydride.

2,663,682

PURIFICATION OF ALCOHOLS BY AZEOTROPIC DISTILLATION

Bruno Traeger, Mulheim-Heissen, and Walter Rottig, Oberhausen-Sterkrade-Nord, Germany, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany, a joint-stock company of Germany

No Drawing. Application November 16, 1949, Serial No. 127,796

Claims priority, application Germany July 23, 1949

1 Claim. (Cl. 202—42)

The process of recovering higher alcohols from their mixtures with aliphatic hydrocarbons obtained from the hydrogenation of CO with iron catalysts, which comprises separating from such mixtures two fractions, a first fraction having a boiling point of from 110° to 160° C. and containing the C_4 to the C_6 alcohols as well as the corresponding boiling point hydrocarbons, and a second fraction having a boiling point of 160° to 204° C. and containing the C_7 to the C_9 alcohols together with the corresponding boiling point hydrocarbons, adding to each of the said fractions sufficient quantity of propyl alcohol diluted with approximately 25% water to form ternary azeotropes with all of the hydrocarbons present, subjecting each fraction to distillation to drive off an azeotropic mixture of hydrocarbons, added propyl alcohol and water and producing in each case a residual liquor containing the alcohols and treating each of said residual liquors for the recovery and separation of the alcohols therein.

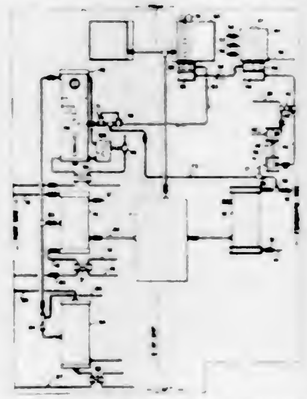
2,663,683

APPARATUS FOR EVAPORATING LIQUIDS

John J. McAndrews, Hempstead, N. Y.

Application May 2, 1952, Serial No. 285,666

2 Claims. (Cl. 202—180)



1. A non-scaling system for evaporating sea-water comprising an indirect heat exchange engine-exhaust steam condenser, a heating unit, a flash evaporator, and an indirect heat exchange distillate condenser, conduit means for introducing cold sea-water into the engine-exhaust steam condenser, further conduit means leading from the engine-exhaust steam condenser to said heating unit, for passing the sea-water from the engine-exhaust steam condenser to the heating unit, a feed water pump in said last named conduit means for placing the sea-water under super-atmospheric pressure, a pressure valve situated in said conduit means between the pump and the heating unit, further conduit means leading from the heating unit to said flash evaporator, a back pressure valve situated in said conduit means between the heating unit and the flash evaporator, the two valves coacting to maintain a constant predetermined super-atmospheric pressure throughout that part of the system situated between said valves, said flash evaporator comprising a sealed chamber maintained under sub-atmospheric pressure, said chamber having therein upper and lower downwardly and outwardly inclined centrally located conical diffusing plates, an annular downwardly and inwardly inclined baffle located between said plates and extending from the sides of said chamber, a centrally located nozzle positioned directly under said lower diffusing plate, the conduit means leading from the heating unit to the flash evaporator being in communication with said nozzle and passing the sea-water from the heating unit to the nozzle; said chamber further having a float valve controlled liquid outlet at the bottom of the chamber and a steam outlet at the top of the chamber, steam conduit means connected to the steam outlet for passing the steam to said indirect heat exchange distillate condenser, and means for maintaining said chamber and said indirect heat exchange distillate condenser under sub-atmospheric pressure.

2,663,684

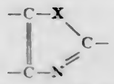
METHOD OF AND COMPOSITION FOR PLATING COPPER

William J. Pierce, Southfield Township, Oakland County, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

No Drawing. Application June 2, 1952, Serial No. 291,344

19 Claims. (Cl. 204—52)

8. An electrolyte for electrodepositing copper consisting essentially of an aqueous acid solution of copper sulfate and free sulfuric acid and having dissolved therein, as a brightener for the electro-deposited copper, a heterocyclic compound having the following heterocyclic ring structural arrangement



wherein X is an atom of group VI of the periodic system selected from the group consisting of oxygen and sulfur, said compound having a concentration in said solution within the range of 0.005–1 gram per liter.

2,663,685

ELECTROLYTIC PRODUCTION OF DIHYDROSTREPTOMYCIN AND SALTS THEREOF

Gabor B. Levy, Lawrenceburg, Ind., assignor to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 17, 1950, Serial No. 190,651

9 Claims. (Cl. 204—75)

1. The process for making a dihydrostreptomycin which comprises cathodically reducing a substance selected from the group consisting of a streptomycin and acid addition salts thereof by introducing the selected substance into the catholyte of an electrolytic cell containing a porous diaphragm which separates an acidic anolyte from a non-alkaline to slightly alkaline catholyte, passing a current through the cell and continuing the resulting electrolysis until substantially all of the streptomycin compound has been converted to the corresponding dihydrostreptomycin compound while maintaining the temperature of the cell below that at which the streptomycin and dihydrostreptomycin decompose in the catholyte.

2,663,686

PRODUCTION OF ELECTROLYTIC CHROMIUM FROM FERROCHROME

Rex R. Lloyd, Joe B. Rosenbaum, and Vernon E. Homme, Boulder City, Nev., assignors to the United States of America as represented by the Solicitor of the Department of the Interior

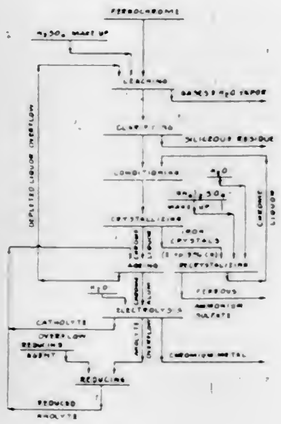
Application July 24, 1951, Serial No. 238,362

5 Claims. (Cl. 204—105)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process for production of electrolytic chromium from ferrochrome comprising leaching said ferrochrome with a hot acidic solution con-

taining chromium depleted liquor from a subsequent stage of the process to thereby form a solution containing chromium sulfate, ammonium sulfate, and iron sulfate, crystallizing the bulk of the iron from said solution in the form of ferrous ammonium sulfate, mixing the remaining liquor with an anolyte effluent solution and a catholyte effluent solution containing chromic sulfate, chromous sulfate, ammonium sulfate, and sulfuric acid, aging the resulting liquor at a pH below 1.2, crystallizing chromium ammonium sulfate from the aged liquor at a temperature higher than that at which said ferrous ammonium sulfate was crystallized, recycling the chromium depleted liquor to provide a substantial portion of the acid solution for leaching said ferrochrome, utilizing the crystallized chromium ammonium sulfate with water to form an electrolyte feed solution, electrolyzing said solution in an electrolytic compartment cell in which chromium is plated from the solution and in which anolyte effluent containing hexavalent chromium, ammonium sulfate, and sulfuric acid and catholyte effluent containing chromium sulfate, chromous sulfate and ammonium sulfate are produced, reducing the hexavalent chromium of the anolyte effluent to lower valence forms, and recycling said reduced anolyte solution and said catholyte solution for admixture with the chrome liquor from which ferrous ammonium sulfate has been removed.



2,663,687

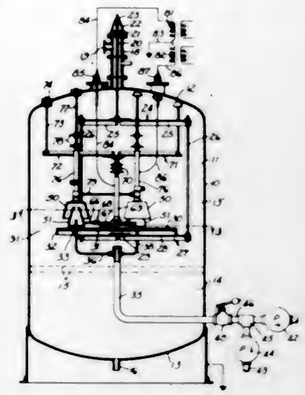
ELECTRIC TREATER

Edmund I. Bailey, Toledo, Ohio, assignor to Petrolite Corporation, a corporation of Delaware

Application September 12, 1947, Serial No. 773,711

7 Claims. (Cl. 204—302)

1. In an electric treater for emulsions, the combination of: a tank adapted to contain a body of oil-continuous material; an inverted cup-like electrode in said tank; a sleeve-like electrode extending upwardly within said inverted cup-like electrode, said sleeve-like electrode having an entrance end; an emulsion discharge pipe discharging upwardly into said entrance end of said sleeve-like electrode and tending to aspirate oil-continuous material into said entrance end; a baffle having a central opening of substantially smaller cross-sectional area than said entrance end and having an outer periphery at least as large as said entrance end; and means for mounting said baffle to extend across said entrance end but spaced from said sleeve-like electrode and



with said pipe extending through said central opening.

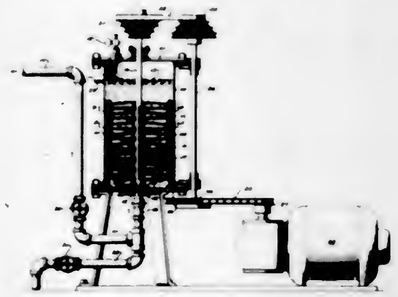
2,663,688

PROCESS OF DEOXIDIZING WATER

Walter A. Patrick, Baltimore, Md.

Application July 18, 1949, Serial No. 105,419

7 Claims. (Cl. 210—23)



1. A process of obtaining water substantially free of occluded oxygen which comprises deoxidizing the water without decomposing the same by continuously passing the water as a thin layer through a relatively large volume of freely flowing mixture of metals consisting of a member of the group of Woods metal, colloidal iron suspended in mercury, and colloidal iron suspended in Woods metal, and maintaining the temperature of said bath such that said bath is in a freely flowing condition.

2,663,689

WELL TREATING SOLUTION

Benson M. Kingston and John B. Childress, Breckenridge, Tex., assignors to The Independent-Eastern Torpedo Company, a corporation of Ohio

No Drawing. Application December 26, 1950, Serial No. 202,812

9 Claims. (Cl. 252—8.55)

1. A well treating composition comprising an aqueous solution of hydrochloric acid of 2½% to 20% strength containing 1% to 10% hydrofluoric acid and a 0.6% to 3% buffering material selected from the group consisting of boric acid and water soluble salts of boric acid.

2,663,690

HIGH-TEMPERATURE SODIUM MYRISTATE GREASE CONTAINING N,N'DIPHENYL PARA-PHENYLENE DIAMINE

George W. Eckert, Glenham, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application February 16, 1951, Serial No. 211,446

4 Claims. (Cl. 252—42.1)

1. A ball and roller bearing grease capable of lubricating anti-friction bearings at high rotative speeds for long periods at a temperature of 300° F. containing as the essential constituents a major proportion of an oleaginous liquid lubricating base, about 15–25% by weight based on the grease of a sodium soap of a soap-forming fatty material containing at least 70% based on the fatty material of myristic acid, said soap thickening said lubricating base to a buttery grease-like consistency, and about 0.5–8% by weight based on the grease of N,N' diphenyl para-phenylene diamine.

2,663,691

GREASE CONTAINING DIPHENYL P-PHENYLENE DIAMINE AND A PHOSPHORUS ACID ESTER AND METHOD OF MAKING SAID GREASE

John P. Dilworth, Fishkill, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application February 16, 1951, Serial No. 211,447

12 Claims. (Cl. 252—42.1)

1. A lubricating grease composition comprising a lubricating oil, a metal soap of a fatty acid in grease forming proportion, a minor amount sufficient to impart thermal stability properties to the composition of N,N' diphenyl para-phenylene diamine added to the composition in solution in a minor amount of an oil-soluble phosphorus acid ester, the latter serving as a carrier and a dispersing agent for the N,N' diphenyl para-phenylene diamine.

2,663,692

MIXED INDICATOR COMPOSITION

Joseph V. Corso, Brooklyn, and Richard C. Ulmer, Bronxville, N. Y., assignors to E. F. Drew & Co., Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 2, 1949, Serial No. 113,898

5 Claims. (Cl. 252—408)

1. A composition for indicating color changes in titration consisting essentially of a mixture of ethyl orange, alphazurine A and fuchsin red, the ratio of alphazurine to fuchsin being about 3 to 1, dissolved in water in the amount of 3.8 to 4.7 grams per liter the ethyl orange being in an amount about equal to the sum of the amounts of the other dyes present, the color thereof being green and changing to gray-purple in the range of pH 4.3 to 3.8.

2,663,693

NAILABLE MATERIAL FROM NATURAL RUBBER OR BUTADIENE-STYRENE COPOLYMER, PLASTICIZER, CELLULOSE, AND ASBESTOS

Carl B. Hess, New York, N. Y., and Henry M. Richardson, Springfield, Mass., assignors to Brasco Manufacturing Company, Harvey, Ill., a corporation of Delaware

No Drawing. Application August 17, 1950, Serial No. 180,096

6 Claims. (Cl. 260—4)

1. A nailable material comprising 18–25% of a vulcanized rubber composition binder, said binder containing an elastomer selected from the group consisting of natural rubber and a butadiene-styrene co-polymer, said binder also containing a permanent plasticizer selected from the group consisting of coumarone-indene resins, coal tar oil with boiling range over 400° F., and an aromatic unsaturated sulfur-reactive petroleum hydrocarbon oil with boiling range over 600° F., said plasticizer being present in the ratio of 100 parts of elastomer to 30–50 parts of plasticizer; 40–55% of an asbestos friction material and 20–35% of a compressible cellulose fibrous filler whose particle size approximates that of sawdust, all percentages being by weight.

2,663,694

ALKYD MODIFIED SILOXANE COATING COMPOSITIONS

Ronald L. Millar, Chicago, Ill., assignor to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application September 1, 1949, Serial No. 113,675

6 Claims. (Cl. 260—22)

1. A coating composition particularly adapted to deposit baked films capable of enduring prolonged service at elevated temperatures without becoming discolored appreciably, said composition comprising a substantial amount of a vehicle composed essentially of an aromatic hydrocarbon solvent solution of a principal film-forming material, said principal film-forming material being a cobodied inter-reaction product of: (A) between 25 and 90 parts of a thermally-evanescent, substantially non-discoloring monocarboxylic-acid-modified alkyd having an acid number below about 50, said alkyd being the resinous reaction product of: (1) polycarboxylic acid which boils or sublimes above about 200° C.; (2) polyhydric alcohol selected from the group consisting of glycerol, pentaerythritol, trimethylol propane and trimethylol ethane; and (3) monocarboxylic acid selected from the group consisting of saturated aliphatic acids having from 6 to 10 carbon atoms and aryl and aralkyl acids having not more than 11 carbon atoms and free of non-benzenoid unsaturation, said monocarboxylic acid being present in an amount such that the total weight of monocarboxylic acid esters is between about ⅓ and ½ of the total weight of theoretical esters in the alkyd; and (B) between about 75 and 10 parts of a polysiloxanol, said polysiloxanol being characterized (1) by having its silicon atoms bonded together by Si—O—Si linkages, (2) by having the remaining valences of its said silicon atoms satisfied by methyl, phenyl and hydroxy radicals, (3) by having a total of between 1 and 1.7 methyl and phenyl radicals per silicon atom of which total between 10 and 90 per cent are phenyl radicals, (4) by having an hydroxyl content of between about 0.45% and 20% by weight of siloxanol solids, and (5) by being soluble in an aromatic hydrocarbon solvent; said film-forming material being produced by cobodying said alkyd and said polysiloxanol under reflux conditions with removal of water in an aromatic hydrocarbon solvent until a substantial increase in viscosity short of gellation has been secured.

2. A coating composition as claimed in claim 1 wherein said vehicle is essentially a xylene solution of said film-forming material; and wherein said cobodying under reflux conditions is carried out in xylene.

2,663,695

COATED CALCIUM CARBONATE PARTICLES

John W. Perloff and Larry Jacobson, Painesville, Ohio, assignors to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application September 12, 1951, Serial No. 246,336

16 Claims. (Cl. 260—23)

1. A composition of matter consisting essentially of particles of: (1) a vinyl resin selected from the group consisting of polyvinyl chloride, vinyl chloride-vinyl acetate copolymers, and vinyl chloride-vinylidene chloride copolymers; (2) a comminuted inorganic filler material selected from the group consisting of natural and precipitated calcium carbonates, the particles of said filler material being coated with a mixture of a chlorinated paraffin wax having a chemically combined chlorine content substantially within the range of 35%–70%, and a substance selected from the group consisting of rosin, and fatty acids and fatty acid esters having a saponification number substantially within the range of 150–200; and a liquid vehicle chosen from the group consisting of a plasticizer for said resin and a mixture of a plasticizer for said resin with a partial solvent for said resin.

2,663,696

TEXTILE PRINTING EMULSIONS COMPRISING THERMOPLASTIC RESIN LATICES DISPERSED IN SOLUTIONS OF THERMOSETTING RESINS IN ORGANIC SOLVENTS

Edward F. Armatys, New York, N. Y., assignor to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware

No Drawing. Application January 4, 1951, Serial No. 204,491

6 Claims. (Cl. 260—29.4)

1. A coloring composition for textile materials comprising pigment dispersed in an emulsion containing a discontinuous phase comprising an aqueous colloidal dispersion of a thermoplastic resinous material selected from the group consisting of a homopolymer of vinyl chloride, a copolymer of vinyl chloride and vinyl acetate, and a copolymer of vinylidene chloride and acrylonitrile, and a continuous phase comprising a thermosetting resinous binder selected from the group consisting of alcoholated melamine-formaldehyde resinous condensates and alkyd-modified melamine-formaldehyde resinous condensates in organic solvents which are substantially non-solvents for the resinous material of the aqueous phase, said emulsion containing a non-volatile liquid plasticizer for the resinous material of the discontinuous phase, the ratio of plasticizer to the resinous material of said discontinuous phase being within the range of from approximately 1 to approximately 2 parts by weight of plasticizer to 1 part by weight of said resinous material.

2,663,697

POLYMERS OF 3-METHYLENEPHTHALIDE AND PROCESS OF PREPARATION

Harry W. Coover, Jr., Joseph B. Dickey, and Newton H. Shearer, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 20, 1952, Serial No. 310,736

6 Claims. (Cl. 260—32.6)

4. A new composition of matter comprising a homopolymer of 3-methylenephthalide having a molecular weight of at least 10,000 and an amide selected from the group consisting of N,N-dimethylformamide and N,N-dimethylacetamide.

2,663,698

PROCESS FOR PRODUCING SYNTHETIC TANNINS BY DEHYDRATING AND SULFONATING A NOVOLAK RESIN IN A VACUUM

Eli Dee Compton, Greenwood, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 11, 1950, Serial No. 155,364

6 Claims. (Cl. 260—49)

1. A process for producing synthetic tannins which comprises dehydrating a phosphoric acid-catalyzed novolak resin of 1 molecular proportion of phenol and 0.65 to 0.75 molecular proportion of formaldehyde by heating the resin at a pressure between about 38 and 42 millimeters of mercury (absolute pressure) until the temperature of the resin is between 90 and 100° C., adding commercial sulfuric acid of 93% strength to the resin gradually and concurrently maintaining the reaction mass at a pressure between about 38 and 42 millimeters of mercury (absolute pressure) and also maintaining the temperature of the reaction mass between 90 and 100° C. until the resin contains from 0.3 to 0.35 mol of combined SO_3 per mol of phenol, the amount of acid added being 0.4 to 0.5 mols of sulfuric acid (calculated as 100% acid) for each mol of phenol, allowing the pressure surrounding the resin to rise to the prevailing atmospheric pressure and substantially concurrently adding between 40 and 150% by weight of water, based on the weight of the novolak resin, said water being at a temperature between 75 and 95° C., and then neutralizing the resulting mixture with an aqueous solution of an alkaline substance and an organic acid buffer to form a solution having a pH between about 3 and 4.7.

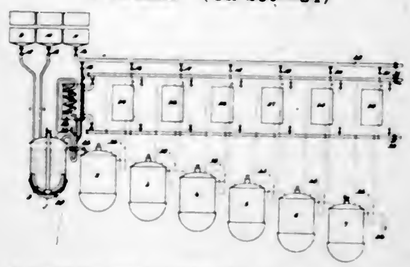
2,663,699

CONTINUOUS METHOD OF PREPARING NOVOLAKS AND DEVICES SUITABLE FOR SUCH METHODS

Herman Bloem and Marinus Stel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application March 4, 1950, Serial No. 147,624

9 Claims. (Cl. 260—54)



8. A continuous process for preparing novolaks of the phenol-formaldehyde condensation product type comprising the steps of continuously introducing into a first reaction vessel a phenol selected from the group consisting of monohydroxybenzene, cresol, xylenol and resorcinol, a catalyst, and formaldehyde in an amount less than that required to completely react the phenol to phenol-formaldehyde and sufficient to maintain a stationary reaction condition in said first vessel, continuously withdrawing from the first reaction vessel a stream equal in volume to the streams of the reaction components entering the first reaction vessel, continuously introducing into a second reaction vessel the stream being withdrawn from the first reaction vessel, introducing a stream of formaldehyde into said second vessel in an amount sufficient to continue the reaction of the phenol without gelatinizing the reaction mixture, and successively repeating the steps of continuously introducing reaction mixture, adding a quantity of formaldehyde to the reaction mixture to continue the reaction without gelatinization and withdrawing an amount equal in volume to that introduced in succeeding reaction vessels until the reaction is completed.

2,663,700

PURIFICATION OF SULFONATED ALKENYL AROMATIC RESINS

Harold H. Roth, Bay City, and Hugh B. Smith, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 1, 1951, Serial No. 259,482

5 Claims. (Cl. 260—79.3)

4. A method, which comprises extracting, from a granular alkenyl aromatic resin sulphonic acid, acidic inorganic impurities incident to formation of the same, by washing the granular resin sulphonic acid with at least one substantially anhydrous liquid of the group consisting of ethers, ketones, liquid sulphur dioxide and methylene chloride.

2,663,701

PROCESS FOR POLYMERIZING CERTAIN UNSATURATED COMPOUNDS IN AN AQUEOUS SYSTEM

Gezà S. Rónay, Oakland, and Jerome R. Vinograd, Berkeley, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application July 23, 1951, Serial No. 238,068

14 Claims. (Cl. 260—85.5)

1. In a process for polymerizing an ethylenically unsaturated organic compound having a molecular weight below 225 and a solubility in water varying from some solubility to not more than 18 parts per 100 parts of water at room temperature wherein the said compound is dissolved in an aqueous medium containing water and a water-soluble polymerization catalyst in an amount which is insufficient to form a separate organic layer and the mixture is maintained at a polymerizing temperature, the improvement which comprises after at least one-fourth of the monomer initially dissolved in the aqueous medium has been polymerized and in the presence of the formed polymer adding monomer over a period of time to the reaction mixture at a rate which is at least twice the initial rate of polymerization, said addition never being sufficient to cause the formation of a separate organic layer in the reaction mixture.

2,663,702

PROCESS FOR QUATERNARIZING POLYMERS OF N,N di-METHYL-p-AMINOSTYRENE

Edward L. Kropa, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 2, 1949, Serial No. 102,951

5 Claims. (Cl. 260—88.1)

1. A process for the preparation of a granular, water-insoluble, anion exchange resin active for the removal of anions from solution which comprises copolymerizing N,N-dimethyl-p-aminostyrene with a polymerizable organic material containing at least two ethylenic double bonds and no aliphatic conjugated carbon-to-carbon double bonds in the presence of a polymerization catalyst which is an azo compound and in the absence of air, curing the copolymer obtained by heating, granulating the cured copolymer, and treating the granulated cured copolymer with an alkylating agent in an amount sufficient to effect quaternarization of the tertiary amino groups in said copolymer, the molar ratio of said N,N-dimethyl-p-aminostyrene to said polymerizable organic material in said copolymer being from about 10:1 to about 1:1.

2,663,703

PURIFICATION OF STRAIGHT-CHAIN MONOHYDRIC ALCOHOLS

Robert A. Dinerstein, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application June 23, 1948, Serial No. 34,825

13 Claims. (Cl. 260—96.5)

1. In a process for separating a straight-chain monohydric alcohol having more than five carbon atoms in the molecule from a mixture comprised thereof with another urea-adduct-forming organic compound, other than an alcohol, the steps which comprise contacting said mixture with urea and a polyhydric alcohol, separating an adduct containing urea and said straight-chain monohydric alcohol, substantially free from said other organic compound, decomposing said adduct into urea and said straight-chain monohydric alcohol, and withdrawing said alcohol in purified form.

2,663,704

PROCESS AND COMPOSITION FOR PRODUCING IMPROVED VISCOSE

George C. Yehling, Jr., St. Louis, Mo., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 19, 1950, Serial No. 156,924

8 Claims. (Cl. 260—217)

4. A process for producing improved viscose which comprises forming alkali cellulose by steeping cellulose in 15 to 20% aqueous sodium hydroxide containing from about 0.01 to 0.1% of the sodium salt of ethylene diamine tetra acetic acid and from about 0.001 to 0.1% of the sodium salt of beta ethyl hexanol sulfate based on the weight of the steeping liquor, and then reacting the alkali cellulose with CS_2 to produce sodium cellulose xanthate and then dissolving the xanthate to produce viscose.

8. A composition for steeping cellulose in the manufacture of alkali cellulose comprising a 15 to 20% aqueous sodium hydroxide solution containing from about 0.01 to 0.1% of the sodium salt of ethylene diamine tetra-acetic acid and

from about 0.001 to 0.01% of the alkali metal salt of a higher aliphatic alcohol sulfate based on the weight of the steeping liquor.

2,663,705

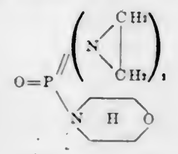
PHOSPHORIC ACID DERIVATIVES AND METHODS OF PREPARING THE SAME

Robert P. Parker, Somerville, Doris R. Seeger, Bound Brook, and Erwin Kuh, New Brunswick, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 25, 1951, Serial No. 238,582

1 Claim. (Cl. 260—247.5)

N - (3 - oxapentamethylene) - N',N'' - diethylenephosphoric triamide having the formula:



2,663,706

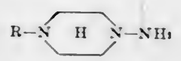
1-SUBSTITUTED-4-AMINOPIPERAZINES AND METHOD OF PREPARING THE SAME

Edward A. Conroy, Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 22, 1951, Serial No. 233,124

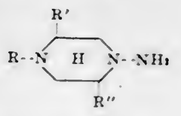
15 Claims. (Cl. 260—256.4)

8. A method of preparing compounds having the general formula:



in which R is a monocyclic aralkyl radical which comprises reacting a 1-monocyclic-aralkyl-piperazine with an alkali metal nitrite and a mineral acid to produce a 1-monocyclic-aralkyl-4-nitrosopiperazine, subsequently reducing said nitrosopiperazine with a metal and an acid and recovering said 4-aminopiperazine therefrom.

14. Compounds of the group consisting of those having the general formula:



in which R is a member of the group consisting of lower alkyl, monocyclic aralkyl, dicyclic aralkyl, monocyclic aryl, di-lower alkylcarbamyl, pyridyl, pyrimidyl and thiazolyl radicals in which the bond from the nitrogen in the piperazine ring to the heterocyclic ring is to a



group and R' and R'' are members of the group consisting of hydrogen and methyl radicals and acid addition salts thereof.

2,663,707

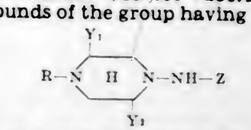
AMINO PIPERAZINES AND METHODS OF PREPARING THE SAME

Edward A. Conroy, Plainfield, and Robert P. Parker, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 22, 1951, Serial No. 233,126

9 Claims. (Cl. 260—256.4)

9. Compounds of the group having the formula:



in which R is a radical selected from the group consisting of lower alkyl, monocyclic aralkyl, dicyclic aralkyl, monocyclic aryl, lower carbalkoxy, di-lower-alkylcarbamyl, pyridyl and pyrimidyl radicals in which the bond from the nitrogen in the piperazine ring to the heterocyclic ring is to a



group; Y_1 and Y_2 are selected from the group consisting of hydrogen and methyl; Z is selected from the group consisting of a lower carbalkoxy, a carbamyl, a thiocarbamyl and an acyl radical.

2,663,708

4-HYDROXY-7,8-PHTHALOYL-CINNOLINES AND PROCESS OF PREPARING SAME

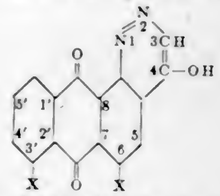
Friedrich Ebel, Mannheim-Feudenheim, Germany, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Rheinland-Pfalz, Bundesrepublik, Germany

No Drawing. Application July 16, 1952, Serial No. 299,221

Claims priority, application Germany August 28, 1951

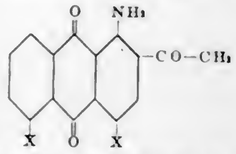
8 Claims. (Cl. 260—262)

1. A compound of the general formula



wherein one of the X's stands for a member of the class consisting of hydrogen, bromine, chlorine, hydroxy, nitro, amino and acylamino groups and the other X for hydrogen.

7. A process for the production of 4-hydroxy-7.8-phthaloylcinnolines which comprises treating a 1-amino-2-acetylanthraquinone of the general formula:



wherein one of the X's stands for a member of the class consisting of hydrogen, bromine, chlorine, nitro, amino and acylamino groups and the other X for hydrogen in a water-containing sulfuric acid medium with nitrous acid at a temperature of about 0–10° C.

2,663,709

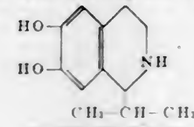
1-ALKYL-6,7-DIHYDROXY-1,2,3,4-TETRAHYDROISOQUINOLINE COMPOUNDS

Paul N. Craig, Pennsauken Township, Camden County, N. J., and Fred P. Nabenhauer, Philadelphia, Pa., assignors to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application August 15, 1950, Serial No. 179,646

6 Claims. (Cl. 260—286)

1. A 1,2,3,4-tetrahydroisoquinoline of the class consisting of a free base and its acid addition salts, said free base having the formula:



2,663,710

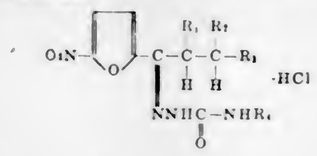
SERIES OF NITROFURAN COMPOUNDS COMPRISING 5-NITRO-2-FURYL 2-DIALKYLAMINOALKYL KETONE SEMICARBAZONE SALTS

Kenyon J. Hayes, Norwich, N. Y., assignor to Eaton Laboratories, Inc., Norwich, N. Y., a corporation of New York

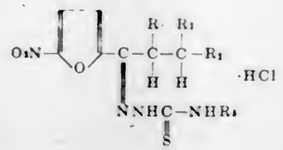
No Drawing. Application May 29, 1950, Serial No. 165,096

5 Claims. (Cl. 260—293.4)

1. A compound having chemotherapeutic activity and high water solubility, and represented by the formulae:



and



in which:

R_1 represents a member of the group consisting of hydrogen and lower alkyl

R_2 represents a member of the group consisting of hydrogen and lower alkyl

R_3 represents a member of the group consisting of di-lower alkylamino and piperidyl radicals

R_4 represents a member of the group consisting of hydrogen, lower alkyl, lower hydroxy alkyl and lower amino alkyl

R_5 represents a member of the group consisting of hydrogen and lower akyl.

2,663,711

PROCESS FOR THE PREPARATION OF PYRIDINE ALCOHOLS FROM PYRIDINE N-OXIDES

Orville H. Bullitt, Jr., Newtown Square, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 8, 1951, Serial No. 260,757

9 Claims. (Cl. 260—297)

1. In the preparation of pyridine alcohols, the step which comprises reacting, with a monocarboxylic acid anhydride of the formula $(RCO)_2O$ wherein R is selected from the class consisting of alkyl and phenyl groups, a pyridine N-oxide which has hydrogen on alkyl carbon directly attached to pyridine ring carbon and which has, on pyridine ring carbon, only hydrogen and alkyl groups.

2,663,712

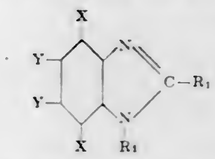
HYDROXY-BENZIMIDAZOLES AND METHOD FOR THEIR PREPARATION

Vsevolod Tulagin, Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 22, 1949, Serial No. 128,930

11 Claims. (Cl. 260—309.2)

1. An o-hydroxybenzimidazole having, in the form of its free base, the following formula:



wherein R_1 represents a member of the class consisting of H, alkyl and aryl groups, R_2 represents a member of the class consisting of H, alkyl and aralkyl groups, one X represents OH and the other H, and one Y represents H and the other Y represents a member of the group consisting of H, alkyl and aryl radicals.

2,663,713

PRODUCTION OF HYDANTOIN AND GLYCINE

Halbert C. White and Don V. Wysong, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application March 22, 1952, Serial No. 278,106

11 Claims. (Cl. 260—309.5)

1. A process for making hydantoin which comprises introducing one mole of formaldehyde into contact with an aqueous solution containing an ammonium carbonate and an alkali metal cyanide in proportions sufficient to provide the chemical equivalent of at least 2 moles of ammonia, at least 1.5 moles of carbonate and at least one mole of the alkali metal cyanide, at temperatures between −10° and 30° C., and at a rate such that not more than one mole of the formaldehyde is released to the reaction over a period of 4 hours, then heating the solution to a reaction temperature between 50° and 120° C. to complete the reaction and separating hydantoin from the reaction liquid.

11. In a process for making hydantoin, the steps which consist in introducing one mole of formaldehyde into contact with an aqueous solution containing an ammonium carbonate and an alkali metal cyanide in proportions sufficient to provide the chemical equivalent of at least 2 moles of ammonia, at least 1.5 moles of carbonate and at least one mole of the alkali metal cyanide, at temperatures between −10° and 30° C., and at a rate such that not more than one mole of the formaldehyde is released to the reaction over a period of 4 hours, then heating the solution to a reaction temperature between 50° and 120° C. to complete the reaction.

2,663,714

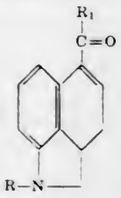
HYDROGENATED BENZ [CD] INDOLES

Edmund C. Kornfeld, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application September 24, 1951, Serial No. 248,103

7 Claims. (Cl. 260—319)

1. A compound represented by the formula



in which R represents a member of the group consisting of hydrogen, an acyl radical of a lower alkyl carboxylic acid and an acyl radical of a monocarbocyclic aromatic carboxylic acid, and R_1 represents a member of the group consisting of hydrogen and a lower alkyl radical.

2,663,715

PROCESS FOR THE "INDIRECT" OXIDATION-SPLITTING OF ACETYLENIC GAMMA-GLYCOLS

Abraham Brothman, Long Island City, N. Y.

No Drawing. Application November 6, 1948, Serial No. 58,804

8 Claims. (Cl. 260—340.2)

1. In the indirect oxidation-splitting of acetylenic gamma-glycols in which an acetylenic gamma-glycol is converted to the corresponding di-ester and subjected to an oxidation-splitting operation, the improvement comprising incorporating an oxidation catalyst selected from the group consisting of phosphoric acid, boric acid, and silicic acid in the di-ester of the gamma-glycol, introducing gaseous oxygen into the resulting mixture and thereby oxidizing the di-ester at the point of the acetylenic linkage and splitting the di-ester at said point, and mixing the resulting product with water to hydrolyze the resulting reaction product.

2,663,716

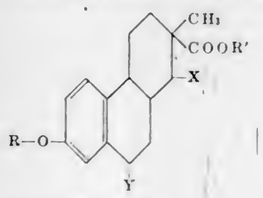
SYNTHESIS OF ESTRONE

William S. Johnson, Madison, Wis., and Robert George Christiansen, Rensselaer, N. Y., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

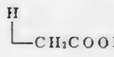
No Drawing. Application July 28, 1952, Serial No. 301,370

15 Claims. (Cl. 260—343.3)

8. The products represented by the formula:



where X is selected from the group consisting of =CHCOOR'' and



Y is selected from the group consisting of =O and



and where R, R', and R'' are lower alkyl groups.

15. A process which comprises heating a lower alkyl 6-p-(lower alkoxy) phenyl-3-carbo-lower alkoxy - 2 - keto - 3 - methylcyclohexane - 1-acetate with zinc and a lower alkyl bromoacetate, hydrolyzing the reaction mixture, heating the resulting mixture of the lactone of a 6-p-(lower alkoxy) phenyl - 3 - carbo - lower alkoxy - 2-carbo - lower alkoxymethyl - 2 - hydroxy - 3-methylcyclohexane - 1 - acetic acid and a di-lower alkyl 6-p-(lower alkoxy)-phenyl-3-carbo-lower alkoxy - 2 - hydroxy - 3 - methylcyclohexane-1,2-diacetate with formic acid and then with alcoholic alkali, converting the resulting lower alkyl 5-p-(lower alkoxy)-phenyl-2-carbo-lower alkoxy - 6 - carboxymethyl - 2 - methylcyclohexylidene-1-acetate to its acid chloride with the chloride of a strong acid, treating the acid chloride with a Friedel-Crafts type catalyst, and hydrolyzing the resultant complex to produce a lower alkyl 2-carbo-lower alkoxy-9-keto-7-lower alkoxy-2-methyl-1,2,3,4,4a,9,10,10a-octahydrophenanthrylidene-1-acetate.

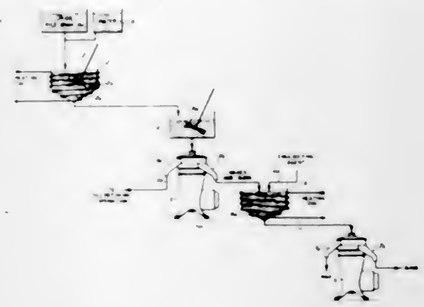
2,663,717

RICE BRAN OIL PROCESS

George J. Strezynski, Poughkeepsie, and Frank E. Lawatsch, Kingston, N. Y., assignors to The De Laval Separator Company, Poughkeepsie, N. Y.

Application December 18, 1951, Serial No. 262,236

9 Claims. (Cl. 260—412)



9. A process for treating rice bran oil containing gums and waxes, which comprises mixing the oil with water in an amount sufficient for hydrating the gums, heating the mixture to a temperature of about 140° F. and agitating the heated mixture, cooling the mixture slowly to a temperature of about 80° F., then registering the cooled mixture and promptly centrifuging it to separate it into an oil component and a sludge component, said sludge component containing substantially all of said waxes and gums as well as water and a minor proportion of the oil, reheating the separated sludge component, in the presence of an emulsifying agent, to a temperature of about 200° F., and recentrifuging the heated sludge component to separate it into a wax sub-component, containing most of the oil in the sludge, and a gum sub-component containing most of the water in the sludge.

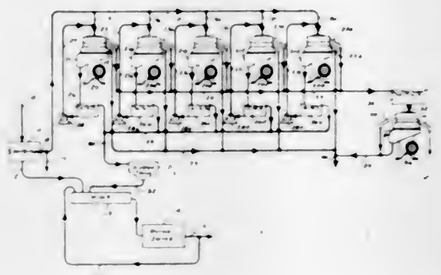
2,663,718

CLARIFICATION OF DISTILLERY SLOP AND THE LIKE

George J. Strezynski, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey

Application April 20, 1950, Serial No. 157,015

10 Claims. (Cl. 260—412.5)



1. In the clarification of distillery slop, and the like, containing water, oil and solids, the process which comprises heating the slop, subjecting a stream of the heated slop to a preliminary, coarse separating operation, to remove some of the coarse solids, squeezing said coarse solids to express some of the oil therefrom, continuously discharging said removed solids from the preliminary separating operation as sludge and separately discharging the remainder of the slop as an effluent containing relatively fine solids, dividing said effluent discharge into a plurality of separate similar streams, feeding each of said last streams to a separate centrifugal separating chamber and there separating it into three components, namely, an oil emulsion as the lightest component, an effluent as an intermediate component, and sludge as the heaviest component, accumulating an annulus of said sludge component in an outer zone of each chamber, separately discharging said components from the chambers, and continuously recirculating part of the sludge components discharged from said chambers to the separating chambers at regions located inwardly from their outer zones.

2,663,719

METHOD FOR THE CONTINUOUS ALKALI REFINING OF VEGETABLE OILS

Arthur U. Ayres, Chestnut Hill, Pa., assignor to The Sharples Corporation, a corporation of Delaware

Application April 18, 1950, Serial No. 156,665

8 Claims. (Cl. 260—425)

1. A process for the refining of a fatty oil containing free fatty acid which comprises combining a stream of said oil and a stream of aqueous caustic soda solution of at least 20° Be. in measured quantity such that the proportion of caustic soda added to said oil is substantially stoichiometrically equivalent to the free fatty acid originally present in said oil, maintaining said combined streams of oil and caustic in mixed state under temperature conditions between approximately 140° F. and 160° F. and also under conditions such that the contact time does not substantially exceed five seconds to form soap stock in non-agglomerated condition, and then immediately separating said oil from the soap stock formed as a result of said treatment.

2,663,720

PREPARATION OF ORGANIC ESTERS

Eugene F. Hill, Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 28, 1951, Serial No. 248,865

5 Claims. (Cl. 260—429)

1. A process which comprises interreacting an alcohol, a halide of a periodic group IV B metal and a mixture containing an alkali metal and at least 5% by weight of an alkaline earth metal.

2,663,721

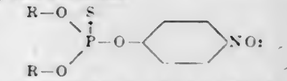
PREPARATION OF O,O-DIALKYL O-PARA NITROPHENYL THIOPHOSPHATE ESTERS

Michael N. Dvornikoff, St. Louis, and Evan J. Young, Valley Park, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 16, 1949, Serial No. 93,634

12 Claims. (Cl. 260—461)

1. In a process for the preparation of O,O-dialkyl O-p-nitrophenyl thiophosphate esters represented by the formula



wherein R represents an alkyl radical containing at least 1 and not more than 8 carbon atoms, the step comprising maintaining reaction temperatures within the range of about −10° C to +10° C while adding together in an alkyl alcoholic medium substantially equimolecular proportions each of (1) dialkoxythiophosphoryl chloride wherein each alkyl substituent contains at least 1 and not more than 8 carbon atoms, (2) p-nitrophenol, and (3) sodium alkylate containing at least 1 and not more than 8 carbon atoms, said sodium alkylate being added as a solution of sodium alkylate in alkyl alcohol.

2,663,722

METHOD OF PREPARING TETRAALKYL DITHIONOPYROPHOSPHATES

Arthur Dock Fon Toy, Park Forest, Ill., assignor to Victor Chemical Works, an Illinois corporation

No Drawing. Application March 24, 1950, Serial No. 151,817

17 Claims. (Cl. 260—461)

1. The method of preparing a tetraalkyl dithionopyrophosphate ester which comprises reacting a dialkyl chlorothionophosphate with water and a tertiary amine at a temperature below 80° C. but above 0° C. for a period of time sufficient to complete the reaction, and separating the oily product.

2,663,723

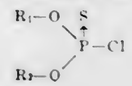
PROCESS FOR THE PREPARATION OF DIALKOXYTHIOPHOSPHORYL CHLORIDE

Marshall R. Bland, House Springs, and Evan J. Young, Valley Park, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 20, 1950, Serial No. 163,321

13 Claims. (Cl. 260—461)

1. In a process for the preparation of dialkoxythiophosphoryl chloride having the formula



wherein R_1 and R_2 represent alkyl radicals containing from 1 to 8 carbon atoms, the step comprising reacting an alkoxythiophosphoryl dichloride, wherein the alkyl substituent contains from 1 to 8 carbon atoms, with an alkyl alcohol solution of an alkali metal hydroxide, said alkyl alcohol containing from 1 to 8 carbon atoms.

2,663,724

NONCATALYTIC CONDENSATION OF AROMATIC COMPOUNDS WITH UNSATURATED ORGANIC COMPOUNDS

Herman Pines and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application March 30, 1950, Serial No. 152,992

9 Claims. (Cl. 260—465)

1. A process for the side chain alkylation of a substituted aromatic compound which comprises thermally and non-catalytically reacting at a condensation temperature of from about 150° to about 500° C. an unsaturated organic compound selected from the group consisting of ethylenic and acetylenic hydrocarbons with an aromatic compound having a substituted hydrocarbon side chain having at least one hydrogen atom on the alpha carbon atom and having attached to its beta carbon atom by a multiple bond an element selected from the group consisting of oxygen, nitrogen and sulfur, whereby to condense the aromatic compound with said unsaturated compound at said alpha carbon atom.

2,663,725

METHOD FOR THE PYROLYSIS OF DIACYL CYANIDES

Louis F. Reuter and Richard D. Smith, Elyria, Ohio, assignors to The B. F. Goodrich Company, a corporation of New York

Application May 7, 1952, Serial No. 286,496

6 Claims. (Cl. 260—465.8)

1. In the method for the preparation of monomeric 1,1-dicyano ethylene and its lower alkyl 2-substituted homologs by the vapor phase pyrolytic deacyloxyation of a diacyl cyanide at a temperature of 300 to 800° C., the step of rapidly condensing the hot pyrolysis vapors by bringing a stream of hot pyrolysis vapors into concurrent flow with a moving stream of a cold inert quench liquid, the weight ratio of quench liquid to pyrolysis product being at least 50 to 1 and the said quench liquid containing an inert liquid aromatic compound and being at a temperature not higher than room temperature.

2,663,726

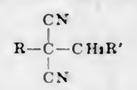
METHOD FOR THE PYROLYSIS OF DIACYL CYANIDES

Alan E. Ardis, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 7, 1952, Serial No. 286,598

7 Claims. (Cl. 260—465.8)

1. The method which comprises pyrolyzing a diacyl cyanide of the structure



wherein R is an acyloxy radical and R′ is a member of the class consisting of hydrogen and lower alkyl radicals, at a temperature of 400° C. to 750° C., and in the presence of at least 8 moles of an inert volatile organic diluent, said diluent being free of conjugated diene groups and homopolymerization accelerating groups for the pyrolysis product thereby to produce a pyrolysis product comprising a compound of the structure



wherein R′ has the same meaning as above.

2,663,727

DIASTEREOISOMERIC PROPANE DERIVATIVES AND PROCESS FOR THEIR MANUFACTURE

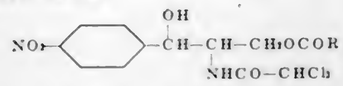
Paul Gailliot, Paris, and Jean Robert, Maisons Laffitte, France, assignors, by mesne assignments, to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application February 23, 1951, Serial No. 212,491

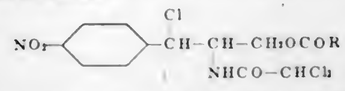
Claims priority, application France October 28, 1950

7 Claims. (Cl. 260—477)

1. Process comprising heating a threo compound of formula



with thionyl chloride under anhydrous conditions and in the presence of a solvent at a temperature of 80–100° C., thereby producing a threo compound of formula



wherein R is a radical of the class consisting of lower alkyl and phenyl groups.

2,663,728

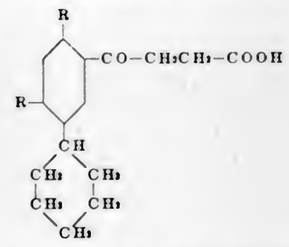
HYDROXY AND METHOXY CYCLOHEXYL-BENZOYLPROPIONIC ACIDS

Robert R. Burtner, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application June 30, 1951, Serial No. 234,675

5 Claims. (Cl. 260—520)

1. A cyclohexylbenzoylpropionic acid of the formula



wherein one R is a member of the group consisting of hydroxyl and methoxyl radicals and the other R is a member of the group consisting of hydrogen, hydroxyl and methoxyl radicals.

2,663,729

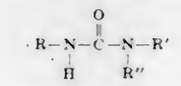
HALOARYLHYDROXYALKYL-UREAS

Norman E. Searle and Charles W. Todd, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 4, 1952, Serial No. 318,728

7 Claims. (Cl. 260—553)

1. A tri-substituted urea having a hydrogen atom directly attached to a urea nitrogen atom which is bonded to a nuclear carbon of a halogenoaryl radical, said urea being represented by the formula



wherein R is a halogenoaryl radical containing 1 to 2 nuclei, R′ is a hydroxyalkyl radical of 2 to 6 carbon atoms containing not more than 5 hydroxyl groups with a chain of a least 2 carbon atoms separating the urea nitrogen from the nearest hydroxyl group and R″ is a radical selected from the class consisting of alkyl radicals of 1 to 4 carbon atoms and hydroxyalkyl radicals of 2 to 6 carbon atoms containing not more than 5 hydroxyl groups with a chain of at least 2 carbon atoms separating the urea nitrogen from the nearest hydroxyl group.

2,663,730

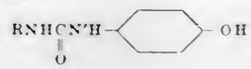
N-ALKYL-N′-(p-HYDROXYPHENYL) UREAS

Eugene F. Hill, Birmingham, and David O. De Pree, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 16, 1953, Serial No. 380,604

4 Claims. (Cl. 260—553)

1. As new compositions of matter, ureas having the structure



wherein R is an alkyl group containing from 5 to 12 carbon atoms inclusive.

2,663,731

PURIFICATION OF UREA

Walter Michelitsch, Ludwigshafen (Rhine-Oppau), Germany, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Rheinland-Pfalz, Bundesrepublik, Germany

No Drawing. Application March 26, 1951, Serial No. 217,687

Claims priority, application Germany April 6, 1950

5 Claims. (Cl. 260—555)

1. A process for purifying solid urea containing biuret as an impurity which comprises treating a solid biuret-containing urea with an aqueous solution of urea, thereby to dissolve out the biuret while leaving the urea substantially undissolved, and separating the purified solid urea from the solution.

2,663,732

(ALKYSULFONAMIDO) ARYLHYDRAZINES

Arnold Weissberger, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 29, 1950, Serial No. 159,139

8 Claims. (Cl. 260—556)

6. A compound selected from the group consisting of hydrazines represented by the formula

$$H_2NHN—D—NHSO_2R$$

wherein D represents a divalent mononuclear arylene group of the benzene series, and R represents an alkyl group, and water-soluble salts thereof.

2,663,733

PREPARATION OF NITRILOTRIPROPIONAMIDE

Lee A. Subluskey, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 6, 1951, Serial No. 214,197

4 Claims. (Cl. 260—561)

1. The process of preparing β,β′,β″-nitrilotripropionamide which comprises reacting acrylamide with ammonia in a molar ratio of from about 3:1 to about 3:19 at a temperature of from about 0° C. to about 100° C.

2,663,734

PREPARATION OF KETONE-DIARYLAMINE CONDENSATES

Ivan Mankowich, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application July 3, 1951, Serial No. 235,106

5 Claims. (Cl. 260—576)

1. In a method of preparing a composite product of condensation of an aliphatic ketone and a diarylamine, the improvement which consists in adding to the reaction mix a chemical promoter which is selected from the class consisting of chloral, bromal, o-chlorobenzaldehyde, diethyl acetal of iodo acetaldehyde, diethyl acetal of beta-chloro acetaldehyde, choral hydrate, o-bromo benzaldehyde, and 2,4-dimethyl 2-chloromethyl dioxolane, and heating the mix in the presence of said promoter.

2,663,735

PROCESS FOR PRODUCTION OF PHENOL AND KETONES BY DECOMPOSITION OF HYDROPEROXIDES

Leo J. Filar and Milton A. Taves, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 30, 1949, Serial No. 136,162

11 Claims. (Cl. 260—593)

1. The process of producing a phenol and an aliphatic ketone by decomposition of an α,α-dialkylarylmethyl hydroperoxide which comprises adding said hydroperoxide to a homogeneous reaction medium comprising acetone and concentrated sulfuric acid, the concentration of said acid in said medium being between about 0.05 and about 10% by weight and any water present being in an amount less than that required to render the reaction medium heterogeneous.

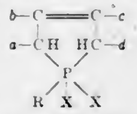
2,663,736

PREPARATION OF SUBSTITUTED PHOSPHACYCLOPENTENE DIHALIDES

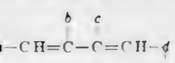
William B. McCormack, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 7, 1951, Serial No. 240,807
8 Claims. (Cl. 260—607)

1. A process for preparing a substituted phosphacyclopentene dihalide having the formula:



in which *a*, *b*, c and *d* represent members of the class consisting of hydrogen, alkyl, alkenyl, aryl, aralkyl, alkoxy, chlorine and bromine and tetramethylene groups which together with two adjacent carbon atoms in the heterocyclic ring form a cycloaliphatic ring, no more than a total of 6 carbon atoms being present in *a*, *b*, c and *d* in the form of aliphatic substituents and no more than 3 aromatic rings being present, in which R represents a member of the group consisting of alkyl, aryl, alkaryl, aralkyl, alkoxyaryl, haloaryl and haloalkyl radicals, and in which X represents a member of the group consisting of chlorine and bromine, which comprises reacting at a temperature between 0° and 100° C. a conjugated diene having the formula:



in which *a*, *b*, c and *d* have the significance described above, no more than a total of 6 carbon atoms being present in *a*, *b*, c and *d* in the form of aliphatic substituents and no more than 3 aromatic rings being present, substituents on the terminal carbon atoms of the butadiene structure being in the trans configuration, with a monosubstituted phosphorus dihalide having the formula RPX_2 in which R and X have the significance described above.

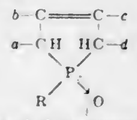
2,663,737

SUBSTITUTED PHOSPHACYCLOPENTENE OXIDES AND PROCESS OF PREPARING THEM

William B. McCormack, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 7, 1951, Serial No. 240,808
18 Claims. (Cl. 260—607)

1. A substituted phosphacyclopentene oxide having the formula:



in which *a*, *b*, c, and *d* represent members of the class consisting of hydrogen, alkyl, alkenyl, aryl, aralkyl, alkoxy, chlorine and bromine and tetramethylene groups which together with two adjacent carbon atoms in the heterocyclic ring form a cycloaliphatic ring, no more than a total of 6 carbon atoms being present in *a*, *b*, c and *d* in the form of aliphatic substituents and no more than 3 aromatic rings being present, in which R represents a member of the group consisting of alkyl, aryl, alkaryl, aralkyl, alkoxyaryl, haloaryl and haloalkyl radicals.

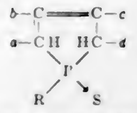
2,663,738

SUBSTITUTED PHOSPHACYCLOPENTENE SULFIDES AND PROCESS OF PREPARING THEM

William B. McCormack, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 7, 1951, Serial No. 240,809
6 Claims. (Cl. 260—607)

1. A substituted phosphacyclopentene sulfide having the formula:



in which *a*, *b*, c, and *d* represent members of the class consisting of hydrogen and alkyl radicals, no more than a total of 6 carbon atoms being present in *a*, *b*, c and *d*, and in which R represents an aryl radical.

2,663,739

SUBSTITUTED PHOSPHACYCLOPENTANE OXIDES AND PROCESS OF PREPARING THEM

William B. McCormack, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 7, 1951, Serial No. 240,810
12 Claims. (Cl. 260—607)

1. A substituted phosphacyclopentane oxide having the formula

in which *a*, *b*, c and *d* represent members of the class consisting of hydrogen, alkyl, aryl, alkaryl and aralkyl groups and divalent tetramethylene groups which together with two adjacent carbon atoms in the heterocyclic ring form a cycloaliphatic ring, no more than a total of 6 aliphatic carbon atoms and no more than 3 aromatic rings being present, and in which R represents a member of the group consisting of alkyl, aryl, alkaryl, aralkyl and alkoxyaryl radicals.

2,663,740

OXIDATION OF AROMATIC HYDROCARBONS

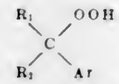
George M. Calhoun, Evanston, Ill., and John E. Reese, St. Simons Island, Ga., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 5, 1952, Serial No. 275,012
17 Claims. (Cl. 260—610)

1. The process of oxidizing an alkyl-substituted aromatic organic compound to a tertiary organic hydroperoxide which comprises passing, with intimate contact, an oxygen-containing gas through the aromatic organic compound, in the liquid phase, at a temperature between 100° C. and 130° C. under a pressure of from about 30 p. s. i. to about 500 p. s. i., in the presence of an aqueous medium selected from the group consisting of liquid water and aqueous alkali, the ratio of the aqueous medium to the aromatic organic compound being between 1:50 and 1:3 by volume, and the aromatic organic compound and the tertiary organic hydroperoxide having, respectively, the structural formulae



and



in which R_1 and R_2 represent alkyl groups and Ar represents a substituent selected from the group consisting of the aryl and alkaryl groups.

2,663,741

PROPENYL-GUAETHOL AND PROCESS FOR MAKING SAME

Stephen P. Joffre, Cedar Grove, N. J., assignor to Shulton, Inc., Clifton, N. J., a corporation of New Jersey

No Drawing. Application November 4, 1950, Serial No. 194,189
1 Claim. (Cl. 260—613)

A compound derived from eugenol ethyl ether by isomerization and demethylation and having the probable formula of 1-ethoxy-2-hydroxy-4-propenyl-benzene, occurring, in its pure form, in white shiny rectangular crystals from alcohol, with a melting point of 86.5 to 87.5° C., being readily soluble in alcohol, fixed vegetable oils, and propylene glycol, but slightly soluble in water, and imparting to foods and beverages a taste which is a blend of heliotrope, vanilla and violet.

2,663,742

PROCESS FOR PRODUCTION OF METHYLAL

Ludo K. Frevel and John William Hedelund, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application May 22, 1948, Serial No. 28,736
8 Claims. (Cl. 260—615)

1. A process for making methylal which comprises simultaneously passing one molecular equivalent of oxygen and at least 12 mols of vaporized methanol into contact with an oxidation catalyst at a reaction temperature between 350° C. and 500° C. and, during feed of the vapors into contact with the catalyst, also introducing a directing agent of the class consisting of halogens and hydrogen halides into the mixture of reaction vapors and catalyst at an average rate corresponding to from 0.01 to 0.2 molecular equivalent of said directing agent per mol of the methanol.

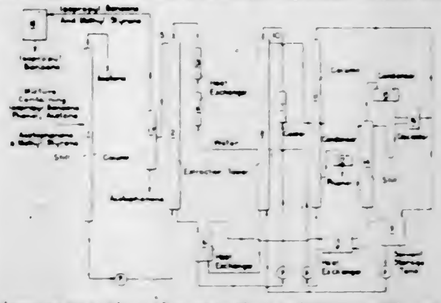
2,663,743

MANUFACTURE OF PHENOL

Thomas Bewley, Epsom, and Frederick John Wilkins, Epsom Downs, England, assignors to Hercules Powder Company, a corporation of Delaware

Application April 8, 1949, Serial No. 86,258
Claims priority, application Great Britain April 20, 1948
12 Claims. (Cl. 260—621)

5. In the manufacture of phenol by the oxidation of isopropyl benzene into isopropyl benzene hydroperoxide and the decomposition of said hydroperoxide in its solution in unchanged isopropyl benzene to form phenol, the step of recovering the phenol from said solution containing in addition acetone and methyl styrene which comprises extracting the reaction mixture with water at temperatures between 50° and 100° C. and recovering the phenol from the aqueous extract by contact with an organic solvent which is substantially immiscible with water and a solvent for phenol, and subsequent distillation.

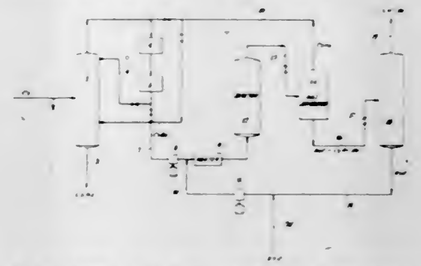


2,663,744

CATALYTIC HYDRATION OF OLEFINS

Sigmund J. Lukasiewicz and William I. Denton, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application November 14, 1949, Serial No. 127,168
6 Claims. (Cl. 260—641)



1. A process for the catalytic hydration of olefins which comprises preconditioning a porous adsorptive hydration catalyst composed of inorganic oxide selected from the class consisting of alumina, silica, zirconia and thoria by treating the same with a fluid preconditioning agent consisting essentially of water at temperature and pressure for catalytic hydration of olefins within the ranges hereinafter recited, replacing said agent by a mixture of olefin and water and continuing to contact such mixture with the preconditioned catalyst at catalytic hydration conditions of temperature from about 250° F. to about 700° F. and pressure from about 375 to about 6,000 pounds per square inch.

2,663,745

PROCESS FOR IMPROVING ALCOHOL QUALITY

Samuel W. Wilson, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 13, 1950, Serial No. 200,687
9 Claims. (Cl. 260—643)

1. A process for improving the odor characteristics of a water-soluble alcohol contaminated

by high-boiling hydrocarbons and sulfur compounds which make the alcohol malodorous and which is prepared by hydration of a mono-olefin, which comprises intimately contacting the contaminated malodorous alcohol with finely-divided solid glass particles in the absence of other purifying agents at a space velocity in the range of 0.5 to 60 volumes of the alcohol per volume of the glass particles per hour, whereby the alcohol is rendered substantially less malodorous.

2,663,746

DEHYDROGENATION OF A NAPHTHENIC HYDROCARBON CONTAINING A GEMINAL CARBON ATOM

Herman Pines and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application April 28, 1950, Serial No. 158,913

11 Claims. (Cl. 260—668)

5. A process for preparing 1,2,4-trimethylbenzene which comprises catalytically dehydrogenating 1,1,3-trimethylcyclohexane in the presence of a platinum-containing catalyst and an alkyl halide to produce 1,2,4-trimethylbenzene and recovering said 1,2,4-trimethylbenzene.

2,663,747

AQUEOUS COATING COMPOSITIONS FROM CHLORINATED EMULSIFIER-STABILIZED LATEX

Petrus Ten Have, Wijk Maastricht, Netherlands, assignor to Rubber-Stichting, Delft, Netherlands

No Drawing. Application May 19, 1950, Serial No. 163,084

Claims priority, application Netherlands May 31, 1949

8 Claims. (Cl. 260—735)

7. A coating composition consisting substantially of from about 25 to 45 per cent by weight of a chlorinated rubber, having a chlorine content within the range of from about 50 to 60 per cent by weight, from about 10 to 35 per cent by weight, based on the weight of the chlorinated rubber, of a plasticizer which is miscible with the rubber chloride and exerts a gelling action thereon, a small amount of a compatible emulsifier and a vehicle of water; the rubber chloride in said composition being substantially free from oxygen, being substantially insoluble in organic solvents and resulting from the chlorination of an aqueous dispersion of an unmasticated rubber containing acid in a concentration of at least about 1 normal and an emulsifier stabilizing it against acid coagulation followed by recovery of the finely-divided chlorinated rubber from the resulting chlorinated dispersion.

ELECTRICAL

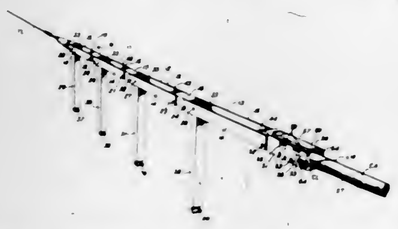
2,663,748

SWIVEL CONNECTOR

James A. Carr, Maplewood, Frederic V. Haskell, Gladstone, Stanford M. Sutton, Morristown, and Orville L. Walter, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 6, 1950, Serial No. 199,492

3 Claims. (Cl. 254—134.3)



1. An antitwisting device to be interposed between the end of a tow line and the draft end of a prelashed cable assembly, said assembly including a sheathed multiconductor cable, a supporting strand and a longitudinally extending wire lashed thereabout, comprising a plurality of links hingedly secured together in tandem, each of said links comprising a pair of spaced apart parallel members and having downwardly depending arms pivotedly supported therebetween adjacent one end thereof, each of said arms having a spring connected thereto for normally maintaining said arms in their extended positions, said arms arranged, when meeting an obstruction, to move upwardly against the tension of the springs and nest in the link members, means on the forward end of the device for securing a tow line thereto, and adjustable clamping means on the rear end of the device for securing the sheathed cable, the supporting strand and the lashing wire.

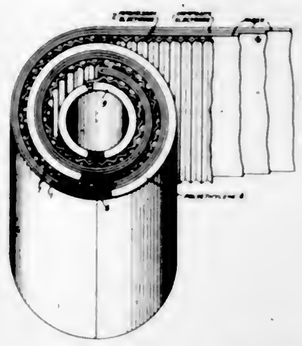
2,663,749

PRIMARY CELL

Arthur J. Warner, Glen Ridge, and André R. Gobat, North Caldwell, N. J., assignors to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware

Application August 29, 1951, Serial No. 244,136

14 Claims. (Cl. 136—100)



1. A primary cell assembly comprising a series arrangement of cells each including a cathode and an anode separated by a sheet of porous electrical insulating material, the anode of each cell, except one end cell, being connected in series with the cathode of the next succeeding cell, whereby the anode of one end cell and the cathode of the other end cell are unconnected to comprise terminals for said series, and cell separating material disposed along one side of said series of cells, said series of cells and separating material being rolled into a coil with one terminal at the center of the coil and the other at the periphery thereof.

2,663,750

FLAT CELL ELECTRIC BATTERY

Robert Paillet, Paris, France, assignor to Société Anonyme dite: Societe des Piles Wonder, Saint-Ouen (Seine), France

Application June 27, 1952, Serial No. 295,954

Claims priority, application France April 7, 1952

2 Claims. (Cl. 136—111)



1. In a dry cell battery construction containing at least one cellular unit of a zinc anode, electrolyte, depolarizer and carbon cathode, in which each cell in a plurality of cells may be separately tested by contacting the sides of the successive zinc anodes, that arrangement comprising an outer insulating retaining frame having two parallel upwardly extending flange portions defining a ring-shaped trough therebetween, a downwardly extending flange under said frame adapted for receiving the upper part of the adjacent cell in fitting engagement therewith, a zinc anode having the shape of an inverted cup and having its peripheral flange received in the ring shaped trough in fitting engagement with the external upwardly extending flange portion of the frame, a layer of electrolyte between said zinc anode and the internal upwardly extending flange portion of the frame, a depolarizer in said frame and a carbon cathode layer under the frame and the depolarizer within the downwardly extending flange of the frame.

2,663,751

WATER REPLENISHING DEVICE FOR STORAGE BATTERIES

Samuel F. Bashara, Houston, Tex.

Application November 18, 1950, Serial No. 196,404

4 Claims. (Cl. 136—162)



1. A combined acid trap and water replenishing device for storage batteries comprising a container having a bottom outlet a plug formed of resilient material closing said outlet and extending beyond the bottom of the container for insertion in an opening in a storage battery to close said opening, said plug having an exterior annular groove adapted to receive the marginal portion of the container surrounding said bottom outlet, resilient means in said groove forming a seal between said marginal portion of the container and said plug, said plug having a passageway therethrough in communication with the interior of the container and battery, and vent means in the container remote from said passageway and closing said container against inflow of air into the container, said vent means being operable by an increase in pressure within said container above atmospheric pressure to open the container to outflow of gas therefrom.

2,663,752

SHIELDED ELECTRICAL CONDUCTOR WITH GROUNDING STRAND

Anthony J. Wier, Cranford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 10, 1950, Serial No. 148,832

2 Claims. (Cl. 174—36)



1. A cable comprising a conductor, a layer of insulating material on said conductor, and a braided shield surrounding said insulating layer, said shield consisting of a plurality of metallic strands, one of said braid strands consisting of a single strand, and the remaining braid strands each comprising a plurality of strands each of smaller cross section than said single strand.

2,663,753

COUPLING MEANS FOR COAXIAL ELECTRICAL LINES

James R. Bird, Chagrin Falls, Ohio

Application May 21, 1948, Serial No. 28,428

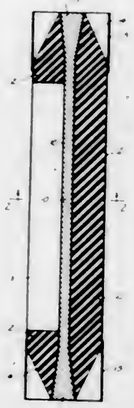
23 Claims. (Cl. 174—88)



1. In a co-axial line coupling structure or the like, tubular conductors disposable in end to end relation, sleeves embracing the conductors, means interlocking the sleeves and permitting relative rotation thereof, the sleeves and conductors having interfitting screw threads for retaining the sleeves on the conductors and for drawing the conductors together, said screw threads permitting facile removal of the sleeves from the conductors, a circular guide ring carried by one of the sleeves and projecting axially beyond the end of the conductor carrying said one sleeve, said guide ring being formed with a substantially

cylindrical inwardly directed face of less diameter than the root diameter of the threads on the conductor carrying said one sleeve, and means on the other conductor providing a substantially cylindrical outwardly directed face of less diameter than the root diameter of the threads on such other conductor, said outward face being receivable telescopically within the guide ring to pilot the conductors into aligned relation as they are drawn together.

2,663,754
SLOTTED DIELECTRIC COAXIAL LINE AND PROCESS FOR MAKING SAME
Joseph F. Bianco, Medford, Mass.
Application July 18, 1950, Serial No. 174,542
5 Claims. (Cl. 174—102)
(Granted under Title 35, U. S. Code (1952), sec. 266)



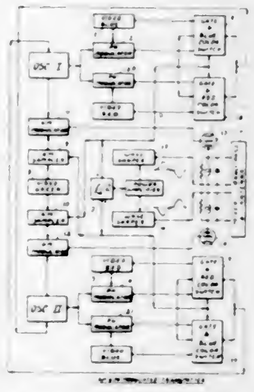
1. A coaxial cable comprising a central conductor, reverse tapered ends on said conductor, a plating of a highly conductive metal on said conductor and ends and a dielectric tightly molded about said conductor and ends to the furthest extremities thereof, said dielectric being electroplated on its outer surface and having a narrow longitudinal slot substantially deep enough to reach the conductor.

2,663,755
SHEATHED ELECTRIC CONDUCTOR
John V. McBride, Lebanon, Conn., assignor to The Plastic Wire & Cable Corporation, Jewett City, Conn., a corporation of Connecticut
Application September 28, 1949, Serial No. 118,260
4 Claims. (Cl. 174—117)



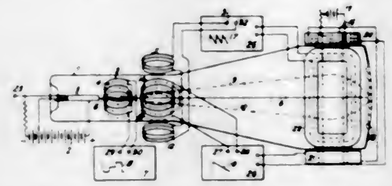
3. An electric cable of indefinite length comprising parallel conductors, an extruded, flexible insulating sheath of homogeneous vinyl chloride enclosing each conductor, an extruded, flexible insulating envelope of homogeneous vinyl chloride encircling and enclosing each of said sheaths and being slidable thereover, said envelope being free of any interconnection with said sheaths and providing a large mass of insulation extending between said sheaths for the full width of the sheathed conductors, whereby to facilitate sliding of the envelope on the sheaths incident to the flexing of the cable in the plane of said conductors, and a stress resisting member of fiber glass enclosed within said envelope and extending longitudinally therethrough.

2,663,756
SYNCHRONIZATION IN COLOR TELEVISION
Meguer V. Kalfaian, Los Angeles, Calif.
Application July 11, 1951, Serial No. 236,262
4 Claims. (Cl. 178—5.2)



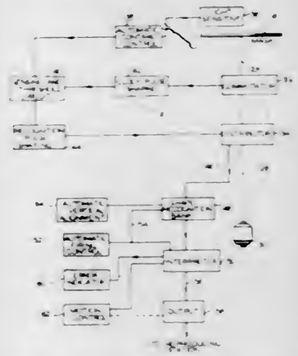
1. In color television where amplitude modulation of the carrier wave is assigned to convey video signals of the first primary color continuously; phase modulation of the carrier to convey video signals of second and third primary colors sequentially, and where synchronization of the projected positions of elemental image components at the receiving end with that of the transmitting end is established by way of transmitting discrete signals distinguishable one from the other for the determination of time positions of the horizontal and vertical retracings, the system of transmitting discrete signals for the attainment of said synchronization which comprises: means to produce carrier oscillation in first and second channels, means to apply the output oscillations of the first and second channels upon each other's input oscillations periodically at a time-dividing frequency rate essential to convey video signals of any of the three primary colors, in a sense that, the output oscillation of each is capable of shifting the other's input oscillation to an in-phase relation periodically in sequence by force, means to shift the phase angle of the carrier oscillation periodically in the first and second channels in first or forward direction by video signals of the second primary color by representative angles limited to x, in those periodic intervals when one is shifting the other's phase angle, means to shift the phase angle of the carrier oscillation periodically in sequence with the second primary color in the said first and second channels in second or backward direction by video signals of the third primary color by representative angles limited to x, in the preceding manner, means to modulate the amplitude of the carrier oscillations in the first and second channels in alternate sequence at said time-dividing frequency rate by video signals of the first primary color, means to produce a first pulse at the time period when the horizontal scanning is to fly back for retrace, means to produce a second pulse when the vertical scanning is to fly back for retrace; namely for even-line field scanning, means to produce a third pulse when both the horizontal and vertical scannings are to fly back simultaneously for retrace; namely for odd-line scanning, means to shift the carrier phase by the first pulse in the first and second channels by a maximum angle X in the said first or forward direction in alternate sequence at the time-dividing frequency rate, means to shift the carrier phase by the second pulse in the first and second channels by a maximum angle X in the second or backward direction in alternate sequence in time phase with the last said modulation, means to shift the carrier phase by the third pulse in the first and second channels by a maximum angle X in the said first and second or forward and backward directions sequentially in alternate intervals of the time-dividing frequency, and means to combine those sequentially periodic portions of the output oscillations during which they proceed to shift the phase angle of the other's input oscillation, whereby in each time-division of the carrier or periodic thereof the carrier amplitude contains video information of the first primary color; the phase angle to a limit x in the first or forward direction contains video information of the second primary color; the phase angle to a limit x in the second or backward direction contains video information of the third primary color; the maximum phase angle X in the first or forward direction contains horizontal synchronizing information; the maximum phase angle X in the second or backward direction contains vertical synchronizing information; namely for even-line field scanning; and sequential maximum phase angles X in the first and second or forward and backward directions contain simultaneous horizontal and vertical synchronizing informations.

2,663,757
TELEVISION APPARATUS
Harry R. Lubcke, Los Angeles, Calif., assignor to General Teleradio, Inc., Los Angeles, Calif., a corporation of California
Application March 6, 1950, Serial No. 147,835
6 Claims. (Cl. 178—5.4)



1. A sequential color television reproducing system comprising: a cathode ray tube, means for producing an electron stream therein, means for deflecting said stream, a truncated ridged multiplanar screen in the path of said electron stream, transducers attached to the planes of said screen, the characteristics of said transducers being alike on all planes having the same inclination but being different on planes of different inclination, a dynamical electron lens for deflecting said stream located near said screen relative to the location of said prior deflecting means, means for producing electrical energy variations in synchronism with television scanning, means for activating said prior means and said dynamical lens therewith, means for producing electrical energy variations in synchronism with changes in color components to be reproduced, means for forming and combining plural series of electrical pulses in synchronism therewith, a capacitor, means to apply said plural series of pulses to said capacitor for the variation of the electrical charge thereof, means to apply said variations in charge to said prior deflecting means for the deflection of said electron stream, said lens being constituted when thus activated to cause said stream to impact said screen successively at closely adjacent areas that lie in different planes.

2,663,758
APPARATUS FOR READING
David H. Shepard, Falls Church, Va., assignor to Intelligent Machines Research Corporation, Arlington, Va., a corporation of Maryland
Application March 1, 1951, Serial No. 213,338
16 Claims. (Cl. 178—17)

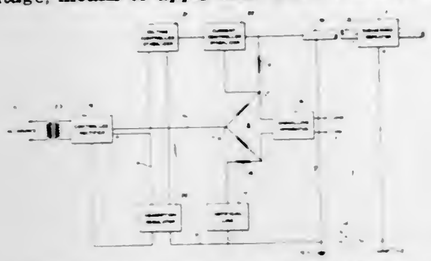


1. In reading apparatus, means to scan relatively continuously moving conventional intelligence-bearing characters to be read, the scanning means comprising means for successively scanning portions of each character to be read during movement of the character, means comprising detecting means for producing signals whenever the scanning means senses predetermined portions of a character, and means comprising interpreter means responsive to signals produced by the detecting means following scanning of a complete character to provide an output signal indicative of the character read.

2,663,759
REGULATED POWER SUPPLY
Philip H. Wells, Chatham, N. J., Alfred A. Steinmetz, Yonkers, N. Y., and William D. Cannon, Metuchen, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application May 31, 1951, Serial No. 229,194
16 Claims. (Cl. 178—70)

1. A direct current power supply for supplying a substantially constant predetermined current to a submerged repeater interposed in a submarine cable circuit having a ground return and being subjected to varying earth potentials, comprising a source of alternating current power, a full-wave grid-controlled thyratron rectifier cir-

cuit coupled to said source of alternating current power and having a plurality of thyratron tubes arranged to deliver a direct voltage, circuit means for applying said direct voltage in negative polarity to said submarine cable circuit, a first impedance network arranged in the form of a normally unbalanced bridge circuit for applying said direct voltage in positive polarity to said ground return, said bridge circuit having in one branch thereof the discharge path of a first electron discharge tube, means to apply a triggering signal to the grids of said thyratron tubes, means responsive to the degree of balance of said bridge circuit to vary the phase of said triggering signal thereby to vary the value of said direct voltage, a second impedance network comprising the discharge path of a second electron discharge tube and being coupled between said circuit means and said ground return, means to derive from said second impedance network a first control potential proportional to the value of said direct voltage, means to apply said first control potential to the control grid of said first electron discharge tube in a sense to vary the impedance thereof and the degree of balance of said bridge circuit proportional to variations in said direct voltage thereby to stabilize said direct voltage at a first value thereof, a resistive element interposed in said submarine cable circuit, means to derive from said resistive element a second control potential, means to amplify said second control potential and to apply said second control potential to the control grid of said second electron discharge tube to vary the impedance thereof proportional to variations in direct current flow through said resistive element, said variations in impedance of said second electron discharge tube producing variations in magnitude of said first control potential proportional to said variations in direct current through said resistive element thereby to stabilize said direct voltage at a second value thereof at which the direct current flow through said submarine cable circuit is substantially equal to said predetermined value thereof.



2,663,760
CONTROL DEVICE FOR USE IN AUTOMATIC SIGNALING SYSTEMS

Robert Bertold Buchner, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application October 8, 1949, Serial No. 120,248
Claims priority, application Netherlands October 12, 1948
3 Claims. (Cl. 179—18)

1. In an automatic signalling system; the combination comprising a selector switch provided with a series of marking contacts, corresponding outlets and a wiper for said contacts, a resistance connected to each marking contact, means for applying a potential to each marking contact through the related resistance which is lower for a corresponding busy outlet than for a corresponding free outlet, a testing device coupled to said selector switch and operative upon contacting an outlet corresponding to a desired number to produce at its output a decrease potential value, and a control device for the numerical setting of said switch, said control device comprising first and second electron discharge tubes each having a cathode, a control electrode and an anode, respective output circuits connected to the anodes of the first and second tubes, the control electrode of the first tube being connected to a first point in the output circuit of the second tube, means for connecting said wiper to the cathode of said first tube to apply the potential of an engaged contact thereto, circuit means intercoupling said first and second tubes whereby in the condition when the second tube is conductive the first tube remains non-conduutive when a busy outlet is contacted and is rendered conductive to a limited extent when a free outlet is contacted so that this outlet is not marked busy, and in the condition when the second tube is non-conductive, current in the first tube increases to an extent at which the potential of the marking contact is increased to a value at least equal to that of the marking contacts of the busy outlets, means connecting the control electrode of the second tube to a second point of potential connected to the output of the testing device and to a third point in the output circuit of the first tube, whereby the control electrode of the second tube assumes the higher of the potentials of said second and third points, said testing device applying to said second pont a potential having a value at which in the condition when said testing defice is non-operative and said first tube is non-conductive, the second tube remains conductive, and having a value at which in the condition when said testing device is operative, the first tube is rendered conductive to a limited extent and the second tube is rendered non-conductive, means to actuate said wiper to move over said contacts, and means operated by the full conduction of the first tube to arrest the movement of said wiper.

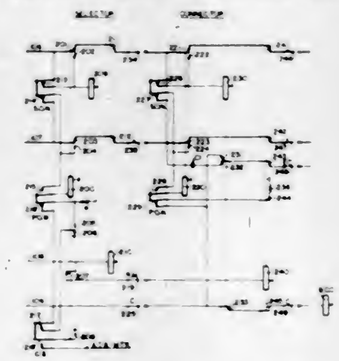


2,663,761
CENTRALIZED CONTROL CIRCUITS FOR FLAT TYPE SWITCHES

John H. Voss, Rochester, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application March 8, 1950, Serial No. 148,284
22 Claims. (Cl. 179—18)

1. In a telephone system, a first switch having a primary and a secondary movement, a plurality of groups of second switches accessible to said first switch, each of said second switches having a primary and a secondary movement, a plurality of groups of lines accessible to each of said second switches, a control unit associated with said first switch, means for seizing and releasing said control unit, transmitting means in said control unit for transmitting impulses to said first switch, a first drive magnet in said first switch for operating said first switch in its primary movement to select a group of said second switches, means whereby said first drive magnet is operated responsive to impulses transmitted by said transmitting means, a first shift magnet in said first switch for changing over the operation of said first switch from its primary to its secondary movement, circuit means in said control unit for operating said first shift magnet, relay means for operating said circuit means, means whereby said relay means is operated responsive to the termination of said impulse transmission by said transmitting means and after said primary movement, testing means in said control unit, control means in said control unit for reoperating said first drive magnet to operate said first switch in its secondary movement in a testing operation, means whereby said testing means is successively connected to said second switches in said selected group in said testing operation, means whereby said control means is operated responsive to the operation of said circuit means, means in the first idle one of said second switches for operating said testing means, means whereby said means for operating said testing means is effective responsive to the connection of said testing means to said first idle second switch, means for disabling said control means to stop the testing operation and the secondary movement of said first switch to seize said idle second switch, means whereby said disabling means is operated responsive to the operation of said testing means, a first release magnet in said first switch, release control means in said control unit for operating said first release magnet, means whereby said release control means is operated responsive to the seizure of said control unit, switch connecting means for connecting said control unit to said seized idle second switch, means whereby said switch connecting means is completed responsive to the operation of said first release magnet and said seizure of said second switch, a second drive magnet in said idle seized second switch for operating said second switch in its primary movement to select a group of said lines, means whereby said second drive magnet is operated responsive to subsequent impulses transmitted by a reoperation of said transmitting means, a second shift magnet in said seized second switch for changing over the operation of said second switch from its primary to its secondary movement, other circuit means in said control unit for operating said second shift magnet, means whereby said other circuit means is operated responsive to another operation of said relay means, means whereby said relay means is again operated by said transmitting means after said subsequent impulse transmission and after said second switch primary movement, said second drive magnet again operated in response to a further reoperation of said transmitting means to operate said second switch in its secondary movement, means whereby a particular line of said selected group of lines is selected in response to said secondary movement, a second release magnet in said seized second switch, means including said release control means for operating said second release magnet, means whereby said means for operating said second release magnet is completed in response to the seizure of said second switch by said first switch, line connecting means for connecting said second switch to said selected line, means whereby said line connecting means is completed in response to the operation of said second release magnet and to said seizure of said line, means for restoring said first and second release magnets to release said first and second switches, and means whereby said restoring means is responsive to the release of said control unit.



2,663,762
PREENERGIZING CIRCUITS FOR LINE RELAY AND VERTICAL MAGNET OF AUTOMATIC SWITCHES

Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Original application June 24, 1947, Serial No. 756,581. Divided and this application September 7, 1950, Serial No. 183,587
4 Claims. (Cl. 179—18)



1. In an automatic switch having incoming connections over which impulses are received, a line relay, means whereby said line relay is operated responsive to said received impulses, an operating magnet, an operating circuit for said magnet, means for controlling said operating circuit, means whereby said last means is operated by each deenergization of said line relay for operating said magnet, a pre-energizing circuit for said line relay, means for controlling said line relay pre-energizing circuit, means whereby said last means is operated by each said magnet energization for completing said line relay pre-energizing circuit, a pre-energizing circuit for said magnet, relay means for completing said pre-energizing circuit for said magnet, means for operating said relay means, and means whereby said last means is controlled by said operation of said magnet.

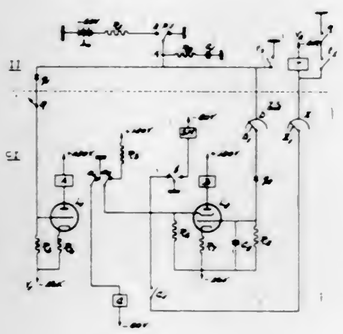
2,663,763
TIME-LIMITING CIRCUIT ARRANGEMENT

Mattheus Jacobus Schmitz and Robert Bertold Buchner, Hilversum, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application December 6, 1949, Serial No. 131,439
2 Claims. (Cl. 179—27)

1. Apparatus responsive to first and second switching operations in a condition wherein said

first switching operation is succeeded by said second switching operation at an instant beyond a predetermined time interval for initiating a third switching operation, said apparatus comprising a plurality of subordinate circuits, each provided with a chargeable device including a capacitance, means to effect charging and discharging of said capacitance in accordance with said first and second switching operations respectively, whereby the magnitude of charge depends on the interval between said operations, a relay for actuating said third switching operation and a first rectifier; and a common supervisory circuit for said subordinate circuits comprising first and second electron discharge tubes with control electrodes therefor, means to connect the chargeable device through said first rectifier to the control electrode of said first tube and to a first point of constant potential having a value at which said rectifier is rendered conductive only when said capacitance attains a charge corresponding to said predetermined time interval whereby the conductivity of said first tube and the current flow therethrough varies with the conductivity of said first rectifier, means operated by current flow variations in said first tube and connected to said second tube for varying the conductive condition and current flow therethrough accordingly, a rotary switch having first and second rotatable brushes with respective first and second



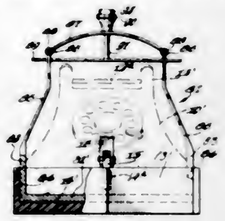
switch banks therefor, each switch bank having a plurality of contacts corresponding to said plurality of subordinate circuits, the contacts of said first bank being respectively connected to said chargeable devices of said subordinate circuits, the contacts of said second bank being respectively coupled through the relays of said subordinate circuits to second points of predetermined potential, electromagnetic means operatively coupled to said switch for rotating said brushes across contacts of respective switch banks, means rendered operative by the current flow of said second tube established when said rectifier is rendered conductive for energizing said electromagnetic means, means connected to said first brush and connected to the control electrode of said second tube for changing the current flow therethrough to de-energize said electromagnetic means to stop said brush rotation when said first brush touches a contact connected to a particular subordinate circuit whose rectifier has been rendered conductive, and means rendered operative by said changed current flow in said second tube to connect said second brush to a point of potential having a value relative to said second point to effect activation of the relay of said particular circuit to initiate the third switching operation.

2,663,764

TELEPHONE HOLDING UNIT

Frank Grooms Holmes, Philadelphia, Pa.

Application November 15, 1950, Serial No. 195,756
6 Claims. (Cl. 179—150)



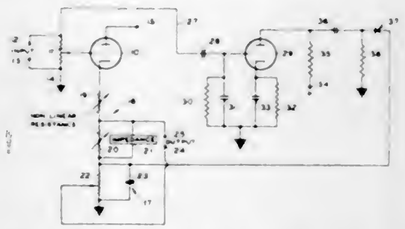
1. A device of the class described adapted for use with telephones including a pedestal, a cradle on said pedestal, and a handset adapted to be held in said cradle; comprising a base member; means whereby said pedestal may be secured in said base member; extensible means secured in said base member; and handset holding means located at the end of said extensible means, and means engaged about said pedestal for opening and closing the telephone circuit while leaving the handset supported in said handset holding means in an operative position, said means including a U-shaped member engaged about said pedestal and having flexible arm portions extended upward along the sides of said pedestal, an actuator strip having its ends pivotally attached to the top ends of said arm portions and urged by said arm portions into an upwardly arched or a downwardly arched position, and an actuator member beneath said actuator strip and connected with said actuator strip to be urged thereby into a circuit closing position or to be held thereby in a circuit opening position.

2,663,765

NOISE SUPPRESSION DEVICE

Deslonde R. de Boisblanc, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application March 7, 1949, Serial No. 80,086
23 Claims. (Cl. 179—171)



1. In a noise suppression circuit, a band pass filter comprising a non-linear resistance, a second non-linear resistance connected in series with said first resistance, said resistances having similar voltage-resistance characteristics, and an impedance for by-passing alternating voltages appearing across one of said resistances, means for applying a voltage representative of signal amplitude across both of said resistances, and means for withdrawing an output appearing across one of said resistances whereby the pass band of said filter varies in accordance with signal amplitude responsive to changes in the ohmic value of said resistances resulting from changes in signal amplitude.

2,663,766

TRANSISTOR AMPLIFIER WITH CONJUGATE INPUT AND OUTPUT CIRCUITS

Larned A. Meacham, New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 28, 1950, Serial No. 170,727
4 Claims. (Cl. 179—171)



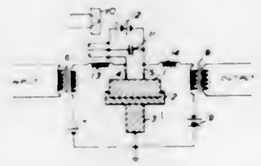
1. A translating network which comprises a transistor having a semiconductive body, an emitter electrode, a collector electrode and a base electrode making contact with said body, a voltage divider impedance element interconnecting the base electrode with the emitter electrode and having a tap connected to a point thereof intermediate its ends, the collector electrode being connected to said tap, an input circuit including a source connected in shunt with said element, and an output circuit including a load connected in series with the collector electrode.

2,663,767

STABILIZED CRYSTAL TRIODE SYSTEM

Alec Harley Reeves and Charles de Boismaison White, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application May 23, 1951, Serial No. 227,798
Claims priority, application Great Britain May 31, 1950
4 Claims. (Cl. 179—171)



1. An electric circuit for translating signals, comprising a crystal triode having a base electrode and emitter electrode and a collector electrode, separate biassing means between each of the emitter and collector electrodes and said base electrode, input means for applying the signals to be amplified to said emitter electrode, output means for deriving amplified signals from said collector electrode, a source of short stabilizing pulses, stabilizing means for applying said short stabilizing pulses between said collector and emitter electrodes, and means for suppressing said stabilizing pulses and blocking the application thereof to said base electrode, said last mentioned means comprising a first choke coil connected between said emitter electrode and the input means, and a second choke coil connected between the said collector electrode and the output means.

2,663,768

SAFETY LOCKING DEVICE FOR MANUALLY OPERATED CIRCUIT BREAKERS

Carl P. Sorensen, Chicago, Ill.

Application January 9, 1952, Serial No. 265,647
12 Claims. (Cl. 200—42)

5. The combination with a circuit interrupter having an oscillatable operating handle movable back and forth in a single plane to "on" and "off" positions and having a casing provided with a rectangular slot in which the handle is movable, of a guard removably mountable in said slot in either of two opposite positions for contacting an end portion of said slot and the upper inclined surface of said handle, said handle and said guard having aligned openings with each other therethrough, of a shoulder pin removably placeable through said aligned openings arranged in said handle and said guard, of a locking bar, said locking bar having an opening therethrough, of an adjustable securing means arranged adjacent the opening in said locking bar, said securing means for locking said bar to said shoulder pin, of a second opening within said bar, and a locking means arranged in said second opening within said bar for preventing adjustment of said securing means to unlock said bar upon said member.

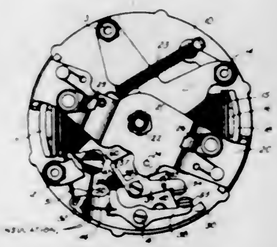


2,663,769

SWITCH MECHANISM FOR AUTOMOBILE CLOCKS

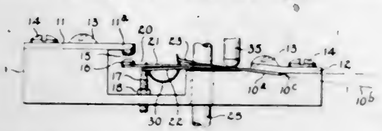
Fred R. Schweigler, Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware

Application May 28, 1949, Serial No. 95,959
2 Claims. (Cl. 200—67)



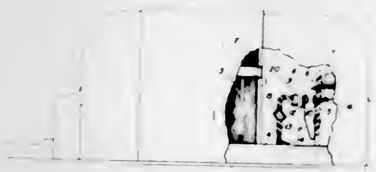
1. In a switch mechanism, two switch members extending generally parallel to each other, means for pivotally supporting said members for rotation about different axes, the pivot for each member being located at a point intermediate the ends thereof, means for rotating the first said member on its pivot in one direction, whereby one end of said first member engages the corresponding end of the second member and rotates said second member, interposed insulating means to prevent conductive contact between the said ends of said members, a spring acting on said second member to continue the rotation thereof after it has been rotated a predetermined amount by said first member, a switch contact at the other end of said second member brought into engagement with a switch contact at the other end of said first member responsive to said continued rotation, and means for rotating said first member in the opposite direction to thereby rotate said second member by power applied through said contacts, said spring being effective thereafter to prolong the rotation of said second member to separate said contacts.

2,663,770
ELECTRIC SNAP SWITCH
Irvin W. Cox, West Allis, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application January 10, 1951, Serial No. 205,292
3 Claims. (Cl. 200—67)



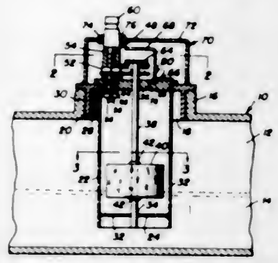
1. In a single pole, single throw, snap switch, in combination, a unitary stamping comprising three functionally independent, normally coplanar, flat reed-like members, the inner of which members functions as actuator and compression member, the middle of which members functions as the flipper and tension member, and the outer of which members functions as the independently movable contact carrier, all of said members being so proportioned in width and length as to provide when clamped at the proper common angle the desired values for the restoring force on the actuator and for the residual contact pressure on the movable contact carrier; a U-shaped spring member held in compression between said actuator and flipper members, said spring member having lost motion means and affording impact movement only of the movable contact carrier when said switch is moved to circuit interrupting position; and means providing for the intersection of the plane of said stamping at a point in the stationary contact structure of said switch sufficiently far above its contact surface to assure the desired residual contact pressure.

2,663,771
CENTRIFUGAL DEVICE
Raymond J. Hartz, Cuyahoga Falls, Ohio, assignor to Jack & Heintz, Inc., Cleveland, Ohio, a corporation of Delaware
Application March 26, 1952, Serial No. 278,731
5 Claims. (Cl. 200—80)



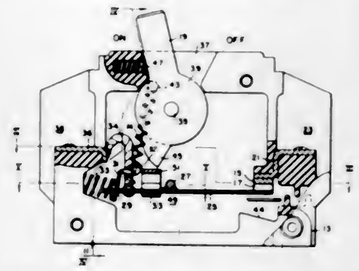
1. In a machine having a rotatable shaft, control means for controlling the rotation of said shaft, a centrifugally responsive actuating device for actuating said control means and including a flexible normally cup-shaped member including a centrally apertured ring secured to said shaft and a bowed portion free of said shaft to permit linear movement of said bowed portion axially of said shaft, the bowed portion of said flexible member having a centrifugally responsive weighted portion, means carried by said bowed portion, normally in engagement with said control means when said shaft is at rest and in relatively slow speed rotation, for engaging said control means in response to centrifugal outward movement of said weighted portion and consequent axial linear movement of said bowed portion, in response to a predetermined speed of rotation of said shaft, to control the speed of rotation of said shaft.

2,663,772
FLOAT SWITCH
Robert J. Cochrane, Redlands, Calif., assignor of fifty per cent to Thomas E. Wolfrom, Redlands, Calif.
Application February 14, 1952, Serial No. 271,589
4 Claims. (Cl. 200—84)



2. A brake fluid level indicator comprising a switch mechanism for insertion in a hydraulic master brake cylinder reservoir in lieu of a filler opening closure nut, said switch including a fixed contact and a movable contact, said movable contact being secured to the upper end of a float rod, said switch including a tubular housing having upper and lower cover plates, said float rod being slidably journaled through said cover plates, a float carried by said float rod being mounted within said tubular housing, fluid entrance holes in said housing, said contacts being positioned above said upper cover and sealed within a closure secured to said upper cover, said closure being in the form of a hollow nut whereby the indicator may be easily rotated by wrench means.

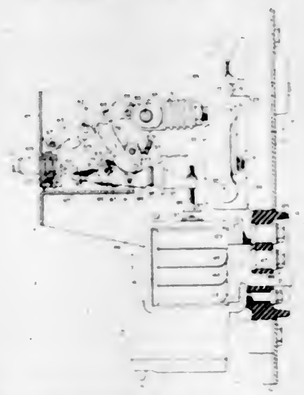
2,663,773
CIRCUIT BREAKER
Joseph A. Drobney, Duquesne, and Paul W. Brown, Beaver Falls, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 7, 1952, Serial No. 270,401
11 Claims. (Cl. 200—88)



1. A circuit breaker comprising stationary and movable contacts, a thermally responsive switch member mounting said movable contact on one end thereof for movement into and out of engagement with said stationary contact, an over-

center spring cooperating with the other end of said thermally responsive switch member normally biasing said switch member to closed position, thermal bending of said switch member moving said overcenter spring to an overcenter position wherein said overcenter spring moves said switch member to open position to open said contacts with a snap action, a manual operating member movable to an open and to a closed position, and a joint between said overcenter spring and said thermally responsive switch member operable by said manual member to move said overcenter spring to another overcenter position wherein said spring moves said thermally responsive switch member to closed position to close said contacts with a snap action.

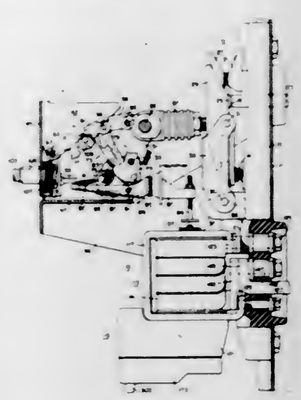
2,663,774
ELECTROMAGNETIC TRIP CIRCUIT BREAKER
John B. MacNeill and Harry J. Lingal, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1950, Serial No. 175,373
19 Claims. (Cl. 200—108)



1. In an electromagnetic trip device including a trip rod movable to effect a tripping operation, said trip device comprising an energizing winding, an armature operable upon energization of said winding to move said trip rod, a time-delay element for retarding tripping movement of said trip rod having a chamber, a normally open valve for admitting fluid to said chamber at a predetermined rate to effect a relatively long time delay in the tripping movement of said trip rod, and a second armature operable by energization of said winding in response to certain abnormal circuit conditions to actuate said valve and increase the rate of admission of fluid to said chamber to effect a relatively short time delay in the tripping movement of said trip rod.

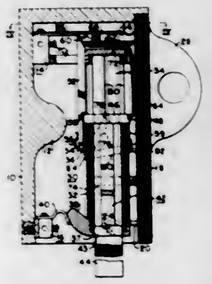
2,663,775
CIRCUIT BREAKER
John B. MacNeill, Pittsburgh, William H. Stuellein, East McKeesport, and Merl E. Horn, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1950, Serial No. 175,374
14 Claims. (Cl. 200—108)

1. In an electromagnetic trip device comprising a trip rod, an energizing winding, an armature operable upon energization of said winding in response to overload currents to actuate said trip rod, a time-delay element for retarding tripping operation of said trip rod, a housing defining a chamber for said time-delay element and a separate liquid storage reservoir, a plurality of passages communicating said reservoir and said



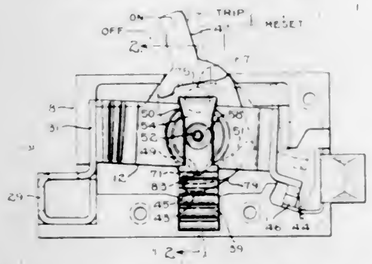
chamber, valve means controlling said passages to admit liquid from said reservoir to said chamber at different rates to effect time delays of different duration in the operation of said trip rod and electromagnetic means for actuating said valve means.

2,663,776
PROTECTIVE DEVICE
Arthur T. Stratton, Murrysville, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 18, 1949, Serial No. 110,964
17 Claims. (Cl. 200—116)



1. In an electric protective device, a housing provided with an open side, a door of suitable rigid material for closing said open side, a circuit interrupter mounted in the housing and including a pair of separable contacts, means pivotally mounting said door for movement relative to said housing and said circuit interrupter, means in said housing responsive to a predetermined condition of the circuit for effecting separation of said contacts to interrupt the circuit associated with said interrupter when said door is closed, and a lost motion connection between said door and said contacts permitting separation of said contacts without movement of said door but responsive to pivotal opening movement of the door with respect to the housing and interrupter for reclosing said contacts.

2,663,777
CIRCUIT BREAKER
Irvin W. Cox, West Allis, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application March 12, 1952, Serial No. 276,168
16 Claims. (Cl. 200—116)



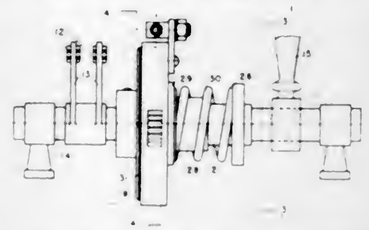
1. A circuit breaker comprising, an electrically conductive flexibly supported expansible power element having one end adapted to be connected in an electric circuit, a movable contact carried by the other end of said power element, a fixed contact adapted to be connected in an electric circuit and engageable by said movable contact to close a circuit through said power element, a spring having one end fixed and the other end operatively connected to said power element to urge said contacts open, a keeper on said spring intermediate the ends thereof and dividing said spring into a compression part and a tension part, a cam-follower operatively associated with said power element, and a control lever having a plurality of camming surfaces engageable with said keeper and said cam-follower to momentarily stretch said tension part while compressing said compression part, said keeper being withdrawn from said camming surfaces upon expansion of said power element to close said contacts.

2,663,778
ELECTRIC CIRCUIT PROTECTOR
William D. Matthews, Atlanta, and Thomas E. Curtis, Hampton, Ga., assignors to Southern States Equipment Corporation, a corporation of Georgia
Application February 14, 1951, Serial No. 210,810
10 Claims. (Cl. 200—126)



1. In a multiple conductor electric circuit, a multiplicity of fuses each comprising a dropout fuseholder and a fuselink therein, a grounding mechanism adjacent to and coordinated with the said fuses, which mechanism includes a multiplicity of grounding members interconnected and simultaneously movable, a single spring biasing all the grounding members towards grounding position, a single adjustable holding mechanism resisting the bias of said spring, a multiplicity of interconnected trip members each operable by the dropout motion of its respective fuseholder, and members connecting the trip members with the holding mechanism, whereby the force of the dropout motion of any of the fuseholders will directly cause the release of the single holding mechanism so that the spring moves all grounding members to grounding position.

2,663,779
PROTECTING DEVICE FOR CIRCUIT BREAKERS
Albert Viboud and André Gras, Grenoble, France, assignors to Etablissements Merlin & Gerin, Societe Anonyme, Grenoble, France, a corporation of France
Application May 15, 1952, Serial No. 287,834
Claims priority, application France May 31, 1951
12 Claims. (Cl. 200—153)



1. Protecting device for circuit breakers with at least one contact pair having a stationary contact and a movable contact, a shaft carrying said movable contact, and actuating means for closing and opening said contacts; said device including a unidirectionally selective impeding mechanism having a movement resisting member mounted at said circuit breaker independently of said shaft, a member rigidly secured at said shaft to be movable therewith and adapted for unidirectional engagement with said resisting member thereby to take up turning moments caused on coerced movement of said circuit breaker as a whole through inertia of the movable contact and produced by, and arriving at said impeding mechanism from, movement of the movable contact, and resist any unintentional closing movement of the contacts; said impeding mechanism further including release mechanism associated with said actuating means and operable thereby for disengaging said shaft member from said resisting member and thus to release the shaft for movement by turning moments produced at the shaft by intentional actuation of the actuating means for operation of the circuit breaker in either sense, opening and closing the contacts.

2,663,780
COMBINED STARTER AND IGNITION SWITCH
Ralph W. Hept, Dayton, Ohio, and Nelson H. Weber, Bronson, Mich., assignors to Kingston Products Corporation, Indianapolis, Ind., a corporation of Indiana
Application February 15, 1951, Serial No. 211,064
3 Claims. (Cl. 200—166)

2. In a combined starter and ignition switch apparatus having a housing, a carrier subassembly in said housing, comprising, a generally cylindrical carrier member having bridging contact means on one end, a coiled torsion spring around said carrier member, and a retainer ring embracing said spring and including spaced apart tongues engaging opposite ends of said carrier member in firm assembly therewith, said spring having one end extending radially inwardly for engagement with said carrier member and having its other end locked behind one of said tongues to preload said spring, said housing having an arcuate recess providing a pair of circumferentially spaced shoulders adjacent said



carrier sub-assembly, said other end of said spring extending radially outwardly into said recess and said retainer ring having a tongue extending radially outwardly into said recess in spaced relation to said other end of said spring, whereby rotation of said carrier member in one direction in said housing will be resiliently resisted upon engagement of said spring with one of said shoulders.

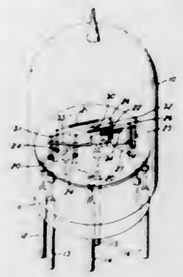
2,663,781
PRESSURE PICKUP ELEMENT
Harwood F. Rundell, Jackson, Mich., assignor to Aeroquip Corporation, Jackson, Mich., a corporation of Michigan
Application August 11, 1949, Serial No. 109,703
3 Claims. (Cl. 201—63)



1. In an electrical resistance type pressure responsive device, a hollow body part adapted for the introduction of fluid pressure into its interior, said body part including a wall portion sensitive to variations in the fluid pressure and a contiguous concentric wall portion non-responsive to the pressure changes, a high electric resistance filament disposed upon said pressure sensitive wall portion and adapted to respond to fluctuations in the fluid pressure, and another high electric resistance filament disposed upon said concentric wall portion and adapted to be responsive to changes in temperature on the latter, the construction and arrangement being such that the said filaments are balanced as to temperature changes independently of the pressure changes.

2,663,782
CIRCUIT REGULATING DEVICE
Norman Insley, Nanuet, N. Y., and Theodore L. Tanner, Metuchen, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 12, 1950, Serial No. 184,476
3 Claims. (Cl. 201—63)

1. An equalizer for an electrical transmission line comprising an envelope containing an inert gas at a pressure lower than atmospheric, and having a pair of input and a pair of output terminals; a positive resistance-temperature coefficient conductor comprising two equal, elongated sections of coiled filament supported in spaced parallel relation in the envelope, and connected serially between the input terminals; and a body of high negative temperature coefficient material having leads extending oppositely therefrom,



supported by said leads in the plane of said coiled wire sections, equidistant from said sections with the leads thereof parallel to said sections, and connected between the output terminals.

2,663,783
WRINKLE TYPE REPLACEABLE CAP FOR WELDING ELECTRODES
William G. Fetter, Arthur F. Wood, and Edman F. Holt, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application June 1, 1951, Serial No. 229,378
3 Claims. (Cl. 219—4)

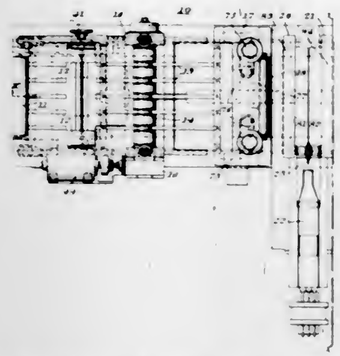


1. In a welding electrode including a hollow welding tip including a shank portion, said shank having a determined taper and an angulated outer lead end surface, a cap structure comprising a welding face and a leading edge adapted to be placed adjacent to and cooperating with said outer lead end surface of said shank so as to positively direct and axially align said cap for entry within said shank, said cap having a skirt portion having a taper adapted to mate with said taper of said shank depending therefrom and including a series of annular rings having resilient interconnections among themselves formed on both the inner and outer surfaces of the wall of said skirt, said rings thus being both adjustably fitted by entry into said shank and resilient so as to afford a releasable tight grip between said cap and said shank while at the same time avoiding seizure between the surfaces thereof.

2,663,784
MEANS AND METHOD OF MAKING METAL STRIP
Lorenz Iversen, Pittsburgh, Pa., assignor to Mesta Machine Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 23, 1950, Serial No. 186,456
14 Claims. (Cl. 219—10)

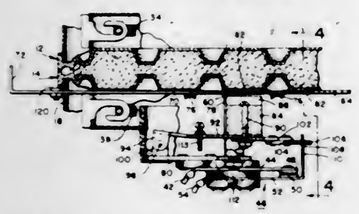
1. The method of making a continuous length of steel strip from a plurality of end-to-end strips comprising the steps of trimming the ends of a pair of steel strips, overlapping the trimmed ends by not more than one thirty-second of an inch,

clamping the strip ends close to and on both sides of the whole length of the overlap, and passing welding current through the overlapped



ends progressively across the width of the clamped strips while simultaneously rolling down the welded joint as it fuses flush with the adjacent unwelded strip ends.

2,663,785
WAFFLE IRON
Maurice H. Graham, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application December 11, 1948, Serial No. 64,841
13 Claims. (Cl. 219—19)



5. A cooking device having a relatively thin grid, one surface of which is adapted for direct contact with the surface of the material to be cooked, heating means for the grid, said grid having a control area on its opposite surface out of direct engagement with the heating means and a thermomagnetic timer for controlling the energization of the heating means, said timer including a plate of thermomagnetic material supported in direct heat conducting engagement against the control area of said opposite surface of the grid and thereby directly responsive to the temperature of the grid and material and only indirectly to the temperature of the heating means, said thermomagnetic member controlling the operation of the timer to deenergize the heating means and terminate the cooking operation in response to change in permeability of the member when the surface of the material to be cooked reaches a predetermined temperature.

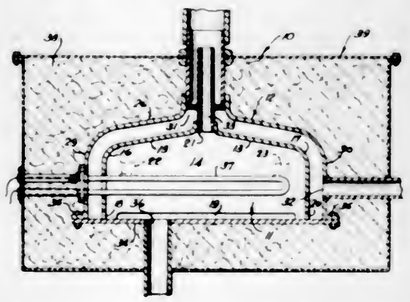
2,663,786
TIMER APPARATUS
Douglas F. Illian, Oak Park, and Norman T. Terp, Chicago, Ill., assignors to General Electric Company, a corporation of New York
Application October 14, 1952, Serial No. 314,674
22 Claims. (Cl. 219—20)

1. In combination, a control switch having an off position and a normal on position and a timer on position, a movable element having a normal position and an operated position, a single manually operable member for selectively operating said switch into any one of its positions independently of the position of said element and at the will of the operator, a spring biasing said element into its normal position, means responsive to operation of said switch from its off position into its timer on position for moving said element against the bias of said spring from its normal position into its operated position, latch mechanism for restraining said element in its operated



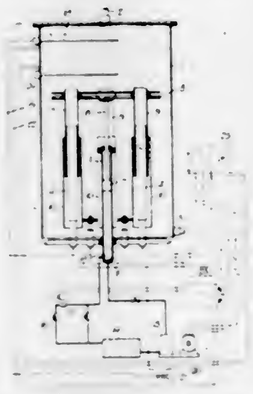
position, said spring returning said element from its operated position back into its normal position in response to the release of said latch mechanism, means responsive to movement of said element from its operated position back into its normal position for operating said switch into its off position only in the event said switch occupies its timer on position, clock mechanism, indicator mechanism controlled by said clock mechanism for releasing said latch mechanism at a set clock time, and manually operable means for selectively setting said indicator mechanism to any desired clock time.

2,663,787
HEATING DEVICE
Carl Z. Alexander, Chatham, N. J.
Application February 18, 1952, Serial No. 272,174
4 Claims. (Cl. 219—38)



1. A thermo-syphonic heating device comprising an inner chamber, said inner chamber having formed therein at least one outlet and one inlet port, an outer chamber disposed substantially around said inner chamber and in spaced relationship therewith, said outer chamber having formed therein a return inlet port and an outlet port, the outlet port of said outer chamber being aligned with and having a greater cross sectional area than the outlet port of said inner chamber, a heat distributing pipe line interconnecting the outlet and return inlet ports of said outer chamber, a nipple disposed in the outlet port of said inner chamber and protruding through the aligned outlet port of said outer chamber and into said pipe line in spaced relationship with the inner surface thereof, a heating unit disposed in said inner chamber, means for introducing water into said chambers and said pipe line, and an expansion chamber coacting with said means for introducing water.

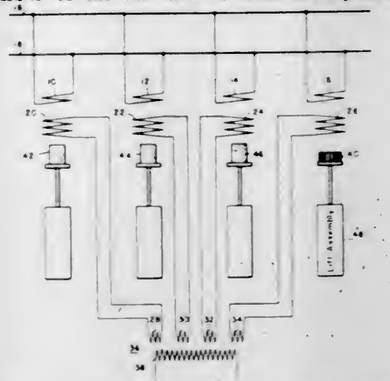
2,663,788
TEMPERATURE CONTROL APPARATUS FOR ELECTRODE TYPE BOILERS
John Arthur Tatem, Dudley, England, assignor to G. W. B. Electric Furnaces Limited, Dudley, England
Application November 21, 1950, Serial No. 196,813
Claims priority, application Great Britain November 28, 1949
3 Claims. (Cl. 219—40)



1 Temperature control apparatus for electrode type water boilers comprising insulating shields interposed between the boiler electrodes and their neutrals, means including an hydraulic motor connected to an electrically driven pump and a magnetically operated valve for shifting the position of the insulating shields to alter the exposure of said electrodes, a first thermo-sensitive switch set at a predetermined value and arranged in the pump driving circuit to break that circuit when the preset value is exceeded and a second thermo-sensitive switch set at a predetermined higher value and arranged in the energizing circuit of the magnetic valve to open that valve when the said higher value is exceeded, whereby electrode exposure is increased only when the boiler temperature falls below that set on the said first thermo-sensitive switch and is decreased only when the boiler temperature rises above that set on the said second thermo-sensitive switch.

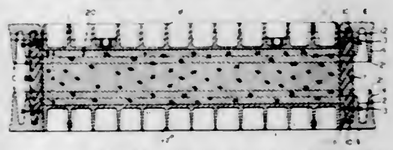
2,663,789
HEAT-TREATMENT APPARATUS
John A. Redmond, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 12, 1950, Serial No. 179,077
2 Claims. (Cl. 219—47)

1. In apparatus for the heat treatment of irregular metallic objects, the combination of a first plurality of induction heating units connected in parallel and connected to a suitable source of high-frequency current, a second plurality of induction heating units corresponding in number and respective dimensions to said first plurality of induction heating units, each of the second plurality of induction heating units being connected to a source of low-frequency current, and a plurality of core members corresponding in number to all but one of said first plurality



of induction heating units and positioned respectively to occupy the latter units other than said one during a heat-treatment time interval when the latter induction heating units other than said one do not contain metallic objects undergoing heat treatment.

2,663,790
MOLD STRUCTURE FOR DIELECTRIC HEATING
George E. Gard, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application June 25, 1951, Serial No. 233,469
6 Claims. (Cl. 219—47)



1. In a mold for the dielectric heating of materials, the combination of a mold wall of dielectric material; metal frames secured to the upper and lower edges of the mold wall and embracing the same on the outer surface thereof as upper and lower peripheral conductors disposed around the outer perimeter of the mold wall and spaced from one another; upper and lower discharge conductors disposed around the outer perimeter of the mold wall, spaced outwardly from the mold wall, electrically connected to said upper and lower peripheral conductors, respectively, and spaced from one another a distance less than the distance between said peripheral conductors; and upper and lower electrodes received within said mold wall, electrically connected to said upper and lower metal frames, respectively, and spaced from one another a distance greater than the distance between said peripheral conductors.

2,663,791
WRITING IMPLEMENT FLASHLIGHT ATTACHMENT
Carl R. Hettrick, Terrace Park, Ohio
Application May 31, 1951, Serial No. 229,014
1 Claim. (Cl. 240—6.46)

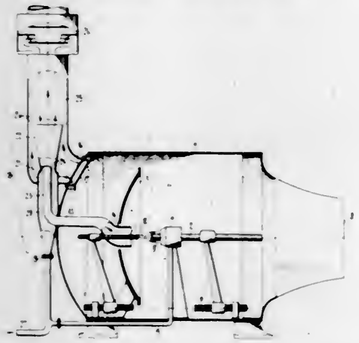
A writing implement for attachment to the open, lamp socket end of a flashlight casing com-

prising an elongated, depletable writing rod and a rigid, hollow shank having a one-piece body made of translucent, plastic material characterized by its low impact strength, said one-piece shank body having an axial opening therethrough to hold and completely surround the



depletable writing rod such that the outside surface of the rod is in close contact with the internal surface of the shank that is formed by the opening therethrough, and means formed integral with the shank for mounting the writing implement to the lamp socket end of the flashlight.

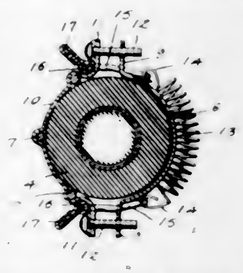
2,663,792
BLOWN ARC LAMP
Edgar Gretener, Zurich, Switzerland
Application January 15, 1951, Serial No. 206,019
9 Claims. (Cl. 240—47)



1. In a blown arc lamp, the combination with a lamp housing, a positive carbon electrode, a hollow electrode head surrounding said electrode and constituting a nozzle to direct a blast of air coaxial with and away from the arc end of said electrode, a negative electrode having an arcing tip in alinement with the axis of the positive electrode, and a suction pipe with an inlet opening adjacent the arc end of said negative electrode to receive said air blast and arc gases entrained thereby; of means for establishing a reduced pressure within said suction pipe, said means comprising an injector into which said suction pipe opens, a blower spaced from and supported independently of said lamp housing, and a pipe connection from said blower to said injector to establish an air current through the same.

2,663,793
EXTENSION LIGHT
Ben A. Novak, Spillville, Iowa
Application June 13, 1951, Serial No. 231,380
1 Claim. (Cl. 240—54)

In an extension light, a reflector hood formed at one end with an approximately semi-circular neck to embrace one side of the outer surface of a bulb socket, a clamping band of approximately semi-circular form embracing the opposite outer surface of said socket, the ends of said neck and band being spaced from one another, outwardly extending ears projecting from the ends of said neck and said clamping band in spaced parallelism, screws threaded through the ears of said clamping band transversely thereof, the ears of said neck having openings therein in registry with said screws and of greater diameter than the latter to loosely receive the same, a contractile



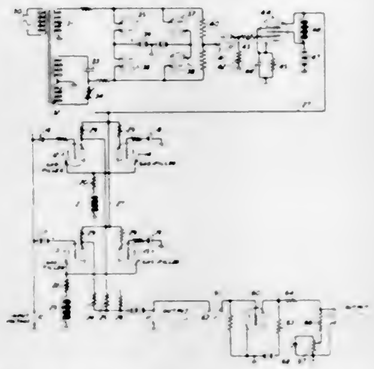
spring extending partially around said neck, links pivoted at their inner ends to the outer extremities of said spring, said links being of greater transverse width than the ears of said neck and clamping band and adapted to engage over the same, and metal clips pivotally secured to the outer ends of said links; said links adapted to engage with the ears of said clamping band when said spring is expanded and to lock under tension of said spring with said clamping band ears.

2,663,794
VEHICLE LIGHT CONTROLLING LENS PANEL
Albert L. Arenberg, Highland Park, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application June 9, 1948, Serial No. 31,992
1 Claim. (Cl. 240—106)



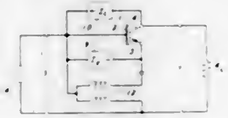
In a light control fixture, a single elongated, light transmissive panel of hollow one-piece, trough-like, cross-sectional outline adapted to be disposed beneath and parallel to an elongated light source to be directly impinged by light emanating from the latter, said panel including opposed, light diffusive side walls and an intermediate transparent section substantially coextensive in area with that between said walls and adapted to transmit direct light from said source, said section being shaped on its surface adjacent said source to provide a multiplicity of elongated lens elements disposed as a longitudinal series in side-by-side, parallel relation and extending transversely of the length of said panel, said lens elements being uniformly oriented in said series with reference to the panel length, each having a flat surface arranged at an acute angle of substantial size to the plane of said section and being laterally defined at one side by a light diffusive edge wall facing toward said source which is substantially normal to said plane and intersects said surface at an acute angle of substantial size, the surface of said panel opposite said lens elements being smooth.

2,663,795
ELECTRICAL WAVE TRANSFORMING SYSTEM
Milton E. Mohr, Jamaica, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 19, 1941, Serial No. 407,461
9 Claims. (Cl. 250—27)



1. In combination, circuit means for converting gradually varying voltage into a voltage varying abruptly in steps comprising a plurality of trigger tubes, a source of interrupted output voltage of constant peak value for the tubes, graduated voltage sources connected to the input terminals of said tubes opposite in sign to said gradually varying voltage, means to apply the gradually varying voltage to the input terminals of said tubes in common whereby certain of the tubes are triggered at a time depending upon the instantaneous value of the applied input voltage, output terminals between which said stepped voltage is to be produced, resistances connected in parallel between one of said output terminals and said source, said trigger tubes having output terminals connected to points in the individual resistances and means including the tubes that are triggered at any one time for individually producing a potential drop in the corresponding resistance between said source of interrupted voltage and said output terminals.

2,663,796
LOW-INPUT IMPEDANCE TRANSISTOR CIRCUITS
Gordon Raisbeck, Morristown, and Robert Lee Wallace, Jr., Plainfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 9, 1950, Serial No. 194,835
4 Claims. (Cl. 250—31)



1. Signal-translating apparatus which comprises a transistor having an emitter electrode, a collector electrode, and a base electrode, said transistor being characterized by collector output current which is a substantial replica of, and in phase with, its input emitter current, an autotransformer having two extreme terminals and an intermediate terminal, a load, said autotransformer and said load being connected, by way of the extreme autotransformer terminals, in series between the emitter electrode and the collector electrode, said intermediate autotransformer terminal being directly connected to the base electrode, and a source having two terminals connected, respectively, to the base electrode of the transistor and to that terminal of the load which is the more remote from the collector electrode of the transistor.

2,663,797
DIRECTIVE ANTENNA
Winston E. Kock, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 5, 1949, Serial No. 91,572
2 Claims. (Cl. 250—33.63)



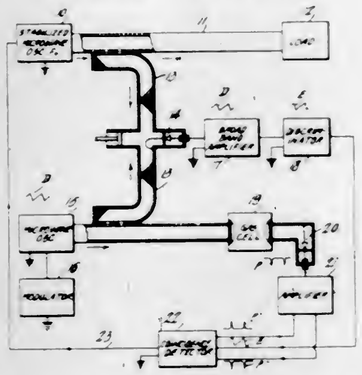
1. In combination with a source of horizontally polarized electromagnetic waves having a preassigned wavelength and a wave guide of circular cross section for transmitting said waves coupled to said source, means coupled to said wave guide for launching into free space waves generated by said source and transmitted by said guide which comprises an outwardly flaring metal horn disposed coaxially with said guide and having a circular throat section of diameter equal to that of said guide, and a circular mouth section of substantially greater diameter, the throat section being conductively connected to said guide throughout its circumference, a first diametral metal strut extending vertically across said throat section and connected thereto at each of its ends, a second diametral metal strut extending vertically across said mouth section and connected thereto at each of its ends, a metal rod connected to the midpoints of said struts and supported thereby extending coaxially with said horn and said guide throughout the length of said horn and outwardly thereof for a distance at least several times said preassigned wavelength, said rod thus comprising two portions, one of which is exterior to said horn and the other of which is interior to said horn, a first plurality of free-edged metal discs mounted on the exterior portion of said rod and coaxially therewith in planes normal to the axis of said rod and connected to said rod at points which are uniformly spaced apart by more than one-quarter wave length and less than one-half wavelength of said waves, each of said discs having a diameter slightly less than one-quarter wavelength and a thickness of substantially one-twentieth wavelength, the periphery and each face of each disc being exposed to free space, a second plurality of free-edged metal discs mounted on the interior portion of said rod and coaxially therewith in planes normal to the axis of said rod and connected to said rod at points which are uniformly spaced apart by more than one-quarter wavelength and less than one-half wavelength of said waves, each of said discs having a thickness substantially one-twentieth wavelength, the periphery and each face of each disc being exposed, the diameters of the discs of said second plurality being progressively diminished from slightly less than one-quarter wavelength at the mouth of said horn to a substantially smaller diameter at said horn throat.

2,663,798

METHOD AND SYSTEM FOR STABILIZING THE FREQUENCY OF OSCILLATORS

William D. Hershberger, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 31, 1948, Serial No. 68,648
9 Claims. (Cl. 250—36)



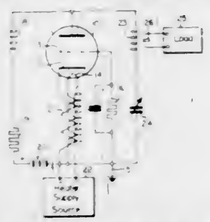
1. For use in a system for stabilizing the frequency of an oscillator, a circuit comprising means for producing a frequency-stabilizing voltage including a comparator having two input circuits; means including a generator having a variable frequency output swept repetitively over a range of frequencies and a sharply resonant circuit element to which said variable frequency output is applied and resonant at a predetermined frequency within said range for applying sharp voltage pulses to one of said input circuits; and means, including a mixer for the outputs of said generator and said oscillator and a discriminator connected to receive the mixer output and having a sharp null-output frequency, for applying a voltage of varying polarity to the other of said input circuits to provide a precise frequency control voltage as the comparator output.

2,663,799

ULTRAHIGH-FREQUENCY OSCILLATION GENERATOR

John F. Bell, Glenview, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application May 27, 1950, Serial No. 164,784
7 Claims. (Cl. 250—36)



1. An ultra-high-frequency oscillation generator comprising: an electron-discharge device having anode, cathode and control electrodes; a condenser having a capacitance small relative to the interelectrode capacitances of said device; an inductor of such inductance value as to resonate with said condenser at a frequency corresponding approximately to the desired operating frequency of said oscillator; conductive means connecting said condenser and said inductor in series relation between said anode and said control electrodes; and a cathode impedance connected to said anode and control electrodes to complete an oscillation generating system, in which the operating frequency is determined by a single mesh resonant circuit comprising the anode-control electrode interelectrode capacitance of said device, said condenser, said inductor, and the self-inductance of said conductive means.

2,663,800

FREQUENCY CONTROLLED OSCILLATOR SYSTEM

Gerald B. Herzog, New Brunswick, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 15, 1952, Serial No. 320,715
16 Claims. (Cl. 250—36)



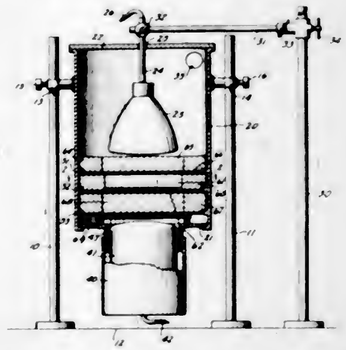
1. A frequency controlled oscillator system comprising, an oscillator including a frequency determining capacitor, a charging and discharging circuit for said capacitor, an impedance element in said circuit, a semi-conductor control device including three electrodes, means connecting one of said electrodes to a point on said impedance element and a second one of said electrodes to another point on said impedance element, and means to apply a control current to the third electrode.

2,663,801

TRANSMISSION FLUORIMETER

Morris Slavin, East Setauket, N. Y., Mary H. Fletcher, Alexandria, Va., and Irving May, Washington, D. C., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application October 8, 1951, Serial No. 250,218
3 Claims. (Cl. 250—77)



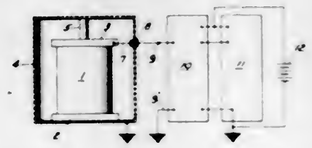
1. A transmission fluorimeter of the class described comprising a light-tight housing, an ultraviolet light source totally enclosed within said housing adjacent one extremity thereof, a light-tight enclosure removably attached to said housing adjacent a second extremity thereof, a fluorescent-light-producing packet mounted within said housing intermediate said source and said enclosure and intercepting all light passing from said source to said enclosure, means adjustably positioning said light source closely adjacent one surface of said packet, said packet including a centrally apertured sample holder interposed between complementary filter holders containing respectively, a first filter permeable to ultraviolet light and a second filter permeable to fluorescent light, said first filter at all times being nearer said light source, a non-fluorescing, fluorescent-light-permeable, sheet member covering the aperture in said sample holder and adapted to support the sample through which the partially filtered light is passed, and a phototube disposed in said enclosure and adapted to measure the fluorescent light originating in the sample held in the sample holder and transmitted through said second filter.

2,663,802

NEUTRON DETECTOR

Philip E. Ohmart, Dayton, Ohio, assignor to the United States of America as represented by the United States Atomic Energy Commission

Application December 11, 1951, Serial No. 261,021
7 Claims. (Cl. 250—83.3)



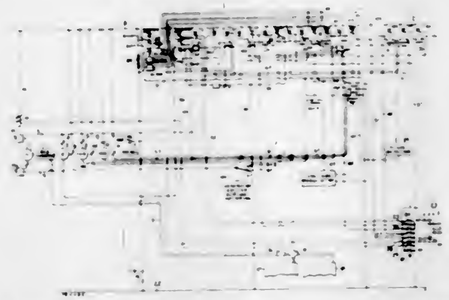
1. A neutron detector comprising an electret for exposure to incident neutrons, means electrically coupled to said electret for detecting the changes in volume charge thereof induced by neutron bombardment, and means coupled to said detecting means for counting and indicating the time rate of occurrence of said changes said rate being proportional to the rate of incidence of neutrons on said electret.

2,663,803

SYSTEM FOR SHUTTING DOWN AND OPERATING THERMAL PRIME MOVERS

Thurlow J. Warrick, Erie, and Carl A. Brancke, North East, Pa., assignors to General Electric Company, a corporation of New York

Application July 2, 1952, Serial No. 296,828
19 Claims. (Cl. 290—4)



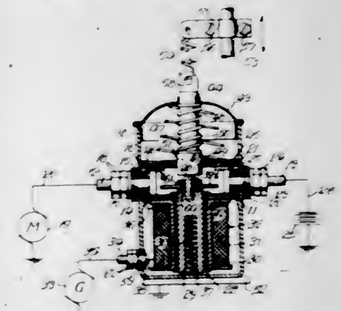
1. A system for shutting down an operating main thermal prime mover having a main generator mechanically connected thereto comprising an auxiliary thermal prime mover having an auxiliary generator mechanically connected thereto, means arranged when actuated to start and operate said auxiliary prime mover, a source of fuel for said main prime mover, valve means arranged when actuated to connect said source of fuel to said main prime mover, means arranged to deactuate said valve means thereby to initiate shut-down of said main prime mover, circuit establishing means arranged when actuated electrically to connect said auxiliary generator to said main generator for operating the same as a motor to crank said main prime mover for cool-down cranking, speed-responsive means connected to actuate said circuit establishing means responsive to the speed of said prime mover falling below a predetermined level as a result of deactuation of said valve means, and time delay means connected to deactuate said circuit establishing means a predetermined time after actuation thereof.

2,663,804

AUTOMATIC STARTER FOR INTERNAL-COMBUSTION ENGINES

Walter A. Wolf, Logansport, Ind., assignor to Switches, Inc., Logansport, Ind., a corporation of Indiana

Application May 2, 1950, Serial No. 159,526
6 Claims. (Cl. 290—37)



6. The combination with an ignition fired combustion engine including an electric cranking motor, a power generator driven by said engine, and a mechanical accelerator for said engine, of a switch for controlling an energized circuit for said cranking motor, which switch comprises a pair of contacts, a member movable toward and away from position for operating said contacts, a first spring for urging said member toward said position, an electromagnet included in a circuit which is connected to said power generator for moving said member away from said position, an armature in and operated by said electromagnet for overcoming said first spring, a second spring for also urging said member away from said position and independently capable of overcoming said first spring, and a third spring operated by said mechanical accelerator for neutralizing said second spring coincident with engine acceleration.

2,663,805

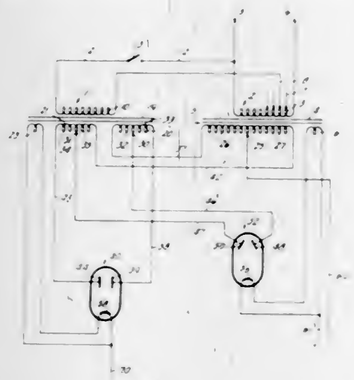
CURRENT SUPPLY CIRCUIT FOR TELEVISION RECEIVERS

Heinz Donn, Pforzheim, Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application June 21, 1952, Serial No. 294,781
Claims priority, application Germany
June 25, 1951
4 Claims. (Cl. 307—12)

1. In a circuit for supplying a plurality of electron discharge devices with cathode and anode

voltages, a main transformer including a primary, a center tapped high voltage secondary and a low voltage secondary, a second transformer including a primary, a pair of center tapped secondaries and a low voltage secondary, means switch connecting the primary of said second transformer to the primary of said main transformer, first and second full wave rectifiers each including two anodes and a cathode, circuit means connecting the center taps of the secondaries of said second transformer to the anodes respectively of said first rectifier, with the outermost windings thereof connected to the respective anodes of said second rectifier, and the innermost windings thereof connected to the outermost windings of the center tapped secondary of said main transformer, and means connecting the low voltage secondary windings of said main and second transformers to the cathodes of said first and second rectifiers whereby direct current operating potentials for some of said devices may be obtained between the center tap of the high voltage secondary of said main transformer and the cathode of said first rectifier, and direct current potentials for other of said devices may be obtained between the said center tap and the cathode of said second rectifier.



2,663,806
SEMICONDUCTOR SIGNAL TRANSLATING DEVICE

Sidney Darlington, Passaic Township, Morris County, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 9, 1952, Serial No. 286,914
10 Claims. (Cl. 307—88)

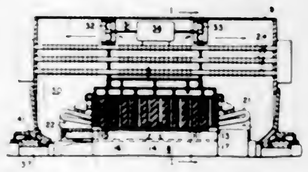


8. A signal translating device comprising a body of semi-conductive material having therein a first zone of one conductivity type, a pair of spaced zones of the opposite conductivity type contiguous with said first zone and a pair of zones of said one type each contiguous with a respective one of said first pair of zones, and remote from the other, means electrically connecting one of said first pair of zones to the one of said second pair of zones remote therefrom, and individual electrical connections to said first zone, the other of said first pair of zones and the other of said second pair of zones.

2,663,807
SEPARATELY MOUNTED FAN MEANS FOR GENERATOR VENTILATION

René A. Baudry, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 10, 1951, Serial No. 250,643
5 Claims. (Cl. 310—53)



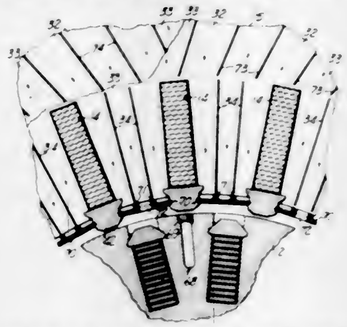
1. A dynamo-electric machine having stator and rotor members, both having cylindrical cores, both cores having axially extending slots and having windings carried by said slots, both said stator member and said rotor member having cooling-passageways therein, the cooling-passageways of both the stator member and the rotor member including one or more radial passageways, the cooling-passageways of at least said rotor member including axially extending ducts in communication with the radial passageways of that member, a gas-filled housing enclosing the entire machine, axially extending cooling-means disposed between said housing and the stator core, and recirculation-means including baffles for causing the gas to pass radially through the radial passageways of the stator and rotor members and through the central portion of the cooling-means, said baffles also causing the gas to flow in the opposite direction through the end portions of the cooling-means and thence into the end-zone spaces of the machine, said recirculation-means being characterized by including two axially spaced fan-means, disposed adjacent to said cooling-means, for causing axial gas-movements in opposite directions between said central gas-movement and the respective end-zone gas-movements, and motive-means for driving said two fan-means.

2,663,808
DYNAMOELECTRIC MACHINE HAVING A VENTILATION SHIELD IN THE AIR GAP

Leon T. Rosenberg, Wauwatosa, and John L. Kuehlthau, Milwaukee, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application June 20, 1952, Serial No. 294,701
9 Claims. (Cl. 310—55)

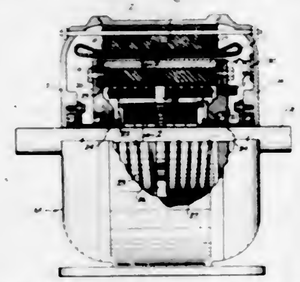
1. A gas cooled dynamoelectric machine comprising a cooler, a stator, a rotatable shaft, and a rotor mounted on said shaft, said rotor including a slotted core provided with an axially extending winding, said rotor winding comprising conductors constructed and arranged in said core slots to provide longitudinal ducts in said core, radial ventilating passages intermediate the ends of said rotor connecting said longitudinal ducts with the air gap of said machine, said stator having radial inlet and discharge ventilating passages and an axially extending winding shield secured to the inner periphery of said stator core in spaced coaxial relation thereto effectively closing to gas discharged from said rotor said stator inlet passages which are substantially opposite said radial passages in said rotor, a centrifugal blower mounted on said shaft, duct means for leading gas from said blower to said longitudinal ducts of said rotor, said blower causing said gas to flow through said duct means and axially through said longitudinal ducts in said rotor, thence radially through said radial passages in said rotor, said air gap and said discharge passages in said stator, thence through said cooler and thence back to said blower, and a fan mounted on said shaft for forcing ventilating gas in a path over the end turn portions of said stator windings, thence radially inward through said stator inlet passages to the air gap of said machine, thence radially outward through said stator discharge passages.



2,663,809
ELECTRIC MOTOR WITH A FIELD RESPONSIVE FLUID CLUTCH

Willis M. Winslow, Wheatridge, Colo., assignor to Wefco Inc., Denver, Colo., a corporation of Colorado

Application January 7, 1949, Serial No. 69,647
13 Claims. (Cl. 310—78)

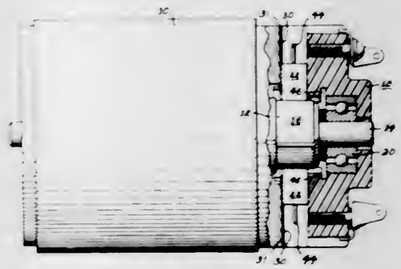


1. In combination with an electric motor having a stator, a rotor and a shaft to be driven by the rotor, of a field responsive fluid coupling interposed between the rotor and shaft and comprising relative rotatable members carried by the rotor and the shaft and arranged in opposed spaced relation within the outlines of the rotor, a medium positioned in the space and comprising a liquid laden with particles so responsive to a magnetic field when established between the spaced members as to become mutually attractive and form a shear resistant substance between said spaced members, and means for establishing a magnetic field between the spaced members the intensity of which will be automatically increased and decreased in accordance with similar changes in the speed of the rotor.

2,663,810
END BELL OR END BRACKET FOR MOTORS

Robert A. Stein, Dayton, Ohio, assignor to The Globe Industries, Inc., Dayton, Ohio, a corporation of Ohio

Application December 8, 1950, Serial No. 199,767
7 Claims. (Cl. 310—238)

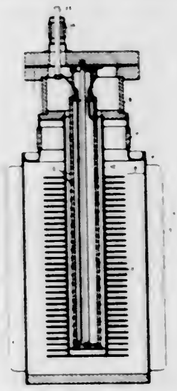


1. In a small high speed motor for use in aircraft and the like, a stator, a rotor, said rotor having a shaft, a commutator supported on said shaft, an insulating end bell carried by said stator, said end bell having brush guides formed therein, a shaft bearing carried by said end bell, brushes slidably supported within said brush guides, and circumferentially extending groove means provided in the inner surface of said end bell between said brushes and said shaft bearing, the side walls of the groove means lying in planes substantially perpendicular to the axis of rotation of the rotor and offset from the end of the commutator.

2,663,811
VAPOR-ELECTRIC DEVICE

John L. Boyer, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

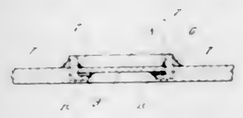
Application December 20, 1950, Serial No. 201,784
23 Claims. (Cl. 313—34)



1. A low-voltage high-current vapor-electric device having an evacuated enclosure-means including an anode-portion of the enclosure-means, a cathode-portion of the enclosure-means, and an insulator-to-metal sealing-means between said anode and cathode portions, a quantity of a vaporizable discharge-carrying stable alkali metal having more than three shells in its atomic structure, a heating-means for heating the active emitting-portion of the cathode, and a coolest-surface cooling-means for cooling some internal

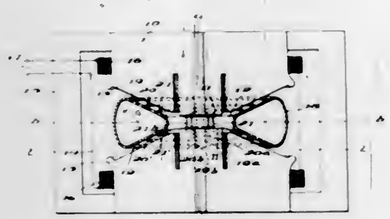
portion of the device to a predetermined temperature-range which is cooler than any other internal portion of the device during the operation of the device, said predetermined temperature-range being at least as high as the temperature at which the discharge-carrying metal has a vapor-pressure of about 1000 microns of mercury.

2,663,812
X-RAY TUBE WINDOW
Noel C. Jamison and Thomas R. Kohler, Irvington-on-Hudson, N. Y., assignors to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y.
Application March 4, 1950, Serial No. 147,644
7 Claims. (Cl. 313—59)



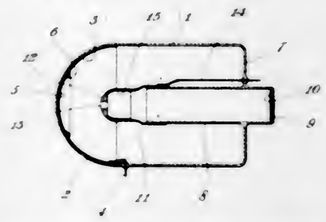
1. An X-ray tube comprising an evacuated envelope, cathode and anode electrodes, and a radiation permeable window in said envelope, said window comprising a thin mica disc coated on the internal surface thereof with a thin light-transparent conductive metallic film having a surface resistance between 10 and 1000 ohms for protecting the window against internal electronic bombardment.

2,663,813
MAGNETIC INDUCTION ACCELERATOR
Rolf Wideröe, Ennetbaden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company
Application November 30, 1950, Serial No. 198,325
Claims priority, application Switzerland December 2, 1949
8 Claims. (Cl. 313—62)



1. A magnetic induction accelerator for charged particles comprising a toroidal evacuated tube, means including a magnetic structure adjacent said tube and winding means thereon for producing a time-varying magnetic field having induction and control components of such spatial distribution relative to said tube as to normally confine electrons within the tube to a substantially circular orbit around the tube while accelerating them along said orbit, a pair of curved conductors having a like radius of curvature mounted concentric with the axis of said tube and disposed at corresponding positions above and below the equatorial plane of said tube in planes parallel with said equatorial plane, and means interconnecting said conductors in short-circuit relation with each other whereby the voltages induced respectively therein by said magnetic field are opposing.

2,663,814
ELECTRON-OPTICAL IMAGE INTENSIFIER
Marten Cornelis Teves and Taeke Tol, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application October 15, 1951, Serial No. 251,296
Claims priority, application Netherlands October 30, 1950
3 Claims. (Cl. 313—65)



1. An electron-optical image intensifier device comprising an evacuated envelope, an anode dividing said envelope into two portions, a photo-electric cathode including an activating material disposed in one of said portions for producing cathode-rays upon excitation, a luminescent image screen disposed in the other of said portions in a position to intercept said cathode-rays, said anode having a small aperture for the passage of said cathode-rays from said cathode to said screen, and a binding substance for the activating material disposed on a wall of said anode in the portion of said envelope containing the luminescent screen.

2,663,815
ION TRAP
George J. Mucher, Rochester, N. H., assignor to Clarostat Mfg. Co., Inc., Dover, N. H., a corporation of New York
Application September 26, 1950, Serial No. 186,863
16 Claims. (Cl. 313—75)



1. An ion trap to be applied to the outer neck surface of a cathode ray tube and including in combination a body of magnetic material, an arm of metal permeable to magnetic flux disposed adjacent said body and resilient means encircling said body and portions of said arm for urging and maintaining said arm in contact with said body.

2,663,816
ELECTRIC DISCHARGE LAMP
Horace H. Homer, Arlington, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application September 28, 1949, Serial No. 118,252
9 Claims. (Cl. 313—185)

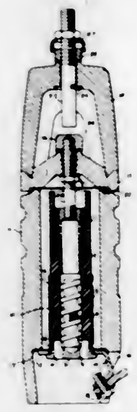
1. A discharge lamp cathode comprising a coiled tungsten wire and an electron-emitting

material held by said wire and consisting mainly



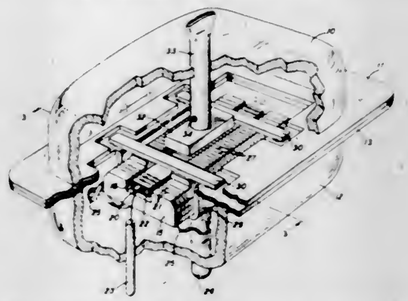
of hafnium oxide and barium oxide in molal ratio between 0.2 to 5.5 and 2 to 5.5.

2,663,817
LIGHTNING ARRESTER
Eugene J. De Val, Pitcairn, and Otto Ackermann, Irwin, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 24, 1951, Serial No. 243,498
15 Claims. (Cl. 313—231)



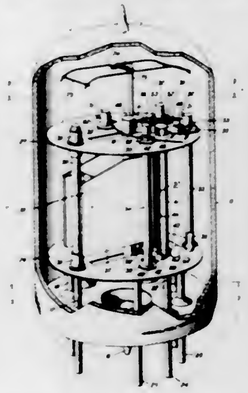
1. A lightning arrester comprising a tubular structure having an internal surface of insulating material capable of evolving gas when exposed to an electric arc, electrode means disposed at the ends of said tubular structure to establish an internal discharge path within the tubular structure, at least one of said electrode means being vented, and means for securing the electrode means in position, the securing means of at least one of the electrode means being adapted to engage the electrode means to retain it in place and to release the electrode means in response to a predetermined internal pressure within the tubular structure.

2,663,818
ELECTRON DISCHARGE DEVICE
Edward J. Walsh, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 15, 1951, Serial No. 231,765
16 Claims. (Cl. 313—250)



5. An electron discharge device comprising a support block having a first and a second surface thereon, a first plurality of lateral wires secured to said block across said first surface and defining an electrode, a second plurality of lateral wires secured to said block across said second surface, and a cathode suspended from said second plurality of lateral wires in the plane of said second surface adjacent said first plurality of lateral wires.

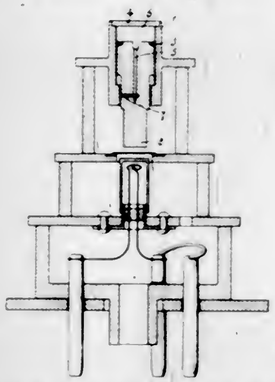
2,663,819
ELECTRODE SUPPORT AND SPACING STRUCTURE FOR ELECTRON DISCHARGE DEVICES
Charles T. Goddard, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Inc., New York, N. Y., a corporation of New York
Application June 15, 1951, Serial No. 231,816
26 Claims. (Cl. 313—261)



11. An electron discharge device comprising a pair of insulator members, a plurality of frame rods extending between said insulator members, said members having a plurality of apertures therein, a control electrode having side rods extending through said apertures and a plurality of wire laterals extending across said side rods and secured thereto, a flat cathode between said side rods and adjacent said wire laterals, means accurately defining the spacing between said cathode surface and said wire laterals comprising a stepped member defining planes for said cathode surface and said wire laterals, and spring

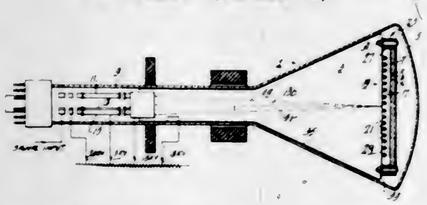
means positioning said cathode surface against said first-mentioned means and in one of said reference planes, said spring means comprising a plate secured to the outer side of each insulator member, said plate having a central channel therein, a plunger extending through said channel and having one end bearing against said cathode and having a slit in the other end, and a spring wire flexed by two of said frame rods in said slit.

2,663,820
SHORT-WAVE ELECTRIC DISCHARGE TUBE
Carel Peter Klöpping, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application September 5, 1952, Serial No. 308,051
Claims priority, application Netherlands
October 6, 1951
2 Claims. (Cl. 313—282)



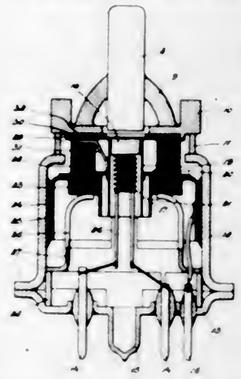
1. A disc-seal electric discharge tube comprising an envelope, a tubular member sealed in the envelope, an electrode containing a duct for evacuation purposes in threaded engagement with said tubular member, a metal disc welded to the outer end of said tubular member to form a vacuum-tight seal therewith, and a filter member disposed in said duct to prevent small particles from entering the interior of the envelope, said filter member consisting of a wad of not more than a few thin wires of a metal selected from the group consisting of tungsten and molybdenum, each of said wires having a diameter of less than 20 microns.

2,663,821
MASKED TARGET KINESCOPE
Harold B. Law, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 16, 1951, Serial No. 231,925
10 Claims. (Cl. 315—1)



1. In the operation of a cathode-ray tube of the masked-target variety containing a beam-source of electrons and an apertured electrically conductive mask through which electrons pass in the form of a beam to a metallized viewing screen, the improvement which consists in applying a common potential to said mask and screen whereby to establish therebetween a "field free" space through which said beam passes in its transit to said screen.

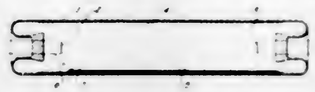
2,663,822
ULTRAHIGH-FREQUENCY ELECTRIC DISCHARGE TUBE
Gesinus Diemer and Klaas Rodenhuis, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application November 1, 1951, Serial No. 254,274
Claims priority, application Netherlands
November 4, 1950
5 Claims. (Cl. 315—43)



1. An electric discharge tube comprising a cathode, an output electrode, and a common electrode interposed between said cathode and output electrode, said common electrode and said cathode electrode having active surface portions spaced apart a distance at which there is a given effective capacitance and a given ballast capacitance between said cathode and said common electrode, the ratio of said capacitances being between $\frac{1}{2}$ and 2, said output electrode and said common electrode having active surface portions spaced apart a distance at which there is a given effective capacitance and a given ballast capacitance between said output and common electrode, the ratio of the latter capacitances being between $\frac{1}{2}$ and 2, said electrodes further being spaced from each other a distance at which the product of said ratios is between $\frac{1}{4}$ and 4.

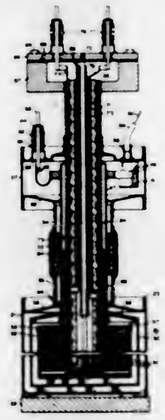
2,663,823
STARTING STRIP CONNECTION FOR DISCHARGE LAMPS
Willem Elenbaas, Dirk Kolkman, and Adrianus A. Hurx, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, as trustee
Application April 27, 1949, Serial No. 89,982
Claims priority, application Netherlands
August 5, 1948
3 Claims. (Cl. 315—73)

1. An electric discharge lamp comprising an envelope containing an ionizable gaseous atmosphere and having spaced electrodes sealed therein, a phosphor coating on its inner surface, an electrically conducting strip on said surface and extending between said electrodes, and conductor means electrically connecting said strip to an electrode for facilitating the starting of a discharge between said electrodes, said strip comprising finely divided metal particles in a vitreous bonding material united with the surface of



said envelope and including a portion of said phosphor coating, said conductor means being permanently connected to said strip and consisting of chrome-iron at the part thereof united with said strip.

2,663,824
VAPOR-ELECTRIC DEVICE
John L. Boyer and August P. Colaiaco, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 15, 1950, Serial No. 144,354
103 Claims. (Cl. 315—106)



1. A vapor-electric device comprising spaced electrodes between which an electric current can flow, and an enclosure-means including an insulator-to-metal seal, said device including a quantity of a vaporizable metal selected from the group consisting of potassium, rubidium and cesium, and further characterized by the metal part of said insulator-to-metal seal having a lightly oxidized vapor-resistant surface composed of a metal having a sufficiently high melting point to enable the formation of said seal, and having an oxidized surface, said seal-metal being one of the chemical group of metals whose oxides have a relatively high negative free-energy, as compared to the negative free-energy of the oxide of said vaporizable metal.

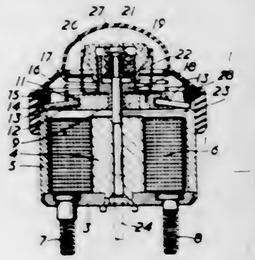
2,663,825
COMBINATION FUSE CUTOUT AND SWITCH
Roald H. Amundson, Milwaukee, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application May 12, 1951, Serial No. 226,077
17 Claims. (Cl. 317—15)

13. A terminal bushing for a transformer casing said bushing including a line terminal at one end and a transformer terminal at the other end, in combination with an electrical closer insertable in said bushing adjacent said line terminal and including a dual characteristic fuse carried thereby and normally closing the circuit between said terminals, said fuse comprising two relatively spaced fusible sections one of which is characterized by its response to predetermined ambient temperatures resultant to continuing overload currents in the transformer and the other of which is responsive to predetermined transient



currents in the transformer, a flexible conductor cable electrically connecting said fusible sections in series, a coil spring surrounding said cable and subjecting said fuse sections to tension, and a switch member carried by said closer in electrical connection with one of said terminals and normally in open circuit relation to the other of said terminals, said closer movable in said bushing to electrically connect said member and said other of said terminals subsequent to rupture of one of said fusible sections.

2,663,826
SOLENOID MAGNET
Maurice S. Snell, Cranham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application October 16, 1951, Serial No. 251,467
10 Claims. (Cl. 317—198)



1. A solenoid magnet comprising a spool winding, a core of magnetic material axially disposed within said winding, a yoke also of magnetic material mounting one end of said core and directed lengthwise of said winding, externally thereof, to a termination adjacent the opposite end of the winding, a centrally disposed member located at said opposite end of the winding, an armature including a plurality of oppositely disposed link-like elements each of magnetic material directed radially outwardly from said cen-

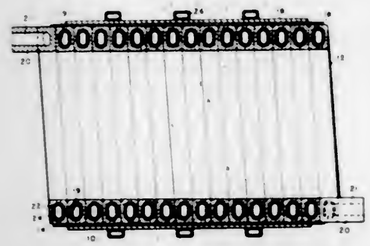
trally disposed member to said yoke, pivotal mounting means formed upon the yoke and upon the centrally disposed member, respectively, and engaged with the outer and inner ends of said link-like armature elements for tilting of the latter, and constituting a magnetically conductive path from the yoke to and along said elements, and guide means wherewith said centrally disposed member is operatively engaged, to constrain said member to movement only axially of the winding, towards and from the core.

2,663,827

RADIO FREQUENCY CURRENT TRANSFORMER

Robert M. Baker, Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 18, 1950, Serial No. 190,743
7 Claims. (Cl. 317—213)



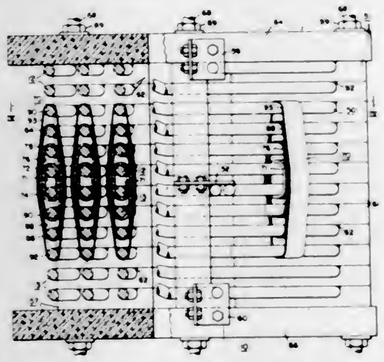
1. In a transformer, in combination, a primary winding comprising an inorganic refractory tubing, a coating of conducting material chemically deposited over the inner surface of the inorganic refractory tubing so as to obtain a continuous adherent contact, a coating of conducting material electrically deposited on the said chemically deposited conducting material, and a secondary winding inductively associated with the primary winding.

2,663,828

REACTOR

Louis E. Sauer, Sharon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 7, 1951, Serial No. 255,189
5 Claims. (Cl. 317—220)



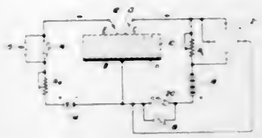
1. In a reactor, the combination comprising, a reactor coil having a plurality of coil sections, means for normally supporting the coil sections in horizontal and vertical spaced relation so as to produce a plurality of vertically and horizontally spaced coil turns, and flexible tieing means disposed for preventing the physical separation of the coil sections when fault current flows therethrough so as to establish a high magnetic repulsive force between at least two of the coil sections, said flexible tieing means comprising a flexible tie of an insulating material disposed around two vertically spaced cooperative coil turns of two said coil sections each of which coil sections has disposed therein one of the cooperative coil turns so as to prevent the cooperative coil turns and said two coil sections from being vertically separated when a high magnetic repulsive force is established therebetween, and another flexible tie of an insulating material disposed around the two coil turns disposed above and below said cooperative coil turns so as to hold them rigidly in vertical spaced relation when fault current flows simultaneously through said two coil sections.

2,663,829

SEMICONDUCTOR TRANSLATOR

Walter H. Brattain, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 29, 1948, Serial No. 67,781
16 Claims. (Cl. 317—235)



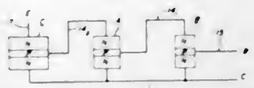
3. The method of forming the collector connection of an N-type germanium translator having emitter, collector and base connections, that comprises applying a positive bias and a signal voltage between the emitter and the base connections, applying a variable negative bias between the collector and the base connections, increasing the collector bias while observing the effect of the signals in the collector circuit until improvement in amplification of said signals is indicated, and then removing the applied voltages.

2,663,830

SEMICONDUCTOR SIGNAL TRANSLATING DEVICE

Bernard M. Oliver, Palo Alto, Calif., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 22, 1952, Serial No. 316,155
4 Claims. (Cl. 317—235)



2. A signal translating device comprising a plurality of junction transistor units having an electrically common collector and individual base and emitter regions, said units being of cross sectional areas progressively increasing in the ratio $1:(1-\alpha)$, where α is the current multiplication factor of one of the units, means directly connecting the emitter region of each but the largest unit to the base region of the next larger unit, and base and emitter connections respectively to the base region of the smallest unit and the emitter region of the largest unit.

2,663,831

SELENIUM DRY-DISK RECTIFIER

Otto J. Klein, Nurnberg (Bavaria), Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application February 9, 1951, Serial No. 210,288
Claims priority, application Germany February 14, 1950
1 Claim. (Cl. 317—241)

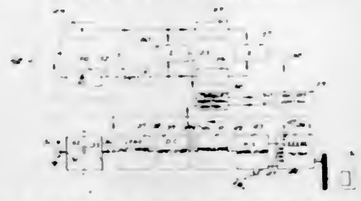
A selenium rectifier comprising a base plate, a layer on said base plate consisting of selenium containing admixtures of a halogen and aluminum oxide in which the aluminum oxide is present in said layer up to 150 milligram-percent of the selenium, and a counter-electrode on said layer.

2,663,832

MULTIPLE MODE CLOSED-CYCLE CONTROL SYSTEM

Donald C. McDonald, Skokie, Kenneth C. Mathews, Evanston, and Robert C. Boe, Des Plaines, Ill., assignors to Cook Electric Company, Chicago, Ill., a corporation of Illinois

Application October 1, 1952, Serial No. 312,482
14 Claims. (Cl. 318—28)



4. In a position control system having a controlling element and a controlled element, electromagnetic means for driving said controlled element, error means for detecting a positional difference between the controlled element and the controlling element, control means for normally energizing said electromagnetic means as an integro-differential function of the output of said error means, computer means to generate a control voltage which is a function of the positional difference, rate-of-change of positional difference, and the acceleration characteristics of the system, and switch means responsive to a predetermined magnitude of said control voltage to cause said electromagnetic means to be energized to produce its maximum force.

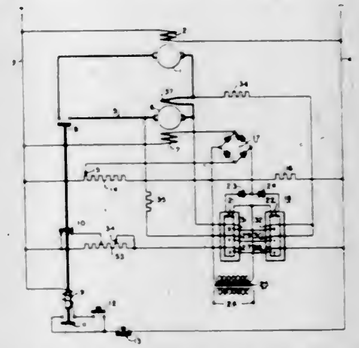
2,663,833

MAGNETIC AMPLIFIER CREEPING SPEED CONTROL

Martin H. Fisher, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 15, 1950, Serial No. 156,068
10 Claims. (Cl. 318—143)

1. Speed-control apparatus, comprising a variable-voltage drive of the Ward-Leonard type having a speed-controlling generator field winding, rectifier means having output terminals and input terminals, direct current voltage supply terminals, circuit means, having a voltage-adjustable member series connected with said rectifier output terminals and said field winding, connected across said voltage supply terminals in voltage-cumulative relation to said rectifier, alternating-current supply terminals for the input terminals of the rectifier, a saturable reactor device series connected to said rectifier input terminals to provide at said rectifier output terminals a variable rectified voltage dependent upon the impedance of the reactor, said reactor device having control coil means for controlling the impedance of said reactor de ce, and drive-speed responsive voltage supply means connected with said drive and said coil means to control the impedance of said reactor device substantially in accordance with the speed of said drive.

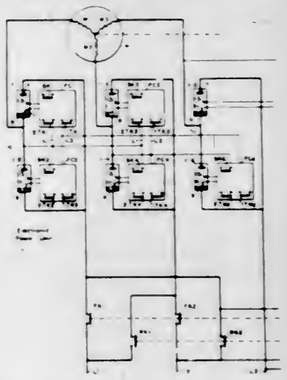


2,663,834

ELECTRIC DISCHARGE APPARATUS FOR ALTERNATING CURRENT MOTORS

William E. Large and Robert F. Barrell, Lancaster, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 27, 1952, Serial No. 311,912
14 Claims. (Cl. 318—227)



1. In combination a polyphase motor having a plurality of phase windings each winding having a pair of terminals; a plurality of supply conductors corresponding in number to the phases of said motor and each adapted to be connected to a phase of a polyphase source; a pair of electric discharge paths each defined by an anode and a cathode and having a control electrode associated with each of said supply conductors; means for connecting said anodes and cathodes of each of said pairs in antiparallel between its associated supply conductor and one terminal of an associated phase winding of said motor, means for interconnecting the remaining terminals of said windings; means connected between the control electrode and the cathode of each said path for rendering said path conductive at a predetermined instant in

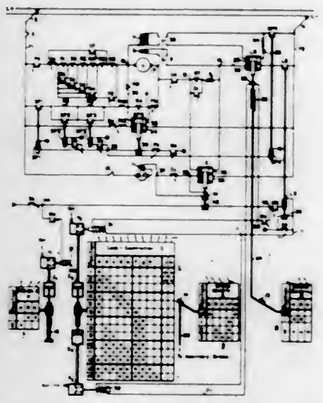
a half period of said source, said means being set to render each corresponding path conductive late in a half period of said source when power is first applied to said motor and means actuable as said motor gains speed to render each said path conductive substantially earlier in the half period of said source.

2,663,835

TRACTION-MOTOR CONTROL

Norman H. Willby, Irwin, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 30, 1951, Serial No. 218,320
15 Claims. (Cl. 318—249)



1. A direct-current motor having a series field-winding, multi-step accelerator-means for making progressive changes in the electrical energization of the motor for increasing its speed, and for controlling the sequence of the motor-accelerating steps, limit-relay means for at times stopping the sequential advancement of the motor-accelerating steps, and excitation-means for making said limit-relay means responsive to the induced voltage in the series field-winding.

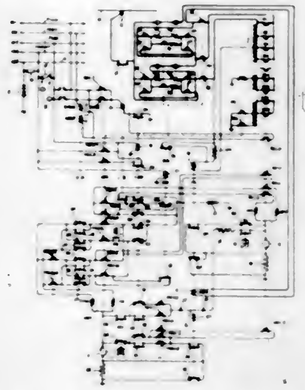
2,663,836

ELECTRIC MOTOR CONTROL SYSTEM

Ira W. Lichtenfels, Harborcreek, Pa., assignor to General Electric Company, a corporation of New York

Application October 26, 1950, Serial No. 192,269
9 Claims. (Cl. 318—262)

1. In a control system for a main motor having an armature circuit, a field circuit and a source of power, a resistance bank adapted to carry main motor current, a first controller having first pilot motor driving means and a plurality of cam operated motor circuit contacts including motor circuit contacts adapted to place said armature circuit, said field circuit and said resistance bank in series circuit with said source of power for motoring, and including motor circuit contacts adapted to energize said field circuit and place said armature circuit across said resistance bank for dynamic braking of said main motor, a second controller having second pilot motor driving means and a plurality of cam operated resistance circuit contacts arranged to tap progressive sections of said resistance bank, means for energizing said pilot motors and including supervisory control means for selectively calling for motoring or braking of said main motor, dynamic braking means for each of said pilot motors, a cam driven interlock on said first controller and for selectively applying braking to or interrupting braking of said first pilot motor, a cam driven interlock or said first controller arranged to disconnect said source of power from said main motor circuits, a cam driven interlock on said first controller arranged to limit travel thereof, a cam driven interlock on said first controller arranged to energize said first pilot motor to run said first controller to a predetermined position in case of an emergency, a cam driven interlock on said first controller arranged to energize said first pilot motor to run said first controller to a predetermined position when main motor braking is called for by said supervisory control means, a cam driven interlock on said first controller and arranged to de-energize said first pilot motor responsive to predetermined conditions only during motoring, a cam driven interlock on said first controller and arranged to de-energize said first pilot motor re-



sponsive to predetermined conditions only during main motor braking, a cam driven interlock on said first controller and arranged to energize said second pilot motor when said first controller has reached a predetermined position, a cam driven interlock on said first controller and arranged to prevent energization of said second pilot motor to run said second controller in a predetermined direction unless said first controller is in a predetermined position, a cam driven interlock on second controller arranged to de-energize said second pilot motor at one limit of travel of said second controller, a cam driven interlock on said second controller arranged to prevent a predetermined direction of travel of said first pilot motor unless said second controller is in a predetermined position, and main motor circuit current responsive means for applying braking to both pilot motors and preventing energization of either of them at predetermined high values of main motor armature current.

2,663,837

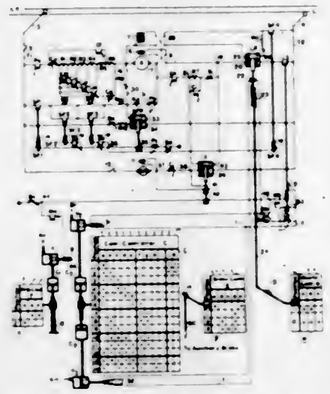
TRACTION-MOTOR CONTROL

Bernard J. Krings, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 7, 1951, Serial No. 219,847
13 Claims. (Cl. 318—274)

4. A motor-combination including a main direct-current motor and an auxiliary direct-current motor, circuit-means for energizing both of said motors across a pair of supply-line terminals, the circuit-means for energizing the main motor including a speed-controller means for

variably energizing said main motor, auxiliary-relay-means, responsive to a lack of current in the auxiliary motor, for preventing the energization of the main motor, interruption-responsive means, responsive to a sudden rate of decrease



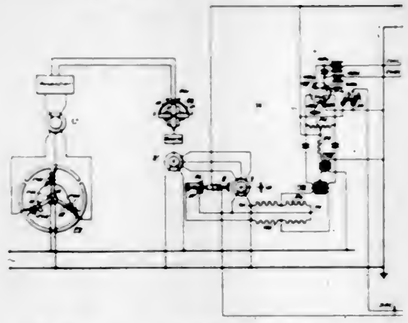
of the current in the main motor, for interposing a block for preventing the energization of the main motor, and means responsive to a low-speed position of said speed-controller means for removing said block.

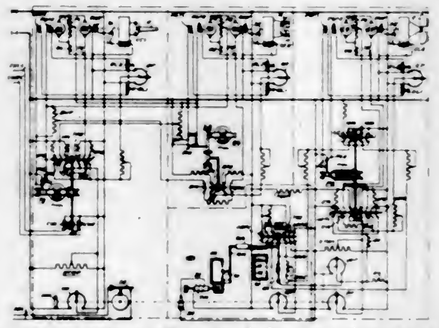
2,663,838

GYROSCOPE SYSTEM FOR DIRIGIBLE CRAFT

Ivar M. Holliday, George R. Douglas, and Clinton R. Hanna, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 14, 1947, Serial No. 785,984
35 Claims. (Cl. 318—489)





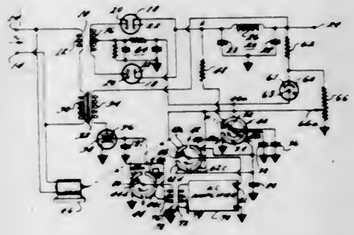
1. In a system of control for steering an aircraft, the combination of, electro-responsive steering control means for said aircraft, a gyroscope for controlling said steering control means, electrical biasing means for controlling said gyroscope, manually operated means for producing electrical quantities, circuit means connecting said manually operated means to said electrical biasing means for applying said electrical quantities thereto for controlling said gyroscope, a synchro control transformer having a stator winding, a rotor and a rotor winding, a brake for locking said rotor, electromagnetic compass means for producing electrical quantities depending upon the course of travel of said aircraft for energizing said stator winding, circuit means connecting said rotor winding to said electrical biasing means for controlling the gyroscope, and means responsive to operation of said manually operated means for actuating said brake to released position and short circuiting said rotor winding.

2,663,839

REGULATED POWER SUPPLY

John N. Marshall, Bryn Mawr, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application May 13, 1950, Serial No. 161,809
9 Claims. (Cl. 321—10)



1. In a system for deriving from a pulsating voltage a non-pulsating unidirectional voltage proportional in magnitude to the average value of said pulsating voltage, in combination, a first capacitor, a second capacitor, a first switch having a terminal connected to said first capacitor, means including said switch to connect said first capacitor to a first source of pulsating unidirectional voltage once during each pulse in the pulsating voltage from said source, a second switch having a terminal connected to said second capacitor, a second source of substantially constant unidirectional voltage, and means including said second switch for connecting alternately said first capacitor and said second source to said second capacitor in voltage transfer relation during intervals between connections of said first capacitor to said first source.

2,663,840

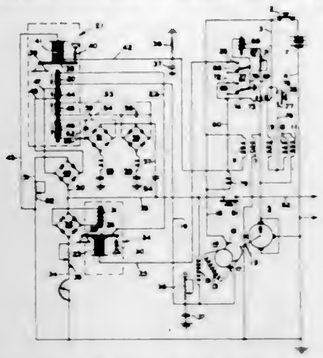
TWO-STAGE STARTING SYSTEM

Harold G. Haas, Belleville, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application June 29, 1951, Serial No. 234,351
5 Claims. (Cl. 322—16)

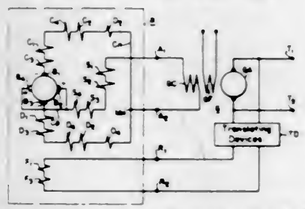
1. In a motor generator system, the combination comprising an alternating current generator, an electric motor for driving said generator, said motor having a main series field winding, an auxiliary series winding, a shunt winding and an armature winding, frequency and voltage regulating means responsive to the output of said generator, relay means responsive to the back

electromotive force across said armature winding to short out said auxiliary winding and con-



nect said voltage regulating means into said system.

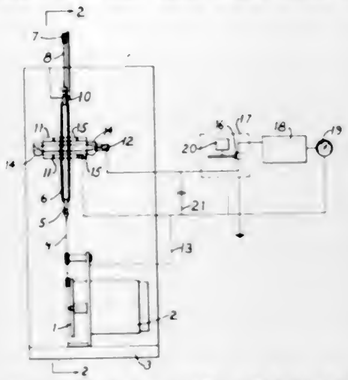
2,663,841
PLURAL-STAGE ROTARY AMPLIFIER
William R. Harding, East Aurora, and Lawrence G. Opel, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 14, 1950, Serial No. 168,022
5 Claims. (Cl. 322—92)



1. An amplifying direct-current machine comprising a field structure with at least two pairs of salient poles, an armature having a commutator with pairs of brushes for each pair of poles, field windings on said respective poles, two brushes of the same electric polarity being connected with each other through said field windings, a control winding inductively associated with two of said poles of the same magnetic polarity to produce a controlled voltage difference between said two brushes for energizing said field windings, said latter two poles having respective magnetic retentivities different from each other.

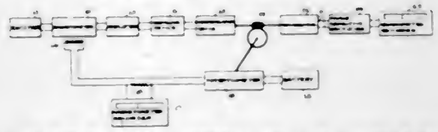
2,663,842
APPARATUS FOR MEASURING ELECTROSTATIC CHARGES
George W. Graham, Beloeil, Quebec, Canada, assignor to Canadian Industries Limited, Montreal, Quebec, Canada, a corporation of Canada
Application October 7, 1952, Serial No. 313,575
1 Claim. (Cl. 324—32)

An apparatus for measuring the charges of static electricity accumulated upon the surfaces of fibers, filaments and yarns comprising in combination an L-shaped support, a motor-driven eccentric placed on the bottom of said support, a non-conductive filament having one end attached to said eccentric and the other end attached to a non-conductive hook adapted to engage one end of a hank of said fibers, filaments and yarns, a second non-conductive filament passing over two pulleys attached to opposite sides of said support at the top thereof, said second filament having one end attached to a balance weight and the other end attached to a second non-conductive hook adapted to engage the other end of said hank, and three metallic rods attached to said support at a point intermediate between said hooks and adapted to come into contact with said hank transversely thereof,



two of said rods being made of steel and being connected to the ground and having pins mounted thereon to guide the motion of said hank, the other rod being made of brass and being positioned between said steel rods and being attached to said support by non-conductive means and being connected to a voltage measuring device.

2,663,843
MAGNETIC GRADIOMETER
Warren E. Wickerham, Penn Township, Allegheny County, and Orville K. Doolen, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application August 3, 1950, Serial No. 177,424
3 Claims. (Cl. 324—43)

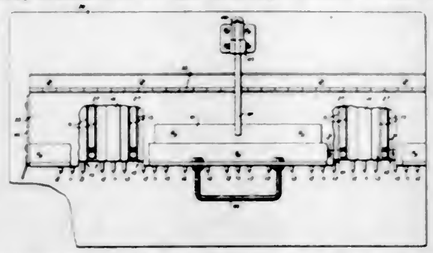


1. Apparatus for measuring the time-rate-of-change of magnetic intensity comprising detecting means sensitive to an intensity value of a magnetic field, electromechanical transducing means electrically connected to the output of said detecting means, means for compensating the major portion of said magnetic field, said compensating means being controlled by said electromechanical transducer, an electromagnetic generator mechanically coupled to said transducer, and means electrically connected to said generator indicating the electrical output thereof.

2,663,844
CONTACT FIXTURE
Norman E. Earle, Groveland, and Edwin E. Leidich, Merrimac, Mass., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 29, 1951, Serial No. 218,118
1 Claim. (Cl. 324—51)

An apparatus for use in combination with a testing circuit for testing electrical units for possible discontinuities in insulating coverings on conductve portions thereof, the apparatus com-

prising a shelf-like support and an element pivotally mounted relative to the support and movable into open and closed positions, resilient members secured to the respective upper and lower surfaces of the support and element, spacers mounted at selected positions adjacent the member on the support to locate the electrical units at spaced positions thereon, flexible contact surfaces, connected to the testing circuit, secured to



the adjacent surfaces of the resilient members to engage the electrical units to be tested, means to include the conductive portions of the units in the testing unit singly, and means to force the element into closed position to compress the resilient members whereby the flexible contact elements will conform to their respective surfaces of the electrical units and enter any open portions in the insulated coverings to close the circuit through the conductive portions thereof.

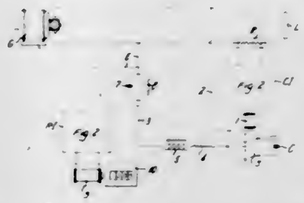
2,663,845
CLAMP ON TYPE ELECTRICAL MEASURING INSTRUMENT
Samuel J. Koch, Elmont, N. Y.
Application January 28, 1950, Serial No. 141,066
2 Claims. (Cl. 324—127)



1. In an electrical measuring instrument, a housing, a meter unit disposed within one portion of said housing, a scale plate disposed within another longitudinally adjacent portion of said housing, a partition wall extending transversely from one side of said housing to the rear surface of said scale plate, and means for mounting said meter unit on the portion of said scale plate above said partition wall, said meter unit having a pointer in overlying relation with said scale plate.

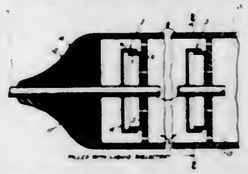
2,663,846
INTEGRATING DIRECT CURRENT WATTMETER
Roswell W. Gilbert, Montclair, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application August 5, 1949, Serial No. 108,811
5 Claims. (Cl. 324—135)

1. In apparatus, for integrating against time the product of different related electrical variables of an electrical network a plurality of cascaded current-actuated integrating units, the number of integrating units being equal to the number of electrical variables, input circuits for energizing the several integrating units each in accordance with a different one of said variables, the input circuit for one integrating unit including in series a condenser and polarity reversing



switch, whereby the said integrating unit responds to the average charge-discharge current of the condenser to develop a voltage integration, means controlled by another integrating unit to actuate said polarity reversing switch, and an indicator actuated by the final one of the cascaded integrating units to register the time integrated product function of the said variables.

2,663,847
PHASE CHANGER
André G. Clavier, Nutley, N. J., and David L. Thomas, Lee, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 20, 1950, Serial No. 163,298
5 Claims. (Cl. 333—31)

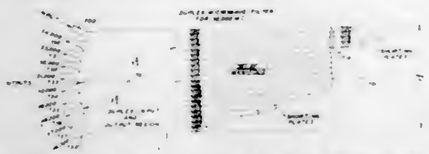


1. A phase changer for use in conjunction with a guide line capable of surface propagation of high frequency energy by means of an electromagnetic field formed about such line, comprising a line conductor, a plurality of conductor sections of cross-sectional size greater than the cross-sectional size of said line conductor, each of said sections comprising a pair of elements extending radially of said line conductor, each of said elements having an axially disposed flange, the flanges of the elements in said pair being disposed in overlapping relation, and means for simultaneously moving a corresponding element of each pair for changing the size of said sections.

2,663,848
ELECTROMAGNETIC WAVE MICROWAVE FREQUENCY FILTER
Willard D. Lewis, Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 21, 1951, Serial No. 212,129
5 Claims. (Cl. 333—73)

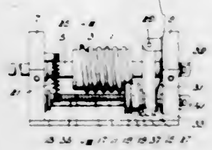
5. An electromagnetic wave, microwave frequency, filter comprising a delay manifold consisting of a plurality of lengths of wave guide of like cross-section and of progressively increasing length, each said length of guide having an input aperture and an electrically short-circuited

or closed opposite end, the input apertures being aligned contiguously in order of their respective relative lengths, input means for distributing electromagnetic wave energy including a wide band of microwave frequencies over said alignment of input apertures and output means angu-



larly positioned with respect to said apertures to receive electromagnetic wave energy of frequencies within a restricted portion only of said wide band of frequencies whereby said restricted portion of said wide band of frequencies is isolated in said output means.

2,663,849
VARIABLE COIL ASSEMBLY
Wilhelmus Lambertus Vervest and Gozewijn van Gelder, Hilversum, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 3, 1952, Serial No. 280,408
Claims priority, application Netherlands April 23, 1951
3 Claims. (Cl. 336—141)



1. A continuously variable coil assembly comprising a continuously rotatable winding, a contact member in engagement with said winding and arranged to follow along the winding as the winding is rotated, means for lifting the contact member off said winding, locking means for preventing the contact member from re-engaging said winding after it is lifted off, means for restoring the contact member to its initial position, and means for releasing the contact member so that it re-engages the winding.

2,663,850
KEY PLUG FOR SPECTATOR ANNOUNCEMENT SYSTEMS FOR PUBLIC EVENTS
Edward R. Mellinger and Ruth E. Mellinger, Williamsport, Pa., and Dudley B. Howard, Chatham, N. J.; said Howard assignor to said Edward R. Mellinger and Ruth E. Mellinger
Original application December 21, 1948, Serial No. 66,412. Divided and this application June 11, 1952, Serial No. 294,594
10 Claims. (Cl. 339—45)

1. In an electrical system including a primary operating circuit and switching means therefor; a jackbox including a socket member having outlet sockets of special key-shape, electrical contacts embedded in said sockets and being connected with the primary operating circuit, a connector plug adapted to be connected with a secondary circuit and having standard contact prongs; a key-plug including a body having standard sockets therein adapted to fit the contact prongs of the secondary circuit connector plug, electrical contacts embedded in the sockets of the key-plug, and contact prongs connected with said electrical contacts of the key-plug and being specially key-shaped to fit the sockets of the outlet socket member of the jackbox; locking means provided in the jackbox for engagement



with the key-plug when plugged in, means tending to maintain the locking means in locking condition, and means actuated by changing the electric current condition of the primary operating circuit whereby the locking means may be released to free the key-plug.

2,663,851
LAMP LOCKING LAMPHOLDER FOR TUBULAR LAMPS
John M. Pistey, Fairfield, Conn., assignor to General Electric Company, a corporation of New York
Application November 5, 1952, Serial No. 318,850
1 Claim. (Cl. 339—50)

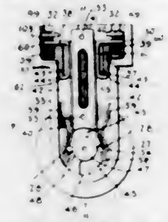


In a lampholder, a housing having a slot at one end through which a contact pin on the end of a tubular lamp may be inserted, a pair of contact arms in the housing having spaced free ends adjacent and in alignment with said slot and shaped to define a seat for holding a tubular lamp contact pin, one of said arms being biased toward the other arm and having an end which projects beyond said seat, and a locking finger pivotally mounted at the edge of said slot having an inner end which projects into the slot and into engagement with the inner side of said projecting contact end and is biased by such contact end to a position where it projects partially across the slot, the outer end of said finger projecting beyond the lampholder housing to provide an actuating end for turning the finger.

2,663,852
SOCKET FOR FLUORESCENT LAMPS AND THE LIKE
Henry Kershaw, Belleville, N. J.
Application December 26, 1951, Serial No. 263,316
2 Claims. (Cl. 339—53)

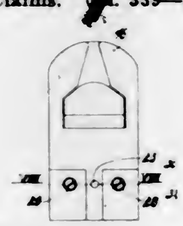
1. A socket for a fluorescent lamp or the like having a pair of terminals at its end, said socket

having elongated slots to receive the terminals, spring contacts within the socket, at least one spring contact including a metal strip bent back upon itself to provide a two-layer V-shaped head having an angularly disposed extension arranged to contact with the wall of the socket, said V-shaped head forming a recess having its open side face inwardly, the two layers of the V-shaped head contacting with each other for increasing the stiffness of such head which must be flexed



before the terminal can be removed therefrom when the angularly disposed extension contacts with the wall of the socket, the outer layer of the V-shaped head being continued to form a leaf spring having its free end spaced from the metal strip and arranged to bear against the wall of the socket to force the V-shaped head inwardly into engagement with the terminal, and means to secure the opposite end of the strip of each contact in place within the socket.

2,663,853
ELECTRICAL CONTACT ASSEMBLY
Johannes Hendricus Franciscus van Werd and Charles Henri Joseph Anderson, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 13, 1950, Serial No. 155,600
Claims priority, application Netherlands April 22, 1949
2 Claims. (Cl. 339—210)



1. An electrical apparatus comprising an insulating body having surface portions and a passageway having a given diameter leading from one said surface portion to a chamber in said body, said chamber having wall portions, one said wall portion having a cavity interconnecting said passageway and said chamber, a screw member in said chamber including a head portion having a diameter greater than said given diameter positioned in said cavity with a surface adapted to accommodate a tool at said passageway and a stem portion of said member extending into said chamber up to one of said wall portions, a nut on said stem portion remote from said head portion slidingly engaging another said wall portion of said chamber, a substantially L-shaped conductive element having a short side thereof adjacent said head portion and having an aperture therein through which said stem portion freely passes and a long side thereof extending parallel to said stem portion of said screw member and slidingly engaging said nut on said stem portion, said short side of said conductive element and said nut defining a spacing therebetween, said insulating body having a conduit therein extending from one surface into said spacing transversely to said stem portion of said screw member.

2,663,854
BATTERY CABLE CLAMP
Oscar L. Peterson, Prentice, Wis.
Application October 4, 1951, Serial No. 249,683
6 Claims. (Cl. 339—225)



1. A battery cable clamp comprising an elongated body of conducting material having a battery post receiving opening extending transversely therethrough adjacent one end thereof, said body having a longitudinal bore entering its opposite end and communicating with the transverse opening, a lever pivotally carried by the body adjacent the transverse opening, a cable clamping jaw carried by the lever and movable therewith into the bore adjacent the opening, and a battery post piercing prong carried by the jaw adjacent the opening for engaging and piercing a battery post.

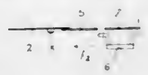
2,663,855
CALIBRATING MEASURING SYSTEM
George E. Beggs, Jr., Warrington, Pa., and Alfred W. Kozak, Camden, N. J., assignors to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 1, 1949, Serial No. 102,616
11 Claims. (Cl. 340—178)



1. In combination, a conversion system for producing electrical signals having magnitudes representative of the magnitudes of a plurality of predetermined conditions, said system including a controller for producing a succession of said signals in predetermined sequence which are respectively representative of said plurality of conditions, a balanceable network including a calibration slidewire and associated contact relatively adjustable with respect to each other and a measuring slidewire and associated contact relatively adjustable with respect to each other, a servo system including a selector switch for selective relative adjustment between said calibration slidewire and its associated contact and between said measuring slidewire and its associated contact, said network having an input circuit for application thereto of said electrical

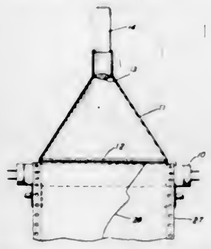
signals from said conversion system, means operable upon application to said balanceable network of a signal representative of a selected one of said conditions for operating said selector switch for relative adjustment between said calibration slidewire and its contact by said servo system to balance said network, said selector switch subsequently being operable to connect said servo system for adjustment of said measuring slidewire relative to its contact to rebalance said network.

2,663,856
ELECTRIC INDICATING DEVICE
Joseph Amblard, Paris, France
Application January 15, 1952, Serial No. 266,517
Claims priority, application France January 24, 1951
7 Claims. (Cl. 340—201)



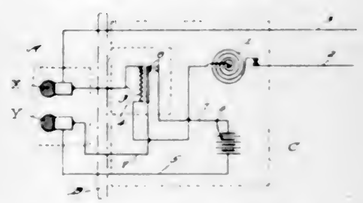
1. In a transmitter of an electric indicating device designed to record a phenomenon and comprising, connected together to form a closed circuit, a source of electric current, a receiver sensitive to the average intensity of the current, and the above mentioned transmitter for controlling the current as a function of the phenomenon to be recorded, said transmitter comprising: a stationary contact member; a bimetallic strip one end of which is capable of vibrating and provided with a contact member for operating with the stationary contact member; and a resistance adapted to heat the bimetallic strip and of which one end is connected to said strip, the other end of said resistance and the stationary contact being connected in series in the said circuit; the provision of an element made of magnetic material integral with the vibrating end of said bi-metallic strip and means for producing, on the said element, a magnetic force which is variable according to the phenomenon to be recorded, so that the freedom of vibrating of the strip depends on said phenomenon and that the average intensity of the current passing the two contact members also depends on said phenomenon.

2,663,857
CURVE FOLLOWER
Arthur L. Holcomb, Tarzana, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 25, 1951, Serial No. 253,187
4 Claims. (Cl. 340—212)



4. An electronic means for indicating the position of a point on a curve with respect to a fixed reference point comprising a television image tube having a light receiving means, an electronic scanning beam and a means for deflecting said beam in at least one plane, a support for holding said tube with its light receiving axis in a fixed position relative to the surface of an object containing said curve, an optical system mounted in the light path of the tube for focusing the image of said object upon said light receiving means, sweep circuits connected to said deflecting means for repeatedly deflecting said beam in a direction crossing the image of the curve whereby electric signal pulses are generated in said tube as the beam crosses said image, a capacitor and a means for charging said capacitor to a voltage which is a function of time, synchronizing means connected between said sweep circuit and said charging means for synchronizing the start of the sweep from a fixed reference point with the commencement of charge on said capacitor, circuits coupling said tube to said charging means whereby the pulse generated in the tube stops the charging of said capacitor, and means responsive to the voltage on said capacitor for indicating the position of the point on the curve crossed by the beam with respect to the fixed reference point.

2,663,858
MEANS TO INDICATE TEMPERATURE AND ELECTRIC FAILURE
John N. MacInnes, Newfields, and Paul H. Gerard, Newmarket, N. H.
Application February 21, 1950, Serial No. 145,324
2 Claims. (Cl. 340—220)

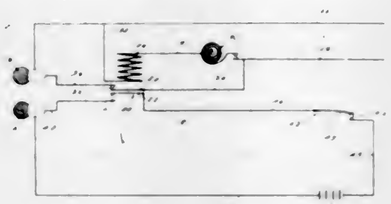


1. Means for indicating electric failure, comprising two different signals, a separate operating circuit for each signal, a switch interposed in the circuit for one of the signals and closed during the flow of current through the circuit, said switch opening upon interruption of the current flow, a switch in the circuit for the second signal maintained open during the current flow through the circuit of the first signal, said second switch closing upon opening of the first switch, said second switch including a pair of contacts, a bi-metallic element carrying one of said contacts, and a resistance heater element interposed in the circuit for the first named signal and positioned adjacent to said bi-metallic element, said bi-metallic element functioning upon a predetermined heating thereof by the resistance heater to maintain said contacts electrically separated.

2,663,859
THERMAL AND MAGNETIC MEANS OF INDICATING TEMPERATURE AND ELECTRIC FAILURE
John N. MacInnes, Newfields, and Paul H. Gerard, Newmarket, N. H.
Application February 12, 1951, Serial No. 210,565
2 Claims. (Cl. 340—227)

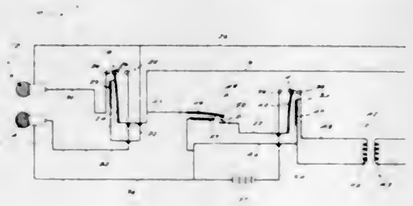
1. Means for indicating current failure in a principal electric circuit, comprising an electric signal element connected in series in said circuit,

a relay including a magnet coil and two parallel conductors movable as a unit between a first position in which the unit is held by the energized coil and a second position, one of said conductors being in series connection in said circuit when said unit is in said first position, said magnet coil being connected in the circuit in bridge across the signal element and the conductors, a second circuit, an electric signal element in series in the



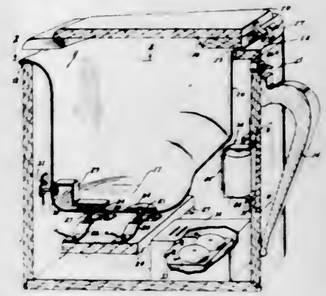
second circuit, the other one of said conductors being arranged for connection in series in the second circuit when said unit assumes its second position upon deenergization of said coil, a source of electric potential for the second circuit independent from the current source for the first circuit and a normally closed thermal switch in said second circuit designed to open in a temperature above a pre-selected normal.

2,663,860
THERMAL MEANS OF INDICATING TEMPERATURE AND ELECTRIC FAILURE
John N. MacInnes, Newfields, and Paul H. Gerard, Newmarket, N. H.
Application February 12, 1951, Serial No. 210,566
5 Claims. (Cl. 340—227)



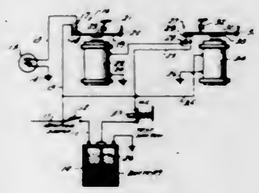
1. Means for indicating current failure in a principal electric circuit comprising two electric signals, a separate operating circuit for each, one of said circuits drawing current from said principal circuit, a thermal relay including a terminal for each circuit and a bi-metal switch blade common to the two circuits for the selective closing of said circuits by contact with one or the other of said terminals, a resistance heater connected across the principal circuit, said heater when energized affecting said bi-metal blade to maintain the said one circuit closed, and a source of electric potential for the other one of the circuits, said resistance heater being of such value as to be ineffective to influence the bi-metal element sufficiently to maintain the said one circuit closed upon depression of the temperature of the surrounding atmosphere below a predetermined value.

2,663,861
BABY TRAINER CHAMBER
Jack V. Heath, Vivian, S. Dak.
Application June 27, 1951, Serial No. 233,859
3 Claims. (Cl. 340—235)



1. A device of the character described comprising a housing provided with a bottom, side walls and a top having an opening therein, a porcelainized container having sides, a bottom, a pouring lip, and an outwardly extending lip engaged atop the peripheral portion of the opening in the top of said housing, a handle affixed to the outer rear wall of said housing, a seat hinged to said housing top, a seat cover hinged to said housing top, a bracket affixed to the inner wall of said housing, a plurality of dry cell batteries mounted in said bracket, an alarm casing mounted in the lower portion of said housing, an alarm in said casing, said alarm being connected in the same circuit as said batteries and a pair of spaced, electrical contact discs mounted in the bottom of said container, said discs being connected in the circuit of said alarm and batteries and forming thereby an open switch adapted to be closed upon the depositing of acid urine in said container whereby to sound said alarm.

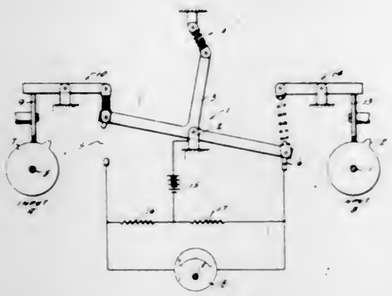
2,663,862
BATTERY INDICATOR
Robert P. De Anthony, Dayton, Ohio
Application July 10, 1950, Serial No. 172,889
3 Claims. (Cl. 340—249)



1. In an apparatus comprising a main circuit, a wet cell battery to supply current to said circuit and a main switch to control the connection between said battery and said circuit, a signal circuit connected with said main circuit on that side of said main switch which is opposite said battery, a signal in said signal circuit, a self-closing and normally closed signal switch in said signal circuit, means for opening said signal switch simultaneously with the closing of said main switch, said means including an electromagnet, an electrode extending into said battery to a point below the normal level of the electrolyte therein, and a circuit connecting said electrode with said magnet to energize said magnet

when said electrode extends into said electrolyte and to deenergize said magnet and release said switch for closing movement when said electrolyte is out of contact with said electrode, and means controlled by said main switch to deenergize said magnet when said main switch is opened, regardless of the amount of electrolyte in said battery.

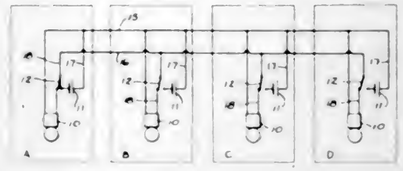
2,663,863
MECHANICAL TIME COMPARATOR MECHANISM
Maurice E. Buehler, San Diego, Calif.
Application December 27, 1951, Serial No. 263,679
4 Claims. (Cl. 340—268)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A synchronism detector comprising a pivotably mounted control member, biasing means to cause said control member to tend to remain in a first position when said control member has been unbalanced in one direction and to tend to remain in a second position when said control member has been unbalanced in the other direction, means to apply a first force to said control member to cause said control member to be unbalanced in said one direction in response to a first periodic phenomenon, means to apply a second force to said control member to cause said control member to be unbalanced in said other direction in response to a second periodic phenomenon, a first pair of contacts operated by said control member and so arranged that they are closed when said control member is in said first position and open when said control member is in said second position, a second pair of contacts operated by said control member and so arranged that they are open when said control member is in said first position and closed when said control member is in said second position, electrical indicator means and circuit means including said first and second pair of contacts for energizing said electrical indicator means.

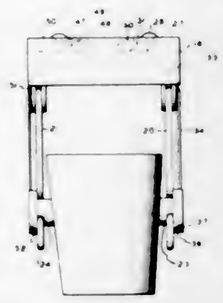
2,663,864
ELECTRIC BURGLAR ALARM SYSTEM
Olaf C. Cundiff, Detroit, Mich.
Application June 29, 1951, Serial No. 234,170
1 Claim. (Cl. 340—274)

In a burglar alarm system interconnecting a plurality of institutions an electric circuit including a source of electric energy at each of said institutions, a system-operating switch and an alarm signal in each of said institutions; each of said switches being adapted normally to keep its alarm signal connected to said circuit and its source disconnected therefrom, and being further



adapted when operated to disconnect its alarm system and to connect said source to said circuits.

2,663,865
SIGNAL FOR LIFTING APPARATUS
Richard H. Williams, Amsterdam, Ohio, assignor to National Steel Corporation, a corporation of Delaware
Application November 14, 1949, Serial No. 126,980
2 Claims. (Cl. 340—282)

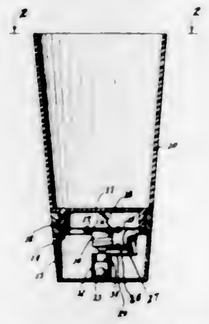


1. In a crane for lifting an article, the combination comprising, a lifting hook having a recess for receiving a portion of the article to be lifted when arranged in lifting engagement with an article to be lifted, electrically operated signal means, and a normally open electric circuit means for connecting the signal means to a source of electric current, said circuit means including a normally closed first conductor means for connecting one side of the signal means to a source of electric current and a normally open second conductor means including the lifting hook for connecting the signal means to the other side of a source of electric current, and said second conductor means including conductive means carried by the lifting hook in position to be engaged by said portion and complete the electric circuit through the lifting hook to the signal means only upon said portion of the article to be lifted being in the hook recess.

2,663,866
ILLUMINATED DRINKING GLASS
Robert E. Simpson, New Rochelle, N. Y.
Application August 23, 1951, Serial No. 243,193
1 Claim. (Cl. 340—282)

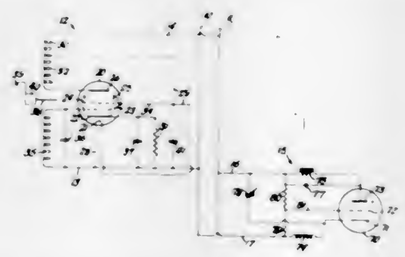
An illuminating attachment for tumblers, providing a body member having means for the attachment of the same to the bottom of a tumbler, said body member being of cup shape and having an upstanding bottom sleeve projection, said body member having an inwardly extending flange, a plate adapted to be supported by the flange, a

lamp bulb socket connected to the plate, said plate having a central opening to provide access to the socket, a lamp bulb fitted into the socket, a contact member having a sleeve projection adapted to enter the top end of the bottom sleeve portion, said sleeve portion of the contact member being vertically aligned with the socket and with the lamp bulb, said lamp bulb having a bottom contact, a ball operable in the bottom sleeve projection and



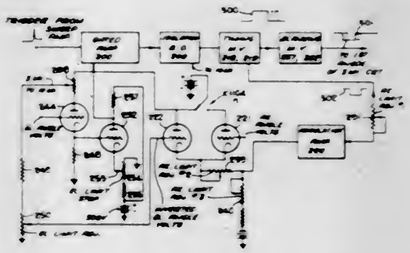
adapted to extend through the sleeve portion of the contact member to engage with the bottom contact of the lamp bulb as the tumbler with the attachment is inverted, said contact member having a horizontal arm and upstanding clip portion thereon, said socket having a flange with depending clip portions for retaining the battery against the socket, said upstanding clip portion of the contact member being engageable with an end terminal of the battery.

2,663,867
DETECTING APPARATUS
Louis Favara and Lawrence C. Green, Buffalo, N. Y.
Application September 13, 1950, Serial No. 184,626
5 Claims. (Cl. 340—310)



1. In detecting apparatus, a detector comprising a frame, a member supporting said frame, a transmitter arranged on said frame and comprising an oscillator having a thermionic tube and grid and plate coils therefor, said coils being arranged on said frame substantially coaxially and in vertically spaced and inductive relation, a magnet movably mounted on said frame and arranged for pivotal movement in a substantially horizontal plane, a shield carried by said magnet movable thereby in a substantially horizontal plane and arranged between said coils to control the inductive coupling of said coils, said magnet being actuated in response to the approach of a magnetically permeable object within a predetermined area of detection and arranged to move said shield so as to effect a change in the inductive coupling of said coils, a housing surrounding said transmitter, the bulb portion of said thermionic tube projecting downwardly, a partition member carried by said frame and having an opening through which said bulb portion projects, said housing having openings below said partition member to permit the passage of air therethrough to dissipate heat generated by said bulb portion, and means arranged to permit adjustment of said magnet relative to said coils whereby said magnet may be oriented initially to its magnetic environment so as to arrange said shield in effective position between said coils.

2,663,868
SWEEP LIMITER IN RADAR INDICATING SYSTEM
Raymond B. Tasker, Sepulveda, Calif., assignor to Gilfillan Bros., Inc., Los Angeles, Calif., a corporation of California
Application February 21, 1951, Serial No. 212,163
10 Claims. (Cl. 343—11)



1. In a system of the character described, an azimuth antenna, an elevation antenna, energy transmitting means periodically triggered at a relatively high rate, means alternately coupling said transmitting means to said azimuth antenna and said elevation antenna at a relatively low rate to produce alternately a plurality of azimuth antenna beams and a plurality of elevation antenna beams, means operating synchronously with said coupling means for scanning each of said antenna beams in space, means deriving a corresponding azimuth angle voltage and an elevation angle voltage, the instantaneout magnitude of each of which is representative respectively of the position of the azimuth and elevation beams, a cathode ray tube having a pair of quadraturely acting cathode beam deflecting means, two position beam centering means alternately effective to move the cathode beam to different adjusted center positions, means operated synchronously with said transmitting sweep generating means for energizing said beam deflecting means to produce cathode beam sweeps, means operated synchronously with said coupling means to change from one of said centering means to the other centering means and to alternately and synchronously apply said azimuth and elevation angle voltage to said sweep generating means, to thereby obtain alternate azimuth and elevation displays which are each expanded with reference to the space scanned respectively by said azimuth and elevation antenna beams, said cathode ray tube having an intensity controlling electrode, a single timing multivibrator circuit producing gating voltage pulses in time relationship with triggering of said transmitting means, means alternately

coupling said azimuth and elevation angle voltages to said timing multivibrator circuit, said timing multivibrator circuit incorporating means for terminating each gating voltage pulse produced thereby at a time determined by the magnitude of said azimuth or elevation angle voltage, as the case may be, a blanking gate generator coupled to said timing multivibrator circuit and functioning to initiate blanking voltages in accordance with the trailing edge of said gating voltage pulses, and means applying said blanking voltages to said intensity controlling electrode.

2,663,869
HELICAL ANTENNA SCANNING SYSTEM
Mack Donald Adcock and Arthur E. Marston, Washington, D. C.
Application July 7, 1950, Serial No. 172,582
4 Claims. (Cl. 343—100)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A helical antenna scanning system comprising: a plurality of similar helical elements, the longitudinal axes of said helical elements being laterally displaced and positioned in mutual parallelism and means for continuously rotating at least one of said elements about its longitudinal axis to continuously vary the relative turn orientation of said helical elements about said axes



thereby reciprocally broadening and narrowing the area of coverage of said helical antenna.

DESIGNS

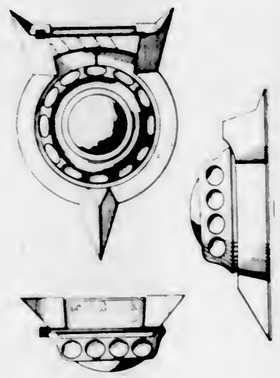
DECEMBER 22, 1953

171,116
CHAIR
Joseph E. Adkinson, York, Pa., assignor to Thonet Industries, Inc., New York, N. Y., a corporation of Delaware
Application May 21, 1953, Serial No. 25,162
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a chair, as shown.

171,117
CONCEALED DIAL FOR A COMBINATION LOCK
Herbert G. Ball, Media, Pa.
Application August 4, 1953, Serial No. 26,264
Term of patent 7 years
(Cl. D50—7)



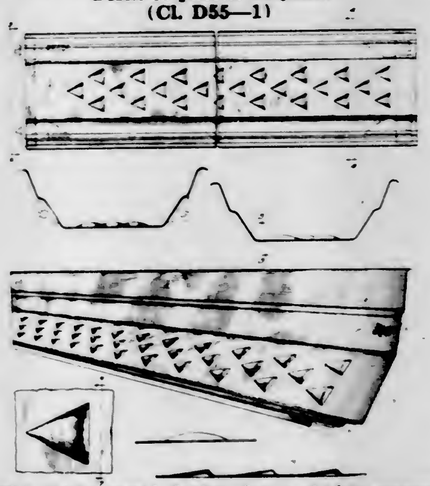
The ornamental design for a concealed dial for a combination lock, as shown.

171,118
PITCHER
Helen L. Basore, Pasadena, Calif., assignor to Preston-Poynter Foundation, Pasadena, Calif., a corporation of California
Application June 26, 1953, Serial No. 25,681
Term of patent 7 years
(Cl. D44—21)



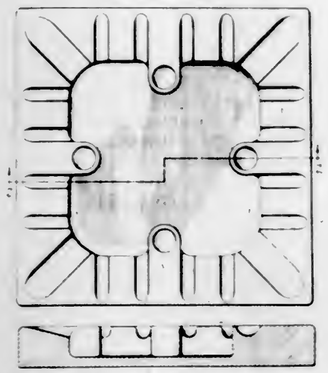
The ornamental design for a pitcher, substantially as shown.

171,119
SHAKER CONVEYER TROUGH
Ernst R. Bergmann, Evergreen Park, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 13, 1952, Serial No. 18,878
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a shaker conveyer trough, as shown and described.

171,120
ASH TRAY OR SIMILAR ARTICLE
Elmer Marvin Capouch, Cicero, Ill.
Application June 9, 1953, Serial No. 25,395
Term of patent 14 years
(Cl. D85—2)



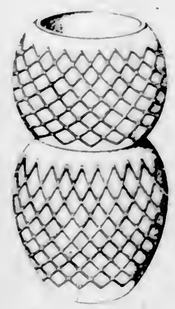
The ornamental design for an ash tray or similar article, substantially as shown.

171,121
LINK CHAIN FOR A NECKLACE OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application June 5, 1953, Serial No. 25,351
Term of patent 14 years
(Cl. D45—16)



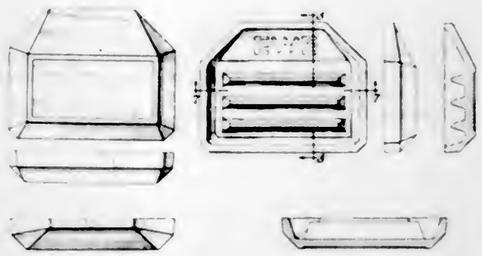
The ornamental design for a link chain for a necklace or similar article, substantially as shown.

171,122
ICE CREAM CUP
Madeleine L. Conlin, Locust Valley, N. Y.
Application September 28, 1953, Serial No. 26,970
Term of patent 7 years
(Cl. D8—1)



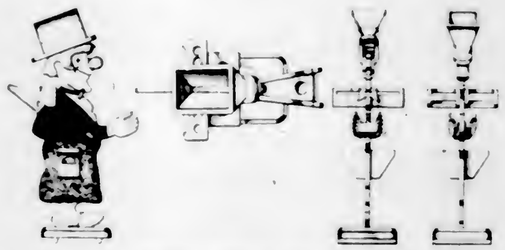
The ornamental design for an ice cream cup, substantially as shown and described.

171,123
ASH TRAY
Ernest W. Ekstrand, Orange, N. J.
Application July 24, 1953, Serial No. 26,126
Term of patent 14 years
(Cl. D85—2)



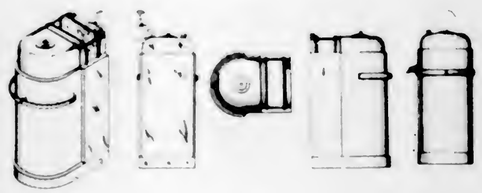
The ornamental design for an ash tray, substantially as shown and described.

171,124
SERVICE WAGON
Albert O. Estrada, Larkspur, Calif.
Application February 12, 1953, Serial No. 23,586
Term of patent 14 years
(Cl. D14—3)



The ornamental design for a service wagon, as shown.

171,125
CABINET FOR LUBRICATING EQUIPMENT
Alexander P. Fox, University City, and August D. Reisert, Bel-Nor, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application May 14, 1953, Serial No. 25,003
Term of patent 7 years
(Cl. D52—2)



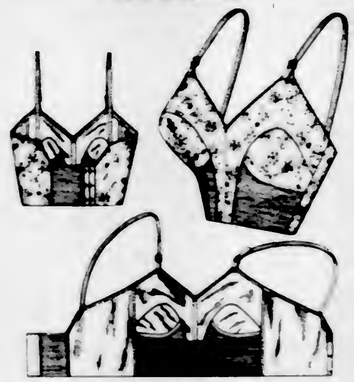
The ornamental design for a cabinet for lubricating equipment, substantially as shown and described.

171,126
PENCIL SHARPENER
Gilbert N. Fryer, Glendora, Calif.
Application December 16, 1952, Serial No. 22,731
Term of patent 14 years
(Cl. D74—21)



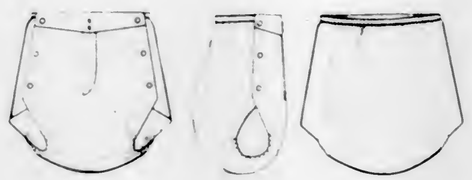
The ornamental design for a pencil sharpener, as shown and described.

171,127
BRASSIÈRE
Irving Gimble and Daniel Musano, New York, N. Y.
Application July 10, 1953, Serial No. 25,875
Term of patent 3½ years
(Cl. D20—4)



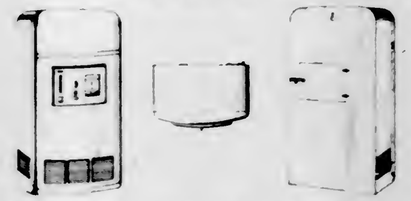
The ornamental design for a brassière, substantially as shown and described.

171,128
DIAPER COVER OR THE LIKE
William H. Goldstein, Atlanta, Ga.
Application March 11, 1953, Serial No. 23,994
Term of patent 14 years
(Cl. D3—17)



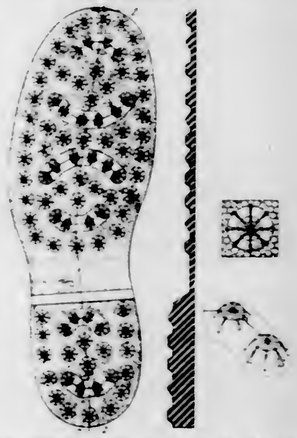
The ornamental design for a diaper cover or the like, as shown.

171,129
CALENDAR
James P. Goodson, Childress, Tex.
Application June 19, 1953, Serial No. 25,580
Term of patent 3½ years
(Cl. D74—5)



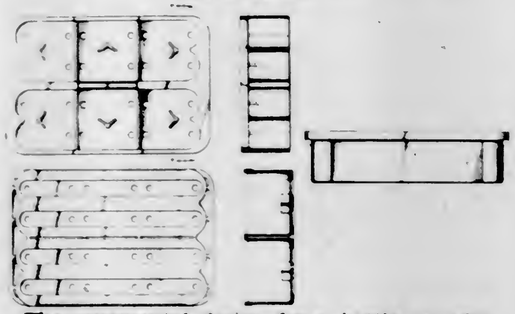
The ornamental design for a calendar, as shown.

171,130
SHOE SOLE
William J. Gruner, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 17, 1951, Serial No. 17,760
Term of patent 14 years
(Cl. D7—5)



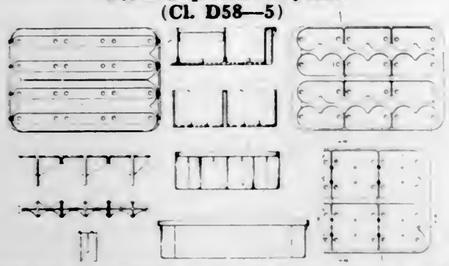
The ornamental design for a shoe sole, as shown and described.

171,131
BOTTLE CARRYING CASE
Kenneth K. Hudson, Tampa, Fla.
Application January 2, 1953, Serial No. 22,995
Term of patent 14 years
(Cl. D58—4)



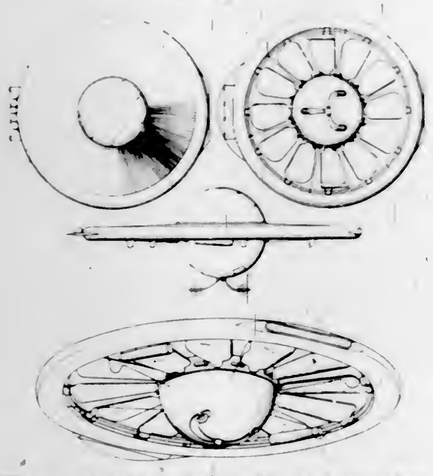
The ornamental design for a bottle carrying case, as shown.

171,132
CARRYING CASE FOR BOTTLES
Kenneth K. Hudson, Tampa, Fla.
Application January 2, 1953, Serial No. 22,996
Term of patent 14 years
(Cl. D58—5)



The ornamental design for a carrying case for bottles, as shown.

171,133
HELICOPTER
Charles E. Jay, Long Beach, Calif.
Application March 28, 1952, Serial No. 19,088
Term of patent 14 years
(Cl. D71—1)



The ornamental design for a helicopter, as shown.

171,134
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,725
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,135
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,728
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,136
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,730
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,137
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 30, 1953, Serial No. 25,732
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,138
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,992
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,139
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,993
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,140
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1953, Serial No. 25,994
Term of patent 7 years
(Cl. D45—19)



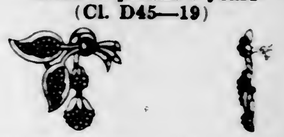
The ornamental design for a brooch or the like, substantially as shown.

171,141
EARRING OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 22, 1953, Serial No. 26,086
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,142
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 3, 1953, Serial No. 26,221
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,143
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,281
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,144
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 5, 1953, Serial No. 26,289
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

EARRING OR THE LIKE

171,145

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 6, 1953, Serial No. 26,303

Term of patent 7 years

(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,146

EARRING OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 6, 1953, Serial No. 26,306

Term of patent 7 years

(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,147

BROOCH OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 6, 1953, Serial No. 26,308

Term of patent 7 years

(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,148

EARRING OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 6, 1953, Serial No. 26,309

Term of patent 7 years

(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

171,149

BROOCH OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 6, 1953, Serial No. 26,312

Term of patent 7 years

(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,150

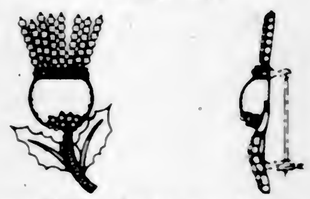
BROOCH OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 6, 1953, Serial No. 26,318

Term of patent 7 years

(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

171,151

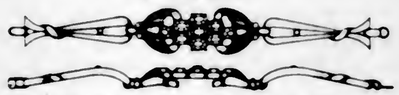
BRACELET OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 10, 1953, Serial No. 26,376

Term of patent 7 years

(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

171,152

BRACELET OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 10, 1953, Serial No. 26,377

Term of patent 7 years

(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

171,153

LINK CHAIN FOR A NECKLACE OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 10, 1953, Serial No. 26,382

Term of patent 7 years

(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

171,154

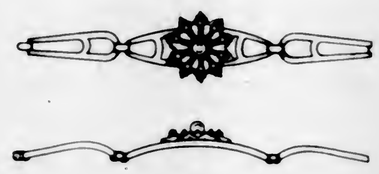
BRACELET OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 17, 1953, Serial No. 26,465

Term of patent 7 years

(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

171,155

NECKLACE OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 17, 1953, Serial No. 26,466

Term of patent 7 years

(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

171,156

LINK CHAIN FOR A BRACELET OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 17, 1953, Serial No. 26,468

Term of patent 7 years

(Cl. D45—4)



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

171,157

NECKLACE OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 17, 1953, Serial No. 26,469

Term of patent 7 years

(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

171,158

BRACELET OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York

Application August 17, 1953, Serial No. 26,471

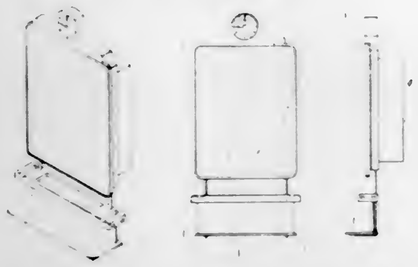
Term of patent 7 years

(Cl. D45—4)



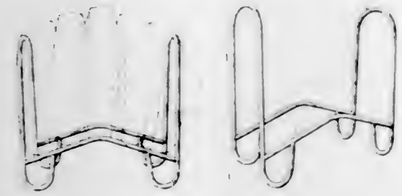
The ornamental design for a bracelet or the like, substantially as shown.

171,159
MEDICINE CABINET
Frank E. Knight, Saginaw, Mich.
Application September 26, 1952, Serial No. 21,602
Term of patent 14 years
(Cl. D4—3)



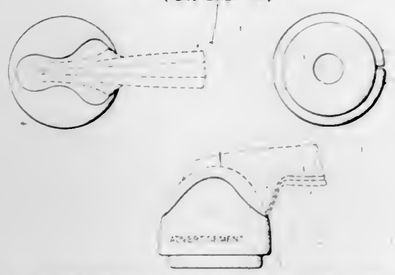
The ornamental design for a medicine cabinet, as shown.

171,160
TIRE RACK
Clay D. Lampman, Cuyahoga Falls, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application April 11, 1952, Serial No. 19,289
Term of patent 14 years
(Cl. D80—10)



The ornamental design for a tire rack, as shown and described.

171,161
COMBINED DISPLAY AND PROTECTIVE DEVICE FOR A TELEPHONE RECEIVER OR SIMILAR ARTICLE
Le Roy E. Larabell, Detroit, Mich.
Application December 4, 1951, Serial No. 17,605
Term of patent 14 years
(Cl. D1—2)



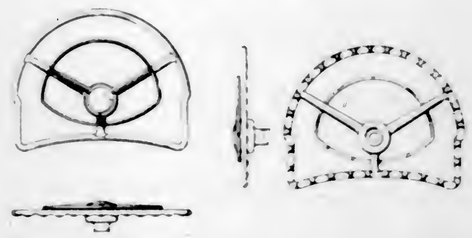
The ornamental design for a combined display and protective device for a telephone receiver or similar article, substantially as shown and described.

171,162
WHEEL COVER OR SIMILAR ARTICLE
George Albert Lyon, Detroit, Mich.
Application January 19, 1953, Serial No. 23,185
Term of patent 14 years
(Cl. D14—30)



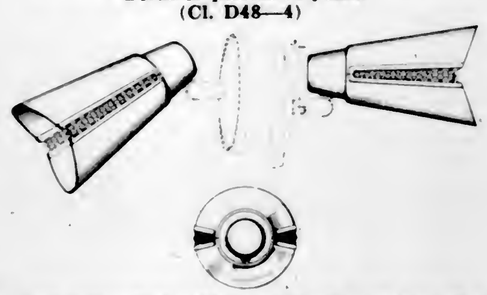
The ornamental design for a wheel cover or similar article, substantially as shown and described.

171,163
COMBINED VEHICLE STEERING WHEEL AND HORN RING
John T. McCreary, Chicago, Ill.
Application October 2, 1953, Serial No. 27,066
Term of patent 14 years
(Cl. D14—30)



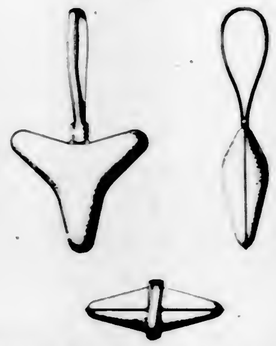
The ornamental design for a combined vehicle steering wheel and horn ring, as shown.

171,164
LIGHTING FIXTURE OR SIMILAR ARTICLE
Jack Morgan, Chicago, Ill., assignor to Industrial Lamp Corporation, Elkhart, Ind., a corporation of Illinois
Application April 23, 1953, Serial No. 24,637
Term of patent 14 years
(Cl. D48—4)



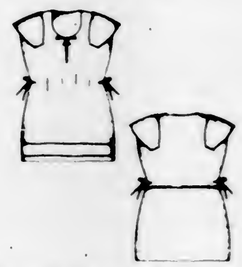
The ornamental design for a lighting fixture or similar article, substantially as shown and described.

171,165
TEETHING AID
Marshall F. Newmark, Spring Valley, Calif., assignor to Progressive Products, Inc., La Mesa, Calif., a corporation of California
Application May 26, 1952, Serial No. 19,895
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a teething aid, substantially as shown.

171,166
APRON
Winifred P. Odom, Cambridge City, Ind.
Application January 23, 1953, Serial No. 23,280
Term of patent 14 years
(Cl. D3—26)



The ornamental design for an apron, substantially as shown.

171,167
COMBINATION TOOL
Emil S. Polk, New York, N. Y.
Application May 10, 1952, Serial No. 19,659
Term of patent 14 years
(Cl. D54—13)



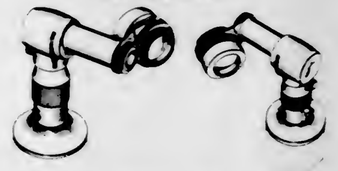
The ornamental design for a combination tool, as shown.

171,168
SANDWICH DISH
Lyall Mellor Ross, Balwyn, Victoria, Australia
Application March 17, 1953, Serial No. 24,066
Term of patent 14 years
(Cl. D44—15)



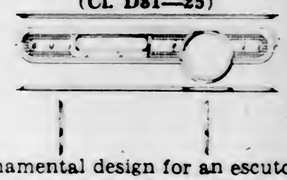
The ornamental design for a sandwich dish, as shown.

171,169
DIAGNOSTIC INSTRUMENT HEAD
Raymond F. E. Stegeman, Greeee, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application June 15, 1953, Serial No. 25,478
Term of patent 14 years
(Cl. D57—1)



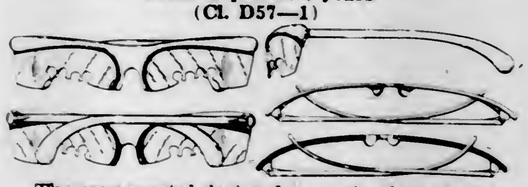
The ornamental design for a diagnostic instrument head, substantially as shown and described.

171,170
ESCUTCHEON PLATE FOR A STOVE OR RANGE
Jack B. Stuman, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application January 15, 1953, Serial No. 23,158
Term of patent 7 years
(Cl. D81—25)



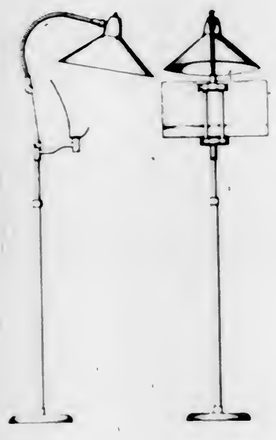
The ornamental design for an escutcheon plate for a stove or range, substantially as shown and described.

171,171
PAIR OF SPECTACLES
Arthur R. Suma, Sr., Chicago, Ill.
Application August 14, 1953, Serial No. 26,454
Term of patent 7 years
(Cl. D57—1)



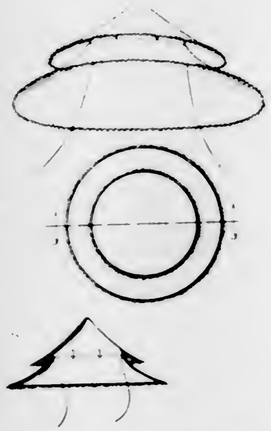
The ornamental design for a pair of spectacles, substantially as shown.

171,172
COMBINED FLOOR LAMP AND BOOK SUPPORT
Hilda Swede, Bronx, N. Y., assignor to Sterling Studios Inc., New York, N. Y., a corporation of New York
Application June 8, 1953, Serial No. 25,370
Term of patent 14 years
(Cl. D48—20)



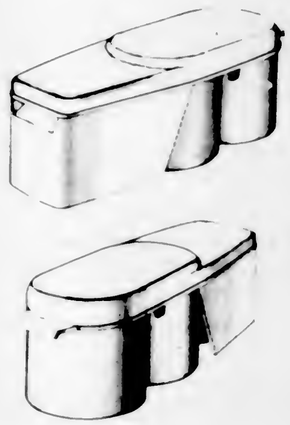
The ornamental design for a combined floor lamp and book support, as shown.

171,173
HAT
Mildred M. Tapley, Wellesley Hills, Mass.
Application April 15, 1952, Serial No. 19,324
Term of patent 7 years
(Cl. D3—13)



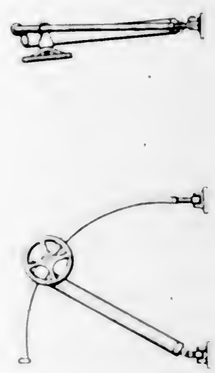
The ornamental design for a hat, as shown.

171,174
REFRIGERATOR-TYPE ICE-CREAM FREEZER
James Teague, Chicago, Ill., assignor to White Magic Freezer Company, a corporation of Illinois
Application February 16, 1953, Serial No. 23,622
Term of patent 14 years
(Cl. D67—2)



The ornamental design for a refrigerator-type ice cream freezer, substantially as shown.

171,175
FISHING OUTRIGGER
Paul D. Wells, Oakland, Calif.
Application November 15, 1952, Serial No. 22,300
Term of patent 14 years
(Cl. D71—1)



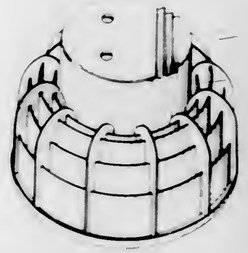
The ornamental design for a fishing outrigger, substantially as shown.

171,176
CHAIR
Maxwell Yellen, West New York, N. J.
Application January 2, 1953, Serial No. 22,965
Term of patent 14 years
(Cl. D15—8)



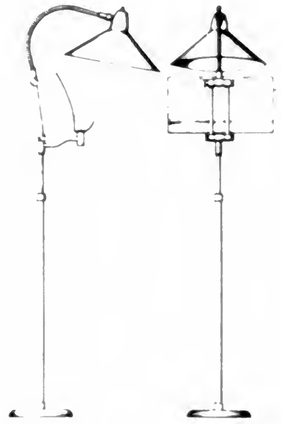
The ornamental design for a chair, as shown.

171,177
DEODORIZER
Louis P. Zelenka, Mount Lebanon, Pa., assignor to Commonwealth Sanitation Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 12, 1953, Serial No. 25,463
Term of patent 14 years
(Cl. D16—2)



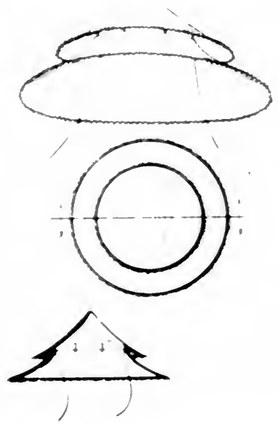
The ornamental design for a deodorizer, as shown and described.

171,172
COMBINED FLOOR LAMP AND BOOK SUPPORT
Hilda Swede, Bronx, N. Y., assignor to Sterling Studios Inc., New York, N. Y., a corporation of New York
Application June 8, 1953, Serial No. 25,370
Term of patent 14 years
(Cl. D48—20)



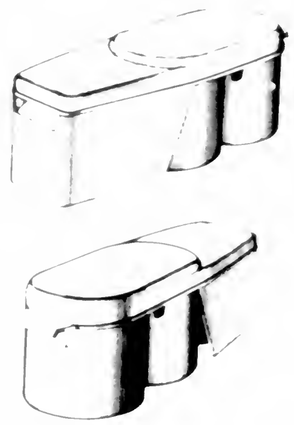
The ornamental design for a combined floor lamp and book support, as shown.

171,173
HAT
Mildred M. Tapley, Wellesley Hills, Mass.
Application April 15, 1952, Serial No. 19,324
Term of patent 7 years
(Cl. D3—13)



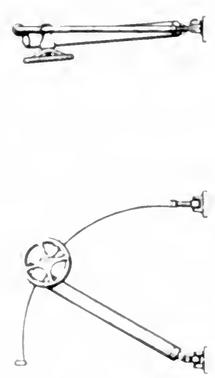
The ornamental design for a hat, as shown.

171,174
REFRIGERATOR-TYPE ICE-CREAM FREEZER
James Teague, Chicago, Ill., assignor to White Magic Freezer Company, a corporation of Illinois
Application February 16, 1953, Serial No. 23,622
Term of patent 14 years
(Cl. D67—2)



The ornamental design for a refrigerator-type ice cream freezer, substantially as shown.

171,175
FISHING OUTRIGGER
Paul D. Wells, Oakland, Calif.
Application November 15, 1952, Serial No. 22,300
Term of patent 14 years
(Cl. D71—1)



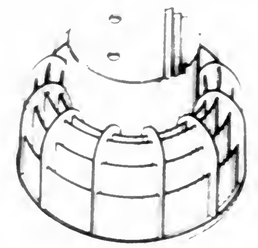
The ornamental design for a fishing outrigger, substantially as shown.

171,176
CHAIR
Maxwell Yellen, West New York, N. J.
Application January 2, 1953, Serial No. 22,965
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a chair, as shown

171,177
DEODORIZER
Louis P. Zelenka, Mount Lebanon, Pa., assignor to Commonwealth Sanitation Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 12, 1953, Serial No. 25,463
Term of patent 14 years
(Cl. D16—2)



The ornamental design for a deodorizer, as shown and described.

December 29, 1953 Volume 677 Number 5

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

Condition of Applications Under Examination at Close of Business December 11, 1953

Total number of patent applications awaiting action, 105,239. Date of oldest new application, February 2, 1953; date of oldest amended application, February 12, 1953.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) BLUM, A. (Acting)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	3-18-53	3-18-53	1385
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	3-19-53	3-20-53	1251
3. LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus) Heating; Coating or Plastic Composition (part).	4-9-53	4-7-53	2001
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	3-20-53	3-20-53	1548
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	3-20-53	3-20-53	1388
6. SURLE, H., Carbon Chemistry (part)	2-12-53	2-16-53	2147
7. GONSALVES, J. E., Optics; Photography (part)	3-2-53	3-3-53	1890
8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	4-14-53	4-12-53	1441
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	3-16-53	3-11-53	1239
10. Abolished as of November 16, 1953. See Commissioner's Administrative Order No. 45.			
11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	4-3-53	4-6-53	1243
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	3-19-53	3-16-53	1840
13. BEALL, T. E., Gear Cutting, Milling, Planting; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	3-17-53	3-4-53	1273
14. MANIAN, J. C., Fluid Pressure Brake; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus.	3-27-53	3-30-53	1490
15. BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	3-18-53	3-16-53	1758
16. LOVEWELL, N. N., Television; Telephony; Recorders	2-18-53	2-19-53	1810
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	3-13-53	3-13-53	1457
18. KURZ, J. A., Power Plants; Speed Responsive Devices	3-18-53	3-3-53	1401
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	2-27-53	2-16-53	1106
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	4-13-53	4-13-53	1231
21. MADER, R. C., Textiles	3-16-53	3-19-53	1266
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	3-30-53	3-30-53	1175
23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education	3-4-53	3-2-53	1033
24. DRACOPOULOS, P. T., (HICKEY, T. J. Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	5-20-53	5-20-53	1037
25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	3-9-53	3-9-53	1459
26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators.	3-27-53	3-27-53	1951
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	4-7-53	4-2-53	1278
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	4-2-53	4-2-53	1411
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	3-23-53	3-24-53	1323
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	5-25-53	5-25-53	1475
31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	3-11-53	3-10-53	1859
32. BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems.	4-13-53	4-6-53	1410
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	3-16-53	3-10-53	2020
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements.	2-27-53	2-24-53	1326
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	3-25-53	3-24-53	1440
36. McFADYEN, A. D., Measuring and Testing	3-30-53	4-2-53	1073
37. LEVY, M. L., Electricity-Switches, Welding, Heating	4-8-53	4-13-53	1736
38. MARMELSTEIN, N., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	3-9-53	3-9-53	2056
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	4-20-53	4-20-53	1571
40. DRUMMOND, E. J., Receptacles (part); Packages	4-13-53	4-10-53	2143
41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	4-3-53	4-3-53	1745

*Commissioner's Examiners' Division.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors.	3-11-53	3-11-53	1729
43. ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-9-53	3-10-53	1954
44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316).			
45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	3-25-53	3-26-53	1305
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	3-9-53	3-4-53	1195
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	3-27-53	3-25-53	1574
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	3-2-53	3-3-53	1821
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	3-23-53	3-23-53	1455
50. BENGEL, W. G., Synthetic Resins; Rubber	5-11-53	5-11-53	2038
51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics.	3-26-53	3-25-53	1566
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	4-21-53	4-15-53	1957
53. REYNOLDS, E. R., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	3-24-53	3-27-53	1619
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications.	3-12-53	3-25-53	1920
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	2-20-53	2-18-53	1665
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification	4-27-53	4-23-53	1379
57. MILLER, A. B., (DURHAM, B. G. Acting), Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	4-13-53	4-1-53	1766
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	3-13-53	3-12-53	1370
59. HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-18-53	3-18-53	1531
60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994).			
61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-4-53	5-12-53	917
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	4-8-53	4-6-53	1854
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	3-4-53	3-9-53	2030
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	3-30-53	3-27-53	1776
65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316).			
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	4-6-53	4-6-53	1086
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	3-31-53	4-7-53	1660
68. Abolished as of November 2, 1953. See Commissioner's Administrative Order No. 44			
69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording	3-18-53	3-18-53	1650
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	2-2-53	2-12-53	3660
DESIGNS: A—BREHM, G. L., Industrial Arts	7-2-53	6-29-53	1172
DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts	7-22-53	8-14-53	902

Number of new applications received week ending November 20, 1953

PATENTS 1,455 DESIGNS 104 REISSUES 2 TOTAL 1,561

Total number of trade-mark applications awaiting action (including renewals and republications), 12,153.
Date of oldest new application, July 9, 1953; date of oldest amended application, July 9, 1953.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	7-12-53	7-12-53	2989
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36	7-9-53	7-9-53	3018
Renewals (All Classes)	10-9-53	11-11-53	402
Republications (All Classes)	10-8-53	11-13-53	285
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49	7-16-53	7-13-53	2693
IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	7-11-53	7-11-53	2816

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ANKNEY

No. 5985. Decided June 17, 1953

[204 F.2d 957; 98 USPQ 221]

PATENTABILITY—PARTICULAR SUBJECT MATTER—ROTARY HOLDER FOR POLISHERS.

Certain claims to a rotary holder for polishing material *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from the Patent Office. Serial No. 77,865.

AFFIRMED.

Slough and Slough (*Frank M. Slough* and *J. Helen Slough* of counsel) for appellant.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner finally rejecting all of the claims 1, 2, and 7 of an application for Rotary Holders, Serial No. 77,865, filed February 23, 1949, as unpatentable over the prior art reading as follows: Coney, 987,959, March 28, 1911; Chott, 1,483,158, February 12, 1924; Prather, 1,520,596, December 23, 1924.

The involved claims read as follows:

1. A working material holder having a substantially solid head portion, and a socket portion, substantially solid compressible material adapted to be tightly inserted within said socket and to protrude therefrom, a stem inserted within the head portion and rigidly secured thereto a spaced distance from said socket portion.

2. A die polishing tool or the like including a substantially solid thermal-plastic head portion, a thermal-plastic socket portion integrally secured to said head portion, compressible material adapted to be wedgingly inserted within said socket, a portion of said material protruding therefrom, a stem adapted to be rigidly retained within the said head portion, said socket portion and said material having die polishing surfaces.

7. A rotary holder having a substantially solid head portion, a stem integrally united to said head portion and projecting upwardly therefrom, a tubular portion integrally secured to said solid head portion, a plug of substantially solid compressible material adapted to be rigidly secured within said tubular portion and to protrude outwardly therefrom, said material being securely retained within said tubular portion during rotation of said rotary holder and to be manually removed therefrom when said holder is not in operative use.

As may be observed from a reading of the claims, the alleged invention is for a device comprising a holder, a plug for polishing material frictionally held within a socket, the holder being made of thermoplastic material to guard against the scarring of work when the polishing means is broken or worn so that part of the holder would be exposed. The metal stem is integrally attached to the holder, its lower end being spaced from the inner face of the socket so that the stem will not be pushed through the polishing plug and scar the work piece.

The Chott reference relates to a teeth-cleaning instrument. The patent discloses the instrument as adapted for attachment to the ordinary flexible shaft used in a dentist's engine. The instrument comprises a metallic holder for an abrasive carrying member, the holder having a head, a socket, and a stem fitted into the bore.

The Coney patent relates to a reinforcing extension chuck for use in polishing devices. There is disclosed a polishing element holder comprising a socket which is screw-threaded to a member with a small socket for insertion into a driving stem. A threaded tapered member is used to secure the element holder into the socket.

The Prather patent relates to an improvement in polishing tools and is directed to a holder for polishers, such as rag, chamois, or steel wool, and is adapted for use in a hand drill. The driving stem of the apparatus is in integral form with the plate frictionally held in a socket. A perforated plate cooperates with the frictionally held plate and the sides of the socket which hold the steel wool or other polishing means to the holder.

All of the claims were rejected as defining nothing patentable over any one of the references. It is clear that each of the cited patents discloses an abrading or polishing tool which comprises a rotatable support member upon which a socket member is mounted and a polishing element which is mounted in the socket member.

The Examiner said in his statement that no invention could be seen in the mounting support of the devices in any of the cited prior art so that the supports do not enter into the supporting socket for the polishing material. In the opinion of the Examiner, that expedient involved nothing more than a matter of choice involving ordinary mechanical skill.

The Board in its decision was of opinion that an inspection of the Chott reference shows that it anticipates the structure as defined in claim 1, and that the structure in claim 2 differs from that disclosed in the Chott device only in that in the claim

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it is set out that the head portion and socket are made from a substantially solid thermoplastic material.

With respect to claim 7, it was held by the Board to differ from the Chott disclosure in that it defines that a plug of substantially solid compressible material is securely retained in the tubular portion of the head and which could be removable by hand. It is true that in the Chott device a plug is not disclosed as the polishing element. That element is made of a solid compressible material and is removable by hand.

We are in agreement with the tribunals below that in view of the fact that thermoplastic materials, their properties and characteristics, are well known and used extensively to substitute for metal in many arts, the selection would merely involve a question of choice.

We agree, as was held below, that the form and type of material used in forming a polishing element depends greatly upon the type of work to be polished. Surely it is well within the skill of the ordinary mechanic of the art to select the proper material as polishing means for particular work.

It is our conclusion that the claims define nothing that cannot be created by the mechanical ingenuity of the average person skilled in the art, in view of the references or any one of them.

The decision of the Board of Appeals is affirmed.

AFFIRMED.

JACKSON, *J.*, retired, recalled to participate herein in place of GARRETT, *Chief Judge*.

U. S. Court of Customs and Patent Appeals

IN RE SYLVAN SWEETS CO.

No. 5984. Decided June 17, 1953

[205 F.2d 207; 98 USPQ 220.]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—SIMILAR MARKS ON CANDY CIGARETTES AND TOBACCO CIGARETTES.

   Although candy cigarettes and tobacco cigarettes differ in ingredients, mode of manufacture, tax liability, mode of distribution, sales appeal, price, class of purchasers, restrictions as to sale, physical reactions in use as to manner of use, taste, smell and effect on others, *Held* that "none of these factors would necessarily lead purchasers to conclude that the goods differed in origin in view of the great similarity of the marks and the manner in which they are used on the packages containing the goods of the parties."

2. SAME—SAME—"LUCKY CAMEL" AND "CAMEL."

   The decision of the Examiner-in-Chief affirming the Examiner's action in refusing to register "Lucky Camel" as applied to candy cigarettes, in view of prior registrations of the mark "Camel" on tobacco cigarettes, is affirmed.

APPEAL from Patent Office. Serial No. 596,958.

AFFIRMED.

Z. T. Wobensmith, 2nd, for appellant.

E. L. Reynolds (*S. Wm Cochran* of counsel) for the Commissioner of Patents.

JOHNSON, *J.*:

The record discloses that on May 5, 1950, appellant filed an application in the Patent Office in accordance with the provisions of the Trade-Mark Act of July 5, 1946, to register the trade-mark "Lucky Camel" for candy cigarettes. It was alleged that the mark had been continuously used by appellant on the goods specified and in commerce among the several States of the United States since April 19, 1950.

The Examiner refused registration of appellant's mark in view of Registration No. 126,760, registered September 30, 1919, which was renewed on September 30, 1939, and Registration No. 222,446, registered January 4, 1927, which was renewed on January 4, 1947, to the R. J. Reynolds Tobacco Company for use on smoking tobacco and cigarettes. The trade-mark in Registration No. 126,760 consists of the word "Camel" and Registration No. 222,446 consists of the word "Camel" in association with a design, namely, the representation of a camel and desert scenery.

It was the Examiner's opinion that the word "Camel" is the dominant feature of the involved marks and that the addition of the word "Lucky" to appellant's mark does not serve to distinguish between appellant's mark and the marks shown in the cited registrations. The Examiner noted that the word "Camel" in appellant's mark is presented in letters which are at least twice as large and conspicuous as the letters comprising the word "Lucky," and that the word "Camel" is presented in exactly the same style and type of lettering as that of the word "Camel" in Registration No. 222,446, and that the word "Camel" is presented in a much more fanciful and distinctive style than the word "Lucky."

The Examiner also noted that an inspection of the specimens submitted as evidence of use shows that appellant has reproduced the registrant's word "Camel" in precise size, position, and style of lettering and has copied the front panel design shown in Registration No. 222,446 and applied it to cartons similar in size and shape to the conventional cigarette package, and he held that use of appellant's mark would be likely to cause confusion or mistake or to deceive purchasers when applied to appellant's merchandise.

In his decision the Examiner-in-Chief stated:

> What applicant sells is an imitation package of Camel cigarettes and in this sense it might be considered somewhat analogous to a literary parody imitating the style and mannerisms of a noted author rather than a counterfeit. The packages are sold to children who consume them imitating their elders smoking cigarettes. It is not believed that any feature of the thing thus imitated can in any way be considered as a part of applicant's trade-mark and for this reason it is believed that the registration should be refused.

We think the specimens submitted as evidence of use, which are appellant's packages containing the candy cigarettes, are a palpable imitation of Registration No. 222,446 in every respect, except for appellant's inclusion of the word "Lucky" which is directly above the word "Camel" and in much smaller type. In appellant's brief it is stated:

> The "Camel" portion and the display apart from the "Lucky" portion resemble the second mark and display of the second registration cited.

The second registration referred to is No. 222,446. Apparently it was appellant's intention to simulate all the characteristic features of a mark already in use; to burlesque a Camel cigarette package.

Under the Trade-Mark Act of 1946 in order to qualify as a "trade-mark" entitled to registration a notation or device must be of such character and be so used as to identify the goods of a certain manufacturer or merchant and distinguish them from those manufactured or sold by others.

[1] Appellant contends that because its goods are candy, having "different ingredients, mode of manufacture, tax liability, mode of distribution, sales appeal, price, class of purchasers, restrictions as to sale, physical reactions in use as to manner of use, taste, smell, and effect on others, and in all substantial respects differ from tobacco products and particularly tobacco cigarettes" that there is an expected difference of source of origin. However, none of these factors would necessarily lead purchasers to conclude that the goods differed in origin in view of the great similarity of the marks and the manner in which they are used on the packages containing the goods of the parties.

Appellant cites our decisions in *The Alligator Company* v. *Larus & Brother Company, Inc.*, 39 CCPA (Patents) 939, 196 F.2d 532, 93 USPQ 436 and *The Pep Boys—Manny, Moe and Jack* v. *The Edwin F. Guth Co.*, 39 CCPA (Patents) 1015, 197 F.2d 527, 94 USPQ 158, as sustaining its contentions. In those cases we discussed the change in statutory language contained in the Trade-Mark Act of 1946 and stated, in effect, that under the 1946 statute, while it is no longer necessary to establish that the goods of the parties possess the same descriptive properties, as previously required under the Trade-Mark Act of 1905, registration of a trade-mark should be refused in cases where there is a likelihood of confusion, mistake, or deception, even though the goods fall into different categories, while presumably permitting registration in the case of goods which fall within the same general class, but where it is apparent that confusion is unlikely, and that the ultimate test under the new act is the likelihood of confusion, or mistake, or the deception of purchasers.

We have given careful consideration to the brief on behalf of appellant and to the argument of counsel but do not find error in the decision of the Examiner-in-Chief.

The decision appealed from is affirmed.

AFFIRMED.

JACKSON, *J.*, retired, recalled to participate herein in place of GARRETT, *C. J.*

U. S. Court of Customs and Patent Appeals

IN RE ADA MILLING CO.

No. 5969. Decided June 24, 1953.

[205 F.2d 315; 98 USPQ 267]

1. TRADE-MARKS — DESCRIPTIVENESS — "STARTGROLAY" HELD NOT DESCRIPTIVE OF POULTRY FEED.

   Held that the mark, "Startgrolay", when viewed in its entirety, is suggestive but not necessarily descriptive of poultry feed, to which it is applied.

2. SAME—CONFUSION OF THE PUBLIC—"STARTGROLAY" AND "LAY-AN-GROW".

   Held that "Startgrolay" and, "Lay-An-Grow," when viewed in their entirety, reflect no such simularity as to be likely to cause confusion as to origin of the respective goods.

APPEAL from Patent Office. Serial No. 581,513.

REVERSED.

Harvey B. Jacobson (*John H. Lewis, Jr.* of counsel) for appellant.

E. L. Reynolds (*Clarence W. Moore* of counsel) for the Commissioner of Patents.

WORLEY, *J.*:

This is an appeal from the decision of the Commissioner of Patents in a trade-mark proceeding, affirming the decision of the Examiner of Trade-Marks in refusing registration under Section 2 of the Lanham Act (Trade-Mark Act of 1946) of the mark "Startgrolay" for use on "Poultry Feed, Consisting of Wheat Shorts, Salt Calcium Carbonate, Soybean Grits, Soybean Meal, Meat and Bone Meal, Ground Kaffir, Milo Maze, and Yellow Corn."

The application, Serial No. 581,513, filed July 5, 1949, was refused registration on the Principal Register by the tribunals of the Patent Office on two grounds, viz, that the mark "Startgrolay" was generally descriptive of the goods on which it is used and not capable of distinguishing the appellant's goods, and that it was confusingly similar to the registered mark "Lay-an-Grow," Registration No. 360,713, issued September 20, 1938, for use on poultry feed.

In denying registration on the first ground of rejection, the Examiner-in-Chief stated:

> • • • the mark is generally descriptive of the goods and not capable of distinguishing applicant's goods. The term "Startgrolay" is a combination of the words "start," "grow," phonetically spelled, and "lay." These words, in adjectival form, are commonly used to indicate various types of feed used in the raising of poultry. As applied to applicant's goods, the mark merely indicates that the feed in connection with which it is used is intended for or claimed to be a starting feed, a growing feed, and a laying feed. The applicant does not appear to deny the Examiner's statement that starting, growing, and laying are commonly used to indicate various kinds of feeds • • •

The second ground of rejection by the Examiner was also sustained on the theory that "applicant's mark incorporates the dominant parts of the reference mark and is considered unregistrable thereover, • • •."

While appellant admits that the words "starting," "growing," and "laying" are generically descriptive of certain types of poultry foods, it takes the position that the dropping of the suffix "ing" from each of those words and compounding the roots thereof creates a coined unitary technical trade-mark suf-

ficient to remove the notation "Startgrolay" from the category of generically descriptive terms; that the result is not a mere combination of descriptive words but a combination which deviates from the common use of words and parts of words sufficiently to constitute a coined technical trade-mark eligible for registration under the above provisions.

In support thereof, appellant cites the following excerpt from *Ex parte Barker*, 92 USPQ 218, wherein the mark "Cherry-Berry-Bing," as applied to fruit and berry preserves, was held not to be generic to those goods:

> While it may be true that each of the individual words in the present applicant's mark are generic and thus independently unregistrable, it seems to me that their unusual association or arrangement in the applicant's mark results in a unique and catchy expression which does not, without some analysis and rearrangement of its components, suggest the contents of applicant's goods. I am constrained to disagree with the Examiner's holding in the present case that the applicant's mark is incapable of functioning as a trade-mark to distinguish the applicant's goods in commerce.

Appellant also sets out in its brief the following quotation from the decision of the Circuit Court of Appeals of the First Circuit decided in 1949 in *Food Fair Stores, Inc.* v. *Food Fair, Inc.* (83 USPQ 15):

> The defendant's further contention that the words "Food Fair" are not susceptible of appropriation because they are generic deserves only slightly more extended consideration. It is true that both words involved are generic. But, as we have had occasion to observe before, a trade-mark is not to be resolved into its component parts, and each part analyzed separately in cases of this sort. *Pro-Phy-Lac-Tic Brush Co.* v. *Jordan Marsh Co.*, 165 F.2d 549; 76 USPQ 146. Considered together, the words involved may be relatively weak, but we do not think that they are by any means too weak to deserve the protection given them by the Court below.

as well as the following from the case of *Vita-Var Corporation* v. *Alumatone Corporation*, which involved the marks "Alumikote" and "Alumatone," decided by the District Court S. D. California Central Division in 1949 (81 USPQ 331):

> At the same time, I am of the view that plaintiff's mark ("alumikote") is not a mere combination of descriptive words, but a combination which has enough deviation from the common use of words and parts of words to make its registration as a trade-mark valid.

[1] Here appellant has so combined three words into a unitary notation as to result in a mark which, in our opinion, may suggest but does not necessarily describe the character of its goods. While it is, of course, true that if the mark were dissected, the words "Start," "grow," and "lay" might well be descriptive of the characteristics of various types of poultry feed, it is our belief that when the mark is viewed in its entirety, as it is viewed in the market place, it is capable of distinguishing applicant's goods from those of others.

Turning then to the second ground of rejection, it is our belief that the two marks, when not dissected, but viewed in their entirety as they should be, reflect no such similarity in appearance, spelling, sound, or meaning as to be likely to cause confusion in the mind of the purchasing public as to the origin of the respective goods.

In view of the above conclusions, we find it necessary to reverse the decision of the Patent Office.

REVERSED.

JACKSON, *J.*, retired, recalled to participate herein in place of GARRETT, *C. J.*

O'CONNELL, *J.* (dissenting):

The law is thoroughly established in this and other federal jurisdictions that trade-marks are nonregistrable whenever they consist of a combination of words, such as we have here, each word of which is individually nonregistrable under the mandate of the statute. *In re Midy Laboratories, Inc.*, 26 CCPA (Patents) 1294, 104 F.2d 617, 42 USPQ 17; *Kimberly-Clark Corporation* v. *Marzall*, 196 F.2d 772. In the cases just cited the respective courts properly rejected the proposition now advanced here that words nonregistrable separately or standing alone become registrable if combined, on the theory that trade-marks cannot be dissected and must be considered as a whole, irrespective of the character of their constituent parts. Moreover, appellant has unlawfully incorporated as the dominant part of its mark the essential features of the previously registered mark "Lay-an-Grow" for goods of the same kind of goods. *Carmel Wine Co.* v. *California Winery*, 38 App. D. C. 1; *In re Fleet-Wing Corp.*, 38 CCPA (Patents) 1039, 188 F.2d 476, 89 USPQ 369.

PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,119,654, P. E. Stone, Rear view mirror, D. C., E. D. Mich. (Detroit), Doc. 11340, *Nelmor Corp.* v. *P. E. Stone et al.* Patent held valid, cause and counterclaim dismissed with prejudice Oct. 1, 1953.

2,292,416, N. E. Walker, Controlled captive type toy airplane; 2,406,874, same, Retractable control element for toy airplanes; T. M. 391,900, American Junior Aircraft Co., Toy airplanes and control therefor, filed Sept. 24, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15889–C, *American Junior Aircraft Co.* v. *L. M. Cox Mfg. Co., Inc.*

2,406,874. (See 2,292,416.)

2,437,518, Grunwall & Ingelman, Manufacture of infusion and injection fluid, filed Oct. 6, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15867, *Pharmacia Laboratories* v. *R. K. Laros Co.*

2,475,549, 2,527,742, H. Laplante, Harness stop motion, filed Oct. 7, 1953, D. C. R. I. (Providence), Doc. 1615, *Stop-Loop-Matic, Inc.* v. *Lymansville Co.*

2,501,962, H. L. Pierce, Process for expanding earth material, D. C., S. D. Calif. (Los Angeles), Doc. 13688–BH, *Muhleisen Perlite Processing, Inc.* v. *H. L. Pierce*. Patent held invalid; counterclaim dismissed (notice Oct. 1, 1953).

2,516,527, H. R. Oltz, Bulkhead door for freight vehicles, filed Oct. 1, 1953, D. C., N. D. Calif. (San Francisco), Doc. 33090, *H. R. Oltz* v. *Pullman Standard Car Mfg. Co. et al.*

2,527,742. (See 2,475,549.)

2,541,868, J. C. Gordon, Embossed rug cushion; 2,572,470, same, Grid and waffle design rug cushion; 2,585,108, 2,585,109, same, Method of making embossed rug cushions, filed Oct. 1, 1953, D. C. Del., Doc. 1567, *General Felt Products Co.* v. *Allen Industries, Inc.*

2,572,470. (See 2,541,868.)

2,572,797, M. J. Zimmer, Wall fixture, D. C., S. D. Calif. (Los Angeles), Doc. 14712–BH, *Ekco Products Co.* v. *Multi-Worl Products Co. et al.* Complaint and cross-complaint dismissed (notice Oct. 1, 1953).

2,585,108. (See 2,541,868.) 2,585,109. (See 2,541,868.)

2,591,944, R. C. Kline, Carpet tufting machine; 2,600,993, Kline & Miller, same, filed Oct. 7, 1953, D. C. Puerto Rico (San Juan), Doc. 8654, *R. C. Kline* v. *Creative Textiles, Inc.*

2,594,131, L. A. Daines, Creased sheet metal panel and method of forming and applying such panels to frame structures, filed Sept. 29, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15903WM, *L. A. Daines* v. *Terry Coach Mfg., Inc.* Doc. 15902BH, *L. A. Daines* v. *R. S. Engineering & Mfg. Co., Inc.* Dismissed Sept. 29, 1953.

2,600,993. (See 2,591,944.)

2,623,368. (See Des. 165,778.)

2,636,369, S. Tait, Jr., Stocking fabric, filed Oct. 6, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15869, *Vogue Mfg. Corp.* v. *John Wanamaker.*

2,639,677, S. F. Anderson, Sandwich machine, filed Oct. 6, 1953, D. C., N. D. Ohio (Cleveland), Doc. 7086, *Anderson Bros. Mfg. Co.* v. *Lynch Corp.*

2,643,024, R. B. Cronheim, Vented cover for cooking vessels, filed Sept. 28, 1953, D. C., W. D. Mo. (St. Joseph), Doc. 727, *R. B. Cronheim* v. *L. Dietsch.*

Re. 23,167, R. E. Riley, Shoulder pad, D. C., S. D. Calif., (Los Angeles), Doc. 12177–PH, *R. E. Riley* v. *Broadway-Hale Stores, Inc.* Declaratory judgment favor defendant holding patent invalid; complaint, amended and supplemental complaint dismissed (notice Oct. 1, 1953).

Des. 120,538, H. C. Berkowitz, Bottle, filed Oct. 6, 1953, D. C., S. D. N. Y., Doc. 88/215, *Mr. Boston Distiller, Inc.* v. *Popper-Morson Co.*

Des. 131,187, C. Kronfeld, Scarf, filed Oct. 5, 1953, D. C., S. D. N. Y., Doc. 88/201, *F. B. Crummis Co., Inc., et al.* v. *Gimbel Bros., Inc.*

Des. 151,732, W. G. Bley, Lady's stocking, D. C., S. D. N. Y., Doc. 67/265, *Sanson Hosiery Mills, Inc., et al.* v. *G. P. Victorson et al.* Judgment enjoining defendants; counterclaim dismissed Sept. 29, 1953. Doc. 67/266, *Sanson Hosiery Mills, Inc., et al.* v. *Duet Hosiery Corp.* Consent judgment favor plaintiff for injunction Sept. 29, 1953. Doc. 68/350, *Sanson Hosiery Mills, Inc., et al.* v. *Janice Stores Corp.* Consent decree favor plaintiff for injunction Sept. 29, 1953. Same, D. C., E. D. Pa. (Philadelphia), Doc. 13382, *Sanson Hosiery Mills, Inc., et al.* v. *Miles Shoes of Market Street.* Consent judgment favor plaintiff and granting injunction Oct. 12, 1953.

Des. 165,778, 2,623,368, E. F. Olsen, Spillproof glass, filed Sept. 28, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13858, *E. F. Olsen v. Baby World Co., Inc.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 111,931, The Emerson Electric Mfg. Co., Electrical apparatus and machines; T. M. 199,433, same, Electric fans; T. M. 379,516, same, Blowers; T. M. 508,205, T. M. 508,206, same, Electric motors, fans, generators, and welders, etc., filed Sept. 25, 1953, D. C. N. J. (Newark), Doc. 747/53, *The Emerson Electric Mfg. Co.* v. *Emerson Radio & Phonograph Corp.*

T. M. 140,650. (See T. M. 315,300.)

T. M. 199,433. (See T. M. 111,931.)

T. M. 203,931, T. M. 333,549, T. M. 421,117, U. S. Plywood Corp., Plywood; T. M. 390,115, same, Waterproof glue; T. M. 570,623, Marsh Wall Products, Inc., Plastic surface material in sheet form; T. M. 315,978, G. W. Flynn, Adhesives and wood and mineral mixtures, D. C., E. D. N. Y. (Brooklyn), Doc. 13347, *U. S. Plywood Corp.* v. *Georgia-Pacific Plywood Co.* Order of discontinuance June 29, 1953.

T. M. 265,126. (See T. M. 315,300.)

T. M. 310,199, The Pep Boys, Lubricants, filed Oct. 5, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1996, *The Pep Boys* v. *Trillas Products, Inc.*

T. M. 315,300, Monsanto Chemical Works, Organic chemicals; T. M. 140,650, T. M. 265,126, same, Acetanilid, acid salicylic, etc.; T. M. 562,119, same, Saccharin soluble and involuble, D. C., S. D. N. Y., Doc. 83/387, *Monsanto Chemical Co.* v. *Thoet Corp.* Consent judgment enjoining defendant Oct. 2, 1953.

T. M. 315,978. (See T. M. 203,931.)

T. M. 333,549. (See T. M. 203,931.)

T. M. 379,516. (See T. M. 111,931.)

T. M. 390,115. (See T. M. 203,931.)

T. M. 391,900. (See Pat. 2,292,416.)

T. M. 421,117. (See T. M. 203,931.)

T. M. 508,205. (See T. M. 111,931.)

T. M. 508,206. (See T. M. 111,931.)

T. M. 562,119. (See T. M. 315,300.)

T. M. 570,623. (See T. M. 203,931.)

NOTICES

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,498,197, T. R. Baxter, Infusion package and method of making same, decided Nov. 30, 1953, claims 2 and 5.

Pat. 2,529,636, J. P. Smith, Jr., Recorder-connector for use in telephone conversation recording, decided Nov. 25, 1953, claims 19 and 20.

Pat. 2,548,209, L. S. Foster. Weed spraying device, decided Dec. 1, 1953, claims 1 and 3.

Pat. 2,558,241, M. Eller, Weed chopper, decided Sept. 30, 1953, claims 1 and 7.

Pat. 2,563,113, H. B. Hindin, H. S. Howe, and J. G. Walsh, Method of bonding rubber to metals, decided Nov. 25, 1953, claims 1, 2, and 4.

Pat. 2,610,680, E. Witzel, Control system utilizing single point ignition, decided Nov. 30, 1953, claim 1.

Pat. 2,615,115, M. Watter, Space-heating means, decided Dec. 2, 1953, claims 1 and 2.

Notice of Tentative Recordation of Trade Name

[T. D. 53384]

Tentative recordation of trade name under section 42, Trade-Mark Act of July 5, 1946, and section 11.16, Customs Regulations

TREASURY DEPARTMENT

OFFICE OF THE COMMISSIONER OF CUSTOMS

Washington, D. C., December 1, 1953

To Collectors of Customs and Others Concerned:

An application has been filed in the Treasury Department for the recordation of the following described trade name under the provisions of section 42, Trade-Mark Act of 1946, and section 11.16, Customs Regulations:

"DRIVER-HARRIS COMPANY," owned by Driver-Harris Company, a corporation organized and existing under the laws of the State of New Jersey, located and doing business at Harrison, New Jersey, which trade name is used in connection with metals, especially alloys containing nickel, nickel and chromium, nickel-chromium and iron, and copper-nickel, in various forms, including wire, ribbon, strip, strands, sheets, castings, ingots and forgings, and electric resistance elements in various forms, manufactured in the United States.

Any person who desires to file an opposition to the recordation of this trade name shall notify the Commissioner of Customs, Bureau of Customs, Washington 25, D. C., before the expiration of 30 days after December 14, 1953, of his intent to oppose the recordation. If a notice of opposition is filed, the opposer will be furnished with a copy of the application for recordation of the trade name, together with its supporting documents and instructions as to the procedure to be followed. The customs officers concerned will be given notice within 45 days after December 14, 1953, of any opposition proceeding.

Until 45 days after December 14, 1953, all articles of foreign manufacture bearing names or marks which copy or simulate the above-mentioned trade name shall be detained, but not seized, and thereafter, shall receive the treatment provided for in section 11.17, Customs Regulations, unless a notice is received that an opposition has been filed, in which case such articles shall continue to be detained until a final determination is made concerning the right of the applicant to the trade name.

(Signed) D. B. STRUBINGER,
Acting Commissioner of Customs.

Erratum

All references to Patent No. 2,662,282 to John T. Scully, for Safety Razor appearing in the OFFICIAL GAZETTE of December 15, 1953, should be deleted as the application was withdrawn from issue and the patent was not issued.

Classification Order No. 156

November 25, 1953

The following changes in the classification of inventions are hereby directed to take effect immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

In *Class 280, Land Vehicles* (Division 47)

Wheeled
33 Articulated
33.02 Collapsible to superposed relation
33.05 Separable motor section
33.2 Vehicle train
33.3 Traction engine tenders
33.4 Two wheeled trailers
33.44 Draft devices
33.5 Trailer steering
33.55 Stub axle type
33.6 Adjustable tongue
33.9 Resilient
33.1 Shiftable
33.11 Pivoted
33.12 To tractor
33.13 Pusher type
33.14 Tow poles and ropes
33.15 Coupling
33.16 Overload release
33.17 Ball and socket

In *Class 317, Electricity* (Division 48)

1 **Demagnetizing**
Safety and protection: systems and devices
33 High voltage protection (e. g., lightning)
34 Surge prevention (e. g., choke coil)
56 Relay control of circuit breaker (e. g., A. C. induction relays)
Magnets, electromagnets, transformers and inductors
For holding separate device
160 Blade sharpener (e. g., razor)
161 Magnetic particles (e. g., in lubricant)

In *Class 324, Electricity, Measuring and Testing* (Division 48)

49 **High frequency (e. g., resonant cavity)**
50 Voltage probe
Measuring, testing or sensing electricity per se
148 With phase shift means (Division 69)

CHANGE SUBCLASS TITLES

In *Class 209, Classifying, Separating and Assorting Solids* (Division 55), change the title of subclass 173 to read:

Fluid suspension
Liquid
Floating
Gravity liquid
173 Water or aqueous solution

In *Class 317, Electricity* (Division 48), change the title of subclasses 31, 37, 54, 55, 58, 59, 105, 151, 157, 204, 206, 227, 230 and 242 to read as follows:

Safety and protection: systems and devices
31 Voltage responsive
With time delay means
37 Combined thermal-electromagnet relay
54 With manual and automatic opening of breaker
55 For closing and opening
58 With specific circuit breaker or relay structure
59 Pneumatically operated breaker
Switchboards and analogous devices (e. g., plural components with spacing means, distribution boards)
With meter
105 Protective or antitampering mounts
Electric circuits for relays and electromagnets
151 Capacitor fed winding
157 Relay and electromagnetic switching circuits
Magnets, electromagnets, transformers and inductances
204 With integral switch, capacitor or electrostatic shield (e. g., ignition, Ruhmkorff coil)
206 Inductor with capacitative element (e. g., electrostatic shield)
227 Magnetic structure (e. g., stacked laminations)
230 **Electrolytic (e. g., capacitors, cell vents)**
242 **Capacitors**

In *Class 324, Electricity, Measuring and Testing* (Division 48), change the title of subclasses 29, 43, 68 and 79 to read:

29 **Electrolytic**
Magnetic
43 Testing magnetic field
68 **Time and/or speed**
Measuring, testing or sensing electricity per se
Frequency of cyclic current or voltage (e. g., cycle counting)
79 By frequency comparison (e. g., heterodyne)

ESTABLISH SUBCLASSES

In *Class 209, Classifying, Separating and Assorting Solids* (Division 55)
(R. D. NEVIUS and ARTHUR H. BEHRENS, *Classifiers*)

Fluid suspension
Liquid
Floating
Gravity liquid
172.5 Suspension (to follow subclass 172)

In *Class 218, Button, Eyelet and Rivet Setting* (Division 11)
(H. T. KLINKSIEK, *Classifier*)

30 **Operable through hollow fastening element (e. g., "blind" riveting)** (to follow sub. 19)
31 Force application limiting type
32 With force disconnect
33 With fluid pressure release
34 With magazine supply of elements
35 Combined and/or convertible
36 With auxiliary or secondary coaxial member to contact base or element
37 Deforming or setting by peening
38 Deforming or setting by spinning
39 Radially expanding engager for element
40 Elastic deformable sleeve
41 With sequential pull to set
42 Pull to set
43 Pulling connection rotatably driven relative to abutment
44 Torque responsive drive interrupter
45 With triggering of pulling means
46 Spiral drive to rotate
47 Fluid motor
48 With recoil cushion

In *Class 241, Solid Material Comminution or Disintegration* (Division 55)
(ARNOLD RUBOG, JR., *Classifier*)

Apparatus
32.5 With sink drain stopper interlock (to follow subclass 32)
100.5 Combined with sink drain (to follow subclass 100)

In *Class 266, Metallurgical Apparatus* (Division 3)
(R. A. WAHL, *Classifier*)

Treating solid metal
2.5 With metal shaping (to follow subclass 2)

In *Class 280, Land Vehicles* (Division 47)
(E. R. MACKERT, F. R. REILLY, *Classifiers*)

Wheeled
Attachments
150.5 With retractable ground support (to follow subclass 150)
193 Releasable rope holder (to follow subclass 192)
400 Articulated vehicles (to follow subclass 32 6)
401 Collapsible to superposed relation
402 Single end suspension of transported vehicle
403 With access between vehicles
404 Load separately supported on plural units (e. g., pole carrying type)
405 Load distribution adjustment
406 Plural connections
407 Adjustable connection to leading vehicle
408 With draft means at front and rear of same vehicle (e. g., vehicle train)
409 For laterally offset vehicles
410 Direct draft
411 Multiple trailing vehicles
412 Adjustable
413 Abreast
414 Boat carrying type
415 Convertible
416 Animal and vehicle draft
417 Male and female coupling member
418 Two wheel and four wheel
419 Interconnected steering of plural units
420 Service connections
421 Fluid
422 Electric
423 Semi-trailer
424 Passenger carrying type
425 Coupling or uncoupling facilitating lift means
426 Steering by articulative movement
427 Interrelated operation of coupling, landing gear and brake
428 Interrelated brake and coupling
429 Landing gear actuated by coupling action
430 Longitudinally movable trailer coupling
431 Landing gear and coupling interlock
432 Safety devices
433 Fifth wheel only
434 Self-coupling
435 Double pivoted jaws
436 Urged to retaining position by draft
437 Transverse horizontal pivot retainer
438 Movably mounted
439 Resilient
440 Rubber
441 Slidably mounted
442 Wheel steering by articulative movement
443 Stub axle
444 Drawbar pivoting
445 With steering disabling means
446 Condition responsive connections
447 Freely laterally shiftable
448 Reversal responsive articulation modification
449 Overload release
450 Notched bar and detent
451 Frangible member (e. g., shear pin)
452 Pivoted jaw or hook
453 Linear motion hook release
454 Double link retainer
455 Resilient keeper
456 Plural or laterally adjustable connections
457 Auxiliary safety connection
458 With crossed connections
459 Auxiliary tracking connection
460 Laterally spaced parallel connections
461 Vertically spaced connections
462 Angularly adjustable trailer tongue
463 With actuator
464 Gearing
465 Screw
466 Belt and sprocket
467 Laterally or angularly adjustable vehicles
468 With actuator
469 Gearing
470 Screw
471 Belt and sprocket
472 Laterally offset
473 Side draft
474 Selectively rigid or flexible
475 With retractable ground support
476 Wheeled draft connection
477 Connection facilitating
478 Draft element bodily shiftable
479 With motor
480 Tow ropes, chains, etc.
481 Pusher type
482 Adjustable length draft devices
483 Resilient
484 Plural biased movements
485 By single resilient element, e. g., rubber block type
486 In line of draft
487 To intermediate position
488 About vertical pivot
489 About horizontal transverse pivot
490 Vertically adjustable
491 Retractable, foldable or knockdown
492 Plural articulation axes
493 Tow bar
494 Horizontal pivot with vertical or universal pivots
495 Vehicle mounting or clamp
496 Forward of leading vehicle rear axle
497 Vertically spaced connections of draft element to leading vehicle
498 Pivoted
499 Vertical pivot and spaced horizontal guide
500 Modified bumper or non-coupling bumper clamp
501 With other vehicle connection
502 Bumper clamp
503 Axle connection
504 Coupling
505 Bumper forms coupling element
506 Rattle preventing
507 Protector or lock
508 Self-coupling
509 Biased open
510 Opened by opposite coupling part
511 Ball and socket
512 Pivoted jaw or retainer
513 Reciprocating jaw or retainer
514 Interlocked
515 Draft pin

In *Class 317, Electricity* (Division 48)

(H. K. SAALBACH, *Classifier*)

Safety and protection: systems and devices
High voltage dissipator per se (e. g., lightning arrestor)
61.5 Surge prevention (e. g., choke coil) (to follow subclass 61)
157.5 **Demagnetising** (to follow subclass 157)
Magnets, electromagnets, transformers and inductors
200.5 Blade sharpener (to follow subclass 200)
Permanent magnets (e. g., keepers)
201.5 For mounting on fluid casing (e. g., crankcase plug) (to follow sub. 201)

In *Class 324, Electricity, Measuring and Testing* (Division 48)

(H. K. SAALBACH, *Classifier*)

Electrolytic
29.5 Battery testers (e. g., test under load) (to follow subclass 29)
Impedance, admittance and related quantities
With wave guide or long line (e. g., resonant cavity)
58.5 To determine non-electric property (to follow subclass 58)
Testing potential in specific environment (e. g., lightning stroke)
72.5 Voltage probe

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
280	33	280	Various
	33.02		401
	33.05	254	86
		280	420+, 423+, 150.5
	33.2		Various
	33.3		419
	33.4		Various
	33.44		Various
	33.5		442+
	33.55		443+, 98+
	33.6		462+
	33.9		483+
	33.1		462+, 467+
	33.11		462+, 467+
	33.12		462+, 467+
	33.13		481
	33.14		480, 493+
	33.15		504+
	33.16		449+
	33.17		511+
317	1	317	157.5
	33		61
	34		61.5
	56		58
	160		200.5
	161		201.5
324	49	324	58.5
	50		72.5
	148		No patents

PRINCIPAL SOURCE OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
209	172.5	209	173
218	30–37	218	19
	38, 39		19, 25
	40, 41		19
	42		19, 25
	43–46		19
	47	218	19
		60	54.5
	48	218	19

PRINCIPAL SOURCE OF PATENTS IN ESTABLISHED SUBCLASSES—Continued

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
241	32.5, 100.5	4	Various
		146	Various
		241	Various
266	2.5	266	2, 3
280	150.5	280	33.05, 33.4
	193		150
	400		Various
	401		33.02
	402		33.05
	403		33, 33.05
	404		33.4
	405		33.4, 33.44
	406		Various
	407		33.44
	408		Various
	409		33.11
	410		Various
	411+		33.44
	414		33.4
	415		33.14
	416		33.44
	417		33.05
	418		Various
	419		33.3
	420+		33.05
	423+		33.05
	442		33.5
	443+		33.55
	446		Various
	447		33.1, 33.44
	448		Various
	449+		33.16
	456, 457		33.44
	458, 459		33.5
	460		Various
	461		33.05, 33.44
	462		Various
	463		33.11
	464, 465		33.11, 33.6
	466		33.6
	467		33.12, 33.44
	468+		33.1
	472+		33.44
	474		Various
	475		33.4, 33.44
	476		33.4
	477		33.15
	478		Various
	479		33.44
	480		33.14
	481		33.13
	482, 483		Various
	484+		33.9
	486+		33.9
	488, 489		Various
	490		33.44
	491		33.14, 33.44
	492		33.44
	493		33.14
	494		Various
	495+		33.44
	504		33.15
	505		33.14
	506		33.15
	507		Various
	508+		33.15
	511+		33.17
	514, 515		33.15
317	61.5	317	34
	157.5		1
	200.5		160
	201.5		161
324	29.5	324	29
	58.5		49
	72.5		50

M. C. ROSA,
Executive Examiner.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Composition containing d-desoxyephedrine hydrochloride and vitamins. Serial No. 646,091, Dec. 29. Class 18.

Airborne Accessories Corporation, Hillside, N. J. Profile dressing and grinding machines, right angle bevel gear units and gear boxes. Serial No. 648,518, Dec. 29. Class 23.

Airex Corporation, New York, N. Y. Fishing and spinning reels, fishing and spinning rods, fishing plugs, etc. Serial No. 646,717, Dec. 29. Class 22.

Allied Chemical & Dye Corporation, New York, N. Y. Synthetic fertilizer. Serial No. 649,978, Dec. 29. Class 10.

Aluminum Company of America, assignee: *See*—
Aluminum Seal Company, Inc.

Aluminum Seal Company, Inc., Richmond, Ind., assignor to Aluminum Company of America, Pittsburgh, Pa. Caps and closure seals. Serial No. 572,886, Dec. 29. Class 50.

American Agile Corporation, Maple Heights, Ohio. Polyethylene. Serial No. 639,601, Dec. 29. Class 6.

American Agile Corporation, Maple Heights, Ohio. Polyvinyl chloride. Serial No. 639,602, Dec. 29. Class 6.

American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, New York, N. Y., and Philadelphia, Pa. Electuary applicator for the measured administration of medicaments. Serial Nos. 647,578–9, Dec. 29. Class 44.

American Reenforced Paper Company, Attleboro, Mass. Gummed box stay strips. Serial No. 633,478, Dec. 29. Class 5.

Anaconda Wire and Cable Company, New York, N. Y. Electric wires and cables. Serial No. 649,682, Dec. 29. Class 21.

Anderson Motors Ltd., Vancouver, British Columbia, Canada. Motor vehicle generator guards to be mounted on electrical generators. Serial No. 640,320, Dec. 29. Class 21.

Anderson, R. E., doing business under the trade name of Sto-A-way Company, Aurora, Ill. Metal stand. Serial No. 646,976, Dec. 29. Class 13.

Angelo Bros. Limited, Calcutta, India. Cut shellac, shellac flakes and chunks, etc. Serial No. 621,800, Dec. 29. Class 1.

Astron Corporation, East Newark, N. J. Capacitors. Serial No. 640,388, Dec. 29. Class 21.

Atlantic Machine Tool Works, Inc., Newington, Conn. Engineering research services. Serial No. 637,696, Dec. 29. Class 100.

Austin, James, Company, Mars, Pa. Bleach for textile fabrics. Serial No. 646,646, Dec. 29. Class 6.

Avon India Rubber Company Limited, The, Melksham, England. Tires and tubes. Serial No. 649,465, Dec. 29. Class 35.

Bailey Bros. Circus: *See*—
Stevens, Robert.

Battenfeld Grease & Oil Corp., Kansas City, Mo. Lubricating oils and greases. Serial No. 645,947, Dec. 29. Class 15.

Beatty, Carol, Company, Los Angeles, Calif. Dome shaped transparent plastic case. Serial No. 633,409, Dec. 29. Class 2.

Bell-Cox Corporation, Los Angeles, Calif. Plastic compartmented bags. Serial No. 646,732, Dec. 29. Class 2.

Beltz, Charles R., doing business as Beltz Engineering Laboratories, Detroit, Mich. Refrigeration equipment. Serial No. 643,633, Dec. 29. Class 31.

Beltz Engineering Laboratories: *See*—
Beltz, Charles R.

Bendix Aviation Corporation, South Bend, Ind. Shock struts. Serial No. 650,155, Dec. 29. Class 19.

Berkshire Biscuit Company, Shillington, Pa. Cookies. Serial No. 639,736, Dec. 29. Class 46.

Bigelow-Clark, Inc., Brooklyn, N. Y. Antiseptic rubefacient. Serial No. 649,684, Dec. 29. Class 18.

Blax, Inc., New York, N. Y. Ear drops. Serial No. 648,980, Dec. 29. Class 18.

Boehmer, Inc., Wenatchee, Wash. Fresh deciduous fruits. Serial No. 637,908, Dec. 29. Class 46.

Bouncy Manufacturing Company, Woodward, Okla. Fishing tackle. Serial No. 650,298, Dec. 29. Class 22.

Bradford Chemical Company, Inc., Bradford, Pa. Water treating compound. Serial No. 631,460, Dec. 29. Class 6.

Brearley Company, The, Rockford, Ill. Weighing scales. Serial No. 632,149, Dec. 29. Class 26.

Bressler Bros., Atlanta, Ga. Women's industrial uniforms. Serial No. 640,833, Dec. 29. Class 39.

Broderick, Frank W., Summit, N. J. Display box cardboard cartons. Serial No. 636,967, Dec. 29. Class 2.

Bruce & Company (Leith) Limited, Leith, Edinburgh, Scotland. Scotch whiskey. Serial No. 635,024, Dec. 29. Class 49.

Burma-Vita Company, Minneapolis, Minn. Lotion. Serial No. 649,473, Dec. 29. Class 51.

Byron, W. D., & Sons, Inc.: *See*—
Byron, W. D., & Sons of Maryland, Inc.

Byron, W. D., & Sons of Maryland, Inc., Williamsport, Md., now by change of name, W. D. Byron & Sons, Inc. Leather. Serial No. 640,496, Dec. 29. Class 1.

Capitol Hill Wine & Spirits Inc., Indianapolis, Ind. Wines. Serial No. 629,230, Dec. 29. Class 47.

Carmean, James H., doing business as Hornol Processing Company, Liberty, Mo. Lubricant. Serial No. 646,268, Dec. 29. Class 15.

Celia, George, doing business as Life Manager Company, Chicago, Ill. File cards and binders. Serial No. 624,591, Dec. 29. Class 37.

Century Industries, Inc., Chicago, Ill. Wall mirrors. Serial No. 631,144, Dec. 29. Class 32.

Cesco Container Company, New York, N. Y. Metal and wooden boxes and crates. Serial No. 648,369, Dec. 29. Class 2.

Chatfield & Woods Sack Company, The, Cincinnati, Ohio. Paper sacks. Serial No. 626,494, Dec. 29. Class 2.

Chempro Sales Co., Bloomfield, N. J. Mastic exterior coating. Serial No. 631,093, Dec. 29. Class 16.

Chicago Beef Company: *See*—
United Packers, Inc.

Cinefot International Corp., New York, N. Y. Photographic cameras. Serial No. 646,053, Dec. 29. Class 26.

Coe Laboratories, Inc., Chicago, Ill. Denture impression material. Serial No. 649,870, Dec. 29. Class 44.

Columbia Records Inc., Bridgeport, Conn. Electric phonographs, turntables, sound reproducers, etc. Serial No. 648,589, Dec. 29. Class 21.

Connecticut Leather Company: *See*—
Greenberg, Maurice.

Curtiss, John A., doing business as Rednels Laboratories, Manhasset, N. Y. Appetite reducing tablets. Serial No. 646,741, Dec. 29. Class 18.

Dairy Crown Co., assignor to Dairy Crown Corporation, Saginaw, Mich. Packaged ice cream, ice cream cones, and frozen custard. Serial No. 641,441, Dec. 29. Class 46.

Dairy Crown Corporation, assignee: *See*—
Dairy Crown Co.

David & Sons: *See*—
Hairbedian, David D.

Dearborn Stove Company, Dallas, Tex. Automatically controlled gas burner. Serial No. 622,927, Dec. 29. Class 34.

Dexter Company, The, Fairfield, Iowa. Laundry equipment. Serial Nos. 649,488–9, Dec. 29. Class 24.

Diamond Calk Horseshoe Co., Duluth, Minn. Pitching shoes. Serial No. 634,969, Dec. 29. Class 22.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Toothbrushes. Serial No. 653,295, Dec. 29. Class 29.

Dyer, J. E., & Co., Washington, D. C. Canned vegetables and canned vegetable juices, canned deciduous fruits and deciduous fruit juices, etc. Serial No. 625,722, Dec. 29. Class 46.

Eckenboy, Russell: *See*—
Ecko Products, Inc.

Ecko Products, Inc., Detroit, Mich., assignee of R. Eckenboy. Cigarette cases. Serial No. 587,186, Dec. 29. Class 8.

Erie Resistor Corporation, Erie, Pa. Resistors. Serial No. 648,541, Dec. 29. Class 21.

Feinberg Kosher Sausage Co.: *See*—
Feinberg Realty Co.

Feinberg Realty Co., doing business under the name Feinberg Kosher Sausage Co., Minneapolis, Minn., by change of name from Feinberg Kosher Sausage Co. Beef sausage. Serial No. 563,459, Dec. 29. Class 46.

Ferrotherm Company, Cleveland, Ohio. Annealing, hardening, and brazing of metals. Serial Nos. 642,132–3, Dec. 29. Class 106.

Firestone Tire & Rubber Company, The, Akron, Ohio. Resilient vehicle tires. Serial No. 651,166, Dec. 29. Class 35.

"Freedman Associates": *See*—
Freedman, Jerome L.

Freedman, Jerome L., conducting business under the firm name "Freedman Associates," Brooklyn, N. Y. Hair tonic. Serial No. 641,288, Dec. 29. Class 51.

Fritz & LaRue Company, The, New York, N. Y. Woven and/or knotted rugs and carpets. Serial No. 648,989, Dec. 29. Class 42.

Frosst, Charles E., & Co., Montreal, Quebec, Canada. Anti-pyritic. Serial No. 630,068, Dec. 29. Class 18.

Fuller Brush Company, The, Hartford, Conn. Air deodorant. Serial No. 647,285, Dec. 29. Class 6.

Gafney, H., New York, N. Y. Motor oil. Serial No. 646,064, Dec. 29. Class 15.

Gateway Packing Co., Inc., Malden, Mass. Canned boned chicken fricassee and chicken gravy. Serial No. 651,103, Dec. 29. Class 46.

General Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires. Serial No. 646,065, Dec. 29. Class 35.

Goike, A. M., Company: *See*—
Goike, Alphonse M.

Goike, Alphonse M., doing business as A. M. Goike Company, Greendale, Wis. Plant food. Serial No. 642,633, Dec. 29. Class 10.

Gottstein, Adolph J., Woodbridge, N. J. Adjustable lifting and carrying handle. Serial No. 632,782, Dec. 29. Class 13.

Greenberg, Maurice, trading and doing business as Connecticut Leather Company, Hartford, Conn. Handicraft kits. Serial No. 646,668, Dec. 29. Class 50.

Greene, Claire, Inc., New York, N. Y. Quilts and comforters. Serial No. 647,842, Dec. 29. Class 42.

Hairbedian, David D., doing business under the firm name and style of David & Sons, Fresno, Calif. Edible nuts, edible seeds, etc. Serial No. 615,318, Dec. 29. Class 46.

Hair Nutri, Inc., New York, N. Y. Scalp and hair preparation. Serial No. 644,301, Dec. 29. Class 51.

Harvey Laboratories, Inc., Philadelphia, Pa. Liquid medicine. Serial No. 649,053, Dec. 29. Class 18.

Heckman Products Corp., Washington, D. C. Pickles. Serial No. 639,275, Dec. 29. Class 46.

Hettrick Manufacturing Company, The, Toledo, Ohio. Water resistant fabric. Serial No. 647,847, Dec. 29. Class 42.

Heyden Chemical Corporation, New York, N. Y. Dyeing assistants. Serial No. 648,671, Dec. 29. Class 6.

Hoffman Import & Distributing Co.: *See*—
Hoffman, Phillip.

Hoffman, Kiva, Mamaroneck, N. Y. Cosmetics. Serial No. 649,509, Dec. 29. Class 51.

Hoffman, Phillip, doing business under the name of Hoffman Import & Distributing Co., Jersey City, N. J. Wines. Serial No. 636,709, Dec. 29. Class 47.

Hornel Processing Company: *See*—
Carmean, James H.

Hospital Equipment Corporation, New York, N. Y. Graduated medicine cups; graduates, capillary, centrifuge, and test tubes, etc. Serial No. 619,833, Dec. 29. Class 26.

Humko Co., The, Memphis, Tenn. Edible oil. Serial No. 638,487, Dec. 29. Class 46.

Hydropulser Corporation, Oak Park, Ill. Bactericide. Serial No. 642,652, Dec. 29. Class 6.

Ideal Toy Corporation, Hollis, N. Y. Dolls. Serial No. 653,224, Dec. 29. Class 22.

Inter-Coastal Paint Corporation, East St. Louis, Ill. Turpentine substitute. Serial No. 642,354, Dec. 29. Class 16.

International Latex Corporation, Dover, Del. Household paints. Serial No. 650,811, Dec. 29. Class 16.

Ironees Company, The: *See*—
Lehrman, David.

J. M. Co.: *See*—
Monzo, Joseph.

Jaxton Manufacturing Corporation, Glens Falls, N. Y. Wooden trays. Serial No. 648,306, Dec. 29. Class 2.

Jay-Ann Co., Inc., San Antonio, Tex. Infants' and children's dresses, pinafores, sunsuits, etc. Serial No. 616,826, Dec. 29. Class 39.

Kentile, Inc., Brooklyn, N. Y. Asphalt floor tile. Serial No. 639,179, Dec. 29. Class 12.

Lambert Company, The, Jersey City, N. J., and Northampton, Mass. Plastic dinner hollow ware. Serial No. 648,110, Dec. 29. Class 2.

Lambert Company, The, Jersey City, N. J., and Northampton, Mass. Plastic dinner hollow ware. Serial No. 649,599, Dec. 29. Class 2.

Lancome, S. A., Paris, France. Facial anti-wrinkle pack Serial No. 641,452, Dec. 29. Class 51.

La Resista Corset Company, The, Bridgeport, Conn. Surgical brassières. Serial No. 650,451, Dec. 29. Class 44.

Lavallee, J. A., and Sons: *See*—
Lavallee, Joseph A.

Lavallee, Joseph A., doing business as J. A. Lavallee and Sons, Central Falls, R. I. Lanolin. Serial No. 640,217, Dec. 29. Class 51.

Legear, Dr., L. D., Medicine Co., St. Louis, Mo. Uterine bolus. Serial No. 638,655, Dec. 29. Class 18.

Lehrman, David, trading as The Ironees Company, Philadelphia, Pa. Ironing board pads and covers. Serial No. 650,264, Dec. 29. Class 24.

Leon, Victor, Massapequa, N. Y. Can openers, bottle cap removers, hair clippers, razor blade holders, etc. Serial No. 642,035, Dec. 29. Class 23.

Lewis & McDowell, Inc., assignor to Pinky Products, Inc., New York, N. Y. Fingernail polish removing kit. Serial No. 597,343, Dec. 29. Class 44.

Life Manager Company: *See*—
Celia, George.

Light Weight Mortar, Inc., Big Flats, N. Y. Mortar, ready mortar mix, plaster, etc. Serial No. 636,718, Dec. 29. Class 12.

Lincoln, L. H., & Son, Inc., Coudersport, Pa. Material for the impregnation of water sands in gas and oil wells, or for soil or the like, etc. Serial No. 641,453, Dec. 29. Class 6.

Lustre Fibres Inc., New York, N. Y. Viscose staple fiber. Serial No. 648,609, Dec. 29. Class 1.

Lustre Fibres, Inc., New York, N. Y. Viscose staple fiber. Serial No. 648,611, Dec. 29. Class 1.

Manufacturers Reserve Supply, Inc., Irvington, N. J. Shingles and processed shakes. Serial No. 633,372, Dec. 29. Class 12.

Marcus Brush Company, Chicago, Ill. Paint brushes. Serial No. 624,751, Dec. 29. Class 29.

Maret Grain Company, Hartwell, Ga. Dairy feed. Serial No. 627,343, Dec. 29. Class 46.

Martin Varnish Company, Chicago, Ill. Varnishes, paint ename's, baking enamels, etc. Serial No. 624,436, Dec. 29. Class 16.

Maryland Paper Products Co., Baltimore, Md. Drinking straws. Serial No. 647,211, Dec. 29. Class 50.

Master Builders Company, The, Cleveland, Ohio. Membrane curing compound. Serial No. 645,580, Dec. 29. Class 6.

Meining, E. Richard, Co., The, Reading, Pa. Textile fabrics. Serial No. 638,865, Dec. 29. Class 42.

Metal & Thermit Corporation, New York, N. Y. Stabilizer for chlorine-containing resin. Serial No. 648,615, Dec. 29. Class 6.

Metals & Controls Corporation, Attleboro, Mass. Laminated metals. Serial No. 635,542, Dec. 29. Class 14.

Mex-Maid Food Products Co., Nogales, Ariz. Frozen fresh tamales. Serial No. 637,384, Dec. 29. Class 46.

Mid-States Gummed Paper Co., Chicago, Ill. Corrugated paper cartons. Serial No. 648,420, Dec. 29. Class 2.

Miedema, Gerben, Spokane, Wash. Heater operated from electrical sources. Serial No. 635,424, Dec. 29. Class 21.

Monarch Wine Company of Georgia, Atlanta, Ga. Wines. Serial No. 640,687, Dec. 29. Class 47.

Monzo, Joseph, doing business as J. M. Co., Philadelphia, Pa. Preparation for treatment of burns and sores. Serial No. 650,270, Dec. 29. Class 18.

Moorman Manufacturing Company, assignee: *See*—
Pay-U Laboratories, Inc.

Natick Industries Corporation, doing business as Natick Pharmacal Laboratories, Natick, Mass. Essential unsaturated fatty acid complexes. Serial No. 632,265, Dec. 29. Class 18.

Natick Pharmacal Laboratories: *See*—
Natick Industries Corporation.

National Association of Soft Water Service Operators, Chicago, Ill. Adjuvant to ion exchange water softening agents. Serial No. 648,556, Dec. 29. Class 6.

Nestlé Company, Inc., The, White Plains, N. Y. Prepared edible chocolate. Serial No. 646,154, Dec. 29. Class 46.

Nevelson, Corinne J., New York, N. Y. Table-ware. Serial No. 625,568, Dec. 29. Class 23.

Newgren, Rose R., Gates Mills, Ohio. Boxes. Serial No. 633,211, Dec. 29. Class 2.

Northern Dyeing Corporation, Washington, N. J. Dyeing fabrics. Serial No. 649,954, Dec. 29. Class 106.

Northrup, King & Co., Minneapolis, Minn. Early seed corn. Serial No. 638,547, Dec. 29. Class 1.

Numanna Laboratories Corporation, Wadsworth, Ill. Nutritional supplement. Serial No. 644,780, Dec. 29. Class 18.

Nylen, Roy F., Chicago, Ill. Plastic cylinders. Serial No. 620,816, Dec. 29. Class 2.

Ohio Ferro-Alloys Corporation, Canton, Ohio. Ferro-alloys. Serial No. 629,811, Dec. 29. Class 14.

Oregon Lumber Company, Baker, Oreg. Compressed natural wood fibers. Serial No. 621,632, Dec. 29. Class 12.

Oregon Lumber Company, Baker, Oreg. Compressed natural wood fibers. Serial No. 629,618, Dec. 29. Class 12.

Outboard, Marine & Manufacturing Company, Waukegan, Ill. Auxiliary fuel tank. Serial No. 648,423, Dec. 29. Class 2.

Parke, Davis & Company, Detroit, Mich. Adhesive bandages. Serial No. 640,357, Dec. 29. Class 44.

Patent-und Versuchs-Anstalt: *See*—
Schaurte, Paul.

Pathway Optical Products, New York, N. Y. Optical frames. Serial No. 640,048, Dec. 29. Class 26.

Pay-U Laboratories, Inc., assignor to Moorman Manufacturing Company, Quincy, Ill. Mineral and vitamin concentrates and supplements. Serial No. 640,472, Dec. 29. Class 18.

Pelham Electric Manufacturing Company, Erie, Pa. Switchboards, panels and parts thereof, etc. Serial No. 648,260, Dec. 29. Class 21.

Penick, S. B., & Company, New York, N. Y. Powdered rosin. Serial No. 648,619, Dec. 29. Class 6.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Chemical agent. Serial No. 648,689, Dec. 29. Class 6.

Peoples Broadcasting Corporation, Columbus, Ohio. Commerical radio broadcasting. Serial No. 631,965, Dec. 29. Class 104.

Peters, Leo, Evanston, Ill. Key operated or combination lock operated locking bag. Serial No. 582,541, Dec. 29. Class 25.

Philco Corporation, Philadelphia, Pa. Radio phonograph. Serial No. 648,190, Dec. 29. Class 21.

Picker X-ray Corporation, New York, N. Y. X-ray cassettes. Serial No. 640,473, Dec. 29. Class 26.

Piedmont Shirt Company, Greenville, S. C. Men's and boys' outer shirts, under shorts and pajamas. Serial No. 636,049, Dec. 29. Class 39.

Pinky Products, Inc., assignee: *See*—
Lewis & McDowell, Inc.

Pioneer Electric and Research Corporation, The, Forest Park, Ill. Remote switching apparatus, remote positioning apparatus, radio receiving apparatus, etc. Serial No. 623,675, Dec. 29. Class 21.

Pioneer Paint & Varnish Co., Tucson, Ariz. Paints and varnishes. Serial No. 649,533, Dec. 29. Class 16.

Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Herbicides. Serial Nos. 648,620–2, Dec. 29. Class 6.

Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Insecticides. Serial No. 648,623, Dec. 29. Class 6.

Price Battery Corporation, Hamburg, Pa. Storage batteries and parts thereof. Serial No. 648,428, Dec. 29. Class 21.

Proportioneers, Inc., Providence, R. I. Proportioning meters and test kits. Serial No. 640,079, Dec. 29. Class 26.

Pulverizing Machinery Company, Summit, N. J. Rotary discharge valve. Serial No. 643,855, Dec. 29. Class 13.

Pure Oil Company, The, Chicago, Ill. Services rendered to automobiles, trucks, etc. Serial No. 527,552, Dec. 29. Class 103.

Ray Proof Corporation, New York, N. Y. Structural materials and sub-structures. Serial No. 630,617, Dec. 29. Class 12.

Reinels Laboratories: *See*—
Curtiss, John A.

Rheinische Rohrenwerke Aktiengesellschaft, Mulheim (Ruhr), Germany. Metal shipping and storage containers. Serial No. 635,322, Dec. 29. Class 2.

Rosengarten, Henry D., doing business as I. Rosengarten, Furs, Miami, Fla. Fur cleaning. Serial No. 646,575, Dec. 29. Class 103.

Rosengarten, I., Furs: *See*—
Rosengarten, Henry D.

Rudolf, George A., Berkeley, Calif. Sleeping bags, mountain climbing apparatus, etc. Serial No. 650,837, Dec. 29. Class 22.

Safeway Stores, Incorporated, Oakland, Calif. Canned sauerkraut. Serial No. 649,732, Dec. 29. Class 46.

Schaurte, Paul, doing business as Patent- und Versuchs-Anstalt, Vaduz, Liechtenstein. Sorting machines and sorting gages. Serial No. 548,468, Dec. 29. Class 26.

Schenley Laboratories, Inc., New York, N. Y. Somnifacient. Serial No. 646,810, Dec. 29. Class 18.

Schieffelin & Co., New York, N. Y. Applicator for administering liquid medication. Serial No. 650,219, Dec. 29. Class 44.

Sears, Roebuck and Co., Chicago, Ill. Flat finish wall paint. Serial No. 639,841, Dec. 29. Class 16.

Shredmaster Corporation, The, Brooklyn, N. Y. Paper cutting machines. Serial No. 648,506, Dec. 29. Class 23.

Sloan, Willie, Los Angeles, Calif. Skin lotion. Serial No. 627,359, Dec. 29. Class 51.

Southern Club Co., Tulsa, Okla. Soft drinks. Serial No. 630,969, Dec. 29. Class 45.

Southern Straw Manufacturing Company, Atlanta, Ga. Drinking straws. Serial No. 645,347, Dec. 29. Class 50.

Staats Oil Company, Malvern, Pa. Fuel oil, kerosene, and gasoline. Serial No. 625,304, Dec. 29. Class 15.

Stahl, H. K., Company, St. Paul, Minn. Petroleum products. Serial No. 638,031, Dec. 29. Class 15.

Sterling Hardware Manufacturing Company, Chicago, Ill. Various items of builders' hardware. Serial No. 640,087, Dec. 29. Class 13.

Stern Brothers, New York, N. Y. Playing cards, dolls, doll carriages, etc. Serial No. 639,512, Dec. 29. Class 22.

Stevens, Robert, doing business under the name of Bailey Bros. Circus, Dallas, Tex. Entertainment service. Serial No. 631,637, Dec. 29. Class 107.

Stewart-Warner Corporation, Chicago, Ill. Radio receiving sets. Serial Nos. 649,737–8, Dec. 29. Class 21.

Sto-A-Way Company: *See*—
Anderson, R. E.

Summers, Charles G., Jr., Inc., New Freedom, Pa. Canned vegetables. Serial No. 645,271, Dec. 29. Class 46.

Sutherland Paper Company, Kalamazoo, Mich. Collapsible cartons. Serial No. 644,644, Dec. 29. Class 2.

Tech-Clamp Co., Inc., Boston, Mass. Vise. Serial No. 642,099, Dec. 29. Class 23.

Tentindo, Louis, Boston, Mass. Paste preparation for the skin. Serial No. 635,980, Dec. 29. Class 51.

Texize Chemicals, Inc., Greenville, S. C. Greaseless cleaner. Serial No. 648,208, Dec. 29. Class 52.

Turnbridge Manufacturing & Supply Company, Limited, The, London, England. Paints, enamel paint, varnishes, etc. Serial No. 638,983, Dec. 29. Class 16.

Twisto Container Corporation, Redwood City, Calif. Tooth brushes. Serial No. 633,742, Dec. 29. Class 29.

Underwood Corporation, New York, N. Y. Carbon paper and inked ribbons. Serial No. 649,448, Dec. 29. Class 11.

Union Asbestos & Rubber Company, Chicago, Ill. Refrigerating units. Serial No. 632,494, Dec. 29. Class 31.

Unit Hosiery Co., Inc., Cleveland, Ohio. Hosiery. Serial No. 635,202, Dec. 29. Class 39.

United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. Serial No. 648,972, Dec. 29. Class 42.

United Packers, Inc., doing business as Chicago Beef Company, Chicago, Ill. Meat food products. Serial No. 637,962, Dec. 29. Class 46.

United States Rubber Company, New York, N. Y. Plastic hose. Serial No. 638,744, Dec. 29. Class 35.

Universal Winding Company, Cranston, R. I. Machines and parts thereof. Serial No. 632,808, Dec. 29. Class 23.

Vanderbilt, R. T., Company, Inc., New York, N. Y. Additive used as an anti-oxidant in lubricants. Serial No. 642,914, Dec. 29. Class 15.

Vineland Poultry Laboratories, Vineland, N. J. Germicide and deodorant. Serial No. 646,966, Dec. 29. Class 6.

Vitamin Store of Missouri, The, St. Louis, Mo. Vitamin capsules and tablets. Serial No. 646,585, Dec. 29. Class 18.

Vichek Tool Company, The, Cleveland, Ohio. Hose nozzles. Serial No. 639,681, Dec. 29. Class 13.

Wahlstrom, Oscar W., Alma, N. C. Plywood, veneer, and lumber core. Serial No. 638,560, Dec. 29. Class 12.

Watkins, J. R., Company, The, Winona, Minn. Hand lotion. Serial No. 635,562, Dec. 29. Class 51.

Watkins, J. R., Company, The, Winona, Minn. Men's hair dressing. Serial No. 649,264, Dec. 29. Class 51.

Weneko Tackle Co., Inc., Baltimore, Md. Sporting and recreation equipment. Serial No. 652,696, Dec. 29. Class 22.

Westinghouse Electric Corporation, Pittsburgh, Pa., and Baltimore, Md. Automatic X-ray control apparatus. Serial No. 631,514, Dec. 29. Class 26.

Westminster Shoe Co. Inc., Westminster, Md. Shoes. Serial No. 610,533, Dec. 29. Class 39.

White Laboratories, Inc., Kenilworth, N. J. Preparation intended for the treatment of gastric hyperacidity. Serial No. 648,452, Dec. 29. Class 18.

White Laboratories, Inc., Kenilworth, N. J. Preparation for the diagnosis of gastric function. Serial No. 648,453, Dec. 29. Class 18.

White Laboratories, Inc., Kenilworth, N. J. Antibiotic preparation. Serial No. 648,455, Dec. 29. Class 18.

Winslow Engineering Co., Oakland, Calif. Oil filters. Serial No. 644,084, Dec. 29. Class 31.

Wyeth Laboratories, Division of American Home Products Corporation: *See*—
American Home Products Corporation.

Younghusband, James L., Chicago, Ill. Dusting powder for the treatment of fungoid infection of the skin, hoof dressing, etc. Serial No. 646,707, Dec. 29. Class 18.

Zurlinden Products Company, Rocky River, Ohio. Bottle closures. Serial No. 580,638, Dec. 29. Class 50.

LIST OF REGISTRANTS OF TRADE-MARKS

A. M. S. Corporation, South Norwalk, Conn. Window sash. 584,201, Dec. 29; Serial No. 643,995, published Sept. 22, 1953. Class 12.

Aagesen, Walter J., Anderson, Ind. Absorbent surgical pads. 574,448, May 12, 1953. Canceled Nov. 20, 1953. O. G. Dec. 29. Class 44.

Adams Co., The: *See*—
Adams, M. W., Company.

Adams, M. W., Company, doing business under the name of The Adams Co., Philadelphia, Pa. Medicinal preparation. 584,197, Dec. 29; Serial No. 643,805, published Sept. 29, 1953. Class 18.

Adler, Albert, Philadelphia, Pa. Scarab jewelry. 584,121, Dec. 29; Serial No. 635,079, published Mar. 3, 1953. Class 28.

Agosta, Joseph, Astoria, N. Y. Antiseptic and medicated deodorant. 584,198, Dec. 29; Serial No. 643,807, published Oct. 6, 1953. Class 18.

Air-Rite, Inc., Milwaukee, Wis. Electrically heated insecticide vaporizers. 584,240, Dec. 29; Serial No. 629,539. Class 21.

Aktiebolaget B. A. Hjorth & Co., Stockholm, Sweden. Machine shafts, machine axles, apparatus for grinding knives and scissors, etc. 93,992, re-renewed Oct. 28, 1953. O. G. Dec. 29. Class 23.

Alfa Romeo Società per Azioni, Milan, Italy. Car bodies, motor cars, motorcycles, etc. 584,222, Dec. 29; Serial No. 646,098, published Oct. 6, 1953. Class 19.

American Biltrite Rubber Co., Inc., Chelsea, Mass. Shoe soles. 584,214, Dec. 29; Serial No. 644,589, published Sept. 29, 1953. Class 39.

American Cystoscope Makers, Inc., New York, N. Y. Nasopharyngoscopes and components thereof. 584,105, Dec. 29; Serial No. 632,343, published Sept. 8, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Lithotrites and rongeurs. 584,106, Dec. 29; Serial No. 632,345, published Sept. 8, 1953. Class 44.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopes and components thereof. 584,107, Dec. 29; Serial No. 632,346, published Sept. 8, 1953. Class 44.

Ames Company, Inc., Elkhart, Ind. Diagnostic reagent preparation for the determination of blood in fluids. 584,243, Dec. 29; Serial No. 632,067. Class 18.

Amfre Drug Co., Inc., New York, N. Y. Vaginal douche powder. 584,204, Dec. 29; Serial No. 644,092, published Sept. 29, 1953. Class 18.

Arachem Products, San Diego and East San Diego, Calif. Soil conditioners and fertilizers. 584,221, Dec. 29; Serial No. 646,041, published Oct. 6, 1953. Class 10.

Ardalt Inc., New York, N. Y. Porcelain vases; chinaware. 584,078–81, Dec. 29; Serials No. 624,584–7, published Aug. 18, 1953. Class 30.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Fountain creams. 584,237, Dec. 29; Serial No. 624,257. Class 51.

Armour and Company: *See*—
Decker, Jacob E., & Sons.

Artzt, William W., New York, N. Y. T-shirts, vests, cardigans, etc. 584,135, Dec. 29; Serial No. 637,473, published Sept. 29, 1953. Class 39.

Asbach & Co. (a Kommanditgesellschaft): *See*—
Asbach & Co. Aktiengesellschaft.

Asbach & Co. Aktiengesellschaft to Asbach & Co. (a Kommanditgesellschaft), Ruedesheim-on-the-Rhine, Germany. Cocoa, sweetened and unsweetened chocolate. 304,233, renewed June 27, 1953. O. G. Dec. 29. Class 46.

Asbach & Co. Aktiengesellschaft to Asbach & Co. (a Kommanditgesellschaft), Ruedesheim-on-the-Rhine, Germany. Wines. 304,235, renewed June 27, 1953. O. G. Dec. 29. Class 47.

BJ Service, Inc., Long Beach, Calif. Cement additive and extender. 584,122, Dec. 29; Serial No. 635,215, published Aug. 18, 1953. Class 12.

Bahlsens, H., Keksfabrik K. G., Hannover, Germany. Baking chocolate, chocolate candy, cooking chocolate, etc. 584,241, Dec. 29; Serial No. 629,940. Class 46.

Barker Bros. Incorporated, Los Angeles, Calif. Mattresses and bed-springs. 321,801, Feb. 12, 1935. Canceled Nov. 30, 1953. O. G. Dec. 29. Class 32.

Bates Shoe Company, Webster, Mass. Men's shoes. 584,133, Dec. 29; Serial No. 636,268, published Sept. 1, 1953. Class 39.

Bauer Alphabets Inc., New York, N. Y. Printing type. 584,208, Dec. 29; Serial No. 644,275, published Oct. 6, 1953. Class 14.

Baumat A. G., Zurich, Switzerland. Machines for dividing and separating clay; stationary and portable machines, road construction and paving equipment, etc. 584,055, Dec. 29; Serial No. 612,890, published Apr. 21, 1953. Class 23.

Beauty Counselors, Inc., Grosse Pointe, Mich. Nail polish, nail polish remover, cuticle cleanser, etc. 584,130, Dec. 29; Serial No. 636,059, published Sept. 15, 1953. Class 51.

Bell Publishing Company, Temple, Tex. Daily newspaper. 307,243, renewed Oct. 17, 1953. O. G. Dec. 29. Class 38.

Bennett Glass & Paint Company, Salt Lake City, Utah. Self-polishing floor wax and paste floor wax. 306,793, Sept. 26, 1933. Corrected. O. G. Dec. 29. Class 4.

Berghoff Brewing Corporation, Fort Wayne, Ind. Malt beverage. 304,472, renewed July 11, 1953. O. G. Dec. 29. Class 48.

Biltrite Motor Equipment Co. Inc., New York, N. Y. Motor vehicle brake-renewer compounds, fabric dry cleaner compounds, etc. 306,773, renewed Sept. 26, 1953. O. G. Dec. 29. Class 4.

Bird, Alfred, & Sons: *See*—
Bird, Alfred, and Sons.

Bird, Alfred, and Sons, Limited, to Alfred Bird & Sons, Limited, Birmingham, England. Custard powder, egg powder, and blanc-mange powder. 93,960, re-renewed Oct. 28, 1953. O. G. Dec. 29. Class 46.

Black & Decker Manufacturing Company, The, Towson, Md. Electric portable valve seat grinders and parts thereof. 306,961, Oct. 10, 1933. Republished Dec. 29. Class 21.

Bond-Howell Lumber Company, assignor to Con-Dor Corporation of America, Jacksonville, Fla. Packaged door units. 584,127, Dec. 29; Serial No. 635,682, published Sept. 15, 1953. Class 12.

Booster Chemical & Engineering Co.: *See*—
Windsor-Lloyd Products, Inc.

Brand, Charles, and Sons, New York, N. Y. Men's hosiery. 584,175, Dec. 29; Serial No. 642,609, published Sept. 22, 1953. Class 39.

Brevitt Shoes Limited, Leicester, England. Boots, shoes, and slippers. 584,114, Dec. 29; Serial No. 633,237, published Sept. 29, 1953. Class 39.

British Columbia Forest Products Limited, Vancouver, British Columbia, Canada. Shingles. 584,163, Dec. 29; Serial No. 641,009, published Aug. 18, 1953. Class 12.

Bronislawa: *See*—
Wolocko, Bronislawa.

Brown & Wells, Inc., Boston, Mass., to R. Wells, New Boston, N. H. Four-in-hand neckties. 306,678, renewed Sept. 26, 1953. O. G. Dec. 29. Class 39.

Burlington County Shoe Corporation, Mount Holly, N. J. Shoes and slippers. 584,045, Dec. 29; Serial No. 607,155, published Sept. 29, 1953. Class 39.

Burns & Russell Company of Baltimore City, The, Baltimore, Md. Molded masonry building blocks and bricks. 584,145, Dec. 29; Serial No. 639,552, published Aug. 18, 1953. Class 12.

California Underwear Company, Inc., Dallas, Tex. Hosiery. 584,108, Dec. 29; Serial No. 632,465, published Sept. 29, 1953. Class 39.

Callaway Mills to Callaway Mills Company, La Grange, Ga. Awning cord, binder twine, braided lacing cord, etc. 309,126, renewed Jan. 2, 1954. O. G. Dec. 29. Class 7.

Callaway Mills, to Callaway Mills Company, LaGrange, Ga. Ironing board sets, nets for laundry and dye house use, tailored ironing board pads, etc. 309,335, renewed Jan. 9, 1954. O. G. Dec. 29. Class 24.

Callaway Mills, to Callaway Mills Company, LaGrange, Ga. Carpet yarn, chenille yarn, cop yarn, etc. 309,336, renewed Jan. 9, 1954. O. G. Dec. 29. Class 43.

Callaway Mills, to Callaway Mills Company, LaGrange, Ga. Made up seat covers, stool covers, toilet seat covers, etc. 310,270, renewed Feb. 13, 1954. O. G. Dec. 29. Class 32.

Callaway Mills Company: *See*—
Callaway Mills.

Cambridge Rubber Company, The, Cambridge, Mass., and Taneytown, Md. Shoes. 584,087, Dec. 29; Serial No. 627,926, published Sept. 29, 1953. Class 39.

Capital Plastics, Inc., Rochester, N. Y. Thermosetting resins. 584,094, Dec. 29; Serial No. 629,649, published June 9, 1953. Class 6.

Capozzi, Daniel J., doing business under the name of Danvin Associates, New York, N. Y. Sunglasses. 584,167, Dec. 29; Serial No. 641,715, published Aug. 4, 1953. Class 26.

Capp, M., Manufacturing Co.: *See*—
Capp, Martin.

Capp, Martin, doing business as M. Capp Manufacturing Co., Minneapolis, Minn. Prefabricated, or pre-cut homes. 584,110, Dec. 29; Serial No. 632,918, published Sept. 15, 1953. Class 12.

Caribbean Clothing Corporation, Mayaguez, P. R. Men's suits, sports and leisure jackets, slacks, etc. 584,044, Dec. 29; Serial No. 606,267, published Mar. 18, 1952. Class 39.

Cavendish Chemical Corporation, New York, N. Y., to Cavendish Pharmaceutical Corporation, Newark, N. J. Antiseptic preparations. 301,487, renewed Mar. 7, 1953. O. G. Dec. 29. Class 18.

Cavendish Pharmaceutical Corporation: *See*—
Cavendish Chemical Corporation.

Ceramatex Manufacturing Corporation, Birmingham, Ala. Paint. 584,091, Dec. 29; Serial No. 629,353, published Sept. 22, 1953. Class 16.

Chase, Henry, Chicago, Ill. Non-skid coating to be applied to the under-surface of rugs. 584,239, Dec. 29; Serial No. 628,089. Class 6.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. 584,188, Dec. 29; Serial No. 643,645, published Sept. 29, 1953. Class 18.

Chippewa Falls Woolen Mill Company, Chippewa Falls, Wis. Shirts, coats, jackets, etc. 584,071, Dec. 29; Serial No. 622,804, published Aug. 11, 1953. Class 39.

Cobey Corporation, The: *See*—
Cutaway Harrow Company, The.
Orkil, Incorporated.

Codo Manufacturing Corporation, Coraopolis, Pa., to Codo Manufacturing Corporation, Coraopolis, Pa., and Chicago, Ill. Carbon papers. 307,647, renewed Oct. 31, 1953. O. G. Dec. 29. Class 11.

Codo Manufacturing Corporation, Coraopolis, Pa., to Codo Manufacturing Corporation, Coraopolis, Pa., and Chicago, Ill. Typewriter ribbons and carbon papers. 307,749, renewed Oct. 31, 1953. O. G. Dec. 29. Class 11.

Codo Manufacturing Corporation, Coraopolis, Pa., to Codo Manufacturing Corporation, Coraopolis, Pa., and Chicago, Ill. Typewriter ribbons. 307,917, renewed Nov. 14, 1953. O. G. Dec. 29. Class 11.

Codo Manufacturing Corporation, Coraopolis, Pa., to Codo Manufacturing Corporation, Coraopolis, Pa., and Chicago, Ill. Typewriter ribbons and carbon papers. 309,151, renewed Jan. 2, 1954. O. G. Dec. 29. Class 11.

Coggins, George B., Asheville, N. C. Disposable apertured facial masks. 584,042, Dec. 29; Serial No. 605,297, published Sept. 15, 1953. Class 44.

Cohen, Harry A., West Berlin, N. J. Automobiles. 584,035, Dec. 29; Serial No. 574,896, published Oct. 6, 1953. Class 19.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Dental cream. 310,023, renewed Feb. 6, 1954. O. G. Dec. 29. Class 51.

Collins, Tom, Jr., Co., The, to Grandpa Brands Company, Cincinnati, Ohio. Nonalcoholic, maltless beverages. 307,903, renewed Nov. 7, 1953. O. G. Dec. 29. Class 45.

Columbus Auto Parts Company, The, Columbus, Ohio. Vehicular steering connections. 584,120, Dec. 29; Serial No. 634,730, published Oct. 6, 1953. Class 19.

Colvilles Limited, Glasgow, Scotland, Great Britain. Metal plates, sections or bars, and metal tubing stock. 584,117, Dec. 29; Serial No. 633,753, published Oct. 6, 1953. Class 14.

Comoy, H., & Co., Limited, London, England. Tobacco pipes. 584,138, Dec. 29; Serial No. 639,019, published Sept. 29, 1953. Class 8.

Con-Dor Corporation of America, assignee: *See*—
Bond-Howell Lumber Company.

Congoleum-Nairn, Inc., Kearny, N. J. Flexible floor and wall coverings in the nature of linoleum and felt base. 584,095, Dec. 29; Serial No. 630,478, published Sept. 15, 1953. Class 20.

Congoleum-Nairn, Inc., Kearny, N. J. Linoleum, felt base, and similar flexible floor and wall coverings. 584,112, Dec. 29; Serial No. 633,196, published Sept. 8, 1953. Class 20.

Contress, Inc., New York, N. Y. Hair coloring powder. 584,098, Dec. 29; Serial No. 630,923, published Sept. 15, 1953. Class 51.

Coon, W. B., Company, Rochester, N. Y. Children's or juvenile shoes. 584,170, Dec. 29; Serial No. 642,019, published Sept. 29, 1953. Class 39.

Cover Lawn Seed Company: *See*—
Druid Hill Park Seed Corporation.

Crease and Cook Company, Danvers, Mass. Leather. 41,656, re-renewed Dec. 15, 1953. O. G. Dec. 29. Class 1.

Cuban Tobacco Company Inc.: *See*—
H. de Cabanas y Carbajal.

Cutaway Harrow Company, The, Higganum, Conn., to The Cobey Corporation, Galion, Ohio. Harrows, plows, etc. 25,802, Jan. 1, 1895. New certificate. O. G. Dec. 29. Class 23

Cynthia Sweets Company, East Boston, Mass., assignor to Francis H. Leggett & Company, New York, N. Y. Candies. 584,033, Dec. 29; Serial No. 539,286, published Dec. 30, 1952. Class 46.

Danvin Associates: *See*—
Capozzi, Daniel J.

Darby, E. H., trading as E. H. Darby & Company, Sheffield, Ala. Aluminum windows. 584,164, Dec. 29; Serial No. 641,177, published Aug. 18, 1953. Class 12.

Darby, E. H., & Company: *See*—
Darby, E. H.

Darmenindustrie H. Vaessen, Deventer, Netherlands. Phosphatic fat-binding agent. 584,155, Dec. 29; Serial No. 640,261, published Sept. 29, 1953. Class 46.

Davis Specialties Incorporated, Chicago, Ill. Flexible hose. 584,230, Dec. 29; Serial No. 647,573, published Sept. 29, 1953. Class 35.

Decker, Jacob E., & Sons, Mason City, Iowa, to Armour and Company, Chicago, Ill. Hams, bacon. 306,352, renewed Sept. 19, 1953. O. G. Dec. 29. Class 46.

Deerfield Groves Company, Wabasso, Fla. Fresh citrus fruits. 584,165, Dec. 29; Serial No. 641,371, published Apr. 7, 1953. Class 46.

Driver, Wilbur B., Company, Newark, N. J. Rod and wire formed of nickel-iron alloys. 584,128, Dec. 29; Serial No. 635,747, published Oct. 6, 1953. Class 14.

Druid Hill Park Seed Corporation, also doing business as Cover Lawn Seed Company, Baltimore, Md. Grass seeds. 584,131–2, Dec. 29; Serial Nos. 636,212–13, published Sept. 8, 1953. Class 1.

Dunlop Milling Company, The, Clarksville, Tenn. Self-rising wheat-flour. 94,891, Jan. 13, 1914. Amended. O. G. Dec. 29. Class 46.

Duroloid Optical Company, Providence, R. I. Optical frames. 584,109, Dec. 29; Serial No. 632,833, published Aug. 4, 1953. Class 26.

Duron Paint Manufacturing Company, Washington, D. C. Ready-mixed paint, varnishes, wood stains, etc. 584,209–10, Dec. 29; Serial Nos. 644,396–7, published Sept. 15, 1953. Class 16.

Dyestuffs and Chemicals, Inc., doing business as The Dykem Company, St. Louis, Mo. Liquid coating for metal and through which the latter may be scribed. 584,065, Dec. 29; Serial No. 620,093, published Sept. 29, 1953. Class 6.

Dykem Company, The: *See*—
Dyestuffs and Chemicals, Inc.

E. Mathey-Tissot & Cie., S. A.: *See*—
E. Mathey-Tissot et Co.

E. Mathey-Tissot et Co., Les Ponts de Martel, Neuchatel, to E. Mathey-Tissot & Cie., S. A., Ponts-de-Martel, Switzerland. Watches and clocks and parts thereof. 346,198, May 18, 1937. New certificate. O. G. Dec. 29. Class 27.

E-Z Products: *See*—
Steckler, Nat P.

Eagle Pencil Company, to Eagle Pencil Company, New York, N. Y. Lead-pencils and pencil-holders. 94,806, re-renewed Jan. 6, 1954. O. G. Dec. 29. Class 37.

Earthen Products Company, Houston, Tex. Ground amorphous raw clay and amorphous fuller's earth. 309,364, renewed Jan. 9, 1954. O. G. Dec. 29. Class 1.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Vitamin compounds and vitamin preparations. 584,189, Dec. 29; Serial No. 643,669, published Sept. 22, 1953. Class 18.

Edeleanu Gesellschaft m. b. H., Berlin, to Edeleanu Gesellschaft m. b. H., Frankfurt, Germany. Gasoline, illuminating oil, diesel oil, etc. 304,279, renewed June 27, 1953. O. G. Dec. 29. Class 15.

Ellis (L. S.) Equipment Company: *See*—
Holmboe, Lawrence S.

Fair, D. L., Lumber Company, Louisville, Miss. Finished lumber. 584,157, Dec. 29; Serial No. 640,394, published Aug. 18, 1953. Class 12.

Famous Mineral Water Co., Mineral Wells, Tex. Mineral crystals, and evaporated mineral water residue for the treatment of constipation, etc. 306,898, renewed Sept. 26, 1953. O. G. Dec. 29. Class 18.

Ferro Corporation, The, Cleveland, Ohio. Glass fiber matted sheet materials. 584,184, Dec. 29; Serial No. 643,415, published Sept. 8, 1953. Class 1.

Filler Products, Inc., Atlanta, Ga. Fried bacon rinds. 584,235, Dec. 29; Serial No. 607,985. Class 46.

Fink, William J., doing business as The Holford Co., to R. G. Laurie, doing business as The Holford Company, Minneapolis, Minn. Inhalants. 311,174, renewed Mar. 13, 1954. O. G. Dec. 29. Class 18.

"Flexitallic" Gasket Company, Camden, N. J., and Philadelphia, Pa., to Flexitallic Gasket Company, Camden, N. J. Gaskets and packings. 91,864, re-renewed June 3, 1953. O. G. Dec. 29. Class 35.

Folger, J. A., & Company, San Francisco, Calif. Coffee. 95,214, re-renewed Feb. 3, 1954. O. G. Dec. 29. Class 46.

Food Machinery and Chemical Corporation: *See*—
Gage, Ellsworth D.

Ford Motor Company Limited, London, England. Passenger automobiles and structural parts thereof. 584,125, Dec. 29; Serial No. 635,642, published Oct. 6, 1953. Class 19.

Foster, Benjamin, Company, Philadelphia, Pa. Lagging cloth and lagging tape. 584,174, Dec. 29; Serial No. 642,346, published Aug. 18, 1953. Class 12.

Foundation Worsted Mills: *See*—
Washougal Woolen Mills.

Frank, L. L., Co.: *See*—
French Kitchen Foods Corporation.

Franklin Research Company, Philadelphia, Pa. Water and wax emulsions. 310,716, renewed Mar. 6, 1954. O. G. Dec. 29. Class 4.

Freeman, H., & Son, Inc., Philadelphia, Pa. Men's suits. 584,126, Dec. 29; Serial No. 635,645, published Sept. 29, 1953. Class 39.

French Kitchen Foods Corporation, to L. L. Frank Co., Los Angeles, Calif. Onion soup. 363,341, Dec. 20, 1938. New certificate. O. G. Dec. 29. Class 46.

Friday Harbor Canning Company, Friday Harbor, Wash. Salmon. 584,242, Dec. 29; Serial No. 632,026. Class 46.

Frohlich, Israel, doing business as Global Optical Co., New York, N. Y. Sun glasses and parts thereof. 584,063, Dec. 29; Serial No. 618,737, published Aug. 4, 1953. Class 26.

Gage, Ellsworth D., doing business as Rain Machine Sales Co., Oakland, to Food Machinery and Chemical Corporation, San Jose, Calif. Portable overhead irrigating systems. 306,994, renewed Oct. 10, 1953. O. G. Dec. 29. Class 13.

General Radio Company, Cambridge, Mass. Transformers. 311,091, renewed Mar. 13, 1954. O. G. Dec. 29. Class 21.

General Shoe Corporation, Nashville, Tenn. Shoes. 584,123, Dec. 29; Serial No. 635,259, published Sept. 29, 1953. Class 39.

General Tire & Rubber Company, The, Akron, Ohio. Rubber-to-fabric latex dips and rubber, plastic, and resin adhesive dispersions and solutions. 584,207, Dec. 29; Serial No. 644,231, published Oct. 6, 1953. Class 5.

Global Optical Co.: *See*—
Frohlich, Israel.

Goodman & Suss Clothes Corporation, New York, N. Y. Men's and young men's top coats, sport coats and overcoats. 584,211, Dec. 29; Serial No. 644,413, published Sept. 22, 1953. Class 39.

Graham, Von B., doing business as The Texas Ledge Stone Co., Clarksville, Ark. Building stone. 584,149, Dec. 29; Serial No. 639,698, published Aug. 18, 1953. Class 12.

Grandpa Brands Company: *See*—
Collins, Tom, Jr., Co., The.

Gulf Oil Corporation, Pittsburgh, Pa. Cutting oil. 584,103, Dec. 29; Serial No. 631,862, published Sept. 15, 1953. Class 15.

Gulf Oil Corporation, Pittsburgh, Pa. Insecticides. 584,223, Dec. 29; Serial No. 646,127, published Oct. 6, 1953. Class 6.

Gustin-Bacon Manufacturing Company, Kansas City, Mo. Acoustical insulation. 584,202, Dec. 29; Serial No. 644,031, published Aug. 18, 1953. Class 12.

H. de Cabanas y Carbajal, Jersey City, N. J., to Cuban Tobacco Company Inc., New York, N. Y. Cigars. 309,520, renewed Jan. 16, 1954. O. G. Dec. 29. Class 17.

Hamilton, J. W., Columbia, S. C. Diamonds, diamond rings, wedding rings, etc. 584,159–60, Dec. 29; Serial Nos. 640,681–2, published June 23, 1953. Class 28.

Harman, Edith, Springfield, Mo. Salad dressing. 584,185, Dec. 29; Serial No. 643,547, published Sept. 29, 1953. Class 46.

Harris Raincoat Company, Incorporated, New York, N. Y. Water repellent hats and caps. 584,217, Dec. 29; Serial No. 645,245, published Sept. 29, 1953. Class 39.

Hatco Chemical Company, Township of Kearny, Hudson County, N. J. Plasticizers. 584,190, Dec. 29; Serial No. 643,682, published Sept. 29, 1953. Class 6.

Heyden Chemical Corporation, New York, N. Y. Formaldehyde polymers. 584,139–42, Dec. 29; Serial Nos. 639,044–7, published Sept. 29, 1953. Class 6.

Holeproof Hosiery Company, Milwaukee, Wis. Men's hosiery. 584,199, Dec. 29; Serial No. 643,840, published Sept. 22, 1953. Class 39.

Holford Co., The: *See*—
Fink, William J.

Holford Company, The: *See*—
Fink, William J.

Holmboe, Lawrence S., doing business as Ellis (L. S.) Equipment Company, Oklahoma City, Okla. Shores (for concrete forms); shore clamps, shore-heads; scaffolding clamps; etc. 584,050, Dec. 29; Serial No. 609,976, published Aug. 18, 1953. Class 12.

Houdaille-Hershey Corporation: *See*—
Houde Engineering Corporation.

Houde Engineering Corporation, Buffalo, N. Y., to Houdaille-Hershey Corporation, Detroit, Mich. Shock absorber fluid. 305,688–9, renewed Aug. 22, 1953. O. G. Dec. 29. Class 6.

Houde Engineering Corporation, Buffalo, N. Y., to Houdaille-Hershey Corporation, Detroit, Mich. Shock absorber fluid. 306,514–15, renewed Sept. 19, 1953. O. G. Dec. 29. Class 15.

Houghton, E. F., & Co., Philadelphia, Pa. Solvents. 584,084, Dec. 29; Serial No. 627,446, published Sept. 29, 1953. Class 52.

Hudnut, Richard, New York, N. Y. Liquid hair bleach. 584,129, Dec. 29; Serial No. 635,767, published Aug. 4, 1953. Class 51.

Hydroponic Chemical Company, Inc., Copley, Ohio. Books and booklets. 584,220, Dec. 29; Serial No. 645,649, published Sept. 29, 1953. Class 38.

Hy-Pure Laboratories, Inc., Cincinnati, Ohio. Cold capsules. 584,034, Dec. 29; Serial No. 551,455, published Nov. 15, 1949. Class 18.

Illinois Watch Case Co.: *See*—
Rockford Watch Co. Ltd., The.

Illinois Watch Case Co., by Illinois Watch Case Co. (1941), Elgin, Ill. Watchcases. 39,586, Dec. 30, 1902. Republished Dec. 29. Class 27.

Illinois Watch Case Co. (1941): *See*—
Illinois Watch Case Co.

Inland Steel Company, Chicago, Ill. Steel. 584,097, Dec. 29; Serial No. 630,846, published Oct. 6, 1953. Class 14.

Insecticides Company, Nashville, Tenn. Insecticides, fungicides. 584,205, Dec. 29; Serial No. 644,120, published Oct. 6, 1953. Class 6.

Inter-Coastal Paint Corporation, East St. Louis, Ill. Chemical product for removing rust and scale from metal surfaces. 584,156, Dec. 29; Serial No. 640,277, published Oct. 6, 1953. Class 52.

International Shoe Company, St. Louis, Mo. Shoes. 584,060, Dec. 29; Serial No. 616,292, published Sept. 22, 1953. Class 39.

Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Brazing metal alloys, bearing metal alloys, babbitt metals, etc. 584,092, Dec. 29; Serial No. 629,438, published Oct. 6, 1953. Class 14.

Janesville Clothing Company, Janesville, Wis. Men's and boys' work shirts, etc. 351,091, Oct. 19, 1937. Canceled Nov. 27, 1953. O. G. Dec. 29. Class 39.

Jessop Products, Inc., New York, N. Y. Hair tonic, after shave lotion, estrogenic hormone cream, etc. 584,082, Dec. 29; Serial No. 625,205, published Sept. 15, 1953. Class 51.

Johns-Manville Corporation, New York, N. Y. Automotive brake blocks. 584,085, Dec. 29; Serial No. 627,512, published Oct. 6, 1953. Class 19.

Joseph Shoes Inc., Boston, Mass. Men's and women's shoes. 584,068, Dec. 29; Serial No. 620,559, published Sept. 29, 1953. Class 39.

Judson Nurseries: *See*—
Judson, Victor J.

Judson, Victor J., doing business as Judson Nurseries, Bristol, Ind. Strawberry plants. 584,064, Dec. 29; Serial No. 619,202, published Sept. 15, 1953. Class 1.

Kalart Company Inc., The, Plainville, Conn. Camera attachments and accessories. 584,049, Dec. 29; Serial No. 609,864, published July 28, 1953. Class 26.

Kalart Company Inc., The, Plainville, Conn. Film splicers, film winders, and carrying cases. 584,058, Dec. 29; Serial No. 615,712, published Aug. 4, 1953. Class 26.

Katakura Seishi Boseki Kabushiki Kaisha, Tokyo, Japan. Raw silk. 388,510, July 1, 1941. Amended. O. G. Dec. 29. Class 1.

Keasbey & Mattison Company, Ambler, Pa. Asbestos-cement sheets. 584,186, Dec. 29; Serial No. 643,595, published Aug. 18, 1953. Class 12.

Kentile, Inc., Brooklyn, N. Y. Adhesive. 584,143, Dec. 29; Serial No. 639,175, published Oct. 6, 1953. Class 5.

Kerr, Alexander H., and Company, Incorporated, Los Angeles, Calif. Structural glass panels. 584,153, Dec. 29; Serial No. 640,160, published June 23, 1953. Class 12.

King Laboratories, Inc., Syracuse, N. Y. Getters used in the evacuation of vacuum tubes. 306,643, renewed Sept. 26, 1953. O. G. Dec. 29. Class 6.

King Midas Feed Mills: *See*—
Van Dusen Harrington Company.

King-Seeley Corporation, Ann Arbor, Mich. Ammeters, oil pressure gauges, liquid level gauges, etc. 584,037, Dec. 29; Serial No. 588,495, published Aug. 4, 1953. Class 26.

Kroywen Coats, Inc., New York, N. Y. Misses' and ladies' coats and suits. 584,102, Dec. 29; Serial No. 631,669, published Jan. 20, 1953. Class 39.

Lacey Plywood Company, Inc., Lacey, Wash. Plywood and plywood blocks. 584,134, Dec. 29; Serial No. 637,053, published Aug. 18, 1953. Class 12.

Lally Column Co., Cambridge, Mass. Building columns. 584,161, Dec. 29; Serial No. 640,862, published Aug. 18, 1953. Class 12.

Lando Products, Inc., San Francisco, Calif. Venetian blind components. 584,076–7, Dec. 29; Serial Nos. 624,239–40, published Oct. 6, 1953. Class 14.

Larsen Company, The, Green Bay, Wis. Canned mixed vegetables. 584,124, Dec. 29; Serial No. 635,366, published Sept. 29, 1953. Class 46.

La Salle Products, Inc., St. Paul, Minn., by Nyal Company, Inc., New York, N. Y. Eau de quinine, hair tonic, shampoo, etc. 266,332, Jan. 14, 1930. Republished Dec. 29. Classes 51 and 52.

Laurie, Robert G.: *See*—
Fink, William J.

Lee Rubber and Tire Corporation: *See*—
Republic Rubber Company, The.

Leggett, Francis H., & Company, assignee: *See*—
Cynthia Sweets Company.

Leggett, Francis H., & Company, New York, N. Y. Canned berries, canned and bottled fruits, dried fruits, etc. 584,040, Dec. 29; Serial No. 600,492, published Mar. 25, 1952. Class 46.

Leighton, Joseph B., New York, N. Y., to J. B. Leighton, Miami, Fla. Table board game. 306,424, renewed Sept. 19, 1953. O. G. Dec. 29. Class 22.

Les Appareils de Précision Kinoptik S. A., Paris, France. Scientific, optical, photographic, and cinematographic apparatus, etc. 584,036, Dec. 29; Serial No. 581,964, published Aug. 4, 1953. Class 26.

Lesquendieu, Joseph, Paris, France. Nail polishes. 201,211, July 21, 1925. Canceled Nov. 30, 1953. O. G. Dec. 29. Class 51. (Formerly Class 6.)

Lewal Industries, Inc., New York, N. Y. Silver cleaning preparation. 584,083, Dec. 29; Serial No. 626,799, published Sept. 15, 1953. Class 52.

Liebovitz, S., & Sons, Inc., to Trubenizing Process Corporation, New York, N. Y. Dress and negligee shirts and collars. 310,927, renewed Mar. 13, 1954. O. G. Dec. 29. Class 39.

Limestone Products Corporation of America, Newton, N. J. Finely granulated calcite limestone. 584,168, Dec. 29; Serial No. 641,851, published Sept. 8, 1953. Class 1.

Linnea Perfumes, Inc., Chicago, Ill. Liquid shampoo. 584,152, Dec. 29; Serial No. 640,128, published Oct. 6, 1953. Class 52.

Loyless, Augustus S., doing business as Loyless Publishing Company, Atlanta, Ga. Monthly trade journal, etc. 426,493, Dec. 24, 1946. Canceled Nov. 19, 1953. O. G. Dec. 29. Class 38.

Loyless Publishing Company: *See*—
Loyless, Augustus S.

Loyless Publishing Company, Inc., Atlanta, Ga. Monthly trade journal, etc. 501,726, Aug. 17, 1948. Canceled Nov. 19, 1953. O. G. Dec. 29. Class 38.

Lucas Products Corporation, assignee: *See*—
Madison Products Company.

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Modified milk. 311,888, Apr. 10, 1934. Republished Dec. 29. Class 46.

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Condensed milk preparation. 371,247, Sept. 19, 1939. Republished Dec. 29. Class 46.

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Condensed milk preparation. 394,296, Mar. 31, 1942. Republished Dec. 29. Class 46.

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Condensed milk product. 432,084, Aug. 19, 1947. Republished Dec. 29. Class 46.

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Ice cream mix. 439,546, July 6, 1948. Republished Dec. 29. Class 46.

Madagascar Graphite and Mica Company, New York, N. Y. Textile cloth for use with other raw materials. 584,144, Dec. 29; Serial No. 639,181, published Sept. 15, 1953. Class 1.

Madison Products Company, assignor to Lucas Products Corporation, Toledo, Ohio. Opaque eye shields. 584,111, Dec. 29; Serial No. 633,112, published Sept. 15, 1953. Class 44.

Maine Potato Growers, Inc., Presque Isle, Maine. Automobiles, trucks, trailers, etc. 584,051, Dec. 29; Serial No. 610,371, published Oct. 6, 1953. Class 19.

Malter, George H., to St. George Winery, Fresno, Calif. Wines. 310,790, renewed Mar. 6, 1954. O. G. Dec. 29. Class 47.

Marshall-Wells Company, Duluth, Minn. Fishing lines, fishing rods and fishing reels. 584,232, Dec. 29; Serial No. 649,523, published Oct. 6, 1953. Class 22.

McIntyre Dairy Company, Saginaw, Mich. Collapsible cardboard cartons. 584,233, Dec. 29; Serial No. 605,667. Class 2.

Mead Johnson & Company, Evansville, Ind. Fructose. 584,177, Dec. 29; Serial No. 642,829, published Sept. 29, 1953. Class 18.

Mead Johnson & Company, Evansville, Ind. Pharmaceutical preparations. 584,218–19, Dec. 29; Serial Nos. 645,494–5, published Sept. 29, 1953. Class 18.

Menihan, Jeremiah G., Rochester, N. Y. Women's shoes. 584,090, Dec. 29; Serial No. 628,951, published Sept. 8, 1953. Class 39.

Mennen Company, The, Newark, N. J. Personal deodorant. 584,053, Dec. 29; Serial No. 612,026, published Aug. 25, 1953. Class 51.

Mercantile Stores Company, Inc., Wilmington, Del. Women's hosiery. 584,047, Dec. 29; Serial No. 608,508, published Sept. 22, 1953. Class 39.

Miller Manufacturing Co., East Providence, R. I. Jewelry. 584,234, Dec. 29; Serial No. 607,715. Class 28.

Minnesota Rubber and Gasket Co., St. Louis Park, Minn. Seal rings. 584,213, Dec. 29; Serial No. 644,562, published Sept. 29, 1953. Class 35.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resins. 584,043, Dec. 29; Serial No. 605,965, published Oct. 6, 1953. Class 6.

Moran, Vic, Bradford, Pa. Toy coin banks. 584,054, Dec. 29; Serial No. 612,814, published Oct. 6, 1953. Class 22.

Morris, Philip, & Co. Ltd. Incorporated, New York, N. Y. Cigarettes. 584,181, Dec. 29; Serial No. 643,043, published Sept. 8, 1953. Class 17.

Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Candles. 584,193, Dec. 29; Serial No. 643,772, published Sept. 15, 1953. Class 15.

Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Candles. 584,194, Dec. 29; Serial No. 643,778, published Sept. 15, 1953. Class 15.

Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Candles. 584,195, Dec. 29; Serial No. 643,780, published Sept. 15, 1953. Class 15.

Myers, Philip R., New York, N. Y. Whiskey, gin, rum, etc. 377,839, May 14, 1940. Canceled Nov. 20, 1953. O. G. Dec. 29. Class 49.

National Chemical Company, Los Angeles, Calif. Fuel oil additives. 584,212, Dec. 29; Serial No. 644,434, published Sept. 15, 1953. Class 15.

National Laboratories, Inc., Toledo, Ohio. Self-polishing wax. 584,166, Dec. 29; Serial No. 641,460, published Sept. 15, 1953. Class 4.

National Milling and Chemical Company, Philadelphia, Pa. Soap compound. 300,473, Jan. 24, 1933. Republished Dec. 29. Class 52.

National Steel Corporation, Wilmington, Del., and Pittsburgh, Pa. Copper bearing ferrous base alloy sheets. 584,115, Dec. 29; Serial No. 633,373, published Oct. 6, 1953. Class 14.

Neilson Chemical Company, Detroit, Mich. Chemical and detergent preparation. 444,793, Dec. 29; Serial No. 489,918, published July 9, 1946. Class 52.

Nelson, Jimmy, Enterprises, Inc., Chicago, Ill. Ventriloquist dummies. 584,231, Dec. 29; Serial No. 649,321, published Oct. 6, 1953. Class 22.

Neushaefer, Helen, Inc., College Point, N. Y., formerly A. Sartorius & Co., Inc. Nail polish. 584,059, Dec. 29; Serial No. 615,727, published Aug. 25, 1953. Class 51.

New England Fish Company, Seattle, Wash. Canned salmon. 293,715, May 3, 1932. Republished Dec. 29. Class 46.

New Way Pattern Company, Inc., The, New York, N. Y. Dress patterns. 584,169, Dec. 29; Serial No. 641,950, published Aug. 4, 1953. Class 26.

Nice Company, The: *See*—
Rolfs, David J.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Compound for the treatment of coughs. 251,727, Jan. 15, 1929. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Preparation used in the treatment of rheumatic fever. 370,620, Aug. 29, 1939. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Lozenge. 370,638, Aug. 29, 1939. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Ear ache drops. 370,641, Aug. 29, 1939. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Eye drops. 374,928, Jan. 30, 1940. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Hot water bottles, fountain syringes, and combination fountain syringes, etc. 375,318, Feb. 13, 1940. Republished Dec. 29. Class 44.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Medicinal preparation. 384,411, Jan. 21, 1941. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. General tonic. 384,895, Feb. 4, 1941. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Medicinal preparation. 385,249–50, Feb. 18, 1941. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Intestinal astringent. 393,697, Feb. 24, 1942. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Mouth wash. 400,121, Feb. 16, 1943. Republished Dec. 29. Class 51.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Hair dressing. 400,123, Feb. 16, 1943. Republished Dec. 29. Class 51.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Antiseptic mouth wash. 400,124, Feb. 16, 1943. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Preparation for the treatment of irritations of the skin. 400,126, Feb. 16, 1943. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Preparation for the relief of pain. 400,127, Feb. 16, 1943. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Antacid for relief of excessive gastric acidity. 402,129, June 29, 1943. Republished Dec. 29. Class 18.

Nyal Company, Detroit, Mich., by Nyal Company, Inc., New York, N. Y. Foot powder. 407,398, June 6, 1944. Republished Dec. 29. Class 51.

Nyal Company, Inc.: *See*—
La Salle Products, Inc.
Nyal Company.

Nyanza Color & Chemical Co., Inc., New York, N. Y. Liquid chemical product. 310,157, renewed Feb. 13, 1954. O. G. Dec. 29. Class 6.

Orkil, Incorporated, East Hartford and Higganum, Conn., to The Cobey Corporation, Galion, Ohio. Agricultural implements. 533,214, Nov. 7, 1950. New certificate. O. G. Dec. 29. Class 23.

Orkil, Incorporated, East Hartford, Conn., to The Cobey Corporation, Galion, Ohio. Hydraulic ram assembly etc. 548,731, Sept. 25, 1951. New certificate. O. G. Dec. 29. Class 23.

Park Avenue Perfumers Associates, Detroit, Mich. Perfume. 584,075, Dec. 29; Serial No. 624,050, published Sept. 15, 1953. Class 51.

Patchogue-Plymouth Mills Corporation, New York, N. Y. Lace curtains. 311,136, renewed Mar. 13, 1954. O. G. Dec. 29. Class 42.

Patten, Lee, Seed Company, Jersey City, N. J. Lawn seed mixture. 584,146, Dec. 29; Serial No. 639,577, published Sept. 8, 1953. Class 1.

Patten, Lee, Seed Company, Jersey City, N. J. Lawn seed mixture. 584,147–8, Dec. 29; Serial Nos. 639,579–80, published Sept. 8, 1953. Class 1.

Pedigreed Seed Co., New York, N. Y. Lawn grass seed. 584,046, Dec. 29; Serial No. 607,349, published Aug. 18, 1953. Class 1.

Pe Kay Leather Products, Inc., doing business as Saddle-Craft Shoe Company, Knoxville, Tenn. Hand-made sandals. 584,116, Dec. 29; Serial No. 633,554, published Sept. 1, 1953. Class 39.

Pen Boys, Manny, Moe & Jack, The, Philadelphia, Pa. High pressure lubricants, motor lubricating oils, transmission and differential lubricants. 310,199, renewed Feb. 13, 1954. O. G. Dec. 29. Class 15.

Petersen, P. F., Baking Company: *See*—
Petersen & Pegau Baking Co.

Petersen & Pegau Baking Co., now by change of name P. F. Petersen Baking Company, Omaha, Nebr. Bread. 190,771, Oct. 21, 1924. Amended. O. G. Dec. 29. Class 46.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic derivative. 584,178, Dec. 29; Serial No. 642,899, published Sept. 29, 1953. Class 18.

Pharmaco, Inc., Kenilworth, N. J. Oral antiseptic, deodorant preparation. 580,010, Sept. 15, 1953. Amended. O. G. Dec. 29. Class 18.

Photocircuits Corporation, Glen Cove, N. Y. Electric circuit components. 584,247, Dec. 29; Serial No. 641,689. Class 21.

Pierce Laboratory, Inc., Raritan, N. J. Thermostats. 584,048, Dec. 29; Serial No. 609,312, published July 28, 1953. Class 26.

Pillsbury Flour Mills Company, to Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 93,904, re-renewed Oct. 21, 1953. O. G. Dec. 29. Class 46.

Pillsbury Flour Mills Company, to Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 306,600, renewed Sept. 26, 1953. O. G. Dec. 29. Class 46.

Pillsbury Mills, Inc.: *See*—
Pillsbury Flour Mills Company.

Pioneer Company, The, Chicago, Ill. Electric switch mechanism for switching tracks for model trains. 584,067, Dec. 29; Serial No. 620,551, published Oct. 6, 1953. Class 22.

Plant Protection Limited, Yalding, Kent, England. Fungicides, fumigants, etc. 584,066, Dec. 29; Serial No. 620,231, published Sept. 29, 1953. Class 6.

Polk Miller Products Corporation, Richmond, Va. Tick powder and flea powder. 584,244, Dec. 29; Serial No. 633,214. Class 6.

Pollock Paper Corporation, Dallas, Tex., assignor to Quaker Waxed Products Corporation, Philadelphia, Pa. Waxed paper. 560,311, June 17, 1952. Canceled Nov. 30, 1953. O. G. Dec. 29. Class 37.

Pure Milk Association, Chicago, Ill. Milk. 306,985, renewed Oct. 10, 1953. O. G. Dec. 29. Class 46.

Purepac Corporation, New York, N. Y. Medicated skin cream. 584,196, Dec. 29; Serial No. 643,790, published Sept. 29, 1953. Class 18.

Quaker Waxed Products Corporation, assignee: *See*—
Pollock Paper Corporation.

Qualcast Limited, Derby, England. Lawn mowers and parts thereof. 307,175, renewed Oct. 17, 1953. O. G. Dec. 29. Class 23.

Quercia, Marcel, Paris, France. Cigar and/or cigarette lighters. 584,096, Dec. 29; Serial No. 630,648, published Aug. 11, 1953. Class 8.

Rain Machine Sales Co.: *See*—
Gage, Ellsworth D.

Rajowalt Company, Warsaw, Ind. Fracture and surgical appliances. 584,118, Dec. 29; Serial No. 634,019, published Sept. 15, 1953. Class 44.

Ranco Incorporated, Columbus, Ohio. Temperature responsive mechanism for controlling automatic refrigerators, temperature responsive mechanisms for controlling heaters, etc. 584,070, Dec. 29; Serial No. 622,557, published Aug. 18, 1953. Class 26.

Rand Rubber Co.: *See*—
Rand Rubber Company, Inc.

Rand Rubber Company, Inc., trading as Rand Rubber Co., Brooklyn, N. Y. Water repellent baby pants. 584,154, Dec. 29; Serial No. 640,168, published Sept. 1, 1953. Class 39.

Raney Catalyst Company, The: *See*—
Raney, Murray.

Raney, Murray, sometimes doing business as The Raney Catalyst Company, Chattanooga, Tenn. Catalyst. 584,119, Dec. 29; Serial No. 634,023, published Oct. 6, 1953. Class 6.

Redwood Sales Company, San Francisco, Calif. Lumber. 584,061, Dec. 29; Serial No. 617,554, published Aug. 18, 1953. Class 12.

Reming'on Arms Company, Inc.: *See*—
Union Metallic Cartridge Company, The.

Rentner, Maurice, Inc., New York, N. Y. Ladies' hosiery. 584,086, Dec. 29; Serial No. 627,898, published Apr. 7, 1953. Class 39.

Republic Rubber Company, The, to Lee Rubber and Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio. Floor and table coverings. 311,100, renewed Mar. 13, 1954. O. G. Dec. 29. Class 50.

Republic Rubber Company, The, to Lee Rubber and Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio. Rubber composition padding. 311,101, renewed Mar. 13, 1954. O. G. Dec. 29. Class 50.

Republic Rubber Division: *See*—
Republic Rubber Company, The.

Roadcraft Corporation, Gardena, Calif. House trailers. 584,229, Dec. 29; Serial No. 647,448, published Oct. 6, 1953. Class 19.

Robinson Clay Product Co., The, Akron, Ohio. Refractory bricks and blocks. 584,172, Dec. 29; Serial No. 642,243, published Aug. 18, 1953. Class 12.

Rockford Watch Co. Ltd., The, Rockford, to Illinois Watch Case Co., Elgin, Ill. Watch-movements. 93,205, renewed Aug. 26, 1953. O. G. Dec. 29. Class 27.

Rogers, Mary P., Hilo, Hawaii. Gardenia plants. 584,182, Dec. 29; Serial No. 643,375, published Sept. 8, 1953. Class 1.

Rohlfs, Donald F., Bridgehampton, N. Y. Powder containing calcium hydroxide and thymol for use in pulp capping and cavity lining. 584,171, Dec. 29; Serial No. 642,168, published Oct. 6, 1953. Class 44.

Rohm & Haas Company, Philadelphia, Pa. Insecticides, fungicides, and disinfectants. 584,215, Dec. 29; Serial No. 644,870, published Oct. 6, 1953. Class 6.

Rolfs, David J., doing business as The Nice Company, Barton, Wis. Personal deodorant and anti-perspiration preparations. 584,052, Dec. 29; Serial No. 610,991, published Aug. 25, 1953. Class 51.

Roxborough Company, The, Philadelphia, Pa. Ladies' full fashioned and seamless nylon hosiery. 584,187, Dec. 29; Serial No. 643,612, published Sept. 22, 1953. Class 39.

Royal Engineering Co., East Hanover, N. J. Lubricant. 584,099, Dec. 29; Serial No. 630,961, published Sept. 15, 1953. Class 15.

Saddle-Craft Shoe Company: *See*—
Pe Kay Leather Products, Inc.

St. George Winery: *See*—
Malter, George H.

Sartorius, A., & Co., Inc.: *See*—
Neushaefer, Helen, Inc.

Scanlon, Edward H., doing business as Westlake Horticultural Estab., Cleveland, Ohio. Natural trees. 584,056, Dec. 29; Serial No. 613,652, published Sept. 15, 1953. Class 1.

Schenley Laboratories, Inc., New York, N. Y. Cortisone acetate compound for general hormone therapy. 584,203, Dec. 29; Serial No. 644,069, published Sept. 22, 1953. Class 18.

Schiaparelli, Elsa: *See*—
Societe Anonyme Schiaparelli.

Schultz Products Company, Inc., St. Louis, Mo. Liquid coating preparation. 584,248, Dec. 29; Serial No. 645,341. Class 16.

Schweitzer, Peter J., Inc., Elizabeth, N. J., to Peter J. Schweitzer, Inc., New York, N. Y. Cigarette paper. 310,447, renewed Feb. 27, 1954. O. G. Dec. 29. Class 8.

Sears, Roebuck and Co., Chicago, Ill. Arbors, pergolas, trellises, etc. 584,158, Dec. 29; Serial No. 640,587, published Aug. 18, 1953. Class 12.

Selby Shoe Company, The, Portsmouth, Ohio. Women's shoes. 584,137, Dec. 29; Serial No. 638,441, published Sept. 22, 1953. Class 39.

Shallte Corporation, Knoxville, Tenn. Aggregate and articles manufactured from such aggregate. 584,236, Dec. 29; Serial No. 621,635. Class 12.

Simmons Company, New York, N. Y. Mattresses. 309,614, renewed Jan. 23, 1954. O. G. Dec. 29. Class 32.

Simenth, Clifton L., Saluda, S. C. Liniment. 584,226, Dec. 29; Serial No. 646,495, published Oct. 6, 1953. Class 18.

Singer Manufacturing Company, The, Elizabeth, N. J. 584,089, Dec. 29. Thermoplastic material in the form of sheets and strips, Serial No. 640,133, published July 28, 1953, Class 1; dust bags and receptacles, Serial No. 628,562, published May 12, 1953, Class 2; traveling cases, Serial No. 628,563, published Mar. 3, 1953, Class 3; emery cord, Serial No. 628,564, published May 19, 1953, Class 4; belt hooks and cabinet and furniture hardware, Serial No. 628,566, published May 5, 1953, Class 13; lubricating oil and greases, Serial No. 628,567, published Apr. 28, 1953, Class 15; electric motors, electro-mechanical drives, electric transmitters, etc., Serial No. 629,259, published Mar. 31, 1953, Class 21; toy sewing machines, dolls, dolls' clothes, and toy traveling cases, Serial No. 628,568, published May 5, 1953, Class 22; family and commercial sewing machines, darning, embroidery, article fastening, etc. machines, etc., Serial No. 629,260, published June 23, 1953, Class 23; pressing machines; ironing boards, sleeve boards, etc., Serial No. 628,569, published May 5, 1953, Class 24; locks and keys, Serial No. 628,570, published Aug. 4, 1953, Class 25; thermoelectric testing devices, and measuring devices, Serial No. 628,571, published May 5, 1953, Class 26; cabinets, stools, chairs, etc., Serial No. 628,572, published May 12, 1953, Class 32; room heaters and fans for room heaters, Serial No. 628,573, published May 26, 1953, Class 34; V-belts, cord belts, composition belts, etc., Serial No. 628,574, published Oct. 7, 1952, Class 35; marking chalk, Serial No. 630,806, published May 5, 1953, Class 37; books, pamphlets, educational leaflets, etc., Serial No. 628,575, published Apr. 7, 1953, Class 38; hand sewing needles; needle threaders; needle cases; etc., Serial No. 629,261, published May 5, 1953, Class 40; piece goods, Serial No. 630,622, published May 12, 1953, Class 42; sewing thread, Serial No. 630,623, published May 12, 1953, Class 43; surgical stitching instruments, their parts and attachments, Serial No. 628,576, published May 19, 1953, Class 44; dress forms and dress form stands, Serial No. 628,577, published Feb. 24, 1953, Class 50; petroleum derivatives for use in cleaning metallic machine elements, Serial No. 628,565, published May 19, 1953, Class 52. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

Smart Maid Coat & Suit Corp., New York, N. Y. Girls' and misses' and women's coats. 584,216, Dec. 29; Serial No. 645,012, published Sept. 29, 1953. Class 39.

Smith, X. S., Inc., Red Bank, N. J. Pads formed of metallic filaments for garment pressing machines. 584,150–1, Dec. 29; Serial Nos. 639,847–8, published Oct. 6, 1953. Class 24.

Societe Anonyme Schiaparelli to Elsa Schiaparelli, Paris, France. Women's wearing apparel and accessories. 307,089, renewed Oct. 17, 1953. O. G. Dec. 29. Class 39.

Sprayo-Flake Company, Chicago, Ill. Fibrous materials for use in thermal and acoustical insulation, and adhesives and binders. 584,057, Dec. 29; Serial No. 614,854, published Aug. 18, 1953. Class 12.

Steckler, Nat P., doing business under the name and style of E-Z Products, New York, N. Y. Ear drum protectors for therapeutic purposes, and athletic supporters. 584,113, Dec. 29; Serial No. 633,224, published Sept. 15, 1953. Class 44.

Steinfeld Blouse and Sportswear Corp., New York, N. Y. Women's and misses' blouses, jackets, skirts, and dresses. 584,041, Dec. 29; Serial No. 602,573, published June 12, 1951. Class 39.

Steri-Wite Corporation, The, New York, N. Y. Sanitizing detergent. 584,179, Dec. 29; Serial No. 643,002, published Sept. 15, 1953. Class 52.

Sternberg, Norman, Newark, N. J. Life insurance bulletins. 584,074, Dec. 29; Serial No. 623,994, published Sept 29, 1953. Class 38.

Stineway Drug Company, Chicago, Ill. Women's hosiery. 580,175, Sept. 22, 1953. Corrected. O. G. Dec. 29. Class 39.

Studio Publications, Inc., The, New York, N. Y. Magazines. 309,300, renewed Jan. 9, 1954. O. G. Dec. 29. Class 38.

Sun Rubber Company, The, Barberton, Ohio. Dolls. 584,227, Dec. 29; Serial No. 646,901, published Oct. 6, 1953. Class 22.

Sun Rubber Company, The, Barberton, Ohio. Dolls. 584,228, Dec. 29; Serial No. 646,905, published Oct. 6, 1953. Class 22.

Surveyor's Service Company, Los Angeles, Calif. Surveying instruments. 584,073, Dec. 29; Serial No. 623,780, published July 28, 1953. Class 26.

Sweet Frost Packing Company, Little Rock, Ark. Frozen food. 584,238, Dec. 29; Serial No. 627,985. Class 46.

Synthetic Nitrogen Products Corporation, New York, N. Y. Fertilizers. 244,000, July 3, 1928. Amended. O. G. Dec. 29. Class 10.

Telecomputing Corporation, Burbank, Calif. Electronically operated plotting apparatus for transferring data from IBM cards, etc. 584,038, Dec. 29; Serial No. 594,870, published Aug. 4, 1953. Class 26.

Terriere, Oscar J., Rapid City, S. Dak. Tile. 584,200, Dec. 29; Serial No. 643,986, published Sept. 22, 1953. Class 12.

Texas Ledge Stone Co., The: *See*—
Graham, Von B.

Timber Engineering Company, Washington, D. C. Metal timber connectors. 584,206, Dec. 29; Serial No. 644,199, published Aug. 18, 1953. Class 12.

Tremmel, August, & Son: *See*—
Tremmel, Louis A.

Tremmel, Louis A., doing business as August Tremmel & Son, Biloxi, Miss. Roofing devices. 584,039, Dec. 29; Serial No. 600,092, published Aug. 18, 1953. Class 12.

Trimedge, Inc., Youngstown, Ohio. Extruded and rolled metal moldings. 584,100–1, Dec. 29; Serial Nos. 630,974–5, published Sept. 15, 1953. Class 12.

Troutman Garment Company, Troutman, N. C. Men's work shirts. 584,162, Dec. 29; Serial No. 640,978, published Sept. 22, 1953. Class 39.

Trubenizing Process Corporation: *See*—
Liebovitz, S., & Sons, Inc.

Ultra Chemical Works, Inc., Paterson, N. J. Sulfonic acid. 584,173, Dec. 29; Serial No. 642,324, published Sept. 29, 1953. Class 6.

Unexcelled Chemical Corporation, New York, N. Y. Insect repellent compositions. 441,254, Nov. 9, 1948. Canceled Nov. 20, 1953. O. G. Dec. 29. Class 6.

Union Metallic Cartridge Company, The, Bridgeport, Conn., and New York, N. Y., to Remington Arms Company, Inc., Bridgeport, Conn. Paper shot-shells. 94,697, renewed Dec. 23, 1953. O. G. Dec. 29. Class 9.

Univis Lens Company, The, Dayton, Ohio. Ophthalmic lenses and eyeglass lenses. 584,088, Dec. 29; Serial No. 628,134, published Nov. 25, 1952. Class 26.

Van der Gaast, H., & Co.: *See*—
Van der Gaast, Harry.

Van der Gaast, Harry, doing business as H. van der Gaast & Co., Miami, Fla. Glass jalousie windows and doors. 584,136, Dec. 29; Serial No. 638,025, published Aug. 18, 1953. Class 12.

Van Dusen, Harrington, Company, doing business under the name King Midas Feed Mills, Minneapolis, Minn. Animal feed. 584,069, Dec. 29; Serial No. 622,469, published Feb. 24, 1953. Class 46.

Virginia Carolina Chemical Corporation, Richmond, Va. Synthetic detergent. 584,062, Dec. 29; Serial No. 618,418, published Oct. 6, 1953. Class 52.

Walker, T. V., & Son, Inc., Burbank, Calif. Sliding glass doors. 584,191, Dec. 29; Serial No. 643,743, published Sept. 22, 1953. Class 12.

Walter, Louis, & Co., Inc., Kansas City, Mo. Women's coats and suits. 584,183, Dec. 29; Serial No. 643,387, published Sept. 1, 1953. Class 39.

Wander, Dr. A., A-G., Berne, Switzerland, to The Wander Company, Chicago, Ill. Food drink. 93,650, renewed Oct. 7, 1953. O. G. Dec. 29. Class 46.

Wander Company, The: *See*—
Wander, Dr. A., A-G.

Waring Products Corporation, New York, N. Y. Electric hand mixers. 584,245, Dec. 29; Serial No. 634,617. Class 21.

Washougal Woolen Mills, doing business as Foundation Worsted Mills, Washougal, Wash. Blankets. 308,642. renewed Dec. 12, 1953. O. G. Dec. 29. Class 42.

Wells, Raymond: *See*—
Brown & Wells, Inc.

West Disinfecting Company, Long Island City, N. Y. Chemical compositions. 584,224, Dec. 29; Serial No. 646,184, published Oct. 6, 1953. Class 6.

West Disinfecting Company, Long Island City, N. Y. Liquid insecticide. 584,225, Dec. 29; Serial No. 646,185, published Oct. 6, 1953. Class 6.

Western Mineral Products Company, Minneapolis, Minn. Paint additive. 584,192, Dec. 29; Serial No. 643,745, published Sept. 15, 1953. Class 16.

Western Star Mill Co., The, Salina, Kans. Wheat flour. 238,618, Feb. 14, 1928. Amended. O. G. Dec. 29. Class 46.

Westlake Horticultural Estab.: *See*—
Scanlon, Edward H.

Wheel Craft Corporation, Azusa, Calif. Aluminum castings. 584,093, Dec. 29; Serial No. 629,536, published Oct. 6, 1953. Class 14.

Wheeling Corrugating Company, Wheeling, W. Va. Metal lath. 584,176, Dec. 29; Serial No. 642,790, published Sept. 1, 1953. Class 12.

Whitehall Pharmacal Company, New York, N. Y. Tooth paste. 584,246, Dec. 29; Serial No. 651,879. Class 51.

Wickes Corporation, The, Saginaw, Mich. Graphite. 584,072, Dec. 29; Serial No. 623,222, published Sept. 8, 1953. Class 1.

Will & Baumer Candle Co., Inc., Syracuse, N. Y. Altar and church lamps. 306,576, renewed Sept. 26, 1953. O. G. Dec. 29. Class 34.

Wilson Brothers, Chicago, Ill. Dress and negligee shirts, pajamas, etc. 304,387, renewed July 4, 1953. O. G. Dec. 29. Class 39.

Wilson Brothers, Chicago, Ill. Men's dress shirts. 304,396, renewed July 4, 1953. O. G. Dec. 29. Class 39.

Windsor-Lloyd Products, Inc., Wilmington, Del., to Windsor-Lloyd Products, Inc., Philadelphia, Pa. Ignition coils, replacement ignition coils, ignition cable kits, etc. 310,121, renewed Feb. 13, 1954. O. G. Dec. 29 Class 21.

Windsor-Lloyd Products, Inc., doing business as Booster Chemical & Engineering Co., Baltimore, Md., to Windsor-Lloyd Products, Inc., Philadelphia, Pa. Motor lubricating oils and lubricating greases. 310,136, renewed Feb. 13, 1954. O. G. Dec. 29. Class 15.

Wisconsin Door Company, Livonia, Mich. Plywood and door panels. 584,180, Dec. 29; Serial No. 643,013, published Aug. 25, 1953. Class 12.

Wolocko, Bronislawa, doing business as Bronislawa, Salem, Mass. Perfumes and deodorants. 584,104, Dec. 29; Serial No. 632,150, published Sept. 22, 1953. Class 51.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Glass fiber matted sheet materials. The Ferro Corporation. 584,184, Dec. 29; Serial No. 643,415, published Sept. 8, 1953.

Graphite. The Wickes Corporation. 584,072, Dec. 29; Serial No. 623,222, published Sept. 8, 1953.

Lawn seed mixture. Lee Patten Seed Company. 584,147–8, Dec. 29; Serials No. 639,579–80, published Sept. 8, 1953.

Leather. Crease and Cook Company. 41,656, re-renewed Dec. 15, 1953. O. G. Dec. 29.

Limestone, Finely granulated calcite. Limestone Products Corporation of America. 584,168, Dec. 29; Serial No. 641,851, published Sept. 8, 1953.

Plants, Gardenia. M. P. Rogers. 584,182, Dec. 29; Serial No. 643,375, published Sept. 8, 1953.

Plants, Strawberry. V. J. Judson. 584,064, Dec. 29; Serial No. 619,202, published Sept. 15, 1953.

Raw clay, Ground amorphous, and amorphous fuller's earth. Earthen Products Company. 309,364, renewed Jan. 9, 1954. O. G. Dec. 29.

Raw silk. Katakura Seishi Boseki Kabushiki Kaisha. 388,510, July 1, 1941. Amended. O. G. Dec. 29.

Seed, Lawn grass. Pedigreed Seed Co. 584,046, Dec. 29; Serial No. 607,349, published Aug. 18, 1953.

Seed mixture, Lawn. Lee Patten Seed Company. 584,146, Dec. 29; Serial No. 639,577, published Sept. 8, 1953.

Seeds, Grass. Druid Hill Park Seed Corporation. 584,131–2, Dec. 29; Serial Nos. 636,212–13, published Sept. 8, 1953.

Textile cloth for use with other raw materials. Madagascar Graphite and Mica Company. 584,144, Dec. 29; Serial No. 639,181, published Sept. 15, 1953.

Thermoplastic material in the form of sheets and stripe. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 640,133, published July 28, 1953. Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.

Trees, Natural. E. H. Scanlon. 584,056, Dec. 29; Serial No. 613,652, published Sept. 15, 1953.

CLASS 2

Cartons, Collapsible cardboard. McIntyre Dairy Company. 584,233, Dec. 29; Serial No. 605,667.

Dust bags and receptacles. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,562, published May 12, 1953. Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38 40, 42, 43, 44, 50, and 52.

CLASS 3

Traveling cases. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,563, published Mar. 3, 1953. Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.

CLASS 4

Brake-renewer compounds. Motor vehicle, fabric dry cleaner compounds, etc. Biltrite Motor Equipment Co. Inc. 306,773, renewed Sept. 26, 1953. O. G. Dec. 29.
Emery cord. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,564, published May 19, 1953. Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.
Water and wax emulsions. Franklin Research Company. 310,716, renewed Mar. 6, 1954. O. G. Dec. 29.
Wax, Self-polishing. National Laboratories, Inc. 584,166, Dec. 29; Serial No. 641,460, published Sept. 15, 1953.
Wax, Self-polishing floor, and paste floor wax. Bennett Glass & Paint Company. 306,793, Sept. 26, 1933. Corrected. O. G. Dec. 29.

CLASS 5

Adhesive. Kentile, Inc. 584,143, Dec. 29; Serial No. 639,175, published Oct. 6, 1953.
Rubber-to-fabric latex dips and rubber, plastic, and resin adhesive dispersions and solutions. The General Tire & Rubber Company. 584,207, Dec. 29; Serial No. 644,231, published Oct. 6, 1953.

CLASS 6

Catalyst. M. Raney. 584,119, Dec. 29; Serial No. 634,023, published Oct. 6, 1953.
Chemical compositions. West Disinfecting Company. 584,224, Dec. 29; Serial No. 646,184, published Oct. 6, 1953.
Chemical product, Liquid. Nyanza Color & Chemical Co., Inc. 310,157, renewed Feb. 13, 1954. O. G. Dec. 29.
Formaldehyde polymers. Heyden Chemical Corporation. 584,139–42, Dec. 29; Serial Nos. 639,044–7, published Sept. 29, 1953.
Fungicides, fumigants, etc. Plant Protection Limited. 584,066, Dec. 29; Serial No. 620,231, published Sept. 29, 1953.
Getters used in the evacuation of vacuum tubes. King Laboratories, Inc. 306,643, renewed Sept. 26, 1953. O. G. Dec. 29.
Insect repellent compositions. Unexcelled Chemical Corporation. 441,254, Nov. 9, 1948. Canceled Nov. 20, 1953. O. G. Dec. 29.
Insecticide, Liquid. West Disinfecting Company. 584,225, Dec. 29; Serial No. 646,185, published Oct. 6, 1953.
Insecticides. Gulf Oil Corporation. 584,223, Dec. 29; Serial No. 646,127, published Oct. 6, 1953.
Insecticides, fungicides. Insecticides Company. 584,205, Dec. 29; Serial No. 644,120, published Oct. 6, 1953.
Insecticides, fungicides, and disinfectants. Rohm & Haas Company. 584,215, Dec. 29; Serial No. 644,870, published Oct. 6, 1953.
Liquid coating for metal and through which the latter may be scribed. Dyestuffs and Chemicals, Inc. 584,065, Dec. 29; Serial No. 620,093, published Sept. 29, 1953.
Non-skid coating to be applied to the under-surface of rugs. H. Chase. 584,239, Dec. 29; Serial No. 628,089.
Plasticizers. Hatco Chemical Company. 584,190, Dec. 29; Serial No. 643,682, published Sept. 29, 1953.
Shock absorber fluid. Houde Engineering Corporation. 305,688–9, renewed Aug. 22, 1953. O. G. Dec. 29.
Sulfonic acid. Ultra Chemical Works, Inc. 584,173, Dec. 29; Serial No. 642,324, published Sept. 29, 1953.
Synthetic resins. Monsanto Chemical Company. 584,043, Dec. 29; Serial No. 605,965, published Oct. 6, 1953.
Thermosetting resins. Capital Plastics, Inc. 584,094, Dec. 29; Serial No. 629,649, published June 9, 1953.
Tick powder and flea powder. Polk Miller Products Corporation. 584,244, Dec. 29; Serial No. 633,214.

CLASS 7

Cord, Awning, binder twine, braided lacing cord, etc. Callaway Mills. 309,126, renewed Jan. 2, 1954. O. G. Dec. 29.

CLASS 8

Cigarette paper. Peter J. Schweitzer, Inc. 310,447, renewed Feb. 27, 1954. O. G. Dec. 29.
Lighters, Cigar and/or cigarette. M. Quercia. 584,096, Dec. 29; Serial No. 630,648, published Aug. 11, 1953.
Pipes, Tobacco. H. Comoy & Co., Limited. 584,138, Dec. 29; Serial No. 639,019, published Sept. 29, 1953.

CLASS 9

Shot-shells, Paper. The Union Metallic Cartridge Company. 94,697, re-renewed Dec. 23, 1953. O. G. Dec. 29.

CLASS 10

Fertilizers. Synthetic Nitrogen Products Corporation. 244,000, July 3, 1928. Amended. O. G. Dec. 29.
Soil conditioners and fertilizers. Arachem Products. 584,221, Dec. 29; Serial No. 646,041, published Oct. 6, 1953.

CLASS 11

Carbon papers. Codo Manufacturing Corporation. 307,647, renewed Oct. 31, 1953. O. G. Dec. 29.
Typewriter ribbons. Codo Manufacturing Corporation. 307,917, renewed Nov. 14, 1953. O. G. Dec. 29.
Typewriter ribbons and carbon papers. Codo Manufacturing Corporation. 307,749, renewed Oct. 31, 1953. O. G. Dec. 29.
Typewriter ribbons and carbon papers. Codo Manufacturing Corporation. 309,151, renewed Jan. 2, 1954. O. G. Dec. 29.

CLASS 12

Acoustical insulation. Gustin-Bacon Manufacturing Company. 584,202, Dec. 29; Serial No. 644,031, published Aug. 18, 1953.
Aggregate and articles manufactured from such aggregate. Shalite Corporation. 584,236, Dec. 29; Serial No. 621,635.
Arbors, pergolas, trellises, etc. Sears, Roebuck and Co. 584,158, Dec. 29; Serial No. 640,587, published Aug. 18, 1953.
Asbestos-cement sheets. Keasbey & Mattison Company. 584,186, Dec. 29; Serial No. 643,595, published Aug. 18, 1953.
Bricks and blocks, Refractory. The Robinson Clay Product Co. 584,172, Dec. 29; Serial No. 642,243, published Aug. 18, 1953.
Building blocks and bricks, Molded masonry. The Burns & Russell Company of Baltimore City. 584,145, Dec. 29; Serial No. 639,552, published Aug. 18, 1953.
Building columns. Lally Column Co. 584,161, Dec. 29; Serial No. 640,862, published Aug. 18, 1953.
Building stone. V. B. Graham. 584,149, Dec. 29; Serial No. 639,698, published Aug. 18, 1953.
Cement additive and extender. BJ Service, Inc. 584,122, Dec. 29; Serial No. 635,215, published Aug. 18, 1953.
Door units, Packaged. Bond-Howell Lumber Company. 584,127, Dec. 29; Serial No. 635,682, published Sept. 15, 1953.
Doors, Sliding glass. T. V. Walker & Son, Inc. 584,191, Dec. 29; Serial No. 643,743, published Sept. 22, 1953.
Extruded and rolled metal moldings. Trimedge, Inc. 584,100–1, Dec. 29; Serial Nos. 630,974–5, published Sept. 15, 1953.
Fibrous materials for use in thermal and acoustical insulation, and adhesives and binders. Sprayo-Flake Company. 584,057, Dec. 29; Serial No. 614,854, published Aug. 18, 1953.
Lagging cloth and lagging tape. Benjamin Foster Company. 584,174, Dec. 29; Serial No. 642,346, published Aug. 18, 1953.
Lumber. Redwood Sales Company. 584,061, Dec. 29; Serial No. 617,554, published Aug. 18, 1953.
Lumber, Finished. D. L. Fair Lumber Company. 584,157, Dec. 29; Serial No. 640,394, published Aug. 18, 1953.
Metal lath. Wheeling Corrugating Company. 584,176, Dec. 29; Serial No. 642,790, published Sept. 1, 1953.
Metal timber connectors. Timber Engineering Company. 584,206, Dec. 29; Serial No. 644,199, published Aug. 18, 1953.
Plywood and door panels. Wisconsin Door Company. 584,180, Dec. 29; Serial No. 643,013, published Aug. 25, 1953.
Plywood and plywood blocks. Lacey Plywood Company, Inc. 584,134, Dec. 29; Serial No. 637,053, published Aug. 18, 1953.
Prefabricated, or pre-cut homes. M. Capp. 584,110, Dec. 29; Serial No. 632,918, published Sept. 15, 1953.
Roonng devices. L. A. Tremmel. 584,039, Dec. 29; Serial No. 600,092, published Aug. 18, 1953.
Shingles. British Columbia Forest Products Limited. 584,163, Dec. 29; Serial No. 641,009, published Aug. 18, 1953.
Shores (for concrete forms); shore clamps, shore-heads; scaffolding clamps; etc. L. S. Holmboe. 584,050, Dec. 29; Serial No. 609,976, published Aug. 18, 1953.
Structural glass panels. Alexander H. Kerr and Company, Incorporated. 584,153, Dec. 29; Serial No. 640,160, published June 23, 1953.
Tile. O. J. Terriere. 584,200, Dec. 29; Serial No. 643,986, published Sept. 22, 1953.
Window sash. A. M. S. Corporation. 584,201, Dec. 29; Serial No. 643,995, published Sept. 22, 1953.
Windows, Aluminum. E. H. Darby. 584,164, Dec. 29; Serial No. 641,177, published Aug. 18, 1953.
Windows and doors, Glass jalousie. H. van der Gaast. 584,136, Dec. 29; Serial No. 638,025, published Aug. 18, 1953.

CLASS 13

Belt hooks and cabinet and furniture hardware. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,566, published May 5, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Portable overhead irrigating systems. E. D. Gage. 306,994, renewed Oct. 10, 1953. O. G. Dec. 29.

CLASS 14

Aluminum castings. Wheel Craft Corporation. 584,093, Dec. 29; Serial No. 629,536, published Oct. 6, 1953.
Copper bearing ferrous base alloy sheets. National Steel Corporation. 584,115, Dec. 29; Serial No. 633,373, published Oct. 6, 1953.
Metal alloys, Brazing, bearing metal alloys, babbitt metals, etc. Jackson-Wheeler Metals Service, Inc. 584,092, Dec. 29; Serial No. 629,438, published Oct. 6, 1953.

Metal plates, sections or bars, and metal tubing stock. Colvilles Limited. 584,117, Dec. 29; Serial No. 633,753, published Oct. 6, 1953.
Printing type. Bauer Alphabets Inc. 584,208, Dec. 29; Serial No. 644,275, published Oct. 6, 1953.
Rod and wire formed of nickel-iron alloys. Wilbur B. Driver Company. 584,128, Dec. 29; Serial No. 635,747, published Oct. 6, 1953.
Steel. Inland Steel Company. 584,097, Dec. 29; Serial No. 630,846, published Oct. 6, 1953.
Venetian blind components. Lando Products, Inc. 584,076–7, Dec. 29; Serial Nos. 624,239–40, published Oct. 6, 1953.

CLASS 15

Candles. Muench-Kreuzer Candle Co., Inc. 584,193, Dec. 29; Serial No. 643,772, published Sept. 15, 1953.
Candles. Muench-Kreuzer Candle Co., Inc. 584,194, Dec. 29; Serial No. 643,778, published Sept. 15, 1953.
Candles. Muench-Kreuzer Candle Co., Inc. 584,195, Dec. 29; Serial No. 643,780, published Sept. 15, 1953.
Fuel oil additives. National Chemical Company. 584,212, Dec. 29; Serial No. 644,434, published Sept. 15, 1953.
Gasoline, illuminating oil, diesel oil, etc. Edeleanu Gesellschaft m. b. H. 304,279, renewed June 27, 1953. O. G. Dec. 29.
Lubricant. Royal Engineering Co. 584,099, Dec. 29; Serial No. 630,961, published Sept. 15, 1953.
Lubricants, High pressure, motor lubricating oils, transmission and differential lubricants. The Pep Boys—Manny, Moe & Jack. 310,199, renewed Feb. 13, 1954. O. G. Dec. 29.
Oil and greases, Lubricating. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,567, published Apr. 28, 1953. (Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Oil, Cutting. Gulf Oil Corporation. 584,103, Dec. 29; Serial No. 631,862, published Sept. 15, 1953.
Oils, Motor lubricating, and lubricating greases. Windsor-Lloyd Products, Inc. 310,136, renewed Feb. 13, 1954. O. G. Dec. 29.
Shock absorber fluid. Houde Engineering Corporation. 306,514–15, renewed Sept. 19, 1953. O. G. Dec. 29.

CLASS 16

Coating preparation, Liquid. Schultz Products Company, Inc. 584,248, Dec. 29; Serial No. 645,341.
Paint. Ceramatex Manufacturing Corporation. 584,091, Dec. 29; Serial No. 629,353, published Sept. 22, 1953.
Paint additive. Western Mineral Products Company. 584,192, Dec. 29; Serial No. 643,745, published Sept. 15, 1953.
Paint, Ready-mixed, varnishes, wood stains, etc. Duron Paint Manufacturing Company. 584,209–10, Dec. 29; Serial Nos. 644,396–7, published Sept. 15, 1953.

CLASS 17

Cigarettes. Philip Morris & Co. Ltd. Incorporated. 584,181, Dec. 29; Serial No. 643,043, published Sept. 8, 1953.
Cigars. H. de Cabanas y Carbajal. 309,520, renewed Jan. 16, 1954. O. G. Dec. 29.

CLASS 18

Antacid for relief of excessive gastric acidity. Nyal Company. 402,129, June 29, 1943. Republished Dec. 29.
Antibiotic derivative. Chas. Pfizer & Co., Inc. 584,178, Dec. 29; Serial No. 642,899, published Sept. 29, 1953.
Antiseptic and medicated deodorant. J. Agosta. 584,198, Dec. 29; Serial No. 643,807, published Oct. 6, 1953.
Antiseptic mouth wash. Nyal Company. 400,124, Feb. 16, 1943. Republished Dec. 29.
Antiseptic preparation. Cavendish Chemical Corporation. 301,487, renewed Mar. 7, 1953. O. G. Dec. 29.
Cold capsules. Hy-Pure Laboratories, Inc. 584,034, Dec. 29; Serial No. 551,455, published Nov. 15, 1949.
Compound for the treatment of coughs. Nyal Company. 251,727, Jan. 15, 1929. Republished Dec. 29.
Cortisone acetate compound for general hormone therapy. Schenley Laboratories, Inc. 584,203, Dec. 29; Serial No. 644,069, published Sept. 22, 1953.
Diagnostic reagent preparation for the determination of blood in fluids. Ames Company, Inc. 584,243, Dec. 29; Serial No. 632,067.
Ear ache drops. Nyal Company. 370,641, Aug. 29, 1939. Republished Dec. 29.
Eye drops. Nyal Company. 374,928, Jan. 30, 1940. Republished Dec. 29.
Fructose. Mead Johnson & Company. 584,177, Dec. 29; Serial No. 642,829, published Sept. 29.
Inhalants. W. J. Fink. 311,174, renewed Mar. 13, 1954. O. G. Dec. 29.
Intestinal astringent. Nyal Company. 393,697, Feb. 24, 1942. Republished Dec. 29.
Liniment. C. L. Sineath. 584,226, Dec. 29; Serial No. 646,495, published Oct. 6, 1953.
Lozenge. Nyal Company. 370,638, Aug. 29, 1939. Republished Dec. 29.
Medicated skin cream. Purepac Corporation. 584,196, Dec. 29; Serial No. 643,790, published Sept. 29, 1953.
Medicinal preparation. M. W. Adams Company. 584,197, Dec. 29; Serial No. 643,805, published Sept. 29, 1953.
Medicinal preparation. Chicago Pharmacal Company. 584,188, Dec. 29; Serial No. 643,645, published Sept. 29, 1953.
Medicinal preparation. Nyal Company. 384,411, Jan. 21, 1941. Republished Dec. 29.
Medicinal preparation. Nyal Company. 385,249–50, Feb. 18, 1941. Republished Dec. 29.
Mineral crystals and evaporated mineral water residue for the treatment of constipation, etc. Famous Mineral Water Co. 306,698, renewed Sept. 26, 1953. O. G. Dec. 29.
Oral antiseptic deodorant preparation. Pharmaco, Inc. 580,010, Sept. 15, 1953. Amended. O. G. Dec. 29.
Pharmaceutical preparations. Mead Johnson & Company. 584,218–19, Dec. 29; Serial Nos. 645,494–5, published Sept. 29, 1953.
Preparation for the relief of pain. Nyal Company. 400,127, Feb. 16, 1943. Republished Dec. 29.
Preparation for the treatment of irritations of the skin. Nyal Company. 400,126, Feb. 16, 1943. Republished Dec. 29.
Preparation used in the treatment of rheumatic fever. Nyal Company. 370,620, Aug. 29, 1939. Republished Dec. 29.
Tonic, General. Nyal Company. 384,895, Feb. 4, 1941. Republished Dec. 29.
Vaginal douche powder. Amfre Drug Co., Inc. 584,204, Dec. 29; Serial No. 644,092, published Sept. 29, 1953.
Vitamin compounds and vitamin preparations. Eastman Kodak Company. 584,189, Dec. 29; Serial No. 643,669, published Sept. 22, 1953.

CLASS 19

Automobiles. H. A. Cohen. 584,035, Dec. 29; Serial No. 574,896, published Oct. 6, 1953.
Automobiles and structural parts thereof, Passenger. Ford Motor Company Limited. 584,125, Dec. 29; Serial No. 635,642, published Oct. 6, 1953.
Automobiles, trucks, trailers, etc. Maine Potato Growers, Inc. 584,051, Dec. 29; Serial No. 610,371, published Oct. 6, 1953.
Automotive brake blocks. Johns-Manville Corporation. 584,085, Dec. 29; Serial No. 627,512, published Oct. 6, 1953.
Car bodies, motor cars, motor cycles, etc. Alfa Romeo Società per Azioni. 584,222, Dec. 29; Serial No. 646,098, published Oct. 6, 1953.
Trailers, House. Roadcraft Corporation. 584,229, Dec. 29; Serial No. 647,448, published Oct. 6, 1953.
Vehicular steering connections. The Columbus Auto Parts Company. 584,120, Dec. 29; Serial No. 634,730, published Oct. 6, 1953.

CLASS 20

Floor and wall coverings in the nature of linoleum and felt base, Flexible. Congoleum-Nairn Inc. 584,095, Dec. 29; Serial No. 630,478, published Sept. 15, 1953.
Linoleum, felt base, and similar flexible floor and wall coverings. Congoleum-Nairn, Inc. 584,112, Dec. 29; Serial No. 633,196, published Sept. 8, 1953.

CLASS 21

Electric circuit components. Photocircuits Corporation. 584,247, Dec. 29; Serial No. 641,689.
Electric hand mixers. Waring Products Corporation. 584,245, Dec. 29; Serial No. 634,617.
Electric motors, electro-mechanical drives, electric transmitters, etc. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 629,259, published Mar. 31, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Electric portable valve seat grinders and parts thereof. The Black & Decker Manufacturing Company. 306,961, Oct. 10, 1933. Republished Dec. 29.
Electrically heated insecticide vaporizers. Air-Rite, Inc. 584,240, Dec. 29; Serial No. 629,589.
Ignition coils, replacement ignition coils, ignition cable kits, etc. Windsor-Lloyd Products, Inc. 310,121, renewed Feb. 13, 1954. O. G. Dec. 29.
Transformers. General Radio Company. 311,091, renewed Mar. 13, 1954. O. G. Dec. 29.

CLASS 22

Dolls. The Sun Rubber Company. 584,227, Dec. 29; Serial No. 646,901, published Oct. 6, 1953.
Dolls. The Sun Rubber Co. 584,228, Dec. 29; Serial No. 646,905, published Oct. 6, 1953.
Fishing lines, fishing rods, and fishing reels. Marshall-Wells Company. 584,232, Dec. 29; Serial No. 649,523, published Oct. 6, 1953.
Game, Table board. J. B. Leighton. 306,424, renewed Sept. 19, 1953. O. G. Dec. 29.
Switch mechanism for switching tracks for model trains, Electric. The Pioneer Company. 584,067, Dec. 29; Serial No. 620,551, published Oct. 6, 1953.
Toy coin banks. V. Moran. 584,054, Dec. 29; Serial No. 612,814, published Oct. 6, 1953.
Toy sewing machines, dolls, dolls' clothes, and toy traveling cases. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,568, published May 5, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

Ventriloquist dummies. Jimmy Nelson Enterprises, Inc. 584,231, Dec. 29; Serial No. 649,321, published Oct. 6, 1953.

CLASS 23

Agricultural implements. Orkil, Incorporated. 533,214, Nov. 7, 1950. New certificate. O. G. Dec. 29.
Harrows, plows, etc. The Cutaway Harrow Company. 25,802, Jan. 1, 1895. New certificate. O. G. Dec. 29.
Hydraulic ram assembly, etc. Orkil, Incorporated. 548,731, Sept. 25, 1951. New certificate. O. G. Dec. 29.
Lawn mowers and parts thereof. Qualcast Limited. 307,175, renewed Oct. 17, 1953. O. G. Dec. 29.
Machine shafts, machine axles, apparatus for grinding knives and scissors, etc. Aktiebolaget B. A. Hjorth & Co. 93,992, re-renewed Oct. 28, 1953. O. G. Dec. 29.
Machines for dividing and separating clay; stationary and portable machines, road construction and paving equipment, etc. Baumat A. G. 584,055, Dec. 29; Serial No. 612,890, published Apr. 21, 1953.
Sewing machines, Family and commercial, darning, embroidery, article fastening, etc. machines, etc. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 629,260, published June 23, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 24

Ironing board sets, nets for laundry and dye house use, tailored ironing board pads, etc. Callaway Mills. 309,335, renewed Jan. 9, 1954. O. G. Dec. 29.
Pads formed of metallic filaments for garment pressing machines. X. S. Smith, Inc. 584,150–1, Dec. 29; Serial Nos. 639,847–8, published Oct. 6, 1953.
Pressing machines; ironing boards, sleeve boards, etc. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,569, published May 5, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 25

Locks and keys. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,570, published Aug. 4, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)

CLASS 26

Ammeters, oil pressure gauges, liquid level gauges, etc. King-Seeley Corporation. 584,037, Dec. 29; Serial No. 588,495, published Aug. 4, 1953.
Camera attachments and accessories. The Kalart Company Inc. 584,049, Dec. 29; Serial No. 609,864, published July 28, 1953.
Electronically operated plotting apparatus for transferring data from IBM cards, etc. Telecomputing Corporation. 584,038, Dec. 29; Serial No. 594,870, published Aug. 4, 1953.
Film splicers, film winders, and carrying cases. The Kalart Company Inc. 584,058, Dec. 29; Serial No. 615,712, published Aug. 4, 1953.
Glasses and parts thereof, Sun. I. Frohlich. 584,063, Dec. 29; Serial No. 618,737, published Aug. 4, 1953.
Lenses, Ophthalmic, and eyeglass lenses. The Univis Lens Company. 584,088, Dec 29; Serial No. 628,134, published Nov. 25, 1952.
Optical frames. Duroloid Optical Company. 584,109, Dec. 29; Serial No. 632,833, published Aug. 4, 1953.
Patterns, Dress. The New Way Pattern Company, Inc. 584,169, Dec. 29; Serial No. 641,950, published Aug. 4, 1953.
Scientific, optical, photographic, and cinematographic apparatus, etc. Les Appareils de Précision Kinoptik S. A. 584,036, Dec. 29; Serial No. 581,964, published Aug. 4, 1953.
Sunglasses. D. J. Capozzi. 584,167, Dec. 29; Serial No. 641,715, published Aug. 4, 1953.
Surveying instruments. Surveyor's Service Company. 584,073, Dec. 29; Serial No. 623,780, published July 28, 1953.
Temperature responsive mechanism for controlling automatic refrigerators, temperature responsive mechanisms for controlling heaters, etc. Ranco Incorporated. 584,070, Dec. 29; Serial No. 622,557, published Aug. 18, 1953.
Testing devices, Thermoelectric, and measuring devices. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,571, published May 5, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Thermostats. Pierce Laboratory, Inc. 584,048, Dec. 29; Serial No. 609,312, published July 28, 1953.

CLASS 27

Watchcases. Illinois Watch Case Co. 39,586, Dec. 30, 1902. Republished Dec. 29.
Watch movements. The Rockford Watch Co. Ltd. 93,205, re-renewed Aug. 26, 1953. O. G. Dec. 29.
Watches and clocks and parts thereof. E. Mathey-Tissot et Co. 346,198, May 18, 1937. New certificate. O. G. Dec. 29.

CLASS 28

Diamonds, diamond rings, wedding rings, etc. J. W. Hamilton. 584,159–60, Dec. 29; Serial Nos. 640,681–2, published June 23, 1953.
Jewelry. Miller Manufacturing Co. 584,234, Dec. 29; Serial No. 607,715.
Jewelry, Scarab. A. Adler. 584,121, Dec. 29; Serial No. 635,079, published Mar. 3, 1953.

CLASS 30

Porcelain vases; chinaware. Ardalt Inc. 584,078–81, Dec. 29; Serial Nos. 624,584–7, published Aug. 18, 1953.

CLASS 32

Cabinets, stools, chairs, etc. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,572, published May 12, 1953. (Consolidated certificate, Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Mattresses. Simmons Company. 309,614, renewed Jan. 23, 1954. O. G. Dec. 29.
Mattresses and bed-springs. Barker Bros. Incorporated. 321,801, Feb. 12, 1935. Canceled Nov. 30, 1953. O. G. Dec. 29.
Seat covers, Made up, stool covers, toilet seat covers, etc. Callaway Mills. 310,270, renewed Feb. 13, 1954. O. G. Dec. 29.

CLASS 34

Heaters, Room, and fans for room heaters. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,573, published May 26, 1953. (Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50 and 52.)
Lamps, Altar and church. Will & Baumer Candle Co., Inc. 306,576, renewed Sept. 26, 1953. O. G. Dec. 29.

CLASS 35

Gaskets and packings. "Flexitallic" Gasket Company. 91,864, re-renewed June 3, 1953. O. G. Dec. 29.
Hose, Flexible. Davis Specialties Incorporated. 584,230, Dec. 29; Serial No. 647,573, published Sept. 29, 1953.
Seal rings. Minnesota Rubber and Gasket Co. 584,213, Dec. 29; Serial No. 644,562, published Sept. 29, 1953.
V-belts, cord belts, composition belts, etc. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,574, published Oct. 7, 1952. (Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50 and 52.)

CLASS 37

Chalk, Marking. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 630,806, published May 5, 1953. (Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50 and 52.)
Lead-pencils and pencil-holders. Eagle Pencil Company. 94,806, re-renewed Jan. 6, 1954. O. G. Dec. 29.
Paper, Waxed. Pollock Paper Corporation. 560,311, June 17, 1952. Canceled Nov. 30, 1953. O. G. Dec. 29.

CLASS 38

Books and booklets. Hydroponic Chemical Company, Inc. 584,220, Dec. 29; Serial No. 645,649, published Sept. 29, 1953.
Books, pamphlets, educational leaflets, etc. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,575, published Apr. 7, 1953. (Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50 and 52.)
Bulletins, Life insurance. N. Sternberg. 584,074, Dec. 29; Serial No. 623,994, published Sept. 29, 1953.
Journal etc., Monthly trade. A. S. Loyless. 426,493, Dec. 24, 1946. Canceled Nov. 19, 1953. O. G. Dec. 29.
Journal, etc., Monthly trade. Loyless Publishing Company, Inc. 501,726, Aug. 17, 1948. Canceled Nov. 19, 1953. O. G. Dec. 29.
Magazines. The Studio Publications, Inc. 309,300, renewed Jan. 9, 1954. O. G. Dec. 29.
Newspaper, Daily. Bell Publishing Company. 307,243, renewed Oct. 17, 1953. O. G. Dec. 29.

CLASS 39

Blouses, jackets, skirts, and dresses, Women's and misses'. Steinfeld Blouse and Sportswear Corp. 584,041, Dec. 29; Serial No. 602,573, published June 12, 1951.
Boots, shoes and slippers. Brevitt Shoes Limited. 584,114, Dec. 29; Serial No. 633,237, published Sept. 29, 1953.
Coats and suits, Misses' and ladies'. Kroywen Coats, Inc. 584,102, Dec. 29; Serial No. 631,669, published Jan. 20, 1953.
Coats and suits, Women's. Louis Walter & Co., Inc. 584,183, Dec. 29; Serial No. 643,387, published Sept. 1, 1953.
Coats, Girls' and misses' and women's. Smart Maid Coat & Suit Corp. 584,216, Dec. 29; Serial No. 645,012, published Sept. 29, 1953.
Coats, sport coats and overcoats, Men's and young men's top. Goodman & Suss Clothes Corporation. 584,211, Dec. 29; Serial No. 644,413, published Sept. 22, 1953.

Hats and caps, Water repellent. Harris Raincoat Company, Incorporated. 584,217, Dec. 29; Serial No. 645,245, published Sept. 29, 1953.
Hosiery. California Underwear Company, Inc. 584,108, Dec. 29; Serial No. 632,465, published Sept. 29, 1953.
Hosiery, Ladies'. Maurice Rentner, Inc. 584,086, Dec. 29; Serial No. 627,898, published Apr. 7, 1953.
Hosiery, Ladies' full fashioned and seamless nylon. The Roxborough Company. 584,187, Dec. 29; Serial No. 643,612, published Sept. 22, 1953.
Hosiery, Men's. Charles Brand and Sons. 584,175, Dec. 29; Serial No. 642,609, published Sept. 22, 1953.
Hosiery, Men's. Holeproof Hosiery Company. 584,199, Dec. 29; Serial No. 643,840, published Sept. 22, 1953.
Hosiery, Women's. Mercantile Stores Company, Inc. 584,047, Dec. 29; Serial No. 608,508, published Sept. 22, 1953.
Hosiery, Women's. Stineway Drug Company. 580,175, Sept. 22, 1953. Corrected. O. G. Dec. 29.
Neckties, Four-in-hand. Brown & Wells, Inc. 306,678, renewed Sept. 26, 1953. O. G. Dec. 29.
Pants, Water repellent baby. Rand Rubber Company, Inc. 584,154, Dec. 29; Serial No. 640,168, published Sept. 1, 1953.
Sandals, Hand-made. Pe Kay Leather Products, Inc. 584,116, Dec. 29; Serial No. 633,554, published Sept. 1, 1953.
Shirts, coats, jackets, etc. Chippewa Falls Woolen Mill Company. 584,071, Dec. 29; Serial No. 622,804, published Aug. 11, 1953.
Shirts, Dress and negligee, and collars. S. Liebovitz & Sons, Inc. 310,927, renewed Mar. 13, 1954. O. G. Dec. 29.
Shirts, Dress and negligee, pajamas, etc. Wilson Brothers. 304,387, renewed July 4, 1953. O. G. Dec. 29.
Shirts, etc., Men's and boys' work. Janesville Clothing Company. 351,091, Oct. 19, 1937. Canceled Nov. 27, 1953. O. G. Dec. 29.
Shirts, Men's dress. Wilson Brothers. 304,396, renewed July 4, 1953. O. G. Dec. 29.
Shirts, Men's work. Troutman Garment Company. 584,162, Dec. 29; Serial No. 640,978, published Sept. 22, 1953.
Shoe soles. American Biltrite Rubber Co., Inc. 584,214, Dec. 29; Serial No. 644,589, published Sept. 29, 1953.
Shoes. The Cambridge Rubber Company. 584,087, Dec. 29; Serial No. 627,926, published Sept. 29, 1953.
Shoes. General Shoe Corporation. 584,123, Dec. 29; Serial No. 635,259, published Sept. 29, 1953.
Shoes. International Shoe Company. 584,060, Dec. 29; Serial No. 616,292, published Sept. 22, 1953.
Shoes and slippers. Burlington County Shoe Corporation. 584,045, Dec. 29; Serial No. 607,155, published Sept. 29, 1953.
Shoes, Children's or juvenile. W. B. Coon Company. 584,170, Dec. 29; Serial No. 642,019, published Sept. 29, 1953.
Shoes, Men's. Bates Shoe Company. 584,133, Dec. 29; Serial No. 636,268, published Sept. 1, 1953.
Shoes, Men's and women's. Joseph Shoes Inc. 584,068, Dec. 29; Serial No. 620,559, published Sept. 29, 1953.
Shoes, Women's. J. G. Menihan. 584,090, Dec. 29; Serial No. 628,951, published Sept. 8, 1953.
Shoes, Women's. The Selby Shoe Company. 584,137, Dec. 29; Serial No. 638,441, published Sept. 22, 1953.
Suits, Men's. H. Freeman & Son, Inc. 584,126, Dec. 29; Serial No. 635,645, published Sept. 29, 1953.
Suits, sports and leisure jackets, slacks, etc., Men's. Caribbean Clothing Corporation. 584,044, Dec. 29; Serial No. 606,267, published Mar. 18, 1952.
T-shirts, vests, cardigans, etc. W. W. Artzt. 584,135, Dec. 29; Serial No. 637,473, published Sept. 29, 1953.
Wearing apparel and accessories, Women's. Societe Anonyme Schiaparelli. 307,089, renewed Oct. 17, 1953. O. G. Dec. 29.

CLASS 40

Needles, Hand sewing; needle threaders; needle cases, etc. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 629,261, published May 5, 1953. (Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50 and 52.)

CLASS 42

Blankets. Washougal Woolen Mills. 308,642, renewed Dec. 12, 1953. O. G. Dec. 29.
Curtains, Lace. Patchogue-Plymouth Mills Corporation. 311,136, renewed Mar. 13, 1954. O. G. Dec. 29.
Piece goods. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 630,622, published May 12, 1953. (Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50 and 52.)

CLASS 43

Thread, Sewing. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 630,623, published May 12, 1953. (Consolidated certificate Classes, 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50 and 52.)
Yarn Carpet, chenille yarn, cop yarn, etc. Callaway Mills. 309,336, renewed Jan. 9, 1954. O. G. Dec. 29.

CLASS 44

Ear drum protectors for therapeutic purposes, and athletic supporters. N. P. Steckler. 584,113, Dec. 29; Serial No. 633,224, published Sept. 15, 1953.
Endoscopes and components thereof. American Cystoscope Makers, Inc. 584,107, Dec. 29; Serial No. 632,346, published Sept. 8, 1953.
Eye shields, Opaque. Madison Products Company. 584,111, Dec. 29; Serial No. 633,112, published Sept. 15, 1953.
Facial masks, Disposable apertured. G. B. Coggins. 584,042, Dec. 29; Serial No. 605,297, published Sept. 15, 1953.
Fracture and surgical appliances. Rajowalt Company. 584,118, Dec. 29; Serial No. 634,019, published Sept. 15, 1953.
Hot water bottles, fountain syringes, and combination fountain syringes, etc. Nyal Company. 375,318, Feb. 13, 1940. Republished Dec. 29.
Lithotrites and rongeurs. American Cystoscope Makers, Inc. 584,106, Dec. 29; Serial No. 632,345 published Sept. 8, 1953.
Nasopharyngoscopes and components thereof. American Cystoscope Makers, Inc. 584,105, Dec. 29; Serial No. 632,343, published Sept. 8, 1953.
Powder containing calcium hydroxide and thymol for use in pulp capping and cavity lining. D. F. Rohlfs. 584,171, Dec. 29; Serial No. 642,168, published Oct. 6, 1953.
Surgical pads, Absorbent. W. J. Aagesen. 574,448, May 12, 1953. Canceled Nov. 20, 1953. O. G. Dec. 29.
Surgical stitching instruments, their parts and attachments. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,576, published May 19, 1953. (Consolidated certificate Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50 and 52.)

CLASS 45

Beverages, Nonalcoholic, maltless. The Tom Collins, Jr., Co. 307,903, renewed Nov. 7, 1953. O. G. Dec. 29.

CLASS 46

Bacon rinds, Fried. Filler Products, Inc. 584,235, Dec. 29; Serial No. 607,985.
Bread. Petersen & Pegau Baking Co. 190,771, Oct. 21, 1924. Amended. O. G. Dec. 29.
Candies. Cynthia Sweets Company. 584,033, Dec. 29; Serial No. 539,286, published Dec. 30, 1952.
Canned berries, canned and bottled fruits, dried fruits, etc. Francis H. Leggett & Company. 584,040, Dec. 29; Serial No. 600,492 published Mar. 25, 1952.
Canned mixed vegetables. The Larsen Company. 584,124, Dec. 29; Serial No. 635,366, published Sept. 29, 1953.
Canned salmon. New England Fish Company. 293,715, May 3, 1932. Republished Dec. 29.
Chocolate, Baking chocolate candy, cooking chocolate, etc. H. Bahlsens Keksfabrik K. G. 584,241, Dec. 29; Serial No. 629,940.
Cocoa, sweetened and unsweetened chocolate. Asbach & Co. Aktiengesellschaft. 304,233, renewed June 27, 1953. O. G. Dec. 29.
Coffee. J. A. Folger & Company. 95,214, re-renewed Feb. 3, 1954. O. G. Dec. 29.
Custard powder, egg powder and blanc-mange powder. Alfred Bird and Sons, Limited. 93,960, re-renewed Oct. 28, 1953. O. G. Dec. 29.
Feed, Animal. Van Dusen Harrington Company. 584,069, Dec. 29; Serial No. 622,469, published Feb. 24, 1953.
Flour, Wheat. Pillsbury Flour Mills Company. 93,904, re-renewed Oct. 21, 1953. O. G. Dec. 29.
Flour, Wheat. Pillsbury Flour Mills Company. 306,600, renewed Sept. 26, 1953. O. G. Dec. 29.
Flour, Wheat. The Western Star Mill Co. 238,618, Feb. 14, 1928. Amended. O. G. Dec. 29.
Food drink. Dr. A. Wander. 93,650, renewed Oct. 7, 1953. O. G. Dec. 29.
Food, Frozen. Sweet Frost Packing Company. 584,238, Dec. 29; Serial No. 627,985.
Fruits, Fresh citrus. Deerfield Groves Company. 584,165, Dec. 29; Serial No. 641,371, published Apr. 7, 1953.
Hams, bacon. Jacob E. Decker & Sons. 306,352, renewed Sept. 19, 1953. O. G. Dec. 29.
Ice cream mix. M & R Dietetic Laboratories, Inc. 439,546, July 6, 1948. Republished Dec. 29.
Milk, Pure Milk Association. 306,985, renewed Oct. 10, 1953. O. G. Dec. 29.
Milk, Modified. M & R Dietetic Laboratories, Inc. 311,888, Apr. 10, 1934. Republished Dec. 29.
Milk preparation, Condensed. M & R Dietetic Laboratories, Inc. 371,247, Sept. 19, 1939. Republished Dec. 29.
Milk preparation, Condensed. M & R Dietetic Laboratories, Inc. 394,296, Mar. 31, 1942. Republished Dec. 29.
Milk product, Condensed. M & R Dietetic Laboratories, Inc. 432,084, Aug. 19, 1947. Republished Dec. 29.
Phosphatic fat-binding agent. Darmenindustrie H. Vaessen. 584,155, Dec. 29; Serial No. 640,261, published Sept. 29, 1953.
Salad dressing. E. Harman. 584,185, Dec. 29; Serial No. 643,547, published Sept. 29, 1953.

Salmon. Friday Harbor Canning Company. 584,242, Dec. 29; Serial No. 632,026.
Soup, Onion. French Kitchen Foods Corporation. 363,341, Dec. 20, 1938. New certificate. O. G. Dec. 29.
Wheat-flour, Self-rising. The Dunlop Milling Company. 94,891, Jan. 13, 1914. Amended. O. G. Dec. 29.

CLASS 47

Wines. Asbach & Co. Aktiengesellschaft. 304,235, renewed June 27, 1953. O. G. Dec. 29.
Wines. G. H. Malter. 310,790, renewed Mar. 6, 1954. O. G. Dec. 29.

CLASS 48

Malt beverage. Berghoff Brewing Corporation. 304,472, renewed July 11, 1953. O. G. Dec. 29.

CLASS 49

Whiskey, gin, rum, etc. P. R. Myers. 377,839, May 14, 1940. Canceled Nov. 20, 1953. O. G. Dec. 29.

CLASS 50

Dress forms and dress form stands. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,577, published Feb. 24, 1953. (Consolidated certificate. Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Floor and table coverings. The Republic Rubber Company. 311,100, renewed Mar. 13, 1954. O. G. Dec. 29.
Rubber composition padding. The Republic Rubber Company. 311,101, renewed Mar. 13, 1954. O. G. Dec. 29.

CLASS 51

Dental cream. Colgate-Palmolive-Peet Company. 310,023, renewed Feb. 6, 1954. O. G. Dec. 29.
Deodorant, Personal. The Mennen Company. 584,053, Dec. 29; Serial No. 612,026, published Aug. 25, 1953.
Deodorant, Personal, and anti-perspiration preparations. D. J. Rolfs. 584,052, Dec. 29; Serial No. 610,991, published Aug. 25, 1953.
Eau de quinine, hair tonic, shampoo, etc. La Salle Products, Inc. 266,332, Jan. 14, 1930. Republished Dec. 29.
Foot powder. Nyal Company. 407,398, June 6, 1944. Republished Dec. 29.
Fountain creams. Elizabeth Arden Sales Corporation. 584,237, Dec. 29; Serial No. 624,257.
Hair bleach, Liquid. Richard Hudnut. 584,129, Dec. 29; Serial No. 635,767, published Aug. 4, 1953.
Hair coloring powder. Contress, Inc. 584,098, Dec. 29; Serial No. 630,923, published Sept. 15, 1953.
Hair dressing. Nyal Company. 400,123, Feb. 16, 1943. Republished Dec. 29.
Hair tonic, after shave lotion, estrogenic hormone cream, etc. Jessop Products, Inc. 584,082, Dec. 29; Serial No. 625,205, published Sept. 15, 1953.
Mouth wash. Nyal Company. 400,121, Feb. 16, 1943. Republished Dec. 29.
Nail polish. Helen Neushaefer, Inc. 584,059, Dec. 29; Serial No. 615,727, published Aug. 25, 1953.
Nail polish, nail polish remover, cuticle cleanser, etc. Beauty Counselors, Inc. 584,130, Dec. 29; Serial No. 636,059, published Sept. 15, 1953.
Nail polishes. J. Lesquendieu. 201,211, July 21, 1925. Canceled Nov. 30, 1953. O. G. Dec. 29. (Formerly Class 6.)
Perfume. Park Avenue Perfumers Associates. 584,075, Dec. 29; Serial No. 624,050, published Sept. 15, 1953.
Perfumes and deodorants. B. Wolocko. 584,104, Dec. 29; Serial No. 632,150, published Sept. 22, 1953.
Tooth paste. Whitehall Pharmacal Company. 584,246, Dec. 29; Serial No. 651,879.

CLASS 52

Chemical and detergent preparation. Neilson Chemical Company. 444,793, Dec. 29; Serial No. 489,918, published July 9, 1946.
Chemical product for removing rust and scale from metal surfaces. Inter-Coastal Paint Corporation. 584,156, Dec. 29; Serial No. 640,277, published Oct. 6, 1953.
Cleaning preparation, Silver. Lewal Industries, Inc. 584,083, Dec. 29; Serial No. 626,799, published Sept. 15, 1953.
Detergent, Sanitizing. The Steri-Wite Corporation. 584,179, Dec. 29; Serial No. 643,002, published Sept. 15, 1953.
Detergent, Synthetic. Virginia-Carolina Chemical Corporation. 584,062, Dec. 29; Serial No. 618,418, published Oct. 6, 1953.
Eau de quinine, hair tonic, shampoo, etc. La Salle Products, Inc. 266,332, Jan. 14, 1930. Republished Dec. 29.
Petroleum derivatives for use in cleaning metallic machine elements. The Singer Manufacturing Company. 584,089, Dec. 29; Serial No. 628,565, published May 19, 1953. (Consolidated certificate. Classes 1, 2, 3, 4, 13, 15, 21, 22, 23, 24, 25, 26, 32, 34, 35, 37, 38, 40, 42, 43, 44, 50, and 52.)
Shampoo, Liquid. Linnea Perfumes, Inc. 584,152, Dec. 29; Serial No. 640,128, published Oct. 6, 1953.
Soap compound. National Milling and Chemical Company. 300,473, Jan. 24, 1933. Republished Dec. 29.
Solvents. E. F. Houghton & Co. 584,084, Dec. 29; Serial No. 627,446, published Sept. 29, 1953.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Biddinger, Guy R.: *See*—
Darrow, Merritt I., Biddinger, and Patterson.
Crane, Robert L.: *See*—
Marshall, Donald E., Harrington, and Crane.
Darrow, Merritt I., Chicago, G. R. Biddinger, Bellwood and W. J. Patterson, La Grange, assignors to Swift & Company, Chicago, Ill. Poultry gizzard skinner. Re. 23,758, Dec. 29.
Food Machinery and Chemical Corporation, assignee: *See*—
Slade, Martin A., Jr., and Gerwe.
Gerwe, Raymond D.: *See*—
Slade, Martin A., Jr., and Gerwe.
Harrington, John A.: *See*—
Marshall, Donald E., Harrington, and Crane.
Klein, Joseph R., Los Angeles, Calif. Louvered window. Re. 23,759, Dec. 29.
Marshall, Donald E., and J. A. Harrington, Minneapolis, and R. L. Crane, Glen Lake, Minn., assignors to Micro Processing Equipment Inc., Des Plaines, Ill. Method and apparatus for cold milling soap and other materials. Re. 23,760, Dec. 29.
Micro Processing Equipment Inc., assignee: *See*—
Marshall, Donald E., Harrington, and Crane.
Patterson, William J.: *See*—
Darrow, Merritt I., Biddinger, and Patterson.
Sarvie, Walter, Alexandria, Minn. Actuating and locking means for the handles of plier type tools. Re. 23,761, Dec. 29.
Slade, Martin A., Jr., and R. D. Gerwe, Lakeland, Fla., assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Methods and compositions for controlling stem end decay of citrus fruits. Re. 23,762, Dec. 29.
Swift & Company, assignee: *See*—
Darrow, Merritt I., Biddinger, and Patterson.

LIST OF PLANT PATENTEES

Duke, John F., Jr.: *See*—
Duke, John F., Sr., J. F. Duke, Jr., and L. P. Duke.
Duke, John F., Sr., J. F. Duke, Jr., and L. P. Duke, Fort Valley, Ga. Peach tree. 1,236, Dec. 29.
Duke, Leman P.: *See*—
Duke, John F., Sr., J. F. Duke, Jr., and L. P. Duke.
Moore, Ralph S., Visalia, Calif. Rose plant. 1,235, Dec. 29.
Spanbauer, Frank, Decatur, Ill. Rose plant. 1,237, Dec. 29.

LIST OF DESIGN PATENTEES

Aasland, Byron T., and M. W. Bloom, Kankakee, and W. L. Zink, Plano, assignors to Sears, Roebuck and Co., Chicago, Ill. Three-wheeled tractor. 171,178, Dec. 29.
American-Olean Tile Company, assignee: *See*—
Fisher, Lester L.
Awnair Corporation of America, assignee: *See*—
Macy, Donald.
Axelrod, Marion, East Gloucester, Mass. Lamp base. 171,179, Dec. 29.
B & M Mills, Inc., assignee: *See*—
MacIntyre, John A.
Bargen, William J., Waukegan, Ill. Table or similar article. 171,180, Dec. 29.
Bargen, William J., Waukegan, Ill. Book box desk or similar article. 171,181, Dec. 29.
Bargen, William J., Waukegan, Ill. Typewriter and multipurpose desk. 171,182, Dec. 29.
Barmore, Ralph L., Wichita, Kans. Portable electric pump. 171,183, Dec. 29.
Blaw-Knox Company, assignee: *See*—
Eckstrom, Albert W.
Bley, William G., Richboro, Pa. Lady's stocking. 171,184, Dec. 29.
Bley, William G., Richboro, Pa. Lady's stocking. 171,185, Dec. 29.
Bley, William G., Richboro, Pa. Lady's stocking. 171,186, Dec. 29.
Bley, William G., Richboro, Pa. Lady's stocking. 171,187, Dec. 29.
Bley, William G., Richboro, Pa. Lady's stocking. 171,188, Dec. 29.
Bley, William G., Richboro, Pa. Lady's stocking. 171,189, Dec. 29.
Bloom, Merle W.: *See*—
Aasland, Byron T., Bloom, and Zink.
Blumeno, Harold M., assignee: *See*—
Tomlinson, David.
Blumenthal, Alfred R., Chicago, Ill. Automobile window sill protector. 171,190, Dec. 29.
Boucher, Marcel, et Cie., assignee: *See*—
Semensohn, Raymonde.
Bower, Frank W., Goshen, Ind. Coin bank. 171,192, Dec. 29.
Bowman, Clifford A., assignor to Gardex, Inc., Michigan City, Ind. Tool display rack. 171,191, Dec. 29.
Bramming, Carl, Nashville, Tenn. Wide mouth vacuum bottle. 171,193, Dec. 29.
Chernow, Michael, New York, N. Y. Link chain for a necklace or similar article. 171,194, Dec. 29.
Chernow, Michael, New York, N. Y. Link chain for a bracelet or similar article. 171,195, Dec. 29.
Chrysler Corporation, assignee: *See*—
Reynolds, Frederick.
Cook Bros. Equipment Co., assignee: *See*—
Prichard, Evan S.
Davis, Ronald G.: *See*—
Graham, Maurice H., Polivka, Hamilton, and Davis.
Dix, Richard K., Fresno, Calif. Tricycle. 171,196, Dec. 29.
Domberger, Karl, Maspeth, and S. Rael, Jackson Heights, N. Y. Letter opener or similar article. 171,197, Dec. 29.
Duro Metal Products Company, assignee: *See*—
Odlum, William H., and Paine.
Eckstrom, Albert W., Buffalo, N. Y., assignor to Blaw-Knox Company, Pittsburgh, Pa. Milk evaporator unit. 171,198, Dec. 29.
Edwards, Myles W., assignor to Wertz Engineering Co., Inc., Reading, Pa. Housing for organic waste treatment apparatus. 171,199, Dec. 29.
Evans, Robert P., Westwood, assignor to Visual Research Incorporated, Boston, Mass. Spectacle type flashlight. 171,200, Dec. 29.
Fisher, Lester L., assignor to American-Olean Tile Company, Lansdale, Pa. Combination cabinet and easel. 171,201, Dec. 29.
Gardex, Inc., assignee: *See*—
Bowman, Clifford A.
Gibson Refrigerator Company, assignee: *See*—
Trometer, August G.
Graham, Maurice H., J. N. Polivka, J. K. Hamilton, and R. G. Davis, Minneapolis, Minn., assignors to Jet-O-Mat, Inc. Coffee maker. 171,202, Dec. 29.
Hamilton, John K.: *See*—
Graham, Maurice H., Polivka, Hamilton, and Davis.
Hawkinson, Earle W., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire. 171,203, Dec. 29.
Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Earle W.
Hess, Alva S., Hopkinsville, Ky. Lamp. 171,204, Dec. 29.

Hettrick Manufacturing Company, The, assignee: *See*—
Jones, James E.
Higier, Julius A., Johnstown, N. Y. Glove. 171,205, Dec. 29.
Hoodwin, Louis S., Bridgman, Mich. Loud-speaker horn. 171,206, Dec. 29.
Hyke Rubber Company, assignee: *See*—
Trump, Elmo H.
Ingwer, Carl H., assignor to The Ridge Tool Company, Elyria, Ohio. Hand wheel for chucking tools. 171,207, Dec. 29.
Jet-O-Mat, Inc., assignee: *See*—
Graham, Maurice H., Polivka, Hamilton, and Davis.
Jones, James E., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Chair. 171,208, Dec. 29.
Jones, James E., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Rocking chair. 171,209, Dec. 29.
Jones, James E., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Chair seat and back assembly. 171,210, Dec. 29.
Katulski, Ferdinand J., East Detroit, Mich. Contour chair. 171,211, Dec. 29.
Kropf, Solomon J., Goshen, Ind. House trailer. 171,212, Dec. 29.
Kudelka, Egon, New York, N. Y. Panty or similar article. 171,213, Dec. 29.
Light Products, Inc., assignee: *See*—
Martin, Algy E., and Lorimor.
Lorimor, Mearl D.: *See*—
Martin, Algy E., and Lorimor.
MacIntyre, John A., Barrington, R. I., assignor to B & M Mills, Inc. Textile fabric or the like for grills of television and radio cabinets. 171,214, Dec. 29.
Macy, Donald, Pompton Lakes, assignor to Awnair Corporation of America, Passaic, N. J. Combined window awning and ventilator. 171,215, Dec. 29.
Martin, Algy E., North Hollywood, and M. D. Lorimor, Van Nuys, assignors to Light Products, Inc., Beverly Hills, Calif. Warning light or similar article. 171,216, Dec. 29.
Maurer, Robert A., East Palestine, Ohio. Upholstered sofa. 171,217, Dec. 29.
McCaffrey, John, Oakland, Calif. Combination cash tray and carrier. 171,218, Dec. 29.
Mills, Hiram L., Prairie Village, Kans. Slide filing tray. 171,219, Dec. 29.
Nystrom, Walter A., Arlington Heights, assignor to Skil Corporation, Chicago, Ill. Portable electric tool unit or the like. 171,220, Dec. 29.
Nystrom, Walter A., Arlington Heights, assignor to Skil Corporation, Chicago, Ill. Portable electric tool unit or the like. 171,221, Dec. 29.
Odlum, William H., Wilmette, and K. A. Paine, Jr., Park Ridge, assignors to Duro Metal Products Company, Chicago, Ill. Tool support. 171,222, Dec. 29.
Old Ben Publishing Company, Inc., assignee: *See*—
Ray, Richard M.
Paine, Karl A., Jr.: *See*—
Odlum, William H., and Paine.
Peters, Lewis E., Beverly Shores, assignor to Raymond M. Price & Associates, Inc., Chesterton, Ind. Advertising sign. 171,223, Dec. 29.
Pfaff, Henry C., Jr., Summit, N. J. Electric wire suspension rack. 171,224, Dec. 29.
Polivka, John N.: *See*—
Graham, Maurice H., Polivka, Hamilton, and Davis.
Price, Raymond M., & Associates, Inc., assignee: *See*—
Peters, Lewis E.
Prichard, Evan S., La Canada, assignor to Cook Bros. Equipment Co., Los Angeles, Calif. Motor truck. 171,225, Dec. 29.
Rabinowitz, Isidor, Philadelphia, Pa. Stocking. 171,226, Dec. 29.
Rael, Sol: *See*—
Domberger, Karl, and Rael.
Ray, Richard M., Oak Park, assignor to Old Ben Publishing Company, Inc., Chicago, Ill. Mask for disguise or the like. 171,227, Dec. 29.
Ray, Richard M., Oak Park, assignor to Old Ben Publishing Company, Inc., Chicago, Ill. Mask for disguise or the like. 171,228, Dec. 29.
Ray, Richard M., Oak Park, assignor to Old Ben Publishing Company, Inc., Chicago, Ill. Mask for disguise or the like. 171,229, Dec. 29.
Ray, Richard M., Oak Park, assignor to Old Ben Publishing Company, Inc., Chicago, Ill. Mask for disguise or the like. 171,230, Dec. 29.
Reskin, Mitchell L., assignee: *See*—
Tomlinson, David.
Reynolds, Frederick, Bloomfield Hills, assignor to Chrysler Corporation, Highland Park, Mich. Automobile stone shield. 171,231, Dec. 29.
Ridge Tool Company, The, assignee: *See*—
Ingwer, Carl H.
Rosen, Carl G. A., Peoria County, Ill. Neon tube advertising sign. 171,232, Dec. 29.
Ross Products, assignee: *See*—
Sugita, Makoto.
Sears, Roebuck and Co., assignee: *See*—
Aasland, Byron T., Bloom, and Zink.
Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Necklace or similar article. 171,233, Dec. 29.
Skil Corporation, assignee: *See*—
Nystrom, Walter A.
Sugita, Makoto, Itchikawa City, Japan, assignor to Ross Products, New York, N. Y. Pop-up figure toy. 171,234, Dec. 29.
Talt, Marie, Bloomingdale, N. J. Jacket. 171,235, Dec. 29.
Talt, Marie, Bloomingdale, N. J. Dress. 171,236, Dec. 29.
Tomlinson, David, Los Angeles, assignor to H. M. Blumeno, Santa Monica, and M. L. Reskin, Culver City, Calif. Ash tray. 171,237, Dec. 29.
Trometer, August G., Sturgis, assignor to Gibson Refrigerator Company, Greenville, Mich. Insert grille for an air conditioner panel. 171,238, Dec. 29.
Trump, Elmo H., Cuyahoga Falls, assignor, by mesne assignments, to Hyke Rubber Company, Willoughby, Ohio. Fly swatter blade. 171,239, Dec. 29.
Visual Research Incorporated, assignee: *See*—
Evans, Robert P.
Wertz Engineering Co., Inc., assignee: *See*—
Edwards, Myles W.
Wiegel, John M., Oakland, Calif. Folding chair. 171,240, Dec. 29.
Zink, William L.: *See*—
Aasland, Byron T., Bloom, and Zink.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, John W.: *See*—
Misener, Richard E., Abbott, Clarke, and Woodruff.
Abbott Laboratories, assignee: *See*—
Ryan, George R.
Abendroth, Guss F., Houston, Tex., assignor by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Small gun perforator for oil wells. 2,664,157, Dec. 29.
Abresch, Carel F., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,664,050, Dec. 29.
Ace Carton Corporation, assignee: *See*—
Sanford, Roy S.
Aetna-Standard Engineering Company, The, assignee: *See*—
Hale, Andrew, and Kullgren.
Aghnides, Elie P., New York, N. Y. Fluid mixing device. 2,664,278, Dec. 29.
Agriculture, United Sttaes of America as represented by the Secretary of, assignee: *See*—
Owens, Harry S., Stark, and Goodban.
Aickin, Robert G., London, and A. R. Munden, assignors to British Nylon Spinners Limited, Pontypool, England, and Shell Development Company, Emeryville, Calif. Textile treating composition and method. 2,664,409, Dec. 29.
Aktiebolaget Jonkopings Motorfabrik, assignee: *See*—
Östergren, Gustaf.
Aktiebolaget Separator, assignee: *See*—
Magni, Karl G.
Albrecht, Karl, Maplewood, N. J., assignor to Forstner Chain Corporation, Bracelet end connection. 2,663,924, Dec. 29.
Alford, Wilson M., Windsor, assignor to United Aircraft Corporation, East Hartford, Conn. Lubricating mechanism. 2,664,323, Dec. 29.
All Star Products, Inc., assignee: *See*—
Reiches, Sol L., and Ingle.
Allen, Matthew E., Sr., Asheville, N. C. Pattern lathe. 2,664,122, Dec. 29.
Allen, Miller, assignee: *See*—
Fuerst, Harry W.
Allen, Thomas O., Bellaire, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Small gun perforator for wells. 2,664,156, Dec. 29.
Allgeyer, Guy H., Toledo, Ohio, assignor by mesne assignments, to Tropic-Aire, Inc., Chicago, Ill. Broiler griddle mounting means. 2,664,490, Dec. 29.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Fergason, Rector C.
Aloe, A. S., Company, assignee: *See*—
Weichselbaum, Theodore E.
Alsing, Carl F., Evansville, Ind., assignor to Seeger Refrigerator Company, St. Paul, Minn. Household refrigerator. 2,663,999, Dec. 29.
American Can Company, assignee: *See*—
Erb, George C.
American Cyanamid Company, assignee: *See*—
Fletcher, John H.
Riley, Frank R.
American Optical Company, assignee: *See*—
Herman, William F.
Kavanagh, Arthur J.
Meyer, Edgar J., and Read.
American Telephone and Telegraph Company, assignee: *See*—
Hanley, Frank H.
American Viscose Corporation, assignee: *See*—
Conti, John D.
Haley, Hugh D.
Amman, Giuseppe, assignor to Fratelli Borletti Societa per Azioni, Milan, Italy. Zig-zag stitch adjusting means. 2,664,058, Dec. 29.
Andersen, Gordon W., and J. M. Diehl, Madison, Wis., assignors to Bjorksten Research Laboratories, Inc. Improved siliceous insulating material. 2,664,405, Dec. 29.
Anderson, Austin E., Jamestown, N. Y. Animal operated drinking bowl. 2,664,069, Dec. 29.
Anderson, Austin E., Jamestown, N. Y. Valved coupling for milking system. 2,664,104, Dec. 29.
Anderson, Carl A.: *See*—
Williams, Warren J., and Anderson.
Anderson, Carl A., assignor to W. H. Miner, Inc., Chicago, Ill. Mine car draft rigging. 2,664,213, Dec. 29.
Anderson, Oscar M., assignor to Landers, Frary and Clark, New Britain, Conn. Coupling for drink mixers. 2,664,002, Dec. 29.
Anderson, Volney S., Los Angeles, Calif. Means for stripping rubber articles from a core. 2,663,902, Dec. 29.
Anthony, Benjamin F., Cleveland Heights, assignor to The Ferro Engineering Company, Cleveland, Ohio. Hot top cover. 2,663,920, Dec. 29.
Appel, Walter D., Orchard Lake, assignor to Ford Motor Company, Dearborn, Mich. Vehicle body construction. 2,664,308, Dec. 29.
Appleby, Elmer L., Calgary, Alberta, Canada. Friction reducing apparatus for governor spindles. 2,664,285, Dec. 29.
Arentzen, Einar M., Mount Lebanon, assignor to Lee-Norse Company, Charleroi, Pa. Mine service vehicle. 2,664,217, Dec. 29.
Armstrong, Cork Company, assignee: *See*—
Hornberger, Clarence L., and Schulz.
Armstrong, Marshall C., Hebron, Ohio, assignor to Owens-Corning Fiberglas Corporation. Fissured tile composed of glass fibers, gypsum cement, and amine-aldehyde resin, and making same. 2,664,406, Dec. 29.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Dietrich, Albert.
Miller, Cornell M., and Woodbury.
Snell, Chester A., Fain, and De Rosa.
Wheeler, Harry L., Jr.
Arnold, George B.: *See*—
Pevere, Ernest F., Arnold, and Hess.
Arutunoff, Armais, Bartlesville, Okla. Sealing device for tubular shafting. 2,664,271, Dec. 29.
Arutunoff, Armais, Bartlesville, Okla. Swivel electrical connection for deep well drills. 2,664,454, Dec. 15.
Arvidson, George O., Rockford, Ill. Work feed device for woodworking tools. 2,664,123, Dec. 29.
Ascher, Diane, assignee: *See*—
Cerracchio, Enrico.
Atomic Basic Chemicals Corporation, assignee: *See*—
Vierling, Donald E.
Atterling, Erik A.: *See*—
Ericsson, Eric A., Wiberg, and Atterling.
Audio Devices, Inc., assignee: *See*—
Speed, William C., and Dwyer.
Ausland, Le Roy J., Seattle, Wash., assignor to Pioneer Sand and Gravel Company. Reglet. 2,664,057, Dec. 29.
Auto Transmissions Limited, assignee: *See*—
De Normanville, Edgar J.
Avery, Frank E., Erie, Pa. Cushioning member for artificial dentures. 2,663,933, Dec. 29.
B-I-F Industries, Inc., assignee: *See*—
Frazel, Wilbur H.
Babcock, Roger S., Plainfield, and E. M. Holub, Elizabeth, N. J., assignors to Union Carbide and Carbon Corporation. External powder feed scarfing process and apparatus. 2,664,368, Dec. 29.
Babcock & Wilcox Company, The, assignee: *See*—
Iager, Raymond F.
Backus, Harry A., Cincinnati, Ohio. Sofa bed back rest. 2,663,878, Dec. 29.
Badische Anilin- & Soda-Fabrik Aktiengesellschaft, assignee: *See*—
Sachsse, Hans, Kosbahn, and Lehrer.
Bagley & Sewall Company, The, assignee: *See*—
Whalen, John P.
Bain, James, Jr., Waldoboro, Maine, assignor to General Electric Company. Nonintermittent lamp base feeding mechanism. 2,664,186, Dec. 29.
Baker, Warwick R., and R. M. Rosensteel, Wilmington, N. C., assignors to Westinghouse Air Brake Company. Control apparatus for electric locks for railway track switches. 2,664,500, Dec. 29.
Baldwin, Lee E.: *See*—
Crandall, Ronald E., Kleven, and Baldwin.
Balsiger, Harold E.: *See*—
Price, Ralph E., and Balsiger.
Barber-Colman Company, assignor: *See*—
Nakasone, Robert T.
Barker, Lyle M., Clifton, and O. E. Young, Morenci, Ariz., assignors to Phelps Dodge Corporation, New York, N. Y. Flotation recovery of molybdenite. 2,664,199, Dec. 29.
Barrett, Harry B., St. Louis, Mo. Brake drum lathe. 2,663,975, Dec. 29.
Bartleson, John D., assignor to The Standard Oil Company, Cleveland, Ohio. Lubricant and making same. 2,664,202, Dec. 29.

Bascle, Joseph A., New Orleans, La. Pressure carburetor and fuel-air ratio regulator. 2,664,279, Dec. 29.

Batlin, L., & Son, Inc., assignee: *See*—
Gessmann, Edmund G.

Battelle Development Corporation, The, assignee: *See*—
Craighead, Charles M.

Baumgartner, John G., Oswego, Ill. Brush assembling machine. 2,664,315, Dec. 29.

Beachler, Edward D.: *See*—
Hornbostel, Lloyd, and Beachler.

Beal, Louis E., Detroit, Mich. Magazine display fixture. 2,664,206, Dec. 29.

Beard, George E., San Angelo, Tex. Rotary earth tilling device. 2,664,040, Dec. 29.

Bechler, André, Moutier, Switzerland. Automatic pinion cutting machine. 2,664,032, Dec. 29.

Beck, Thomas M.: *See*—
Woodstock, Willard H., and Beck.

Bedford, Alda V., and G. C. Sziklai, Princeton, N. J., assignors to Radio Corporation of America. Multiplexed signal transmission. 2,664,462, Dec. 29.

Beekley, Fred M., Middletown, Ohio. Electric heater for hog fountains. 2,664,494, Dec. 29.

Behnisch, Robert: *See*—
Schmidt, Hans, Behnisch, and Mietzsch.

Bell, Noel G., London, England. Crane. 2,664,212, Dec. 29.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bennett, William R.
Berger, Uriah S.
Spencer, Harry H.

Bellis, Max W.: *See*—
Smith, Russell M., and Bellis.

Beloit Iron Works, assignee: *See*—
Hornbostel, Lloyd, and Beachler.

Benco, George F., Philadelphia, Pa. Sectional comb. 2,664,092, Dec. 29.

Bendix Aviation Corporation, assignee: *See*—
Dickey, John W.
Konet, Henry and Selfried.
Livers, Carlos B.

Bendix-Westinghouse Automotive Air Brake Company, assignee: *See*—
Fitch, Ellery R.

Benedict, Bruce C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Propane fractionation of reduced crude oil. 2,664,384, Dec. 29.

Bennett, William R., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode-ray decoder for pulse code modulation. 2,664,504, Dec. 29.

Bentsen, William J., assignor to Solar Aircraft Company, San Diego, Calif. Die stamping and drawing. 2,664,062, Dec. 29.

Berger, Uriah S., Rockaway, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency modulation detector. 2,664,505, Dec. 29.

Bergstrom, Albert L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Floating type roller bearing. 2,664,325, Dec. 29.

Berlant Associates, assignee: *See*—
Berlant, Emmanuel.

Berlant, Emmanuel, Culver City, assignor to Berlant Associates, Los Angeles, Calif. Drive for magnetic tape. 2,664,251, Dec. 29.

Bernstein, Jack: *See*—
Lott, William A., Bernstein, and Heuser.

Beszedics, Geza E., Vienna, Austria, assignor to International Standard Electric Corporation, New York, N. Y. Automatic regulator of high sensitivity for regulating alternating current voltages. 2,664,540, Dec. 29.

Betancourt Cano, Saúl, and L. L. Corchero, Havana, Cuba. Automatic shutoff valve for pressure fluid systems. 2,664,101, Dec. 29.

Beveridge, Harold N., Arlington, assignor to Raytheon Manufacturing Company, Newton, Mass. Delay line device. 2,664,547, Dec. 29.

Biddinger, Guy R., Bellwood, and C. H. Koonze, assignors to Swift & Company, Chicago, Ill. Device for cleaning poultry gizzards or the like. 2,663,899, Dec. 29.

Bieber, Clarence G., and W. F. Sumpter, Huntington, W. Va., assignors to The International Nickel Company, Inc., New York, N. Y. Valves for internal combustion engines. 2,664,354, Dec. 29.

Biener, Herman, Brooklyn, N. Y. Rake. 2,663,987, Dec. 29.

Bingham-Herbrand Corporation, The, assignee: *See*—
Feemster, David R., and Hinsey.

Binghamton Metal Forms, Inc., assignee: *See*—
Yates, Richard C.

Birum, Herbert L., Jr.: *See*—
Hammitt, Andrew B., and Birum.

Bissman, Carl A., deceased, Springfield, Mo.; E. L. Bissman, executrix. Full floating cushioned drawer for case goods. 2,664,334, Dec. 29.

Bissman, Elizabeth L., executrix: *See*—
Bissman, Carl A.

Björksten Research Laboratories, Inc., assignee: *See*—
Andersen, Gordon W., and Diehl.

Blackburn, Newell F., Fort Belvoir, Va., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Nickel plating. 2,664,392, Dec. 29.

Blaing-Leisk, Edwin G.: *See*—
Johnson, Scott R., and Blaing-Leisk.

Blatz, Leo J., and R. C. Brandon, Elizabeth, N. J., assignors to Standard Oil Development Company, Regeneration of selective hydrogenation catalyst. 2,664,404, Dec. 29.

Blohm, Clyde L.: *See*—
Kohl, Arthur L., and Blohm.

Boeing Airplane Company, assignee: *See*—
Lawler, John A.

Bohman, Robert J., Englewood, N. J. Means for preventing the separation of pairs of socks and the like during laundering. 2,663,877, Dec. 29.

Boice, Elvin G., assignor to Reed Roller Bit Company, Houston, Tex. Coupling. 2,664,272, Dec. 29.

Boice, Elvin G., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 2,664,322, Dec. 29.

Bond, Donald C., Crystal Lake, assignor to The Pure Oil Company, Chicago, Ill. Increasing productivity of siliceous geological formations. 2,644,165, Dec. 29.

Bond, Donald C., Crystal Lake, assignor to The Pure Oil Company, Chicago, Ill. Acidizing wells. 2,664,398, Dec. 29.

Bonilla, Charles F., New York, N. Y., assignor to Phillips Petroleum Company. High pressure and temperature reaction chamber. 2,664,348, Dec. 29.

Boonshaft, Julius C., Pensauken, N. J., assignor to Precision Thermometer and Instrument Company. Liquid density measuring equipment. 2,664,011, Dec. 29.

Booth, James H., Venice, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Wheel chamber and caster adjusting mechanism. 2,664,297, Dec. 29.

Boston Machine Works Company, assignee: *See*—
Osgood, Walter P.

Botnick, Irlin, assignor to Snow-Master, Inc., Cleveland, Ohio. Antiskid cross chain. 2,664,134, Dec. 29.

Bottenhorn, Hermann A., Flushing, assignor to Hydropress, Incorporated, New York, N. Y. Material handling apparatus. 2,664,215, Dec. 29.

Boughton, Earl, Canton, Ohio. Hollow metal door construction. 2,664,181, Dec. 29.

Brace, Porter H., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for the magnetic levitation and heating of conductive materials. 2,664,496, Dec. 29.

Bradley, Caton, Middletown, assignor to The Sessions Clock Company, Forestville, Conn. Timing device. 2,664,155, Dec. 29.

Bradshaw, John A., Greenville, S. C., assignor to J. P. Stevens & Co., Inc. Auxiliary beam letoff mechanism for looms. 2,664,114, Dec. 29.

Brady, Samuel G., Royal Oak, assignor to The Gear Grinding Machine Company, Detroit, Mich. Trimming mechanism for grinder wheels. 2,664,080, Dec. 29.

Brandon, Richard C.: *See*—
Blatz, Leo J., and Brandon.

Braun-Hobar Corporation, assignee: *See*—
Hoch, John.

Braunwalder, John, Glendale, and E. Meyer, Los Angeles, Calif., said Braunwalder assignor to said Meyer. Food chopper. 2,664,128, Dec. 29.

Brisken, Walter R., Dayton, Ohio, and F. J. Neugebauer, Schenectady, N. Y. Air cycle water cooler. 2,664,001, Dec. 29.

Bristol Tool Machine Company, Inc., The, assignee: *See*—
De Note, Frank J.

British Celanese Limited, assignee: *See*—
Downing, John, and Drewitt.
Ewing, Henry.

British Nylon Spinners Limited, assignee: *See*—
Aickin, Robert G., and Munden.

Brock, Irvin A., assignee: *See*—
Hill, Glenn E.

Brockett, Halford E.: *See*—
Maier, Curtis E., Brockett, and Larson.

Brodrib, William A., Hartford, Conn. Ambulatory animal toy. 2,663,970, Dec. 29.

Brookhuysen, William C., Brooklyn, N. Y. Thermostat. 2,664,483, Dec. 29.

Brown, Arthur, assignee: *See*—
Spearman, Carl L.

Brown, Bernard A., and L. A. Erickson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Machine for operating on briquettes. 2,664,018, Dec. 29.

Brown-Brockmeyer Company, The, assignee: *See*—
Brown, Steffen S.

Brown, Everett C., Louisville, Ky., and T. Finan, Providence, R. I., assignors to Cheatham Electric Switching Device Company, Incorporated, Louisville, Ky. Automatic electric frog. 2,664,472, Dec. 29.

Brown, Steffen S., assignor to The Brown-Brockmeyer Company, Dayton, Ohio. Selector switch. 2,664,473, Dec. 29.

Brusca, Joseph L.: *See*—
Palmgren, Per G., and Brusca.

Bunblasky, Adolph, New Canaan, assignor to Sorensen & Company, Inc., Stamford, Conn. Thyratron inverter circuit. 2,664,537, Dec. 29.

Burdin, Nelson V., Coventry, assignor to Scotts Engineering (Newport) Limited, Newport, England. Bottle capping machine with means for controlling the force on capping plungers. 2,664,013, Dec. 29.

Burger, Martin, Morris, Ill., assignor to General Package Corporation. Egg carton. 2,664,233, Dec. 29.

Burger, Martin, Morris, Ill., assignor to General Package Corporation. Egg carton. 2,664,234, Dec. 29.

Burger, W. D., assignee: *See*—
Martin, William F.

Burton, William P., Orange, and E. Solomon, Nutley, assignors to The M. W. Kellogg Company, Jersey City, N. J. Separation of organic compounds. 2,664,435, Dec. 29.

Buss Machine Works, assignee: *See*—
Veersma, Walter.

Bustamante, Cesar, Elmhurst, N. Y. Rack for drinking glasses. 2,664,207, Dec. 29.

Butler, Edmund C., assignor of one-half to Universal Wood Heel Co., St. Louis, Mo. Gauge and ejector for heel shaping machines. 2,664,125, Dec. 29.

Butterfield, Charles E., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Air filter construction. 2,664,172, Dec. 29.

Byrne, Mildred S., Minneapolis, Minn. Safety guard for high chairs. 2,664,150, Dec. 29.

C & H Development Company, assignee: *See*—
Hinkley, Paul Y.

Cahill, Fredrick D., Randolph, Ariz. Earth moving machine. 2,663,953, Dec. 29.

Caldarera, Joseph P.: *See*—
Reinish, Martin D., and Caldarera.

California Research Corporation, assignee: *See*—
Toland, William G., Jr.

Campbell, Gertrude D., assignee: *See*—
Sierer, Payson, and Waterbury.

Canadian International Paper Company, assignee: *See*—
Charles, Frank R., and Dixon.

Canham, George E., West Orange, assignor to Ralph C. Coxhead Corporation, Newark, N. J. Apparatus for type composition. 2,664,038, Dec. 29.

Caplis, George W., Clifton, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Testing and packing fixture. 2,664,544, Dec. 29.

Carpenter, Lester M., Spearfish, S. Dak. Radiator bench. 2,663,929, Dec. 29.

Carpenter, Robert N., Roslyn, N. Y. Dental floss holder. 2,664,093, Dec. 29.

Carroll, James W.: *See*—
Plump, Ralph E., and Carroll.

Carter, Harry W., Flushing, N. Y. Tankless heater and by-passing valve construction therefor. 2,664,275, Dec. 29.

Caswell, Arthur S., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. High-voltage circuit breaker. 2,664,485, Dec. 29.

Celluseude Products, Inc., assignee: *See*—
Sutton, John C.

Cerf, Robert C., Jr., North Hollywood, assignor to Hollymade Hardware Manufacturing Company, Los Angeles, Calif. Latch retractor and housing. 2,664,306, Dec. 29.

Cerracchio, Enrico, Brooklyn, N. Y., assignor of one-half to V. J. Scordiey, J. Scordamaglia, also known as J. Scordley and D. Ascher, New York, N. Y. Illuminated illusion device. 2,663,960, Dec. 29.

Champlin, Charles L., R. C. Ellsworth, and R. J. Hickin, assignors to The Ohio Boxboard Company, Rittman, Ohio. Carrier carton. 2,664,235, Dec. 29.

Charles, Frank R., and J. A. Dixon, Hawkesbury, Ontario, assignors to Canadian International Paper Company, Montreal, Quebec, Canada. Manufacture of cellulose. 2,664,360, Dec. 29.

Charlton, Francis R., and D. A. Dowden, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Aldal condensation. 2,664,446, Dec. 29.

Cheatham Electric Switching Device Company, Incorporated, assignee: *See*—
Brown, Everett C., and Finan.

Chemstrand Corporation, The, assignee: *See*—
Emerson, Paul D.
Ham, George E., and Craig.

Chermendy, Carl V., Dearborn, Mich. Circuit breaker. 2,664,474, Dec. 29.

Chokae, James A., Richmond, Calif. Dispenser for toothpaste and like materials. 2,664,225, Dec. 29.

Churchill, Wilmer H., Wellesley, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Lamp socket for snap fastener engagement with an apertured support. 2,664,549, Dec. 29.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Hoffman, Karl, and Tagmann.
Miescher, Karl, and Schmidlin.

Cissell, W. M., Mfg. Company, Incorporated, assignee: *See*—
Cissell, William M.

Cissell, William M., assignor to W. M. Cissell Mfg. Company, Incorporated, Louisville, Ky. Spray nozzle. 2,664,314, Dec. 29.

Cito, Camillo, Uccle, Belgium, assignor to Industrial Research Laboratory Inc., Philadelphia, Pa. Centrifugal casting of metal parts. 2,663,921, Dec. 29.

Clark Controller Company, The, assignee: *See*—
Few, William, and Sauter.

Clark, Kenneth R., Milwaukee, Wis. Leaf pulverizer for rotary type lawn mowers. 2,663,984, Dec. 29.

Clarke, Stanley E.: *See*—
Misener, Richard E., Abbott, Clarke, and Woodruff.

Clayson, Kenneth D., Butztown, Pa. Self-releasing nut starter. 2,664,021, Dec. 29.

Cleever, John W.: *See*—
Glynn, Thomas, and Cleever.

Cleveland Research Corporation, The, assignee: *See*—
Swenson, Paul F., and Pravda.

Cline, Warren K.: *See*—
Ter Horst, William P., and Cline.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Fluid-operated pump with pneumatic shock absorber. 2,664,049, Dec. 29.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Hydraulic pumping system and by-pass valve therefor. 2,664,102, Dec. 29.

Colcrete Limited, assignee: *See*—
Davies, Leonard T.

Colgate-Palmolive-Peet Company, assignee: *See*—
Fox, Arthur L., and Mehaffey.
Reinish, Martin D., and Caldarera.

Collins, Avery B., Kimberly, Idaho, assignor to The New Holland Machine Division of the Sperry Corporation, New Holland, Pa. Shear coupling controlled electric switch. 2,664,476, Dec. 29.

Colpitts, Harry C., assignor to Northern Electric Company, Limited, Montreal, Quebec, Canada. Thermistor and heat-treating it. 2,664,486, Dec. 29.

Conklin, George W.: *See*—
Morris, Rupert C., and Conklin.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Crandall, Ronald E., Kleven, and Baldwin.

Conti, John D., Elkins Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Apparatus for making linked products. 2,663,982, Dec. 29.

Continental Can Company, Inc., assignee: *See*—
Johnson, Scott R., and Blaing-Leisk.
Magnus, Carl E.
Maier, Curtis E., Brockett, and Larson.

Conveyor Company, Inc., The, assignee: *See*—
Saxe, Walter E.

Cooke-Yarborough, Edmund H.: *See*—
Thomas, David G. A., and Cooke-Yarborough.

Coons, Willard B., Santa Clara, Calif. Fruit feeding, impaling, peeling, trimming, celling, coring, and splitting apparatus. 2,664,129, Dec. 29.

Cooper, Robert S., Park Forest, Ill., assignor to Diamond Alkali Company, Cleveland, Ohio. Flame-resistant compositions comprising a transparent resin, chlorinated paraffin wax, and triphenyl stibine. 2,664,411, Dec. 29.

Corchero, Luis L.: *See*—
Betancourt Cano, Saúl, and Corchero.

Cord, Howard O., Chicago, Ill., and B. G. Merten, Munster, and F. E. Klapheke, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Floating roof construction for tanks. 2,664,220, Dec. 29.

Cornell-Dubilier Electric Corporation, assignee: *See*—
Williamson, Clifford N.

Cornell, Paul W., Mount Lebanon, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Fluidized fixed bed process. 2,664,336, Dec. 29.

Cornell, Paul W., Mount Lebanon, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Fluidized fixed bed process. 2,664,337, Dec. 29.

Cornell, Paul W., Mount Lebanon, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Line and valve system for fluidized particle handling. 2,664,338, Dec. 29.

Cornell, Paul W., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Catalytic process. 2,664,339, Dec. 29.

Cortebert Watch Co., assignee: *See*—
Kocher, Hans.

Cotsworth, Albert, III, Oak Park, Ill., assignor to Zenith Radio Corporation. Automatic frequency control circuit for television receivers. 2,664,464, Dec. 29.

Coulter, Kenneth E., assignor to The Dow Chemical Company, Midland, Mich. Continuous distillation of heat sensitive compounds. 2,664,391, Dec. 29.

Cox, Joseph B., assignor, by mesne assignments, to Oregon Saw Chain Corporation, Portland, Oreg. File holder. 2,664,017, Dec. 29.

Coxhead, Ralph C., Corporation, assignee: *See*—
Canham, George E.
Johnson, Harry.

Craig, Alfred B.: *See*—
Ham, George E., and Craig.

Craighead, Charles M., assignor, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio. Ti-Mn-Fe alloys. 2,664,355, Dec. 29.

Crandall, Ronald E., Los Angeles, Calif., P. S. Kleven, Fort Worth, Tex., and L. E. Baldwin, Los Angeles, assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Hydraulic locking mechanism. 2,664,255, Dec. 29.

Crane Co., assignee: *See*—
Fennema, Richard.
McInerney, John A.

Crane, Victor S., and P. R. Honan, assignors to Delpark Corporation, Lebanon, Ind. Liquid filter device. 2,664,203, Dec. 29.

Creveling, Catherine B., and E. V. Pennell, Patterson, N. Y. Convertible hassock and bed combination. 2,664,145, Dec. 29.

Cromeans, John S., Dewey, Okla., assignor to Phillips Petroleum Company. Protection of refractories in a reaction system from high temperatures by blanketing gases. 2,664,402, Dec. 29.

Cromeans, John S., Dewey, Okla., assignor to Phillips Petroleum Company. Recovery of oxygenated organic compounds. 2,664,434, Dec. 29.

Cromling, J. H., assignee: *See*—
Eckbreth, Walter M.

Crompton & Knowles Loom Works, assignee: *See*—
Krukonis, Alexander C.
Payne, Oscar V.

Cunningham, Marcus M., assignor of one-third to J. R. Main, and one-third to A. S. Moody, Houston, Tex. Lighted cooling basin for air conditioning units. 2,664,311, Dec. 29.

Czarnecki, Casimer M.: *See*—
Czarnecki, Walter V., Jr., and C. M.

Czarnecki, Walter V., Jr., Baederwood, and C. M. Czarnecki Philadelphia, assignors to Eddington Metal Specialty Company, Eddington, Pa. Oil burner filter. 2,664,312, Dec. 29.

Dadd, Morris V., and P. L. Vermaire, Grand Rapids, assignors to General Motors Corporation, Detroit, Mich. Exhaust valve rotator. 2,664,076, Dec. 29.

Dalton, Harold R., Jenkintown, Pa., assignor, by mesne assignments, to Timefax Corporation, New York, N. Y. Stencil recording blank and preparation. 2,664,043, Dec. 29.

Dalton, Harold R., Jenkintown, Pa., assignor to Timefax Corporation, New York, N. Y. Electric signal recording blank. 2,664,044, Dec. 29.

Danielson, Elmer L., Oakland, and F. J. Dofsen, San Francisco, Calif., assignors to E. L. Danielson and F. J. Dofsen, as joint tenants. Forming a multipart plastic structure. 2,663,910, Dec. 29.

Danielson, Vernon S., Dolton, and W. D. Wallace, Park Forest, assignors to W. H. Miner, Inc., Chicago, Ill. Draft rigging for vehicles. 2,664,300, Dec. 29.

Darby, Joseph R., Richmond Heights, and L. E. Wells, Jr., Webster Groves, assignors to Monsanto Chemical Company, St. Louis, Mo. Plasticized halogen-containing resins. 2,664,410, Dec. 29.

Darner, Frederic M., Shaker Heights, and C. C. Walters, Willoughby, assignors, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio. Process and apparatus for reducing ferrous chloride in liquid form to elemental iron. 2,664,352, Dec. 29.

Dart Manufacturing Company, assignee: *See*—
Dart, William F.

Dart, William F., assignor to Dart Manufacturing Company, Mason, Mich. Measuring tape. 2,663,941, Dec. 29.

Davidson, Mary C., Washington, D. C. Article support. 2,664,209, Dec. 29.

Davies, Kenneth R., Radbourne, near Derby, and K. Herbstritt, Littleover, Derby, assignors to Rolls-Royce Limited, Derby, England. Fuel system for gas turbine engines. 2,664,152, Dec. 29.

Davies, Leonard T., Higham, assignor to Colcrete Limited, Strood, England. Cement mixer. 2,664,277, Dec. 29.

Debrie, André V. L. C., Paris, France. Exposure and film-feeding control device for photographic cameras. 2,664,037, Dec. 29.

De Loi, Daniel J., Philadelphia, Pa. Instantaneous automatic monitor. 2,664,503, Dec. 29.

Delpark Corporation, assignee: *See*—
Crane, Victor S., and Honan.

DeMello, Alfred C., New Bedford, Mass. Adjustable fishhook structure. 2,663,966, Dec. 29.

Den Hertog, Martinus, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Cyclic pulse controlled telecommunication selection system. 2,664,467, Dec. 29.

De Normanville, Edgar J., Ashridge Park, Berkhampstead, assignor of one-half to Auto Transmissions Limited, Coventry, England. Enicyclic power transmission mechanisms. 2,664,016, Dec. 29.

De Note, Frank J., assignor to The Bristol Tool Machine Company, Inc., Forestville, Conn. Gear operated pancake-type wrench for use in confined spaces. 2,664,020, Dec. 29.

De Rosa, John A.: *See*—
Snell, Chester A., Fain, and De Rosa.

Detienne, Adolphe, executor: *See*—
France, Antoine.

Detrex Corporation assignee: *See*—
Dinley, Clarence F.

Detroit Controls Corporation, assignee: *See*—
Landon, Walter S.

Diamond Alkali Company, assignee: *See*—
Cooper, Robert S.

Diamond Crystal Salt Co., assignee: *See*—
Miller, Frank G.

Dickey, John W., Newfield, N. Y., assignor to Bendix Aviation Corporation. Electrical heating system. 2,664,489, Dec. 29.

Dictaphone Corporation, assignee: *See*—
Yerkovich, Simon.

Diebold, Edward J., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Series capacitor protection. 2,664,525, Dec. 29.

Diebold, Edward J., Ardmore, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Series capacitor protector. 2,664,526, Dec. 29.

Diebold, George L., assignor to Venus Foundation Garments, Inc., Chicago, Ill. Brassière. 2,663,872, Dec. 29.

Diehl, John M.: *See*—
Andersen, Gordon W., and Diehl.

Dietrich, Albert, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Army. Sectional insulated door. 2,663,915, Dec. 29.

Dingledy, David P., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Glass composition. 2,664,359, Dec. 29.

Dinley, Clarence F., assignor to Detrex Corporation, Detroit, Mich. Solvent saver recovery apparatus. 2,663,950, Dec. 29.

Dixon, Julian A.: *See*—
Charles, Frank R., and Dixon.

Di Zazzo, Benedetti, Syracuse, N. Y. Hair trimming and shaving attachment for combs. 2,663,930, Dec. 29.

Dobkin, Israel T., Pittsburgh, Pa. Can with built-in dispenser. 2,664,223, Dec. 29.

Dodge, Sherwood O., Medford, assignor to H. F. Livermore Corporation, Allston, Mass. Letoff drive rod arm. 2,664,113, Dec. 29.

Dofsen, Floyd J.: *See*—
Danielson, Elmer L., and Dofsen.

Doremus, John A., and H. C. Waterman, assignors to Motorola, Inc., Chicago, Ill. Remote-control and supervisory control system. 2,664,554, Dec. 29.

Doucette, Edmund J., Long Branch, N. J. Collapsible sawhorse or trestle. 2,664,319, Dec. 29.

Dow Chemical Company, The, assignee: *See*—
Coulter, Kenneth E.
Reilly, John H.
Saunders, William P., and Strieter.

Dowden, Dennis A.: *See*—
Charlton, Francis R., and Dowden.

Downing, John, and J. G. N. Drewitt, Spondon, near Derby, England, assignors to British Celanese Limited. Converting fibrous cellulose into an easily powderable form. 2,663,907, Dec. 29.

Downing, John, and J. G. N. Drewitt, Spondon, near Derby, England, assignors to British Celanese Limited. Manufacture of water-soluble cellulose ethers. 2,664,422, Dec. 29.

Doyle, Edward J., assignee: *See*—
Swift, Walter S.

Doyle, Joseph C., assignor to Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper pack for manifolding typewriters. 2,664,301, Dec. 29.

Dresser Equipment Company, assignee: *See*—
Coberly, Clarence J.

Dresser Industries, Inc., assignee: *See*—
Rathman, Gilbert.

Drewitt, James G. N.: *See*—
Downing, John, and Drewitt.

Dunn, David L., Seattle, Wash. Flour sifter vibrated by electric motor having an unbalanced shaft. 2,664,201, Dec. 29.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Hellier, George W.
Linch, Adrian L.

Dwyer, James J.: *See*—
Speed, William C., and Dwyer.

Eagle Rule Mfg. Corp., assignee: *See*—
Gasstrom, Herman M., and J. E.

Ebauches S. A., assignee: *See*—
Haidégger, Hans.

Eckbreth, Walter M., Monongahela, assignor of one-third to J. H. Cromling, Bonola, Pa. Amusement device. 2,664,053, Dec. 29.

Eclipse Fuel Engineering Co., assignee: *See*—
Stadler, Albert.

Eddington Metal Specialty Company, assignee: *See*—
Czarnecki, Walter V., Jr., and C. M.

Edwards, Harold L.: *See*—
Vesper, Daniel M., and Edwards.

Edwards, W., & Co. (London) Limited, assignee: *See*—
Mansfield, Ernest J.

Eger, Ernst, Los Angeles, Calif., assignor to United States Rubber Company, New York, N. Y. Antiskid chain attachment. 2,664,133, Dec. 29.

Eichler, Edwin H., Dundee, Ill. Canning whole food articles. 2,664,358, Dec. 29.

Eisen, John B.: *See*—
Schlatter, Carl, Eisen, and Jefferson.

Ekstrand & Tholand Inc., assignee: *See*—
Kuzmick, Jerome F.

Eldridge, Tausias L., Jr., Brookline, and W. H. Young, Willow Grove, Pa., and F. G. MacRae, La Grange, Ill., assignors to Electric Service Manufacturing Company, Philadelphia, Pa. Expulsion type lightning arrester. 2,664,518, Dec. 29.

Electric & Musical Industries Limited, assignee: *See*—
Leyton, Eric M.

Electric Service Manufacturing Company, assignee: *See*—
Eldridge, Tausias L., Jr., Young, and MacRae.

Elkes, Peter J., High Point, N. C. Shoe press. 2,663,885, Dec. 29.

Elliott, Harold V., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Circuit breaker. 2,664,480, Dec. 29.

Elliott, Marvel A., Erie, Pa., assignor to General Electric Company. Piston wrist pin assembly. 2,664,327, Dec. 29.

Elliotte, Marion A., Grafton, N. Y. Vacuum street cleaner. 2,663,894, Dec. 29.

Ellsworth, Ransom C.: *See*—
Champlin, Charles L., Ellsworth, and Hickin.

Elmer, Otto C., Fishkill, assignor to The Texas Company, New York, N. Y. Adducts of thianaphthene-1-1-dioxide. 2,664,426, Dec. 29.

Emerson, Paul D., Media, assignor, by mesne assignments, to The Chemstrand Corporation, Philadelphia, Pa. Fluid treating apparatus for strands. 2,664,009, Dec. 29.

Emerson, Paul D., Media, assignor, by mesne assignments, to The Chemstrand Corporation, Philadelphia, Pa. Fluid treating apparatus for strands. 2,664,010, Dec. 29.

Emery, Alfred H., assignor to Standard Gage Company, Inc., Poughkeepsie, N. Y. Shockproof dial indicator gauge. 2,663,945, Dec. 29.

Emery Industries, Inc., assignee: *See*—
Goebel, Charles G.

Epstein, Hirsch, Chicago, Ill. Soldering terminal for electrical wires. 2,664,553, Dec. 29.

Erb, Annie B., executrix: *See*—
Erb, George C.

Erb, George C., deceased, by A. B. Erb, executrix, Flushing, assignor to American Can Company, New York, N. Y. Dispensing container with sifter top. 2,664,229, Dec. 29.

Erickson, Leonard A.: *See*—
Brown, Bernard A., and Erickson.

Ericsson, Eric A., and E. A. Wiberg, Stockholm, and E. A. Atterling, Enskede, assignors to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden. Device for connection of cables by means of plugs and sockets. 2,664,552, Dec. 29.

Eriksson, Allan H., assignor to Husqvarna Vapenfabriks Aktiebolag, Huskvarna, Sweden. Spool box for sewing machines. 2,664,059, Dec. 29.

Erteszek, Olga, Los Angeles, Calif. Foundation garment. 2,663,871, Dec. 29.

Esterer, Arnulf K.: *See*—
Van Beckum, William G., and Esterer.

Evers, Edward A., Los Angeles, Calif. Fireplace screen and hanger. 2,664,154, Dec. 29.

Ewing, Henry, Spondon near Derby, England, assignor to British Celanese Limited. Stripping of bobbins. 2,663,926, Dec. 29.

Ex-Cell-O Corporation, assignee: *See*—
Sanford, Roy S.

Extruded Plastics, Inc., assignee: *See*—
Slaughter, Charles E.

Fabaron, Paul F., Mercus Garrabet, assignor to Societe pour l'Exploitation de Procedes de Fabrication de Produits Electro-Chimiques et Electro-Metallurgiques Industriels, Paris, France. Manufacture of manganese. 2,664,351, Dec. 29.

Fain, Jacob M.: *See*—
Snell, Chester A., Fain, and De Rosa.

Falcone, Raymond J.: *See*—
Radeloff, Sidney P., and Falcone.

Famous Bathrobe Co., Inc., assignee: *See*—
Stern, Murray M.

Farkas, Walter G.: *See*—
Flexner, Leo A., and Farkas.

Fatkin, Harry W., Westville, N. J., assignor to Warren-Knight Company, Philadelphia, Pa. Surveyor's plumb line target. 2,663,937, Dec. 29.

Fausnaught, Robert A., Pittsburgh, assignor to Haws Refractories Company, Johnstown, Pa. Slag removal. 2,664,284, Dec. 29.

Feemster, David R., and R. S. Hinsey, assignors to The Bingham-Herbrand Corporation, Toledo, Ohio. Mechanism control. 2,664,014, Dec. 29.

Feichtinger, Hans, and S. Puschhof, Duisburg-Beeck, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany. Production of benzoic-p-sulfonamide. 2,664,439, Dec. 29.

Feldman, Samuel, Brooklyn, assignor to Felport Incorporated, New York, N. Y. Combination cap and eyeshield. 2,663,870, Dec. 29.

Felport Incorporated, assignee: *See*—
Feldman, Samuel.

Fenlind Engineering Co., assignee: *See*—
Lindmark, Karl L.

Fennema, Richard, assignor to Crane Co., Chicago, Ill. Check valve mounting. 2,664,264, Dec. 29.

Fenner, Eckhard: *See*—
Zimmer, Theodor, and Fenner.

Ferguson, Rector C., Gadsden, Ala., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Corn harvester. 2,663,983, Dec. 29.

Ferro Engineering Company, The, assignee: *See*—
Anthony, Benjamin F.

Fessenden, Ace C., assignee: *See*—
Sanford, Roy S.

Few, William, and J. D. Sauter, Cleveland Heights, assignors to The Clark Controller Company, Cleveland, Ohio. Electric motor system of wire block control. 2,664,529, Dec. 29.

Field, Howard, Jr.: *See*—
Lewis, Howard B., and Field.

Filper Corporation, assignee: *See*—
Perrelli, Joseph.

Finan, Thomas: *See*—
Brown, Everett C., and Finan.

Fischer, Karl, Oberderdingen, Germany. Heating plate structure. 2,664,492, Dec. 29.

Fischer, Paul E., Minneapolis, Minn., assignor, by mesne assignments, to E. G. Staude Manufacturing Company, Inc., Concord, N. H. Method and apparatus for making cartons for packaging of liquids. 2,664,034, Dec. 29.

Fisher, Hammond E., assignee: *See*—
Sierer, Payson, and Waterbury.

Fitch, Ellery R., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Trailer landing gear. 2,664,299, Dec. 29.

Fletcher, Ed: *See*—
Slayter, Games, and Fletcher.

Fletcher, John H., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. O-(2-chloro-4-nitrophenyl) O,O dimethyl thiophosphate. 2,664,437, Dec. 29.

Flex-O-Lators, Inc., assignee: *See*—
Richardson, William F.

Flexner, Leo A., Upper Montclair, and W. F. Farkas, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Increasing the solubility of riboflavin: 2,664,421, Dec. 29.

Fluor Corporation, Ltd., The, assignee: *See*—
Kohl, Arthur L., and Blohm.

Food Machinery and Chemical Corporation, assignee: *See*—
Russo, Vincent J., and Les Veaux.

Food Research Laboratories, Inc., assignee: *See*—
Winsten, Walter A.

Ford Motor Company, assignee: *See*—
Appel, Walter D.
Kavalar, Alfred.

Forges et Ateliers de Constructions Electriques de Jeumont, assignee: *See*—
Heidmann, Leon.

Forman Family, Inc., assignee: *See*—
Forman, Sol, Ramer, and Mund.

Forman, Sol, L. Ramer, and A. Mund, New York, assignors to Forman Family, Inc., Brooklyn, N. Y. Combination holder and receptacle such as cocktail glass and the like article. 2,664,004, Dec. 29.

Forstner Chain Corporation, assignee: *See*—
Albrecht, Karl.

Fox, Arthur L., Short Hills, and R. J. Mehaffey, River Edge, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Color-stable toilet waters and perfumes. 2,664,383, Dec. 29.

Fox, Samuel, Baltimore, Md. Joint and assembling the same. 2,664,320, Dec. 29.

France, Antoine, deceased, late of Liege, Belgium, by A. Detienne, executor, assignor to Rheo-France Compagnie Internationale des Rheolayeurs A. France, societe anonyme, Liege, Belgium. Process and plant for the mechanical preparation of coals and minerals by washing in a plurality of chutes. 2,664,196, Dec. 29.

Fratelli Borletti Societa per Azioni, assignee: *See*—
Amman, Giuseppe.

Frazel, Wilbur H., Warren, R. I., assignor to B-I-F Industries, Inc. Apparatus for determining weight of material on conveyers. 2,664,286, Dec. 29.

French American Reeds Manufacturing Co., Inc., assignee: *See*—
Maccaferri, Mario.

Freundlich, Albert, New York, N. Y. Apparatus for assembling tubular binders with loose-leaf books. 2,663,883, Dec. 29.

Frey, George W.: *See*—
Van Riper, Elmer, and Frey.

Friedheim, Ernst A. H., New York, N. Y. Heterocyclic metal and sulfur organic compounds. 2,664,432, Dec. 29.

Friedman, John H., assignor to The National Machinery Company, Tiffin, Ohio. Stock reel speed control mechanism. 2,664,250, Dec. 29.

Fuerst, Harry W., assignor of one-half to C. B. Jamison and one-half to M. Allen, Los Angeles, Calif. Sign device. 2,663,959, Dec. 29.

Fuglie, Elmer A., Winona, Minn., assignor to Winona Tool Manufacturing Company. Combination brush and Sponge windshield cleaner. 2,663,889, Dec. 29.

Gaiser, Carl, Gehling, Turgi, assignor to Mefina S. A., Benningen, Switzerland. Carrying case for portable sewing machines. 2,664,333, Dec. 29.

Galvin, Joseph M., Indianapolis, Ind. Apparatus for injecting filling within bakery products. 2,664,054, Dec. 29.

Gannon, Jesse, Culver City, assignor to Ben Weingart, Los Angeles, Calif. Well packer. 2,664,164, Dec. 29.

Gasstrom, Herman M., Pelham, and J. E. Gasstrom, Mount Vernon, assignors to Eagle Rule Mfg. Corp., New York, N. Y. Resilient folding rule hinge. 2,663,940, Dec. 29.

Gasstrom, John E.: *See*—
Gasstrom, Herman M., and J. E.

Gear Grinding Machine Company, The, assignee: *See*—
Brady, Samuel G.

Geiler, Frederick C., assignor to The Monarch Marking Machine Company, Dayton, Ohio. Selectively operable cutoff mechanism for marking machines. 2,664,159, Dec. 29.

Gendron, Freres, S. A., assignee: *See*—
Gerard, Paul, and Seranne.

General Aniline & Film Corporation, assignee: *See*—
Randall, David L., and Renfrew.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Bain, James, Jr.
Elliott, Marvel A.
Henderson, Wayne L.
Howard, Alan.
Huntley, Edson D.
Kuebler, Robert A.
McKeag, Alfred H., and Ranby.
Peters, Leo R.
Smith, Russell M., and Bellis.
Thayer, Richard N.
Wells, Bruce A.
Young, Charles M.
Zabel, William P.

General Motors Corporation, assignee: *See*—
Abresch, Carel F.
Brown, Bernard A., and Erickson.
Dadd, Morris V., and Vermaire.
Elliott, Harold V.
Hobart, John P.
Lentz, Marshall E.
Waag, Harry O., and Prance.
Zmuda, Andrew W.

General Package Corporation, assignee: *See*—
Burger, Martin.

General Precision Laboratory Incorporated, assignee: *See*—
Gillette, Frank N.
Raitiere, Louis P.

Gerard, Paul, Paris, and H. Seranne, assignors to Gendron Freres, S. A., Villeurbanne, France. System for controlling the position of a shaft in its bearings. 2,663,977, Dec. 29.

Gessmann, Edmund G., Woodside, assignor to L. Batlin & Son, Inc., New York, N. Y. Lighter. 2,664,008, Dec. 29.

Gilbert, Clifford J., Philadelphia, Pa. Thread gauge. 2,663,947, Dec. 29.

Gillette Company, The, assignee: *See*—
Muros, Joseph.

Gillette, Frank N., Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated. Television recorder. 2,664,465, Dec. 29.

Gillette, Frank N., Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated. Universal focus sound scanning system. 2,664,470, Dec. 29.

Giroz, Henri E., Paris, France. Adjustable airplane-helicopter airscrew. 2,564,168, Dec. 29.

Given Machinery Company, assignee: *See*—
Jordan, Hans.

Glasgow, Clarence O.: *See*—
Walker, Jay P., and Glasgow.

Glass Fibers, Inc., assignee: *See*—
Labino, Dominick.

Glew, Kermit, San Jose, Calif. Tape dispenser. 2,664,252, Dec. 29.

Glotfelter, Herman E., Indianapolis, Ind. Combined desk and safe. 2,664,331, Dec. 29.

Glynn, Thomas, West Haven, and J. W. Cleever, Milford, Conn., assignors to Raybestos-Manhattan, Inc., Passaic, N. J. Composition roller skate wheel. 2,664,317, Dec. 29.

Gobin, René G., assignor to J. Lory, Paris, France. Powder dispenser for attached powder puff. 2,664,226, Dec. 29.

Goebel, Charles G., assignor to Emery Industries, Inc., Cincinnati, Ohio. Manufacturing polymerized fatty acids. 2,664,429, Dec. 29.

Goldman, William, Brooklyn, N. Y. Steam pressing machine. 2,663,954, Dec. 29.

Goodale, Elmer D., New Rochelle, N. Y., assignor to Radio Corporation of America. Electric signal distribution system. 2,664,546, Dec. 29.

Goodban, Alan E.: *See*—
Owens, Harry S., Stark, and Goodban.

Goodman, Henry B., New London, Conn. Separating enclosure for towel racks. 2,664,208, Dec. 29.

Goodman Manufacturing Company, assignee: *See*—
Miller, Fred B.

Gorden, Henry C., assignor to Gorman Manufacturing Corporation, Los Angeles, Calif. Electrical resistor. 2,664,487, Dec. 29.

Gorham, George, assignor to Technicon Cardiograph Corporation, New York, N. Y. Stylus for recorders. 2,664,335, Dec. 29.

Gorman Manufacturing Corporation, assignee: *See*—
Gorden, Henry C.

Gorton, Willard L., assignor to United Aircraft Corporation, East Hartford, Conn. Centrifugal compressor rotor vibration damper. 2,664,240, Dec. 29.

Gosnell, Hardy B., Greenville, S. C. Fabric let back means for looms. 2,664,115, Dec. 29.

Goudy, Paul R., and K. G. Sedgwick, Milwaukee, Wis., assignors to Square D Company, Detroit, Mich. Electric switch. 2,664,482, Dec. 29.

Gransden, Lyle, Edenville, Mich. Beet topping mechanism. 2,663,986, Dec. 29.

Greenlee Bros. & Co., assignee: *See*—
Mansfield, Judson H., and Swanson.

Greiner, Charles A., New Orleans, and E. F. Greiner, Metarie, La. Apparatus for removing heads from bodies of shrimps. 2,663,897, Dec. 29.

Greiner, Charles A. and E. F., New Orleans, La. Removing heads from bodies of shrimps. 2,663,900, Dec. 29.

Greiner, Elbert F.: *See*—
Greiner, Charles A. and E. F.

Greiner, Elbert F., New Orleans, La. Machine for deveining shrimps. 2,663,898, Dec. 29.

Griffin, Thomas C., Denver, Colo. Order board. 2,664,302, Dec. 29.

Guhl, Alfred, Hamburg, Germany. Pencil sharpener. 2,664,071, Dec. 29.

Guide & Supply Co. Inc., assignee: *See*—
Meltzer, George B.

Gulf Oil Corporation, assignee: *See*—
Cornell, Paul W.

Gullett Gin Company, assignee: *See*—
Wallace, Jeffrey J.

Gwynne, Jacob M., Atlanta, Ga. Nailable metal structural member. 2,664,179, Dec. 29.

Haensel, Vladimir, Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Two-stage process for the catalytic reforming of gasoline. 2,664,386, Dec. 29.

Hager, George L., Rockford, Ill. Conveyer feed mechanism. 2,664,189, Dec. 29.

Haldégger, Hans, assignor to Ebauches S. A., Grenchen, Canton of Soleure, Switzerland. Device for testing the tolerances of workpieces. 2,663,943, Dec. 29.

Hale, Andrew, and G. V. Kullgren, Akron, assignors, by mesne assignments, to The Aetna-Standard Engineering Company, Youngstown, Ohio. Apparatus for milling rubber. 2,663,901, Dec. 29.

Hale, Lloyd: *See*—
Luksch, Andreas, and Hale.

Hale, William J., and P. Vogelsang, Midland, assignors, by mesne assignments, to Verdurin Company, Detroit, Mich. Seed germination. 2,664,350, Dec. 29.

Haley, Hugh D., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Bottom draining spinning bucket. 2,663,988, Dec. 29.

Hall, Charles L., Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Lamp socket having a resiliently mounted contact. 2,664,548, Dec. 29.

Hall, Robert E., Larkinsville, Ala. Automatic lighting circuit. 2,664,524, Dec. 29.

Ham, George E., and A. B. Craig, assignors to The Chemstrand Corporation, Decatur, Ala. Copolymers of acrylonitrile and nicotinamides. 2,664,412, Dec. 29.

Hamm, Douglas W., assignor to Muskegon Piston Ring Company, Muskegon, Mich. Piston ring construction. 2,664,328, Dec. 29.

Hammermann, Herbert, Berlin, Germany. Anesthetic apparatus. 2,664,084, Dec. 29.

Hammitt, Andrew B., and H. L. Birnm, Jr., Trenton, N. J. Flashing construction. 2,664,177, Dec. 29.

Hammond, Gordon, Ashland, assignor to Reynolds Metals Company, Richmond, Va. Machine for closing containers. 2,664,060, Dec. 29.

Hanley, Frank H., Butler City, N. J., assignor to American Telephone and Telegraph Company. Multiway telegraph repeater system. 2,664,466, Dec. 29.

Hanryon, Maurice P., Compiegne, France. Contact delivery device for perfume. 2,663,891, Dec. 29.

Hansen, Gerhard, Heidenheim on the Brex, assignor to Zeiss-Opton Optische Werke Oberkochen G. m. b. H., Oberkochen, Wurttemberg, Germany. Wave length indicator in spectral apparatus. 2,664,024, Dec. 29.

Harlin Brothers, assignee: *See*—
Harlin, J. D.

Harlin, J. D., assignor to Harlin Brothers, Indianapolis, Ind. Electrical receptacle, plug, and switch. 2,664,475, Dec. 29.

Harper, John F., Portland, Conn. Polishing method and material. 2,663,980, Dec. 29.

Hartford National Bank and Trust Company, executors: *See*—
White, Ezekiel F.

Hartwright, George: *See*—
Higgs, Morton C., and Hartwright.

Harvey, Merlin P.: *See*—
Ladd, Elbert C., and Harvey.

Haws Refractories Company, assignee: *See*—
Fausnaught, Robert A.

Hazeltine Research, Inc., assignee: *See*—
McIlwain, Knox.
Richman, Donald.

Heckathorn, Loyd E., Garden Grove, assignor to Towner Manufacturing Co., Santa Ana, Calif. Variable tread earthworking implement with frame leveling means. 2,664,039, Dec. 29.

Heidmann, Leon, assignor to Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France. Equipment for automatically controlling single phase motors. 2,664,536, Dec. 29.

Heim, Jacob G., San Gabriel, Calif. Nondrip fluid dispensing vessel. 2,664,230, Dec. 29.

Heinrich, Raymond L., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Lubricating oil composition of high viscosity and preparing same. 2,664,436, Dec. 29.

Heller, George W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Manufacture of articles from polyethylene films. 2,664,378, Dec. 29.

Henderson, Leonard B., Olton, England. Rolling machine. 2,664,019, Dec. 29.

Henderson, Wayne L., Fort Wayne, Ind., assignor to General Electric Company. Electric ballast. 2,664,541, Dec. 29.

Hendrickson, Harold S., Hempstead, assignor to The Sperry Corporation, Great Neck, N. Y. Air-speed control system. 2,664,254, Dec. 29.

Herbstritt, Karl: *See*—
Davies, Kenneth R., and Herbstritt.

Hercules Powder Company, assignee: *See*—
Lorand, Eugene J., and Reese.

Herman, William F., Sturbridge, assignor to American Optical Company, Southbridge, Mass. Contact lenses and making same. 2,664,025, Dec. 29.

Herrick, Wallace D., Dayton, Ohio. Guard for industrial machines. 2,664,332, Dec. 29.

Hertel, Richard K., Winston-Salem, N. C., and G. F. Nicolson, South Gate, assignors to Byron Jackson Co., Vernon, Calif. Hook locking mechanism. 2,664,175, Dec. 29.

Hess, Frederic O., Philadelphia, and J. Kniveton, Wyncote, assignors to Selas Corporation of America, Philadelphia, Pa. Furnace control system. 2,664,283, Dec. 29.

Hess, Howard V.: *See*—
Pevere, Ernest F., Arnold, and Hess.

Heuboski, Walter J., and H. T. Milgrom, Chicago, Ill. Pessary. 2,664,082, Dec. 29.

Heuser, Leon J.: *See*—
Lott, William A., Bernstein, and Heuser.

Heymans, Joseph A., South Gate, Calif. Restraining device. 2,664,083, Dec. 29.

Hickin, Robert J.: *See*—
Champlin, Charles L., Ellsworth, and Hickin.

Higgins, Richard L., Detroit, Mich. Remotely adjustable rearview mirror. 2,664,029, Dec. 29.

Higgs, Morton C., Whittier, Calif., and G. Hartwright, assignors to United States Gypsum Company, Chicago, Ill. Bituminous product surfaced with mineral granules and making same. 2,664,362, Dec. 29.

Hill, Glenn E., assignor to I. A. Brock, Los Angeles, Calif. Display rail. 2,663,879, Dec. 29.

Himelfarb, Fred: *See*—
Spradlin, Joe D., and Himelfarb.

Hines, Pierre R., Portland, Oreg. Differential froth flotation process. 2,664,198, Dec. 29.

Hinkley, Paul Y., Los Angeles, assignor to C & H Development Company, South Gate, Calif. Saw chain. 2,664,120, Dec. 29.

Hinsey, Robert S.: *See*—
Feemster, David R., and Hinsey.

Hinson, James L., Winfield, Kans. Forage harvester. 2,663,985, Dec. 29.

Hintsala, Eino W., New York Mills, Minn. Cap hanger. 2,663,875, Dec. 29.

Hobart, John P., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Shift rod adjusting clamp. 2,664,305, Dec. 29.

Hobson, H. M. Limited, assignee: *See*—
Swaab, Cyril H.

Hoch, John, Wauwatosa, assignor to Braun-Hobar Corporation, Milwaukee, Wis. Apertured tube for the treatment of piles or the like. 2,664,088, Dec. 29.

Hoenger, Guido, Zuchwil, assignor to Mefina S. A., Binningen, Switzerland. Mechanical time fuse mechanism for projectiles. 2,664,046, Dec. 29.

Hoffmann, Karl, Binningen, and E. Tagmann, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Dioxo-piperidines. 2,664,424, Dec. 29.

Hoffmann-La Roche Inc., assignee: *See*—
Flexner, Leo A., and Farkas.

Hollingsworth, Philip M., Sidcup, Kent, assignor to Johnson and Phillips Limited, London, England. Electric cable. 2,664,372, Dec. 29.

Hollymade Hardware Manufacturing Company, assignee: *See*—
Cerf, Robert C., Jr.

Holub, Edward M.: *See*—
Babcock, Roger S., and Holub.

Honan, Paul R.: *See*—
Crane, Victor S., and Honan.

Hornberger, Clarence L., Manheim Township, Lancaster County, and A. Schulz, assignors to Armstrong Cork Company, Lancaster, Pa. Method and apparatus for forming threaded articles. 2,664,136, Dec. 29.

Hornbostel, Lloyd, and E. D. Beachler, assignors to Beloit Iron Works, Beloit, Wis. Stock inlet. 2,664,033, Dec. 29.

Hortman, Harvey E., Jr., Southampton, assignor to Protector Electric Company, Philadelphia, Pa. Ironing table top and making the same. 2,663,957, Dec. 29.

Houdry, Eugene J., Ardmore, Pa. Catalytic apparatus and method for treating exhaust gases. 2,664,340, Dec. 29.

Houdry Process Corporation, assignee: *See*—
Strader, Leroy F.

Houth, George: *See*—
La Piana, Fred G., and Houth.

Howard, Alan, Schenectady, N. Y., assignor to General Electric Company. Overhung turbo-machine rotor arrangement. 2,664,268, Dec. 29.

Howard, Forbes, Grosse Pointe Farms, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Lamp socket provided with means to secure it to an apertured panel. 2,664,550, Dec. 29.

Howard, Kenneth C., Forth Worth, Tex., and H. E. McGowen, Jr., and H. H. Moore, Jr., Bunkie, La., assignors to Sid W. Richardson Inc., Fort Worth, Tex. Means for installing and removing flow valves. 2,664,162, Dec. 29.

Howard Manufacturing Co., assignee: *See*—
Howard, Paul N.

Howard, Paul N., assignor to Howard Manufacturing Co., Kent, Wash. Resilient slat-seat chair. 2,664,149, Dec. 29.

Howland, John R., Lake Forest, Ill., assignor to Zenith Radio Corporation. Subscriber receiver enunciator. 2,664,461, Dec. 29.

Howser, Julia M., administratrix: *See*—
Howser, Walter M.

Howser, Walter M., deceased, Indianapolis, Ind., J. M. Howser, administratrix of said W. M. Howser. Pressure sealed valve. 2,664,265, Dec. 29.

Huber, Matthew W., Watertown, N. Y., assignor to The New York Air Brake Company. Variable delivery pump. 2,664,047, Dec. 29.

Huber, Matthew W., Watertown, N. Y., assignor to The New York Air Brake Company. Hydraulic pump with by-pass flow. 2,664,048, Dec. 29.

Hudson, Thomas B., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalytic synthesis of organic compounds. 2,664,433, Dec. 29.

Huguenin, Marc, assignor to Montres Rolex S. A., Geneva, Switzerland. Anchor escapement for timepieces. 2,663,991, Dec. 29.

Hulin, Gloria, assignee: *See*—
Sierer, Payson, and Waterbury.

Huntley, Edson D., Scotia, N. Y., assignor to General Electric Company. Dynamoelectric machine core and winding ventilation arrangement. 2,664,512, Dec. 29.

Hurter, Alfred T., assignor to Stadler, Hurter & Company, Montreal, Quebec, Canada. Rotary drainage screen. 2,664,204, Dec. 29.

Hurvitz, Hyman, Washington, D. C. Auto correlation. 2,664,243, Dec. 29.

Husqvarna Vapenfabriks Aktiebolag, assignee: *See*—
Eriksson, Allan H.

Huston, Daniel F., Burlington, Iowa. Temple measure. 2,663,949, Dec. 29.

Hutchinson, William M., Bartlesville, Okla., assignor to Phillips Petroleum Company. Ion-exchange resins from carboxyalkyl cellulose ethers. 2,664,397, Dec. 29.

Hydrocarbon Research, Inc., assignee: *See*—
Mayhew, Robert L.

Hydropress, Incorporated, assignee: *See*—
Bottenhorn, Hermann A.

Hyman, Henry, assignee: *See*—
Lang, Maurice.

I-T-E Circuit Breaker Company, assignee: *See*—
Caswell, Arthur S.
Diebold, Edward J.
Pokorny, Frank J.
Schymik, Walter H.

Iager, Raymond F., Alliance, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y. Fluid circuit resistor construction. 2,664,109, Dec. 29.

Igoe, Celestine M.: *See*—
O'Keefe, John B., and Igoe.

Illinois Tool Works, assignee: *See*—
Rapata, George M.
Travis, Horace F.

Imperial Chemical Industries Limited, assignee: *See*—
Charlton, Francis R., and Dowden.
Speakman, Raymond H.

Industrial Research Laboratory Inc., assignee: *See*—
Cito, Camillo.

Ingle, Donald P.: *See*—
Reiches, Sol L., and Ingle.

Ingram, Joseph R., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Preserving a rubber which comprises treating the rubber with a solid resinous aralkylated dihydroquinoline antioxidant. 2,664,407, Dec. 29.

International Nickel Company, Inc., The, assignee: *See*—
Bieber, Clarence G., and Sumpter.

International Standard Electric Corporation, assignee: *See*—
Beszedics, Geza E.
Den Hertog, Martinus.
Montchausse, André J.

Ippolito, Domenick, Glendale, Calif. Doll construction. 2,663,971, Dec. 29.

Irwin, Herbert G., Noble, La. Arrow shooter. 2,664,078, Dec. 29.

Isenberg, Alexander H., Woodside, Calif. Spacer plate for pipes in insulated conduits. 2,664,112, Dec. 29.

Ishler, Harry K., Lansdale, assignor to Philco Corporation, Philadelphia, Pa. Mount assembly for electron tubes. 2,664,519, Dec. 29.

Jackson, Byron, Co., assignee: *See*—
Hertel, Richard K., and Nicolson.

Jackson, Forrest A., Portland, Oreg. Resilient seat mounting. 2,664,146, Dec. 29.

Jacoby, George W., Jr., Wooster, Ohio. Device for sharpening hypodermic needles and other instruments. 2,663,976, Dec. 29.

Jamison, C. Bland, assignee : *See*—
Fuerst, Harry W.

Jefferson, George D. : *See*—
Schlatter, Carl, Eisen, and Jefferson.

Jester, Arthur W., Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Folding machine. 2,663,886, Dec. 29.

Johansson, Karl L., Bromma, Sweden. Electromagnetic relay. 2,664,478, Dec. 29.

Johnson, Alvin L., Worcester, Mass. Combined stroller and high chair. 2,664,144, Dec. 29.

Johnson, Ava J., Oakland, assignor to Shell Development Company, Emeryville, Calif. Hydrogen halide production. 2,664,342, Dec. 29.

Johnson, Carl E. : *See*—
Wolff, William F., and Johnson.

Johnson, Clarence, Orfordville, Wis. Valve mechanism. 2,664,266, Dec. 29.

Johnson, Harry, Elizabeth, assignor to Ralph C. Coxhead Corporation, Newark, N. J. Rear-strike typewriter mechanism. 2,664,184, Dec. 29.

Johnson and Phillips Limited, assignee : *See*—
Hollingsworth, Philip M.

Johnson, Scott R., River Forest, and E. G. Blaing-Leisk, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Can bag unloading method and apparatus. 2,664,216, Dec. 29.

Johnson, Scott R., River Forest, and E. G. Blaing-Leisk, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Can bag unloading apparatus. 2,664,218, Dec. 29.

Gongeneel, Albert M., assignee : *See* –
Schmidt, Lloyd K.

Jordan, Hans, assignor, by mesne asignments, to Given Machinery Company, Los Angeles, Calif. Waste disposal device. 2,664,247, Dec. 29.

Joublanc, Joseph C., Zanesville, Ohio, assignor to McGraw Electric Company, Milwaukee, Wis. Transformer bushing. 2,664,457, Dec. 29.

Kamlet, Jonas, Easton, Conn., assignor to Mathieson Chemical Corporation. Purification of perchloromethyl mercaptan. 2,664,442, Dec. 29.

Karig, Horace E., Pasadena, Calif. Method of and apparatus for lubrication and cooling of surfaces. 2,664,173, Dec. 29.

Kavalar, Alfred, Detroit, assignor to Ford Motor Company, Dearborn, Mich. Convertible top boot construction. 2,664,309, Dec. 29.

Kavanagh, Arthur J., Darien, Conn., assignor to American Optical Company, Southbridge, Mass. Reflecting type image forming lens system. 2,664,026, Dec. 29.

Keast, Dorothy M., Philadelphia, Pa. Pressing equipment for pile fabrics. 2,663,958, Dec. 29.

Kee Lox Manufacturing Company, assignee : *See*—
Doyle, Joseph C.

Kellogg, Jack V., Ashtabula, Ohio. Toy bomber. 2,663,969, Dec. 29.

Kellogg, M. W., Company, The, assignee : *See*—
Burton, William P., and Solomon.
Passion, Herbert J.

Kenney, Guy G., Cincinnati, Ohio. Electric heater appliance for lunch boxes. 2,664,491, Dec. 29.

Kennison, Everett B., Detroit, Mich. Vehicle drier. 2,663,951, Dec. 29.

Kesting, Edelbert E., Munich, Germany. Continuous method and apparatus for the production of chlorine dioxide. 2,664,341, Dec. 29.

Kiefer, John M., Jr., Bedford, Ohio, assignor to United States Steel Corporation. Softening low-carbon medium-alloy steel. 2,664,369, Dec. 29.

Kindelberger, James H., Pacific Palisades, Calif. Child's automobile seat. 2,664,140, Dec. 29.

King, Lewis O., Willoughby, assignor to The Weatherhead Company, Cleveland, Ohio. Cylinder boss assembly. 2,664,222, Dec. 29.

King, Raymond D., Roseville, Mich. Tip-up device for fishing through ice. 2,663,962, Dec. 29.

Klapheke, Frank E. : *See*—
Cord, Howard O., Merten, and Klapheke.

Kleinman, Harry, Staten Island, N. Y. Rink roller skate with quickly exchangeable trucks. 2,664,294, Dec. 29.

Kleven, Peter S. : *See*—
Crandall, Ronald E., Kleven, and Baldwin.

Kling, Ken, assignee : *See*—
Sierer, Payson, and Waterbury.

Kluender, Arnold F., Chicago Heights, Ill., assignor to Mor-Film Company. Coating and lubricating composition. 2,664,399, Dec. 29.

Knapp, Mary C., Springville, N. Y. Crayon pointer. 2,664,072, Dec. 29.

Knight, Elton G., and J. W. Miller, Los Angeles, Calif. Pneumatically-controlled soil sampler. 2,664,269, Dec. 29.

Kniveton, James : *See*—
Hess, Frederic O., and Kniveton.

Koch, Otto, Selb-Ploesberg (Oberfranken), assignor to Rosenthal-Porzellan A. G., Selb (Oberfranken), Germany. Accommodation and storage of crockery. 2,664,193, Dec. 29.

Kocher, Hans, Cortebert, Bern, assignor to Cortebert Watch Co., Cortebert, Switzerland. Index regulator set. 2,663,990, Dec. 29.

Kohl, Arthur L., and C. L. Blohm, assignors to The Fluor Corporation, Ltd., Los Angeles, Calif. Manufacture of sulfur from H_2S-hydrocarbon containing gases. 2,664,345, Dec. 29.

Kohn, Harold B., Bronx, assignor to The Lummus Company, New York, N. Y. Supporting beams for bubble trays and the like. 2,664,280, Dec. 29.

Konet, Henry, Hohokus, N. J., and P. E. Selfried, New City, N. Y., assignors to Bendix Aviation Corporation, Teterboro, N. J. Indicating device. 2,664,558, Dec. 29.

Koonz, Carl H. : *See*—
Biddinger, Guy R., and Koonz.

Kosbahn, Thomas : *See*—
Sachsse, Hans, Kosbahn, and Lehrer.

Kosinski, Frank E., Detroit, Mich. Culinary utensil holder. 2,664,005, Dec. 29.

Kraska, Reinhold M., Altadena, Calif. Table with folding legs. 2,664,329, Dec. 29.

Krukonis, Alexander C., Auburn, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Photoelectrically controlled loom protection. 2,664,116, Dec. 29.

Krumbach, Will, Burlington, Wis. Pulley mounting for sawing equipment of the bandsaw type. 2,664,118, Dec. 29.

Kubon, Clifford W., Aitkin, Minn. Vegetable slicing machine. 2,664,130, Dec. 29.

Kuebler, Robert A., Cleveland Heights, Ohio, assignor to General Electric Company. Lamp base end contact. 2,664,551, Dec. 29.

Kullgren, Gilbert V. : *See*—
Hale, Andrew, and Kullgren.

Kuzmick, Jerome F., Upper Montclair, N. J., assignor to Ekstrand & Tholand Inc., New York, N. Y. Plated bearing and the manufacture thereof. 2,664,326, Dec. 29.

Kwartler, Charles E., Albany, assignor to Winthrop-Stearns Inc., New York, N. Y. N-(n-dodecyl)-N-(3,4-dichlorophenethyl)-N,N-dimethyl ammonium compounds. 2,664,444, Dec. 29.

Labino, Dominick, Maumee, assignor to Glass Fibers, Inc., Toledo, Ohio. Producing glass fibers and bonded mat. 2,663,906, Dec. 29.

Ladd, Elbert C., and M. P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Dialkyl 3-dodecyloxypropane-1-phosphonate. 2,664,438, Dec. 29.

Lajeunesse, Joseph W., assignee : *See*—
Normand, Wilfrid.

Lake, Harry F., West Dearborn, Mich. Metal archer's bow. 2,664,079, Dec. 29.

La Mantia, Marion C., Detroit, Mich. Pliers holster. 2,664,231, Dec. 29.

La Marr, John E., Torrance, Calif. Combination brake and steering attachment for toboggans. 2,664,174, Dec. 29.

Lambert Company, The, assignee : *See*—
Winslow, Charles H., Jr., and Williston.

Landers, Frary and Clark, assignee : *See*—
Anderson, Oscar M.

Landis Tool Company, assignee : *See*—
Price, Ralph E., and Balsiger.

Landon, Marion E., administratrix : *See*—
Landon, Walter S.

Landon, Walter S., deceased, by M. E. Landon, administratrix, assignor to Detroit Controls Corporation, Detroit, Mich. Liquid level control means. 2,664,099, Dec. 29.

Lang, Maurice, Brooklyn, assignor to H. Hyman, New York, N. Y. Battery electrode. 2,664,453, Dec. 29.

Lanier, Harold S., Welcome, N. C. Adjustable television or radio cabinet base. 2,664,258, Dec. 29.

Lantz, Grover R. : *See*—
Mathers, Frank C., and Lantz.

La Piana, Fred G., North Eastham, Mass., and G. N. Houth, Cranston, R. I., assignors to Stein, Hall & Company, Inc., New York, N. Y. Printing pigment colors on glass fabrics. 2,664,365, Dec. 29.

Larson, Ralph A. : *See*—
Maier, Curtis E., Brockett, and Larson.

Laughter, D. Robert, assignee, trustee : *See*—
Noodleman, Samuel, and Wise.

Lawler, John A., assignor to Boeing Airplane Company, Seattle, Wash. System for obtaining nitrogen from air by adsorption of oxygen. 2,664,171, Dec. 29.

Lawler, John J., assignee : *See*—
Lewis, Herbert R.

Lecours, Raymond, St. Laurent, Quebec, Canada. Rotary clipper head. 2,663,931, Dec. 29.

Lee, Joseph L., Bergen County, assignor, by mesne assignments, to Margon Corporation, Bayonne, N. J. Movable doll's eye. 2,663,972, Dec. 29.

Lee-Norse Company, assignee : *See*—
Arentzen, Elnar M.

Lee, William D., Chevy Chase, Md. Chance controlled game board. 2,664,292, Dec. 29.

Leff, Alexander, Brooklyn, N. Y. Tool for removing tooth enamel. 2,663,934, Dec. 29.

Lehrer, Erwin : *See*—
Sachsse, Hans, Kosbahn, and Lehrer.

Lentz, Marshall E., Bedford, Ind., assignor to General Motors Corporation, Detroit, Mich. Core lifting and setting fixture. 2,663,919, Dec. 29.

Lepkowski, Thomas W., New York, assignor of one-half to M. Silon, Brooklyn, N. Y. Combined ball-point marking compass, dividers and scriber. 2,663,936, Dec. 29.

Le Roy, Eugene : *See*—
Murdock, Joseph K., Le Roy, and Oswald.

Les Veaux, John F. : *See*—
Russo, Vincent J., and Les Veaux.

Leverte, Robert J., Elmont, assignor to S. C. Miller, deceased (R. E. Miller, executrix), New York, N. Y. Fastening collar for attaching a cylindrical element to a perforated plate. 2,664,132, Dec. 29.

Levkoff, David, Great Neck, N. Y. Carton blank. 2,664,236, Dec. 29.

Lewis, Herbert R., Oak Park, assignor of one-half to J. J. Lawler, Chicago, Ill. Medicinal slipper. 2,664,087, Dec. 29.

Lewis, Howard B., and H. Field, Jr., assignors to B. F. McDonald Company, Los Angeles, Calif. Intermittently operating direction responsive switch. 2,664,477, Dec. 29.

Lewis, Leroy V., Hollywood, Fla. Dough conveyer. 2,664,214, Dec. 29.

Lewus, Alexander J., Cicero, Ill. Control circuits for induction motors. 2,664,532, Dec. 29.

Leyton, Eric M., London, assignor to Electric & Musical Industries Limited, Hayes, England. Reduction of the angle-modulation of amplitude-modulated oscillations. 2,664,545, Dec. 29.

Li Calsi, Alfonso, Sunnyside, N. Y. Collapsible and portable high chair. 2,664,143, Dec. 29.

Linch, Adrian L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilized aromatic amines. 2,664,445, Dec. 29.

Lindmark, Karl L., Rockford, assignor, by mesne assignments, to Fenlind Engineering Co., Loves Park, Ill. Lapper for carbide tipped tools. 2,663,978, Dec. 29.

Lindstrom, Arnold O., Republic, Wash. Clothesline support. 2,664,211, Dec. 29.

Liquidometer Corporation, The, assignee : *See*—
Sontheimer, Carl G.

Litchford, George B. : *See*—
Lyman, Joseph, and Litchford.

Little, Arthur D., Inc., assignee : *See*—
Reed, Flood E., Jr.

Livermore, H. F., Corporation, assignee : *See*—
Dodge, Sherwood O.

Livers, Carlos B., North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., Stroke-limiting control valve for hydraulic motors. 2,664,106, Dec. 29.

Lombard, Adrian A., Allestree, Derby, and D. H. Mattinson, assignors to Rolls-Royce Limited, Derby, England. Engine starter system. 2,663,994, Dec. 29.

Longino, Hugh A., O'Donnell, Tex. Balloon handle and whistle. 2,663,968, Dec. 29.

Lorand, Eugene J., Wilmington, Del., and J. E. Reese, St. Simons Island, Ga., assignors to Hercules Powder Company, Wilmington, Del. Oxidation of aromatic hydrocarbons. 2,664,447, Dec. 29.

Lorand, Eugene J., Wilmington, Del., and J. E. Reese, St. Simons Island, Ga., assignors to Hercules Powder Company, Wilmington, Del. Oxidation of aromatic hydrocarbons. 2,664,448, Dec. 29.

Lory, Jacques, assignee : *See*—
Gobin, René G.

Lott, William A., Maplewood, J. Bernstein, New Brunswick, and L. J. Heuser, Robbinsville, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md. Purification of antibiotics. 2,664,419, Dec. 29.

Lott, William A., Maplewood, J. Bernstein, New Brunswick, and L. J. Heuser, Robbinsville, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md. Purification of antibiotics. 2,664,420, Dec. 29.

Luksch, Andreas, and L. Hale, assignors to G. H. Tennant Company, Minneapolis, Minn. Machine for cutting, cleaning, grooving, and treating surfaces. 2,664,281, Dec. 29.

Lummus Company, The, assignee : *See*—
Kohn, Harold B.
O'Connor, Ward J. F., and Rowen.
Worn, George A., and Rubin.

Lund, Erik F., Herning, Denmark. Circular knitting machine. 2,664,006, Dec. 29.

Lyman, Joseph, Huntington, and G. B. Litchford, Cold Spring Harbor, N. Y., assignors to The Sperry Corporation. Radio aid to navigation. 2,664,560, Dec. 29.

Lynn, Ralph D., Tulsa, Okla., assignor to Standard Oil Development Company. Magnetic well logging apparatus. 2,664,542, Dec. 29.

Lyon, George A., Detroit, Mich. Wheel cover. 2,664,318, Dec. 29.

Lyon, George A., Detroit, Mich. Plastic helmet. 2,663,874, Dec. 29.

Maccaferri, Mario, Rye, assignor to French American Reeds Manufacturing Co., Inc., New York, N. Y. Nut for stringed musical instruments. 2,664,022, Dec. 29.

Mackintosh, Charles, Los Angeles, Calif. Grandstand. 2,663,913, Dec. 29.

Mackintosh, Charles, Los Angeles, Calif. Grandstand. 2,663,914, Dec. 29.

MacRae, Fred G. : *See*—
Eldridge, Tauslas I., Jr., Young, and MacRae.

Magni, Karl G., Ronninge, assignor to Aktiebolaget Separator, Stockholm, Sweden. Pneumatic pulsator. 2,664,095, Dec. 29.

Magnus, Carl E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Machine for applying protective spots to the pads of crown caps. 2,664,137, Dec. 29.

Mahrt, Louis R., assignee, trustee : *See*—
Noodleman, Samuel, and Wise.

Maier, Curtis E., Riverside, H. E. Brockett, Lombard, and R. A. Larson, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Production of closure seals by partially curing, shaping, and completing the cure. 2,663,908, Dec. 29.

Maier, Curtis E., Riverside, H. E. Brockett, Lombard, and R. A. Larson, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Production of closure seals by partially curing a cushion material and thereafter shaping and completing the cure. 2,663,909, Dec. 29.

Maier, John A., Lincolnville, Kans. Adjustable wire stretching and setting implement. 2,664,117, Dec. 29.

Main, John R., assignee : *See*—
Cunningham, Marcus M.

Makruski, Edward E., Elyria, Ohio. Auto body repair fixture. 2,664,063, Dec. 29.

Mann, Carl P., Riverton, N. J., assignor to Selas Corporation of America, Philadelphia, Pa. Drier. 2,664,282, Dec. 29.

Mansfield, Ernest J., Lower Sydenham, London, assignor to W. Edwards & Co. (London) Limited, London, England. Cone and socket pipe joint with cooperating locking lug. 2,664,303, Dec. 29.

Mansfield, Judson H., and E. C. Swanson, assignors to Greenlee Bros. & Co., Rockford, Ill. Ratchet spiral screw driver. 2,664,126, Dec. 29.

Marchand, John F., New York, N. Y. Dialyzer. 2,664,395, Dec. 29.

Margon Corporation, assignee : *See*—
Lee, Joseph L.

Martin, John B., San Francisco, Calif. Ball mill with feed and discharge means at each opposite end. 2,664,248, Dec. 29.

Martin, Paul N., Penn Township, Allegheny County, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Alternating current railway track circuits employing gas-filled electron tubes. 2,664,498, Dec. 29.

Martin, Robert L., Whittier, assignor to Solar Manufacturing Corporation, Los Angeles, Calif. Capacitor coating machine. 2,664,066, Dec. 29.

Martin, Robert L., Whittier, assignor to Solar Manufacturing Corporation, Los Angeles, Calif. Capacitor coating machine. 2,664,067, Dec. 29.

Martin, William C. : *See*—
Schmidt, Otto W., and Martin.

Martin, William F., assignor of one-fourth to W. D. Burger, Amarillo, Tex., one-fourth to W. E. Warner, Hooker, Okla., and one-fourth to E. L. Morton, Stinnett, Tex. Artificial fishing bait. 2,663,964, Dec. 29.

Mathers, Frank C., Bloomington, Ind., and G. B. Lantz, Midvale, Utah, assignors to United States Smelting Refining and Mining Company, Portland, Maine. Electrolytic refining of lead. 2,664,393, Dec. 29.

Mathieson Chemical Corporation, assignee : *See*—
Kamlet, Jonas.
Lott, William A., Bernstein, and Heuser.
Ter Horst, William P., and Cline.

Mathis, Waddy T., Hamden, Conn. Magnetic game board. 2,663,967, Dec. 29.

Mattingly, Charles D., Wichita, Kans. Strap seal. 2,663,923, Dec. 29.

Mattinson, Donald H. : *See*—
Lombard, Adrian A., and Mattinson.

May, Otto H., Schwabisch Gmund, Germany. Drawing press. 2,664,191, Dec. 29.

Mayhew, Robert L., Great Neck, assignor to Hydrocarbon Research, Inc., New York, N. Y. Fluid reactor. 2,664,346, Dec. 29.

McAlister, J. G., Inc., assignee : *See*—
Rose, Jess C.

McCaughna, James R., San Jose, Calif. Treating fruit waste. 2,664,356, Dec. 29.

McDonald, B. F., Company, assignee : *See*—
Lewis, Howard B., and Field.

McGowen, Harold E., Jr. : *See*—
Howard, Kenneth C., McGowen, and Moore.

McGraw Electric Company, assignee : *See*—
Joublanc, Joseph C.

McIlwain, Knox, New York, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Pulse-code selective communication system. 2,664,561, Dec. 29.

McInerney, John A., assignor to Crane Co., Chicago, Ill. Jacketed pressure vessel. 2,664,098, Dec. 29.

McKeag, Alfred H., and P. W. Ranby, North Wembley, England, assignors to General Electric Company. Alkaline earth phosphate phosphors of the apatite type. 2,664,401, Dec. 29.

McKean, Jerome G., Bellaire, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Gun for perforating casing. 2,664,158, Dec. 29.

McKesson & Robbins, Incorporated, assignee : *See*—
Omohundro, Allen L., and Neumeier.

McNally, James A., U. S. Navy, Arlington, Va. Pneumatic suspension system. 2,664,257, Dec. 29.
Meeks, James W., Salinas, Calif. Collapsible back rest. 2,663,880, Dec. 29.
Mefina S. A., assignee: *See*—
Gaiser, Carl.
Hoenger, Guido.
Mehaffey, Robert J.: *See*—
Fox, Arthur L., and Mehaffey.
Meitzsch, Fritz: *See*—
Schmidt, Hans, Behnisch, and Mietzsch.
Meltzer, George B., assignor to Guide & Supply Co. Inc., New York, N. Y. Index member and adjustable indicator tab therefor. 2,664,089, Dec. 29.
Merrick, Charles C., Greenville, Tex. Earth cutting tool. 2,664,273, Dec. 29.
Merten, Bruce G.: *See*—
Cord, Howard O., Merten, and Klapheke.
Meth, Max, Atlantic City, N. J. Depositing copper. 2,664,363, Dec. 29.
Meyer, Edgar J., Buffalo, and J. L. Read, Snyder, N. Y., assignors to American Optical Company, Southbridge, Mass. Slit mechanism. 2,664,028, Dec. 29.
Meyer, Elsie: *See*—
Braunwalder, John, and Meyer.
Midgley, Eric L., assignor to Sylvania Electric Products Inc., Salem, Mass. Tube capping apparatus. 2,664,232, Dec. 29.
Miescher, Karl, Rhine, and J. Schmidlin, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Δ^4-17α-hydroxy-3,20-diketo-pregnen-21-als. 2,664,428, Dec. 29.
Milgrom, Hymen T.: *See*—
Heuboski, Walter J., and Milgrom.
Miller, Benjamin G., Santa Fe, N. Mex. Collapsible bucket. 2,664,131, Dec. 29.
Miller, Cornell M., Philadelphia, Pa., and R. L. Woodbury, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army. Body garment and cargo pocket therefor. 2,663,876, Dec. 29.
Miller, Enoch M., Bartlesville, Okla., assignor to Phillips Petroleum Company. Air conditioning control apparatus. 2,664,244, Dec. 29.
Miller, Frank G., Denville, N. J., assignor, by mesne assignments, to Diamond Crystal Salt Co., St. Clair, Mich. Salt composition. 2,664,357, Dec. 29.
Miller, Fred B., assignor to Goodman Manufacturing Company, Chicago, Ill. Gathering and loading machine. 2,664,185, Dec. 29.
Miller, John W.: *See*—
Knight, Elton G., and Miller.
Miller, Rosalie E., executrix: *See*—
Leverte, Robert J.
Miller, Samuel C., assignee: *See*—
Leverte, Robert J.
Miller, William T., Ithaca, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Pyrolysis of trifluorochloroethylene polymers. 2,664,449, Dec. 29.
Millman, Clinton, Greenville, Mich. Refrigerator cabinet. 2,663,916, Dec. 29.
Miner, W. H., Inc., assignee: *See*—
Anderson, Carl A.
Danielson, Vernon S., and Wallace.
Mulcahy, Harry W.
Minno-Life Corporation, assignee: *See*—
Sunday, James J.
Mira, Karl E., Rego Park, N. Y. Adjustable fillerless stretched pillows. 2,663,881, Dec. 29.
Misener, Richard E., J. W. Abbott, S. E. Clarke, and H. P. Woodruff, Vancouver, British Columbia, Canada. Cooking utensil splatter lid. 2,664,169, Dec. 29.
Moehring, William D., Charlotte, and L. V. Wells, Kalamazoo, assignors to Wilcox-Gay Corporation, Charlotte, Mich. Preamplifier. 2,664,469, Dec. 29.
Monarch Marking Machine Company, The, assignee: *See*—
Geiler, Frederick C.
Monsanto Chemical Company, assignee: *See*—
Darby, Joseph R., and Wells.
Ingram, Joseph R.
Park, Harold F.
Montchausse, André J., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Commutating mechanism for crossbar switches. 2,664,468, Dec. 29.
Montres Rolex S. A., assignee: *See*—
Huguenin, Marc.
Moody, Alvin S., assignee: *See*—
Cunningham, Marcus M.
Moore, Fred E., Los Angeles, Calif. Ball projector. 2,664,077, Dec. 29.
Moore, Howard H., Jr.: *See*—
Howard, Kenneth C., McGowen, and Moore.
Moore, Maher, Los Angeles, Calif. Locking mechanism for restraining movement of an operating member from a preestaablished position. 2,664,015, Dec. 29.
Moos, Anthony M., Hillsdale, N. J., assignor to Patterson, Moos & Company, Inc., Long Island City, N. Y. Dosimeter. 2,664,511, Dec. 29.
Morun, William O., Tulsa, Okla. Flash arrester for draft intake of furnace fireboxes. 2,664,081, Dec. 29.
Mor-Film Company, assignee: *See*—
Kluender, Arnold F.
Morgan, Donald C., Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Metallic heat shield for incandescent lamps. 2,664,513, Dec. 29.
Morris, Rupert C., Berkeley, and G. W. Conklin, Oakland, assignors to Shell Development Company, Emeryville, Calif. Monomers and polymers of unsaturated thioethers. 2,664,414, Dec. 29.
Morrison, Ralph P., Callaway, Nebr. Vacuum corn husking unit. 2,664,090, Dec. 29.
Morton, E. L., assignee: *See*—
Martin, William F.
Mosser, James K., Springfield, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Deicing apparatus. 2,663,993, Dec. 29.
Motor Products Corporation, assignee: *See*—
Mues, Harold S.
Thomson, Robert W.
Motorola, Inc, assignee: *See*—
Doremus, John A., and Waterman.
Parker, Norman W.
Race, William J.
Schlesinger, Kurt.
Mouton, René-Jacques F. D. R., Uccle, assignor to Soudometal Societe Anonyme, Forest-lez-Bruxelles, Belgium. Arc welding electrode. 2,664,488, Dec. 29.
Mueller Co., assignee: *See*—
Mueller, Frank H., and Smith.
Mueller, Frank H., and J. J. Smith, assignors to Mueller Co., Decatur, Ill. Stopper for large pipe lines. 2,664,262, Dec. 29.
Mueller, Wesley J., and I. R. Smith, assignors to Sterling Wheelbarrow Company, Milwaukee, Wis. Dump cart. 2,664,310, Dec. 29.
Mues, Harold S., assignor to Motor Products Corporation, Detroit, Mich. Filing equipment for identification badges. 2,664,195, Dec. 29.
Mugford, Ronald, Hartford, Conn. Snap-on split nut. 2,664,023, Dec. 29.
Mulcahy, Harry W., assignor to W. H. Miner, Inc., Chicago, Ill. Combined spring and friction shock absorbing mechanism. 2,664,288, Dec. 29.
Mund, Arthur: *See*—
Forman, Sol, Ramer and Mund.
Munden, Allck R.: *See*—
Aickin, Robert G., and Munden.
Mural, Frank, Drexel Hill, Pa., assignor to Radio Corporation of America. Simplified electrically steerable antenna. 2,664,507, Dec. 29.
Murdock, Joseph K., Cincinnati, and E. Le Roy, St. Bernard, Ohio, and H. F. Oswald, Dayton, Ky., assignors to The Murdock Mfg. & Supply Company, Cincinnati, Ohio. Water service fixture. 2,664,096, Dec. 29.
Murdock Mfg. & Supply Company, The, assignee: *See*—
Murdock, Joseph K., Le Roy and Oswald.
Muros, Joseph, Newtonville, Mass., assignor to The Gillette Company. Blade dispensing package. 2,664,192, Dec. 29
Murray, Alan E., New York, N. Y. Making shoes. 2,663,887, Dec. 29.
Muse, Kenneth L., Hagerstown, Md., assignor to Westinghouse Air Brake Company. Apparatus for controlling highway crossing signals. 2,664,499, Dec. 29.
Muskegon Piston Ring Company, assignee: *See*—
Hamm, Douglas W.
Musselman, Elvin M., Lancaster, Pa. Baby walker with removable sling. 2,664,141, Dec. 29.
Nakasone, Robert T., Chicago, assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Motor control circuit. 2,664,531, Dec. 29.
National Machinery Company, The, assignee: *See*—
Friedman, John H.
National Research Development Corporation, The, assignee: *See*—
Thomas, David G. A., and Cooke-Yarborough.
National Tank Company, assignee: *See*—
Walker Jay P., and Glasgow.
Nelson, Carroll H., Cedar Rapids, Iowa. Stock waterer. 2,664,070, Dec. 29.
Neugebauer, Franz J.: *See*—
Brisken, Walter R., and Neugebauer.
Neumeier, Franz M.: *See*—
Omohundro, Allen L., and Neumeier.
New Holland Machine Division of the Sperry Corporation, The, assignee: *See*—
Collins, Avery B.
Newsome, William P., Sedley, Va. Ignition timing device. 2,664,012, Dec. 29.
New York Air Brake Compaany, The, assignee: *See*—
Huber, Matthew W.
Nicolson, Garth F.: *See*—
Hertel, Richard K., and Nicolson.
Nittskoff, William, assignee: *See*—
Norwich, Adam T.
Nixon, Leslie R., New Eltham, London, assignor to J. Stone & Company Limited, London, England. Power transmission gearing for the running axle of vehicles. 2,664,003, Dec. 29.
Noble, Wiley B., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 2,664,321, Dec. 29.

Nolcken, Woldemar G., Headington, Oxford, assignor to Pressed Steel Company Limited, Cowley, Oxford, England. Control valve for fluid systems. 2,663,998, Dec. 29.
Noodleman, Samuel, aand A. G. Wise, assignors to L. R. Mahrt and D. R. Laughter, as trustees, for Standard Dayton Corporation, Dayton, Ohio. Variable speed alternating current motor. 2,664,534, Dec. 29.
Noon, T Cyril, Bainbridge Township, Geauga County, assignor to Thompson Products, Inc., Cleveland, Ohio. Flow controlling apparatus. 2,664,110, Dec. 29.
Nordblom, George F., Philadelphia, Pa., and M. S. Silverstein, Camden, N. J. Stabilizing red phosphorus against oxidation. 2,664,344, Dec. 29.
Normand, Wilfrid, assignor to J. W. Lajeunesse, New Bedford, Mass. Fire alarm switch. 2,664,484, Dec. 29.
Northern Electric Company, Limited, assignee: *See*—
Colpitts, Harry C.
Northrop Aircraft, Inc., assignee: *See*—
Parker, Warde L.
Norwich, Adam T., assignor of one-half to W. Nittskoff, Cleveland, Ohio. Exercising device. 2,664,289, Dec. 29.
Nusshold, Hugo, Buenos Aires, Argentina. Sawing machine. 2,663,927, Dec. 29.
Oak Manufacturing Company, Inc., assignee: *See*—
Probasco, Harold T.
Oakes, E. T. Corporation, The, assignee: *See*—
Oakes, Earle T.
Oakes, Earle T., Douglaston, assignor to The E. T. Oakes Corporation, Islip, N. Y. Apparatus for depositing marshmallow, dough, batters and the like. 2,664,055, Dec. 29.
Oberman, Roelof M. M., The Hague, Netherlands. Automatic switching means for use in telegraph systems and the like. 2,664,459, Dec. 29.
O'Connor, Ward J., F. and F. A. Rowen, Jr., Bayonne, N. J., assignors to The Lummus Company, New York, N. Y. Heater control. 2,664,245, Dec. 29.
O'Dell, George: *See*—
Simpson, John, Jr., and O'Dell.
Oden, Lewis M., Sr., Norfolk, Va. Spark plug gapping machine. 2,664,135, Dec. 29.
Ohio Boxboard Company, The, assignee: *See*—
Chaplin, Charles L., Ellsworth, and Hickin.
O'Keefe, John B., Chicago, and C. M. Igoe, Crystal Lake, Ill. Supporting structure. 2,664,147, Dec. 29.
Oliverio, John J., Clarksburg, W. Va. Antisweat flush tank. 2,664,100, Dec. 29.
Omohundro, Allen L., Wilton, and F. M. Neumeier, Fairfield, assignors to McKesson & Robbins, Incorporated, Bridgeport, Conn. Parasiticidal lotion. 2,664,381, Dec. 29.
Omohundro, Allen L., Wilton, and F. M. Neumeier, Fairfield, assignors to McKesson & Robbins, Incorporated, Bridgeport, Conn. Parasiticidal lotions. 2,664,382, Dec. 29.
Ono, Tsurukichi, Fukushima-Ken, Japan. Fuel injection apparatus for injection engines. 2,664,313, Dec. 29.
Oregon Saw Chain Corporation, assignee: *See*—
Cox, Joseph B.
Osgood, Walter P., Malden, assignor to Boston Machine Works Company, Lynn, Mass. Cementing machine for thin flexible sheet material. 2,664,068, Dec. 29.
O'Shei, William E., London, England. Suction motor. 2,664,074, Dec. 29.
Östergren, Gustaf, assignor to Aktiebolaget Jonkopings Motorfabrik, Jonkoping, Sweden. Propeller pitch change mechanism. 2,661,167, Dec. 29.
Oswald, Harold F.: *See*—
Murdock, Josenh K., Le Roy, and Oswald.
Owen, James R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Dehydrogenation. 2,664,451, Dec. 29.
Owens-Corning Fiberglas Corporation, assignee: *See*—
Armstrong, Marshall C.
Butterfield, Charles E.
Dingledy, David P.
Phillipps, Thomas E.
Slayter, Games.
Slayter, Games, and Fletcher.
Stalego, Charles J.
Owens, Harry S., J. B. Stark, and A. E. Goodban, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Separation of organic acids. 2,664,441, Dec. 29.
Pace, Walter E., assignee: *See*—
Trace, Keith B.
Page, Robert M., Camp Springs, Md. Oscillograph sweep system. 2,664,522, Dec. 29.
Palazzolo, Vincent, St. Louis, Mo. Automatic individual butter server. 2,663,932, Dec. 29.
Palmgren, Per G., Philadelphia, and J. L. Bruses, Cheltenham, assignors to SKF Industries, Inc., Philadelphia, Pa. Multirow cylindrical roller bearing with removable inner assembly. 2,664,324, Dec. 29.
Park, Harold F., East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Vinyl halide polymerization with cyclic catalyst. 2,664,416, Dec. 29.
Parker, Earl E., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheney County, Pa. Preventing premature polymerization of resinifiable mixtures with oxalic acid. 2,664,413, Dec. 29.
Parker, Norman W., Park Forest, assignor to Motorola, Inc., Chicago, Ill. Synchronization system. 2,664,463, Dec. 29.
Parker, Warde L., Los Angeles, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Rotating spool servo valve. 2,664,097, Dec. 29.
Passino, Herbert J., Englewood, assignor to The M. W. Kellogg Company, Jersey City, N. J. Stabilizing soybean oil refined by solvent treatment. 2,664,431, Dec. 29.
Patterson, Moos & Company, Inc., assignee: *See*—
Moos, Anthony M.
Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. One-way clutch. 2,664,183, Dec. 29.
Pearl, Harry A., Dayton, Ohio, and M. A. Rudner, Camden, N. J. Thermal relay and constant gap spacer. 2,664,481, Dec. 29.
Pennell, Elmer V.: *See*—
Creveling, Catherine B., and Pennell.
Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
Blackburn, Newell F.
Plump, Ralph E., and Carroll.
Percy, La Vern A., Kalamazoo, Mich. Floor treatment implement with vacuum cleaning mechanism. 2,663,893, Dec. 29.
Peretti, Leonard G., Chicago, Ill. Draftsman's triangle having a parallel line spacer. 2,663,939, Dec. 29.
Perrelli, Joseph, Richmond, Calif., assignor to Filper Corporation. Peach pitter. 2,664,127, Dec. 29.
Peters, Leo R., Cleveland Heights, Ohio, assignor to General Electric Company. Quartz-to-metal seal. 2,664,180, Dec. 29.
Peterson Development Corporation, assignee: *See*—
Peterson, Gerald D.
Peterson, Gerald D., assignor to Peterson Development Corporation, Detroit, Mich. Window structure. 2,663,917, Dec. 29.
Peterson, Robert E., assignor to Repeter Producta, Inc., New York, N. Y. Lighter. 2,664,007, Dec. 29.
Petit, Jean F. G., Paris, assignor to Societe d'Exploitation de Brevets, Boulogne-sur-Seine, France. Dynamoelectric machine. 2,664,539, Dec. 29.
Petri, Hector D., Framingham, assigner to United-Carr Fastener Corporation, Cambridge, Mass. Bushing. 2,663,895, Dec. 29.
Petterson, Harold F., Redwood City, Calif. Helical runway ball game. 2,664,291, Dec. 29.
Pevere, Ernest F., Beacon, G. B. Arnold, Glenham, and H. V. Hess, Beacon, assignors to The Texas Company, New York, N. Y. Carbonization of coal. 2,664,390, Dec. 29.
Pfister, William T., Los Angeles, Calif. Vacuo-pneumatic apparatus for separating vegetables, fruits, and/or other bodies. 2,664,197, Dec. 29.
Phelps Dodge Corporation, assignee: *See*—
Barker, Lyle M., and Young.
Philco Corporation, assignee: *See*—
Ishler, Harry K.
Philipps, Thomas E., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Mineral fiber mat and making same. 2,664,376, Dec. 29.
Phillips Petroleum Company, assignee: *See*—
Benedict, Bruce C.
Bonilla, Charles F.
Cromeans, John S.
Hudson, Thomas B.
Hutchinson, William M.
Miller, Enoch M.
Owen, James R.
Reeves, William B.
Rehrig, Alexander R.
Vesper, Daniel M., and Edwards.
Pine, William S., Los Angeles, Calif. Hydraulic jack. 2,664,073, Dec. 29.
Pioneer Sand and Gravel Company, assignee: *See*—
Ausland, Le Roy J.
Piper, Eugene E., assignee: *See*—
Walker, Ronald W.
Piros, John J., Homewood, assignor, by mesne assignments, to Sinclair Research Laboratories Inc., Harvey, Ill. Fluid flow control. 2,664,111, Dec. 29.
Pittsburgh Plate Glass Company, assignee: *See*—
Parker, Earl E.
Plump, Ralph E., Pittsfield, Mass., and J. W. Carroll, Lafayette Hill, assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Urea and/or thiourea-aldehyde-sulfite waste liquor condensation product. 2,664,408, Dec. 29.
Pokorny, Frank J., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Blow-on contact structure. 2,664,479, Dec. 29.
Poling, Kenneth W., assignee: *See*—
Shelby, Donald E.
Pollock, Edward W., Kingfisher, Okla. Ventilating metal awning. 2,663,918, Dec. 29.
Prance, Stanley R.: *See*—
Waag, Harry O., and Prance.
Pravda, Milton F.: *See*—
Swenson, Paul F., and Pravda.
Precision Thermometer and Instrument Company, assignee: *See*—
Boonshaft, Julius C.

Prenosil, Joseph F., Sr., Moorhead, Minn. Manually operated boat propelling mechanism. 2,664,064, Dec. 29.

Pressed Steel Company Limited, assignee: *See*—
Nolcken, Woldemar G.

Price, Ralph E., Highfield, Md., and H. E. Balsiger, assignors to Landis Tool Company, Waynesboro, Pa. Rotary fluid motor transmission system. 2,663,995, Dec. 29.

Probasco, Harold T., Inglewood, assignor to Oak Manufacturing Company, Inc., Los Angeles, Calif. Vending machine. 2,664,227, Dec. 29.

Proctor Electric Company, assignee: *See*—
Hortman, Harvey E., Jr.

Prowinsky, Joseph H., Washington, D. C. Tire for bomb trucks. 2,664,296, Dec. 29.

Pure Oil Company, The, assignee: *See*—
Bond, Donad C.

Puschhof, Siegfried: *See*—
Feichtinger, Hans, and Puschhof.

Putney, David H., assignor to Stratford Engineering Corporation, Kansas City, Mo. Alkylation utilizing evaporative cooling. 2,664,452, Dec. 29.

Queneau, Augustin L. J., Morristown, N. J. Apparatus for electromagnetic separation of wet ores. 2,664,200, Dec. 29.

Raab, Herman P., Indianapolis, Ind., assignor to Radio Corporation of America. Electronic motor control circuit. 2,664,533, Dec. 29.

Race, William J., Franklin Park, assignor to Motorola, Inc., Chicago, Ill. Antenna for vehicle mounting. 2,664,506, Dec. 29.

Radeloff, Sidney P., and R. J. Falcone, Philadelphia, Pa. Measuring-type pour-spout. 2,664,228, Dec. 29.

Radio Corporation of America, assignee: *See*—
Bedford, Alda V., and Sziklai.
Goodale, Elmer D.
Mural, Frank.
Raab, Herman P.
Russo, John S.
Spradlin, Joe D., and Himelfarb.
Stelmak, John P.
Trevor, Bertram.

Raitiere, Louis P., Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated. Modified Schmidt-type optical system. 2,664,027, Dec. 29.

Ramer, Leonard: *See*—
Forman, Sol, Ramer, and Mund.

Ranby, Peter W.: *See*—
McKeag, Alfred H., and Ranby.

Randall, David I., Easton, Pa., and E. E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Water-soluble α-arylaminoanthraquinone derivatives. 2,664,427, Dec. 29.

Rapata, George M., assignor to Illinois Tool Works, Chicago, Ill. Strain-relief grommet. 2,664,458, Dec. 29.

Rathman, Gilbert, Union, N. J., assignor, by mesne assignments, to Dresser Industries, Inc. Automatically balanced rotor assembly. 2,664,304, Dec. 29.

Ray, William A., North Hollywood, assignor to General Controls Co., Glendale, Calif. Handle connection for plug valves. 2,664,103, Dec. 29.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Automatic valve operating in response to temperature changes. 2,664,246, Dec. 29.

Ray, William A., North Hollywood, Calif. assignor to General Controls Co. Hydraulically balanced gate valve structure. 2,664,267, Dec. 29.

Raybestos-Manhattan, Inc., assignee: *See*—
Glynn, Thomas, and Cleever.

Raytheon Manufacturing Company, assignee: *See*—
Beveridge, Harold N.

Read, James L.: *See*—
Meyer, Edgar J., and Read.

Rechler, Morton D., assignor to Rexart Metal Industries, Inc., New York, N. Y. Chair with detachable footrest. 2,664,148, Dec. 29.

Rector, L. L., assignee: *See*—
Schnitter, Sylvester B.

Reed, Flood E., Jr., Belmont, assignor to Arthur D. Little, Inc., Cambridge, Mass. Adjustable electromagnet and cooling means therefor. 2,664,527, Dec. 29.

Reed Roller Bit Company, assignee: *See*—
Boice, Elvin G.
Noble, Wiley B.

Reese, John E.: *See*—
Lorand, Eugene J., and Reese.

Reeves, William B., Wood River, Ill., assignor to Phillips Petroleum Company. Electrochemical conversion of hydrocarbons. 2,664,394, Dec. 29.

Rehrig, Alexander R., Phillips, Tex., assignor to Phillips Petroleum Company. Catalyst chamber collector system. 2,664,347, Dec. 29.

Reiches, Sol L., Cleveland, and D. P. Ingle, assignors to All Star Products, Inc., Defiance, Ohio. Magnetic focusing mechanism. 2,664,514, Dec. 29.

Reilly, John H., assignor to The Dow Chemical Company, Midland, Mich. Lining rigid pipe with elastic thermoplastics. 2,664,373, Dec. 29.

Reinish, Martin D., Brooklyn, and J. P. Caldarera, Flushing, N. Y., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Fatty acid treatment. 2,664,430, Dec. 29.

Renfrew, Edgar E.: *See*—
Randall, David I., and Renfrew.

Repeter Products, Inc., assignee: *See*—
Peterson, Robert E.

Republic Aviation Corporation, assignee: *See*—
Unterman, Manuel.

Republic Steel Corporation, assignee: *See*—
Darner, Frederic M., and Walters.

Rex, Walter A., Westfield, and H. H. Vickers, Union, N. J., assignors to Standard Oil Development Company. Process and apparatus for the distillation of solids. 2,664,389, Dec. 29.

Rexart Metal Industries, Inc., assignee: *See*—
Rechler, Morton D.

Reynolds, Frank L., Stratford, assignor of one-half to F. W. Wyatt, Bridgeport, Conn. Composite molded ornamental light fixture. 2,664,497, Dec. 29.

Reynolds Metals Company, assignee: *See*—
Hammond, Gordon.

Rheo-France Compagnie Internationale des Rheolaveurs A. France, societe anonyme, assignee: *See*—
France, Antoine.

Rhodes, Charles J., Wakefield, England. Deep-drawing of sheet metal. 2,664,061, Dec. 29.

Rhodes, Herbert C., Portland, Oreg. Conveying device. 2,664,188, Dec. 29.

Rich, Alfred R., assignee: *See*—
Sierer, Payson, and Waterbury.

Richardson, Sid W., Inc., assignee: *See*—
Howard, Kenneth C., McGowen, and Moore.

Richardson, William F., assignor to Flex-O-Laters, Inc., Carthage, Mo. Edge roll for spring cushion assemblies. 2,663,882, Dec. 29.

Richman, Donald, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Wide-band direct-current repeater. 2,664,471, Dec. 29.

Riley, Frank R., assignor to American Cyanamid Company, New York, N. Y. Ion exchange treatment of solutions containing cyanohydrins. 2,664,396, Dec. 29.

Ritter, Audrey, assignee: *See*—
Sierer, Payson, and Waterbury.

Roberts, Shepard, Cambridge, Mass. Ultrahigh-frequency mixer. 2,664,502, Dec. 29.

Rocky Mountain Drilling Company, assignee: *See*—
Whipple, Louis A., Jr.

Roger, Albert J., San Leandro, Calif. Towel rack. 2,664,210, Dec. 29.

Rolls-Royce Limited, assignee: *See*—
Davies, Kenneth R., and Herbstritt.
Lombard, Adrian A., and Mattinson.
Viale, Spirito M.

Ronzone, David B., Wilmington, Del. Interlocking shingle. 2,664,056, Dec. 29.

Rorig, Kurt, assignor to G. D. Searle & Co., Chicago, Ill. 4-(cyclopentanopolylhydrophenanthr-17-yl) imidazoles and derivatives thereof. 2,664,423, Dec. 29.

Roschke, Erwin M., Broadview, Ill., assignor to Zenith Radio Corporation. Subscription type television system. 2,664,460, Dec. 29.

Rose, Jess C., North Hollywood, assignor to J. G. McAlister, Inc., Hollywood, Calif. Hanger. 2,664,259, Dec. 29.

Roselius, Louis W., Lake Success, assignor to S. & S. Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Slitting, scoring, and folding machine. 2,664,035, Dec. 29.

Rosen, Louis, Daytona Beach, Fla. Fishing plug. 2,663,965, Dec. 29.

Rosensteel, Robert M.: *See*—
Baker, Warwick R., and Rosensteel.

Rosenthal-Porzellan A. G., assignee: *See*—
Koch, Otto.

Rotko, Peter, Jr., assignee: *See*—
Sierer, Payson, and Waterbury.

Rowen, Frank A., Jr.: *See*—
O'Connor, Ward J. F., and Rowen.

Rubin, Frank L.: *See*—
Worn, George A., and Rubin.

Rudner, Merritt A.: *See*—
Pearl, Harry A., and Rudner.

Rudolph, Hans, Kansas City, Mo. Instrument for measuring inside dimensions. 2,663,942, Dec. 29.

Ruhrchemie Aktiengesellschaft, assignee: *See*—
Feichtinger, Hans, and Puschhof.

Rullo, Gabriel N., Astoria, assignor to S. & S. Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Inking mechanism for printer slotter-multicolor rolls. 2,664,045, Dec. 29.

Rumbaugh, Walter R., Lima, assignor to The Standard Oil Company, Cleveland, Ohio. Piston rod stuffing-box gauge. 2,663,944, Dec. 29.

Russell, John K., North Hollywood, Calif. Universal leader connection for lures. 2,663,963, Dec. 29.

Russo, John S., Philadelphia, Pa., assignor to Radio Corporation of America. Frequency multiplier circuit. 2,664,510, Dec. 29.

Russo, Vincent J., and J. F. Les Veaux, Middleport, N. Y., assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Bentonite sulfur. 2,664,379, Dec. 29.

Ryan, George R., Waukegan, assignor to Abbott Laboratories, North Chicago, Ill. Venoclysis equipment. 2,664,085, Dec. 29.

SKF Industries, Inc., assignee: *See*—
Palmgren, Per G., and Brusca.

S. & S. Corrugated Paper Machinery Co., Inc., assignee: *See*—
Roselius, Louis W.
Rullo, Gabriel N.

Sablé, André, Marseille, assignor to Societe d'Electro Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine, Paris, France. Precipitating solid particles from a suspension of the particles in a liquor. 2,664,349, Dec. 29.

Sachsse, Hans, Kelheim, Danube, T. Kosbahn, Heidelberg-Rohrbach, and E. Lehrer, Bad Duerkheim, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany. Production of acetylene by incomplete combustion of hydrocarbons. 2,664,450, Dec. 29.

St. Germain, Agenor E., Haverhill, Mass. Apparatus for shoe manufacture. 2,663,884, Dec 29.

Sanford, Roy S., Oakville, Conn. Paper container. 2,663,981, Dec. 29.

Sanford, Roy S., Oakville, Conn., assignor, by mesne assignments, of one-half to Ex-Cell-O Corporation, Detroit, Mich., and one-half to a group comprising A. C. Fessenden, and Ace Carton Corporation, Chicago, Ill. Paper container. 2,664,237, Dec. 29.

Sargrove Electronics Limited, assignee: *See*—
Sargrove, John A.

Sargrove, John A., Shepperton-on-Thames, assignor to Sargrove Electronics Limited, London, England. Weight deviation testing device. 2,664,557, Dec. 29.

Saunders, William P., and F. P. Strieter, assignors to The Dow Chemical Company, Midland, Mich. Master alloy comprising zirconium and magnesium for use in making magnesium-base alloys containing zirconium. 2,664,353, Dec. 29.

Sauter, John D.: *See*—
Few, William, and Sauter.

Saxe, Walter E., Pasadena, assignor to The Conveyor Company, Inc., Los Angeles, Calif. Automatic dispensing, weighing, and recording apparatus. 2,664,260, Dec. 29.

Schaefer, Albert W., Los Angeles, Calif. Edging roller. 2,663,892, Dec. 29.

Schenley Industries, Inc., assignee: *See*—
Schmidt, Hans, Behnisch, and Mietzsch.

Scheuerman, Albert, Sutter, and O. L. Smith, Carthage, Ill. Bathtub chair. 2,664,142, Dec. 29.

Schlatter, Carl, Wilmington, Del., J. B. Eisen, Springfield, and G. D. Jefferson, Kennett Square, Pa. Coated articles and textiles and emulsions for producing them. 2,663,989, Dec. 29.

Schlecht, Robert H. E., Affton, Mo. Punching apparatus for sheet or strip material. 2,664,161, Dec. 29.

Schlesinger, Kurt, Maywood, assignor to Motorola, Inc., Chicago, Ill. Deflection circuits. 2,664,521, Dec. 29.

Schmidlin, Julius: *See*—
Miescher, Karl, and Schmidlin.

Schmidt, Hans, Wuppertal-Vohwinkel, R. Behnisch, and F. Mietzsch, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Substituted monothiosemicarbazones of diformylbenzenes. 2,664,425, Dec. 29.

Schmidt, Lloyd K., assignor of one-half to A. M. Jongeneel, Walnut Grove, Calif. Portable ditch pump. 2,664,052, Dec. 29.

Schmidt, Otto W., Kansas City, Kans., and W. C. Martin, Wooster, Ohio. Drainage tube. 2,663,997, Dec. 29.

Schmidt, Thur, Chicago, Ill. Storage and utility box. 2,664,219, Dec. 29.

Schnitter, Sylvester B., Dallas, assignor to L. L. Rector, Tarrant County, Tex. Well cementing apparatus. 2,664,163, Dec. 29.

Schulz, August: *See*—
Hornberger, Clarence L., and Schulz.

Schupp, Alfred, San Antonio, Tex. Pencil vending machine. 2,664,330, Dec. 29.

Schymik, Walter H., Oreland, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Hinged bus enclosure. 2,664,456, Dec. 29.

Scordamaglia, Jack, assignee: *See*—
Cerracchio, Enrico.

Scordley, Jack, assignee: *See*—
Cerracchio, Enrico.

Scordley, Vincent J., assignee: *See*—
Cerracchio, Enrico.

Scotts Engineering (Newport) Limited, assignee: *See*—
Burdin, Nelson V.

Scully, Lawrence J., Bridgeport, Conn. Device for measuring pitch diameter of screws, bolts, and the like. 2,663,948, Dec. 29.

Searle, G. D., & Co., assignee: *See*—
Rorig, Kurt.

Se Bastian, Ford, Elmhurst, Ill., assignor, by mesne assignments, to The Silex Company, Hartford, Conn. Adjustable fan with guard. 2,664,242, Dec. 29.

Sedgwick, Kenneth G.: *See*—
Goudy, Paul R., and Sedgwick.

Seeger Refrigerator Company, assignee: *See*—
Aising, Carl F.

Seifried, Paul E.: *See*—
Konet, Henry, and Seifried.

Selas Corporation of America, assignee: *See*—
Hess, Frederic O., and Kniveton.
Mann, Carl P.

Seltzer, Robert E., assignor, by mesne assignments, to Spred-All, Inc., Bellevue, Ohio. Lid construction for material spreaders. 2,664,221, Dec. 29.

Seranne, Henri: *See*—
Gerard, Paul, and Seranne.

Sessions Clock Company, The, assignee: *See*—
Bradley, Caron.

Sharp, Ewing L., Beverly Hills, Calif. Container and spool for leader lines and the like. 2,664,194, Dec. 29.

Shelby, Donald E., assignor of fifty per cent to K. W. Poling, Flint, Mich. Folding trailer drum rack. 2,664,298, Dec. 29.

Shell Development Company, assignee: *See*—
Aickin, Robert G., and Munden.
Johnson, Ava J.
Morris, Rupert C., and Conklin.

Shellman, Norman C., Wilmette, Ill. Paper storage and manifolding device. 2,664,205, Dec. 29.

Sichak, William, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Antenna. 2,664,50b, Dec. 29.

Sierchio, Gerardo, Pequannock, N. J. Sanding block. 2,663,979, Dec. 29.

Sierer, Payson, Ozone Park, and N. J. Waterbury, New York, assignors of thirty-five per cent to said Waterbury, twenty per cent to P. Rotko, Jr., Yonkers, fifteen per cent to H. E. Fisher, five per cent to A. R. Rich, New York, N. Y., five per cent to G. H. Huiln, Durham, N. C., five per cent to K. Kling, New York, five per cent to A. Ritter, Richmond Hill, five per cent to R. Winkler, Brooklyn, and five per cent to G. D. Campbell, New York, N. Y. Visualized race track gate circuit. 2,664,559, Dec. 29.

Silex Company, The, assignee: *See*—
Se Bastian, Ford.

Silon, Melvin, assignee: *See*—
Lepkowski, Thomas W.

Silver, Robert H., Schroeder, Minn. Dual choker hook. 2,663,922, Dec. 29.

Silverstein, Martin: *See*—
Nordblom, George F., and Silverstein.

Silverstein, Martin S., Camden, N. J. Stabilizing red phosphorus against oxidation. 2,664,343, Dec. 29.

Simpson, John, assignee: *See*—
Simpson, John, Jr.
Simpson, John, Jr., and O'Dell.

Simpson, John, Jr., assignor to J. Simpson, and J. Simpson, Jr., Luton, England. Garment and like press. 2,663,955, Dec. 29.

Simpson, John, Jr., and G. O'Dell, Luton, England, said O'Dell assignor to J. Simpson, Luton, England. Garment press with a single manual control. 2,663,956, Dec. 29.

Sinclair Research Laboratories Inc., assignee: *See*—
Piros, John J.

Slaughter, Charles E., New Canaan, Conn., assignor to Extruded Plastics, Inc. Extrusion of thermoplastics. 2,663,904, Dec. 29.

Slayter, Games, and Ed Fletcher, Newark, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Apparatus for fabricating strands, cords, tubes, and the like. 2,664,138, Dec. 29.

Slayter, Games, and Ed Fletcher, Newark, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Fabricating strands, cords, tubes, and the like. 2,664,374, Dec. 29.

Slayter, Games, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Producing an open mesh fabric of glass fibers. 2,664,375, Dec. 29.

Smith, Frank W., Chicago, Ill. Refrigerating apparatus for transportation devices. 2,664,000, Dec. 29.

Smith, Irving R.: *See*—
Mueller, Wesley J., and Smith.

Smith, John J.: *See*—
Mueller, Frank H., and Smith.

Smith, Lincoln G., Center Moriches, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Magnetic electron multiplier. 2,664,515, Dec. 29.

Smith, Olen L.: *See*—
Scheuerman, Albert, and Smith.

Smith, Russell M., Ripley, N. Y., and M. W. Bellis, Lawrence Park, Erie, Pa., assignors to General Electric Company. Interpole shunting means for alternating current commutating motors. 2,664,535, Dec. 29.

Snell, Chester A., New York, J. M. Fain, and J. A. De Rosa, Brooklyn, N. Y., assignors to the United States of America as represented by the Secretary of the Army. Soldering flux. 2,664,370, Dec. 29.

Snell, Chester A., New York, J. M. Fain, and J. A. De Rosa, Brooklyn, N. Y., assignors to the United States of America as represented by the Secretary of the Army. Soldering flux. 2,664,371, Dec. 29.

Snow-Master, Inc., assignee: *See*—
Botnick, Irlin.

Societe d'Electro Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine, assignee: *See*—
Sablé, André.

Societe d'Exploitation de Brevets, assignee: *See*—
Petit, Jean F. G.

Societe pour l'Exploitation de Procedes de Fabrication de Produits Electro-Chimiques et Electro-Metallurgiques Industriels, assignee: *See*—
Fabaron, Paul F.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Winterhalter, James S.
Solar Aircraft Company, assignee: *See*—
Bentsen, William J.
Solar Manufacturing Corporation, assignee: *See*—
Martin, Robert L.
Solomon, Ernest: *See*—
Burton, William P., and Solomon.
Sontheimer, Carl G., Riverside, Conn., assignor to The Liquidometer Corporation, Long Island City, N. Y. Frequency-sensitive apparatus for indicating the magnitude of a condition and limit indication means therefor. 2,664,556, Dec. 29.
Sorensen & Company, Inc., assignee: *See*—
Bunblasky, Adolph.
Soudometal Societe Anonyme, assignee: *See*—
Mouton, René-Jacques F. D. R.
Spenkman, Raymond H., Wheathampstead, assignor to Imperial Chemical Industries Limited, Millbank, England. Apparatus for cutting artificial filaments into short lengths. 2,664,160, Dec. 29.
Spearman, Carl L., Westminster, assignor of one-half to A. Brown, Walhalla, S. C. Bush saw attachment for tractors. 2,664,119, Dec. 29.
Speed Queen Corporation, assignee: *See*—
Thiele, Berthold R.
Speed, William C., Riverside, and J. J. Dwyer, Stamford, Conn., assignors to Audio Devices, Inc., New York, N. Y. Production of magnetic sound tape. 2,664,139, Dec. 29.
Spencer, Harry H., Springfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Current supply apparatus. 2,664,538, Dec. 29.
Spengler, Ralph A., Cleveland, Ohio. Pilot operated time controlled gate valve. 2,664,107, Dec. 29.
Sperry Corporation, The, assignee: *See*—
Hendrickson, Harold S.
Lyman, Joseph, and Litchford.
Spradlin, Joe D., Mount Ephraim, N. J., and F. Himelfarb, Brooklyn, N. Y., assignors to Radio Corporation of America. Electromagnetic deflection generator. 2,664,523, Dec. 29.
Spragins, John H., North Wales, Pa. Dishwasher. 2,664,094, Dec. 29.
Spred-Alt, Inc., assignee: *See*—
Seltzer, Robert E.
Square D Company, assignee: *See*—
Goudy, Paul R., and Sedgwick.
Stadler, Albert, assignor to Eclipse Fuel Engineering Co., Rockford, Ill. Gas cock. 2,664,263, Dec. 29.
Stadler, Hurter & Company, assignee: *See*—
Hurter, Alfred T.
Stalego, Charles J., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Method and apparatus for producing fibers. 2,663,903, Dec. 29.
Stalker, Edward A., Bay City, Mich. Rotary hydraulic torque converter. 2,663,996, Dec. 29.
Standard Dayton Corporation, assignee: *See*—
Noodleman, Samuel, and Wise.
Standard Gage Company, Inc., assignee: *See*—
Emery, Alfred H.
Standard Oil Company, assignee: *See*—
Cord, Howard O., Merten, and Klapheke.
Wolff, William F., and Johnson.
Standard Oil Company, The, assignee: *See*—
Bartleson, John D.
Rumbaugh, Walter R.
Standard Oil Development Company, assignee: *See*—
Abendroth, Guss F.
Allen, Thomas O.
Blatz, Leo J., and Brandon.
Heinrich, Raymond L.
Lynn, Ralph D.
McKean, Jerome G.
Rex, Walter A., and Vickers.
Stark, John B.: *See*—
Owens, Harry S., Stark, and Goodban.
Staude, E. G., Manufacturing Company, Inc., assignee: *See*—
Fischer, Paul E.
Stein, Hall & Company, Inc., assignee: *See*—
La Piana, Fred G., and Houth.
Stelmak, John P., Forest Hills, N. Y., assignor to Radio Corporation of America. Vacuum-enclosed semiconductor device. 2,664,528, Dec. 29.
Stephany, Albert R., Newport, Ky. Silent valve. 2,664,261, Dec. 29.
Sterling Wheelbarrow Company, assignee: *See*—
Mueller, Wesley J., and Smith.
Stern, Murray M., Garden City, assignor to Famous Bathrobe Co., Inc., New York, N. Y. Infant's sleeping garment. 2,663,873, Dec. 29.
Stevens, J. P., & Co., Inc., assignee: *See*—
Bradshaw, John A.
Stodgell, Henry, Seattle, Wash. Clamping device. 2,663,938, Dec. 29.
Stone, J., & Company Limited, assignee: *See*—
Nixon, Leslie Reginald.
Strader, Leroy F., Long Beach, Calif., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del. Process and apparatus for catalyst classification in a moving bed catalyst conversion process for hydrocarbons. 2,664,387, Dec. 29.
Stratford Engineering Corporation, assignee: *See*—
Putney, David H.
Strieter, Frederick P.: *See*—
Saunders, William P., and Strieter.
Sullins, Albert E., Ottawa, Kans. Car washing glove with water supply means. 2,663,890, Dec. 29.
Sumpter, Walter F.: *See*—
Bieber, Clarence G., and Sumpter.
Sun Oil Company, assignee: *See*—
Sweely, James S.
Sunday, James J., assignor to Minno-Life Corporation, Detroit, Mich. Combined air pump and cushion. 2,664,241, Dec. 29.
Sutton, John C., assignor by mesne assignments, to Cellusuede Products, Inc., Rockford, Ill. Bathroom scale construction. 2,664,287, Dec. 29.
Swaab, Cyril H., Blymhill, near Shifnal, assignor to H. M. Hobson Limited, London, England. Engine control for aircraft. 2,664,166, Dec. 29.
Swanson, Edwin C.: *See*—
Mansfield, Judson H., and Swanson.
Sweely, James S., Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Polymerization of butadiene-1,3 compound. 2,664,415, Dec. 29.
Swenson, Paul F., Cleveland Heights, and M. F. Pravda, Bedford, assignors to The Cleveland Research Corporation, Cleveland, Ohio. Variable outlet gas burner. 2,664,153, Dec. 29.
Swift & Company, assignee: *See*—
Biddinger, Guy R., and Koonz.
Swift, Walter S., East Rochester, assignor to E. J. Doyle, Rochester, N. Y. Bowling foul indicator. 2,664,290, Dec. 29.
Sylvania Electric Products Inc., assignee: *See*—
Midgley, Eric L.
Sziklai, George C.: *See*—
Bedford, Alda V., and Sziklai.
Tagmann, Eugen: *See*—
Hoffmann, Karl, and Tagmann.
Technicon Cardiograph Corporation, assignee: *See*—
Gorham, George.
Telefonaktiebolaget L M Ericsson, assignee: *See*—
Ericsson, Eric A. W., and Atterling.
Tennant, G. H., Company, assignee: *See*—
Luksch, Andreas, and Hale.
Ter Horst, William P., Lewiston, and W. K. Cline, Niagara Falls, N. Y., assignors to Mathieson Chemical Corporation. Producing trichloromethane sulfonyl chloride. 2,664,443, Dec. 29.
Texas Company, The, assignee: *See*—
Elmer, Otto C.
Pevere, Ernest F., Arnold, and Hess.
Thayer, Richard N., Cleveland Heights, Ohio, assignor to General Electric Company. Thermal inertia lamp cathode testing. 2,664,543, Dec. 29.
Therrien, Louis A., Pittsford, Vt. Reel holder for barbed wire. 2,664,253, Dec. 29.
Thiele, Berthold R., assignor to Speed Queen Corporation, Ripon, Wis. Carpet sweeper and control. 2,663,888, Dec. 29.
Thom, Melvin A., Brighton, N. Y. Drying coated resistors. 2,664,364, Dec. 29.
Thomas, David G. A., Deerhurst-Walton, Gloucestershire, and E. H. Cooke-Yarborough, Faringdon, Berkshire, assignors to The National Research Development Corporation, London, England. Multielectrode gaseous-discharge tube circuits. 2,664,555, Dec. 29.
Thompson, Mernard A., Los Angeles, Calif. Highway signaling device. 2,664,065, Dec. 29.
Thompson Products, Inc., assignee: *See*—
Booth, James H.
Noon, T Cyril.
Thomson, Robert W., Riverside, Ontario, Canada, assignor to Motor Products Corporation, Detroit, Mich. Apparatus for bending glass sheets. 2,663,974, Dec. 29.
Thostenson, Gilbert, Renville, Minn. Combination cigarette case and cutter. 2,664,091, Dec. 29.
Timefax Corporation, assignee: *See*—
Dalton, Harold R.
Timken Roller Bearing Company, The, assignee: *See*—
Bergstrom, Albert L.
Toland, William G., Jr., San Rafael, assignor to California Research Corporation, San Francisco, Calif. Separation of isophthalic and terephthalic acids from their mixtures. 2,664,440, Dec. 29.
Towner Manufacturing Co., assignee: *See*—
Heckathorn, Loyd E.
Trace, Keith B., Detroit, Mich., assignor of one-half to W. E. Pace. Method of and apparatus for generating and cutting gears. 2,664,030, Dec. 29.
Trace, Keith B., Detroit, Mich. Generating and cutting gears. 2,664,031, Dec. 29.
Trammell, Earl M., Jr.: *See*—
Trammell, Earl M., Sr., and E. M. Trammell, Jr.
Trammell, Earl M., Sr., and E. M. Trammell, Jr., St. Louis, Mo. Sash cord fastener. 2,663,896, Dec. 29.
Transue, Gerald O., Havertown, Pa. Automatic injector for hypodermic needles. 2,664,086, Dec. 29.
Travis, Horace F., assignor to Illinois Tool Works, Chicago, Ill. Power screw driver. 2,664,121, Dec. 29.
Trevor, Bertram, Riverhead, N. Y., assignor to Radio Corporation of America. Pulse multiplex communication system. 2,664,509, Dec. 29.
Triolo, Louis, Brooklyn, N. Y. Container-making machine. 2,664,036, Dec. 29.

Tropic-Aire, Inc., assignee: *See*—
Allgeyer, Guy H.
Twede, Erland R., Yuba City, Calif. Damper assembly. 2,664,041, Dec. 29.
Union Carbide and Carbon Corporation, assignee: *See*—
Babcock, Roger S., and Holub.
United Aircraft Corporation, assignee: *See*—
Alford, Wilson M.
Gorton, Willard L.
United-Carr Fastener Corporation, assignee: *See*—
Churchill, Wilmer H.
Hall, Charles L.
Howard, Forbes.
Petri, Hector D.
United Shoe Machinery Corporation, assignee: *See*—
Jester, Arthur W.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Miller, William T.
Smith, Lincoln G.
United States Gypsum Company, assignee: *See*—
Higgs, Morton C., and Hartwright.
United States Rubber Company, assignee: *See*—
Eger, Ernst.
Ladd, Elbert C., and Harvey.
Van Riper, Elmer, and Frey.
United States Smelting Refining and Mining Company, assignee: *See*—
Mathers, Frank C., and Lantz.
United States Steel Corporation, assignee: *See*—
Kiefer, John M., Jr.
Universal Oil Products Company, assignee: *See*—
Haensel, Vladimir.
Universal Wood Heel Co., assignee: *See*—
Butler, Edmund C.
Unterman, Manuel, Far Rockaway, assignor to Republic Aviation Corporation, near Farmingdale, N. Y. Control valve for hydraulic systems. 2,664,105, Dec. 29.
Van Beckum, William G., and A. K. Esterer, assignors to Weyerhaeuser Timber Company, Longview, Wash. Impregnating and laminating fibrous materials with lignin. 2,664,377, Dec. 29.
Van Horn, Earl, Mineola, N. Y. Roller skate having detachable roller assembly. 2,664,295, Dec. 29.
Van Riper, Elmer, Rochelle Park, and G. W. Frey, Wyckoff, N. J., assignors to United States Rubber Company, New York, N. Y. Superimposed multiple cavity mold. 2,663,905, Dec. 29.
Veersma, Walter, assignor to Buss Machine Works, Holland, Mich. Microcontrol for top out-feed planer roll. 2,664,124, Dec. 29.
Venus Foundation Garments, Inc., assignee: *See*—
Diebold, George L.
Verdurin Company, assignee: *See*—
Hale, William J., and Vogelsang.
Vermaire, Paul L.: *See*—
Dadd, Morris V., and Vermaire.
Vesper, Daniel M., and H. L. Edwards, Bartlesville, Okla., assignors to Phillips Petroleum Company. Flow-control apparatus. 2,664,190, Dec. 29.
Viale, Spirito M., Coventry, assignor to Rolls-Royce Limited, Derby, England. Control means for fuel systems of gas turbine engines. 2,664,151, Dec. 29.
Vickers, Herbert H.: *See*—
Rex, Walter A., and Vickers.
Victor Chemical Works, assignee: *See*—
Woodstock, Willard H., and Beck.
Vierling, Donald E., assignor to Atomic Basic Chemicals Corporation, Pittsburgh, Pa. Water-dispersible phenothiazine preparation. 2,664,380, Dec. 29.
Vogelsang, Phelps: *See*—
Hale, William J., and Vogelsang.
Vogt, Clarence W., Norwalk, Conn. Bag assembly. 2,664,238, Dec. 29.
Vogt, Clarence W., Norwalk, Conn. Packaging article. 2,664,239, Dec. 29.
Von Weise, William G., St. Louis, Mo. Fluid actuated diaphragm for collet chucks. 2,664,108, Dec. 29.
Waag, Harry O., and S. R. Prance, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Decorating plastics. 2,663,911, Dec. 29.
Wagner, Adolph A., Milwaukee, and A. J. Werner, Elm Grove, assignors to Wagner Iron Works, Milwaukee, Wis. Concrete mixer with lifting and tilting mechanism. 2,664,276, Dec. 29.
Wagner Iron Works, assignee: *See*—
Wagner, Adolph A., and Werner.
Walker, Jay P., and C. O. Glasgow, assignors to National Tank Company, Tulsa, Okla. Dual control separation of gas and oil. 2,664,170, Dec. 29.
Walker, Ronald W., assignor of one-half to E. E. Piper, Borger, Tex. Fruit juice extracting device. 2,664,042, Dec. 29.
Wallace, Jeffrey J., Amite, La., assignor to Gullett Gin Company. Dynamic pneumatic moting and lint cleaning brush gin. 2,663,912, Dec. 29.
Wallace, William D.: *See*—
Danielson, Vernon S., and Wallace.
Walser, Julius, Radolfzell Bodensee, Germany. Dental matrix. 2,663,935, Dec. 29.
Walters, Clarence C.: *See*—
Darner, Frederic M., and Walters.
War, United States of America as represented by the Secretary of, assignee: *See*—
Sichak, William.
Warner, W. E., assignee: *See*—
Martin, William F.
Warren-Knight Company, assignee: *See*—
Fatkin, Harry W.
Waterbury, Nelson J.: *See*—
Sierer, Payson, and Waterbury.
Waterman, Herbert C.: *See*—
Doremus, John A., and Waterman.
Weatherhead Company, The, assignee: *See*—
King, Lewis O.
Wehrli, Alfred, Islikon, Switzerland. Electric cooking device. 2,664,495, Dec. 29.
Weichselbaum, Theodore E., Normandy, assignor to A. S. Aloe Company, St. Louis, Mo. Preparing hematin standardized reagent. 2,664,403, Dec. 29.
Weingart, Ben, assignee: *See*—
Gannon, Jesse.
Wells, Bruce A., Schenectady, N. Y., assignor to General Electric Company. Aircraft power plant control apparatus. 2,663,992, Dec. 29.
Wells, Lawrence V.: *See*—
Moehring, William D., and Wells.
Wells, Louis E., Jr.: *See*—
Darby, Joseph R., and Wells.
Werner, Arnold J.: *See*—
Wagner, Adolph A., and Werner.
Westinghouse Air Brake Company, assignee: *See*—
Baker, Warwick R., and Rosensteel.
Martin, Paul N.
Muse, Kenneth L.
Westinghouse Electric Corporation, assignee: *See*—
Brace, Porter H.
Caplis, George W.
Morgan, Donald C.
Mosser, James K.
Weyrick, Paul M.
Wiener, Charles.
Weyerhaeuser Timber Company, assignee: *See*—
Van Beckum, William G., and Esterer.
Weyrick, Paul M., Ashland, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Range apparatus. 2,664,493, Dec. 29.
Whalen, John P., assignor to The Bagley & Sewall Company, Watertown, N. Y. Cooled disk brake. 2,664,176, Dec. 29.
Wheeler, Harry L., Jr., La Canada, Calif., assignor to the United States of America as represented by the Secretary of the Army. Machining porous metals. 2,663,928, Dec. 29.
Whidden, Glen S., assignor to The Wilcox-Gay Corporation, Charlotte, Mich. Frequency conversion system. 2,664,501, Dec. 29.
Whipple, Louis A., Jr., La Canada, assignor to Rocky Mountain Drilling Company, Los Angeles, Calif. Drilling rig base. 2,664,178, Dec. 29.
White, Ezekiel F., deceased, West Hartford, Conn.; M. B. White and Hartford National Bank and Trust Company, executors. Choke for gun barrels. 2,663,961, Dec. 29.
White, Godfrey L., Osceola, Ark. Apparatus for cultivating cotton and controlling noxious weeds. 2,663,973, Dec. 29.
White, Madge B., executrix: *See*—
White, Ezekiel F.
Wiberg, Eric A.: *See*—
Ericsson, Eric A., Wiberg, and Atterling.
Wieland, Louis A., Pittsburgh, Pa. Rack truck for rugs. 2,664,307, Dec. 29.
Wiener, Charles, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Tipless quartz lamp. 2,664,517, Dec. 29.
Wiens, Jacob H., Redwood City, Calif. Color television receiving system. 2,664,520, Dec. 29.
Wilcox-Gay Corporation, assignee: *See*—
Moehring, William D., and Wells.
Whidden, Glen S.
Williams, Warren J., Richmond Hill, N. Y., and C. A. Anderson, Cranford, N. J. Sheet metal door construction. 2,664,182, Dec. 29.
Williamson, Clifford N., Cleveland, Ohio, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Weatherproof vibrator assembly. 2,664,455, Dec. 29.
Williston, Harry S.: *See*—
Winslow, Charles H., Jr., and Williston.
Wilson, Christopher L., Columbus, Ohio. Plasticized sponge material and making same. 2,664,366, Dec. 29.
Wilson, Christopher L., Columbus, Ohio. Plasticized sponge material and making same. 2,664,367, Dec. 29.
Winget, William A., Lima, Ohio. Tree uprooting attachment for bulldozers. 2,663,952, Dec. 29.
Winkler, Robert, assignee: *See*—
Sierer, Payson, and Waterbury.
Winneberger, William A., Philadelphia, Pa. Capsule computer and delivery device. 2,664,224, Dec. 29.
Winona Tool Manufacturing Company, assignee: *See*—
Fuglie, Elmer A.
Winslow, Charles H., Jr., Florence, and H. S. Williston, Williamsburg, Mass., assignors to The Lambert Company. Making brushes. 2,664,316, Dec. 29.

Winsten, Walter A., Forest Hills, assignor to Food Research Laboratories, Inc., Long Island City, N. Y. N-substituted streptomycylamines. 2,664,417, Dec. 29.
Winsten, Walter A., Forest Hills, assignor to Food Research Laboratories, Inc., Long Island City, N. Y. Production of streptomycylamines. 2,664,418, Dec. 29.
Winterhalter, James S., Plymouth, Mich., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Hydrocarbon fuel oil of lowered pour point. 2,664,388, Dec. 29.
Winterringer, John H., Yakima, Wash. Lubricating system for the periphery of tires on landing gears for airplanes. 2,664,256, Dec. 29.
Winthrop-Stearns, Inc., assignee: *See*—
Kwartler, Charles E.
Wise, Arthur G.: *See*—
Noodleman, Samuel, and Wise.
Wojcik, Bernard F., Chicago, Ill. Comparator. 2,663,946, Dec. 29.
Wolff, William F., Park Forest, Ill., and C. E. Johnson, Griffith, Ind., assignors to Standard Oil Company, Chicago, Ill. Extraction of sulfur compounds with thiolsulfonic esters. 2,664,385, Dec. 29.
Woodbury, Robert L.: *See*—
Miller, Cornell M. and Woodbury.
Woodruff, Henry P.: *See*—
Misener, Richard E., Abbott, Clarke, and Woodruff.
Woodstock, Willard H., Crete, and T. M. Beck, Homewood, Ill., assignors to Victor Chemical Works. Reaction products of an octyl acid pyrophosphate and soyamine and lubricants containing the same. 2,664,400, Dec. 29.
Worn, George A., Greenwich, Conn., and F. L. Rubin, Brooklyn, assignors to The Lummus Company, New York, N. Y. Method and apparatus employing sonic waves in heat exchange. 2,664,274, Dec. 29.
Wright, Thomas L., Granite Falls, N. C. Yarn cone and tube winder. 2,664,249, Dec. 29.
Wyatt, Frederick W., assignee: *See*—
Reynolds, Frank L.
Yates, Richard C., assignor to Binghamton Metal Forms, Inc., Binghamton, N. Y. Construction form. 2,663,925, Dec. 29.
Yerkovich, Simon, Los Angeles, Calif., assignor to Dictaphone Corporation, Bridgeport, Conn. Drive construction for phonographs or the like. 2,664,293, Dec. 29.
Young, Charles M., Schenectady, N. Y., assignor to General Electric Company. Autopilot control system. 2,664,530, Dec. 29.
Young, Orel E.: *See*—
Barker, Lyle M., and Young.
Young, Walter H.: *See*—
Eldridge, Taustas L., Jr., Young, and MacRae.
Zabel, William P., Cleveland Heights, Ohio, assignor to General Electric Company. Method and apparatus for applying electron emission material. 2,664,361, Dec. 29.
Zeiss-Opton Optische Werke Oberkochen G. m. b. H., assignee: *See*—
Hansen, Gerhard.
Zenith Radio Corporation, assignee: *See*—
Cotsworth, Albert, III.
Howland, John R.
Roschke, Erwin M.
Zimmer, Theodor, and E. Fenner, Erlangen, Germany. Electrical high-vacuum discharge tube. 2,664,516, Dec. 29.
Zmuda, Andrew W., assignor to General Motors Corporation, Detroit, Mich. Valve rotating device. 2,664,075, Dec. 29.
Zublin, John A., Los Angeles, Calif. Apparatus for controlling the course of a lateral bore deviating from a vertical well bore. 2,664,270, Dec. 29.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Actuating and locking means for the handles of plier type tools. W. Sarvie. Re. 23,761, Dec. 29.
Cold milling soap and other materials, Method and apparatus for. D. E. Marshall, J. A. Harrington, and R. L. Crane. Re. 23,760, Dec. 29.
Controlling stem end decay of citrus fruits, Methods and compositions for. M. A. Slade, Jr., and R. D. Gerwe. Re. 23,762, Dec. 29.
Poultry gizzard skinner. M. I. Darrow, G. R. Biddinger, and W. J. Patterson. Re. 23,758, Dec. 29.
Window, Louvered. J. R. Klein. Re. 23,759, Dec. 29.

LIST OF PLANT INVENTIONS

Peach tree. J. F. Duke, Sr., J. F. Duke, Jr., and L. P. Duke. 1,236, Dec. 29.
Rose plant. R. S. Moore. 1,235, Dec. 29.
Rose plant. F. Spanbauer. 1,237, Dec 29.

LIST OF DESIGN INVENTIONS

Ash tray. D. Tomlinson. 171,237, Dec. 29.
Automobile stone shield. F. Reynolds. 171,231, Dec. 29.
Automobile window sill protector. A. R. Blumenthal. 171,190, Dec. 29.
Awning and ventilator, Combined window. D. Macy. 171,215, Dec. 29.
Bank, Coin. F. W. Bower. 171,192, Dec. 29.
Bottle, Wide mouth vacuum. C. Bramming. 171,193, Dec. 29.
Cabinet and easel, Combination. L. L. Fisher. 171,201, Dec. 29.
Cash tray and carrier, Combination. J. McCaffrey. 171,218, Dec. 29.
Chain for a bracelet or similar article, Link. M. Chernow. 171,195, Dec. 29.
Chain for a necklace or similar article, Link. M. Chernow. 171,194, Dec. 29.
Chair. J. E. Jones. 171,208, Dec. 29.
Chair, Contour. F. J. Katulski. 171,211, Dec. 29.
Chair, Folding. J. M. Wiegel. 171,240, Dec. 29.
Chair, Rocking. J. E. Jones. 171,209, Dec. 29.
Chair seat and back assembly. J. E. Jones. 171,210, Dec. 29.
Coffee maker. M. H. Graham, J. N. Polivka, J. K. Hamilton, and R. G. Davis. 171,202, Dec. 29.
Desk or similar article, Book box. W. J. Bargen. 171,181, Dec. 29.
Dress. M. Tait. 171,236, Dec. 29.
Evaporator unit, Milk. A. W. Eckstrom. 171,198, Dec. 29.
Fabric or the like for grills of television and radio cabinets, Textile. J. A. MacIntyre. 171,214, Dec. 29.
Flashlight, Spectacle type. R. P. Evans. 171,200, Dec. 29.
Fly swatter blade. E. H. Trump. 171,239, Dec. 29.
Glove. J. A. Higier. 171,205, Dec. 29.
Grille for an air conditioner panel, Insert. A. G. Trometer. 171,238, Dec. 29.
Horn, Loud-speaker. L. S. Hoodwin. 171,206, Dec. 29.
Housing for organic waste treatment apparatus. M. W. Edwards. 171,199, Dec. 29.
Jacket. M. Tait. 171,235, Dec. 29.
Lamp. A. S. Hess. 171,204, Dec. 29.
Lamp base. M. Axelrod. 171,179, Dec. 29.
Letter opener or similar article. K. Domberger and S. Rael. 171,197, Dec. 29.
Light or similar article, Warning. A. E. Martin and M. D. Lorimor. 171,216, Dec. 29.
Mask for disguise or the like. R. M. Ray. 171,227–30, Dec. 29.
Necklace or similar article. R. Semensohn. 171,233, Dec. 29.
Panty or similar article. E. Kudelka. 171,213, Dec. 29.
Pump, Portable electric. R. L. Barmore. 171,183, Dec. 29.
Rack, Electric wire suspension. H. C. Pfaff, Jr. 171,224, Dec. 29.
Rack, Tool display. C. A. Bowman. 171,191, Dec. 29.
Sign, Advertising. L. E. Peters. 171,223, Dec. 29.
Sign, Neon tube advertising. C. G. A. Rosen. 171,232, Dec. 29.
Sofa, Upholstered. R. A. Maurer. 171,217, Dec. 29.
Stocking. I. Rabinowitz. 171,226, Dec. 29.
Stocking, Lady's. W. G. Bley. 171,184–9, Dec. 29.
Table or similar article. W. J. Bargen. 171,180, Dec. 29.
Tire. E. W. Hawkinson. 171,203, Dec. 29.
Tool support. W. H. Odlum and K. A. Paine, Jr. 171,222, Dec. 29.
Tool unit or the like, Portable electric. W. A. Nystrom. 171,220–1, Dec. 29.
Toy, Pop-up figure. M. Sugita. 171,234, Dec. 29.
Tractor, Three-wheeled. B. T. Aasland, M. W. Bloom, and W. L. Zink. 171,178, Dec. 29.
Trailer, House. S. J. Kropf. 171,212, Dec. 29.
Tray, Slide filing. H. L. Mills. 171,219, Dec. 29.
Tricycle. R. K. Dix. 171,196, Dec. 29.
Truck, Motor. E. S. Prichard. 171,225, Dec. 29.
Typewriter and multipurpose desk. W. J. Bargen. 171,182, Dec. 29.
Wheel for chucking tools, Hand. C. H. Ingwer. 171,207, Dec. 29.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF DECEMBER, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accommodation and storage of crockery. O. Koch. 2,664,193, Dec. 29.
Acetylene by incomplete combustion of hydrocarbons, Production of. H. Sachsse, T. Kosbahn, and E. Lehrer. 2,664,450, Dec. 29.
Acidizing wells. D. C. Bond. 2,664,398, Dec. 29.
Adducts of thianaphthene-1-1-dioxide. O. C. Elmer. 2,664,426, Dec. 29.
Air conditioning control apparatus. E. M. Miller. 2,664,244, Dec. 29.
Aircraft power plant control apparatus. B. A. Wells. 2,663,992, Dec. 29.
Air cycle water cooler. W. R. Brisken and F. J. Neugebauer. 2,664,001, Dec. 29.
Air pump and cushion, Combined. J. J. Sunday. 2,664,241, Dec. 29.
Airscrew, Adjustable airplane-helicopter. H. E. Giroz. 2,664,168, Dec. 29.
Air-speed control system. H. S. Hendrickson. 2,664,254, Dec. 29.
Aldal condensation. F. R. Charlton and D. A. Dowden. 2,664,446, Dec. 29.
Alkaline earth phosphate phosphors of the apatite type. A. H. McKeag and P. W. Ranby. 2,664,401, Dec. 29.
Alkyiation utilizing evaporative cooling. D. H. Putney. 2,664,452, Dec. 29.
Amusement device. W. M. Eckbreth. 2,664,053, Dec. 29.
Anchor escapement for timepieces. M. Huguenin. 2,663,991, Dec. 29.
Anesthetic apparatus. H. Hammermann. 2,664,084, Dec. 29.
Antenna. W. Sichak. 2,664,508, Dec. 29.
Antenna for vehicle mounting. W. J. Race. 2,664,506, Dec. 29.
Antenna, Simplified electrically steerable. F. Mural. 2,664,507, Dec. 29.
Antiskid cross chain. I. Botnick. 2,664,134, Dec. 29.
Antisweat flush tank. J. J. Oliverio. 2,664,100, Dec. 29.
Apparatus for assembling tubular binders with loose-leaf books. A. Freundlich. 2,663,883, Dec. 29.
Apparatus for bending glass sheets. R. W. Thomson. 2,663,974, Dec. 29.
Apparatus for controlling highway crossing signals. K. L. Muse. 2,664,499, Dec. 29.
Apparatus for controlling the course of a lateral bore deviating from a vertical well bore. J. A. Zublin. 2,664,270, Dec. 29.
Apparatus for cultivating cotton and controlling noxious weeds. G. L. White. 2,663,973, Dec. 29.
Apparatus for cutting artificial filaments into short lengths. R. H. Speakman. 2,664,160, Dec. 29.
Apparatus for depositing marshmallow, dough, batters, and the like. E. T. Oakes. 2,664,055, Dec. 29.
Apparatus for determining weight of material on conveyers. W. H. Frazel. 2,664,286, Dec. 29.
Apparatus for electromagnetic separation of wet ores. A. L. J. Queneau. 2,664,200, Dec. 29.
Apparatus for fabricating strands, cords, tubes, and the like. G. Slayter and E. Fletcher. 2,664,138, Dec. 29.
Apparatus for injecting filling within bakery products. Js M. Galvin. 2,664,054, Dec. 29.
Apparatus for making linked products. J. D. Conti. 2,663,982, Dec. 29.
Apparatus for milling rubber. A. Hale and G. V. Kullgren. 2,663,901, Dec. 29.
Apparatus for removing heads from bodies of shrimps. C. A. and E. F. Greiner. 2,663,897, Dec. 29.
Apparatus for shoe manufacture. A. E. St. Germain. 2,663,884, Dec. 29.
Apparatus for the magnetic levitation and heating of conductive materials. P. H. Brace. 2,664,496, Dec. 29.
Apparatus for type composition. G. E. Canham. 2,664,038, Dec. 29.
Applying electron emission material, Method and apparatus for. W. P. Zabel. 2,664,361, Dec. 29.
Arc welding electrode. R. J. F. D. R. Monton. 2,664,488, Dec. 29.
Archer's bow, Metal. H. F. Lake. 2,664,079, Dec. 29.
Arrow shooter. H. G. Irwin. 2,664,078, Dec. 29.
Article support. M. C. Davidson. 2,664,209, Dec. 29.
Articles from polyethylene films, Manufacture of. G. W. Heller. 2,664,378, Dec. 29.
Auto correlation. H. Hurvitz. 2,664,243, Dec. 29.
Automatic dispensing, weighing, and recording apparatus. W. E. Saxe. 2,664,260, Dec. 29.
Automatic lighting circuit. R. E. Hall. 2,664,524, Dec. 29.
Autopilot control system. C. M. Young. 2,664,530, Dec. 29.
Awning, Ventilating metal. E. W. Pollock. 2,663,918, Dec. 29.
Baby walker with removable sling. E. M. Musselman. 2,664,141, Dec. 29.
Back rest, Collapsible. J. W. Meeks. 2,663,880, Dec. 29.
Back rest, Sofa bed. H. A. Backus. 2,663,878, Dec. 29.
Bag assembly. C. W. Vogt. 2,664,238, Dec. 29.
Ball mill with feed and discharge means at each opposite end. J. B. Martin. 2,664,248, Dec. 29.
Bathtub chair. A. Scheuerman and O. L. Smith. 2,664,142, Dec. 29.
Battery electrode. M. Lang. 2,664,453, Dec. 29.
Bearing: *See*—
Floating type roller bearing.
Bearing and the manufacture thereof, Plated. J. F. Kuzmick. 2,664,326, Dec. 29.
Beet topping mechanism. L. Gransden. 2,663,986, Dec. 29.
Bentonite sulfur. V. J. Russo and J. F. Les Veaux. 2,664,379, Dec. 29.
Benzoic-p-sulfonamide, Production of. H. Feichtinger and S. Puschhof. 2,664,439, Dec. 29.
Bit: *See*—
Roller bit.
Bituminous product surfaced with mineral granules and making same. M. C. Higgs and G. Hartwright. 2,664,362, Dec. 29.
Blade dispensing package. J. Muros. 2,664,192, Dec. 29.
Block: *See*—
Sanding block.
Blow-on contact structure. F. J. Pokorny. 2,664,479, Dec. 29.
Board: *See*—
Chance controlled game board. Magnetic game board.
Order board.
Boat propelling mechanism, Manually operated. J. F. Prenosil, Sr. 2,664,064, Dec. 29.
Bottle capping machine with means for controlling the force on capping plungers. N. V. Burdin. 2,664,013, Dec. 29.
Bottom draining spinning bucket. H. D. Haley. 2,663,988, Dec. 29.
Bowl, Animal operated drinking. A. E. Anderson. 2,664,069, Dec. 29.
Bowling foul indicator. W. S. Swift. 2,664,290, Dec. 29.
Box: *See*—
Storage and utility box.
Bracelet end connection. K. Albrecht. 2,663,924, Dec. 29.
Brake: *See*—
Cooled disk brake.
Brake and steering attachment for toboggans, Combination. J. E. La Marr. 2,664,174, Dec. 29.
Brake drum lathe. H. B. Barrett. 2,663,975, Dec. 29.
Brassière. G. L. Diebold. 2,663,872, Dec. 29.
Broiler griddle mounting means. G. H. Allgeyer. 2,664,490, Dec. 29.
Brush and sponge windshield cleaner, Combination. E. A. Fuglie. 2,663,889, Dec. 29.
Brush assembling machine. J. G. Baumgartner. 2,664,315, Dec. 29.
Brushes, Making. C. H. Winslow, Jr., and H. S. Williston. 2,664,316, Dec. 29.
Bucket, Collapsible. B. G. Miller. 2,664,131, Dec. 29.
Burner: *See*—
Variable outlet gas burner.
Bushing. H. D. Petri. 2,663,895, Dec. 29.
Cabinet: *See*—
Refrigerator cabinet.
Cable: *See*—
Electric cable.
Can bag unloading apparatus. S. R. Johnson and E. G. Blaing-Leisk. 2,664,218, Dec. 29.
Can bag unloading method and apparatus. S. R. Johnson and E. G. Blaing-Leisk. 2,664,216, Dec. 29.
Can with built-in dispenser. I. T. Dobkin. 2,664,223, Dec. 29.
Canning whole food articles. E. H. Eichler. 2,664,358, Dec. 29.
Cap and eyeshield, Combination. S. Feldman. 2,663,870, Dec. 29.
Cap hanger. E. W. Hintsala. 2,663,875, Dec. 29.

Capsule computer and delivery device. W. A. Winneberger. 2,664,224, Dec. 29.
Carbon paper pack for manifolding typewriters. J. C. Doyle. 2,664,301, Dec. 29.
Carbonization of coal. E. F. Pevere, G. B. Arnold, and H. V. Hess. 2,664,390, Dec. 29.
Carburetor and fuel-air ratio regulator, Pressure. J. A. Bascle. 2,664,279, Dec. 29.
Carpet sweeper and controls. B. R. Thiele. 2,663,888, Dec. 29.
Cart, Dump. W. J. Mueller and I. R. Smith. 2,664,310, Dec. 29.
Carton blank. D. Levkoff. 2,664,236, Dec. 29.
Carton, Carrier. C. L. Champlin, R. C. Ellsworth, and R. J. Hickin. 2,664,235, Dec. 29.
Carton, Egg. M. M. Buger. 2,664,233–4, Dec. 29.
Case for portable sewing machines, Carrying. C. Galser. 2,664,333, Dec. 29.
Catalyst chamber collector system. A. R. Rehrig. 2,664,347, Dec. 29.
Catalyst classification in a moving bed catalyst conversion process for hydrocarbons, Process and apparatus for. L. F. Strader. 2,664,387, Dec. 29.
Catalytic apparatus and treating exhaust gases. E. J. Houdry. 2,664,340, Dec. 29.
Catalytic process. P. W. Cornell. 2,664,339, Dec. 29.
Catalytic synthesis of organic compounds. T. B. Hudson. 2,664,433, Dec. 29.
Cathode-ray decoder for pulse code modulation. W. R. Bennett. 2,664,504, Dec. 29.
Cellulose, Manufacture of. F. R. Charles and J. A. Dixon. 2,664,360, Dec. 29.
Cement mixer. L. T. Davies. 2,664,277, Dec. 29.
Cementing apparatus, Well. S. B. Schnitter. 2,664,163, Dec. 29.
Cementing machine for thin flexible sheet material. W. P. Osgood. 2,664,068, Dec. 29.
Centrifugal casting of metal parts. C. Cito. 2,663,921, Dec. 29.
Centrifugal compressor rotor vibration damper. W. L. Gorton. 2,664,240, Dec. 29.
Chain: *See*—
Antiskid cross chain.
Saw chain.
Chain attachment, Antiskid. E. Eger. 2,664,133, Dec. 29.
Chair: *See*—
Bathtub chair.
Resilient slat-seat chair.
Collapsible and portable high chair.
Chair with detachable footrest. M. D. Rechler. 2,664,148, Dec. 29.
Chance controlled game board. W. D. Lee. 2,664,292, Dec. 29.
Check valve mounting. R. Fennema. 2,664,264, Dec. 29.
Child's automobile seat. J. H. Kindelberger. 2,664,140, Dec. 29.
Choke for gun barrels. E. F. White. 2,663,961, Dec. 29.
Chopper, Food. J. Braunwalder and E. Meyer. 2,664,128, Dec. 29.
Cigarette case and cutter, Combination. G. Thostenson. 2,664,091, Dec. 29.
Circuit: *See*—
Automatic lighting circuit.
Motor control circuit.
Electronic motor control circuit.
Thyratron inverter circuit.
Frequency multiplier circuit.
Visualized race track gate circuit.
Circuit breaker. C. V. Chermendy. 2,664,474, Dec. 29.
Circuit breaker. H. V. Elliott. 2,664,480, Dec. 29.
Circuit breaker, High-voltage. A. S. Caswell. 2,664,485, Dec. 29.
Circuit for television receivers, Automatic frequency control. A. Cotsworth, III. 2,664,464, Dec. 29.
Circuit resistor construction, Fluid. R. F. Iager. 2,664,109, Dec. 29.
Circuits, Deflection. K. Schlesinger. 2,664,521, Dec. 29.
Circuits employing gas-filled electron tubes, Alternating current railway track. P. N. Martin. 2,664,498, Dec. 29.
Circuits for induction motors, Control. A. J. Lewus. 2,664,532, Dec. 29.
Circuits, Multielectrode gaseous-discharge tube. D. G. A. Thomas and E. H. Cooke-Yarborough. 2,664,555, Dec. 29.
Clamp: *See*—
Shift rod adjusting clamp.
Clamping device. H. Stodgell. 2,663,938, Dec. 29.
Cleaner: *See*—
Vacuum street cleaner.
Clipper head, Rotary. R. Lecours. 2,663,931, Dec. 29.
Clothesline support. A. O. Lindstrom. 2,664,211, Dec. 29.
Clutch: *See*—
One-way clutch.
Coated articles and textiles and emulsions for producing them. C. Schlatter, J. B. Eisen, and G. D. Jefferson. 2,663,989, Dec. 29.
Coating and lubricating composition. A. F. Kluender. 2,664,399, Dec. 29.
Coating machine, Capacitor. R. L. Martin. 2,664,066–7, Dec. 29.
Collapsible and portable high chair. A. Li Calsi. 2,664,143, Dec. 29.
Comb, Sectional. G. F. Benco. 2,664,092, Dec. 29.
Commutating mechanism for crossbar switches. A. J. Montchausse. 2,664,468, Dec. 29.
Comparator. B. F. Wojcik. 2,663,946, Dec. 29.
Compass, dividers, and scriber, Combined ball point marking. T. W. Lepkowski. 2,663,936, Dec. 29.
Composition roller skate wheel. T. Glynn and J. W. Cleever. 2,664,317, Dec. 29.
Concrete mixer with lifting and tilting mechanism. A. A. Wagner and A. J. Werner. 2,664,276, Dec. 29.
Cone and socket pipe joint with cooperating locking lug. E. J. Mansfield. 2,664,303, Dec. 29.
Construction form. R. C. Yates. 2,663,925, Dec. 29.
Contact delivery device for perfume. M. P. Hanryon. 2,663,891, Dec. 29.
Contact lenses and making same. W. F. Herman. 2,664,025, Dec. 25.
Container: *See*—
Paper container.
Container and spool for leader lines and the like. E. L. Sharp. 2,664,194, Dec. 29.
Container-making machine. L. Triolo. 2,664,036, Dec. 29.
Container with sifter top, Dispensing. G. C. Erb. 2,664,229, Dec. 29.
Continuous distillation of heat sensitive compounds. K. E. Coulter. 2,664,391, Dec. 29.
Continuous method and apparatus for the production of chlorine dioxide. E. E. Kesting. 2,664,341, Dec. 29.
Control apparatus for electric locks for railway track switches. W. R. Baker and R. M. Rosensteel. 2,664,500, Dec. 29.
Control means for fuel systems of gas turbine engines. S. M. Viale. 2,664,151, Dec. 29.
Convertible top boot construction. A. Kavalar. 2,664,309, Dec. 29.
Converting fibrous cellulose into an easily powderable form. J. Downing and J. G. N. Drewitt. 2,663,907, Dec. 29.
Conveyer, Dough. L. V. Lewis. 2,664,214, Dec. 29.
Conveyer feed mechanism. G. L. Hager. 2,664,189, Dec. 29.
Conveying device. H. C. Rhodes. 2,664,188, Dec. 29.
Cooking device, Electric. A. Wehrli. 2,664,495, Dec. 29.
Cooled disk brake. J. P. Whalen. 2,664,176, Dec. 29.
Cooler: *See*—
Air cycle water cooler.
Copolymers of acrylonitrile and nicotinamides. G. E. Ham and A. B. Craig. 2,664,412, Dec. 29.
Core lifting and setting fixture. M. E. Lentz. 2,663,919, Dec. 29.
Coupling. E. G. Boice. 2,664,272, Dec. 29.
Coupling for drink mixers. O. M. Anderson. 2,664,002, Dec. 29.
Coupling for milking system, Valved. A. E. Anderson. 2,664,104, Dec. 29.
Cover: *See*—
Hot top cover.
Wheel cover.
Crane. N. G. Bell. 2,664,212, Dec. 29.
Crayon pointer. M. C. Knapp. 2,664,072, Dec. 29.
Culinary utensil holder. F. E. Kosinski. 2,664,005, Dec. 29.
Current supply apparatus. H. H. Spencer. 2,664,538, Dec. 29.
Cushioning member for artificial dentures. F. E. Avery. 2,663,933, Dec. 29.
Cutoff mechanism for marking machines, Selectively operable. F. C. Geller. 2,664,159, Dec. 29.
Cylinder boss assembly. L. O. King. 2,664,222, Dec. 29.
Damper assembly. E. R. Twede. 2,664,041, Dec. 29.
Decorating plastics. H. O. Waag and S. R. Prance. 2,663,911, Dec. 29.
Deep-drawing of sheet metal. C. J. Rhodes. 2,664,061, Dec. 29.
Dehydrogenation. J. R. Owen. 2,664,451, Dec. 29.
Deicing apparatus. J. K. Mosser. 2,663,993, Dec. 29.
Delay line device. H. N. Beveridge. 2,664,547, Dec. 29.
Δ^{4}-17α-hydroxy-3,20-dikete-pregnen-21-als. K. Miescher and J. Schmidlin. 2,664,428, Dec. 29.
Dental floss holder. R. N. Carpenter. 2,664,093, Dec. 29.
Dental matrix. J. Walser. 2,663,935, Dec. 29.
Depositing copper. M. Meth. 2,664,363, Dec. 29.
Desk and safe, Combined. H. E. Glotfelter. 2,664,331, Dec. 29.
Device for cleaning poultry gizzards or the like. G. R. Biddinger and C. H. Koonz. 2,663,899, Dec. 29.
Device for connection of cables by means of plugs and sockets. E. A. Ericsson, E. A. Wiberg, and E. A. Atterling. 2,664,552, Dec. 29.
Device for measuring pitch diameter of screws, bolts, and the like. L. J. Scully. 2,663,948, Dec. 29.
Device for sharpening hypodermic needles and other instruments. G. W. Jacoby, Jr. 2,663,976, Dec. 29.
Device for testing the tolerances of workpieces. H. Haidégger. 2,663,943, Dec. 29.
Dialkyl 3-dodecyloxypropane-1-phosphonate. E. C. Ladd and M. P. Harver. 2,664,438, Dec. 29.
Dialyzer. J. F. Marchand. 2,664,395, Dec. 29.
Diaphragm for collet chucks, Fluid actuated. W. G. von Weise. 2,664,108, Dec. 29.
Die stamping and drawing. W. J. Bentsen. 2,664,062, Dec. 29.
Differential froth flotation process. P. R. Hines. 2,664,198, Dec. 29.
Dioxo-piperidines. K. Hoffmann and E. Tagmann. 2,664,424, Dec. 29.

Dishwasher. J. H. Spragins. 2,664,094, Dec. 29.
Dispenser: *See*—
Tape dispenser.
Dispenser for attached powder puff, Powder. R. G. Gobin. 2,664,226, Dec. 29.
Dispenser for toothpaste and like materials. J. A. Chokas. 2,664,225, Dec. 29.
Dispensing vessel, Nondrip fluid. J. G. Heim. 2,664,230, Dec. 29.
Display fixture, Magazine. L. E. Beal. 2,664,206, Dec. 29.
Display rail. G. E. Hill. 2,663,879, Dec. 29.
Distillation of solids, Process and apparatus for the. W. A. Rex and H. H. Vickers. 2,664,389, Dec. 29.
Doll construction. D. Ippolito. 2,663,971, Dec. 29.
Doll's eye, Movable. J. L. Lee. 2,663,972, Dec. 29.
Domestic appliance. C. F. Abresch. 2,664,050, Dec. 29.
Door construction, Hollow metal. E. Boughton. 2,664,181, Dec. 29.
Door construction, Sheet metal. W. J. Williams and C. A. Anderson. 2,664,182, Dec. 29.
Dosimeter. A. M. Moos. 2,664,511, Dec. 29.
Draft rigging for vehicles. V. S. Danielson and W. D. Wallace. 2,664,300, Dec. 29.
Drainage tube. O. W. Schmidt and W. C. Martin. 2,663,997, Dec. 29.
Drawer for case goods, Full floating cushioned. C. A. Bissman. 2,664,334, Dec. 29.
Drawing press. O. H. May. 2,664,191, Dec. 29.
Drier: *See*—
Vehicle dried.
Drier. C. P. Mann. 2,664,282, Dec. 29.
Drilling rig base. L. A. Whipple, Jr. 2,664,178, Dec. 29.
Drive construction for phonographs or the like. S. Yerkovich. 2,664,293, Dec. 29.
Drive for magnetic tape. E. Berlant. 2,664,251, Dec. 29.
Drying coated resistors. M. A. Thom. 2,664,364, Dec. 29.
Dual choker hook. R. H. Silver. 2,663,922, Dec. 29.
Dual control separation of gas and oil. J. P. Walker and C. O. Glasgow. 2,664,170, Dec. 29.
Dynamic pneumatic moting and lint cleaning brush gin. J. J. Wallace. 2,663,912, Dec. 29.
Dynamoelectric machine. J. F. G. Petit. 2,664,539, Dec. 29.
Dynamoelectric machine core and winding ventilation arrangement. E. D. Huntley. 2,664,512, Dec. 29.
Earth cutting tool. C. C. Merrick. 2,664,273, Dec. 29.
Earthworking implement with frame leveling means, Variable tread. L. E. Heckathorn. 2,664,039, Dec. 29.
Edge roll for spring cushion assemblies. W. F. Richardson. 2,663,882, Dec. 29.
Edging roller. A. W. Schaefer. 2,663,892, Dec. 29.
Electric ballast. W. L. Henderson. 2,664,541, Dec. 29.
Electric cable. P. M. Hollingsworth. 2,664,372, Dec. 29
Electric frog, Automatic. E. C. Brown and T. Finan. 2,664,472, Dec. 29.
Electric switch. P. R. Goudy and K. G. Sedgwick. 2,664,482, Dec. 29.
Electrical high-vacuum discharge tube. T. Zimmer and E. Fenner. 2,664,516, Dec. 29.
Electrical resistor. H. C. Gorden. 2,664,487, Dec. 29.
Electrochemical conversion of hydrocarbons. W. B. Reeves. 2,664,394, Dec. 29.
Electrolytic refining of lead. F. C. Mathers and G. B. Lantz. 2,664,393, Dec. 29.
Electromagnet and cooling means therefor, Adjustable. F. E. Reed, Jr. 2,664,527, Dec. 29.
Electromagnetic deflection generator. J. D. Spradlin and F. Himelfarb. 2,664,523, Dec. 29.
Electromagnetic relay. K. L. Johansson. 2,664,478, Dec. 29.
Electron multiplier, Magnetic. L. G. Smith. 2,664,515, Dec. 29.
Electronic motor control circuit. H. P. Raab. 2,664,533, Dec. 29.
Employing sonic waves in heat exchange, Method and apparatus. G. A. Worn and F. L. Rubin. 2,664,274, Dec. 29.
Engine control for aircraft. C. H. Swaab. 2,664,166, Dec. 29.
Engine starter system. A. A. Lombard and D. H. Mattinson. 2,663,994, Dec. 29.
Epicyclic power transmission mechanisms. E. J. de Normanville. 2,664,016, Dec. 29.
Equipment for automatically controlling single phase motors. L. Heidmann. 2,664,536, Dec. 29.
Exercising device. A. T. Norwich. 2,664,289, Dec. 29.
Exposure and film-feeding control device for photographic cameras. A. V. L. C. Debrie. 2,664,037, Dec. 29.
External power feed scarfing process and apparatus. R. S. Babcock and E. M. Holub. 2,664,368, Dec. 29.
Extraction of sulfur compounds with thiolsulfonic esters. W. F. Wolff and C. E. Johnson. 2,664,385, Dec. 29.
Extrusion of thermoplastics. C. E. Slaughter. 2,663,904, Dec. 29.
Fabricating strands, cords, tubes, and the like. G. Slayter and E. Fletcher. 2,664,374, Dec. 29.
Fan with guard, Adjustable. F. Se Bastian. 2,664,242, Dec. 29.
Fastener: *See*—
Sash cord fastener.
Fastening collar for attaching a cylindrical element to a perforated plate. R. J. Leverte. 2,664,132, Dec. 29.
Fatty acid treatment. M. D. Reinish and J. P. Caldarera. 2,664,430, Dec. 29.
File holder. J. B. Cox. 2,664,017, Dec. 29.
Filing equipment for identification badges. H. S. Mues. 2,664,195, Dec. 29.
Filter: *See*—
Oil burner filter.
Filter construction, Air. C. E. Butterfield. 2,664,172, Dec. 29.
Filter device, Liquid. V. S. Crane and P. R. Honan. 2,664,203, Dec. 29.
Fire alarm switch. W. Normand. 2,664,484, Dec. 29.
Fishhook structure, Adjustable. A. C. DeMello. 2,663,966, Dec. 29.
Fishing bait, Artificial. W. F. Martin. 2,663,964, Dec. 29.
Fishing plug. L. Rosen. 2,663,965, Dec. 29.
Fissured tile composed of glass fibers, gypsum cement, and amine-aldehyde resin, and making same. M. C. Armstrong. 2,664,406, Dec. 29.
Flame-resistant compositions comprising a transparent resin, chlorinated paraffin wax, and triphenyl stibine. R. S. Cooper. 2,664,411, Dec. 29.
Flash arrester for draft intake of furnace fireboxes. W. O. Moran. 2,664,081, Dec. 29.
Flashing construction. A. B. Hammitt and H. L. Birum, Jr. 2,664,177, Dec. 29.
Floating type roller bearing. A. L. Bergstrom. 2,664,325, Dec. 29.
Floor, Sectional insulated. A. Dietrich. 2,663,915, Dec. 29.
Floor treatment implement with vacuum cleaning mechanism. L. A. Percy. 2,663,893, Dec. 29.
Flotation recovery of molybdenite. L. M. Barker and O. E. Young. 2,664,199, Dec. 29.
Flow control apparatus. D. M. Vesper and H. L. Edwards. 2,664,190, Dec. 29.
Flow controlling apparatus. T. C. Noon. 2,664,110, Dec. 29.
Fluid flow control. J. J. Piros. 2,664,111, Dec. 29.
Fluid mixing device. E. P. Aghnides. 2,664,278, Dec. 29.
Fluid reactor. R. L. Mayhew. 2,664,346, Dec. 29.
Fluid treating apparatus for strands. P. D. Emerson. 2,664,009–10, Dec. 29.
Fluidized fixed bed process. P. W. Cornell. 2,664,336–7, Dec. 29.
Focusing mechanism, Magnetic. S. L. Reiches and D. P. Ingle. 2,664,514, Dec. 29.
Folding machine. A. W. Jester. 2,663,886, Dec. 29.
Folding trailer drum rack. D. E. Shelby. 2,664,298, Dec. 29.
Forming a multipart plastic structure. E. L. Danielson and F. J. Dofsen. 2,663,910, Dec. 29.
Forming threaded articles, Method and apparatus for. C. L. Hornberger and A. Schulz. 2,664,136, Dec. 29.
4-(cyclopentanopolyhydrophenanthr-17-yl) imidazoles and derivatives thereof. K. Rorig. 2,664,423, Dec. 29.
Frequency conversion system. G. S. Whidden. 2,664,501, Dec. 29.
Frequency modulation detector. U. S. Berger. 2,664,505, Dec. 29.
Frequency multiplier circuit. J. S. Russo. 2,664,510, Dec. 29.
Frequency-sensitive apparatus for indicating the magnitude of a condition and limit indication means therefor. C. G. Sontheimer. 2,664,556, Dec. 29.
Friction reducing apparatus for governor spindles. E. L. Appleby. 2,664,285, Dec. 29.
Fruit feeding, impaling, peeling, trimming, celling, coring, and splitting apparatus. W. B. Coons. 2,664,129, Dec. 29.
Fuel injection apparatus for injection engines. T. Ono. 2,664,313, Dec. 29.
Fuel system for gas turbine engines. K. R. Davies and K. Herbstritt. 2,664,152, Dec. 29.
Furnace control system. F. O. Hess and J. Kniveton. 2,664,283, Dec. 29.
Fuse mechanism for projectiles, Mechanical time. G. Hoenger. 2,664,046, Dec. 29.
Game, Helical runway ball. H. F. Petterson. 2,664,291, Dec. 29.
Gapping machine, Spark plug. L. M. Oden, Sr. 2,664,135, Dec. 29.
Garment and cargo pocket therefor, Body. C. M. Miller and R. L. Woodbury. 2,663,876, Dec. 29.
Garment and like press. J. Simpson, Jr. 2,663,955, Dec. 29.
Garment, Foundation. O. Erteszek. 2,663,871, Dec. 29.
Garment, Infant's sleeping. M. M. Stern. 2,663,873, Dec. 29.
Garment press with a single manual control. J. Simpson, Jr., and G. O'Dell. 2,663,956, Dec. 29.
Gas cock. A. Stadler. 2,664,263, Dec. 29.
Gathering and loading machine. F. B. Miller. 2,664,185, Dec. 29.
Gauge: *See*—
Piston rod stuffing - box gauge. Thread gauge.
Shockproof dial indicator gauge.
Gauge and ejector for heel shaping machines. E. C. Butler. 2,664,125, Dec. 29.
Gear: *See*—
Trailer landing gear.
Gearing for the running axle of vehicles, Power transmission. L. R. Nixon. 2,664,003, Dec. 29.
Generating and cutting gears, Method of and apparatus for. K. B. Trace. 2,664,030, Dec. 29.

Generating and cutting gears. K. B. Trace. 2,664,031, Dec. 29.
Generator: *See*—
Electromagnetic deflection generator.
Glass composition. D. P. Dingledy. 2,664,359, Dec. 29.
Glass fibers and bonded mat, Producing. D. Labino. 2,663,906, Dec. 29.
Grandstand. C. Mackintosh. 2,663,913–14, Dec. 29.
Grommet, Strain-relief. G. M. Rapata. 2,664,458, Dec. 29.
Guard for high chairs, Safety. M. S. Byrne. 2,664,150, Dec. 29.
Guard for industrial machines. W. D. Herrick. 2,664,332, Dec. 29.
Gun for perforating casing. J. G. McKean. 2,664,158, Dec. 29.
Gun perforator for oil wells, Small. G. F. Abendroth. 2,664,157, Dec. 29.
Gun perforator for wells, Small. T. O. Allen. 2,664,156, Dec. 29.
Handle and whistle, Balloon. H. A. Longino. 2,663,968, Dec. 29.
Handle connection for plug valves. W. A. Ray. 2,664,103, Dec. 29.
Hanger: *See*—
Cap hanger.
Hanger. J. C. Rose. 2,664,259, Dec. 29.
Harvester, Corn. R. C. Ferguson. 2,663,983, Dec. 29.
Harvester, Forage. J. L. Hilnson. 2,663,985, Dec. 29.
Hassock and bed combination, Convertible. C. B. Creveling and E. V. Pennell. 2,664,145, Dec. 29.
Heat shield for incandescent lamps, Metallic. D. C. Morgan. 2,664,513, Dec. 29.
Heater and by-passing valve construction therefor, Tankless. H. W. Carter. 2,664,275, Dec. 29.
Heater appliance for lunch boxes, Electric. G. G. Kenney. 2,664,491, Dec. 29.
Heater control. W. J. F. O'Connor and F. A. Rowen, Jr. 2,664,245, Dec. 29.
Heater for hog fountains, Electric. F. M. Beekley. 2,664,494, Dec. 29.
Heating plate structure. K. Fischer. 2,664,492, Dec. 29.
Heating system, Electrical. J. W. Dickey. 2,664,489, Dec. 29.
Helmet, Plastic. G. A. Lyon. 2,663,874, Dec. 29.
Hematin standardized reagent, Preparing. T. E. Weichselbaum. 2,664,403, Dec. 29.
Heterocyclic metal and sulfur organic compounds. E. A. H. Friedheim. 2,664,432, Dec. 29.
High pressure and temperature reaction chamber. C. F. Bonilla. 2,664,348, Dec. 29.
Hinge, Resilient folding rule. H. M. and J. E. Gasstrom. 2,663,940, Dec. 29.
Hinged bus enclosure. W. H. Schymik. 2,664,456, Dec. 29.
Holder: *See*—
Culinary utensil holder. File holder.
Dental floss holder.
Holder and receptacle such as cocktail glass and the like article, Combination. S. Forman, L. Ramer, and A. Mund. 2,664,004, Dec. 29.
Holster, Pliers. M. C. La Mantia. 2,664,231, Dec. 29.
Hook: *See*—
Dual choke hook.
Hot top cover. B. F. Anthony. 2,663,920, Dec. 29.
Hydraulic jack. W. S. Pine. 2,664,073, Dec. 29.
Hydrocarbon fuel oil of lowered pour point. J. S. Winterhalter. 2,664,388, Dec. 29.
Hydrogen halide production. A. J. Johnson. 2,664,342, Dec. 29.
Illuminated illusion device. E. Cerracchio. 2,663,960, Dec. 29.
Impregnating and laminating fibrous materials with lignin. W. G. Van Beckum and A. K. Esterer. 2,664,377, Dec. 29.
Improved siliceous insulating material. G. W. Andersen and J. M. Diehl. 2,664,405, Dec. 29.
Increasing productivity of siliceous geological formations. D. C. Bond. 2,664,165, Dec. 29.
Increasing the solubility of riboflavin. L. A. Flexser and W. G. Farkas. 2,664,421, Dec. 29.
Index member and adjustable indicator tab therefor. G. B. Meltzer. 2,664,089, Dec. 29.
Index regulator set. H. Kocher. 2,663,90, Dec. 29.
Indicating device. H. Konet and P. E. Seifried. 2,664,558, Dec. 29.
Indicator: *See*—
Bowling foul indicator.
Injector for hypodermic needles, Automatic. G. O. Transue. 2,664,086, Dec. 29.
Inking mechanism for printer slotter-multicolor rolls. G. N. Rullo. 2,664,045, Dec. 29.
Installing and removing flow valves, Means for. K. C. Howard, H. E. McGowen, Jr., and H. H. Moore, Jr. 2,664,162, Dec. 29.
Instantaneous automatic monitor. D. J. De Loi. 2,664,503, Dec. 29.
Instrument for measuring inside dimensions. H. Rudolph. 2,663,942, Dec. 29.
Intermittently operating direction responsive switch. H. B. Lewis and H. Field, Jr. 2,664,477, Dec. 29.
Interpole shunting means for alternating current commutating motors. R. M. Smith and M. W. Bellis. 2,664,535, Dec. 29.
Ion-exchange resins from carboxyalkyl cellulose ethers. W. M. Hutchinson. 2,664,397, Dec. 29.
Ion exchange treatment of solutions containing cyanohydrins. F. R. Riley. 2,664,396, Dec. 29.
Jack: *See*—
Hydraulic jack.
Joint and assembling the same. S. Fox. 2,664,320, Dec. 29.
Juice extracting device, Fruit. R. W. Walker. 2,664,042, Dec. 29.
Knitting machine, Circular. E. F. Lund. 2,664,006, Dec. 29.
Lamp: *See*—
Tipless quartz lamp.
Lamp base end contact. R. A. Kuebler. 2,664,551, Dec. 29.
Lamp base feeding mechanism, Nonintermittent. J. Bain, Jr. 2,664,186, Dec. 29.
Lamp cathode testing, Thermal inertia. R. N. Thayer. 2,664,543, Dec. 29.
Lamp socket for snap fastener engagement with an apertured support. W. H. Churchill. 2,664,549, Dec. 29.
Lamp socket having a resiliently mounted contact. C. L. Hall. 2,664,548, Dec. 29.
Lamp socket provided with means to secure it to an apertured panel. F. Howard. 2,664,550, Dec. 29.
Lapper for carbide tipped tools. K. L. Lindmark. 2,663,978, Dec. 29.
Latch retractor and housing. R. C. Cerf, Jr. 2,664,306, Dec. 29.
Lathe, Pattern. M. E. Allen, Sr. 2,664,122, Dec. 29.
Lens system, Reflecting type image forming. A. J. Kavanagh. 2,664,026, Dec. 29.
Let back means for looms, Fabric. H. B. Gosnell. 2,664,115, Dec. 29.
Letoff drive rod arm. S. O. Dodge. 2,664,113, Dec. 29.
Letoff mechanism for looms, Auxiliary beam. J. A. Bradshaw. 2,664,114, Dec. 29.
Lid construction for material spreaders. R. E. Seltzer. 2,664,221, Dec. 29.
Light fixture, Composite molded ornamental. F. L. Reynolds. 2,664,497, Dec. 29.
Lighted cooling basin for air conditioning units. M. M. Cunningham. 2,664,311, Dec. 29.
Lighter. E. G. Gessmann. 2,664,008, Dec. 29.
Lighter. R. E. Peterson. 2,664,007, Dec. 29.
Lightning arrester, Expulsion type. T. I. Eldridge, Jr., W. H. Young, and F. G. MacRae. 2,664,518, Dec. 29.
Line and valve system for fluidized particle handling. P. W. Cornell. 2,664,338, Dec. 29.
Lining rigid pipe with elastic thermoplastics. J. H. Reilly. 2,664,373, Dec. 29.
Liquid level control means. W. S. Landon. 2,664,099, Dec. 29.
Locking mechanism for restraining movement of an operating member from a preestablished position. M. Moore. 2,664,015, Dec. 29.
Locking mechanism, Hook. R. K. Hertel and G. F. Nicolson. 2,664,175, Dec. 29.
Locking mechanism, Hydraulic. R. E. Crandall, P. S. Kleven, and L. E. Baldwin. 2,664,255, Dec. 29.
Lubricant and making same. J. D. Bartleson. 2,664,202, Dec. 29.
Lubricating mechanism. W. M. Alford. 2,664,323, Dec. 29.
Lubricating oil composition of high viscosity and preparing same. R. L. Heinrich. 2,664,436, Dec. 29.
Lubricating system for the periphery of tires on landing gears for airplanes. J. H. Winterringer. 2,664,256, Dec. 29.
Lubrication and cooling of surfaces, Method of and apparatus for. H. E. Karig. 2,664,173, Dec. 29.
Machine for applying protective spots to the pads of crown caps. C. E. Magnus. 2,664,137, Dec. 29.
Machine for closing containers. G. Hammond. 2,664,060, Dec. 29.
Machine for cutting, cleaning, grooving, and treating surfaces. A. Luksch and L. Hale. 2,664,281, Dec. 29.
Machine for deveining shrimps. E. F. Greiner. 2,663,898, Dec. 29.
Machine for operating on briquettes. B. A. Brown and L. A. Erickson. 2,664,018, Dec. 29.
Machining porous metals. H. L. Wheeler, Jr. 2,663,928, Dec. 29.
Magnetic game board. W. T. Mathis. 2,663,967, Dec. 29.
Magnetic sound tape, Production of. W. C. Speed and J. J. Dwyer. 2,664,139, Dec. 29.
Making cartons for packaging of liquids, Method and apparatus for. P. E. Fischer. 2,664,034, Dec. 29.
Manganese, Manufacture of. P. F. Fabaron. 2,664,351, Dec. 29.
Manufacturing polymerized fatty acids. C. G. Goebel. 2,664,429, Dec. 29.
Master alloy comprising zirconium and magnesium for use in making magnesium-base alloys containing zirconium. W. P. Saunders and F. P. Strieter. 2,664,353, Dec. 29.
Material handling apparatus. H. A. Bottenhorn. 2,664,215, Dec. 29.
Measuring equipment, Liquid density. J. C. Boonshaft. 2,664,011, Dec. 29.
Mechanism control. D. R. Feemster and R. S. Hinsey. 2,664,014, Dec. 29.
Medicinal slipper. H. R. Lewis. 2,664,087, Dec. 29.
Metal structural member, Nailable. J. M. Gwynne. 2,664,179, Dec. 29.
Microcontrol for top out-feed planer roll. W. Veersma. 2,664,124, Dec. 29.

Mine car draft rigging. C. A. Anderson. 2,664,213, Dec. 29.
Mine service vehicle. E. M. Arentzen. 2,664,217, Dec. 29.
Mineral fiber mats and making same. T. E. Philipps. 2,664,376, Dec. 29.
Mirror, Remotely adjustable rearview. R. L. Higgins. 2,664,029, Dec. 29.
Mixer : *See*—
Cement mixer. Ultrahigh-frequency mixer.
Mold : *See*—
Superimposed multiple cavity mold.
Monomers and polymers of unsaturated thioethers. R. C. Morris and G. W. Conklin. 2,664,414, Dec. 29.
Motor : *See*—
Suction motor.
Variable speed alternating current motor.
Motor control circuit. R. T. Nakasone. 2,664,531, Dec. 29.
Motor system of wire block control, Electric. W. Few and J. D. Sauter. 2,664,529, Dec. 29.
Mount assembly for electron tubes. H. K. Ishler. 2,664,519, Dec. 29.
Mounting : *See*—
Check valve mounting. Resilient seat mounting.
Moving machine, Earth. F. D. Cahill. 2,663,953, Dec. 29.
N - (n - dodecyl) - N - (3,4 - dichlorophenethyl) - N,N - dimethyl-ammonium compounds. C. E. Kwartler. 2,664,444, Dec. 29.
N-substituted streptomycylamines. W. A. Winsten 2,664,417, Dec. 29.
Nickel plating. N. F. Blackburn. 2,664,392, Dec. 29.
Nozzle, Spray. W. M. Cissell. 2,664,314, Dec. 29.
Nut for stringed musical instruments. M. Maccaferri. 2,664,022, Dec 29.
Nut starter, Self-releasing. K. D. Clayson. 2,664,021, Dec. 29.
O-(2-chloro-4-nitrophenyl) O,O-dimethyl thiophosphate. J. H. Fletcher. 2,664,437, Dec. 29.
Oil burner filter. W. V. Czarnecki, Jr. and C. M. Czarnecki. 2,664,312, Dec. 29.
One-way clutch. O. V. Payne. 2,664,183, Dec. 29.
Optical system, Modified Schmidt-type. L. P. Raitliere. 2,664,027, Dec. 29.
Order board. T. C. Griffin. 2,664,302, Dec. 29.
Oscillograph sweep system. R. M. Page. 2,664,522, Dec. 29.
Oxidation of aromatic hydrocarbons. E. J. Lorand and J. E. Reese. 2,664,447–8, Dec. 29.
Packaging article. C. W. Vogt. 2,664,239, Dec. 29.
Paper container. R. S. Sanford. 2,663,981, Dec. 29.
Paper container. R. S. Sanford. 2,664,237, Dec. 29.
Paper storage and manifolding device. N. C. Shellman. 2,664,205, Dec. 29.
Parasiticidal lotion. A. L. Omohundro and F. M. Neumeier. 2,664,381, Dec 29.
Parasiticidal lotions. A. L. Omohundro and F. M. Neumeier. 2,664,382, Dec. 29.
Pencil sharpener. A. Guhl. 2,664,071, Dec. 29.
Pessary. W. J. Heuboski and H. T. Milgrom. 2,664,082, Dec. 29.
Photoelectrically controlled loom protection. A. C. Krukonis. 2,664,116, Dec. 29.
Pillows, Adjustable fillerless stretched. K. E. Mira. 2,663,881, Dec. 29.
Pilot operated time controlled gate valve. R. A. Spengler. 2,664,107, Dec 29.
Pin assembly, Piston wrist. M. A. Elliott. 2,664,327, Dec. 29.
Pinion cutting machine, Automatic. A. Bechler. 2,664,032, Dec. 29.
Piston ring construction. D. W. Hamm. 2,664,328, Dec. 29.
Piston rod stuffing-box gauge. W. R. Rumbaugh. 2,663,944, Dec. 29.
Pitter, Peach. J. Perrelli. 2,664,127, Dec. 29.
Plasticized halogen-containing resins. J. R. Darby and L. E. Wells, Jr. 2,664,410, Dec. 29.
Plasticized sponge material and making same. C. L. Wilson. 2,664,366–7, Dec. 29.
Plug : *See*—
Fishing plug.
Plumb line target, Surveyor's. H. W. Fatkin. 2,663,937, Dec. 29.
Pneumatic suspension system. J. A. McNally. 2,664,257, Dec. 29.
Polishing method and material. J. F. Harper. 2,663,980, Dec. 29.
Polymerization of butadiene-1,3 compounds. J. S. Sweely. 2,664,415, Dec. 29.
Portable ditch pump. L. K. Schmidt. 2,664,052, Dec. 29.
Pour-spout, Measuring-type. S. P. Radeloff and R. J. Falcone. 2,664,228, Dec. 29.
Preamplifier. W. D. Moehring and L. V. Wells. 2,664,469, Dec. 29.
Precipitating solid particles from a suspension of the particles in a liquor. A. Sablé. 2,664,349, Dec. 29.
Preserving a rubber which comprises treating the rubber with a solid resinous aralkylated dihydroquinoline antioxidant. J. R. Ingram. 2,664,407, Dec. 29.
Press : *See*—
Drawing press. Shoe press.
Pressing equipment for pile fabrics. D. M. Keast. 2,663,958, Dec. 29.
Pressing machine, Steam. W. Goldman. 2,663,954, Dec. 29.
Pressure sealed valve. W. M. Howser. 2,664,265, Dec. 29.
Pressure vessel, Jacketed. J. A. McInerney. 2,664,008, Dec. 29.
Preventing premature polymerization of resinifiable mixtures with oxalic acid. E. E. Parker. 2,664,413, Dec. 29.
Preventing the separation of pairs of socks and the like during laundering, Means for. R. J. Bohman. 2,663,877, Dec. 29.
Printing pigment colors on glass fabrics. F. G. La Piana and G. N. Houth. 2,664,365, Dec. 29.
Process and plant for the mechanical preparation of coals and minerals by washing in a plurality of chutes. A. France. 2,664,196, Dec. 29.
Producing an open mesh fabric of glass fibers. G. Slayter. 2,664,375, Dec. 29.
Producing fibers, Method and apparatus for. C. J. Stalego. 2,663,903, Dec. 29.
Production of closure seals by partially curing, shaping, and completing the cure. C. E. Maier, H. E. Brockett, and R. A. Larson. 2,663,908, Dec. 29.
Production of closure seals by partially curing a cushion material and thereafter shaping and completing the cure. C. E. Maier, H. E. Brockett, and R. A. Larson. 2,663,909, Dec. 29.
Projector, Ball. F. E. Moore. 2,664,077, Dec. 29.
Propane fractionation of reduced crude oil. B. C. Benedict. 2,664,384, Dec. 29.
Propeller pitch change mechanism. G. Östergren. 2,664,167, Dec. 29.
Protection of refractories in a reaction system from high temperatures by blanketing gases. J. S. Cromeans. 2,664,402, Dec. 29.
Protector : *See*—
Series capacitor protector.
Pulley mounting for sawing equipment of the bandsaw type. W. Krumbach. 2,664,118, Dec. 29.
Pulsator, Pneumatic. K. G. Magni. 2,664,095, Dec. 29.
Pulse-code selective communication system. K. McIlwain. 2,664,561, Dec. 29.
Pulse multiplex communication system. B. Trevor. 2,664,509, Dec. 29.
Pulverizer for rotary type lawn mowers, Leaf. K. R. Clark. 2,663,984, Dec. 29.
Pump : *See*—
Portable ditch pump. Variable delivery pump.
Pump with by-pass flow, Hydraulic. M. W. Huber. 2,664,048, Dec. 29.
Pump with pneumatic shock absorber, Fluid-operated. C. J. Coberly. 2,664,049, Dec. 29.
Pumping system and by-pass valve therefor, Hydraulic. C. J. Coberly. 2,664,102, Dec. 29.
Punching apparatus for sheet or strip material. R. H. E. Schlecht. 2,664,161, Dec. 29.
Purification of antibiotics. W. A. Lott, J. Bernstein, and L. J. Heuser. 2,664,419–20, Dec 29.
Purification of perchloromethyl mercaptan. J. Kamlet. 2,664,442, Dec. 29.
Pyrolysis of trifluorochloroethylene polymers. W. T. Miller. 2,664,449, Dec. 29.
Quartz-to-metal seal. L. R. Peters. 2,664,180, Dec. 29.
Rack : *See*—
Folding trailer drum rack. Towel rack.
Rack for drinking glasses. C. Bustamante. 2,664,207, Dec. 29.
Rack truck for rugs. L. A. Wieland. 2,664,307, Dec. 29.
Radiator bench. L. M. Carpenter. 2,663,929, Dec. 29.
Radio aid to navigation. J. Lyman and G. B. Litchford. 2,664,560, Dec. 29.
Rake. H. Biener. 2,663,987, Dec. 29.
Range apparatus. P. M. Weyrick. 2,664,493, Dec. 29.
Reaction products of an octyl acid pyrophosphate and soyamine and lubricants containing the same. W. H. Woodstock and T. M. Beck. 2,664,400, Dec. 29.
Receptacle, plug, and switch, Electrical. J. D. Harlin. 2,664,475, Dec. 29.
Recorder, Television. F. N. Gillette. 2,664,465, Dec. 29.
Recording blank, Electric signal. H. R. Dalton. 2,664,044, Dec. 29.
Recovery of oxygenated organic compounds. J. S. Cromeans. 2,664,434, Dec. 29.
Reducing ferrous chloride in liquid form to elemental iron, Process and apparatus for. F. M. Darner and C. C. Walters. 2,664,352, Dec. 29.
Reduction of the angle-modulation of amplitude-modulated oscillations. E. M. Leyton. 2,664,545, Dec. 29.
Reel holder for barbed wire. L. A. Therrien. 2,664,253, Dec. 29.
Refrigerating apparatus for transportation devices. F. W. Smith. 2,664,000, Dec. 29.
Refrigerator cabinet. C. Millman. 2,663,916, Dec. 29.
Refrigerator, Household. C. F. Alsing. 2,663,999, Dec. 29.
Regeneration of selective hydrogenation catalyst. L. J. Blatz and R. C. Brandon. 2,664,404, Dec. 29.
Reglet. L. J. Ausland. 2,664,057, Dec. 29.
Regulator of high sensitivity for regulating alternating current voltages, Automatic. G. E. Beszedics. 2,664,540, Dec. 29.
Remote-control and supervisory control system. J. A. Doremus and H. C. Waterman. 2,664,554, Dec. 29.

Removing heads from bodies of shrimps. C. A. and E. F. Greiner. 2,663,900, Dec. 29.
Repair fixture, Auto body. E. E. Makruski. 2,664,063, Dec. 29.
Resilient seat mounting. F. A. Jackson. 2,664,146, Dec. 29.
Resilient slat-seat chair. P. N. Howard. 2,664,149, Dec. 29.
Restraining device. J. A. Heymans. 2,664,083, Dec. 29.
Roller bearing with removable inner assembly, Multirow cylindrical. P. G. Palmgren and J. L. Brusca. 2,664,324, Dec. 29.
Roller bit. E. G. Boice. 2,664,322, Dec. 29.
Roller bit. W. B. Noble. 2,664,321, Dec. 29.
Rolling machine. L. B. Henderson. 2,664,019, Dec. 19.
Roof construction for tanks, Floating. H. O. Cord, B. G. Merten, and F. E. Klapheke. 2,664,220, Dec. 29.
Rotary drainage screen. A. T. Hurter. 2,664,204, Dec. 29.
Rotating spool servo valve. W. L. Parker. 2,664,097, Dec. 29.
Rotor assembly, Automatically balanced. G. Rathman. 2,664,304, Dec. 29.
Salt composition. F. G. Miller. 2,664,357, Dec. 29.
Sanding block. G. Sierchio. 2,663,979, Dec. 29.
Sash cord fastener. E. M. Trammell, Sr. and E. M. Trammell, Jr. 2,663,896, Dec. 29.
Saw attachment for tractors, Bush. C. L. Spearman. 2,664,119, Dec. 29.
Saw chain. P. Y. Hinkley. 2,664,120, Dec. 29.
Sawhorse or trestle, Collapsible. E. J. Doucette. 2,664,319, Dec. 29.
Sawing machine. H. Nusshold. 2,663,927, Dec. 29.
Scale construction, Bathroom. J. C. Sutton. 2,664,287, Dec. 29.
Screen : *See*—
Rotary drainage screen.
Screen and hanger, Fireplace. E. A. Evers. 2,664,154, Dec. 29.
Screw driver, Power. H. F. Travis. 2,664,121, Dec. 29.
Screw driver, Ratchet spiral. J. H. Mansfield and E. C. Swanson. 2,664,126, Dec. 29.
Sealing device for tubular shafting. A. Arutunoff. 2,664,271, Dec. 29.
Seat : *See*—
Child's automobile seat.
Seed germination. W. J. Hale and P. Vogelsang. 2,664,350, Dec. 29.
Selector switch. S. S. Brown. 2,664,473, Dec. 29.
Semiconductor device, Vacuum-enclosed. J. P. Stelmiak. 2,664,528, Dec. 29.
Separating enclosure for towel racks. H. B. Goodman. 2,664,208, Dec. 29.
Separation of isophthalic and terephthalic acids from their mixtures. W. G. Toland, Jr. 2,664,440, Dec. 29.
Separation of organic acids. H. S. Owens, J. B. Stark, and A. E. Goodban. 2,664,441, Dec. 29.
Separation of organic compounds. W. P. Burton and E. Solomon. 2,664,435, Dec. 29.
Series capacitor protection. E. J. Diebold. 2,664,525, Dec. 29.
Series capacitor protector. E. J. Diebold. 2,664,526, Dec. 29.
Server, Automatic individual butter. V. Palazzolo. 2,663,932, Dec. 29.
Shear coupling controlled electric switch. A. B. Collins. 2,664,476, Dec. 29.
Shift rod adjusting clamp. J. P. Hobart. 2,664,305, Dec. 29.
Shingle, Interlocking. D. B. Ronzone. 2,664,056, Dec. 29.
Shockproof dial indicator gauge. A. H. Emery. 2,663,945, Dec. 29.
Shoe press. P. J. Elkes. 2,663,885, Dec. 29.
Shoes, Making. A. E. Murray. 2,663,887, Dec. 29.
Sifter vibrated by electric motor having an unbalanced shaft, Flour. D. L. Dunn. 2,664,201, Dec. 29.
Sign device. H. W. Fuerst. 2,663,959, Dec. 29.
Signal distribution system, Electric. E. D. Goodale. 2,664,546, Dec. 29.
Signal transmission, Multiplexed. A. V. Bedford and G. C. Sziklai. 2,664,462, Dec. 29.
Signaling device, Highway. M. A. Thompson. 2,664,065, Dec. 29.
Silent valve. A. R. Stephany. 2,664,261, Dec. 29.
Skate having detachable roller assembly, Roller. E. Van Horn. 2,664,295, Dec. 29.
Skate with quickly exchangeable trucks, Rink roller. H. Kleinman. 2,664,294, Dec. 29.
Slag removal. R. A. Fausnaught. 2,664,284, Dec. 29.
Slicing machine, Vegetable. C. W. Kubon. 2,664,130, Dec. 29.
Slit mechanism. E. J. Meyer and J. L. Read. 2,664,028, Dec. 29.
Slitting, scoring, and folding machine. L. W. Rosellus. 2,664,035, Dec. 29.
Snap-on split nut. R. Mugford. 2,664,023, Dec. 29.
Softening low-carbon medium-alloy steel. J. M. Kiefer, Jr. 2,664,369, Dec. 29.
Soil sampler, Pneumatically-controlled. E. G. Knight and J. W. Miller. 2,664,269, Dec. 29.
Soldering flux. C. A. Snell, J. M. Fain, and J. A. De Rosa. 2,664,370–1, Dec. 29.
Soldering terminal for electrical wires. H. Epstein. 2,664,553, Dec. 29.
Solvent saver recovery apparatus. C. F. Dinley. 2,663,950, Dec. 29.
Spacer plate for pipes in insulated conduits. A. H. Isenberg. 2,664,112, Dec. 29.
Spool box for sewing machines. A. H. Eriksson. 2,664,059, Dec. 29.
Spring and friction shock absorbing mechanism, Combined. H. W. Mulcahy. 2,664,288, Dec. 29.
Stabilized aromatic amines. A. L. Linch. 2,664,445, Dec. 29.
Stabilizing red phosphorus against oxidation. G. F. Nordblom and M. S. Silverstein. 2,664,344, Dec. 29.
Stabilizing red phosphorus against oxidation. M. S. Silverstein. 2,664,343, Dec. 29.
Stabilizing soybean oil refined by solvent treatment. H. J. Passino. 2,664,431, Dec. 29.
Stencil recording blank and preparation. H. R. Dalton. 2,664,043, Dec. 29.
Stitch adjusting means, Zig-zag. G. Amman. 2,664,058, Dec. 29.
Stock inlet. L. Hornbostel and E. D. Beachler. 2,664,033, Dec. 29.
Stock reel speed control mechanism. J. H. Friedman. 2,664,250, Dec. 29.
Stopper for large pipe lines. F. H. Mueller and J. J. Smith. 2,664,262, Dec. 29.
Storage and utility box. T. Schmidt. 2,664,219, Dec. 29.
Strap seal. C. D. Mattingly. 2,663,923, Dec. 29.
Streptomycylamines, Production of. W. A. Winsten. 2,644,418, Dec. 29.
Stretching and setting implement, Adjustable wire. J. A. Maier. 2,664,117, Dec. 29.
Stripping of bobbins. H. Ewing. 2,663,926, Dec. 29.
Stripping rubber articles from a core, Means for. V. S. Anderson. 2,663,902, Dec. 29.
Stroller and high chair, Combined. A. L. Johnson. 2,664,144, Dec. 29.
Stylus for recorders. G. Gorham. 2,664,335, Dec. 29.
Subscriber receiver enunciator. J. R. Howland. 2,664,461, Dec. 29.
Substituted monothiosemicarbazones of diformylbenzenes. H. Schmidt, R. Behnisch, and F. Mietzsch. 2,664,425, Dec. 29.
Suction motor. W. E. O'Shei. 2,664,074, Dec. 29.
Sulfur from H_2S-hydrocarbon containing gases, Manufacture of. A. L. Kohl and C. L. Blohm. 2,664,345, Dec. 29.
Superimposed multiple cavity mold. E. Van Riper and G. W. Frey. 2,663,905, Dec. 29.
Support : *See*—
Article support. Clothesline support.
Supporting beams for bubble trays and the like. H. B. Kolin. 2,664,280, Dec. 29.
Supporting structure. J. B. O'Keefe and C. M. Igoe. 2,664,147, Dec. 29.
Switch : *See*—
Electric switch. Selector switch.
Fire alarm switch. Shear coupling controlled electric switch.
Intermittently operating direction responsive switch.
Switching means for use in telegraph systems and the like, Automatic. R. M. M. Oberman. 2,664,459, Dec. 29.
Swivel electrical connection for deep well drills. A. Arutunoff. 2,664,454, Dec. 29.
Synchronization system. N. W. Parker. 2,664,463, Dec. 29.
System for controlling the position of a shaft in its bearings. P. Gerard and H. Seranne. 2,663,977, Dec. 29.
System for obtaining nitrogen from air by adsorption of oxygen. J. A. Lawler. 2,664,171, Dec. 29.
Ti-Mn-Fe alloys. C. M. Craighead. 2,664,355, Dec. 29.
Table top and making the same, Ironing. H. E. Hortman, Jr. 2,663,957, Dec. 29.
Table with folding legs. R. M. Kraska. 2,664,329, Dec. 29.
Tank : *See*—
Antisweat flush tank.
Tape dispenser. K. Glew. 2,664,252, Dec. 29.
Tape, Measuring. W. F. Dart. 2,663,941, Dec. 29.
Telecommunication selection system, Cyclic pulse controlled. M. den Hertog. 2,664,467, Dec. 29.
Telegraph repeater system, Multiway. F. H. Hanley. 2,664,466, Dec. 29.
Television or radio cabinet base, Adjustable. H. S. Lanier. 2,664,258, Dec. 29.
Television receiving system, Color. J. H. Wiens. 2,664,520, Dec. 29.
Television system, Subscription type. E. M. Roschke. 2,664,460, Dec. 29.
Temple measure. D. F. Huston. 2,663,949, Dec. 29.
Testing and packing fixture. G. W. Caplis. 2,664,544, Dec. 29.
Textile treating composition and method. R. G. Aicklin and A. R. Munden. 2,664,409, Dec. 29.
Thermal relay and constant gap spacer. H. A. Pearl and M. A. Rudner. 2,664,481, Dec. 29.
Thermistor and heat-treating it. H. C. Colpitts. 2,664,486, Dec. 29.
Thermostat. W. C. Broekhuysen. 2,664,483, Dec. 29.
Thread gauge. C. J. Gilbert. 2,663,947, Dec. 29.
Thyratron inverter circuit. A. Bunblasky. 2,664,537, Dec. 29.
Tilling device, Rotary earth. G. E. Beard. 2,664,040, Dec. 29.
Timing device. C. Bradley. 2,664,155, Dec. 29.

Timing device, Ignition. W. P. Newsome. 2,664,012, Dec. 29.
Tipless quartz lamp. C. Wiener. 2,664,517, Dec. 29.
Tip-up device for fishing through ice. R. D. King. 2,663,962, Dec. 29.
Tire for bomb trucks. J. H. Prowinsky. 2,664,296, Dec. 29.
Toilet waters and perfumes, Color-stable. A. L. Fox and R. J. Mehaffey. 2,664,383, Dec. 29.
Tool : *See*—
Earth cutting tool.
Tool for removing tooth enamel. A. Leff. 2,663,934, Dec. 29.
Torque converter, Rotary hydraulic. E. A. Stalker. 2,663,996, Dec. 29.
Towel rack. A. J. Roger. 2,664,210, Dec. 29.
Toy, Ambulatory animal. W. A. Brodrib. 2,663,970, Dec. 29.
Toy bomber. J. V. Kellogg. 2,663,969, Dec. 29.
Trailer landing gear. E. R. Fitch. 2,664,299, Dec. 29.
Transformer bushing. J. C. Joublanc. 2,664,457, Dec. 29.
Transmission system, Rotary fluid motor. R. E. Price and H. E. Balsiger. 2,663,995, Dec. 29.
Treating fruit waste. J. R. McCaughna. 2,664,356, Dec. 29.
Tree uprooting attachment for bulldozers. W. A. Winget. 2,663,952, Dec. 29.
Triangle having a parallel line spacer, Draftsman's. L. G. Peretti. 2,663,939, Dec. 29.
Trichloromethane sulfonyl chloride, Producing. W. P. ter Horst and W. K. Cline. 2,664,443, Dec. 29.
Trimming and shaving attachment for combs, Hair. B. Di Zazzo. 2,663,930, Dec. 29.
Trimming mechanism for grinder wheels. S. G. Brady. 2,664,080, Dec. 29.
Tube : *See*—
Drainage tube.
Electrical high-vacuum discharge tube.
Tube capping apparatus. E. L. Midgley. 2,664,232, Dec. 29.
Tube for the treatment of piles or the like, Apertured. J. Hoch. 2,664,088, Dec. 29.
Turbo-machine rotor arrangement, Overhung. A. Howard. 2,664,268, Dec. 29.
Two-stage process for the catalytic reforming of gasoline. V. Haensel. 2,664,386, Dec. 29.
Typewriter mechanism, Rear-strike. H. Johnson. 2,664,184, Dec. 29.
Ultrahigh-frequency mixer. S. Roberts. 2,664,502, Dec. 29.
Universal focus sound scanning system. F. N. Gillette. 2,644,470, Dec. 29.
Universal leader connection for lures. J. K. Russell. 2,663,963, Dec. 29.
Urea and/or thiourea-aldehyde-sulfite waste liquor condensation product. R. E. Plimp and J. W. Carroll. 2,664,408, Dec. 29.
Utensil splatter lid, Cooking. R. E. Misener, J. W. Abbott, S. E. Clarke, and H. P. Woodruff. 2,664,169, Dec. 29.
Vacuo-pneumatic apparatus for separating vegetables, fruits, and/or other bodies. W. T. Pfister. 2,664,197, Dec. 29.
Vacuum corn husking unit. R. P. Morrison. 2,664,090, Dec. 29.
Vacuum street cleaner. M. A. Elliotte. 2,663,894, Dec. 29.
Valve : *See*—
Pilot operated time controlled gate valve.
Pressure sealed valve.
Rotating spool servo valve.
Silent valve.
Valve for fluid systems, Control. W. G. Nolcken. 2,663,998, Dec. 29.
Valve for hydraulic motors, Stroke-limiting control. C. B. Livers. 2,664,106, Dec. 29.
Valve for hydraulic systems, Control. M. Unterman. 2,664,105, Dec. 29.
Valve for pressure fluid systems, Automatic shutoff. C. Betancourt and L. L. Corchero. 2,664,101, Dec. 29.
Valve mechanism. C. Johnson. 2,664,266, Dec. 29.
Valve operating in response to temperature changes, Automatic. W. A. Ray. 2,664,246, Dec. 29.
Valve rotating device. A. W. Zmuda. 2,664,075, Dec. 29.
Valve rotator, Exhaust. M. V. Dadd and P. L. Vermaire. 2,664,076, Dec. 29.
Valve structure, Hydraulically balanced gate. W. A. Ray. 2,664,267, Dec. 29.
Valves for internal combustion engines. C. G. Bieber and W. F. Sumpter. 2,664,354, Dec. 29.
Variable delivery pump. M. W. Huber. 2,664,047, Dec. 29.
Variable outlet gas burner. P. F. Swenson and M. F. Pravda. 2,664,153, Dec. 29.
Variable speed alternating current motor. S. Noodleman and A. G. Wise. 2,664,534, Dec. 29.
Vehicle : *See*—
Mine service vehicle.
Vehicle body construction. W. D. Appel. 2,664,308, Dec. 29.
Vehicle drier. E. B. Kennison. 2,663,951, Dec. 29.
Vending machine. H. T. Probasco. 2,664,227, Dec. 29.
Vending machine, Pencil. A. Schupp. 2,664,330, Dec. 29.
Venoclysis equipment. G. R. Ryan. 2,664,085, Dec. 29.
Vibrator assembly, Weatherproof. C. N. Williamson. 2,664,455, Dec. 29.
Vinyl halide polymerization with cyclic catalyst. H. F. Park. 2,664,416, Dec. 29.
Visualized race track gate circuit. P. Sierer and N. J. Waterbury. 2,664,559, Dec. 29.
Washing glove with water supply means, Car. A. E. Sullins. 2,663,890, Dec. 29.
Waste disposal device. H. Jordan. 2,664,247, Dec. 29.
Water-dispersible phenothiazine preparation. D. E. Vierling. 2,664,380, Dec. 29.
Water service fixture. J. K. Murdock, E. Le Roy, and H. F. Oswald. 2,664,096, Dec. 29.
Water-soluble 9-arylaminoanthraquinone derivatives. D. I. Randall and E. E. Renfrew. 2,664,427, Dec. 29.
Water-soluble cellulose ethers, Manufacture of. J. Downing and J. G. N. Drewitt. 2,664,422, Dec. 29.
Waterer, Stock. C. H. Nelson. 2,664,070, Dec. 29.
Wave length indicator in spectral apparatus. G. Hansen. 2,664,024, Dec. 29.
Weight deviation testing device. J. A. Sargrove. 2,664,557, Dec. 29.
Well logging apparatus, Magnetic. R. D. Lynn. 2,664,542, Dec. 29.
Well packer. J. Gannon. 2,664,164, Dec. 29.
Wheel : *See*—
Composition roller skate wheel.
Wheel camber and caster adjusting mechanism. J. H. Booth. 2,664,297, Dec. 29.
Wheel cover. G. A. Lyon. 2,664,318, Dec. 29.
Wide-band direct-current repeater. D. Richman. 2,664,471, Dec. 29.
Window structure. G. D. Peterson. 2,663,917, Dec. 29.
Work feed device for woodworking tools. G. O. Arvidson. 2,664,123, Dec. 29.
Wrench for use in confined spaces, Gear operated pancake-type. F. J. De Note. 2,664,020, Dec. 29.
Yarn cone and tube winder. T. L. Wright. 2,664,249, Dec. 29.

CLASSIFICATION OF PATENTS

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NOTE.—First number = class, second number = subclass, third number = patent number.

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CLASSIFICATION OF DESIGNS

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REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,648,049. Electric Lamp Socket. Patented Aug. 4, 1953. An electric lamp socket or holder constructed to allow the easy insertion or removal of a lamp bulb, thereby eliminating the process of screwing the bulb into or out of the socket. Hot bulbs can be quickly and easily removed from the lamp socket without having to use pressure to detach them and without burning the fingers. This item is of simple construction and can be made at little expense. (Owner) George D. Brayman, % L. S. Saulsbury, 55 West 42d St., New York 36, N. Y. Group 36—11. Reg. No. 52,259.

Pat. 2,510,656. Partition and Support Therefor for Beds. Patented June 6, 1950. A partition and base therefor to be positioned between the pillows of a double bed to keep the breathing areas of the occupants separated. The base has a pair of wing-like side extensions and forms a support upon which a vertically extending partition is centrally mounted and held in position by a snap fastener. The partition has a forward extension forming an arcuate-shaped recess to receive the edge of a top sheet or blanket. When not in use, the partition is unsnapped to lie flush with the base, and the device may be positioned under the pillows. May be made of plywood, plastic, or the like, and painted to blend with various color schemes. (Owner) Grace H. Randel, 248 90th St., Brooklyn 9, N. Y. Groups 25—99; 39—81; 40. Reg. No. 52,260.

Pat. 2,643,057. Slide Rule. Patented June 23, 1953. Slide rule consists of a scaled barrel and a scaled rod reciprocatably and rotatably retained in the barrel. The barrel is bored along one of its faces to eccentrically receive the rod, and surrounds a majority of the perimeter of the rod, leaving scaled portions of the rod exposed. The rod and barrel have arcuate scaled surfaces of different respective arc radii. An expandible multi-arced index resiliently embraces the exposed scale portions of the rod and the scaled surfaces of the barrel. The barrel contains automatic adjusting and compensating means to overcome adverse effects of changing weather conditions. Modified forms of the invention are disclosed. (Owner) Michael J. Quillinan, 87—10 37th Ave., Queens, L. I., New York, N. Y. Groups 35—79; 40. Reg. No. 52,261.

Pat. 2,643,058. Slide Rule. Patented June 23, 1953. Slide rule comprises an elongated triangular-prismatic scaled housing having three faces with an elongated open channel in one face, in which a scaled polygonal prismatic slide is reciprocatably and rotatably retained. The exposed scaled surface of the slide is flush with the channeled face of the housing. The other two faces of the housing are each formed with a longitudinal groove to alternately receive an indentation in the inner surface of one of the sides of an angular expandible transparent index. The index may be releasably secured to the housing to resiliently embrace the channeled face and the exposed scale surface of the slide and either the second or third face of the housing by flexing the index and inserting the indentation in one of the grooves. The housing contains automatic adjusting and compensating means to overcome adverse effects of changing weather conditions. Modified forms of the invention are disclosed. (Owner) Michael J. Quillinan, 87—10 37th Ave., Queens, L. I., New York, N. Y. Groups 35—79; 40. Reg. No. 52,262.

Pat. 2,646,097. Automobile Cover. Patented July 21, 1953. Automobile cover designed to cover substantially the entire body of a vehicle may be folded and rolled away in compact form in a spring casing attached to the rear bumper of the vehicle. The cover will protect the vehicle from damage by the elements, namely, rain, sleet, snow, sun, thus protecting the paint and finish of the vehicle. The shape of the cover consists of a central rectangular portion having two centrally positioned rectangular portions on its sides of smaller dimension, and gore portions at each end adjacent the smaller rectangular portions affording openings between the gore portions and the centrally positioned smaller rectangular portions, the openings being closed, or opened, by slide fasteners to form a cover which will configuratively fit and cover the body of the vehicle. Ropes are provided which reenforce the cover perimetrically and which facilitate securing the cover to the front bumper of the vehicle, it being held tautly at the rear by the spring casing from which the cover emanates. (Owners) Delbert R. Gaverth and Albert Erickson. Correspondence to Albert Erickson, 4016 Cullom Ave., Chicago, Ill. Groups 23—95; 30—41; 39—81. Reg. No. 52,263.

United States Government Owned Patents

The following 25 patents (Granted under Title 35, U. S. Code (1952), Sec. 266) are assigned to the United States as represented by the Secretary of Agriculture. Licenses to practice the inventions are issued on a royalty-free non-exclusive, non-transferable, revocable basis.

Applications for licenses should be addressed to the Bureau of Agricultural and Industrial Chemistry, U. S. Department of Agriculture, Washington 25, D. C.

Pat. 2,598,729. Preparation of Drying Oils. Patented June 3, 1952. Long chain fatty acid esters, containing substituted halogens (chlorinated soybean oil or chlorinated methyl oleate) in which the halogens are attached to non-adjacent carbon atoms, are dehydrohalogenated by treatment with salts of weak acids (sodium bicarbonate) to produce unsaturated products possessing a high proportion of conjugated olefinic linkages. The product possesses improved drying properties. Group 28—22. Reg. No. 52,264.

Pat. 2,601,746. Apparatus for Cleaning Cans. Patented July 1, 1952. Cans, such as milk cans, are cleaned in an apparatus which blasts the surfaces with soft grits. The grits may be ground corncobs, rice hulls, or nut shells. The can is placed in an enclosed space where it revolves and is subjected to cleaning blasts from vertically moving nozzles, situated so as to blast the inner and outer surfaces. Group 35—51. Reg. No. 52,265.

Pat. 2,602,768. Process for the Manufacture of Sodium Gluconate. Patented July 8, 1952. Sodium gluconate is produced directly by fermentation of glucose media. The acidity of the media is controlled between the pH 5.0 and 7.5 by adding increments of a sodium base. Sodium gluconate is recovered from the fermentation liquor by evaporation and crystallization. Group 28—89. Reg. No. 52,266.

Pat. 2,603,156. Shock-Resistant Product. Patented July 15, 1952. Hairlike, springy plant-fiber bundles are prepared from annual plant material such as wheat straw by cutting into lengths of about one inch, softening in water, and then subjecting to a rubbing action to form fiber bundles having the approximate thickness of animal hair. The product may be mixed with hydrated paper-making fibers and pressed into shape to form a shock resistant board. Boards containing 65 to 70 percent hairlike plant fibers and the remainder paper-making pulp may be used for making shot gun shell wads. The density of the boards may be varied over a wide range, dependent upon the degree of pressing during the molding operation. Group 26—11. Reg. No. 52,267.

Pat. 2,605,186. Stabilization of Glyceride Oils With Acetone Dicarboxylic Acid. Patented July 29, 1952. Glyceride oils are stabilized against oxidative deterioration and the development of off-flavors and odors by the addition of a small amount (0.01 percent) of acetone dicarboxylic acid. The stabilizer may be added at any time during the treatment of the oil. Good results are obtained by adding it after the deodorization step, while the oil is cooling. Group 28—41. Reg. No. 52,268.

Pat. 2,607,797. N,2-Carboalkoxyethyl Derivatives of Alpha-Amino Acids and of Acylated Alpha-Amino Acids. Patented Aug. 19, 1952. A new class of esters of dibasic amino acids is made from cyanoethylated amino acids by alcoholysis of the nitrile group. The amino acid starting material may be any of the natural or synthetic amino acids such as glycine, tyrosine, leucine, aspartic acid, methionine or mixtures of amino acids such as obtained as a byproduct from the manufacture of monosodium glutamate. After cyanoethylation with acrylonitrile, the acids are reacted with an alcohol to form the diester. The products are useful in the production of plastics and pharmaceuticals. Group 28—31—83. Reg. No. 52,269.

Pat. 2,608,723. Process for the Production of Amylose Films. Patented Sept. 2, 1952. Self-supporting films, suitable for wrapping, are prepared from amylose or from starch mixtures consisting predominantly of amylose. Amylose, or starch mixture containing it, is mixed with an aqueous solution of an amylose complexing agent having appreciable solubility in water (butanol) and the mixture heated to form a clear solution. The complexing agent is then removed, as by azeotropic distillation, and the remaining solution is cast upon a smooth surface and dried. The casting solution may also contain plasticizers, dyes, fillers, and the like, and the film-forming operation may involve spraying or dip-coating instead of casting. Group 28—99. Reg. No. 52,270.

Pat. 2,610,153. Skin Cleaning Composition. Patented Sept. 9, 1952. Residual soybean meal, obtained as a byproduct from commercial extraction of oil from soybeans, is treated with formaldehyde and ground to about 20 mesh size or smaller. This material is utilized as a mild abrasive in skin cleaning compositions, such as hand soap. Group 28—41. Reg. No. 52,271.

Pat. 2,610,931. Slurry Adsorption Separation and Fractionation of Sugars. Patented Sept. 16, 1953. Aqueous solutions containing a mixture of sugars difficult to separate are fractionated by contact with adsorbent carbon. A slurry is made with the finely divided carbon, sufficient carbon being used to adsorb all sugars present except glucose, the more difficultly separable sugars being adsorbed collectively. The sugars are recovered from the carbon by displacement with phenol acetic acid, or ephedrine. Group 28—89. Reg. No. 52,272.

Pat. 2,617,755. Antibiotic Production From *Streptomyces Grisco-Carneus*. Patented Nov. 11, 1952. *Streptomyces grisco-carneus*, a microorganism recently isolated from the soil, is cultivated to produce a streptomycin-like antibiotic. Group 28—31. Reg. No. 52,273.

Pat. 2,626,951. Stabilization of Glyceride Oils With Starch Phosphates. Patented Jan. 20, 1953. The oxidative stability of vegetable oils is increased by the addition of small amounts of starch phosphates. Group 28—89. Reg. No. 52,274.

Pat. 2,627,516. Activation and Esterification of Amylaceous Polysaccharides. Patented Feb. 3, 1953. Starch organic esters are produced by activating the starch prior to esterification by heat treatment with pyridine or picoline. Group 28—99. Reg. No. 52,275.

Pat. 2,630,397. Method of Bonding Sheet Materials and Coating Compositions Therefor. Patented Mar. 3, 1953. Polyamides are made by the chemical reaction of polymeric fat acids with certain diamines. The fat acids are obtained from vegetable oils, such as soybean oil. The product is useful in coating compositions and in adhesives. Of particular value are coating compositions possessing heat sealing properties and possessing properties of markedly reduced moisture-vapor transfer. Group 28—89. Reg. No. 52,276.

Pat. 2,631,379. Method for the Preparation of Undevitalized Wheat Gluten. Patented Mar. 17, 1953. Wheat gluten, as it occurs in process for separating wheat starch, is difficult to dry satisfactorily because of its sticky character. According to this process a ribbon of 0.030 inch thickness is passed through a chamber in contact with air heated to 150° to 200° F. and dried to a moisture content of 4 percent to 7 percent. The dried ribbon has an acetic acid solubility of 70 percent to 75 percent and is suitable for pulverizing and packaging. Group 28—94. Reg. No. 52,277.

Pat. 2,635,094. Preparation of Proteinaceous Soybean Material Using Isopropanol. Patented Apr. 14, 1953. Gelsoy, a gelable protein substance from soybeans, is prepared by washing hexane extracted flakes with isopropanol and subsequently extracting the washed flakes with water. Group 28—23. Reg. No. 52,278.

Pat. 2,635,943. Sterilization of Starch Sponge. Patented Apr. 21, 1953. Starch sponge, useful in internal surgical dressings, is sterilized by conventional steam procedure. It is prevented from reverting to a horny state by drying immediately to a state of crispness. Group 39—16. Reg. No. 52,279.

Pat. 2,636,887. Antioxidant for Fats and Fatty Oils. Patented Apr. 28, 1953. New chemical compounds, namely, the long-chain fatty acid esters esterified with citric acid of the 2-hydroxyl group are found to be effective stabilizing agents against autoxidation and flavor deterioration of fatty oils, particularly soybean oil. The compounds have a stabilising effect similar to that of citric acid and have the additional advantage of greatly increased fat solubility. Group 28—89. Reg. No. 52,280.

Pat. 2,636,889. Modified Soybean Lecithin. Patented Apr. 28, 1953. The dispersing properties of crude soybean lecithin are improved by reaction with an organic isocyanate, such as phenyl isocyanate or hexamethylene diisocyanate. The reaction is carried out at temperatures above 50° C. until the odor of isocyanate disappears from the reaction mixture. The products are generally waxy or granular in character, and form stable dispersions in water. Group 28—23. Reg. No. 52,281.

Pat. 2,637,632. Apparatus for Conducting Histochemical Reactions. Patented May 5, 1953. The invention relates to a device for treating small fragile specimens in liquid media. It is a clamp-like device designed to hold securely a small reaction vessel and to protect it from injury. The vessel is held on a platform upon which a movable cover plate is pressed, the cover plate containing apertures for the addition or removal of liquid. Group 35—59. Reg. No. 52,282.

Pat. 2,637,727. N-(3,4,6-Triacetyl-D-Glucosyl) Piperidine and Method of Preparing Same. Patented May 5, 1953. Crystalline N-(3,4,6-triacetyl-D-glucosyl) piperidine was isolated from the reaction of piperidine with pentaacetyl-D-glucopyranose. This new compound provided an easily prepared intermediate for the synthesis of 2-substituted glucose derivatives. Group 28—31. Reg. No. 52,283.

Pat. 2,641,593. Polyamide Resins. Patented June 9, 1953. Unsaturated higher fatty acids or esters, and especially "monomeric distillate" are utilized as raw materials in the manufacture of synthetic resins. The process also utilizes citraconic and itaconic anhydrides. The resins are useful in coating compositions. Group 28—83. Reg. No. 52,284.

Pat. 2,642,745. Method for Determining Bran in Cereal Flour. Patented June 23, 1953. Bran and germ particles are rendered easily visible by treating cereal flour or flour products with Crystal Violet solution. The treatment is followed by an alkaline decolorizing step. The alkaline step disperses and decolorizes starch, protein, and similar materials, while bran and germ particles remain colored. The colored particles may be collected on a white filter paper and the degree of refining determined by visual examination. Group 20—41. Reg. No. 52,285.

Pat. 2,643,213. Method for the Production of Vitamin B_{12} by *Streptomyces Olivaceus*. Patented June 23, 1953. *Streptomyces olivaceus* is cultivated in a nutrient medium containing assimilable carbon such as glucose or sucrose, assimilable nitrogen such as distillers' solubles or protein meal, and a soluble salt of cobalt. At the end of the fermentation (approximately two to three days) the medium contains relatively large recoverable amounts of vitamin B_{12}. The concentrated culture liquor may be used to fortify feed or food material. Group 28—31. Reg. No. 52,286.

Pat. 2,645,587. Method of Making Lignocellulose Pressure Molded Article. Patented July 14, 1953. Agricultural residues are mixed with a minor amount of thermoplastic resin such as resin, Vinsol, etc., and thermally treated to make a molding composition. The molded products are hard, strong, and highly water resistant. Group 28—83. Reg. No. 52,287.

Pat. 2,645,648. Stabilization of Glyceride Oils With Oxydialkanoic Acids. Patented July 14, 1953. The oxidative stability of glyceride oils, such as soybean oil, is increased by the addition of small amounts of oxydialkanoic acids. Group 28—23. Reg. No. 52,288.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 29, 1953

[VOL. 677. No. 5]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 621,800. Angelo Bros. Limited, Calcutta, India. Filed Nov. 29, 1951.

INSTAN

Applicant claims ownership of British Registration No. 682,882, dated June 15, 1951.

For Cut Shellac, Shellac Flakes and Chunks, and Lacs in the Form of Raw and Partly Prepared Materials for Use in Industry in the Further Manufacture of Articles and Materials.

Ser. No. 638,547. Northrup, King & Co., Minneapolis, Minn. Filed Nov. 24, 1952.

NORTHERN KING

For Early Seed Corn for Northern Areas.
Claims use since August 1952.

Ser. No. 640,496. W. D. Byron & Sons of Maryland, Inc., Williamsport, Md., now by change of name W. D. Byron & Sons, Inc. Filed Jan. 8, 1953. (Sec. 2f.)



For Leather.
Claims use since in the year 1929.

Ser. No. 648,609. Lustre Fibres, Inc., New York, N. Y. Filed June 11, 1953.

COLORAMA

For Viscose Staple Fiber.
Claims use since Apr. 17, 1953.

Ser. No. 648,611. Lustre Fibres, Inc., New York, N. Y. Filed June 11, 1953.

FIBROFAST

For Viscose Staple Fiber.
Claims use since Apr. 17, 1953.

CLASS 2

RECEPTACLES

Ser. No. 620,816. Roy F. Nylen, Chicago, Ill. Filed Nov. 2, 1951.

Stocking Stik.

No claim is made to the use of the word "Stocking" except in combination with the word "Stik" in the mark as shown.

For Plastic Cylinders for Visible Packaging of Stockings.
Claims use since Sept. 11, 1951.

Ser. No. 626,494. The Chatfield & Woods Sack Company, Cincinnati, Ohio. Filed Mar. 15, 1952. (Sec. 2f.)



Applicant claims ownership of Registration No. 330,130.
For Paper Sacks for Packaging Coal.
Claims use since November 1936.

Ser. No. 633,211. Rose R. Newgren, Gates Mills, Ohio. Filed July 29, 1952.

MOUSE PARTY HOUSE

No claim is made to the word "Mouse" apart from its use in the mark as shown.
For Boxes for Holding Rodent Poisons.
Claims use since Mar. 4, 1952.

Ser. No. 633,409. Carol Beatty Company, Los Angeles, Calif. Filed Aug. 2, 1952.

Treasure Dome

The word "Dome" is disclaimed apart from the mark as a whole.
For Dome Shaped Transparent Plastic Case Over a Circular Base for Holding Watches, Medals, and the Like.
Claims use since May 19, 1952.

Ser. No. 635,322. Rheinische Rohrenwerke Aktiengesellschaft, Mulheim (Ruhr), Germany. Filed Sept. 16, 1952.



Applicant claims ownership of German Registration No. 613,906, dated Nov. 14, 1951.
For Metal Shipping and Storage Containers—Namely, Metal Shipping and Storage Tanks.

Ser. No. 636,967. Frank W. Broderick, Summit, N. J. Filed Oct. 22, 1952.



For Display Box Cardboard Cartons.
Claims use since May 1, 1952.

Ser. No. 644,644. Sutherland Paper Company, Kalamazoo, Mich. Filed Apr. 2, 1953.

FORESTFRESH

For Collapsible Cartons Made of Pulp Board.
Claims use since on or about Dec. 18, 1951.

Ser. No. 646,732. Bell-Cox Corporation, Los Angeles, Calif. Filed May 11, 1953.



The word "Silver" is disclaimed apart from the mark as shown.
For Plastic Compartmented Bags for Silverware.
Claims use since Mar. 21, 1953.

Ser. No. 648,110. The Lambert Company, Jersey City, N. J., and Northampton, Mass. Filed June 2, 1953.

PROLON

Applicant claims ownership of Registrations Nos. 389,231, 423,702, and 441,748.
For Plastic Dinner Hollow Ware.
Claims use since September 1950.

Ser. No. 648,306. Jaxton Manufacturing Corporation, Glens Falls, N. Y. Filed June 5, 1953.

BEER BUTLER

No claim is made to the exclusive use of the word "Beer" apart from the mark as shown.
For Wooden Trays for Household Use for Serving Food and Beverages.
Claims use since Mar. 4, 1953.

Ser. No. 648,369. Cesco Container Company, New York, N. Y. Filed June 8, 1953.

CESCOAT

Applicant claims ownership of Registrations Nos. 530,540 and 548,800.
For Metal and Wooden Boxes and Crates for Milk Bottles or Milk Paper Receptacles.
Claims use since Apr. 20, 1953.

Ser. No. 648,420. Mid-States Gummed Paper Co., Chicago, Ill. Filed June 8, 1953.

BOX-POP

No claim is made to the word "Box" apart from the mark as shown in the drawing.
For Corrugated Paper Cartons for Use in Shipping.
Claims use since Mar. 30, 1953.

Ser. No. 648,423. Outboard, Marine & Manufacturing Company, Waukegan, Ill. Filed June 8, 1953.

Cruis-a-Day

For Auxiliary Fuel Tank.
Claims use since Apr. 6, 1950.

Ser. No. 649,599. The Lambert Company, Jersey City, N. J., and Northampton, Mass. Filed June 30, 1953.

Florence

For Plastic Dinner Hollow Ware.
Claims use since June 11, 1953.

CLASS 5

ADHESIVES

Ser. No. 633,478. American Reenforced Paper Company, Attleboro, Mass. Filed June 19, 1952. (Sec. 2f.)



Applicant claims ownership of Registration No. 327,856.
For Gummed Box Stay Strips.
Claims use since May 15, 1934.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 631,460. Bradford Chemical Company, Inc., Bradford, Pa. Filed June 20, 1952.

PUR-O-SAN

For Water Treating Compound in the Nature of a Germicide and Wetting Agent.
Claims use since Aug. 1, 1949.

Ser. No. 639,601. American Agile Corporation, Maple Heights, Ohio. Filed Dec. 17, 1952.

AGILENE

For Polyethylene.
Claims use since January 1950.

Ser. No. 639,602. American Agile Corporation, Maple Heights, Ohio. Filed Dec. 17, 1952.

AGILIDE

For Polyvinyl Chloride.
Claims use since January 1950.

Ser. No. 641,453. L. H. Lincoln & Son, Inc., Coudersport, Pa. Filed Jan. 28, 1953.

KRO-PLEX

For Material for the Impregnation of Water Sands in Gas and Oil Wells, or for Soil or the Like, and Controllable as to Hardness and Setting Time for Forming a Water Impervious Mass Therein or Therewith.
Claims use since Apr. 16, 1949.

Ser. No. 642,652. Hydropulser Corporation, Oak Park, Ill. Filed Feb. 24, 1953.

BROMICIDE

For Bactericide for Use in Aqueous Solution in the Dairy, Beverage, and Food Industries.
Claims use since Feb. 2, 1953.

Ser. No. 645,580. The Master Builders Company, Cleveland, Ohio. Filed Apr. 20, 1953.

KONDUCTOKURE

Applicant claims ownership of Registration No. 385,340.
For Membrane Curing Compound for Curing and Protecting Concrete Floors.
Claims use since Dec. 17, 1952.

Ser. No. 646,646. James Austin Company, Mars, Pa. Filed May 8, 1953. (Sec. 2f as to "Austin's.")



The words "Safe Bleach" are not claimed apart from the rest of the mark. The drawing is lined for red. Applicant claims ownership of Registration No. 384,960.
For Bleach for Textile Fabrics.
Claims use since Sept. 11, 1952.

Ser. No. 646,966. Vineland Poultry Laboratories, Vineland, N. J. Filed Apr. 27, 1953. (Sec. 2f.)

HI-LETHOL 10

For Germicide and Deodorant for Industrial and Household Use.
Claims use since on or about Jan. 10, 1948.

Ser. No. 647,285. The Fuller Brush Company, Hartford, Conn. Filed May 19, 1953.

FUL-AIRE

No claim is made to the word "Aire" apart from the trade-mark as shown in the drawing.
For Air Deodorant.
Claims use since on or about Jan. 31, 1951.

Ser. No. 648,556. National Association of Soft Water Service Operators, Chicago, Ill. Filed June 10, 1953.

ANCOR

For Adjuvant to Ion Exchange Water Softening Agents.
Claims use since Nov. 10, 1952.

Ser. No. 648,615. Metal & Thermit Corporation, New York, N. Y. Filed June 11, 1953.

THERMOLITE

For Stabilizer for Chlorine-Containing Resin.
Claims use since on or about Jan. 23, 1953.

Ser. No. 648,619. S. B. Penick & Company, New York, N. Y. Filed June 11, 1953.

PENRESINA

For Powdered Rosin With Diluent for Use in Grease Compounds, Polishes, Athletic Supplies, Cleaning Compounds, Disinfectants, Paper Coatings, Printing Inks, Paints, Match Compositions, Lubricants, Ointments, Plasters, and Soaps.
Claims use since May 25, 1953.

Ser. No. 648,620. Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Filed June 11, 1953.

10-20

For Herbicides.
Claims use since June 15, 1949.

Ser. No. 648,621. Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Filed June 11, 1953.

C4 STRIPE

For Herbicides.
Claims use since Mar. 15, 1953.

Ser. No. 648,622. Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Filed June 11, 1953.

D-4

For Herbicides.
Claims use since Feb. 15, 1953.

Ser. No. 648,623. Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Filed June 11, 1953.

GX

For Insecticides.
Claims use since Feb. 20, 1953.

Ser. No. 648,671. Heyden Chemical Corporation, New York, N. Y. Filed June 12, 1953.

CLORMATIC

For Dyeing Assistants for Use in Dyeing Fabrics and Fibers.
Claims use since on or about Feb. 3, 1953.

Ser. No. 648,689. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed June 12, 1953.

ACTIDIP

For Chemical Agent for Preparing Metal Surfaces for Chemical Coating and Component Ingredients for Such Agent.
Claims use since Jan. 20, 1953.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 587,186. Ecko Products, Inc., Detroit, Mich., assignee of Russell Eckenboy, Detroit, Mich. Filed Nov. 2, 1949.

Sport-Pak

The word "Pak" is disclaimed apart from the mark as herein used.
For Cigarette Cases.
Claims use since Oct. 22, 1949.

CLASS 10

FERTILIZERS

Ser. No. 642,633. Alphonse M. Golke, doing business as A. M. Golke Company, Greendale, Wis. Filed Feb. 24, 1953.



Applicant claims ownership of Registration No. 304,479.
For Plant Food.
Claims use since June 5, 1951.

Ser. No. 649,978. Allied Chemical & Dye Corporation, New York, N. Y. Filed July 8, 1953.

SODAN

For Synthetic Fertilizer.
Claims use since June 3, 1953.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 649,448. Underwood Corporation, New York, N. Y. Filed June 26, 1953.

MONOGRAM

Applicant claims ownership of Registration No. 297,112.
For Carbon Paper and Inked Ribbons.
Claims use since in the year 1911.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 621,632. Oregon Lumber Company, Baker, Oreg. Filed Nov. 24, 1951. (Sec. 2f.)

allwood

Applicant disclaims "Prestpanel" apart from the mark as shown except the common law rights attached thereto.
For Compressed natural Wood Fibers in Flat Sheet Form Used as a Structural Material.
Claims use since Oct. 6, 1951.

Ser. No. 629,618. Oregon Lumber Company, Baker, Oreg. Filed May 13, 1952. (Sec. 2f.)

allwood

For Compressed Natural Wood Fibers in Flat Sheet Form Used as a Structural Material.
Claims use since Oct. 6, 1951.

Ser. No. 630,617. Ray Proof Corporation, New York, N. Y. Filed June 2, 1952. (Sec. 2f.)

RAY PROOF

Applicant claims ownership of Registration No. 309,181.
For Structural Materials and Sub-Structures for Buildings and Parts of Buildings, Particularly for Wall and Window Elements, and Especially for the Purpose of Minimizing the Passage of X-Rays and Light Rays, and Accessories Therefor—Namely, Door Frames, Door Saddles and Sills, Film Pass Boxes for Built-In Structural Installation, Industrial Booths, Light Proof Shades, Light Proof Door Seals, Light Proof Vents, Louvers, Protective Screens, Plaster, Shutters, Steel and Lead Fabricated Panels, Sliding Doors and Panels, Sliding Light Proof Shutters, X-Ray Shielding Glass, Lead Shielded Bolts and Lead Shielded Nails Sold With the Foregoing.
Claims use since on or about Nov. 15, 1930.

Ser. No. 633,372. Manufacturers Reserve Supply, Inc., Irvington, N. J. Filed Aug. 1, 1952.

CRAFTRIM

For Shingles and Processed Shakes.
Claims use since Apr. 1, 1927.

Ser. No. 636,718. Light Weight Mortar, Inc., Big Flats, N. Y. Filed Oct. 16, 1952.

LATTA-BOND

The word "Bond" is disclaimed apart from the mark as shown.
For Mortar, Ready Mortar Mix, Plaster, Cement, Cement Aggregates, and Mortar Ingredients.
Claims use since on or about Sept. 15, 1952.

Ser. No. 638,560. Oscar W. Wahlstrom, Alma, N. C. Filed Nov. 24, 1952.

SYNTRE

For Plywood, Veneer, and Lumber Core.
Claims use since Sept. 15, 1952.

Ser. No. 639,179. Kentile, Inc., Brooklyn, N. Y. Filed Dec. 8, 1952.

KENTILE
The Asphalt Tile of Enduring Beauty

The word "Tile," the representation of the goods, and the term "The Asphalt Tile of Enduring Beauty" are disclaimed apart from the mark shown. Applicant claims ownership of Registrations Nos. 344,245, 396,155, and others.
For Asphalt Floor Tile.
Claims use since May 5, 1950.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 632,782. Adolph J. Gottstein, Woodbridge, N. J. Filed July 19, 1952.

N-E-CASE

For Adjustable Lifting and Carrying Handle for Cases and Similar Containers.
Claims use since June 17, 1952.

Ser. No. 639,681. The Vichek Tool Company, Cleveland, Ohio. Filed Dec. 17, 1952.

TRANS-FLO

For Hose Nozzles.
Claims use since Nov. 19, 1952.

Ser. No. 640,087. Sterling Hardware Manufacturing Company, Chicago, Ill. Filed Dec. 27, 1952. (Sec. 2f as to "Sterling.")

Sterling HARDWARE

Applicant disclaims the right to the exclusive use of the word "Hardware" apart from the mark as shown. Applicant claims ownership of Registration No. 561,190.
For Various Items of Builders' Hardware—Namely, Door Hangers, Door Tracks, Door Stops, Door Latches, Door Pulls, Door Guides, Door Guide Strips, Window Operators, Window Hinges, Window and Door Closers, Window and Door Friction Stays, Storm Sash Adjusters, Transom Operators.
Claims use since on or about Jan. 1, 1949, on the mark as shown; and since Jan. 1, 1939, as to "Sterling."

Ser. No. 643,855. Pulverizing Machinery Company, Summit, N. J. Filed Mar. 18, 1953.

MIKRO-AIRLOCK

No claim is made to the word "Airlock" apart from the mark. Applicant claims ownership of Registrations Nos. 277,258, 419,318, and others.

For Rotary Discharge Valve for Air Filters.

Claims use since on or about Feb. 4, 1953.

Ser. No. 646,976. R. E. Anderson, doing business under the trade name of Sto-A-Way Company, Aurora, Ill. Filed May 14, 1953.

"Bowl-er"

For Metal Stand for Holding the Upper Part of a Vacuum-Type Coffee Maker.

Claims use since Mar. 1, 1953.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 629,811. Ohio Ferro-Alloys Corporation, Canton, Ohio. Filed May 16, 1952.



The words "Dependability," "Brand," "Quality" and "Service" are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 327,777, 401,294, and others.

For Ferro-Alloys—Namely, Ferro-Silicon, All Grades; Ferro-Chrome; Ferro-Manganese; Silico-Manganese; Silicon Metal; Ferro-Chrome-Silicon; Manganese Briquets; Chromium Briquets; Ferro-Chrome Briquets; Silico-Manganese Briquets; Silicon-Manganese-Aluminum-Iron Alloy; Boron-Silicon-Iron Alloy; and Calcium Silicon.

Claims use since Oct. 12, 1951.

Ser. No. 635,542. Metals & Controls Corporation, Attleboro, Mass. Filed Sept. 20, 1952.

BONDWICH

For Laminated Metals in Sheet and Strip Form.

Claims use since on or before Aug. 4, 1952.

CLASS 15

OILS AND GREASES

Ser. No. 625,304. Staats Oil Company, Malvern, Pa. Filed Feb. 20, 1952. (Sec. 2f.)

STAATS

For Fuel Oil, Kerosene, and Gasoline.

Claims use since in or about September 1929.

Ser. No. 638,031. H. K. Stahl Company, St. Paul, Minn. Filed Oct. 29, 1952.



The portrait upon the drawing is fanciful. The words "100% Pure Pennsylvania Oil," and "Penn" are disclaimed apart from the mark.

For Petroleum Products—Namely, Lubricating Oils and Greases.

Claims use since Jan. 1, 1932.

Ser. No. 642,914. R. T. Vanderbilt Company, Inc., New York, N. Y. Filed Feb. 27, 1953.

VANLUBE-10

Applicant claims ownership of Registration No. 439,099.

For Additive Used as an Anti-Oxidant in Lubricants.

Claims use since Feb. 10, 1953.

Ser. No. 645,947. Battenfeld Grease & Oil Corp., Kansas City, Mo. Filed Apr. 27, 1953.

1144

For Lubricating Oils and Greases.

Claims use since Apr. 14, 1941.

Ser. No. 646,064. H. Gafney, New York, N. Y. Filed Apr. 28, 1953.



For Motor Oil.

Claims use since June 1, 1951.

Ser. No. 646,268. James H. Carmean, doing business as Hornol Processing Company, Liberty, Mo. Filed May 1, 1953.

SLIDOL

For Lubricant for Musical Instruments.

Claims use since Apr. 21, 1953.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 624,436. Martin Varnish Company, Chicago, Ill. Filed Dec. 19, 1951. (Sec. 2f.)



The relatively dark-colored diagonal bands are lined to represent the color red. Applicant makes no claim by reason of this registration to the design of the complete label. Applicant claims ownership of Registrations Nos. 263,621 and 521,068.

For Varnishes, Paint Enamels, Baking Enamels, Paints in Liquid Form, Primer-Sealer Paint for Porous Interior Surfaces.

Claims use since Dec. 14, 1946.

Ser. No. 631,093. Chempro Sales Co., Bloomfield, N. J. Filed June 12, 1952.

CHEMPROTEX

For Mastic Exterior Coating for Buildings.

Claims use since May 21, 1951.

Ser. No. 638,983. The Turnbridge Manufacturing & Supply Company, Limited, London, England. Filed Dec. 4, 1952.

Joy

Applicant claims ownership of British Registration No. 660,018, dated June 13, 1947.

For Paints, Enamel Paint, Varnishes, Lacquers, Stains for Wood and the Like Surfaces, Stove Black, Aluminum Paint, Bath Enamel Undercoat White, Cellulose Enamel, Gold Paint, Luminous Paint, Heat Resisting Paint, and Transparent Paint.

Ser. No. 639,841. Sears, Roebuck and Co., Chicago, Ill. Filed Dec. 20, 1952.

Sear-Tone

Applicant disclaims the word "Tone" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 118,097, 349,989, and others.

For Flat Finish Wall Paint.

Claims use since on or about Jan. 15, 1943.

Ser. No. 642,354. Inter-Coastal Paint Corporation, East St. Louis, Ill. Filed Feb. 17, 1953.

SYNTURPS

For Turpentine Substitute for Use in the Manufacture of Paint or Similar Type Compositions, or as an Additive to Such Compositions.

Claims use since Dec. 2, 1919.

Ser. No. 649,533. Pioneer Paint & Varnish Co., Tucson, Ariz. Filed June 29, 1953.

SKILCRAFT

For Paints and Varnishes.

Claims use since 1949.

Ser. No. 650,811. International Latex Corporation, Dover, Del. Filed July 24, 1953.

Playtex

For Household Paints.

Claims use since July 23, 1953.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 630,068. Charles E. Frosst & Co., Montreal, Quebec, Canada. Filed May 22, 1952.

DOLOMIDE

Priority is claimed under Sec. 44(d). Canadian application filed Feb. 28, 1952, Registration No. N. S. 159/40657, dated Feb. 28, 1952.

For Anti-Pyritic in the Treatment of Arthritic Conditions.

Ser. No. 632,265. Natick Industries Corporation, doing business as Natick Pharmacal Laboratories, Natick, Mass. Filed July 8, 1952.

LIPAGEN

For Essential Unsaturated Fatty Acid Complexes Derived From Vegetable and Animal Sources for Treatment of Conditions Where There Exists a Deficiency of Unsaturated Fatty Acids in Either a Human Being or an Animal.

Claims use since March 1952.

Ser. No. 638,655. Dr. L. D. LeGear Medicine Co., St. Louis, Mo. Filed Nov. 26, 1952. (Sec. 2f.)



DR. LEGEAR'S COW CLEAN

Applicant disclaims exclusive right to the words "Cow Clean" apart from the rest of the mark. The photograph is that of Dr. L. D. LeGear. The person identified by the

name, Dr. LeGear, and by portrait is deceased. Applicant claims ownership of Registrations Nos. 293,265, 527,159, and 126,444.

For Uterine Bolus, Packaged in Handy Disposable Applicator, Recommended for the Prevention and Treatment of Womb Infections and Retained Afterbirth in Cows.

Claims use since Oct. 21, 1952.

Ser. No. 640,472. Pay-U Laboratories, Inc., Quincy, Ill., assignor to Moorman Manufacturing Company, Quincy, Ill., a corporation of Illinois. Filed Jan. 7, 1953.

Pay-U

Applicant claims ownership of Registration No. 506,394.

For Mineral and Vitamin Concentrates and Supplements for Stock and Poultry Feed.

Claims use since June 11, 1946.

Ser. No. 644,780. Numanna Laboratories Corporation, Wadsworth, Ill. Filed Apr. 6, 1953.

Numanna

For Nutritional Supplement Including Minerals and Vitamins Deemed Essential for a Properly Balanced Human Diet, in Both Tablet and Capsule Form.

Claims use since Feb. 9, 1953.

Ser. No. 646,091. Abbott Laboratories, North Chicago, Ill. Filed Apr. 29, 1953.

DESOXYLETS

Applicant claims ownership of Registrations Nos. 434,257 and 577,061.

For Composition Containing D-Desoxyephedrine Hydrochloride and Vitamins Prepared for Use as a Cerebral Stimulant and Source of Vitamins.

Claims use since Apr. 9, 1953.

Ser. No. 646,585. The Vitamin Store of Missouri, St. Louis, Mo. Filed May 6, 1953.

MASTER FORMULA

The word "Formula" is disclaimed apart from the mark as shown and used. The drawing is lined to indicate shading.

For Vitamin Capsules and Tablets.

Claims use since Dec. 21, 1945.

Ser. No. 646,707. James L. Younghusband, Chicago, Ill. Filed May 8, 1953.

Black Magic

For Dusting Powder for the Treatment of Fungoid Infection of the Skin, Particularly Ringworm, on Horses and Cattle; Hoof Dressing for Softening the Hooves and Encouraging Their Natural Growth; and Veterinary Salve for the Treatment of Mange on Horses and Cattle.

Claims use since June 26, 1952.

Ser. No. 646,741. John A. Curtiss, doing business as Rednels Laboratories, Manhasset, N. Y. Filed May 11, 1953.

REDNELS

For Appetite Reducing Tablets.

Claims use since May 1, 1953.

Ser. No. 646,810. Schenley Laboratories, Inc., New York, N. Y. Filed May 11, 1953.

RAPIDORME

For Somnifacient.

Claims use since Mar. 18, 1953.

Ser. No. 648,452. White Laboratories, Inc., Kenilworth, N. J. Filed June 8, 1953.

ACIDABATE

For Preparation Intended for the Treatment of Gastric Hyperacidity.

Claims use since May 25, 1953.

Ser. No. 648,453. White Laboratories, Inc., Kenilworth, N. J. Filed June 8, 1953.

ACIDICATOR

For Preparation for the Diagnosis of Gastric Function.

Claims use since May 25, 1953.

Ser. No. 648,455. White Laboratories, Inc., Kenilworth, N. J. Filed June 8, 1953.

ORABIOTIC

For Antibiotic Preparation Intended for Local Prevention and Treatment of Oropharyngeal Infections.

Claims use since May 22, 1953.

Ser. No. 648,980. Blax, Inc., New York, N. Y. Filed June 18, 1953.

EARTUNE

For Ear Drops.

Claims use since May 11, 1953.

Ser. No. 649,053. Harvey Laboratories, Inc., Philadelphia, Pa. Filed June 25, 1953.

DOLAMIN

For Liquid Medicine in Ampule Form for Local and Perineural Infiltration, in the Relief of Neuralgia Pain.

Claims use since Feb. 10, 1947.

Ser. No. 649,684. Bigelow-Clark, Inc., Brooklyn, N. Y. Filed July 2, 1953.

PARM

For Antiseptic Rubefacient (for Massaging and as a Palliative for Minor Cuts and Bruises, Skin Irritations, Etc.).

Claims use since June 1953.

Ser. No. 650,270. Joseph Monzo, doing business as J. M. Co., Philadelphia, Pa. Filed July 14, 1953.

J.M. SANA BENE

For Preparation for Treatment of Burns and Sores.

Claims use since July 6, 1953.

CLASS 19

VEHICLES

Ser. No. 650,155. Bendix Aviation Corporation, South Bend, Ind. Filed July 13, 1953.

Pneudraulic

Applicant claims ownership of Registration No. 296,592.

For Shock Struts.

Claims use since May 29, 1931.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 623,675. The Pioneer Electric and Research Corporation, Forest Park, Ill. Filed Jan. 16, 1952.

F&R

For Remote Switching Apparatus, Remote Positioning Apparatus, Radio Receiving Apparatus, Constant Frequency Power Supply Apparatus, Components for Such Apparatus, and Electric Motors.

Claims use since on or about Aug. 23, 1951.

Ser. No. 635,424. Gerben Miedema, Spokane, Wash. Filed Sept. 18, 1952.

GEMCO

The drawing is lined for black but no claim is made to the color named.

For Heater Operated From Electrical Sources for Warming Water Cooled Engines To Facilitate Starting.

Claims use since July 21, 1952.

Ser. No. 640,320. Anderson Motors Ltd., Vancouver, British Columbia, Canada. Filed Jan. 5, 1953.

Progen

Priority under Sec. 44(d). Canadian application filed July 19, 1952, Registration No. N. S. 41930/164, dated July 19, 1952.

For Motor Vehicle Generator Guards To Be Mounted on Electrical Generators Over the Ventilating Holes Thereof.

Ser. No. 640,388. Astron Corporation, East Newark, N. J. Filed Jan. 6, 1953.

BLUE-POINT

For Capacitors.

Claims use since July 1952.

Ser. No. 648,190. Philco Corporation, Philadelphia, Pa. Filed June 3, 1953.

PHONORAMA

For Radio Phonograph.

Claims use since May 19, 1953.

Ser. No. 648,260. Pelham Electric Manufacturing Company, Erie, Pa. Filed June 4, 1953. (Sec. 2f.)

Pelham

For Switchboards, Panels and Parts Thereof; Connectors; Switches; Fuse Clips.

Claims use since 1939.

Ser. No. 648,428. Price Battery Corporation, Hamburg, Pa. Filed June 8, 1953.

INSULGLAS

For Storage Batteries and Parts Thereof.

Claims use since May 21, 1953.

Ser. No. 648,541. Erie Resistor Corporation, Erie, Pa. Filed June 10, 1953.

HI-STAB

For Resistors.

Claims use since May 6, 1953.

Ser. No. 648,589. Columbia Records Inc., Bridgeport, Conn. Filed June 11, 1953.

EPIC

For Electric Phonographs, Turntables, Sound Reproducers, Pickups, and Component Parts Therefor.

Claims use since June 9, 1953.

Ser. No. 649,682. Anaconda Wire and Cable Company, New York, N. Y. Filed July 2, 1953.

SILVALINE

For Electric Wires and Cables.
Claims use since Apr. 1, 1950.

Ser. No. 649,737. Stewart-Warner Corporation, Chicago, Ill. Filed July 2, 1953.

Gadabout

For Radio Receiving Sets.
Claims use since 1947.

Ser. No. 649,738. Stewart-Warner Corporation, Chicago, Ill. Filed July 2, 1953.

Capri

For Radio Receiving Sets.
Claims use since May 28, 1953.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 634,969. Diamond Calk Horseshoe Co., Duluth, Minn. Filed Sept. 8, 1952. (Sec. 2f.)

EAGLE RINGER

For Pitching Shoes.
Claims use since 1932.

Ser. No. 639,512. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

Applicant claims ownership of Registration No. 249,261.
For Playing Cards, Dolls, Doll Carriages, Dominoes, Dice, Checkers, Games—Namely, Card Games, Parlor Games Played With a Board and Detachable Pieces, Amusement Games in Which a Ball Is Projected on an Inclined Playing Surface, Toy Sewing Kits and Knitting, Embroidery, and Similar Educational Needlework Pastime Games for Children; Sleds and Toys—Namely, Toy Building Blocks, Toy Wagons, Tumbling Toys, Dolls, Puppets, Disguise Kits, and Toy Horns.
Claims use since 1932.

Ser. No. 646,717. Airex Corporation, New York, N. Y. Filed May 11, 1953.

VAGABOND

For Fishing and Spinning Reels, Fishing and Spinning Rods, Fishing Plugs, Spinners, Artificial Lures and Bait for Fish Constructed Basically of Metal and Plastic Colored and Trimmed and Combinations of Metals and Plastics Colored and Trimmed Containing No Chemical Preparations Designed To Attract Fish by Odor Rather Than Sight.
Claims use since Aug. 19, 1952.

Ser. No. 650,298. Bouncy Manufacturing Company, Woodward, Okla. Filed July 15, 1953.

Bouncy



For Fishing Tackle—Namely, Sinkers, for Fishing Lines.
Claims use since Jan. 10, 1953.

Ser. No. 650,837. George A. Rudolf, Berkeley, Calif. Filed July 24, 1953.

TRAILWISE

For Sleeping Bags; Mountain Climbing Apparatus—Namely, Pitons, Carabiners, and Carabiner Hangers; and Ski Accessories—Namely, Climbing Attachments Comprising Climbing Skins Adapted To Be Affixed to the Bottom Running Surface of Skis, Ski Poles, and Ski Bindings.
Claims use since on or about May 1, 1952.

Ser. No. 652,696. Veneko Tackle Co., Inc., Baltimore, Md. Filed Sept. 2, 1953.

Consort

For Sporting and Recreation Equipment—Namely, Archery Bows.
Claims use since on or about Aug. 1, 1952.

Ser. No. 653,224. Ideal Toy Corporation, Hollis, N. Y. Filed Sept. 15, 1953.

LOLLAPALOOZA

For Dolls.
Claims use since Aug. 10, 1953.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 625,568. Corinne J. Nevelson, New York, N. Y. Filed Feb. 21, 1952.

TORQUE

For Table-Ware—Namely, Knives, Forks, and Spoons, Made of a Base Metal.
Claims use since Nov. 15, 1951.

Ser. No. 632,808. Universal Winding Company, Cranston, R. I. Filed July 19, 1952.

ROTOMATIC

For Machines and Parts Thereof for Winding Thread, Yarn, Cord, Twine, Rope, Wire, and the Like.
Claims use since May 26, 1952.

Ser. No. 642,035. Victor Leon, Massapequa, N. Y. Filed Feb. 10, 1953.

COLANITE

For Can Openers, Bottle Cap Removers, Hair Clippers, Razor Blade Holders, Scissors for Hair Cutting and Hair Trimming, Shears for Hair Cutting and Hair Trimming, and Windshield Scrapers.
Claims use since December 1951.

Ser. No. 642,099. Tech-Clamp Co., Inc., Boston, Mass. Filed Feb. 11, 1953.

TECH CLAMP

The term "Clamp" is disclaimed apart from the mark as shown in the drawing.
For Vise.
Claims use since on or about Aug. 29, 1952.

Ser. No. 648,506. The Shredmaster Corporation, Brooklyn, N. Y. Filed June 9, 1953.

SECROMAT

For Paper Cutting Machines.
Claims use since May 18, 1953.

Ser. No. 648,518. Airborne Accessories Corporation, Hillside, N. J. Filed June 10, 1953.

AIRBORNE

For Profile Dressing and Grinding Machines, Right Angle Bevel Gear Units and Gear Boxes.
Claims use since Feb. 1, 1949.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 649,488. The Dexter Company, Fairfield, Iowa. Filed June 29, 1953.

Southern Pride

Applicant claims ownership of Registration No. 537,163.
For Laundry Equipment—Namely, Washers, Ironers, and Dryers.
Claims use since Mar. 7, 1952.

Ser. No. 649,489. The Dexter Company, Fairfield, Iowa. Filed June 29, 1953.

SOUTHERN QUEEN

Applicant claims ownership of Registrations Nos. 537,163 and 552,170.
For Laundry Equipment—Namely, Washers, Ironers, and Dryers.
Claims use since July 3, 1952.

Ser. No. 650,264. David Lehrman, trading as The Ironees Company, Philadelphia, Pa. Filed July 14, 1953.

Toppers

For Ironing Board Pads and Covers.
Claims use since on or about June 19, 1953.

CLASS 25

LOCKS AND SAFES

Ser. No. 582,541. Leo Peters, Evanston, Ill. Filed July 26, 1949.

DOOR SERVANT

No claim is made to the word "Door" apart from the mark as shown.
For Key Operated or Combination Lock Operated Locking Bag Containing a Clothes Hanger for Receiving Laundry and Dry Cleaning.
Claims use since July 18, 1949.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 584,468. Paul Schaurte, doing business as Patent- und Versuchs-Anstalt, Vaduz, Liechtenstein. Filed Sept. 3, 1949.

Censor

Applicant claims ownership of Liechtenstein Registration No. 185, dated July 5, 1948.
For Sorting Machines for Sorting Various Articles and Sorting Gages.

Ser. No. 619,833. Hospital Equipment Corporation, New York, N. Y. Filed Oct. 10, 1951.

ANCHOR

For Graduated Medicine Cups; Graduates; Capillary, Centrifuge, and Test Tubes; Chemical Thermometers; Microscope Cover Glasses; Kline Test, Culture, and Microscope Slides; and Graduated Cylinders.
Claims use since December 1920.

Ser. No. 631,514. Westinghouse Electric Corporation, Pittsburgh, Pa., and Baltimore, Md. Filed June 20, 1952.

WESTEX

For Automatic X-Ray Control Apparatus—Namely, a Milliampere Regulator.
Claims use since June 22, 1931.

Ser. No. 632,149. The Brearley Company, Rockford, Ill. Filed July 5, 1952.

Ritz

For Weighing Scales.
Claims use since Aug. 19, 1948.

Ser. No. 640,048. Pathway Optical Products, New York, N. Y. Filed Dec. 26, 1952.

JO-ANN

For Optical Frames.
Claims use since Sept. 1, 1952.

Ser. No. 640,079. Proportioneers, Inc., Providence, R. I. Filed Dec. 27, 1952.



Applicant claims ownership of Registration No. 416,912.
For Proportioning Meters for Measuring Proportional Volumes of Liquids and Test Kits for Analyzing Samples of Liquid To Determine Turbidity and/or Chemical Content.
Claims use since Oct. 15, 1952.

Ser. No. 640,473. Picker X-Ray Corporation, New York, N. Y. Filed Jan. 7, 1953.

LAMINEX

For X-Ray Cassettes.
Claims use since May 19, 1952.

Ser. No. 646,053. Cinefot International Corp., New York, N. Y. Filed Apr. 28, 1953.

STEROMAT

For Photographic Cameras.
Claims use since Jan. 30, 1953.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 624,751. Marcus Brush Company, Chicago, Ill. Filed Feb. 9, 1952.

MARCOTER

For Paint Brushes.
Claims use since May 15, 1950.

Ser. No. 633,742. Twisto Container Corporation, Redwood City, Calif. Filed Aug. 11, 1952.

twisto

For Tooth Brushes.
Claims use since Apr. 23, 1952.

Ser. No. 653,295. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Sept. 17, 1953.

LUCITE

Applicant claims ownership of Registrations Nos. 262,984 and 350,093.
For Toothbrushes.
Claims use since December 1949.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 632,494. Union Asbestos & Rubber Company, Chicago, Ill. Filed July 12, 1952.

COLDMOBILE

For Refrigerating Units for Vehicles.
Claims use since July 1948.

Ser. No. 643,633. Charles R. Beltz, doing business as Beltz Engineering Laboratories, Detroit, Mich. Filed Mar. 16, 1953.

BEL TEMP

For Refrigeration Equipment—Namely, Low Temperature Refrigeration Boxes, Refrigeration Units for Air Conditioning, Artificial Ice Skating Rinks, and Parts Thereof.
Claims use since Feb. 5, 1952.

Ser. No. 644,084. Winslow Engineering Co., Oakland, Calif. Filed Mar. 23, 1953. (Sec. 2f.)

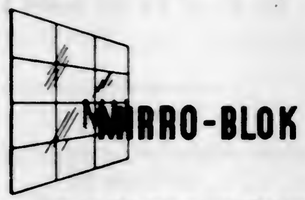
FREE-FLO

Applicant claims ownership of Registrations Nos. 395,516 and 517,332.
For Oil Filters, Sometimes Known in the Trade as Oil Purifiers or Oil Conditioners, and Parts Thereof and Filters Therefor.
Claims use since on or about July 1, 1923.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 631,144. Century Industries, Inc., Chicago, Ill. Filed June 13, 1952.



The representation of the mirror and the word "Blok" are disclaimed apart from the mark as shown. The drawing is lined for shading only.
For Wall Mirrors.
Claims use since May 14, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 622,927. Dearborn Stove Company, Dallas, Tex. Filed Dec. 28, 1951.

GUARD-O-MATIC

The word "Guard" is disclaimed separately and apart from the mark shown on the drawing.
For Automatically Controlled Gas Burner.
Claims use since July 5, 1951.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 638,744. United States Rubber Company, New York, N. Y. Filed Nov. 28, 1952.

N.Y.B.-NYLITE

For Plastic Hose.
Claims use since Oct. 29, 1952.

Ser. No. 646,065. The General Tire & Rubber Company, Akron, Ohio. Filed Apr. 28, 1953.

TEN-TEX

For Pneumatic Tires and the Fabric in Pneumatic Tires.
Claims use since Feb. 13, 1953.

Ser. No. 649,465. The Avon India Rubber Company Limited, Melksham, England. Filed June 29, 1953. (Sec. 2f.)

AVON

For Tires and Tubes of India Rubber.
Claims use since 1890.

Ser. No. 651,166. The Firestone Tire & Rubber Company, Akron, Ohio. Filed July 31, 1953.

"500"

For Resilient Vehicle Tires of Rubber or Rubber Composition or Rubber and Fabric.
Claims use since June 30, 1953.

CLASS 37

PAPER AND STATIONERY

Ser. No. 624,591. George Celia, doing business as Life Manager Company, Chicago, Ill. Filed Feb. 6, 1952.

LIFE MANAGER

For File Cards and Binders Therefor.
Claims use since Dec. 31, 1951.

CLASS 39

CLOTHING

Ser. No. 610,533. Westminster Shoe Co. Inc., Westminster, Md. Filed Feb. 26, 1951.



No claim is made to "Westminster" apart from the mark.
For Shoes for Women.
Claims use since Dec. 8, 1950.

Ser. No. 616,826. Jay-Ann Co., Inc., San Antonio, Tex. Filed July 23, 1951.



The words "of Texas" and the representation of the map of the State of Texas are disclaimed apart from the mark as shown on the drawing.
For Infants' and Children's Dresses, Pinafores, Sunsuits, and Cotton Coats.
Claims use since July 1, 1945.

Ser. No. 635,202. Unit Hosiery Co., Inc., Cleveland, Ohio. Filed Sept. 12, 1952. (Sec. 2f.)

Shur-Last

For Hosiery, for Men, Women, and Children.
Claims use since May 1938.

Ser. No. 636,049. Piedmont Shirt Company, Greenville, S. C. Filed Oct. 1, 1952.

Wings CUBS

Applicant claims ownership of Registrations Nos. 253,701, 395,806, and 429,691.
For Men's and Boys' Outer Shirts, Under Shorts, and Pajamas.
Claims use since Sept. 1, 1952, as to the mark shown; and since March 1938 as to "Wings."

Ser. No. 640,833. Bressler Bros., Atlanta, Ga. Filed Jan. 16, 1953.

Lovely Maid

For Women's Industrial Uniforms.
Claims use since Nov. 30, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 638,865. The E. Richard Meinig Co., Reading, Pa. Filed Dec. 2, 1952.

MIRACULO

For Textile Fabrics in the Piece Made of Polyester Fibre Yarns—Namely, Warp Knit Tricot.
Claims use since Nov. 12, 1952.

Ser. No. 647,842. Claire Greene, Inc., New York, N. Y. Filed May 28, 1953.

SELECTRONIC METHOD

The word "Method" is hereby disclaimed apart from the mark as shown.
For Quilts and Comforters.
Claims use since Mar. 15, 1953.

Ser. No. 647,847. The Hettrick Manufacturing Company, Toledo, Ohio. Filed May 28, 1953.

Permakote

For Water Resistant Fabric of Cotton.
Claims use since Mar. 12, 1953.

Ser. No. 648,972. United Merchants and Manufacturers, Inc., New York, N. Y. Filed June 17, 1953.

Young ROOMAKER

Applicant claims ownership of Registrations Nos. 438,703 and 438,714.
For Piece Goods of Cotton, Wool, Silk, Synthetic Fibers, and/or Combinations Therefor.
Claims use since on or about June 3, 1953.

Ser. No. 648,989. The Fritz & Lakue Company, New York, N. Y. Filed June 18, 1953.

RAJASTAN

For Woven and/or Knotted Rugs and Carpets.
Claims use since May 1, 1953.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 597,343. Lewis & McDowell, Inc., New York, N. Y., assignor to Pinky Products, Inc., New York, N. Y., a corporation of New York. Filed May 12, 1950.

Pinky

For Fingernail Polish Removing Kit—Namely, a Container, a Bristle Brush Permanently Mounted Therein, and a Liquid Nail Polish Solvent In the Container.
Claims use since Mar. 27, 1950.

Ser. No. 640,357. Parke, Davis & Company, Detroit, Mich. Filed Jan. 5, 1953. (Sec. 2f.)

READI-BANDAGE

Applicant claims ownership of Registration No. 369,102.
For Adhesive Bandages.
Claims use since about February 1928.

Ser. No. 647,578. American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, New York, N. Y., and Philadelphia, Pa. Filed May 25, 1953.

ALISTIK

For Electuary Applicator for the Measured Administration of Medicaments.
Claims use since Apr. 29, 1953.

Ser. No. 647,579. American Home Products Corporation, doing business as Wyeth Laboratories, Division of American Home Products Corporation, New York, N. Y., and Philadelphia, Pa. Filed May 25, 1953.

ALITUBE

For Electuary Applicator for the Measured Administration of Medicaments.
Claims use since Apr. 29, 1953.

Ser. No. 649,870. Coe Laboratories, Inc., Chicago, Ill. Filed July 6, 1953. (Sec. 2f.)

COE-FLO

Applicant claims ownership of Registrations Nos. 278,999 and 509,992.
For Denture Impression Material.
Claims use since July 1947.

Ser. No. 650,219. Schieffelin & Co., New York, N. Y. Filed July 13, 1953.

Dropak

For Applicator for Administering Liquid Medication in Drop Form.
Claims use since on or about June 26, 1953.

Ser. No. 650,451. The La Resista Corset Company, Bridgeport, Conn. Filed July 17, 1953.

RECOVERY

For Surgical Brassières.
Claims use since on or about July 15, 1953.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 630,969. Southern Club Co., Tulsa, Okla. Filed June 9, 1952.

Southern Club

For Soft Drinks—Namely, Ginger Ale, Sparkling Water, White Soda, Non-Alcoholic Maltless Beverage Mixers, Orange Soda, Grape Soda, and Root Beer.
Claims use since May 13, 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 563,459. Feinberg Realty Co., doing business under the name Feinberg Kosher Sausage Co., Minneapolis, Minn., by change of name from Feinberg Kosher Sausage Co. Filed Aug. 16, 1948. (Sec. 2f.)



Applicant claims ownership of Registration No. 224,952.
For Beef Sausage.
Claims use since on or about Apr. 1, 1919.

Ser. No. 615,318. David Der Hairbedian, doing business under the firm name and style of David & Sons, Fresno, Calif. Filed June 18, 1951.



No exclusive claim is made to the representation of a peanut apart from the mark as shown in the drawing.
For Edible Nuts—Namely, Unshelled Unsalted Pine Nuts, Shelled Roasted Salted Almonds, Shelled Roasted Salted Cashews, and Unshelled Roasted Salted Pistachios; Edible Seeds—Namely, Unshelled Roasted Salted Pumpkin Seeds and Unshelled Roasted Sunflower Seeds; Raisins and Roasted Peanuts Both Salted and Unsalted, the Salted Peanuts Being Shelled.
Claims use since Mar. 9, 1929.

Ser. No. 625,722. J. E. Dyer & Co., Washington, D. C. Filed Feb. 29, 1952.

DYCO

For Canned Vegetables and Canned Vegetable Juices, Canned Deciduous Fruits and Deciduous Fruit Juices, Canned Citrus Fruits and Citrus Fruit Juices, Canned Crushed Sweetened Fruits and Canned Fruit Syrups for Food Purposes, Fruit Preserves, Jellies, Peanut Butter, Olives, Pickled Vegetables, Relishes—Namely, Cucumber Pickles and Cucumber Pickle Relish, and Pickled Deciduous Fruits.
Claims use since 1920.

Ser. No. 627,343. Maret Grain Company, Hartwell, Ga. Filed Mar. 31, 1952.

OLD-BESSIE

For Dairy Feed.
Claims use since June 2, 1947.

Ser. No. 637,384. Mex-Maid Food Products Co., Nogales, Ariz. Filed Oct. 30, 1952.

MEX-MAID

For Frozen Fresh Tamales.
Claims use since July 20, 1952.

Ser. No. 637,908. Boehmer, Inc., Wenatchee, Wash. Filed Nov. 12, 1952.

SCARLET SPICE

The drawing is stippled to indicate shading. The name "Scarlet" is that of a fictional character who engaged in the spice trade between Seattle, Washington, and the Orient.

For Fresh Deciduous Fruits.

Claims use since Oct. 1, 1951.

Ser. No. 637,962. United Packers, Inc., doing business as Chicago Beef Company, Chicago, Ill. Filed Nov. 12, 1952.

BANQUET BOUQUET

For Meat Food Products in Tin and Glass—Namely, Vienna Sausage.

Claims use since Oct. 29, 1952.

Ser. No. 638,487. The Humko Co., Memphis, Tenn. Filed Nov. 22, 1952.

Fry-dee

For Edible Oil of Animal and Vegetable Origin.

Claims use since Oct. 15, 1952.

Ser. No. 639,275. Heckman Products Corp., Washington, D. C. Filed Dec. 10, 1952. (Sec. 2f as to the word "Heckman.")

HECKMAN

STICKS AND STRIPS

"Sticks and Strips" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 372,499.

For Pickles.

Claims use since Mar. 1, 1949, as shown; and since July 1938 as to "Heckman."

Ser. No. 639,736. Berkshire Biscuit Company, Shillington, Pa. Filed Dec. 19, 1952.

Bon-ton

Swedish Type ASSORTMENT

No claim is made to the words "Swedish Type Assortment" apart from the mark as shown.

For Cookies—Namely, Cocoanut Crispies, Vanilla Cream Drops, Chocolate Cream Drops, Chocolate Bars, Lemon Bars, Ice Box Cookies, Maple Shortbread, Cocoanut Rings, and Jelly Stars.

Claims use since Aug. 28, 1952.

Ser. No. 641,441. Dairy Crown Co., Saginaw, Mich., assignor to Dairy Crown Corporation, Saginaw, Mich. Filed Jan. 28, 1953.

Dairy Crown

The word "Dairy" and the representation of the cone and contents thereof are disclaimed.

For Packaged Ice Cream, Ice Cream Cones, and Frozen Custard.

Claims use since Jan. 22, 1953.

Ser. No. 645,271. Charles G. Summers, Jr., Inc., New Freedom, Pa. Filed Apr. 14, 1953. (Sec. 2f.)

Charles G. Summers, Jr's. SUPERFINE

"Charles G. Summers, Jr.," is the name of a particular individual now deceased. Applicant claims ownership of Registration No. 189,153.

For Canned Vegetables—Namely, Canned Peas, Canned Peas and Carrots, Canned Beans, Canned Succotash, Canned Okra and Tomatoes, Canned Corn, Okra and Tomatoes, Canned Corn and Tomatoes, Canned Tomatoes, Canned Beets, Canned Mixed Vegetables, Canned Carrots, Canned Ceci Peas, Canned Onions, Canned Corn, Canned Potatoes.

Claims use since Feb. 1, 1923.

Ser. No. 646,154. The Nestlé Company, Inc., White Plains, N. Y. Filed Apr. 29, 1953. (Sec. 2f.)

NESTLÉ'S Chocolets

Applicant claims ownership of Registrations Nos. 74,832, 157,724, 185,602, and others.

For Prepared Edible Chocolate.

Claims use since Sept. 16, 1935.

Ser. No. 649,732. Safeway Stores, Incorporated, Oakland, Calif. Filed July 2, 1953.

STONE CROCK

For Canned Sauerkraut.

Claims use since Mar. 20, 1950.

Ser. No. 651,103. Gateway Packing Co., Inc., Malden, Mass. Filed July 30, 1953.

CHIC-N-FARM

Applicant disclaims the words "Chic-N-Farm" excepting as used in connection with the mark as shown.

For Canned Boned Chicken Fricassee and Chicken Gravy.

Claims use since Oct. 19, 1951.

CLASS 47

WINES

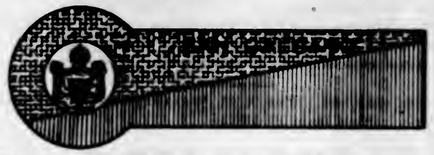
Ser. No. 629,230. Capitol Hill Wine & Spirits Inc., Indianapolis, Ind. Filed May 6, 1952.

MELODY HILL

For Wines.

Claims use since Oct. 15, 1950.

Ser. No. 636,709. Phillip Hoffman, doing business under the name of Hoffman Import & Distributing Co., Jersey City, N. J. Filed Oct. 16, 1952.



The drawing is lined to represent red color and gold, respectively.

For Wines.

Claims use since 1948.

Ser. No. 640,687. Monarch Wine Company of Georgia, Atlanta, Ga. Filed Jan. 13, 1953.

Cantor

For Wines.

Claims use since Dec. 31, 1952.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 635,024. Bruce & Company (Leith) Limited, Leith, Edinburgh, Scotland. Filed Sept. 9, 1952.



NORTHERN SCOT

The portrait shown on the drawing is a fanciful representation of King Robert the Bruce. Applicant claims ownership of British Registration No. 702,735, dated Nov. 17, 1951.

For Scotch Whisky.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 572,886. Aluminum Seal Company, Inc., Richmond, Ind., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania. Filed Jan. 27, 1949.

HYTOP RO

For Caps and Closure Seals for Bottles, Cans, and Jars.

Claims use since Apr. 7, 1948.

Ser. No. 580,638. Zurlinden Products Company, Rocky River, Ohio. Filed June 16, 1949.

PORCAP

For Bottle Closures.

Claims use since May 20, 1949.

Ser. No. 645,347. Southern Straw Manufacturing Company, Atlanta, Ga. Filed Apr. 15, 1953.

GLIDE

For Drinking Straws.

Claims use since Feb. 1, 1953.

Ser. No. 646,668. Maurice Greenberg, trading and doing business as Connecticut Leather Company, Hartford, Conn. Filed May 8, 1953.

Leather Craft Kits

Applicant disclaims the right to any exclusive use of the words "Leather Craft by" and "Kits," except in the association shown. Applicant claims ownership of Registration No. 546,304.

For Handicraft Kits, Containing Pre-Cut Pieces of Leather, Leather Substitutes, Plastic, or Similar Fabrics, Adapted To Be Assembled by the User To Form Various Craft Items, Such as Ladies' Handbags, Wallets, Belts, Vests, Etc.

Claims use since December 1952.

Ser. No. 647,211. Maryland Paper Products Co., Baltimore, Md. Filed May 18, 1953.

Sweethearts SPARKLES Straws

The word "Straws" is disclaimed apart from the mark as shown.

For Drinking Straws.

Claims use since on or about May 2, 1951.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 627,359. Willie Sloan, Los Angeles, Calif. Filed Mar. 31, 1952.

L. S.
Cream
Lotion



Applicant hereby disclaims the words "Cream Lotion" in said mark as being apart from said mark as shown.

For Skin Lotion, Particularly for the Face and Hands.

Claims use since Apr. 28, 1936.

Ser. No. 635,562. The J. R. Watkins Company, Winona, Minn. Filed Sept. 20, 1952.

PINK

SILK

The word "Pink" is disclaimed apart from the mark as shown in the drawing.

For Hand Lotion.

Claims use since Aug. 26, 1952.

Ser. No. 635,980. Louis Tentindo, Boston, Mass. Filed Sept. 30, 1952.

YOUTH PACK

No claim is made to the use of the word "Pack" apart from the mark shown, for the purpose of this registration; but no common law or other rights are otherwise waived.

For Paste Preparation for the Skin To Aid in Removing Wrinkles.

Claims use since Sept. 24, 1952.

Ser. No. 640,217. Joseph A. Lavallee, doing business as J. A. Lavallee and Sons, Central Falls, R. I. Filed Dec. 31, 1952.

HAIR OLIN

For Lanolin for Hair and Scalp Conditioning.

Claims use since Dec. 29, 1952.

Ser. No. 641,288. Jerome L. Freedman, conducting business under the firm name "Freedman Associates," Brooklyn, N. Y. Filed Jan. 26, 1953.

GROOM-X

The word "Groom" is disclaimed apart from the mark as shown in the drawing.

For Hair Tonic.

Claims use since Jan. 7, 1953.

Ser. No. 641,452. Lancome, S. A., Paris, France. Filed Jan. 28, 1953.

"EMPREINTE" DE BEAUTÉ

The word "Beauté" is disclaimed apart from the mark as shown. Applicant claims ownership of French Registration No. 418,987, dated Mar. 25, 1952; and United States Registration No. 540,348.

For Facial Anti-Wrinkle Pack or Mask Having Incidental Cleansing and Astringent Properties.

Ser. No. 644,301. Hair Nutri, Inc., New York and Brooklyn, N. Y. Filed Mar. 27, 1953.

HAIR-NUTRI

Apart from the combination "Hair-Nutri," the word "Hair" is disclaimed.

For Scalp and Hair Preparation for Promoting the Growth of Hair.

Claims use since Jan. 7, 1952.

Ser. No. 649,264. The J. R. Watkins Company, Winona, Minn. Filed June 23, 1953.

CREMAIRE

For Men's Hair Dressing.

Claims use since May 19, 1953.

Ser. No. 649,473. Burma-Vita Company, Minneapolis, Minn. Filed June 29, 1953.

BURMA SHAVE

Without waiver of common-law rights, applicant disclaims right to the exclusive use of the word "Shave" apart from the combination shown. Applicant claims ownership of Registrations Nos. 227,135, 410,732, and others.

For Lotion for Use After Shaving.

Claims use since Oct. 30, 1946.

Ser. No. 649,509. Kiva Hoffman, Mamaroneck, N. Y. Filed June 29, 1953.

kiva

For Cosmetics—Namely, Skin Tonic, Astringent, Cleansing Cream, Night Cream, Make-Up Foundation, Face Powder, Cologne, Mascara, Rouge.

Claims use since March 1953.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 648,208. Texize Chemicals, Inc., Greenville, S. C. Filed June 3, 1953.

Texy

For Greaseless Cleaner for Floors, Walls, Woodwork, and General Household Purposes.

Claims use since Sept. 1, 1952.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 637,696. Atlantic Machine Tool Works, Inc., Newington, Conn. Filed Nov. 6, 1952.



"Products of Lasting Quality" are disclaimed apart from the mark as shown.

For Engineering Research Services in the Design of Gauges, Jigs, Work-Supporting Fixtures, Paper Roll Machines, Drilling Machines, Tube-Rolling Machines, Machines for Sorting Nuts and Assembling Them to Bolts, Aircraft Parts, and Tool and Jet Engine Parts, on a Consultant Basis, Apart From Manufacturing.

Claims use since Feb. 1, 1951.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 527,552. The Pure Oil Company, Chicago, Ill. Filed July 5, 1947.

Be sure with Pure

The letters on the drawing are ruled for red and blue but no claim is made to color. Applicant claims ownership of Registrations Nos. 296,931, 343,233, and others.

For Services Rendered to Automobiles, Trucks and Other Automotive Vehicles—Namely, Lubrication, Washing, Polishing, Repairing, Motor Tuning, Battery Charging, Tire Repairing and Changing, Air Cleaner Maintenance and Repair, Spark Plug Cleaning and Regapping.

Claims use since Dec. 29, 1935.

Ser. No. 646,575. Henry D. Rosengarten, doing business as I. Rosengarten, Furs, Miami, Fla. Filed May 6, 1953.

CAROLIZED

For Fur Cleaning.

Claims use since December 1949.

CLASS 104

COMMUNICATION

Ser. No. 631,965. Peoples Broadcasting Corporation, Columbus, Ohio. Filed June 24, 1952.

THE MARK CONSISTS OF THE SPOKEN WORDS "STORYLAND FAIR"

For Commercial Radio Broadcasting.

Claims use since December 1946.

CLASS 106

MATERIAL TREATMENT

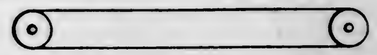
Ser. No. 642,132. Ferrotherm Company, Cleveland, Ohio. Filed Feb. 12, 1953.

Magic with Metals

For Annealing, Hardening, and Brazing of Metals.

Claims use since August 1948.

Ser. No. 642,133. Ferrotherm Company, Cleveland, Ohio. Filed Feb. 12, 1953.



For Annealing, Hardening, and Brazing of Metals.

Claims use since August 1948.

Ser. No. 649,954. Northern Dyeing Corporation, Washington, N. J. Filed July 7, 1953.

Characterized

For Dyeing Fabrics.

Claims use since Nov. 1, 1952.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 631,637. Robert Stevens, doing business under the name of Bailey Bros. Circus, Dallas, Tex. Filed June 23, 1952.

THAT GRAND OLD SHOW
Bailey Bros. CIRCUS

No claim is made to the word "Circus" apart from the mark shown in the drawing.

For Entertainment Service in the Nature of a Circus.

Claims use since 1933.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,793. Chemical and Detergent Preparation for Cleaning and Preparing Metal Surfaces for Painting. Neilson Chemical Company, Detroit, Mich.
Filed Oct. 13, 1945, Serial No. 489,918. Published July 9, 1946. Class 52.

ACT OF 1946, PRINCIPAL REGISTER

584,033. Candies. Cynthia Sweets Company, East Boston, Mass., assignor to Francis H. Leggett & Company, New York, N. Y., a corporation of New York.
Filed Oct. 28, 1947, Serial No. 539,286. Published Dec. 30, 1952. Class 46.

584,034. Cold Capsules for Relieving Fever, Headaches, and Muscular Aches Induced by Colds, and Having a Laxative Effect. Hy-Pure Laboratories, Inc., Cincinnati, Ohio.
Filed Mar. 8, 1948, Serial No. 551,455. Published Nov. 15, 1949. Class 18.

584,035. Automobiles in Knocked Down Form Packaged and Sold as a Unit. Harry A. Cohen, West Berlin, N. J.
Filed Mar. 4, 1949, Serial No. 574,896. Published Oct. 6, 1953. Class 19.

584,036. Scientific, Optical, Photographic, and Cinematographic Apparatus, and Parts of All the Aforementioned Apparatus, Etc. Les Appareils de Précision Kinoptik S. A., Paris, France.
Filed July 14, 1949, Serial No. 581,964. Published Aug. 4, 1953. Class 26.

584,037. Ammeters, Oil Pressure Gauges, Liquid Level Gauges, and Temperature Indicators for Indicating the Temperature of the Engine Coolant of Internal Combustion Engines. King-Seeley Corporation, Ann Arbor, Mich.
Filed Nov. 29, 1949, Serial No. 588,495. Published Aug. 4, 1953. Class 26.

584,038. Electronically Operated Plotting Apparatus, Etc. Telecomputing Corporation, Burbank, Calif.
Filed Mar. 29, 1950, Serial No. 594,870. Published Aug. 4, 1953. Class 26.

584,039. Roofing Devices—Namely, Wall Ties, Ridge Clips, and Gutter Hangers. Louis A. Tremmel, doing business as August Tremmel & Son, Biloxi, Miss.
Filed June 30, 1950, Serial No. 600,092. Published Aug. 18, 1953. Class 12.

584,040. Canned Berries; Canned and Bottled Fruits; Dried Fruits; Etc. Francis H. Leggett & Company, New York, N. Y.
Filed July 11, 1950, Serial No. 600,492. Published Mar. 25, 1952. Class 46.

584,041. Women's and Misses' Blouses, Jackets, Skirts, and Dresses. Steinfeld Blouse and Sportswear Corp., New York, N. Y.
Filed Aug. 22, 1950, Serial No. 602,573. Published June 12, 1951. Class 39.

584,042. Disposable Apertured Facial Masks of Fabric-Covered, Laminated Cellulosic Materials for Use in Soaking the Face With Warm Water or the Like. George B. Coggins, Asheville, N. C.
Filed Oct. 23, 1950, Serial No. 605,297. Published Sept. 15, 1953. Class 44.

584,043. Synthetic Resins Whether in the Form of Powders, Granules, Emulsions, Solutions, or Dispersions for Use in the Industrial Arts. Monsanto Chemical Company, St. Louis, Mo.
Filed Nov. 6, 1950, Serial No. 605,965. Published Oct. 6, 1953. Class 6.

584,044. Men's Suits, Sports and Leisure Jackets, Slacks and Walking Shorts. Caribbean Clothing Corporation, Mayaguez, P. R.
Filed Nov. 13, 1950, Serial No. 606,267. Published Mar. 18, 1952. Class 39.

584,045. Shoes and Slippers for Men, Women, and Children. Burlington County Shoe Corporation, Mount Holly, N. J.
Filed Dec. 1, 1950, Serial No. 607,155. Published Sept. 29, 1953. Class 39.

584,046. Lawn Grass Seed. Pedigreed Seed Co., New York, N. Y.
Filed Dec. 6, 1950, Serial No. 607,349. Published Aug. 18, 1953. Class 1.

584,047. Women's Hosiery. Mercantile Stores Company, Inc., Wilmington, Del.
Filed Jan. 8, 1951, Serial No. 608,308. Published Sept. 22, 1953. Class 39.

584,048. Thermostats. Pierce Laboratory, Inc., Raritan, N. J.
Filed Jan. 26, 1951, Serial No. 609,312. Published July 28, 1953. Class 26.

584,049. Camera Attachments and Accessories, Etc. The Kalart Company Inc., Plainville, Conn.
Filed Feb. 9, 1951, Serial No. 609,864. Published July 28, 1953. Class 26.

584,050. Shores (for Concrete Forms); Shore Clamps, Shore-Heads; Scaffolding Clamps; Etc. Lawrence S. Holmboe, doing business as Ellis (L. S.) Equipment Company, Oklahoma City, Okla.
Filed Feb. 12, 1951, Serial No. 609,976. Published Aug. 18, 1953. Class 12.

584,051. Automobiles, Trucks, Trailers, Trailer-Trucks. Maine Potato Growers, Inc., Presque Isle, Maine.
Filed Feb. 21, 1951, Serial No. 610,371. Published Oct. 6, 1953. Class 19.

584,052. Deodorant and Anti-Perspiration Preparations. David J. Roles, doing business as The Nice Company, Barton, Wis.
Filed Mar. 7, 1951, Serial No. 610,991. Published Aug. 25, 1953. Class 51.

584,053. Personal Deodorant. The Mennen Company, Newark, N. J.
Filed Mar. 30, 1951, Serial No. 612,026. Published Aug. 25, 1953. Class 51.

584,054. Toy Coin Banks. Vic Moran, Bradford, Pa.
Filed Apr. 18, 1951, Serial No. 612,814. Published Oct. 6, 1953. Class 22.

584,055. Machines for Dividing and Separating Clay—Namely, Grinders, Mills, Disintegrators, Etc. Baumat A. G., Zurich, Switzerland.
Filed Apr. 20, 1951, Serial No. 612,890. Published Apr. 21, 1953. Class 23.

584,056. Natural Trees. Edward H. Scanlon, doing business as Westlake Horticultural Estab., Cleveland, Ohio.
Filed May 8, 1951, Serial No. 613,652. Published Sept. 15, 1953. Class 1.

584,057. Fibrous Materials for Use in Thermal and Acoustical Insulation and Adhesives and Binders Sold as a Companion Product for Use Therewith in Thermal and Acoustical Insulation. Sprayo-Flake Company, Chicago, Ill.
Filed June 6, 1951, Serial No. 614,854. Published Aug. 18, 1953. Class 12.

584,058. Film Splicers, Film Winders for Use in Connection With Film Editors and Film Splicers, and Carrying Cases Specifically Designed To Carry Film Editors. The Kalart Company Inc., Plainville, Conn.
Filed June 26, 1951, Serial No. 615,712. Published Aug. 4, 1953. Class 26.

584,059. Nail Polish. Helen Neushaefer, Inc., College Point, N. Y., formerly A. Sartorius & Co., Inc.
Filed June 26, 1951, Serial No. 615,727. Published Aug. 25, 1953. Class 51.

584,060. Shoes of Leather, Fabric, and/or Combinations Thereof for Men, Women, and Children. International Shoe Company, St. Louis, Mo.
Filed July 10, 1951, Serial No. 616,292. Published Sept. 22, 1953. Class 39.

584,061. Lumber. Redwood Sales Company, San Francisco, Calif.
Filed Aug. 10, 1951, Serial No. 617,554. Published Aug. 18, 1953. Class 12.

584,062. Synthetic Detergent in Powder Form. Virginia-Carolina Chemical Corporation, Richmond, Va.
Filed Sept. 5, 1951, Serial No. 618,418. Published Oct. 6, 1953. Class 52.

584,063. Sun Glasses and Parts Thereof. Israel Frohlich, doing business as Global Optical Co., New York, N. Y.
Filed Sept. 13, 1951, Serial No. 618,737. Published Aug. 4, 1953. Class 26.

584,064. Strawberry Plants. Victor J. Judson, doing business as Judson Nurseries, Bristol, Ind.
Filed Sept. 25, 1951, Serial No. 619,202. Published Sept. 15, 1953. Class 1.

584,065. Liquid Coating for Metal and Through Which the Latter May Be Scribed. Dyestuffs and Chemicals, Inc., doing business as The Dykem Company, St. Louis, Mo.
Filed Oct. 17, 1951, Serial No. 620,093. Published Sept. 29, 1953. Class 6.

584,066. Fungicides, Fumigants for Destroying Vermin and Rodent Pests, Etc. Plant Protection Limited, Yalding, Kent, England.
Filed Oct. 19, 1951, Serial No. 620,231. Published Sept. 29, 1953. Class 6.

584,067. Electric Switch Mechanism for Switching Tracks for Model Trains. The Pioneer Company, Chicago, Ill.
Filed Oct. 27, 1951, Serial No. 620,551. Published Oct. 6, 1953. Class 22.

584,068. Men's and Women's Shoes. Joseph Shoes Inc., Boston, Mass.
Filed Oct. 26, 1951, Serial No. 620,559. Published Sept. 29, 1953. Class 39.

584,069. Animal Feed—Namely, Livestock Feed. Van Dusen Harrington Company, doing business under the name King Midas Feed Mills, Minneapolis, Minn.
Filed Dec. 13, 1951, Serial No. 622,469. Published Feb. 24, 1953. Class 46.

584,070. Temperature Responsive Mechanism for Controlling Automatic Refrigerators, Etc. Ranco Incorporated, Columbus, Ohio.
Filed Dec. 15, 1951, Serial No. 622,557. Published Aug. 18, 1953. Class 26.

584,071. Shirts, Coats, Jackets, Trousers, Caps, Sur-Coats, and Capes for Men, Women, and Children. Chippewa Falls Woolen Mill Company, Chippewa Falls, Wis.
Filed Dec. 26, 1951, Serial No. 622,804. Published Aug 11, 1953. Class 39.

584,072. Graphite. The Wickes Corporation, Saginaw, Mich.
Filed Jan. 4, 1952, Serial No. 623,222. Published Sept. 8, 1953. Class 1.

584,073. Surveying Instruments — Namely, Transits, Levels, Etc. Surveyor's Service Company, Los Angeles, Calif.
Filed Jan. 18, 1952, Serial No. 623,780. Published July 28, 1953. Class 26.

584,074. Life Insurance Bulletins Issued Monthly for the Use of Life Underwriters. Norman Sternberg, Newark, N. J.
Filed Jan. 23, 1952, Serial No. 623,994. Published Sept. 29, 1953. Class 38.

584,075. Perfume. Park Avenue Perfumers Associates, Detroit, Mich.
Filed Jan. 24, 1952, Serial No. 624,050. Published Sept. 15, 1953. Class 51.

584,076. Venetian Blind Components—Namely, Metal Venetian Blind Slat Stock. Lando Products, Inc., San Francisco, Calif.
Filed Jan. 29, 1952, Serial No. 624,239. Published Oct. 6, 1953. Class 14.

584,077. Venetian Blind Components—Namely, Metal Venetian Blind Slat Stock. Lando Products, Inc., San Francisco, Calif.
Filed Jan. 29, 1952, Serial No. 624,240. Published Oct. 6, 1953. Class 14.

584,078. Porcelain Vases; Chinaware—Namely, Flower Pots and Boxes, Dishes, Jars, Candy Boxes, All Made From Earthenware or Porcelain. Ardalt Inc., New York, N. Y.
Filed Feb. 6, 1952, Serial No. 624,584. Published Aug. 18, 1953. Class 30.

584,079. Porcelain Vases; Chinaware—Namely, Flower Pots and Boxes, Dishes, Jars, Candy Boxes, All Made From Earthenware or Porcelain. Ardalt Inc., New York, N. Y.
Filed Feb. 6, 1952, Serial No. 624,585. Published Aug. 18, 1953. Class 30.

584,080. Porcelain Vases; Chinaware—Namely, Flower Pots and Boxes, Dishes, Jars, Candy Boxes, All Made From Earthenware or Porcelain. Ardalt Inc., New York, N. Y.
Filed Feb. 6, 1952, Serial No. 624,586. Published Aug. 18, 1953. Class 30.

584,081. Porcelain Vases; Chinaware—Namely, Flower Pots and Boxes, Dishes, Jars, Candy Boxes, All Made From Earthenware or Porcelain. Ardalt Inc., New York, N. Y.
Filed Feb. 6, 1952, Serial No. 624,587. Published Aug. 18, 1953. Class 30.

584,082. Hair Tonic, After Shave Lotion, Estrogenic Hormone Cream, and Toilet Water. Jessop Products, Inc., New York, N. Y.
Filed Feb. 19, 1952, Serial No. 625,205. Published Sept. 15, 1953. Class 51.

584,083. Silver Cleaning Preparation in Liquid Form. Lewal Industries, Inc., New York, N. Y.
Filed Mar. 21, 1952, Serial No. 626,799. Published Sept. 15, 1953. Class 52.

584,084. Solvents for Sludges and Deposits. E. F. Houghton & Co., Philadelphia, Pa.
Filed Apr. 2, 1952, Serial No. 627,446. Published Sept. 29, 1953. Class 52.

584,085. Automotive Brake Blocks. Johns-Manville Corporation, New York, N. Y.
Filed Apr. 3, 1952, Serial No. 627,512. Published Oct. 6, 1953. Class 19.

584,086. Ladies' Hosiery. Maurice Rentner, Inc., New York, N. Y.
Filed Apr. 10, 1952, Serial No. 627,898. Published Apr. 7, 1953. Class 39.

584,087. Shoes Made of Leather, Rubber, Fabric, and/or Any Combinations Thereof for Men, Women, and Children. The Cambridge Rubber Company, Cambridge, Mass., and Taneytown, Md.
Filed Apr. 11, 1952, Serial No. 627,926. Published Sept. 29, 1953. Class 39.

584,088. Ophthalmic Lenses and Eyeglass Lenses. The Univis Lens Company, Dayton, Ohio.
Filed Apr. 15, 1952, Serial No. 628,134. Published Nov. 25, 1952. Class 26.

584,089. CONSOLIDATED CERTIFICATE. The Singer Manufacturing Company, Elizabeth, N. J.
Thermoplastic Material in the Form of Sheets and Strips. Filed Dec. 29, 1952, Serial No. 640,133. Published July 28, 1953. Class 1.
Dust Bags for Vacuum Cleaners, and Receptacles for Lubricants—Namely, Oil-Dispensing Cans, Collapsible Tubes, Barrels, Cans, and Cardboard Cartons and Boxes or Cases. Filed Apr. 23, 1952, Serial No. 628,562. Published May 12, 1953. Class 2.
Traveling Cases. Filed Apr. 23, 1952, Serial No. 628,563. Published Mar. 3, 1953. Class 3.
Emery Cord. Filed Apr. 23, 1952, Serial No. 628,564. Published May 19, 1953. Class 4.
Belt Hooks and Cabinet and Furniture Hardware—Namely, Hinges, Brackets, Braces, and Handles; and General Hardware—Namely, Studs, Bolts, Pins, Screws, and Nuts. Filed Apr. 23, 1952, Serial No. 628,566. Published May 5, 1953. Class 13.
Lubricating Oil and Greases. Filed Apr. 23, 1952, Serial No. 628,567. Published Apr. 28, 1953. Class 15.
Electric Motors, Electro-Mechanical Drives, Electric Transmitters, Etc. Filed May 6, 1952, Serial No. 629,259. Published Mar. 31, 1953. Class 21.
Toy Sewing Machines, Dolls, Dolls' Clothes, and Toy Traveling Cases. Filed Apr. 23, 1952, Serial No. 628,568. Published May 5, 1953. Class 22.
Family and Commercial Sewing Machines; Etc. Filed May 6, 1952, Serial No. 629,260. Published June 23, 1953. Class 23.
Pressing Machines for Pressing, Pleating, and Kilting Cloth; Ironing Boards, Sleeve Boards, Sleeve Board Pads, Sleeve Board Covers, and Ironing Board Covers; and Pressing Mitts. Filed Apr. 23, 1952, Serial No. 628,569. Published May 5, 1953. Class 24.
Locks and Keys. Filed Apr. 23, 1952, Serial No. 628,570. Published Aug. 4, 1953. Class 25.
Thermoelectric Testing Devices for Providing a Temperature Indication of Needles and the Like Tools During the Operation Thereof and Measuring Devices—Namely, Yardsticks. Filed Apr. 23, 1952, Serial No. 628,571. Published May 5, 1953. Class 26.
Cabinets, Stools, Chairs, Tables, Card Tables, and Mobile Work Racks. Filed Apr. 23, 1952, Serial No. 628,572. Published May 12, 1953. Class 32.
Room Heaters and Fans for Room Heaters. Filed Apr. 23, 1952, Serial No. 628,573. Published May 26, 1953. Class 34.
V-Belts, Cord Belts, Composition Belts, Round Leather Belts, and Power Transmission Belting. Filed Apr. 23, 1952, Serial No. 628,574. Published Oct. 7, 1952. Class 35.
Marking Chalk. Filed June 5, 1952, Serial No. 630,806. Published May 5, 1953. Class 37.
Books, Pamphlets, Educational Leaflets, Catalogs, Circulars, and Decalcomania Transfers. Filed Apr. 23, 1952, Serial No. 628,575. Published Apr. 7, 1953. Class 38.
Hand Sewing Needles; Needle Threaders; Needle Cases; Skirtmarkers; Buttons, Buckles, and Clasps; and Stocking Darning and Embroidery Hoops. Filed May 6, 1952, Serial No. 629,261. Published May 5, 1953. Class 40.
Piece Goods of Wool, Cotton, Silk, and Synthetic Fibers. Filed June 2, 1952, Serial No. 630,622. Published May 12, 1953. Class 42.
Sewing Thread. Filed June 2, 1952, Serial No. 630,623. Published May 12, 1953. Class 43.
Surgical Stitching Instruments, Their Parts and Attachments—Namely, Needles, Bobbins, and Bobbin Winders; and Manicuring Scissors. Filed Apr. 23, 1952, Serial No. 628,576. Published May 19, 1953. Class 44.
Dress Forms and Dress Form Stands. Filed Apr. 23, 1952, Serial No. 628,577. Published Feb. 24, 1953. Class 50.
Petroleum Derivative for Use in Cleaning Metallic Machine Elements. Filed Apr. 23, 1952, Serial No. 628,565. Published May 19, 1953. Class 52.

584,090. Women's Shoes. Jeremiah G. Menihan, Rochester, N. Y.
Filed Apr. 30, 1952, Serial No. 628,951. Published Sept. 8, 1953. Class 39.

584,091. Paint for Waterproofing Concrete Products Such as Shingles Made of Asbestos-Concrete. Ceramatex Manufacturing Corporation, Birmingham, Ala.
Filed May 8, 1952, Serial No. 629,353. Published Sept. 22, 1953. Class 16.

584,092. Brazing Metal Alloys, Bearing Metal Alloys, Babbitt Metals, and White Metal Alloys, Used as Anti-Frictional Media. Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y.
Filed May 9, 1952, Serial No. 629,438. Published Oct. 6, 1953. Class 14.

584,093. Aluminum Castings. Wheel Craft Corporation, Azusa, Calif.
Filed May 10, 1952, Serial No. 629,536. Published Oct. 6, 1953. Class 14.

584,094. Thermosetting Resins in the Forms of Granules and Powders. Capital Plastics, Inc., Rochester, N. Y.
Filed May 14, 1952, Serial No. 629,649. Published June 9, 1953. Class 6.

584,095. Flexible Floor and Wall Coverings in the Nature of Linoleum and Felt Base Having Wear-Resistant Composition, Coated or Printed Surfaces. Congoleum-Nairn Inc., Kearny, N. J.
Filed May 29, 1952, Serial No. 630,478. Published Sept. 15, 1953. Class 20.

584,096. Cigar and/or Cigarette Lighters, Especially Pyrophoric Lighters and Their Parts. Marcel Quercia, Paris, France.
Filed May 24, 1952, Serial No. 630,648. Published Aug. 11, 1953. Class 8.

584,097. Steel—Namely, Plates, Sheets, Bars, and Strips. Inland Steel Company, Chicago, Ill.
Filed June 6, 1952, Serial No. 630,846. Published Oct. 6, 1953. Class 14.

584,098. Hair Coloring Powder. Contress, Inc., New York, N. Y.
Filed June 9, 1952, Serial No. 630,923. Published Sept. 15, 1953. Class 51.

584,099. Lubricant for Internal Combustion Engines. Royal Engineering Co., East Hanover, N. J.
Filed June 9, 1952, Serial No. 630,961. Published Sept. 15, 1953. Class 15.

584,100. Extruded and Rolled Metal Moldings for Architectural Use. Trimedge, Inc., Youngstown, Ohio.
Filed June 9, 1952, Serial No. 630,974. Published Sept. 15, 1953. Class 12.

584,101. Extruded and Rolled Metal Moldings for Architectural Use Having a Corrosion-Resistant Finish. Trimedge, Inc., Youngstown, Ohio.
Filed June 9, 1952, Serial No. 630,975. Published Sept. 15, 1953. Class 12.

584,102. Misses' and Ladies' Coats and Suits. Kroywen Coats, Inc., New York, N. Y.
Filed June 24, 1952, Serial No. 631,669. Published Jan. 20, 1953. Class 39.

584,103. Cutting Oil. Gulf Oil Corporation, Pittsburgh, Pa.
Filed June 27, 1952, Serial No. 631,862. Published Sept. 15, 1953. Class 15.

584,104. Perfumes and Deodorants. Bronislawa Wolocko, doing business as Bronislawa, Salem, Mass.
Filed July 5, 1952, Serial No. 632,150. Published Sept. 22, 1953. Class 51.

584,105. Nasopharyngoscopes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed July 10, 1952, Serial No. 632,343. Published Sept. 8, 1953. Class 44.

584,106. Lithotrites and Rongeurs. American Cystoscope Makers, Inc., New York, N. Y.
Filed July 10, 1952, Serial No. 632,345. Published Sept. 8, 1953. Class 44.

584,107. Endoscopes and Components Thereof. American Cystoscope Makers, Inc., New York, N. Y.
Filed July 10, 1952, Serial No. 632,346. Published Sept. 8, 1953. Class 44.

584,108. Hosiery for Women and Girls. California Underwear Company, Inc., Dallas, Tex.
Filed July 12, 1952, Serial No. 632,465. Published Sept. 29, 1953. Class 39.

584,109. Optical Frames. Duroloid Optical Company, Providence, R. I.
Filed July 21, 1952, Serial No. 632,833. Published Aug. 4, 1953. Class 26.

584,110. Prefabricated, or Pre-Cut Homes. Martin Capp, doing business as M. Capp Manufacturing Co., Minneapolis, Minn.
Filed July 23, 1952, Serial No. 632,918. Published Sept. 15, 1953. Class 12.

584,111. Opaque Eye Shields. Madison Products Company, Toledo, Ohio, assignor to Lucas Products Corporation, Toledo, Ohio, a corporation of Ohio.
Filed July 26, 1952, Serial No. 633,112. Published Sept. 15, 1953. Class 44.

584,112. Linoleum, Felt Base, and Similar Flexible Floor and Wall Coverings Having a Wear Resistant Composition, Coated or Printed Surfaces. Congoleum-Nairn, Inc., Kearny, N. J.
Filed July 29, 1952, Serial No. 633,196. Published Sept. 8, 1953. Class 20.

584,113. Ear Drum Protectors for Therapeutic Purposes, and Athletic Supporters. Nat P. Steckler, doing business under the name and style of E-Z Products, New York, N. Y.
Filed July 29, 1952, Serial No. 633,224. Published Sept. 15, 1953. Class 44.

584,114. Boots, Shoes, and Slippers for Men, Women, or Children. Brevitt Shoes Limited, Leicester, England. Priority under Sec. 44(d). British Registration No. 707,904, filed June 6, 1952.
Filed June 24, 1952, Serial No. 633,237. Published Sept. 29, 1953. Class 39.

584,115. Copper Bearing Ferrous Base Alloy Sheets Coated With Zinc. National Steel Corporation, Wilmington, Del., and Pittsburgh, Pa.
Filed Aug. 1, 1952, Serial No. 633,373. Published Oct. 6, 1953. Class 14.

584,116. Hand-Made Sandals for Men, Women, Misses, and Children. Pekay Leather Products, Inc., doing business as Saddle-Craft Shoe Company, Knoxville, Tenn.
Filed Aug. 6, 1952, Serial No. 633,554. Published Sept. 1, 1953. Class 39.

584,117. Metal Plates, Sections or Bars, and Metal Tubing Stock. Colvilles Limited, Glasgow, Scotland, Great Britain.
Filed Aug. 12, 1952, Serial No. 633,753. Published Oct. 6, 1953. Class 14.

584,118. Fracture and Surgical Appliances—Namely, Splints, Cushioned Walking Heels, Stainless Steel Nails and Screws, and Traction and Extension Apparatus. Rajowalt Company, Warsaw, Ind.
Filed Aug. 2, 1952, Serial No. 634,019. Published Sept. 15, 1953. Class 44.

584,119. Catalyst in Powder or Ingot or Lump Form Comprising an Alloy of Aluminum With Nickel, Copper, Cobalt, or Iron. Murray Raney, sometimes doing business as The Raney Catalyst Company, Chattanooga, Tenn.
Filed Aug. 12, 1952, Serial No. 634,023. Published Oct. 6, 1953. Class 6.

584,120. Vehicular Steering Connections With Universal or Ball and Socket Joints, Drag Links, and Tie Rods, and Parts Therefor. The Columbus Auto Parts Company, Columbus, Ohio.
Filed Sept. 2, 1952, Serial No. 634,730. Published Oct. 6, 1953. Class 19.

584,121. Scarab Jewelry—Namely, Scarab Earrings, Bracelets, Necklaces, Pendants, Lapel Pins, Finger Rings, and Cuff Links. Albert Adler, Philadelphia, Pa.
Filed Sept. 10, 1952, Serial No. 635,079. Published Mar. 3, 1953. Class 28.

584,122. Cement Additive and Extender for Use in Cementing Wells. BJ Service, Inc., Long Beach, Calif.
Filed Sept. 13, 1952, Serial No. 635,215. Published Aug. 18, 1953. Class 12.

584,123. Shoes for the Use of Men, Women, and Children, Made of Leather, Fabric, and Combinations Thereof. General Shoe Corporation, Nashville, Tenn.
Filed Sept. 15, 1952, Serial No. 635,259. Published Sept. 29, 1953. Class 39.

584,124. Canned Mixed Vegetables. The Larsen Company, Green Bay, Wis.
Filed Sept. 17, 1952, Serial No. 635,366. Published Sept. 29, 1953. Class 46.

584,125. Passenger Automobiles and Structural Parts Thereof. Ford Motor Company Limited, London, England.
Filed Sept. 23, 1952, Serial No. 635,642. Published Oct. 6, 1953. Class 19.

584,126. Men's Suits. H. Freeman & Son, Inc., Philadelphia, Pa.
Filed Sept. 23, 1952, Serial No. 635,645. Published Sept. 29, 1953. Class 39.

584,127. Packaged Door Units, Consisting of Door, Frame, Trim, and Hardware Attached. Bond-Howell Lumber Company, Jacksonville, Fla., assignor to Con-Dor Corporation of America, Jacksonville, Fla., a corporation of Florida.
Filed Sept. 24, 1952, Serial No. 635,682. Published Sept. 15, 1953. Class 12.

584,128. Rod and Wire Formed of Nickel-Iron Alloys, for Use in Welding. Wilbur B. Driver Company, Newark, N. J.
Filed Sept. 25, 1952, Serial No. 635,747. Published Oct. 6, 1953. Class 14.

584,129. Liquid Hair Bleach. Richard Hudnut, New York, N. Y.
Filed Sept. 25, 1952, Serial No. 635,767. Published Aug. 4, 1953. Class 51.

584,130. Nail Polish, Nail Polish Remover, Cuticle Cleanser, Cuticle Lubricator, Perspiration Cream and Deodorant, Hair Rinse, Hair Oil, Perfume, Cologne, and Toilet Water. Beauty Counselors, Inc., Grosse Pointe, Mich.
Filed Oct. 2, 1952, Serial No. 636,059. Published Sept. 15, 1953. Class 51.

584,131. Grass Seeds. Druid Hill Park Seed Corporation, also doing business as Cover Lawn Seed Company, Baltimore, Md.
Filed Oct. 6, 1952, Serial No. 636,212. Published Sept. 8, 1953. Class 1.

584,132. Grass Seeds. Druid Hill Park Seed Corporation, also doing business as Cover Lawn Seed Company, Baltimore, Md.
Filed Oct. 6, 1952, Serial No. 636,213. Published Sept. 8, 1953. Class 1.

584,133. Men's Shoes. Bates Shoe Company, Webster, Mass.
Filed Oct. 7, 1952, Serial No. 636,268. Published Sept. 1, 1953. Class 39.

584,134. Plywood and Plywood Blocks for Flooring. Lacey Plywood Company, Inc., Lacey, Wash.
Filed Oct. 23, 1952, Serial No. 637,053. Published Aug. 18, 1953. Class 12.

584,135. T-Shirts, Vests, Cardigans, Undershirts, and Drawers for Men, Women, and Children. William W. Artzt, New York, N. Y.
Filed Nov. 1, 1952, Serial No. 637,473. Published Sept. 29, 1953. Class 39.

584,136. Glass Jalousie Windows and Doors. Harry van der Gaast, doing business as H. van der Gaast & Co., Miami, Fla.
Filed Nov. 13, 1952, Serial No. 638,025. Published Aug. 18, 1953. Class 12.

584,137. Women's Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials. The Selby Shoe Company, Portsmouth, Ohio.
Filed Nov. 21, 1952, Serial No. 638,441. Published Sept. 22, 1953. Class 39.

584,138. Tobacco Pipes. H. Comoy & Co., Limited, London, England.
Filed Dec. 5, 1952, Serial No. 639,019. Published Sept. 29, 1953. Class 8.

584,139. Formaldehyde Polymers. Heyden Chemical Corporation, New York, N. Y.
Filed Dec. 5, 1952, Serial No. 639,044. Published Sept. 29, 1953. Class 6.

584,140. Formaldehyde Polymers. Heyden Chemical Corporation, New York, N. Y.
Filed Dec. 5, 1952, Serial No. 639,045. Published Sept. 29, 1953. Class 6.

584,141. Formaldehyde Polymers. Heyden Chemical Corporation, New York, N. Y.
Filed Dec. 5, 1952, Serial No. 639,046. Published Sept. 29, 1953. Class 6.

584,142. Formaldehyde Polymers. Heyden Chemical Corporation, New York, N. Y.
Filed Dec. 5, 1952, Serial No. 639,047. Published Sept. 29, 1953. Class 6.

584,143. Adhesive for Use in Installing Floor Tile. Kentile, Inc., Brooklyn, N. Y.
Filed Dec. 8, 1952, Serial No. 639,175. Published Oct. 6, 1953. Class 5.

584,144. Textile Cloth Made of Glass Fibres for Use With Other Raw Materials Including Chemicals in Making Reinforced Plastics. Madagascar Graphite and Mica Company, New York, N. Y.
Filed Dec. 8, 1952, Serial No. 639,181. Published Sept. 15, 1953. Class 1.

584,145. Molded Masonry Building Blocks and Bricks. The Burns & Russell Company of Baltimore City, Baltimore, Md.
Filed Dec. 16, 1952, Serial No. 639,552. Published Aug. 18, 1953. Class 12.

584,146. Lawn Seed Mixture. Lee Patten Seed Company, Jersey City, N. J.
Filed Dec. 16, 1952, Serial No. 639,577. Published Sept. 8, 1953. Class 1.

584,147. Lawn Seed Mixture. Lee Patten Seed Company, Jersey City, N. J.
Filed Dec. 16, 1952, Serial No. 639,579. Published Sept. 8, 1953. Class 1.

584,148. Lawn Seed Mixture. Lee Patten Seed Company, Jersey City, N. J.
Filed Dec. 16, 1952, Serial No. 639,580. Published Sept. 8, 1953. Class 1.

584,149. Building Stone. Von B. Graham, doing business as The Texas Ledge Stone Co., Clarksville, Ark.
Filed Dec. 18, 1952, Serial No. 639,698. Published Aug. 18, 1953. Class 12.

584,150. Pads Formed of Metallic Filaments for Garment Pressing Machines. X. S. Smith, Inc., Red Bank, N. J.
Filed Dec. 20, 1952, Serial No. 639,847. Published Oct. 6, 1953. Class 24.

584,151. Pads Formed of Metallic Filaments for Garment Pressing Machines. X. S. Smith, Inc., Red Bank, N. J.
Filed Dec. 20, 1952, Serial No. 639,848. Published Oct. 6, 1953. Class 24.

584,152. Liquid Shampoo. Linnea Perfumes, Inc., Chicago, Ill.
Filed Dec. 29, 1952, Serial No. 640,128. Published Oct. 6, 1953. Class 52.

584,153. Structural Glass Panels Made From Glass Fiber Reinforced Plastic Material. Alexander H. Kerr and Company, Incorporated, Los Angeles, Calif.
Filed Dec. 30, 1952, Serial No. 640,160. Published June 23, 1953. Class 12.

584,154. Water Repellent Baby Pants. Rand Rubber Company, Inc., trading as Rand Rubber Co., Brooklyn, N. Y.
Filed Dec. 30, 1952, Serial No. 640,168. Published Sept. 1, 1953. Class 39.

584,155. Phosphatic Fat-Binding Agent for Use in the Manufacture of Sausage and Canned Meat Products. Darmenindustrie H. Vaessen, Deventer, Netherlands.
Filed Jan. 2, 1953, Serial No. 640,261. Published Sept. 29, 1953. Class 46.

584,156. Chemical Product for Removing Rust and Scale From Metal Surfaces. Inter-Coastal Paint Corporation, East St. Louis, Ill.
Filed Jan. 2, 1953, Serial No. 640,277. Published Oct. 6, 1953. Class 52.

584,157. Finished Lumber. D. L. Fair Lumber Company, Louisville, Miss.
Filed Jan. 6, 1953, Serial No. 640,394. Published Aug. 18, 1953. Class 12.

584,158. Arbors, Pergolas, Trellises, Trellis Kits (Knocked Down Trellises for Assembly), Benches, Fence Stakes, Fence Pickets, Fence Gates (All Made of Wood). Sears, Roebuck and Co., Chicago, Ill.
Filed Jan. 9, 1953, Serial No. 640,587. Published Aug. 18, 1953. Class 12.

584,159. Diamonds, Diamond Rings, Wedding Rings, and Diamond Pins. J. W. Hamilton, Columbia, S. C.
Filed Jan. 13, 1953, Serial No. 640,681. Published June 23, 1953. Class 28.

584,160. Diamonds, Diamond Rings, Wedding Rings, and Diamond Pins. J. W. Hamilton, Columbia, S. C.
Filed Jan. 13, 1953, Serial No. 640,682. Published June 23, 1953. Class 28.

584,161. Building Columns of Steel or Iron Filled With Concrete or Other Plastic Material. Lally Column Co., Cambridge, Mass.
Filed Jan. 16, 1953, Serial No. 640,862. Published Aug. 18, 1953. Class 12.

584,162. Men's Work Shirts. Troutman Garment Company, Troutman, N. C.
Filed Jan. 19, 1953, Serial No. 640,978. Published Sept. 22, 1953. Class 39.

584,163. Shingles. British Columbia Forest Products Limited, Vancouver, British Columbia, Canada.
Filed Jan. 21, 1953, Serial No. 641,009. Published Aug. 18, 1953. Class 12.

584,164. Aluminum Windows. E. H. Darby, trading as E. H. Darby & Company, Sheffield, Ala.
Filed Jan. 23, 1953, Serial No. 641,177. Published Aug. 18, 1953. Class 12.

584,165. Fresh Citrus Fruits. Deerfield Groves Company, Wabasso, Fla.
Filed Jan. 27, 1953, Serial No. 641,371. Published Apr. 7, 1953. Class 46.

584,166. Self-Polishing Wax for Creating a Glossy Protective Coating on Floor Surfaces. National Laboratories, Inc., Toledo, Ohio.
Filed Jan. 28, 1953, Serial No. 641,460. Published Sept. 15, 1953. Class 4.

584,167. Sun-Glasses. Daniel J. Capozzi, doing business under the name of Danvin Associates, New York, N. Y.
Filed Feb. 4, 1953, Serial No. 641,715. Published Aug. 4, 1953. Class 26.

584,168. Finely Granulated Calcite Limestone. Limestone Products Corporation of America, Newton, N. J.
Filed Feb. 6, 1953, Serial No. 641,851. Published Sept. 8, 1953. Class 1.

584,169. Dress Patterns. The New Way Pattern Company, Inc., New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,950. Published Aug. 4, 1953. Class 26.

584,170. Children's or Juvenile Shoes Made of Leather and Cloth. W. B. Coon Company, Rochester, N. Y.
Filed Feb. 10, 1953, Serial No. 642,019. Published Sept. 29, 1953. Class 39.

584,171. Powder Containing Calcium Hydroxide and Thymol (as Active Ingredients) for Use in Pulp Capping and Cavity Lining. Donald F. Rohlfs, Bridgehampton, N. Y.
Filed Feb. 12, 1953, Serial No. 642,168. Published Oct. 6, 1953. Class 44.

584,172. Refractory Bricks and Blocks. The Robinson Clay Product Co., Akron, Ohio.
Filed Feb. 13, 1953, Serial No. 642,243. Published Aug. 18, 1953. Class 12.

584,173. Sulfonic Acid. Ultra Chemical Works, Inc., Paterson, N. J.
Filed Feb. 16, 1953, Serial No. 642,324. Published Sept. 29, 1953. Class 6.

584,174. Lagging Cloth and Lagging Tape. Benjamin Foster Company, Philadelphia, Pa.
Filed Feb. 17, 1953, Serial No. 642,346. Published Aug. 18, 1953. Class 12.

584,175. Men's Hosiery. Charles Brand and Sons, New York, N. Y.
Filed Feb. 24, 1953, Serial No. 642,609. Published Sept. 22, 1953. Class 39.

584,176. Metal Lath. Wheeling Corrugating Company, Wheeling, W. Va.
Filed Feb. 25, 1953, Serial No. 642,790. Published Sept. 1, 1953. Class 12.

584,177. Fructose in Solution for Parenteral Administration. Mead Johnson & Company, Evansville, Ind.
Filed Feb. 26, 1953, Serial No. 642,829. Published Sept. 29, 1953. Class 18.

584,178. Antibiotic Derivative. Chas. Pfizer & Co., Inc., Brooklyn, N. Y.
Filed Feb. 27, 1953, Serial No. 642,899. Published Sept. 29, 1953. Class 18.

584,179. Sanitizing Detergent. The Steri-Wite Corporation, New York, N. Y.
Filed Mar. 2, 1953, Serial No. 643,002. Published Sept. 15, 1953. Class 52.

584,180. Plywood and Door Panels. Wisconsin Door Company, Livonia, Mich.
Filed Mar. 2, 1953, Serial No. 643,013. Published Aug. 25, 1953. Class 12.

584,181. Cigarettes. Philip Morris & Co. Ltd., Incorporated, New York, N. Y.
Filed Mar. 3, 1953, Serial No. 643,043. Published Sept. 8, 1953. Class 17.

584,182. Gardenia Plants. Mary P. Rogers, Hilo, Territory of Hawaii.
Filed Mar. 9, 1953, Serial No. 643,375. Published Sept. 8, 1953. Class 1.

584,183. Women's Coats and Suits. Louis Walter & Co., Inc., Kansas City, Mo.
Filed Mar. 9, 1953, Serial No. 643,387. Published Sept. 1, 1953. Class 39.

584,184. Glass Fiber Matted Sheet Materials. The Ferro Corporation, Cleveland, Ohio.
Filed Mar. 10, 1953, Serial No. 643,415. Published Sept. 8, 1953. Class 1.

584,185. Salad Dressing. Edith Harman, Springfield, Mo.
Filed Mar. 12, 1953, Serial No. 643,547. Published Sept. 29, 1953. Class 46.

584,186. Asbestos-Cement Sheets in Smooth, Rough, and Corrugated Forms. Keasbey & Mattison Company, Ambler, Pa.
Filed Mar. 13, 1953, Serial No. 643,595. Published Aug. 18, 1953. Class 12.

584,187. Ladies' Full Fashioned and Seamless Nylon Hosiery. The Roxborough Company, Philadelphia, Pa.
Filed Mar. 13, 1953, Serial No. 643,612. Published Sept. 22, 1953. Class 39.

584,188. Medicinal Preparation in Tablet Form for Treatment of Spasticity and Parkinson's Disease. Chicago Pharmacal Company, Chicago, Ill.
Filed Mar. 16, 1953, Serial No. 643,645. Published Sept. 29, 1953. Class 18.

584,189. Vitamin Compounds and Vitamin Preparations. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Mar. 16, 1953, Serial No. 643,669. Published Sept. 22, 1953. Class 18.

584,190. Plasticizers for Use in Plastics, Fatty Acids, and Glycerine. Hatco Chemical Company, Township of Kearny, Hudson County, N. J.
Filed Mar. 16, 1953, Serial No. 643,682. Published Sept. 29, 1953. Class 6.

584,191. Sliding Glass Doors. T. V. Walker & Son, Inc., Burbank, Calif.
Filed Mar. 16, 1953, Serial No. 643,743. Published Sept. 22, 1953. Class 12.

584,192. Paint Additive. Western Mineral Products Company, Minneapolis, Minn.
Filed Mar. 16, 1953, Serial No. 643,745. Published Sept. 15, 1953. Class 16.

584,193. Candles. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y.
Filed Mar. 17, 1953, Serial No. 643,772. Published Sept. 15, 1953. Class 15.

584,194. Candles. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y.
Filed Mar. 17, 1953, Serial No. 643,778. Published Sept. 15, 1953. Class 15.

584,195. Candles. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y.
Filed Mar. 17, 1953, Serial No. 643,780. Published Sept. 15, 1953. Class 15.

584,196. Medicated Skin Cream. Purepac Corporation, New York, N. Y.
Filed Mar. 17, 1953, Serial No. 643,790. Published Sept. 29, 1953. Class 18.

584,197. Medicinal Preparation for Use in Management of Anxiety and Tension States and To Relax Muscle Spasm, Interrupt Reflex Pain and Allow Greater Joint Mobility in Neuro-Muscular and Rheumatic Conditions. M. W. Adams Company, doing business under the name of The Adams Co., Philadelphia, Pa.
Filed Mar. 18, 1953, Serial No. 643,805. Published Sept. 29, 1953. Class 18.

584,198. Antiseptic and Medicated Deodorant. Joseph Agosta, Astoria, N. Y.
Filed Mar. 18, 1953, Serial No. 643,807. Published Oct. 6, 1953. Class 18.

584,199. Men's Hosiery. Holeproof Hosiery Company, Milwaukee, Wis.
Filed Mar. 18, 1953, Serial No. 643,840. Published Sept. 22, 1953. Class 39.

584,200. Tile, and Particularly Ornamental Tile. Oscar J. Terriere, Rapid City, S. Dak.
Filed Mar. 20, 1953, Serial No. 643,986. Published Sept. 22, 1953. Class 12.

584,201. Window Sash Which Is Slidably and Pivotally Mounted, and the Sash Mounting. A. M. S. Corporation, South Norwalk, Conn.
Filed Mar. 23, 1953, Serial No. 643,995. Published Sept. 22, 1953. Class 12.

584,202. Acoustical Insulation Formed of Bonded Fibrous Material. Gustin-Bacon Manufacturing Company, Kansas City, Mo.
Filed Mar. 23, 1953, Serial No. 644,031. Published Aug. 18, 1953. Class 12.

584,203. Cortisone Acetate Compound for General Hormone Therapy. Schenley Laboratories, Inc., New York, N. Y.
Filed Mar. 23, 1953, Serial No. 644,069. Published Sept. 22, 1953. Class 18.

584,204. Vaginal Douche Powder. Amfre Drug Co., Inc., New York, N. Y.
Filed Mar. 24, 1953, Serial No. 644,092. Published Sept. 29, 1953. Class 18.

584,205. Insecticides, Fungicides. Insecticides Company, Nashville, Tenn.
Filed Mar. 24, 1953, Serial No. 644,120. Published Oct. 6, 1953. Class 6.

584,206. Metal Timber Connectors. Timber Engineering Company, Washington, D. C.
Filed Mar. 25, 1953, Serial No. 644,199. Published Aug. 18, 1953. Class 12.

584,207. Rubber-To-Fabric Latex Dips and Rubber, Plastic, and Resin Adhesive Dispersions and Solutions. The General Tire & Rubber Company, Akron, Ohio.
Filed Mar. 26, 1953, Serial No. 644,231. Published Oct. 6, 1953. Class 5.

584,208. Printing Type. Bauer Alphabets Inc., New York, N. Y.
Filed Mar. 27, 1953, Serial No. 644,275. Published Oct. 6, 1953. Class 14.

584,209. Ready-Mixed Paint, Varnishes, Wood Stains, Rubber Base Paint, and Paint Enamels. Duron Paint Manufacturing Company, Washington, D. C.
Filed Mar. 30, 1953, Serial No. 644,396. Published Sept. 15, 1953. Class 16.

584,210. Ready-Mixed Paint, Varnishes, Wood Stains, Rubber Base Paint, and Paint Enamels. Duron Paint Manufacturing Company, Washington, D. C.
Filed Mar. 30, 1953, Serial No. 644,397. Published Sept. 15, 1953. Class 16.

584,211. Men's and Young Men's Top Coats, Sport Coats, and Overcoats. Goodman & Suss Clothes Corporation, New York, N. Y.
Filed Mar. 30, 1953, Serial No. 644,413. Published Sept. 22, 1953. Class 39.

584,212. Fuel Oil Additives for Dissolving Gums, Sludge, and Tars and Increasing Combustion Efficiency. National Chemical Company, Los Angeles, Calif.
Filed Mar. 30, 1953, Serial No. 644,434. Published Sept. 15, 1953. Class 15.

584,213. Seal Rings. Minnesota Rubber and Gasket Co., St. Louis Park, Minn.
Filed Apr. 1, 1953, Serial No. 644,562. Published Sept. 29, 1953. Class 35.

584,214. Shoe Soles of Rubber or Rubberlike Composition. American Biltrite Rubber Co., Inc., Chelsea, Mass.
Filed Apr. 2, 1953, Serial No. 644,589. Published Sept. 29, 1953. Class 39.

584,215. Insecticides, Fungicides, and Disinfectants. Rohm & Haas Company, Philadelphia, Pa.
Filed Apr. 7, 1953, Serial No. 644,870. Published Oct. 6, 1953. Class 6.

584,216. Girls' and Misses' and Women's Coats. Smart Maid Coat & Suit Corp., New York, N. Y.
Filed Apr. 9, 1953, Serial No. 645,012. Published Sept. 29, 1953. Class 39.

584,217. Water Repellent Hats and Caps for Men, Women, Youths, Misses, and Children. Harris Raincoat Company, Incorporated, New York, N. Y.
Filed Apr. 14, 1953, Serial No. 645,245. Published Sept. 29, 1953. Class 39.

584,218. Pharmaceutical Preparations Which Supply Nutritional Needs—Namely, Precooked, Dried Cereal Products Containing Vitamins and Essential Minerals; Etc. Mead Johnson & Company, Evansville, Ind.
Filed Apr. 17, 1953, Serial No. 645,494. Published Sept. 29, 1953. Class 18.

584,219. Pharmaceutical Preparations Which Supply Nutritional Needs—Namely, Precooked, Dried Cereal Products Containing Vitamins and Essential Minerals; Etc. Mead Johnson & Company, Evansville, Ind.
Filed Apr. 17, 1953, Serial No. 645,495. Published Sept. 29, 1953. Class 18.

584,220. Books and Booklets. Hydroponic Chemical Company, Inc., Copley, Ohio.
Filed Apr. 21, 1953, Serial No. 645,649. Published Sept. 29, 1953. Class 38.

584,221. Soil Conditioners and Fertilizers. Arachem Products, San Diego and East San Diego, Calif.
Filed Apr. 28, 1953, Serial No. 646,041. Published Oct. 6, 1953. Class 10.

584,222. Car Bodies, Motor Cars, Motor Cycles, Bicycles, Motor Trucks. Alfa Romeo Società per Azioni, Milan, Italy.
Priority under Sec. 44(d). Italian Registration No. 111,219, filed Dec. 13, 1952.
Filed Apr. 29, 1953, Serial No. 646,098. Published Oct. 6, 1953. Class 19.

584,223. Insecticides. Gulf Oil Corporation, Pittsburgh, Pa.
Filed Apr. 29, 1953, Serial No. 646,127. Published Oct. 6, 1953. Class 6.

584,224. Chemical Compositions—Namely, Iodine Plus Polyethoxy Polypropoxy Ethanol, in Liquid and Powder Form. West Disinfecting Company, Long Island City, N. Y.
Filed Apr. 29, 1953, Serial No. 646,184. Published Oct. 6, 1953. Class 6.

584,225. Liquid Insecticide. West Disinfecting Company, Long Island City, N. Y.
Filed Apr. 29, 1953, Serial No. 646,185. Published Oct. 6, 1953. Class 6.

584,226. Liniment for External Use. Clifton L. Sineath, Saluda, S. C.
Filed May 5, 1953, Serial No. 646,495. Published Oct. 6, 1953. Class 18.

584,227. Dolls. The Sun Rubber Company, Barberton, Ohio.
Filed May 12, 1953, Serial No. 646,901. Published Oct. 6, 1953. Class 22.

584,228. Dolls. The Sun Rubber Company, Barberton, Ohio.
Filed May 12, 1953, Serial No. 646,905. Published Oct. 6, 1953. Class 22.

584,229. House Trailers. Roadcraft Corporation, Gardena, Calif.
Filed May 21, 1953, Serial No. 647,448. Published Oct. 6, 1953. Class 19.

584,230. Flexible Hose Formed at Least in Part of Metal. Davis Specialties Incorporated, Chicago, Ill.
Filed May 11, 1953, Serial No. 647,573. Published Sept. 29, 1953. Class 35.

584,231. Ventriloquist Dummies. Jimmy Nelson Enterprises, Inc., Chicago, Ill.
Filed June 24, 1953, Serial No. 649,321. Published Oct. 6, 1953. Class 22.

584,232. Fishing Lines, Fishing Rods, and Fishing Reels. Marshall-Wells Company, Duluth, Minn.
Filed June 29, 1953, Serial No. 649,523. Published Oct. 6, 1953. Class 22.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

584,233. (Class 2. Receptacles.) McIntyre Dairy Company, Saginaw, Mich. Original filed, act of 1946, Principal Register, Oct. 31, 1950; amended to application, Supplemental Register, Apr. 7, 1953, Serial No. 605,667.

"TOY-VILLE"

For Collapsible Cardboard Cartons.
Claims use since Sept. 9, 1950.

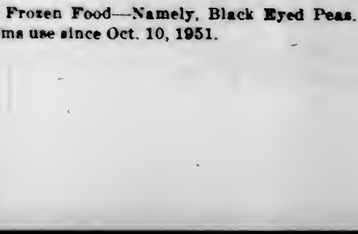
584,234. (Class 28. Jewelry and Precious-Metal Ware.) Miller Manufacturing Co., East Providence, R. I. Original filed, act of 1946, Principal Register, Dec. 15, 1950; amended to application, Supplemental Register, Oct. 22, 1953, Serial No. 607,715.

For Jewelry for Personal Wear, Not Including Watches—Namely, Bracelets, Necklaces, Tiaras, Earrings, Ornamental Pins, Hair Ornaments, Brooches, Anklets, and Pendants.
Claims use since on or about Oct. 1, 1946.

584,235. (Class 46. Foods and Ingredients of Foods.) Filler Products, Inc., Atlanta, Ga. Original filed, act of 1946, Principal Register, Dec. 22, 1950; amended to application, Supplemental Register, Feb. 8, 1952, Serial No. 607,985.

For Fried Bacon Rinds.
Claims use since June 15, 1950.

584,236. (Class 12. Construction Materials.) Shalite Corporation, Knoxville, Tenn. Original filed, act of 1946, Principal Register, Nov. 24, 1951; amended to application, Supplemental Register, June 26, 1953, Serial No. 621,635.



The drawing is lined for the color red.
For Aggregate and Articles Manufactured From Such Aggregate—Namely, Concrete Masonry Units Comprising Architectural Trim, Blocks, Brick, Coping Tile, Floor Slabs, Joists, Lintels, Roof Slabs, and Sills, and Other Precast Units, Such as Pipe.
Claims use since July 1, 1949.

584,237. (Class 51. Cosmetics and Toilet Preparations.) Elizabeth Arden Sales Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 30, 1952; amended to application, Supplemental Register, Sept. 23, 1953, Serial No. 624,257.

Basic Sheen

For Fountain Creams.
Claims use since Oct. 25, 1951.

584,238. (Class 46. Foods and Ingredients of Foods.) Sweet Frost Packing Company, Little Rock, Ark. Original filed, act of 1946, Principal Register, Apr. 11, 1952; amended to application, Supplemental Register, Aug. 21, 1953, Serial No. 627,985.

SWEET-FROST

For Frozen Food—Namely, Black Eyed Peas.
Claims use since Oct. 10, 1951.

584,239. (Class 6. Chemicals and Chemical Compositions.) Henry Chase, Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 15, 1952; amended to application, Supplemental Register, Oct. 12, 1953, Serial No. 628,089.



For Non-Skid Coating To Be Applied to the Under-Surface of Rugs.
Claims use since Oct. 7, 1949.

584,240. (Class 21. Electrical Apparatus, Machines, and Supplies.) Air-Rite, Inc., Milwaukee, Wis. Original filed, act of 1946, Principal Register, May 12, 1952; amended to application, Supplemental Register, Jan. 22, 1953, Serial No. 629,539.

SHU-FLY

For Electrically Heated Insecticide Vaporizers.
Claims use since Jan. 15, 1950.

584,241. (Class 46. Foods and Ingredients of Foods.) H. Bahlsens Keksfabrik K. G., Hannover, Germany. Original filed, act of 1946, Principal Register, May 20, 1952; amended to application, Supplemental Register, Mar. 25, 1953, Serial No. 629,940.

ABC

PATIENCE

Priority under Sec. 44(d). German application filed Feb. 28, 1952, Registration No. 639,639, dated June 11, 1953.
For Baking Chocolate, Chocolate Candy, Cooking Chocolate, Candy, Marzipan, Pastries, Crackers, Wafers, Waffles, Cookies, Biscuits.

584,242. (Class 46. Foods and Ingredients of Foods.) Friday Harbor Canning Company, Friday Harbor, Wash. Original filed, act of 1946, Principal Register, July 1, 1952; amended to application, Supplemental Register, June 8, 1953, Serial No. 632,026.

SALMON BANKS

For Salmon Packed in Glass.
Claims use since May 20, 1952.

584,243. (Class 18. Medicines and Pharmaceutical Preparations.) Ames Company, Inc., Elkhart, Ind. Original filed, act of 1946, Principal Register, July 2, 1952; amended to application, Supplemental Register, July 2, 1953, Serial No. 632,067.

REDCELTEST

For Diagnostic Reagent Preparation for the Determination of Blood in Fluids.
Claims use since June 4, 1952.

584,244. (Class 6. Chemicals and Chemical Compositions.) Polk Miller Products Corporation, Richmond, Va. Original filed, act of 1946, Principal Register, July 29, 1952; amended to application, Supplemental Register, Oct. 16, 1953, Serial No. 633,214.



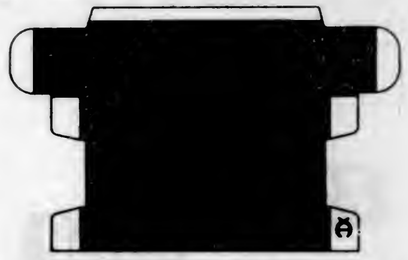
The drawing is lined to indicate the colors red and yellow. Applicant claims ownership of Registration No. 362,260.
For Tick Powder and Flea Powder for Use on Dogs.
Claims use since June 11, 1952.

584,245. (Class 21. Electrical Apparatus, Machines, and Supplies.) Waring Products Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 28, 1952; amended to application, Supplemental Register, Apr. 7, 1953, Serial No. 634,617.

MIXOR

For Electric Hand Mixers.
Claims use since Jan. 17, 1952.

584,246. (Class 51. Cosmetics and Toilet Preparations.) Whitehall Pharmacal Company, New York, N. Y. Filed Aug. 7, 1953, Serial No. 651,879.



The drawing is lined to indicate green, yellow, and red. Applicant claims ownership of Registration No. 338,620.
For Tooth Paste.
Claims use since Feb. 25, 1942; and since Feb. 13, 1928, in substantially its present form.

584,247. (Class 21. Electrical Apparatus, Machines, and Supplies.) Photocircuits Corporation, Glen Cove, N. Y. Original filed, act of 1946, Principal Register, Feb. 3, 1953; amended to application, Supplemental Register, May 5, 1953, Serial No. 641,689.

PHOTOCIRCUITS

For Electric Circuit Components Comprising Metallic Conductors Supported on an Insulating Base and Used as Inductances, Capacitors, Resistors, Conductors, and Switches.
Claims use since Mar. 7, 1951.

584,248. (Class 16. Protective and Decorative Coatings.) Schultz Products Company, Inc., St. Louis, Mo. Original filed, act of 1946, Principal Register, Apr. 15, 1953; amended to application, Supplemental Register, Oct. 5, 1953, Serial No. 645,341.

SCHULTZ-INSTANT
PLANT SHINE

For Liquid Coating Preparation of the Emulsion Type To Be Applied to Plant Foliage To Enhance Its Luster.
Claims use since on or about June 30, 1952.

TRADE-MARK REGISTRATIONS RENEWED

41,656. "KOOL KALF" AND DESIGN. Registered Dec. 15, 1903. Creese and Cook Company, Danvers, Mass., a corporation of Massachusetts. Re-renewed Dec. 15, 1953. Leather. Class 1.

91,864. "FLEXITALLIC." Registered June 3, 1913. "Flexitallic" Gasket Company, Camden, N. J., and Philadelphia, Pa. Re-renewed June 3, 1953, to Flexitallic Gasket Company, Camden, N. J., a corporation of New Jersey. Gaskets and Packings for Pipe-Joints and the Like, Composed of Sheet Metal and Compressible Material, Such as Asbestos. Class 35.

93,205. ROCKFORD. Registered Aug. 26, 1913. The Rockford Watch Co. Ltd., Rockford, Ill. Re-renewed Aug. 26, 1953, to Illinois Watch Case Co., Elgin, Ill., a corporation of Illinois. Watch-Movements. Class 27.

93,650. OVALTINE. Registered Oct. 7, 1913. Dr. A. Wander A-G., Berne, Switzerland. Re-renewed Oct. 7, 1953, to The Wander Company, Chicago, Ill., a corporation of Delaware. A Food Drink. Class 46.

93,904. MASTERSTROKE. Registered Oct. 21, 1913. Pillsbury Flour Mills Company. Re-renewed Oct. 21, 1953, to Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Wheat Flour. Class 46.

93,960. BIRD'S. Registered Oct. 28, 1913. Alfred Bird and Sons, Limited. Re-renewed Oct. 28, 1953, to Alfred Bird & Sons, Limited, Birmingham, England, a corporation organized under the laws of Great Britain. Custard Powder, Egg Powder, and Blanc-Mange Powder. Class 46.

93,992. BAHCO. Registered Oct. 28, 1913. Aktiebolaget B. A. Hjorth & Co., Stockholm, Sweden, a corporation organized under the laws of Sweden. Re-renewed Oct. 28, 1953. Machine Shafts, Machine Axles, Apparatus for Grinding Knives and Scissors, Etc. Class 23.

94,697. "REM-UMC" ETC. WITHIN CIRCLE DESIGN. Registered Dec. 23, 1913. The Union Metallic Cartridge Company, Bridgeport, Conn., and New York, N. Y. Re-renewed Dec. 23, 1953, to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware. Paper Shot-Shells. Class 9.

94,806. ECONOMY. Registered Jan. 6, 1914. Eagle Pencil Company. Re-renewed Jan. 6, 1954, to Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Lead-Pencils and Pencil-Holders. Class 37.

95,214. SERENADE. Registered Feb. 3, 1914. J. A. Folger & Company, San Francisco, Calif., a corporation of California. Re-renewed Feb. 3, 1954. Coffee. Class 46.

301,487. CAVOSEPT. Registered Mar. 7, 1933. Cavendish Chemical Corporation, New York, N. Y. Renewed Mar. 7, 1953, to Cavendish Pharmaceutical Corporation, Newark, N. J., a corporation of New York. Antiseptic Preparations. Class 18.

304,233. "ASBACH" ETC. AND DESIGN. Registered June 27, 1933. Asbach & Co. Aktiengesellschaft. Renewed June 27, 1953, to Asbach & Co. (a Kommanditgesellschaft), Ruedesheim-on-the-Rhine, Germany, a firm of Germany. Cocoa, Sweetened and Unsweetened Chocolate in Powdered, Lump, or Bar Form, Etc. Class 46.

304,235. "DEUTSCHER WEINBRAND" ETC. AND DESIGN. Registered June 27, 1933. Asbach & Co. Aktiengesellschaft. Renewed June 27, 1953, to Asbach & Co. (a Kommanditgesellschaft), Ruedesheim-on-the-Rhine, Germany, a firm of Germany. Wines. Class 47.

304,279. EDELEANU. Registered June 27, 1933. Edeleanu Gesellschaft m. b. H., Berlin, Germany. Renewed June 27, 1953, to Edeleanu Gesellschaft m. b. H., Frankfurt, Germany, a corporation organized under the laws of the Federal Republic of Germany. Gasoline, Illuminating Oil, Diesel Oil, Etc. Class 15.

304,387. ADVANCE GUARD. Registered July 4, 1933. Wilson Brothers, Chicago, Ill., a corporation of Illinois. Renewed July 4, 1953. Dress and Negligee Shirts, Pajamas, Etc. Class 39.

304,396. EDEN ROCK. Registered July 4, 1933. Wilson Brothers, Chicago, Ill., a corporation of Illinois. Renewed July 4, 1953. Men's Dress Shirts. Class 39.

304,472. BERGHOFF. Registered July 11, 1933. Berghoff Brewing Corporation, Fort Wayne, Ind., a corporation of Indiana. Renewed July 11, 1953. Malt Beverage With Not More Than the Legal Alcohol Content. Class 48.

305,688. HOO DYE. Registered Aug. 22, 1933. Houde Engineering Corporation, Buffalo, N. Y. Renewed Aug. 22, 1953, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan. Shock Absorber Fluid Having a Glycerine Base. Class 6.

305,689. HOUDAILLE. Registered Aug. 22, 1933. Houde Engineering Corporation, Buffalo, N. Y. Renewed Aug. 22, 1953, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan. Shock Absorber Fluid Having a Glycerine Base. Class 6.

306,352. DECKER'S MELOSWEET. Registered Sept. 19, 1933. Jacob E. Decker & Sons, Mason City, Iowa. Renewed Sept. 19, 1953, to Armour and Company, Chicago, Ill., a corporation of Illinois. Hams, Bacon. Class 46.

306,424. PARI MUTUEL. Registered Sept. 19, 1933. Joseph B. Leighton, New York, N. Y. Renewed Sept. 19, 1953, to Joseph B. Leighton, Miami, Fla. Table Board Game Played With Playing Pieces and Cards. Class 22.

306,514. HOO DYE. Registered Sept. 19, 1933. Houde Engineering Corporation, Buffalo, N. Y. Renewed Sept. 19, 1953, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan. Shock Absorber Fluid With a Petroleum Base. Class 15.

306,515. HOUDAILLE. Registered Sept. 19, 1933. Houde Engineering Corporation, Buffalo, N. Y. Renewed Sept. 19, 1953, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan. Shock Absorber Fluid With a Petroleum Base. Class 15.

306,576. SANCTOLITE. Registered Sept. 26, 1933. Will & Baumer Candle Co., Inc., Syracuse, N. Y., a corporation of New York. Renewed Sept. 26, 1953. Altar and Church Lamps. Class 34.

306,600. LITE-VELVA. Registered Sept. 26, 1933. Pillsbury Flour Mills Company. Renewed Sept. 26, 1953, to Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Wheat Flour. Class 46.

306,643. BAREX. Registered Sept. 26, 1933. King Laboratories, Inc., Syracuse, N. Y., a corporation of New York. Renewed Sept. 26, 1953. Getters Used in the Evacuation of Vacuum Tubes. Class 6.

306,678. CATHEDRAL. Registered Sept. 26, 1933. Brown & Wells, Inc., Boston, Mass. Renewed Sept. 26, 1953, to Raymond Wells, New Boston, N. H. Four-in-Hand Neckties for Men. Class 39.

306,698. "DISMUKE'S FAMOUS" AND DESIGN LINED FOR RED. Registered Sept. 26, 1933. Famous Mineral Water Co., Mineral Wells, Tex., a corporation of Texas. Renewed Sept. 26, 1953. Mineral Crystals, and Evaporated Mineral Water Residue, for the Treatment of Constipation, Etc. Class 18.

306,773. BILTRITE. Registered Sept. 26, 1933. Biltrite Motor Equipment Co. Inc., New York, N. Y., a corporation of New York. Renewed Sept. 26, 1953. Motor Vehicle Brake-Renewer Compounds, Fabric Dry Cleaner Compounds, Etc. Class 4.

306,985. "PURE MILK ASS'N" AND DESIGN. Registered Oct. 10, 1933. Pure Milk Association, Chicago, Ill., a corporation of Illinois. Renewed Oct. 10, 1953. Milk. Class 46.

306,994. SHUR-RANE. Registered Oct. 10, 1933. Ellsworth D. Gage, doing business as Rain Machine Sales Co., Oakland, Calif. Renewed Oct. 10, 1953, to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware. Portable Overhead Irrigating Systems, Including Water Distributing and Sprinkling Apparatus. Class 13.

307,089. SCHIAPARELLI. Registered Oct. 17, 1933. Societe Anonyme Schiaparelli. Renewed Oct. 17, 1953, to Elsa Schiaparelli, Paris, France. Women's Wearing Apparel and Accessories—Namely, Dresses, Gowns, Dressing Gowns, Etc. Class 39.

307,175. QUALCAST. Registered Oct. 17, 1933. Qualcast Limited, Derby, England, a company organized under the laws of Great Britain. Renewed Oct. 17, 1953. Lawn Mowers and Parts Thereof. Class 23.

307,243. THE TEMPLE DAILY TELEGRAM. Registered Oct. 17, 1933. Bell Publishing Company, Temple, Tex., a corporation of Texas. Renewed Oct. 17, 1953. Daily Newspaper. Class 38.

307,647. CODO SUPER-KOTE. Registered Oct. 31, 1933. Codo Manufacturing Corporation, Coraopolis, Pa. Renewed Oct. 31, 1953, to Codo Manufacturing Corporation, Coraopolis, Pa., and Chicago, Ill., a corporation of Delaware. Carbon Papers. Class 11.

307,749. KEEN-RITE. Registered Oct. 31, 1933. Codo Manufacturing Corporation, Coraopolis, Pa. Renewed Oct. 31, 1953, to Codo Manufacturing Corporation, Coraopolis, Pa., and Chicago, Ill., a corporation of Delaware. Typewriter Ribbons and Carbon Papers. Class 11.

307,903. TOM COLLINS JR. Registered Nov. 7, 1933. The Tom Collins Jr. Co. Renewed Nov. 7, 1953 (Supplemental Register), to Grandpa Brands Company, Cincinnati, Ohio, a corporation of Ohio. Nonalcoholic, Maltless Beverages Sold as Soft Drinks. Class 45.

307,917. CODO SUPER-FIBER. Registered Nov. 14, 1933. Codo Manufacturing Corporation, Coraopolis, Pa. Renewed Nov. 14, 1953, to Codo Manufacturing Corporation, Coraopolis, Pa., and Chicago, Ill., a corporation of Delaware. Typewriter Ribbons. Class 11.

308,642. "FOUNDATION WORSTED MILLS" AND DESIGN. Registered Dec. 12, 1933. Washougal Woolen Mills, doing business as Foundation Worsted Mills, Washougal, Wash., a corporation of Washington. Renewed Dec. 12, 1953. Blankets of Wool, Cotton, and Combinations Thereof. Class 42.

309,126. "CALLAWAY MILLS" AND DESIGN. Registered Jan. 2, 1934. Callaway Mills. Renewed Jan. 2, 1954, to Callaway Mills Company, La Grange, Ga., a corporation of Georgia. Awning Cord, Binder Twine, Braided Lacing Cord, Clothes Lines, Florist Twine, Etc. Class 7.

309,151. CODO. Registered Jan. 2, 1934. Codo Manufacturing Corporation, Coraopolis, Pa. Renewed Jan. 2, 1954, to Codo Manufacturing Corporation, Coraopolis, Pa., and Chicago, Ill., a corporation of Delaware. Typewriter Ribbons and Carbon Papers. Class 11.

309,300. "STUDIO" AND DESIGN (PARALLEL LINES). Registered Jan. 9, 1934. The Studio Publications, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 9, 1954. Magazines Issued Monthly and Also for Books Relating to Art Subjects and Reproductions of Paintings, Drawings, and Engravings. Class 38.

309,335. "CALLAWAY MILLS" AND DESIGN. Registered Jan. 9, 1934. Callaway Mills. Renewed Jan. 9, 1954, to Callaway Mills Company, La Grange, Ga., a corporation of Georgia. Ironing Board Sets, Nets for Laundry and Dye House Use, Tailored Ironing Board Pads, Etc. Class 24.

309,336. "CALLAWAY MILLS" AND DESIGN. Registered Jan. 9, 1934. Callaway Mills. Renewed Jan. 9, 1954, to Callaway Mills Company, La Grange, Ga., a corporation of Georgia. Carpet Yarn, Chenille Yarn, Cop Yarn, Etc. Class 43.

309,364. "EARTHEN PRODUCTS CO." ETC., AND DESIGN. Registered Jan. 9, 1934. Earthen Products Company, Houston, Tex., a corporation of Texas. Renewed Jan. 9, 1954. Ground Amorphous Raw Clay and Amorphous Fuller's Earth of the Grades Used for Refining Oils, Etc. Class 1.

309,520. "SANTA DAMIANA" AND DESIGN. Registered Jan. 16, 1934. H. de Cabanas y Carbajal, Jersey City, N. J. Renewed Jan. 16, 1954, to Cuban Tobacco Company Inc., New York, N. Y., a corporation of Delaware. Cigars. Class 17.

309,614. ACE. Registered Jan. 23, 1934. Simmons Company, New York, N. Y., a corporation of Delaware. Renewed Jan. 23, 1954. Mattresses. Class 32.

310,023. "COLGATE" ETC. AND REPRESENTATION OF CARTON LINED FOR RED. Registered Feb. 6, 1934. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed Feb. 6, 1954, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Dental Cream. Class 51.

310,121. "LLOYD" AND DESIGN. Registered Feb. 13, 1934. Windsor-Lloyd Products, Inc., Wilmington, Del. Renewed Feb. 13, 1954, to Windsor-Lloyd Products, Inc., Philadelphia, Pa., a corporation of Delaware. Ignition Coils, Replacement Ignition Coils, Ignition Cable Kits, Automobile Ignition Timers, Etc. Class 21.

310,136. "BOOSTER" AND DESIGN. Registered Feb. 13, 1934. Windsor-Lloyd Products, Inc., doing business as Booster Chemical & Engineering Co., Baltimore, Md. Renewed Feb. 13, 1954, to Windsor-Lloyd Products, Inc., Philadelphia, Pa., a corporation of Delaware. Motor Lubricating Oils and Lubricating Greases. Class 15.

310,157. LANALBINE. Registered Feb. 13, 1934. Nyanza Color & Chemical Co., Inc., New York, N. Y., a corporation of New York. Renewed Feb. 13, 1954. Liquid Chemical Product Used as a Protective Agent in the Treatment and Finishing of Textiles, Leather, and Furs. Class 6.

310,199. "THE PEP BOYS" ETC. AND DESIGN. Registered Feb. 13, 1934. The Pep Boys—Manny, Moe & Jack, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Feb. 13, 1954. High Pressure Lubricants, Motor Lubricating Oils, Transmission and Differential Lubricants. Class 15.

310,270. "CALLAWAY MILLS" AND DESIGN. Registered Feb. 13, 1934. Callaway Mills. Renewed Feb. 13, 1954, to Callaway Mills Company, La Grange, Ga., a corporation of Georgia. Made Up Seat Covers, Stool Covers, Toilet Seat Covers, Etc. Class 32.

310,447. AQUAFUGE. Registered Feb. 27, 1934. Peter J. Schweitzer, Inc., Elizabeth, N. J. Renewed Feb. 27, 1954, to Peter J. Schweitzer, Inc., New York, N. Y., a corporation of New York. Cigarette Paper. Class 8.

310,716. RUBBER GLOSS. Registered Mar. 6, 1934. Franklin Research Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Mar. 6, 1954. Water and Wax Emulsions, Known in the Trade as Liquid Waxes, Etc. Class 4.

310,790. ST. GEORGE. Registered Mar. 6, 1934. George Hugo Malter. Renewed Mar. 6, 1954, to St. George Winery, Fresno, Calif., a corporation of California. Wines. Class 47.

310,927. TRUBENIZED. Registered Mar. 13, 1934. S. Liebovitz & Sons, Inc. Renewed Mar. 13, 1954, to Trubenizing Process Corporation, New York, N. Y., a corporation of New York. Dress and Negligee Shirts and Collars. Class 39.

311,091. VARIAC. Registered Mar. 13, 1934. General Radio Company, Cambridge, Mass., a corporation of Massachusetts. Renewed Mar. 13, 1954. Transformers. Class 21.

311,100. PNEU-TILE. Registered Mar. 13, 1934. The Republic Rubber Company. Renewed Mar. 13, 1954, to Lee Rubber and Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio, a corporation of New York. Floor and Table Coverings of Rubber Composition Sold in the Piece. Class 50.

311,101. PNEU-PAD. Registered Mar. 13, 1934. The Republic Rubber Company. Renewed Mar. 13, 1954, to Lee Rubber and Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio, a corporation of New York. Rubber Composition Padding of All Kinds Such as Is Used Under Rugs and on Chairs, Etc. Class 50.

311,136. ADJUSTA-NET. Registered Mar. 13, 1934. Patchogue-Plymouth Mills Corporation, New York, N. Y., a corporation of New York. Renewed Mar. 13, 1954. Lace Curtains. Class 42.

311,174. HOLFORD'S. Registered Mar. 13, 1934. William J. Fink, doing business as The Holford Co. Renewed Mar. 13, 1954, to Robert G. Laurie, doing business as The Holford Company, Minneapolis, Minn. Inhalants for Use in Treating Asthma, Hay Fever, Sinus, Catarrh, Colds, and Headaches. Class 18.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

201,211. ECLADOR. Registered July 21, 1925. Joseph Lesquendieu, Paris, France. Nail Polishes. Class 51 (formerly Class 6). Canceled Nov. 30, 1953. Section 7(d).

321,801. PERFECT-REST. Registered Feb. 12, 1935. Barker Bros. Incorporated, Los Angeles, Calif. Mattresses and Bed-Springs. Class 32. Canceled Nov. 30, 1953. Section 7(d).

351,091. THE PAUL BUNYAN. Registered Oct. 19, 1937. Janesville Clothing Company, Janesville, Wis. Men's and Boys' Work Shirts, Etc. Class 35. Canceled Nov. 27, 1953. Canc. No. 5669.

377,859. VAT 82. Registered May 14, 1940. Philip R. Myers, New York, N. Y. Whiskey, Gin, Rum, Etc. Class 49. Canceled Nov. 20, 1953. Canc. No. 6084.

426,493. AMERICAN CARBONATOR & BOTTLER. Registered Dec. 24, 1946. Augustus S. Loyless, doing business as Loyless Publishing Company, Atlanta, Ga. Monthly Trade Journal Etc. Class 38. Canceled Nov. 19, 1953. Section 7(d).

441,254. "UNXLD 448" AND DESIGN. Registered Nov. 9, 1948. Unexcelled Chemical Corporation, New York, N. Y. Insect Repellent Compositions. Class 6. Canceled Nov. 20, 1953. Canc. No. 6115.

501,726. AMERICAN CARBONATOR AND BOTTLER. Registered Aug. 17, 1948. Loyless Publishing Company, Inc., Atlanta, Ga. Monthly Trade Journal Etc. Class 38. Canceled Nov. 19, 1953. Section 7(d).

560,311. KLEEN-WRAP. Registered June 17, 1952. Pollock Paper Corporation, Dallas, Tex., assignor to Quaker Waxed Products Corporation, Philadelphia, Pa. Waxed Paper. Class 37. Canceled Nov. 30, 1953. Section 7(d).

574,448. "DRI-PADS" Registered May 12, 1953. Walter J. Aagesen, Anderson, Ind. Absorbent Surgical Pads. Class 44. Canceled Nov. 20, 1953. Canc. No. 6122.

TRADE-MARK REGISTRATIONS AMENDED. DISCLAIMED, CORRECTED, ETC.

94,891. "MOTHER GOOSE" AND DESIGN. Registered Jan. 13, 1914. The Dunlop Milling Company, Clarksville, Tenn. Self-Rising Wheat-Flour. Class 46. The drawing is hereby amended to appear as follows:



190,771. "PETER PAN" AND DESIGN. Registered Oct. 21, 1924. Petersen & Pegau Baking Co., now by change of name P. F. Petersen Baking Company, Omaha, Nebr. Bread. Class 46. The drawing is hereby amended to appear as follows:

Peter Pan

238,618. "KANSAS STAR" AND DESIGN. Registered Feb. 14, 1928. The Western Star Mill Co., Salina, Kans. Wheat Flour. Class 46. The drawing is hereby amended to appear as follows:



244,000. "SNP" AND DESIGN. Registered July 3, 1928. Synthetic Nitrogen Products Corporation, New York, N. Y. Fertilizer. Class 10. The drawing is hereby amended to appear as follows:



306,793. "BENNETT'S" AND DESIGN. Registered Sept. 26, 1933. Bennett Glass & Paint Company, Salt Lake City, Utah. Self-Polishing Floor Wax and Paste Floor Wax. Class 4. Corrected as follows: On the page containing the statement, at the bottom thereof, strike out "The Ranney-Davis Mercantile Company, Arkansas City, Kans.

388,510. REPRESENTATION OF CROSS IN CIRCLE. Registered July 1, 1941. Katakura Seishi Boseki Kabushiki Kaisha, Tokyo, Japan. Raw Silk. Class 1. Amended as follows: In the certificate, lines 2–3 and 16; in the heading and signature to the statement; and in line 1 of the statement, after "Kaisha," *now by change of name Katakura Kogyo Kabushiki Kaisha,* is inserted.

580,010. ORAGUM. Registered Sept. 15, 1953. Pharmaco, Inc., Kenilworth, N. J. Oral Antiseptic, Deodorant Preparation in Chewing Form. Class 18. The drawing is hereby amended to appear as follows:

ORA-GUM

580,175. BALLERINA. Registered Sept. 22, 1953. Stineway Drug Company, Chicago, Ill. Women's Hosiery. Class 39. Corrected as follows: In the certificate, line 3, second occurrence; and in the statement, line 2, "Illinois" should be *Delaware.*

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

25,802. CUTAWAY. Registered Jan. 1, 1895. Renewed Jan. 1, 1925. Re-renewed Jan. 1, 1945. The Cutaway Harrow Company, Higganum, Conn. Harrows, Plows, Etc. Class 23. New certificate under section 7(c) issued Dec. 29, 1953, to The Cobey Corporation, Galion, Ohio, a corporation of Ohio.

346,198. MATHEY-TISSOT. Registered May 18, 1937. E. Mathey-Tissot et Co., Les Ponts de Martel, Neuchatel, Switzerland. Watches and Clocks and Parts Thereof. Class 27. New certificate under section 7(c) issued Dec. 29, 1953, to E. Mathey-Tissot & Cie., S. A., Ponts-de-Martel, Switzerland, a corporation of Switzerland.

363,341. FRENCH-KETTLE. Registered Dec. 20, 1938. French Kitchen Foods Corporation, Los Angeles, Calif. Onion Soup. Class 46. New certificate under section 7(c) issued Dec. 29, 1953, to L. L. Frank Co., Los Angeles, Calif., a corporation of California.

533,214. WONDER DISKER. Registered Nov. 7, 1950. Orkil, Incorporated, East Hartford and Higganum, Conn. Agricultural Implements—Namely, Harrows and Parts. Class 23. New certificate under section 7(c) issued Dec. 29, 1953, to The Cobey Corporation, Galion, Ohio, a corporation of Ohio.

548,731. HI-DRO-ANGLE. Registered Sept. 25, 1951. Orkil, Incorporated, East Hartford, Conn. Hydraulic Ram Assembly, Etc. Class 23. New certificate under section 7(c) issued Dec. 29, 1953, to The Cobey Corporation, Galion, Ohio, a corporation of Ohio.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 251,727. Registered Jan. 15, 1929. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NYALYPTUS

For Compound for the Treatment of Coughs.
Claims use since June 24, 1927.

Reg. No. 370,620. Registered Aug. 29, 1939. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NYMATIC

For Preparation Used in the Treatment of Rheumatic Fever.
Claims use since Apr. 14, 1939.

Reg. No. 370,638. Registered Aug. 29, 1939. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NYALOIDS

For Lozenge for Soothing and Cooling the Throat.
Claims use since Apr. 18, 1939.

Reg. No. 370,641. Registered Aug. 29, 1939. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

EARITE

For Ear Ache Drops for the Relief of Pain Caused by Hardened Wax.
Claims use since May 8, 1939.

Reg. No. 374,928. Registered Jan. 30, 1940. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

EYEMASTER

For Eye Drops.
Claims use since Aug. 14, 1939.

Reg. No. 384,411. Registered Jan. 21, 1941. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NY-AQUA

The word "Aqua" is disclaimed apart from the mark as shown.
For Medicinal Preparation for Nasal Congestion Associated With or Due to Common Colds, Sinusitis, Rhinitis, and Hay Fever.
Claims use since about Aug. 2, 1938.

Reg. No. 384,895. Registered Feb. 4, 1941. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

Vita-Vim

For General Tonic and for Use in the Treatment of Certain Types of Vitamin Deficiencies.
Claims use since Feb. 1, 1921.

Reg. No. 385,249. Registered Feb. 18, 1941. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

VITALOIDS

For Medicinal Preparation Used in the Treatment of Certain Vitamin Deficiencies.
Claims use since Oct. 18, 1940.

Reg. No. 385,250. Registered Feb. 18, 1941. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

VITAMASTER

For Medicinal Preparation Used in the Treatment of Certain Vitamin Deficiencies.
Claims use since Oct. 18, 1940.

Reg. No. 393,697. Registered Feb. 24, 1942. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

CONTRALAX

For Intestinal Astringent Used To Allay Loose Bowel Movements Due to Minor Intestinal Disturbances.
Claims use since Oct. 22, 1941.

Reg. No. 400,124. Registered Feb. 16, 1943. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NYSEPTOL

For Antiseptic Mouth Wash.
Claims use since Mar. 10, 1931.

Reg. No. 400,126. Registered Feb. 16, 1943. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NYDERMA

For Preparation for the Treatment of Irritations of the Skin.
Claims use since May 7, 1935.

Reg. No. 400,127. Registered Feb. 16, 1943. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

Lullit

For Preparation for the Relief of Pain.
Claims use since Sept. 5, 1934.

Reg. No. 402,129. Registered June 29, 1943. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

LUMAX

For Antacid for Relief of Excessive Gastric Acidity.
Claims use since Feb. 11, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 306,961. Registered Oct. 10, 1933. The Black & Decker Manufacturing Company, Towson, Md., a corporation of Maryland. Republished by registrant.

"VIBRO-CENTRIC"

For Electric Portable Valve Seat Grinders and Parts Thereof.
Claims use since May 10, 1933.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 39,586. Registered Dec. 30, 1902. Illinois Watch Case Co., Elgin, Ill. Republished by Illinois Watch Case Co. (1941), Elgin, Ill., a corporation of Illinois.

ELGIN PRIDE

For Watchcases.
Claims use since January 1897.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 375,318. Registered Feb. 13, 1940. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NOREG

For Hot Water Bottles, Fountain Syringes, and Combination Fountain Syringes and Hot Water Bottles.
Claims use since Sept. 12, 1939.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 293,715. Registered May 3, 1932. New England Fish Company, Seattle, Wash., a corporation of Maine. Republished by registrant.



The words "Columbia River" are disclaimed apart from the mark as shown.
For Canned Salmon.
Claims use since Jan. 1, 1887.

Reg. No. 311,888. Registered Apr. 10, 1934. M & R Dietetic Laboratories, Inc., Columbus, Ohio, a corporation of Ohio. Republished by registrant.

SOFKURD

For Modified Milk in Powdered Form—Namely, Whole Sweet Milk With Added Acid and Slightly Reduced Calcium and Phosphorous.
Claims use since Oct. 15, 1932.

Reg. No. 371,247. Registered Sept. 19, 1939. M & R Dietetic Laboratories, Inc., Columbus, Ohio, a corporation of Ohio. Republished by registrant.

TEN - B - LOW

For Condensed Milk Preparation for Use in Making Ice Cream and Frozen Desserts.
Claims use since Apr. 19, 1939.

Reg. No. 394,296. Registered Mar. 31, 1942. M & R Dietetic Laboratories, Inc., Columbus, Ohio, a corporation of Ohio. Republished by registrant.

Ten-B-Low

For Condensed Milk Preparation for Use in Making Ice Cream and Frozen Desserts.
Claims use since Mar. 12, 1941.

Reg. No. 432,084. Registered Aug. 19, 1947. M & R Dietetic Laboratories, Inc., Columbus, Ohio, a corporation of Ohio. Republished by registrant.

CŌLAC

For Condensed Milk Product Comprising a Blend of Cream, Milk Solids, Sugar, and Stabilizers for Use in Ice Cream Manufacture.
Claims use since Oct. 1, 1937.

Reg. No. 439,546. Registered July 6, 1948. M & R Dietetic Laboratories, Inc., Columbus, Ohio, a corporation of Ohio. Republished by registrant.

M & R

For Ice Cream Mix Comprising a Condensed Milk Product Composed of a Blend of Cream, Milk Solids, Sugar, and Stabilizers.
Claims use since Dec. 7, 1926.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 266,332. Registered Jan. 14, 1930. La Salle Products, Inc., St. Paul, Minn. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

PAR

For Eau de Quinine, Hair Tonic, Shampoo, Lilac Vegetal, Hair Oil, Bay Rum, a Liquid Hairdressing Containing Oil, Cold Cream, Face Powder, Perfume, and Toilet Water.
Claims use since July 20, 1929.

Reg. No. 400,121. Registered Feb. 16, 1943. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NYKALINE

For Mouth Wash.
Claims use since Mar. 10, 1931.

Reg. No. 400,123. Registered Feb. 16, 1943. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

NYGLO

For Hair Dressing.
Claims use since Feb. 13, 1931.

Reg. No. 407,398. Registered June 6, 1944. Nyal Company, Detroit, Mich. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.

Eas'em

For Foot Powder.
Claims use since Feb. 13, 1928.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 266,332. Registered Jan. 14, 1930. (Classified in Class 51.) La Salle Products, Inc., St. Paul, Minn. Republished by Nyal Company, Inc., New York, N. Y., a corporation of New York.
See this number in Class 51 for goods and mark.
Claims use since July 20, 1929.

Reg. No. 300,473. Registered Jan. 24, 1933. National Milling and Chemical Company, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

TRI SOAP

The word "Soap" is disclaimed apart from the mark as shown.
For Soap Compound.
Claims use since Aug. 1, 1932.

REISSUES

DECEMBER 29, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

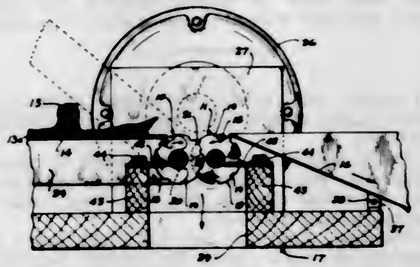
23,758

POULTRY GIZZARD SKINNER

Merritt I. Darrow, Chicago, Guy R. Biddinger, Bellwood, and William J. Patterson, La Grange, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois

Original No. 2,620,510, dated December 9, 1952, Serial No. 132,638, December 12, 1949. Application for reissue June 17, 1953, Serial No. 362,431

15 Claims. (Cl. 17—11)



1. A device for removing the lining from poultry gizzards, said device including a frame, a pair of rollers each having a plurality of spaced annular ridges thereabout, said ridges having two sides and a gizzard supporting surface on the periphery between the two sides, said rollers being journaled in said frame with the ridges of one roller interdigitating with the ridges of the other roller with the sides of the ridges of one roller immediately adjacent the sides of the ridges of the other roller with an interstice therebetween, and power means connected to said rollers to rotate said rollers in opposite directions of rotation.

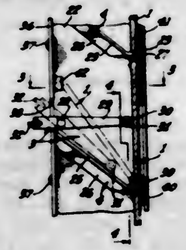
23,759

LOUVERED WINDOW

Joseph R. Klein, Los Angeles, Calif.

Original No. 2,559,442, dated July 3, 1951, Serial No. 717,889, December 23, 1946. Application for reissue July 2, 1952, Serial No. 296,973

9 Claims. (Cl. 20—53)



4. A window structure including two laterally spaced vertical end members to be secured in fixed operating relationship relative to each other, a plurality of brackets supported as horizontally aligned pairs on the facing surfaces of said end members, each of said brackets having a horizontally disposed supporting portion, a plurality of substantially rectangular panels extending between said end members with the lower edge of each of said panels near the ends of each of said panels resting freely on said supporting portions of a pair of said brackets, resilient vertical strips having rigid backing means mounted on said end members outside and adjacent said supporting portions for engagement by marginal end portions of the panels on the outer surfaces of the panels, elongated resilient elements substantially U-shaped in cross section horizontally disposed between said vertical strips and each having a marginal lower edge portion of one of said panels received therein, a plurality of independent lever means pivotally mounted on the facing surfaces of said end members and extending from inside toward the outside, the pivot of each lever means being substantially in a horizontal plane passing through the horizontal median portion of each panel, and the length of the lever means from the pivot to the inside surface of the panel being such that when the lever is substantially in a horizontal position the panel is urged against said resilient vertical strips, a depending flange on the outsde edge of each of said horizontally disposed resilient elements for engagement by an upper marginal edge portion of the next lower panel when said next lower panel is urged against said vertical strips, and means mounted on each of said end members rearwardly of said strips a distance less than the height of said panels and projecting towards the other end member to restrain inward removal of the panels from the brackets.

23,760

METHOD AND APPARATUS FOR COLD MILLING SOAP AND OTHER MATERIALS

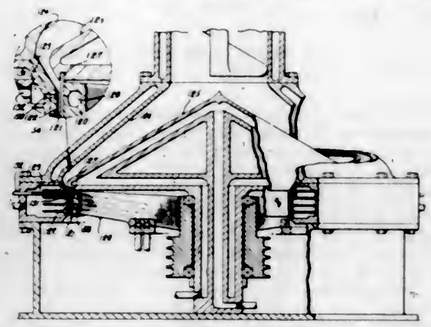
Donald E. Marshall and John A. Harrington, Minneapolis, and Robert L. Crane, Glen Lake, Minn., assignors to Micro Processing Equipment Inc., Des Plaines, Ill., a corporation of Illinois

Original No. 2,620,511, dated December 9, 1952, Serial No. 174,084, July 15, 1950. Application for reissue October 22, 1953, Serial No. 387,825

40 Claims. (Cl. 18—1)

37. Milling apparatus for milling deformable solid material such as soap in the solidified state, comprising: a pair of complementary walls cooperating with one another to define a duct capable of withstanding the high pressure needed to move such material and having an inlet of relatively small perimeter and an annular slit-like outlet of considerably greater perimeter whereby material moving through the duct from the inlet to its outlet is transformed from a solid stream of small perimeter into an annular stream of much greater perimeter but small wall thickness: cooperating annular milling members one within the other, said milling members having complementary annular milling surfaces in close proximity to one another to define therebetween an annular milling zone having a narrow an-

nular inlet and an annular outlet, said cooperating milling members and the cooperating walls defining said duct being so disposed with respect to one another that the annular outlet of the duct connects directly with the annular inlet of the milling zone; means for force feeding the material



to be milled into the inlet of said duct and through the duct to the inlet of the milling zone; said cooperating milling members being relatively rotatable one with respect to the other; and means for effecting such relative rotation between the milling members.

23,761

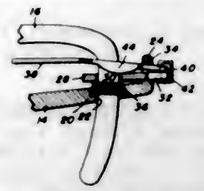
ACTUATING AND LOCKING MEANS FOR THE HANDLES OF PLIER TYPE TOOLS

Walter Sarvie, Alexandria, Minn.

Original No. 2,539,865, dated January 30, 1951, Serial No. 112,080, August 24, 1949. Application for reissue January 23, 1953, Serial No. 333,023

7 Claims. (Cl. 81—49)

1. An actuating and locking mechanism for a pliers type tool having a pair of handles, comprising an end portion on one handle having an aperture, a curved shank on the end of the other handle extending through said aperture, a terminal member on said end portion, a latch plate having a bore receiving said shank and gripping said shank when the latch plate is tilted in one direction, said latch plate having an extension on the side of said terminal remote from said shank, a lever pivoted on said extension for movement in two directions, an intermediate portion of said lever engaging said terminal to move said terminal relative to the



latch plate in a direction toward said other handle when the lever is moved toward said other handle, a spring to bias the latch plate to pivot toward said other handle to grip said shank, said flange engaging said latch plate when said lever is moved toward said other handle and then moved transversely of the shank.

23,762

METHODS AND COMPOSITIONS FOR CONTROLLING STEM END DECAY OF CITRUS FRUITS

Martin A. Slade, Jr., and Raymond D. Gerwe, Lakeland, Fla., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware

No Drawing. Original No. 2,578,752, dated December 18, 1951, Serial No. 59,986, November 13, 1948. Application for reissue December 15, 1952, Serial No. 326,176

6 Claims. (Cl. 99—154)

1. The method of treating fresh whole citrus fruit to control stem end decay which comprises contacting said fruit with an aqueous solution of salicyl anilide solubilized with an organic amine base selected from the group comprising amino methyl propanol, monoethanolamine, diethanolamine, triethanolamine, morpholine, aminobutanol and di-ethylamine.

PLANT PATENTS

GRANTED DECEMBER 29, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,235

ROSE PLANT

Ralph S. Moore, Visalia, Calif.

Application December 8, 1952, Serial No. 324,863

1 Claim. (Cl. 47—61)

A new and distinct variety of climbing hybrid polyantha rose plant, substantially as described and illustrated, characterized—in comparison to the climbing yellow Cécile Brunner rose variety, by blooming more continuously, being substantially thornless, and having more lasting color in the flowers; the buds and flowers being apricot-yellow in primary color, the buds being small and well shaped, and the flowers shading to a creamy yellow after several days open and being substantially the size of the flowers of said Cécile Brunner variety; being further characterized—in comparison to the pollen parent Goldilocks rose variety—by the apricot yellow primary color of the buds and flowers, and the substantial absence of thorns; and additionally characterized by being readily propagated, easy to grow when planted, blooming in the first season in the garden, and, although a climber, being readily contained within a small space, as on a trellis.

1,236

PEACH TREE

John F. Duke, Sr., John F. Duke, Jr., and Leman P. Duke, Fort Valley, Ga.

Application September 17, 1951, Serial No. 246,924

1 Claim. (Cl. 47—62)

The new variety of peach tree as herein disclosed characterized by the fact that it requires less chilling hours for production of buds and blossoms than other so-called early varieties and by ripening earlier than any known freestone type peach; by producing a freestone fruit of unusually large size, having a tendency to a round shape and having uniform ribs on both sides of the seam; the fruit having a skin of intense red, covered with less fuzz than the so-called early varieties and when brushed having the appearance of the plum or apple type of fruit; the fruit meat being of fine texture and generally white blended with pink and red; and the seed of the fruit being of small type in comparison to the size of the fruit.

1,237

ROSE PLANT

Frank Spanbauer, Decatur, Ill.

Application December 29, 1952, Serial No. 328,541

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized particularly as to novelty by its upright and bushy habit of growth, by its relatively leathery foliage, by its relatively large and long-pointed buds, by its full-petaled flowers of Neyron Pink general color tonality, by the uniformity of the color of its blooms and their good-keeping and long-lasting quality with complete absence of bluing of the petals, by its habit of bearing flowers on relatively strong, long and large stems, by its freedom from "bullheading" of the flowers, and by its freedom and profusion of blooms, with attending superior production for cut-flower purposes.

PATENTS

GRANTED DECEMBER 29, 1953

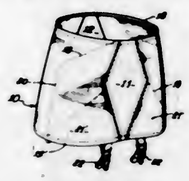
GENERAL AND MECHANICAL

2,663,870
COMBINATION CAP AND EYESHIELD
Samuel Feldman, Brooklyn, N. Y., assignor to Felport Incorporated, New York, N. Y., a corporation of New York
Application July 28, 1948, Serial No. 41,053
4 Claims. (Cl. 2—10)



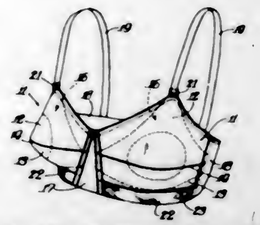
1. In combination, a visor member adapted to be positioned above the eyes of the wearer, a glareproof eyeshield member adapted to be positioned before the eyes of the wearer, and means for movably interconnecting said members at spaced points, each interconnecting means comprising a track member mounted on said visor member and a pair of universally interengaging members, one of said interengaging members including a portion slidably and rotatably mounted on said track member and the other of said interengaging members being secured to said eyeshield member.

2,663,871
FOUNDATION GARMENT
Olga Erteszek, Los Angeles, Calif.
Application October 12, 1951, Serial No. 251,037
7 Claims. (Cl. 2—28)



1. A continuously circular essentially one-piece foundation garment comprising a single ply horizontally relatively inelastic and vertically elastic abdomen supporting front panel extending from the top to the central bottom of the garment, a single ply of elastic horizontally and vertically stretchable material forming the body of the garment and extending from the sides of said front panel, reinforcing plies of horizontally and vertically elastic material secured to the body ply along upper seam lines extending downwardly and outwardly from the sides of the front panel and from locations near the top of the garment, and along lower seam lines extending downwardly and outwardly from below the vertical midpoints of said panel sides to near the bottom of the garment, said body ply extending continuously along substantially the entire vertical extent of said front panel at opposite sides thereof, and extending continuously between and vertically beyond said upper and lower seam lines.

2,663,872
BRASSIÈRE
George L. Diebold, Chicago, Ill., assignor to Venus Foundation Garments, Inc., Chicago, Ill., a corporation of Delaware
Application December 1, 1950, Serial No. 198,647
3 Claims. (Cl. 2—42)

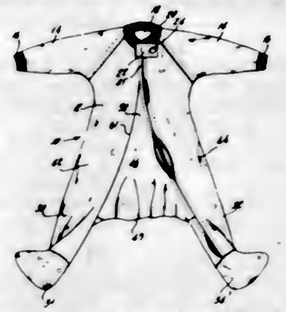


1. In a brassière having a pair of breast pockets, means for independently supporting the breasts and conforming to a substantial extent to the size and shape thereof, said means comprising a pair of self-adjusting annular breast-engaging members disposed at the inside of the breast pockets and adapted to extend circumferentially completely around the breasts of the wearer in breast-conforming relation, said members each being securely fastened to its corresponding breast pocket at three spaced points adjacent the top and opposite side edges thereof whereby the remaining unattached portions of said members are free to move and conform to the size and shape of the wearer's breasts and whereby said members are retained in open breast-supporting position during use without collapse and sagging thereof and said members having substantial resistance to stretching in a generally horizontal direction at the bottom portions thereof whereby to provide a firm support below the breasts and being readily stretchable in a generally vertical direction at the side portions thereof to conform to a substantial extent to the size and shape of the breasts.

2,663,873
INFANT'S SLEEPING GARMENT
Murray M. Stern, Garden City, N. Y., assignor to Famous Bathrobe Co., Inc., New York, N. Y., a corporation of New York
Application July 13, 1951, Serial No. 236,493
2 Claims. (Cl. 2—83)

1. A legged garment of the character described, comprising a short back panel, a pair of elongated side panels extending substantially the full length of the garment at the front thereof and from below the back panel at the rear thereof, the lower edge portions of each of which side panels are secured together to form the leg components of the garment, and a crotch panel, the back panel extending from the top of the garment to the waist at the rear of the garment with the side edges of the back panel being secured to the upper rear edges of the side panels, the crotch panel extending from the waist at

the rear of the garment downwardly, across to the front of the garment, and upwardly, terminating in an elongated triangular member extending substantially up to the neck of the garment at the front thereof, one side of the triangular portion being sewed to the upper front



edge of one of the side panels at the front of the garment and above the lower leg on that side of the garment, and a separable fastener connection between the other side of the triangular portion and the other side panel, angled across the front of the body of said garment.

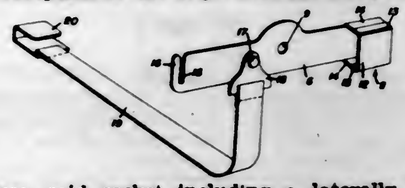
2,663,874
PLASTIC HELMET
George Albert Lyon, Detroit, Mich.
Application October 26, 1951, Serial No. 253,278
3 Claims. (Cl. 2—173.5)



1. As an article of manufacture, a head gear including a crown and a brim radiating from a curving juncture with the crown, said crown and brim being formed in one piece from synthetic plastic material, the crown having peripherally spaced inset areas for contact with a wearer's head, and having spaced ribs offset outwardly from the inset areas of said crown and radiating toward the brim and extending curvilinearly at their lower end portions across said juncture and merging with the underside of the brim, said ribs being of greater peripheral extent than the inset areas of said crown therebetween and being hollow to provide broad air ducts between adjacent inset areas, said ribs having broad generally arcuate outer surfaces defining a generally oval contour for the head gear, and an adjustable band extending transversely through said ribs and depressions around said crown above said brim and adjustable to vary the size and shape of the crown to conform the same to the head of the wearer.

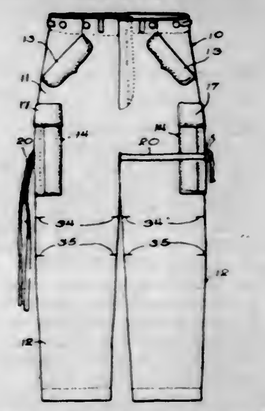
2,663,875
CAP HANGER
Eino W. Hintsala, New York Mills, Minn.
Application November 23, 1951, Serial No. 257,859
3 Claims. (Cl. 2—188)

1. A cap hanger of the character described comprising a resilient bar including means at an intermediate point for securing said bar in the front portion of a cap, a plate pivotally mounted on the bar on one side of the securing means, a suspension strap having one end connected to said plate, a resilient attaching clip on the other end of the strap, and a socket integral with the bar on the other side of the securing means for the reception of the clip when the strap is not



in use, said socket including a laterally bent portion terminating in a reversely bent end portion of the bar extending in spaced, opposed relation thereto, inturned side flanges on said reversely bent end portion, and flanges on the longitudinal edges of the bar abutting the first named flanges.

2,663,876
BODY GARMENT AND CARGO POCKET THEREFOR
Cornell M. Miller, Philadelphia, Pa., and Robert L. Woodbury, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army
Application November 21, 1951, Serial No. 257,630
12 Claims. (Cl. 2—227)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a body garment, a cargo pocket secured thereto, said pocket including a top and a bottom, said pocket being formed with a restricted opening therethrough between said top and said bottom, flexible tie means secured to said garment interiorly of said pocket, said tie means including two tie portions freely extensible through said opening to provide means for encircling a portion of the wearer and binding said pocket and contents to the wearer of said garment.

2,663,877
MEANS FOR PREVENTING THE SEPARATION OF PAIRS OF SOCKS AND THE LIKE DURING LAUNDERING
Robert Joseph Behman, Englewood, N. J.
Application June 14, 1951, Serial No. 231,563
1 Claim. (Cl. 2—239)

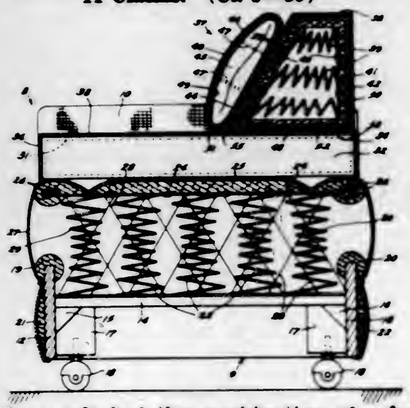
A pair of matching socks each open at its top, a tab at a side of the top of each sock consisting of a fabric strip doubled to provide a U-shaped formation and disposed in straddling relation to the upper edge of the sock with inner and outer portions of the tab disposed against inner and

outer surfaces of the sock, stitches passing through the sock and marginal portions of the inner and outer portions of the tab, and companion snap fastener members secured against



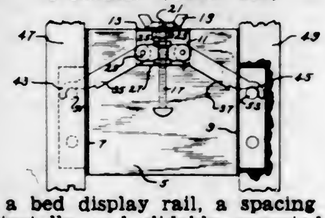
the outer portions of each of the tabs carried by the socks, said fastener members being detachably engageable with each other and serving to detachably hold the socks together.

2,663,878
SOFA BED BACK REST
Harry A. Backus, Cincinnati, Ohio
Application February 16, 1951, Serial No. 211,338
11 Claims. (Cl. 5—59)



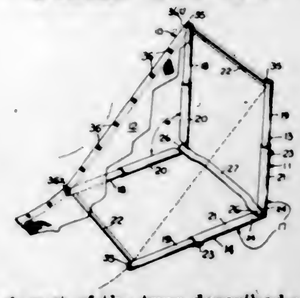
1. In a sofa bed the combination of a frame, a box spring assembly extending above the frame at least along the front and rear edges thereof, a mattress upon the spring assembly, means for reenforcing that portion of the spring assembly along the front and rear edges of the mattress, a fabric mattress cover having a comparatively rough facing, means for removably securing the cover on the mattress against edgewise movement, and a number of back rests disposed in a row upon the back edge portion of the covered mattress and each rest comprising a resilient and relatively dense, form retaining bolster part having a flat, stabilizing bottom wall, a soft, pliable forepart for the bolster, and a fabric case enclosing the parts and maintaining said parts in fixed relative positions, said case having a comparatively rough facing on at least its bottom wall in frictional contact with the back edge portion of the said mattress cover for maintaining the bolster part in position upon the back edge portion of the covered mattress.

2,663,879
DISPLAY RAIL
Glenn E. Hill, Los Angeles, Calif., assignor to Irvin A. Brock, Los Angeles, Calif.
Application June 15, 1948, Serial No. 33,140
6 Claims. (Cl. 5—287)



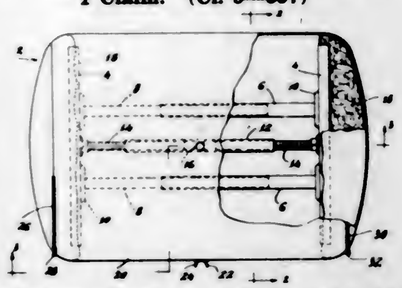
1. In a bed display rail, a spacing member, arms pivotally and slidably mounted on said member, hooks on the extremities of said arms adapted to engage cross pins in the head and foot posts of a bed, and a thumb screw on the member and connections between the thumb screw and the arms for moving said arms to draw the head and foot posts of the beds against the spacing member.

2,663,880
COLLAPSIBLE BACK REST
James W. Meeks, Salinas, Calif.
Application May 3, 1952, Serial No. 285,952
9 Claims. (Cl. 5—327)



2. A back rest of the type described comprising two sets of arms hingedly connected together for swinging movement toward and from each other, a stretch band, means on the extreme ends of said arms opposite the hinged ends thereof for securing said stretch band to said arms, limiting means cooperating with said hingedly connected arms for limiting movement of said arms beyond substantially right angle disposition when said arms are swung in one direction about said hinged connection thereof, said limiting means comprising a quadrantal block having one of its quadrantal faces secured to one of said sets of arms and its other quadrantal face disposed to abut the other of sets of arms upon movement thereof in said one direction.

2,663,881
ADJUSTABLE FILLERLESS STRETCHED PILLOWS
Karl E. Mira, Rego Park, N. Y.
Application February 4, 1952, Serial No. 269,720
1 Claim. (Cl. 5—337)



A fillerless pillow comprising a pair of longitudinal plates in spaced relation to each other, at least one first member perpendicularly extending from that side of the first one of said plates which faces the second plate, at least one second member extending from the second plate and being slidable in said first member, a pair of threaded spindles extending from the center portions of those sides of said plates which face each other, an internally threaded hollow member being screwed upon portions of said spindles, handle means radially extending from said hollow member, cushioning means provided at the edge portions and at those sides of said plates which are

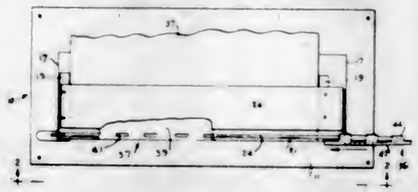
opposite to the sides of said plates which face each other, and an envelope encompassing said plates, said members, said spindles and said cushioning means; said envelope having an opening for facilitating access to said handle means, and closure means being provided on said envelope for closing said opening.

2,663,882
EDGE ROLL FOR SPRING CUSHION ASSEMBLIES
William F. Richardson, Carthage, Mo., assignor to Flex-O-Laters, Inc., Carthage, Mo., a corporation of Missouri
Application February 20, 1952, Serial No. 272,532
5 Claims. (Cl. 5—360)



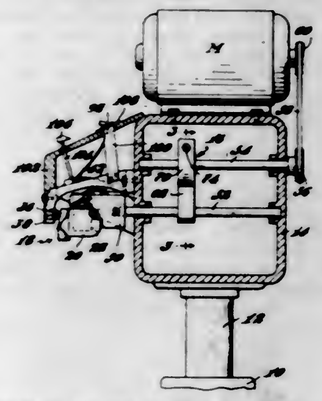
1. An edge roll for spring mattress assemblies comprising an elongated flattened pliable padded member adapted to be folded longitudinally along its midline, said padded member having a series of longitudinally spaced apart holes formed therethrough adjacent one longitudinal edge thereof, and a resilient wire extending longitudinally of said padded member adjacent the opposite longitudinal edge thereof, said wire being secured to said padded member at longitudinally spaced apart points and being formed to present a series of longitudinally spaced transversely compressible heads each in transverse alignment with one of said holes and adapted to be snapped through said hole when said padded member is folded.

2,663,883
APPARATUS FOR ASSEMBLING TUBULAR BINDERS WITH LOOSE-LEAF BOOKS
Albert Freundlich, New York, N. Y.
Application September 29, 1952, Serial No. 312,015
11 Claims. (Cl. 11—1)



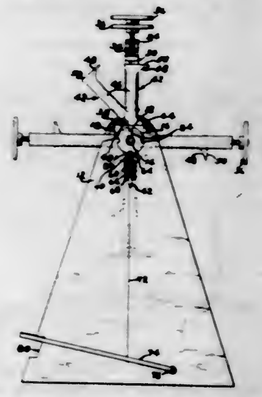
1. Apparatus of the character described, comprising a pair of opposed spaced guide plates forming a channel therebetween into which a loose leaf book with slots may be introduced, said plates having longitudinal opposed ribs, and means at one end of the plates to spread open the fingers of a tubular binder slipped onto said plates, so that the fingers are aligned with the slots in the loose leaf book whereby the book may be pushed against the inside of the backbone of the tubular binder and through the channel to push the tubular binder off said plates.

2,663,884
APPARATUS FOR SHOE MANUFACTURE
Agenor Eugene St. Germain, Haverhill, Mass.
Application January 30, 1951, Serial No. 208,601
7 Claims. (Cl. 12—17)



1. Apparatus for use in shoe manufacture comprising an iron having a smooth, arcuate surface with which the work may be held engaged, means for supporting the iron for oscillation about a substantially horizontal axis passing through the center of curvature of the arcuate surface so that any given generatrix of the surface extends forwardly and rearwardly substantially parallel to the axis of oscillation, and means for effecting oscillation of said support means, said arcuate surface having a substantially lenticular shaped area and being slightly concave widthwise thereof.

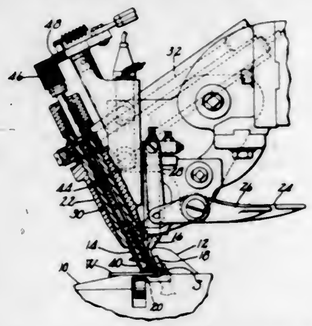
2,663,885
SHOE PRESS
Peter J. Elkes, High Point, N. C.
Application November 16, 1951, Serial No. 256,796
1 Claim. (Cl. 12—37)



In a press for half-soling shoes a bed frame, spaced parallel upstanding arms carried by the bed frame, a rotor carried by the arms to rotate therebetween about a horizontal axis, groups of parallel peripherally spaced guides carried by the rotor and extending radially therefrom, clamp plates carried by the guides for movement to-

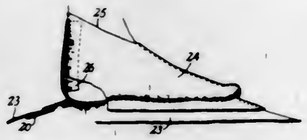
ward and away from the rotor along axes which lie radial thereto, anvils carried by the rotor for movement about peripherally spaced horizontal axes from positions between the rotor and the clamp plates in which they lie radial to the rotor to positions in which they lie other than radial to the rotor, said axes being parallel with the axis of said rotor, hand actuated means carried by the guides and connected to the clamp plates for moving said plates along the guides, a notched disc on said rotor, foot actuated means for locking said rotor in said press and for releasing said rotor from a locked position, said foot actuated means comprising a treadle, a cable, and a spring operated bolt, said bolt engaging said notched disc whereby a downward movement of the treadle will cause an unlocking of said bolt from said disc.

2,663,886
FOLDING MACHINE
Arthur W. Jester, Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 11, 1951, Serial No. 241,450
8 Claims. (Cl. 12—55)



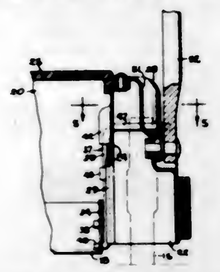
1. In a folding machine, means for folding the margin of a piece of work, a hammer for pressing the folded margin upon the body of the work, and means for simultaneously delivering adhesive to the body of the work and to the folded margin in narrow bands spaced differently from the line of fold, said means being located to apply the adhesive just prior to the action of the hammer.

2,663,887
PROCESS OF MAKING SHOES
Alan E. Murray, New York, N. Y.
Application January 24, 1952, Serial No. 268,036
8 Claims. (Cl. 12—142)



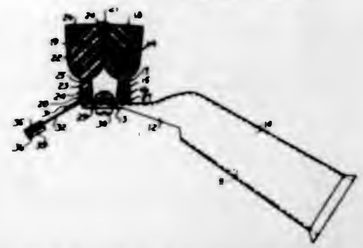
1. The process which comprises applying to a foot a moldable plastic toe-spacing element between two adjacent toes extending to the upper portions thereof and molding said element between the toes to provide added width to the group-toe portion, and molding a foot support from molding materials applied over the foot while the toes are separated by the molded toe-spacing element.

2,663,888
CARPET SWEEPER AND CONTROL
Berthold R. Thiele, Ripon, Wis., assignor to Speed Queen Corporation, Ripon, Wis., a corporation of Delaware
Original application November 17, 1944, Serial No. 563,845, now Patent No. 2,602,175, dated July 8, 1952. Divided and this application June 6, 1951, Serial No. 230,130
4 Claims. (Cl. 15—41)



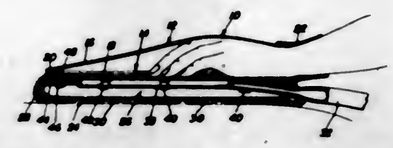
1. In a carpet sweeper of the class described, the combination of a generally rectangular casing, two opposed dust pans pivotally mounted in said casing, a handle bail having two spaced arms pivotally attached to opposite ends of said casing, a compound stabilizer and dust pan control member having spaced resilient legs pivotally connected to said respective pans, a control handle interconnected between said legs and positioned outside of said casing in engagement with one of said arms, said handle being formed to present an outwardly open medial notch adapted to coact with said one arm to maintain said bail in raised position, said handle having end sections on opposite sides of said notch adapted to engage said one arm for stabilizing said sweeper upon inclination of said bail from its raised position as an incident to operation of the sweeper.

2,663,889
COMBINATION BRUSH AND SPONGE WINDSHIELD CLEANER
Elmer A. Fuglie, Winona, Minn., assignor to Winona Tool Manufacturing Company, a partnership
Application September 29, 1947, Serial No. 776,832
7 Claims. (Cl. 15—114)



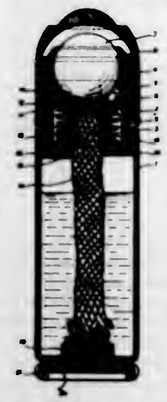
1. A windshield cleaner, comprising a supporting member, a pair of compressible liquid absorbing members rigidly supported in side-by-side relationship on said supporting member, said absorbing members each having an outer contacting surface for rubbing a windshield, and a row of relatively short stiff bristles extending between the adjacent surfaces of said absorbing members, said bristles having their outer ends extending beyond the outer contacting surfaces of said absorbing members and their inner ends resiliently supported between the outer contacting surfaces of the absorbing members and the supporting member and in spaced relation thereto to permit relative movement between the bristles and a portion of the outer surfaces of the absorbing members when pressure is applied to the outer ends of the bristles.

2,663,890
CAR WASHING GLOVE WITH WATER SUPPLY MEANS
Albert E. Sullins, Ottawa, Kans.
Application July 11, 1950, Serial No. 173,027
1 Claim. (Cl. 15—128)



In a car washing glove, the combination of a hollow top member defining a hand receiving pocket and including a lower wall, fastener elements provided at the underside of said lower wall adjacent marginal edges thereof, a fabric bottom member disposed under said top member and having upturned and inturned marginal edge portions, wiping fibres carried by said bottom member, coacting fastener elements provided on the last mentioned edge portions and separably secured to the first mentioned elements, said bottom member coacting with said lower wall to provide a water chamber having outlet openings in the bottom member, a fork-shaped water supply tube disposed in the water chamber and provided with outlet apertures, and a plurality of keeper straps secured to the underside of said lower wall and extending transversely under said tube to sustain the latter in position.

2,663,891
CONTACT DELIVERY DEVICE FOR PERFUME
Maurice Paul Hanryon, Compiegne, France
Application June 9, 1949, Serial No. 98,091
Claims priority, application France July 8, 1948
1 Claim. (Cl. 15—132.7)



A contact-delivery device comprising a perfume container having an open end, a tubular plug sealingly fitted to the open end of said container and having a substantially cylindrical cavity therein terminating in a circular outlet of lesser radius than said cylindrical cavity to provide an annular ball seat, a plastic ball in said cavity engageable with said seat for closing said opening, an internally screw-threaded bushing mounted coaxially within said cavity and formed with a radial flange at the container end thereof, said flange being fixed to the inner end of said plug, an annular member slideably mounted within said plug cavity externally of said bushing and formed at the end thereof adjacent the plug-outlet with a piston-like radial flange, a coil spring in said cavity compressed between the flanges of the bushing and annular member, ball-bearing means disposed above said piston-like flange and beneath said ball for transmitting the pressure exerted by said spring on the piston-like flange to the plastic ball urging it onto its seat, said plug having a vent duct therein extending from the cavity in the plug at a position adjacent the seat for the plastic ball to interior of the perfume container and a cylindrical wick extending through the internally screw threaded bushing from the interior of said perfume container into brushing contact with the plastic ball, and threadedly engaged with the threads of said bushing.

2,663,892
EDGING ROLLER
Albert W. Schaefer, Los Angeles, Calif.
Application September 20, 1948, Serial No. 50,216
4 Claims. (Cl. 15—230)

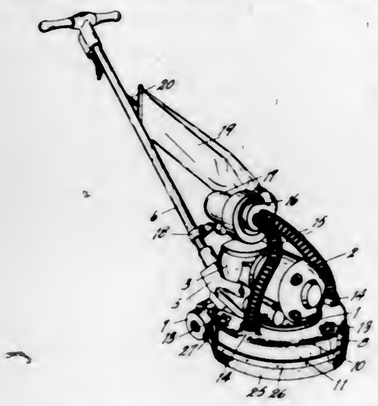


3. A paint applicator comprising a frame member including a handle portion and a shaft, a sleeve supporting disc rotatably mounted on said shaft, said disc having a flange disposed on the side thereof adjacent the handle, a flexible napped sleeve receivable on the disc against the flange, said flange terminating short of the periphery of the napped sleeve, said sleeve having separate inwardly extending protuberances thereon, said protuberances being individually connected to the sleeve and being spaced from one another so as not to impair flexibility of the sleeve, said disc having an abutting formation disposed outwardly of and in abutting relationship with said protuberances on the sleeve to releasably retain said sleeve on the disc.

2,663,893
FLOOR TREATMENT IMPLEMENT WITH VACUUM CLEANING MECHANISM
La Vern A. Percy, Kalamazoo, Mich.
Application July 14, 1950, Serial No. 173,718
8 Claims. (Cl. 15—328)

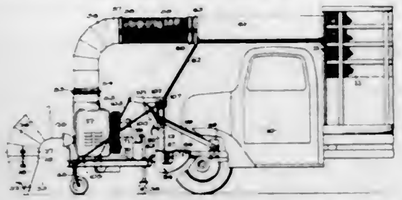
6. In combination with a floor treating machine having a flat circular power driven brush rotatively mounted on the underside of a base and a handle connected to the rear of said base for guiding said machine, a hood removably secured around the front and sides of said base and having a depending outer flange projecting

downwardly in radially spaced relationship with said base, a flexible skirt secured around the bottom of said hood and the back of said base in radially spaced relation to said brush and projecting into wrinkling contact with the floor when said brush is operatively engaged with the floor, a vacuum motor and fan mounted on said machine, a vacuum tube opening from the inlet



of said fan to the space between said hood and said base, and means on the underside of said hood adjacent to said tube forming a downwardly opening narrow arcuate vacuum throat between said tube and the space within said skirt, said throat projecting downwardly to the bottom of said flange and to below the level of said base.

2,663,894
VACUUM STREET CLEANER
Marion A. Elliotte, Grafton, N. Y.
Application May 31, 1950, Serial No. 165,312
5 Claims. (Cl. 15—340)



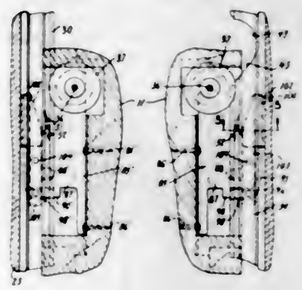
1. A vacuum type street cleaner adapted to be mounted for propulsion at the front end of a truck having a screened body for receiving collected litter, comprising in combination, a chassis frame, castered front wheels for said frame, means to hinge the rear end of the frame to the front of a truck, a self-contained internal combustion power-unit arranged along the left side of the chassis and below the line of the truck-driver's vision in driving, a suction fan mounted near the other side of the chassis, the shafts of said unit and fan extending longitudinally of the frame and having a driving connection therebetween, said fan having a casing with a central inlet facing forward and a tangential discharge to the right and facing up, a bent suction pipe extending from said inlet and having a suction nozzle adjacent the roadway in front of said frame and a discharge pipe connected to said fan discharge extending vertically above the fan casing and then being turned rearwardly for delivery in a substantially leak-proof manner into the screened body.

2,663,895
BUSHING
Hector D. Petri, Framingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application July 13, 1950, Serial No. 173,524
3 Claims. (Cl. 16—2)



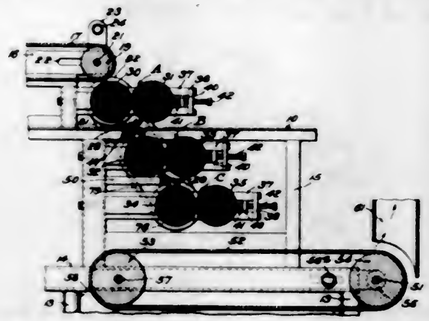
1. A bushing for snapping engagement with a panel through an opening therein, said bushing comprising a body portion for entering the opening, said body having flange means disposed thereabout for bearing against the panel; a panel-engaging member assembled on the body portion, said member comprising a ring portion disposed about the body and a series of spring arms extending generally toward the flange from the ring portion, said arms terminating in spaced relation to the flange and having outwardly extending snap shoulder portions disposed therein, means on said member extending from the ring portion toward the flange for contact therewith to retain said member in spaced relation thereto and means formed from the body for bearing against the ring on the side opposite the arms to retain the ring in engagement in the body.

2,663,896
SASH CORD FASTENER
Earl M. Trammell, Sr., and Earl M. Trammell, Jr., St. Louis, Mo.
Application October 11, 1948, Serial No. 53,922
11 Claims. (Cl. 16—202)



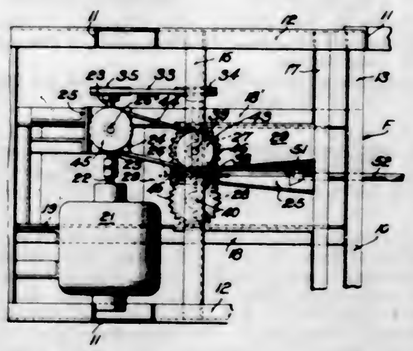
1. A two-part fixture to provide a temporary anchorage for a balance cord in a slidable sash assembly, one of the parts of the fixture including a tongue in the form of a plate element having a shoulder spaced from its free end, the other part being provided with spaced resilient guide plates and resilient tongue-engaging jaws, the said guide plates being adapted to direct the tongue into position between the jaws, one of said jaws having a portion formed to engage and detachably to fit the shoulder of the tongue, one of said fixture parts being secured to the cord and the other being fixed along the sashway, whereby when the tongue and jaws are brought into engagement, the cord is positioned for detachment from, and further connection to the sash.

2,663,897
APPARATUS FOR REMOVING HEADS FROM BODIES OF SHRIMPS
Charles A. Greiner, New Orleans, and Elbert F. Greiner, Metarie, La.
Application April 27, 1950, Serial No. 158,514
8 Claims. (Cl. 17—2)



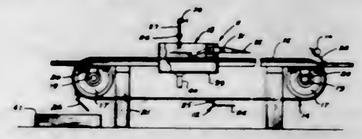
1. A shrimp deheading machine comprising a pair of resilient contacting rolls having parallel bearing shafts, each of said rolls having a body portion surrounding its respective shaft and composed of sponge rubber or the like requiring pressure from five to thirteen pounds per square inch to compress the roll one quarter of its radial thickness.

2,663,898
MACHINE FOR DEVEINING SHRIMPS
Elbert F. Greiner, New Orleans, La.
Application December 11, 1952, Serial No. 325,341
8 Claims. (Cl. 17—2)



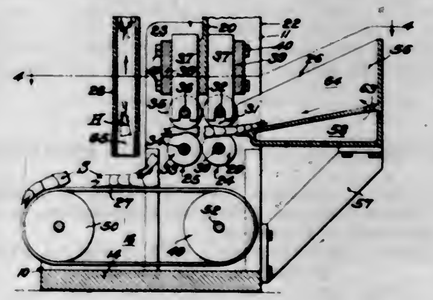
1. In a shrimp deveining machine, a chute of substantially U-shape in cross section disposed in a downwardly inclined position and down which a shrimp may slide by gravity with its back down and its length extending endwise of the chute, a flat gage at the lower end of the chute, a pair of opposed rolls positioned above said gage and rotatable on parallel axes substantially perpendicular to said gage, said rolls being formed of deformable resilient material and having their peripheral portions spaced to receive and grip the the sides of a shrimp adjacent its back, a cutter blade disposed to project above said gage and centered in the space between the peripheries of said opposed rolls, an upper roll disposed opposite the space between said opposed rolls and rotatable on an axis at right angles to the axis of said opposed rolls, said upper roll being formed of deformable resilient material to yieldably press the shrimp downwardly between said opposed rolls to maintain the back of the shrimp in contact with said gage as the rolls convey the shrimp across said cutter blade, and means for driving said rolls at substantially the same speed.

2,663,899
DEVICE FOR CLEANING POULTRY GIZZARDS OR THE LIKE
Guy R. Biddinger, Bellwood, and Carl H. Koons, Chicago, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
Original application July 22, 1950, Serial No. 175,412. Divided and this application February 19, 1952, Serial No. 272,332
12 Claims. (Cl. 17—11)



1. An apparatus for opening poultry gizzards or the like, including a plurality of slender pales each having longitudinal grooves therein and adapted to be inserted through the gizzards, a pusher member associated with each of said pales to provide an abutment for the gizzards placed thereon, conveyor means to move each of said pales and associated pusher members along a given path at spaced intervals, with said grooves parallel to the line of movement, a pointed knife, the pointed end of which is receivable within said groove with the knife edge disposed away from the pale, and means to support said knife along said path in a position in which the knife is substantially parallel to the grooves in the pales, with the knife point toward the approaching pales and position to be received in said grooves with the edge of the knife projecting outwardly from said pales whereby the knife edge will be pushed through and will sever the walls of the gizzard between the groove and a side of the gizzard.

2,663,900
METHOD FOR REMOVING HEADS FROM BODIES OF SHRIMPS
Charles A. Greiner and Elbert F. Greiner, New Orleans, La.
Application January 4, 1950, Serial No. 136,774
2 Claims. (Cl. 17—45)



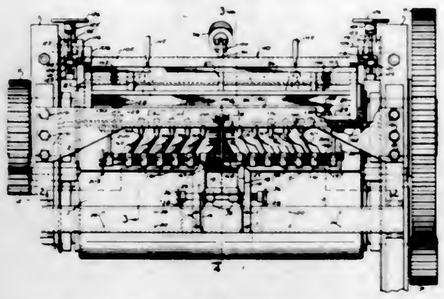
1. The method of separating the head from the body of a shrimp which comprises applying to the head and body portions of said shrimp differentially progressive pulling force.

2,663,901

APPARATUS FOR MILLING RUBBER

Andrew Hale and Gilbert V. Kullgren, Akron, Ohio, assignors, by mesne assignments, to The Aetna-Standard Engineering Company, Youngstown, Ohio, a corporation of Ohio

Application November 4, 1950, Serial No. 194,123
7 Claims. (Cl. 18—2)



1. In a rubber milling machine, the combination of two rotatable rolls spaced apart to provide a restricted bite at which the rubber will form a rolling bank, one of said rolls being a feed roll and the other a work roll to which a sheet of rubber will cling after it passes the bite, a plurality of knives arranged axially along the work roll to cut the sheet of rubber into a plurality of strips, means spaced from the bite to roll each strip of rubber, after it passes the knives upon itself to form a convolute roll of rubber, said means being constructed to direct each convolute roll of rubber substantially endwise into the rolling bank at the bite.

2,663,902

MEANS FOR STRIPPING RUBBER ARTICLES FROM A CORE

Volney S. Anderson, Los Angeles, Calif.

Application February 20, 1951, Serial No. 211,922
3 Claims. (Cl. 18—2)



1. In apparatus for stripping a rubber-like molded article from the core element of a mold, a sleeve shaped in cross-section to conform to the exterior surface of said core element, means for inserting said sleeve axially between the periphery of said core element and an article molded thereon, and means in the sleeve for discharging fluid under pressure therein during said insertion.

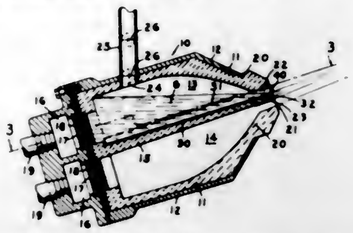
2,663,903

METHOD AND APPARATUS FOR PRODUCING FIBERS

Charles J. Stalego, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Application November 2, 1948, Serial No. 57,903
15 Claims. (Cl. 18—2.5)

1. The process of producing relatively fine fibers which comprises burning a combustible gaseous mixture in separate chambers having a wall common to the chambers, discharging the products of combustion from the chambers through restricted ports located at opposite sides of the wall, introducing glass into one chamber under a pressure at least as great as the pressure within the chamber, melting the glass in contact with the gases of combustion taking place in the chamber, flowing the molten glass along said common wall toward the outlet opening in said one chamber, and blowing the molten glass from said wall by the force of the gases issuing from said outlet openings.



7. Apparatus for producing glass fibers, comprising a burner assembly having a chamber in which a combustible gaseous mixture is burned to provide a temperature in the chamber exceeding the melting point of glass, a restricted outlet opening in the front wall of the burner through which the products of combustion are discharged in the form of an intensely hot high velocity blast, means for feeding glass into the combustion chamber at a point spaced rearwardly of the outlet opening, the bottom wall of the chamber being inclined upwardly to provide a pool of glass in the chamber, and projections on the bottom wall of the outlet opening from which streams of molten glass are drawn from the pool by the force of the blast issuing from the outlet opening.

2,663,904

EXTRUSION OF THERMOPLASTICS

Charles E. Slaughter, New Canaan, Conn., assignor to Extruded Plastics, Inc., a corporation of Connecticut

Application December 12, 1950, Serial No. 200,344
8 Claims. (Cl. 18—14)



1. The method of manufacturing thermoplastic tubing of fixed bore by extrusion which comprises extruding thermoplastic unconstrained tubing in non-self-sustaining plastic condition, introducing a fluid within the tubing during extrusion to prevent collapse of the unconstrained tubing, maintaining the pressure of the fluid within the unconstrained tubing substantially uniform, cooling the tubing to a temperature at which it is self-sustaining, the pressure being maintained by liquid trapped in the extruded tubing at a point where it is self-sustaining.

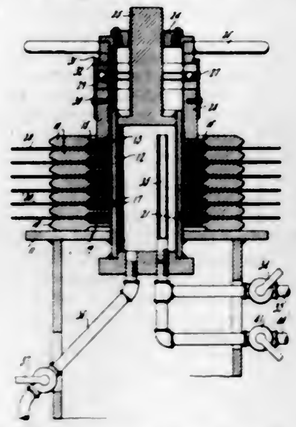
5. Apparatus for manufacturing thermoplastic tubing of fixed bore by extrusion which comprises means for extruding thermoplastic unconstrained tubing in non-self-sustaining plastic condition, means for introducing a fluid within the tubing during extrusion to prevent collapse of the unconstrained tubing, means for maintaining the pressure of the fluid substantially uniform within the unconstrained tubing, and means for cooling the tubing to a temperature at which it is self-sustaining, the pressure maintaining means including liquid trapped in the extruded tubing at a point where it is self-sustaining.

2,663,905

SUPERIMPOSED MULTIPLE CAVITY MOLD

Elmer Van Riper, Rochelle Park, and George W. Frey, Wyckoff, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application September 6, 1951, Serial No. 245,286
4 Claims. (Cl. 18—17)



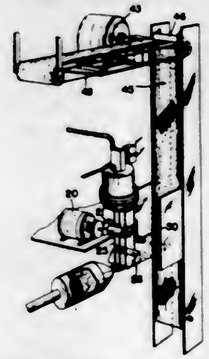
1. A molding apparatus comprising a hollow post, a plurality of superimposed mold plates, each of said plates including an end plate having a central opening adapted to fit over and in slidable contact with said post, said plates and posts forming the walls of mold cavities surrounding said post and interposed between said plates, means for applying pressure to the face of said end plate and thereby force said plates towards each other, and means for admitting and exhausting heating fluid to and from said hollow post to conduct heat to said mold cavities.

2,663,906

METHOD FOR PRODUCING GLASS FIBERS AND BONDED MAT

Dominick Labino, Maumee, Ohio, assignor to Glass Fibers, Inc., Toledo, Ohio, a corporation of Ohio

Application June 19, 1951, Serial No. 232,420
2 Claims. (Cl. 18—47.3)



1. The method of producing staple glass fibers of uniform fineness which fibers are substantially free of shot, said method comprising the steps of establishing a plurality of strands of glass filaments, directing a high temperature gaseous blast against the ends of said plurality of filaments to melt said filaments at their ends, said gaseous blast having a carbon monoxide content by volume of between about 1 to 4% providing a reducing atmosphere, said gaseous blast being directed against the filaments at high velocity to blow and attenuate said filaments into uniform staple fibers of microscopic fineness.

2,663,907

CONVERTING FIBROUS CELLULOSE INTO AN EASILY POWDERABLE FORM

John Downing and James Gordon Napier Drewitt, Spondon, near Derby, England, assignors to British Celanese Limited, a company of Great Britain

No Drawing. Application January 14, 1950, Serial No. 138,702
Claims priority, application Great Britain February 14, 1949
7 Claims. (Cl. 18—48)

1. Process for the treatment of cellulose which is in a visibly fibrous form to render it more easily powdered, which comprises subjecting the visibly fibrous cellulose to the simultaneous action of mechanical pressure and shearing forces applied quickly to the cellulose by the combined forwarding and crushing action of two opposing rotating hard cylindrical surfaces having a temperature below 150° C. and a clearance at the nip less than 0.05 inch, whereby there is generated in the cellulose sufficient heat to raise it to an elevated temperature below its charring temperature, and the visibly fibrous cellulose is changed into a brittle form no longer possessing a fibrous appearance.

2,663,908

PRODUCTION OF CLOSURE SEALS BY PARTIALLY CURING, SHAPING, AND COMPLETING THE CURE

Curtis E. Maier, Riverside, Halford E. Breckett, Lombard, and Ralph A. Larsen, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application November 8, 1950, Serial No. 194,684
10 Claims. (Cl. 18—59)



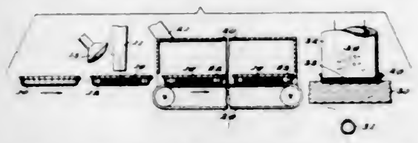
1. The method of forming sealing pads for closure seals, which comprises depositing in a closure shell a quantity of a semi-liquid paste composition consisting of essential components thereof of a normally liquid plasticizer and a finely divided resin which is paste-forming with the plasticizer at a temperature below the fluxing temperature of the resin-plasticizer components, said composition being capable upon being heated to the fluxing temperature of the resin-plasticizer components thereof of forming a permanent rubbery gel, heating the deposited mass until it is non-tacky, pressing a heated forming plunger against the non-tacky mass prior to completed curing thereof and thereby shaping the same into a sealing pad of the desired contour, separating the plunger and mass prior to completed curing thereof, and thereafter maintaining said shaped pad under heat at a fluxing temperature until the said resin-plasticizer components have completely fluxed together.

2,663,909

PRODUCTION OF CLOSURE SEALS BY PARTIALLY CURING A CUSHION MATERIAL AND THEREAFTER SHAPING AND COMPLETING THE CURE

Curtis E. Maier, Riverside, Halford E. Brockett, Lombard, and Ralph A. Larson, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application November 8, 1950, Serial No. 194,685
10 Claims. (Cl. 18—59)



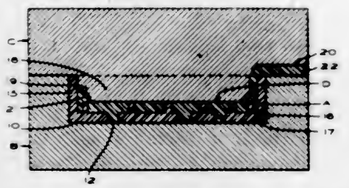
1. The method of forming sealing pads for closure seals, which comprises depositing in a closure shell a quantity of a semi-liquid paste composition consisting for essential components thereof of a normally liquid plasticizer and a finely divided resin which is paste-forming with the plasticizer at a temperature below the fluxing temperature of the resin-plasticizer components, said composition being capable upon being heated to the fluxing temperature of the resin-plasticizer components thereof of forming a permanent rubbery gel, heating the deposited mass until it is non-tacky, pressing a heated forming plunger against the non-tacky mass prior to completed curing thereof and thereby shaping the same into a sealing pad of the desired contour, and maintaining said shaped pad under heat and the pressure of said plunger and at a fluxing temperature until the said resin-plasticizer components have completely fluxed together.

2,663,910

METHOD OF FORMING A MULTIPART PLASTIC STRUCTURE

Elmer L. Danielson, Oakland, and Floyd J. Dofsen, San Francisco, Calif., assignors to Elmer L. Danielson and Floyd J. Dofsen, as joint tenants.

Application July 6, 1951, Serial No. 235,416
5 Claims. (Cl. 18—59)



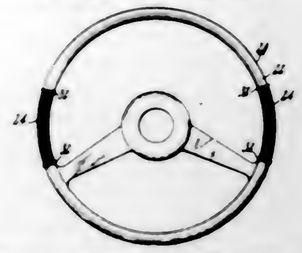
1. In the herein described method of forming a multipart plastic structure, the steps of: precasting a first plastic part with a plurality of individual spaced-apart projections extending from a rear face thereof; said face being adapted to have a second plastic part cast thereagainst; this precast part being provided with a character-defining slot extending therethrough from its rear face to an opposing front face; butting the front face of the precast part against a supporting wall to provide a barrier over the slot at the front face of this part; applying pressure against the projections in a direction to move and hold the front face of the precast part in intimate contact with the supporting wall; and injecting material for a second plastic part under heat and force against said rear face of the precast part to fill the spaces among the projections, with said material surrounding and embedding the projections; the temperature of the injected material being sufficient to bond the two plastic parts into a unitary structure; said material further filling the slot to provide a character therein viewable from the front face of the precast part in the final structure; the injecting of the material for the second part being accomplished while maintaining the pressure on the projections to thereby retain the front face of the precast part up against the supporting wall to prevent this material from flashing therebetween and marring the front face of the precast part, and further preventing said front face from yielding away from the supporting wall during the injecting of the material for the second part.

2,663,911

METHOD OF DECORATING PLASTICS

Harry O. Waag and Stanley R. Prance, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application June 27, 1951, Serial No. 233,716
1 Claim. (Cl. 18—61)



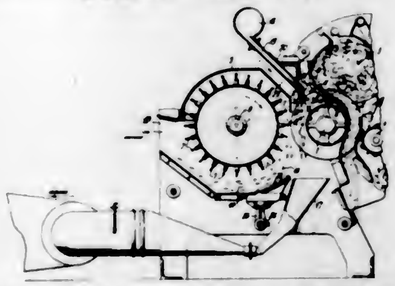
In a method for ornamentally decorating a reinforced plastic steering wheel made from thermoplastic material wherein simulated leather hand grips are provided on the rim portion thereof, the steps comprising; wrapping an absorbent material having a leather-like grain around the portions of the rim to be textured, applying solvent for said thermoplastic to said absorbent material, firmly pressing the solvent ladened material into the surface of the rim for transferring the leather-like grain from the material to the rim surface, removing the texturing material, then suitably finishing the textured surface.

2,663,912

DYNAMIC PNEUMATIC MOTING AND LINT CLEANING BRUSH GIN

Jeffrey J. Wallace, Amite, La., assignor to Gullett Gin Company, a corporation of Louisiana

Application July 26, 1951, Serial No. 238,683
8 Claims. (Cl. 19—58)



7. Cotton gin comprising a saw cylinder including spaced saws with spacers therebetween, ginning ribs between which said saws operate, and doffing means operating at a doffing point on said cylinder remote from said ginning ribs, a high velocity blast nozzle intermediate said ginning ribs and said doffing point terminating substantially at the periphery of said saw cylinder having nozzle outlets individual to the spaces between the saws, said nozzle being positioned to direct jets from said nozzle outlets chordally of said saws, downward between said saws and between the spacers and said doffing point, said jets sweeping adhered motes from the wisps of lint carried by the saw teeth, becoming mote laden, a collecter under suction below said cylinder in the path of the mote laden jets for withdrawing said jets with their mote content, and a deflector at the discharge end of said nozzle for directing a portion of said jets to the opposite sides of said spacers and through said ginning ribs, for agitating the seeds which are descending gravitationally down the opposite sides of said ginning ribs, accelerating their discharge.

2,663,913

GRANDSTAND

Charles Mackintosh, Los Angeles, Calif.

Application October 21, 1949, Serial No. 122,683
14 Claims. (Cl. 20—1.126)



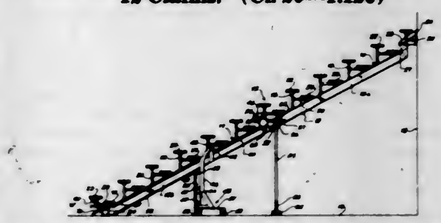
1. A folding grandstand comprising, in combination, a supporting frame comprising two hinged sections and adapted when opened for use to occupy a plane of gradual inclination to the horizontal with the lower forward end of the stand resting adjacent the ground surface, each of the frame sections being made up of spaced parallel side beams, vertical seat posts secured at spaced intervals along said side beams, and horizontal bars extending from points on said side beams above and rearwardly of the seat posts and abutting the latter substantially at right angles, the ends of said bars being secured respectively to the side beams and seat posts, traversely extending seat-boards secured to and resting upon the upper ends of the seat posts and transverse foot-boards alternating with the seat-boards and secured to and resting upon said horizontal bars, the hinge axis of the frame occurring adjacent a pair of opposite seat posts, a pair of struts extending upwardly from the side beams at the rearward end of the forward section and a pair of struts extending upwardly from the forward end of the rearward section, a pintle rod connecting the upper ends of all of said struts, said rod passing freely through openings in the pairs of struts of one of the frame sections, means rigidly connecting said rod to the struts of the other frame section, and means rigidly connecting the center of said rod to the one frame section, whereby the rod acts as a torsion bar resiliently balancing the two sections during the folding and unfolding operations.

2,663,914

GRANDSTAND

Charles Mackintosh, Los Angeles, Calif.

Application December 9, 1949, Serial No. 132,013
12 Claims. (Cl. 20—1.126)



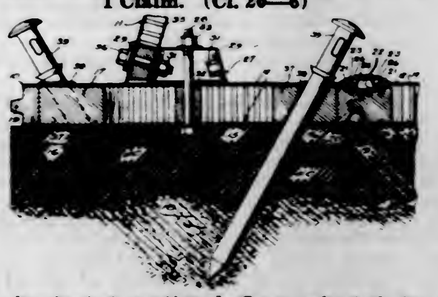
1. A folding grandstand comprising, in combination, a supporting frame comprising a forward and a rearward section horizontally hinged together at their adjacent edges, the frame adapted when opened for use to occupy a plane of gradual inclination to the horizontal with the lower forward end of the forward section resting adjacent the ground surface, a pivotal support for the upper rearward portion of the rearward section maintained at a fixed elevation above ground level, a hinge pintle pivotally securing said sections together and disposed at a point upwardly of the plane of the frame at least as far as the upper surface thereof, whereby the sections may be folded toward collapsed position one against the other in relatively upward rotary directions with respect to the axis of said pintle, a supporting leg for the stand, means pivotally connecting said leg adjacent its upper end to the rearward frame section at a point rearwardly of the pintle, a toggle connection between the upper portion of said leg and the forward section of the stand, said toggle connection consisting of two links having their adjacent ends pivotally connected with each other, one end of one of said links permanently pivotally connected with a point on the forward section of the stand, and the opposite end of the other link pivotally connected with the upper portion of said leg, and means other than the movement of the stand itself for breaking the toggle and for starting the swinging movement of said leg toward the plane of the stand to permit the collapsing of the stand.

2,663,915

SECTIONAL INSULATED FLOOR

Albert Dietrich, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Army

Application July 14, 1950, Serial No. 173,735
1 Claim. (Cl. 20—6)



A laminated sectional floor adapted to be mounted directly on the ground, comprising a rectangular central assembly of floor panels detachably connected together, at least two elon-

gated rectangular assemblies of sill panels detachably connected to opposite sides of said floor panel assembly, said sill panels of said assemblies being interchangeable and reversable end-for-end, said sill panels and floor panels each comprising a top lamination of floor-providing material and a bottom lamination of resilient insulating material, sill boxes mounted atop each sill panel, the sill boxes of each sill panel assembly being in longitudinal alignment, said sill boxes each having upwardly converging side walls, each side wall being formed with means for connecting a wall panel thereto, each sill panel being formed with inner and outer rows of holes therethrough, said rows being on opposite sides of each sill box, the holes of said inner rows being diagonally downwardly directed in one direction, the holes of said outer rows being diagonally downwardly directed in an intersecting direction, and ground-engaging anchoring means for said floor extensible through said holes.

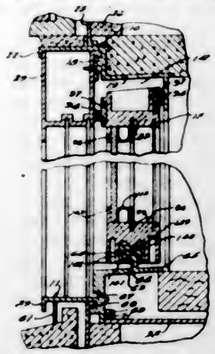
2,663,916
REFRIGERATOR CABINET
Clinton Millman, Greenville, Mich.
Application March 9, 1950, Serial No. 148,641
4 Claims. (Cl. 20—35)



4. A door for a storage cabinet, comprising a generally dish-shaped outer door panel having a front wall and end walls and side walls, said end and side walls being provided with inturned flanges, an inner panel structure having an outer peripheral edge overlying said flange adjacent said side and end walls, said edge having an outwardly turned portion, a resilient gasket member having an outwardly projecting tang extending around said structure outer periphery and having an inwardly opening slot receiving said structure peripheral edge, securing means extending between said flange and said structure and clamping said structure to said flange for mutual support and for causing said outwardly turned portion of said peripheral edge to deform said gasket tang into tight engagement with the adjacent portions of said outer panel.

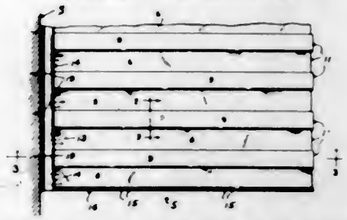
2,663,917
WINDOW STRUCTURE
Gerald D. Peterson, Detroit, Mich., assignor to Peterson Development Corporation, Detroit, Mich., a corporation of Michigan
Application January 28, 1948, Serial No. 4,794
10 Claims. (Cl. 20—52.2)

1. The combination with a window frame having a head section containing a downwardly presenting channel, a sill section having an upwardly presenting track, and jamb sections joining said sill and head sections to complete the frame, a meeting rail joining said head and sill sections of the frame intermediate the jamb sections thereof a horizontally slidable sash for said frame having a top rail projectable within said channel of the head section of the frame, a bottom rail for the sash having a channel in the bottom thereof for receiving said track, stiles joining said top and bottom rails to complete the sash structure, vertical sealing strips on the inner face of one of the jamb sections and the meeting rail of said frame, and vertical sealing strips on the outer faces of the stiles of the sash so located as to be in abutting rela-



tion with the vertical sealing strips of the frame when the sash is in closed position.

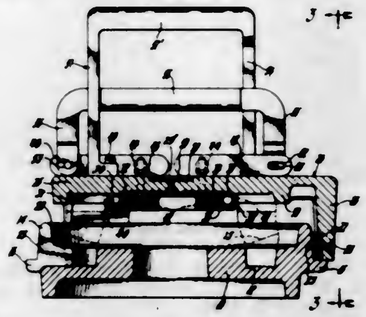
2,663,918
VENTILATING METAL AWNING
Edward W. Pollock, Kingfisher, Okla.
Application February 28, 1950, Serial No. 146,682
2 Claims. (Cl. 20—57.5)



1. A metal awning comprising a plurality of elongated top sections, upstanding tubular beads formed on the side edges of the top sections and having air outlet openings in their outer sides adjacent the upper surfaces thereof, inturned flanges formed on the inner edges of the aforesaid beads and extending longitudinally therein below said air outlet openings, elongated locking top sections, downwardly extending tubular beads formed on the side edges of the locking top sections telescopically engaging the beads on the first mentioned sections, inturned flanges formed on the inner edges of the beads of the top locking sections and extending longitudinally therein in spaced parallelism to the flanges of the first mentioned beads, means securing the aforesaid sections together, side sections suspended from the outer side beads of the top sections, means securing said side sections to the outermost top sections, upstanding flanges formed on the upper ends of the top sections, a flashing section disposed over the upper ends of top sections and flanges formed thereon and straddling a space between the upper ends of the top locking sections, and means securing the flashing and certain flanges of the sections to a support.

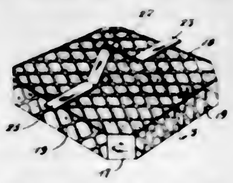
2,663,919
CORE LIFTING AND SETTING FIXTURE
Marshall E. Lentz, Bedford, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 27, 1951, Serial No. 217,807
6 Claims. (Cl. 22—37)

1. An apparatus for handling as a unit a circular series of articles having an outer peripheral surface and an inner peripheral surface, comprising a lower fixture having means for locating and supporting a circular series of articles; an upper fixture; and means for locating the upper fixture in a desired position relative to the lower fixture and series of articles, said upper fixture having downwardly extending means adapted to contact the outer periphery of said circular series of



articles; resilient means normally of somewhat lesser dimension than that of the inner periphery of said circular series of articles in juxtaposition with said downwardly extending means and means for deforming said resilient means to cause the periphery thereof to be enlarged and moved into contact with the inner periphery of said circular series of articles supported on said lower fixture.

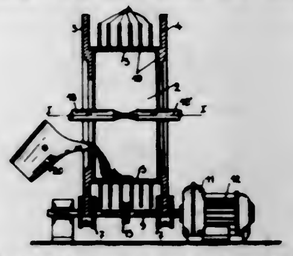
2,663,920
HOT TOP COVER
Benjamin F. Anthony, Cleveland Heights, Ohio, assignor to The Ferro Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application January 4, 1951, Serial No. 204,411
7 Claims. (Cl. 22—147)



1. A light weight hot top cover comprising a slab of rigid refractory material encased upon its sides with retiform metal, whereby the refractory material is protected against physical damage and whereby expansion and contraction of the retiform metal due to thermal changes cause no strains in the refractory material.

2,663,921
METHOD FOR THE CENTRIFUGAL CASTING OF METAL PARTS
Camillo Cito, Uccle, Belgium, assignor to Industrial Research Laboratory Inc., Philadelphia, Pa.
Application June 8, 1949, Serial No. 97,788
2 Claims. (Cl. 22—200.5)

1. The process of centrifugally casting a metallic ringlike ingot, using a metallic mould having a thin wall, which comprises rotating the thin walled metallic mould about its own axis in a horizontal position of the axis at an approximate minimum peripheral speed V expressed as $V^2=2gr^2/r'$ where g is the acceleration of gravity, r is the radius of the inside of the mould and r' is the radius of the inside of the ingot, preheating the interior of the mould to a temperature of about 400° C., cooling the periphery of the mould be a stream of air directed on the outside of the mould, pouring molten metal into the preheated mould and forming the molten metal into a ring in contact with the inside of the mould, continuing the heating of the interior of the mould to heat the metal during the pouring and at least until the entirety of the molten metal cast has taken the ring form in

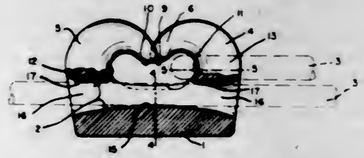


the mould, subsequently stopping interior heating of the mould, subsequently reducing the approximate peripheral speed of the mould to a new value V_1 expressed as $V_1^2=gr^2/r'$ and for a time at least equal to that of the pouring operation, then increasing the approximate peripheral speed of the mould to a new value V_2 expressed as

$$V_2^2=3gr^2/r'$$

and further regulating the cooling rate so that the temperature of the mould does not exceed about 550° C.

2,663,922
DUAL CHOKER HOOK
Robert H. Silver, Schroeder, Minn.
Application December 13, 1951, Serial No. 261,480
2 Claims. (Cl. 24—129)

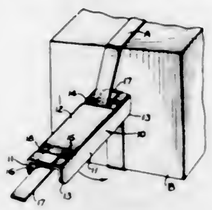


1. A hook for use on a cable having an eye at one end thereof comprising: an elongated body member having a longitudinal passage therethrough, said passage serving to slidably receive said cable therethrough whereby said body member is slidably carried on said cable, a hook member extending laterally away from each end of said body portion toward the longitudinal center of said body and forming a cable eye receiving throat at each end of said body, said hooks having their free ends facing and overlapping each other transversely of said body portion, said hooks being spaced apart by a slot extending diagonally of said body to permit a cable eye to be engaged on and removed from said hooks, and said body member having an opening therein between said hooks and communicating with said passage to permit a kinked cable to slide readily therethrough.

2,663,923
STRAP SEAL
Charles D. Mattingly, Wichita, Kans.
Application May 13, 1952, Serial No. 287,655
3 Claims. (Cl. 24—273)

1. A strap seal for securing an object, comprising a plate having forwardly-turned side

flanges extending continuously from the front to the rear of the plate, said plate having a rear transverse slot near the rear end thereof and spaced from said end and having a front transverse slot at the front end thereof, and a flexible strap having one end portion extending through



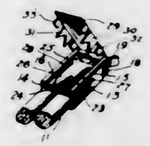
said rear slot of the plate and about the front thereof and through said front slot, said strap having its other portion extending about the rear end of the plate and through the rear slot thereof, said plate having its flanges clinched about said last-mentioned end portion of the strap.

2,663,924

BRACELET END CONNECTION

Karl Albrecht, Maplewood, N. J., assignor to Forstner Chain Corporation, a corporation of New Jersey

Application July 20, 1951, Serial No. 237,815
4 Claims. (Cl. 24—265)



1. An end connection for a bracelet, comprising a housing having side walls with inturned flanges, said housing having an open rear end, a spring member adapted to seat in said housing in contacting engagement with a bracelet end inserted into the open rear end of the housing and having parts positioned below said flanges and a portion spaced from and parallel to the flange edges to provide slots between said spring member portion and the flange edges, and a cover hinged to the forward end of the housing and having gripping teeth movable through said slots to grip a bracelet end, said cover having parts releasably snap engaging the housing.

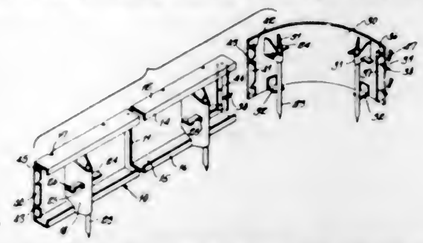
2,663,925

CONSTRUCTION FORM

Richard C. Yates, Binghamton, N. Y., assignor to Binghamton Metal Forms, Inc., Binghamton, N. Y., a corporation of New York

Application June 2, 1950, Serial No. 165,774
2 Claims. (Cl. 25—118)

1. A construction form comprising an elongated, longitudinally-flexible sheet metal web, a plurality of longitudinally spaced stake pockets secured to one face of said web adjacent the upper edge thereof, each of said stake pockets consisting of a sheet metal strap bent to V-shape to embrace a stake at the bend and having the end edges thereof secured to said web in spaced parallel relation, said end edges extending transversely across said web and being secured directly thereto by welding, and a horizontal flange member secured to said web below each of said pockets for spacing the lower edge of said web from stakes extending through said stake pockets, each of said flange members being short in the



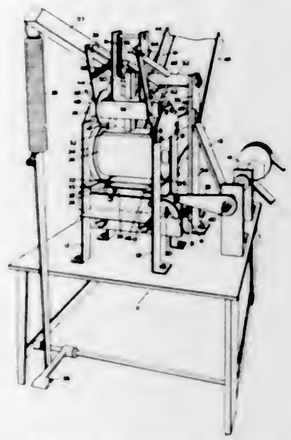
longitudinal direction of said web to permit flexing of the latter intermediate adjacent flange members.

2,663,926

STRIPPING OF BOBBINS

Henry Ewing, Spondon, near Derby, England, assignor to British Celanese Limited, a corporation of Great Britain

Application April 8, 1952, Serial No. 281,266
Claims priority, application Great Britain April 13, 1951
11 Claims. (Cl. 28—19)



1. An apparatus for cutting waste yarn from flanged bobbins said apparatus comprising a pair of flange-engaging blades for cutting yarn from a bobbin in the neighbourhood of the flanges, an intermediate blade adapted to co-operate with said flange-engaging blades and to cut yarn from said bobbin between the flanges, and means for oscillating said intermediate blade lengthwise of the bobbin and relatively to said flange-engaging blades.

2,663,927

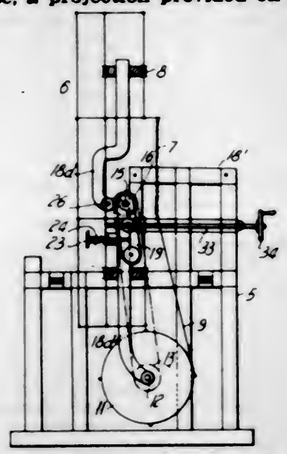
SAWING MACHINE

Hugo Nusshold, Buenos Aires, Argentina

Application September 17, 1949, Serial No. 116,271
1 Claim. (Cl. 29—74)

In a machine having a main frame, a tool holder mounted for rectilinear reciprocating movement on said main frame and adapted to be operated from a driven shaft, and a movable work supporting table for carrying the work piece into and out of engagement with the tool when applied to said holder; a drive shaft, means operatively connecting said drive shaft to said driven shaft, plate-shaped frame means journaled on and extending from said driven shaft to said

table, elastic connection means extending between said table and said plate-shaped frame means and including means for varying the angular position of said table relative to said tool holder, a cam seated on said driven shaft and operatively connected with a portion of said main frame whereby said work table may be rocked with said work piece when placed thereon, into and out of engagement with said tool, an automatic step-by-step feed mechanism for said work piece supported by said plate-shaped frame means and extending to said work table, said feed mechanism including a feed screw and link means, one of said link means being provided with a nose, a projection provided on said cam,



whereby upon rotation of said driven shaft said projection engages said nose of said one link means to thereby move another of said link means, means operatively connected to said other link means and including a pawl, gear means carried by said plate-shaped frame means and adapted to be engaged by said pawl, whereby movements from said driven shaft are transferred through said link means and said pawl to said gear means, said gear means being operatively connected to said feed screw, whereby said table is moved relative to said tool, and means for disconnecting said nose from said cam projection to thereby effect change from automatic to manual feed operation.

2,663,928

PROCESS FOR MACHINING POROUS METALS

Harry Lindsay Wheeler, Jr., La Canada, Calif., assignor to the United States of America as represented by the Secretary of the Army

Application July 13, 1950, Serial No. 173,680
3 Claims. (Cl. 29—148)



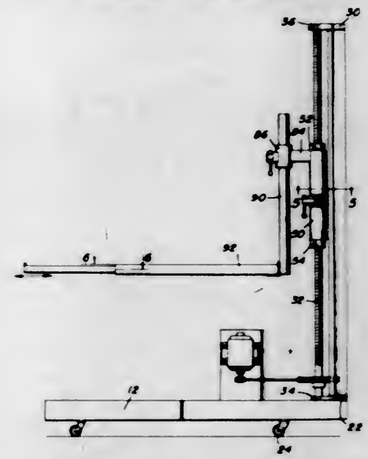
1. A method of machining a porous metal for use in sweat-cooling apparatus which comprises filling the pores of the said metal with fluid oxalic acid at a temperature between 200–260 degrees Fahrenheit, cooling the said metal whereby the said oxalic acid solidifies, machining the said metal, and removing the said oxalic acid by heating.

2,663,929

RADIATOR BENCH

Lester M. Carpenter, Spearfish, S. Dak.

Application March 27, 1952, Serial No. 278,765
7 Claims. (Cl. 29—290)



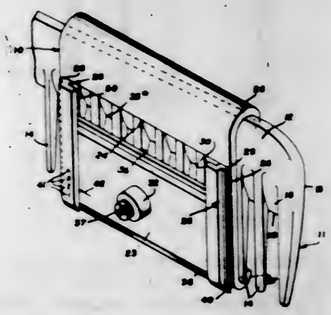
3. A radiator bench comprising a base, a pair of guide rails rigidly secured to said base, a drive screw journaled in said base, a guide bearing mounted on said guide rail, said drive screw being received in said guide bearing, a carrier housing mounted on said drive screw, a split collar mounted on said housing, a clamp securing said collar on said housing, a brace mounted on said collar, said brace having sliding contact with said guide rails, an arm rigidly mounted on said housing, a split collar rigidly mounted on said arm, a supporting shaft extending through said collar, a clamp adjustably positioning said shaft in said collar, a platform rigidly mounted on said shaft, adjusting screws between the ends of said brace and said guide rails, said adjusting screws including roller bearings contacting said guide rails.

2,663,930

HAIR TRIMMING AND SHAVING ATTACHMENT FOR COMBS

Benedetti Di Zazzo, Syracuse, N. Y.

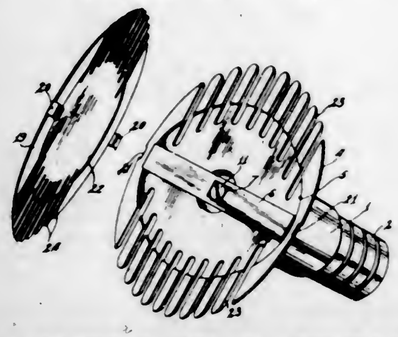
Application January 19, 1951, Serial No. 206,855
10 Claims. (Cl. 30—31)



1. An improved razor attachment for a hair comb comprising a mounting member for attachment to a hair comb, a clamping plate independent of and loosely supported by said member, and means carried entirely by said plate and adapted to clamp substantially the entire area

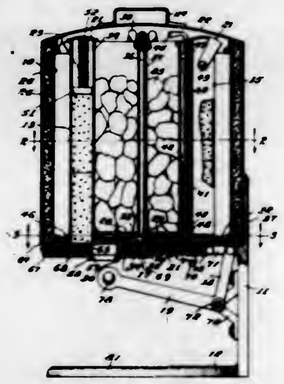
of one side of a razor blade against the teeth of the comb when the razor blade is positioned between said plate and the teeth of the comb, said means comprising a movable element adapted to engage directly against the razor blade to cause the razor blade to directly and frictionally engage the teeth of the comb.

2,663,931
ROTARY CLIPPER HEAD
Raymond Lecours, St. Laurent, Quebec, Canada
Application August 9, 1952, Serial No. 303,598
5 Claims. (Cl. 30—206)



1. In a clipper, a shear plate forming a casing having two spaced opposite inner surface portions and an elongated cutter blade movable between said surface portions and having two opposite faces in sliding shearing contact with said respective surface portions, said shear plate having slots extending thereinto to a distance to intersect the path described by the cutter blade, and means to operate said cutter blade.

2,663,932
AUTOMATIC INDIVIDUAL BUTTER SERVER
Vincent Palazzolo, St. Louis, Mo.
Application August 31, 1951, Serial No. 244,597
4 Claims. (Cl. 31—21)



1. A butter square server comprising a casing having an opening in the lower end, an inner cylinder having vertically disposed butter stick retaining channels secured to the outer surface thereof in relatively spaced relation to each other, and said inner cylinder is positioned in the casing, vertically disposed means fixed at the lower end to said casing for rotatably mounting the inner cylinder in the casing with the channels thereof positioned to selectively register with the opening through the lower end of the casing, a slider slidably mounted on the lower end of the casing and positioned to travel horizontally across the said opening in the lower end thereof, said slider having an opening therethrough positioned to receive an end of a butter stick positioned in one of said butter stick retaining channels, a knife carried by the slider and positioned at one side and at the upper edge of the opening therethrough, means mounted below said casing and connected to said slider for manually actuating the slider to a position for receiving a butter stick, resilient means mounted on said last said means for operating the slider in the opposite direction wherein the knife cuts a butter square from a butter stick extended into the slider, a follower slidably mounted on the bottom of the casing in alinement with said slider and said follower is positioned to coact with the slider to close the opening in the lower end of the casing.

2,663,933
CUSHIONING MEMBER FOR ARTIFICIAL DENTURES
Frank E. Avery, Erie, Pa.
Application February 20, 1952, Serial No. 272,599
8 Claims. (Cl. 32—2)



1. In combination with an artificial denture, comparatively soft, pliable, filled, elongated closed container members disposed on the gum contacting surface of said denture, the ends of said container members overlapping each other.

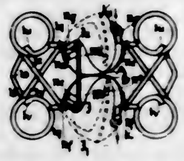
2,663,934
TOOL FOR REMOVING TOOTH ENAMEL
Alexander Leff, Brooklyn, N. Y.
Application February 4, 1953, Serial No. 335,077
2 Claims. (Cl. 32—59)



1. In a dental tool for the removal of an enamel section of a tooth, a disc-like wheel stone having a circumferential peripheral wall and two opposite depressed sides; said sides comprising central portions disposed inwardly from the respective planes of the outer edges of said peripheral wall, and generally inwardly sloping marginal portions extending from the respective outer edges of said peripheral wall to said central portions, the said peripheral wall and said marginal portions of both of said sides being coated with a granular abrasive material.

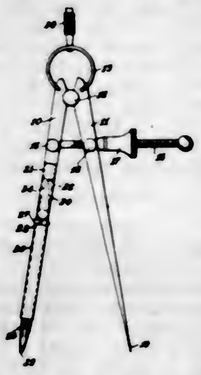
2,663,935
DENTAL MATRIX
Julius Walser, Radolfzell, Bodensee, Germany
Application February 3, 1951, Serial No. 209,233
2 Claims. (Cl. 32—63)

1. In a dental matrix comprising a pair of flexible bands having superposed side edges, each of said bands being formed at each end with a longitudinal slot not extending to the center of the length of the band to form two similarly shaped tongues above and below said slot, respectively, said bands being suitable for slidable insertion into a gap between two front teeth with a labial and a palatal tongue of each band arranged adjacent to the neck of said teeth and a labial and a palatal tongue of each band arranged adjacent to the cutting edge of said teeth, the improvement which resides in that each of said labial tongues arranged adjacent to the neck of said teeth and each of said palatal tongues is formed in its end with an eye, and each of said labial tongues arranged adjacent to the cutting edge is provided at its end with means for connection to a wire part suitable to pull said labial tongues arranged adjacent to said cutting edge apart from each other, and that said bands are connected by two resilient wire bails which extend transversely to said tongue ends arranged adjacent to the neck of said teeth, one of said bails



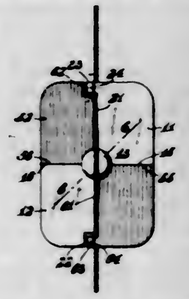
extending labially, the other palatally of said bands, each of said wire bails comprising a wire coil associated with each of said bands, a wire limb branching obliquely from each of said wire coils and continued by an upright arm extending through said eye of the adjacent tongue arranged adjacent to the neck in the associated band, and by a U-shaped wire bail having two limbs and a crosspiece, each of said two limbs extending toward the neck of one of said teeth through the eye of one of said palatal tongues arranged adjacent to the cutting edges of said teeth, and said crosspiece extending across the back of said teeth adjacent to the cutting edge thereof, each of said bands being adapted to apply itself snugly to one of said teeth at the front and back thereof and at the side facing the other of said teeth when the labial tongues arranged adjacent to the cutting edges are thus pulled apart.

2,663,936
COMBINED BALL-POINT MARKING COMPASS, DIVIDERS, AND SCRIBER
Thomas W. Lepkowski, New York, N. Y., assignor of one-half to Melvin Silon, Brooklyn, N. Y.
Application August 17, 1951, Serial No. 242,282
1 Claim. (Cl. 33—27)



In a compass-divider-scriber combination, comprising two compass leg members pivotally connected at one end thereof, the one leg member terminating in a divider point and the other leg member being shorter than the first-named leg and including a tubular element: a stop provided internally intermediate the ends of the tubular element; a hollow bead provided circumferentially of the tubular element between its outer end and said stop and having a vent to the external atmosphere; and a ballpoint writing member terminating at its end opposite the writing point in a second divider point, said ballpoint member being adapted for a slidable fit within the tubular element and for engagement with the stop alternatively by the writing end or by the divider point end of said ballpoint member to position properly the same for operation and having a vent intermediate said ends adapted for registry with the bead interior when engagement of the ball point member divider point is with said stop and to be sealed off in the reverse position by said tubular element.

2,663,937
SURVEYOR'S PLUMB LINE TARGET
Harry W. Fatkin, Westville, N. J., assignor to Warren-Knight Company, Philadelphia, Pa., a corporation of Pennsylvania.
Application July 30, 1951, Serial No. 239,225
8 Claims. (Cl. 33—74)



1. A plumb line target for surveyors' use comprising two unitary molded members of similar shape and the material of one member contrasting in color with that of the other member, each of said members having two portions each with an area diagonally disposed with respect to a similar area of the other, and said members being secured each to the other along horizontal and vertical lines.

2,663,938
CLAMPING DEVICE
Henry Stedgell, Seattle, Wash.
Application May 20, 1952, Serial No. 288,800
3 Claims. (Cl. 33—86)



1. A chalk line clamp comprising a metal strip bent to form a bottom portion, an end wall, a top portion overlying said bottom portion and spaced therefrom, and a resilient clamping leg extending upwardly and rearwardly from the outer edge of the bottom portion; said end wall having a hole therein through which one end portion of the chalk line is passed, and ears projecting from

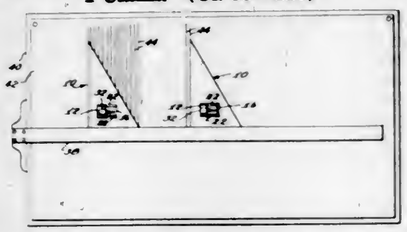
the opposite ends of the end wall providing means about which the end of the line, after passing through the hole in the end wall, may be removably secured.

2,663,939

DRAFTSMAN'S TRIANGLE HAVING A PARALLEL LINE SPACER

Leonard G. Peretti, Chicago, Ill.

Application October 19, 1951, Serial No. 252,158
1 Claim. (Cl. 33—110)



A drafting instrument comprising a draftsman's triangle having a rectangular opening formed with perpendicularly related sides respectively parallel to the perpendicularly related sides of said triangle, said opening having guide tongues extending the length thereof, along the opposite side edges of the opening; a rectangular plate mounted in the opening and having its top and bottom surfaces flush with the top and bottom surfaces of the triangle, said plate having a wide, shallow recess formed in its underside, said recess extending the length of the plate, the plate having longitudinal recesses of right angled cross section opening on one of said surfaces thereof and extending along the opposite sides of the plates; filler pieces fixedly mounted in the second-named recesses; longitudinal guide tongue members integral with the respective sides of the plate contiguous to the other surface of the plate, the filler pieces and the tongue members of the plate projecting outwardly from the plate to the same extend and being spaced apart to define guide grooves at opposite sides of the plate slidably interengaged with the guide tongues; a graduated extension member disposed within said recess, said extension member having a bottom surface flush with the bottom surface of the rectangular plate, one end of the extension member projecting beyond one end of the plate; and means engaging the plate and extension member against relative movement from selected positions to which the extension member is slidably adjusted relative to the plate, said means comprising a stem projecting upwardly from the extension member and embedded in the extension member, said plate having an elongated, closed slot through which the stem is extended, said means further including a knob threadedly engaged with the stem for tightening of said knob against the upper surface of the plate, thereby to rigidly interengage the plate and extension member in said selected positions of adjustment of the extension member, said plate and extension member constituting a spacer unit slidable from end to end of the rectangular opening of the triangle and adjustable as to its overall length, the difference between the overall length of the spacer unit and the length of the triangle opening determining the distance the triangle may be moved relative to the spacer unit, thus to permit the drawing of a series of parallel, equidistant, straight lines first by moving the triangle while the spacer unit is held stationary, and then by moving the spacer unit while the triangle is held stationary.

2,663,940

RESILIENT FOLDING RULE HINGE

Herman M. Gasstrom, Pelham, and John E. Gasstrom, Mount Vernon, N. Y., assignors to Eagle Rule Mfg. Corp., New York, N. Y.

Application September 13, 1951, Serial No. 246,468
5 Claims. (Cl. 33—119)



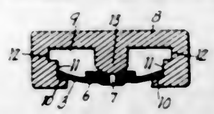
1. In a folding rule having a pair of rule sections and a pair of hinge or strike plates individually secured upon said rule sections with a male lock projection upon one plate and the other plate having a female seat portion therefor, the combination of a pivot nipple upon one plate, the other plate having a corresponding pivot hole into which the nipple projects and both rule sections having clearance holes concentric with said nipple, but the clearance hole in the rule section carrying the plate with the pivot nipple being greater in internal diameter than that of the other hole in the other rule section, a grommet extending down through the nipple and having a head upon one end within the greater hole, a coiled compression spring surrounding the grommet within the larger hole beneath the grommet head, a finishing plate mounted externally of the relatively smaller hole with the grommet extending thru said finishing plate and being riveted over the latter upon the exterior thereof, and means fixed upon the rule section with the larger hole for covering the latter and concealing the grommet head and coil spring therein.

2,663,941

MEASURING TAPE

William F. Dart, Mason, Mich., assignor to Dart Manufacturing Company, Mason, Mich., a corporation of Michigan

Application September 18, 1952, Serial No. 310,235
8 Claims. (Cl. 33—138)



8. The combination of a flexible resilient measuring tape, and a permanent magnet element having a recess on one side thereof defining inwardly facing tape seats spaced to supportingly engage opposite edge portions of the tape when it is disposed in the recess, and a lug disposed centrally relative to the seats and engaging the inner side of the tape between the seats with the tape in engagement with the seats under spring tension and thereby holding the magnet in its adjusted position on the tape.

2,663,942

INSTRUMENT FOR MEASURING INSIDE DIMENSIONS

Hans Rudolph, Kansas City, Mo.

Application November 24, 1952, Serial No. 322,212
10 Claims. (Cl. 33—164)

7. In a gauge, a body having a hollow portion; a guide member mounted on said portion of the body, said member having a pair of fingers extending into said portion of the body and provided with a slideway therebetween; a pair of L-shaped gauge elements in said slideway and movable toward and away from each other, said elements each having a feeler and an elongated leg, said legs being provided with relatively inclined, innermost faces; a reciprocable, wedge-shaped cam in said portion of the body between said legs for forcing the elements apart when the cam is moved in one direction; resilient means



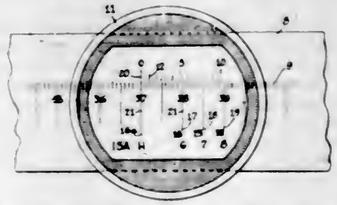
yieldably holding the legs biased toward each other with said faces of the legs engaging the cam; a stem on the cam reciprocably carried by the body; spring means for yieldably holding the cam and stem biased in the opposite direction; and a reciprocable anvil bearing against the stem for moving the stem and cam in said one direction against the action of said spring means.

2,663,943

DEVICE FOR TESTING THE TOLERANCES OF WORKPIECES

Hans Haidégger, Soleure, Switzerland, assignor to Ebauches S. A. Grenchen, Canton of Soleure, Switzerland, a corporation

Application May 1, 1950, Serial No. 159,193
Claims priority, application Switzerland May 4, 1949
8 Claims. (Cl. 33—166)



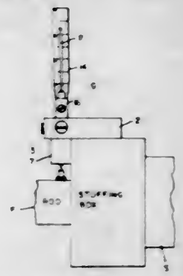
1. A gage comprising a body having a stationary feeler surface, a movable member carried by the body and providing a movable feeler surface, a pair of graticules positioned one above the other, one of the graticules fixedly mounted by the body, the other graticule carried by the movable member for movement therewith, one of the graticules including at least two marks of predetermined spacing defining the limits of a tolerance range, and the other graticule including at least one mark acting as an indicator, the relative position of the indicator mark and tolerance range marks depending upon the relative position of the movable feeler with respect to the stationary feeler, whereby an indication is given as to whether the dimension is within the tolerance range.

2,663,944

PISTON ROD STUFFING-BOX GAUGE

Walter R. Rumbaugh, Lima, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application July 28, 1950, Serial No. 176,501
5 Claims. (Cl. 33—169)



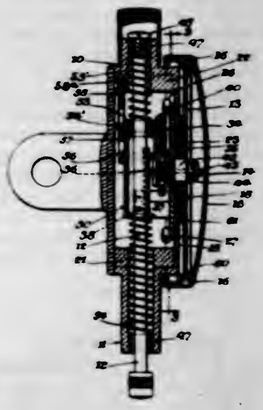
3. A piston rod stuffing-box gauge, comprising means providing an angle fitting against the periphery and against the end of a stuffing-box, including a base bar to rest against the stuffing-box periphery, a transverse bore through said bar near one end, a leg oriented at a right angle to said bar to fit against the stuffing-box end and being secured to said bar and having a bore co-axial with said longitudinal bore in the base bar, a hollow collar also coaxial with said bore, a graduated scale carried by said collar, and a pointer slidable in the leg and base bar and collar and having one end to rest against the piston rod and the other end being visible on the graduated scale.

2,663,945

SHOCKPROOF DIAL INDICATOR GAUGE

Alfred H. Emery, Poughkeepsie, N. Y., assignor to Standard Gage Company, Inc., Poughkeepsie, N. Y., a corporation of New York

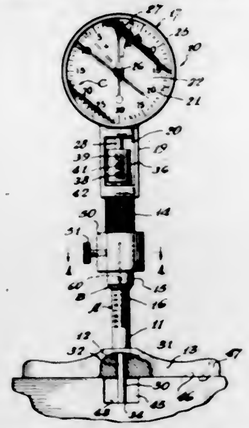
Application September 1, 1950, Serial No. 182,767
5 Claims. (Cl. 33—172)



1. In a dial indicator gage having a supporting plate with a central opening therein, and a driven pinion and driving and backlash gears mounted on the plate, an improved mounting

for the driven pinion comprising a generally cylindrical block having a reduced externally threaded extension, a shaft mounted substantially coaxially of said block and extension in a bore in said block, said extension extending through the central opening in the supporting plate, and a cap threaded on said block extension and clamping said block in position on said plate.

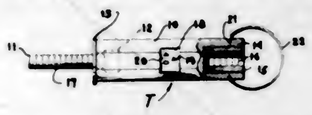
2,663,946
COMPARATOR
Bernard Frank Wojcik, Chicago, Ill.
Application June 12, 1952, Serial No. 293,115
6 Claims. (Cl. 33—172)



6. An instrument for comparing the actual dimension of a depression in a work surface with a predetermined dimension desired therefor, comprising a micrometer shaft having a conventional scale thereon, a micrometer sleeve on said shaft, said sleeve and shaft adapted to be telescoped one relative to the other with the sleeve indicating on said scale the amount of their telescoping corresponding to said predetermined dimension, an indicating device mounted on the sleeve and having an actuating stem, a gauging block having a gauging surface fixedly secured on the shaft, a push-rod extending through the sleeve, shaft and gauging block, means coupling one end of the rod to said stem, said rod having a portion thereof protruding from the gauging surface of said block, the length of the protruding portion for any relative position of the micrometer sleeve and shaft having a predetermined relationship with the indication of said indicating device, said indicating device having a hollow, cylindrical extension mounted on said sleeve with said stem disposed in said hollow extension, said push-rod being coupled to said stem in the hollow extension whereby movement of the protruding portion of the rod will serve to actuate the indicator through the stem.

2,663,947
THREAD GAUGE
Clifford J. Gilbert, Philadelphia, Pa.
Application November 22, 1949, Serial No. 128,788
2 Claims. (Cl. 33—199)

1. In a thread gauge, a metallic threaded shank having a head, an elongated handle of plastic having said head and a portion of said shank immediately adjacent thereto embedded therein, a metallic plate circumposed about said shank and engaging the adjacent end of said handle, said handle being formed with an exposed flat panel, indicia on said panel arranged for reading when said gauge is suspended in a vertical position, said



indicia indicating the diameter of said shank and the number of threads per unit length thereon, and a bail at the end of said handle remote from said shank for suspending the gauge in a vertical position.

2,663,948
DEVICE FOR MEASURING PITCH DIAMETER OF SCREWS, BOLTS, AND THE LIKE
Lawrence J. Scully, Bridgeport, Conn.
Application December 2, 1952, Serial No. 323,637
9 Claims. (Cl. 33—199)



8. A device for use with three cylindrical wires having diameters small enough to contact the inclined sides of adjacent screw threads of the externally threaded screw member but large enough to project beyond the tops of the screw threads thereof in determining the pitch diameter of an externally threaded screw member comprising a handle; means at one end of the handle to mount a pair of said wires on said handle in parallel relation to extend perpendicularly therefrom; and means adjustable along said handle for supporting the third wire, said means including a helical wire coil surrounding said handle and being of an enlarged diameter as compared to said handle and having means detachably holding the third wire in predetermined spaced relationship to the pair of parallel cylindrical wires to contact the externally threaded screw member on substantially diametrically opposite sides thereof, said helical coil yielding and enabling the third wire to be readily moved toward or away and angularly with respect to the parallel wires to assume a parallel relation with said pair of wires and a proper helix angle to lie in the thread to be measured during a gauging operation.

2,663,949
TEMPLE MEASURE
Daniel F. Huston, Burlington, Iowa
Application August 2, 1948, Serial No. 41,951
2 Claims. (Cl. 33—200)

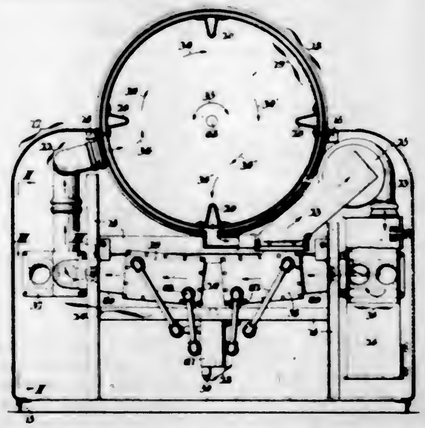
1. A rule for measuring eyeglass temple pieces comprising a single integral length of material

having a curved tubular horn element formed of one end of the length of the material to receive and retain an ear engaging curved portion of an eyeglass temple piece of the conventional ear-encircling type and a flat blade element formed of the other end of the material extending from and in continuation of the horn element, said blade element being provided with a measuring scale and said curved horn tubular element having a substantially coaxial bore formed with a closure member at an end of said horn element remote from said blade element, the scale on



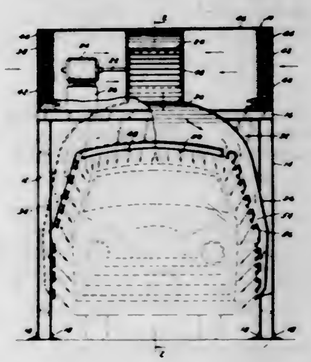
said blade element having linear indications thereon corresponding to the linear distance from a zero reference point coincident with said closure member, said curved tubular horn element having a large radius of curvature relative to that of the curved portion of eye glass temple pieces to frictionally retain the temple piece in full inserted relation within the horn element with the tip of the ear engaging portion of the temple piece abutting said closure member by deforming the curved portion of the temple piece relative to its normal curved state.

2,663,950
SOLVENT SAVER RECOVERY APPARATUS
Clarence F. Dinley, Detroit, Mich., assignor to Detrex Corporation, Detroit, Mich., a corporation of Michigan
Application January 15, 1949, Serial No. 71,177
4 Claims. (Cl. 34—51)



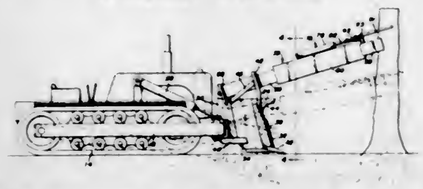
1. In apparatus for recovering solvents from material treated therewith, a treating chamber with an air inlet port at one side thereof and an air outlet port at the bottom; a perforate tumbling drum for the material rotatively supported within the chamber; a conditioning conduit extending horizontally beneath the chamber with one end thereof connected to the air inlet port of the chamber; an air blower with its pressure side connected to the opposite end of the conduit; a duct leading from the air outlet port of the chamber to the suction side of the blower; cooling means and heating means within the conduit; a gravitational separator connected to the conduit between the heating and cooling means to receive the condensate recovered from the air by the cooling and separate entrained water therefrom; and an automatically operative relief valve disposed in the conduit between the heated zone of the latter and the air inlet side of the chamber, said valve being weighted so as to open only when the pressure within the chamber exceeds a definite value such as would adversely effect the operation of the separator.

2,663,951
VEHICLE DRIER
Everett B. Kennison, Detroit, Mich.
Application June 21, 1952, Serial No. 294,857
6 Claims. (Cl. 34—233)



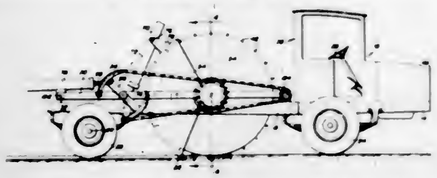
1. A drier adapted to be disposed over and adjacent the path of a vehicle which has been washed and rinsed, comprising a bridge having a top extending above the path and a pair of upright supports disposed one on each side of the path, a forced air manifold disposed adjacent the top of said bridge and having downwardly depending arms adjacent said supports, the portion of the manifold adjacent the top of the bridge having air discharge means adapted to expel air against the top of the vehicle, a plurality of vented baffles extending from said downwardly depending arms one above another and directed inwardly and downwardly so that water from the top of the vehicle will be passed progressively downward along the sides of the vehicle and off the bottom thereof as air is expelled from said vented baffles, the upper portions of said arms slanting inwardly so that air from all the vented baffles strike the adjacent vehicle surface at substantially the same angle, and a source of forced air coupled with said air discharge means and said vented baffles, said vented baffles near the top and bottom of the said downwardly depending manifold arms having smaller openings than the vented baffles near the central portion of said downwardly depending manifold arms to provide an efficient control and distribution of the air.

2,663,952
TREE UPROOTING ATTACHMENT FOR BULLDOZERS
William A. Winget, Lima, Ohio
Application January 15, 1951, Serial No. 205,971
3 Claims. (Cl. 37—2)



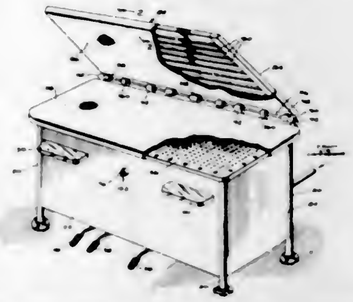
3. A bulldozer attachment comprising a clamp adapted to be fastened to a part of a bulldozer, a root cutter secured to the clamp, an extensible boom fastened to the clamp and including forward and rear members, a clamp bar fixed to the forward member, a pair of jaw members pivotally secured to the ends of the clamp bar, a fluid motor carried by the boom and connecting the forward and rear members for extending the boom, and a second fluid motor carried by the boom in parallel with the first fluid motor and connected to said jaw members for maintaining their gripping hold on a tree whose roots are severed by said cutter, said root cutter and said jaw members acting in unison to remove the tree gripped by said jaw members.

2,663,953
EARTH MOVING MACHINE
Fredrick D. Cahill, Randolph, Ariz.
Application December 4, 1950, Serial No. 198,972
2 Claims. (Cl. 37—9)



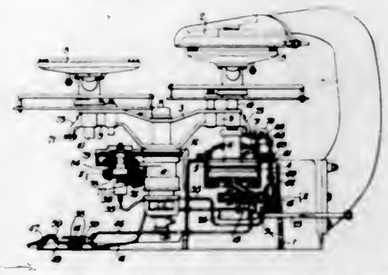
1. In an earth moving machine, a wheel supported frame, an auxiliary frame pivoted to the wheel supported frame for vertical swinging movement, means for adjusting and maintaining said frames in adjusted angular relation, a rotary bowl mounted on the auxiliary frame for rotation about an axis transverse to the fore and aft axes of the wheel supported frame, said bowl having an opening at the top thereof, a scraper blade spaced below the bowl and spaced rearwardly of said transverse axis, an arcuate hood extending upwardly from the scraper blade in spaced symmetrical relation to the bowl, said blade and hood being carried by the auxiliary frame, an earth elevating reel rotatably mounted on the auxiliary frame to rotate about the transverse axis and running between the hood and the bowl, and fluid pressure actuated means connecting the auxiliary frame and the bowl for rotating the bowl to dump the contents thereof through said opening, comprising said bowl having an axle rigidly affixed thereto, a toothed sprocket fixed on said axle, an elongated lever pivoted intermediate its ends to the auxiliary frame, said lever having its opposite ends terminating in arcuate portions, a drive chain entrained over the sprocket and rigidly secured to the arcuate portions, and a hydraulic assembly pivotally connected to the lever and the auxiliary frame.

2,663,954
STEAM PRESSING MACHINE
William Goldman, Brooklyn, N. Y.
Application July 3, 1948, Serial No. 36,832
34 Claims. (Cl. 38—15)



1. A steam pressing machine, comprising a buck, a companion presser head movable toward and away from said buck for the pressing operation, means including a valve for admitting steam into said buck, power-operated means for controlling the movement of said presser head toward and away from the buck and for controlling the operation of said valve in timed relation to the movements of said presser head, and manually operable means for controlling the operation of said power-operated means, said power-operated means including a plurality of motors, one of said motors being operatively connected to said presser head for moving the latter, means for controlling the operation of said one motor, another of said motors being operatively connected to said valve, and means operable by said latter motor for actuating the controlling means of said one motor in timed relation with the operation of said valve by said latter motor, said manually operable means being operatively connected to said latter motor for controlling the operation thereof.

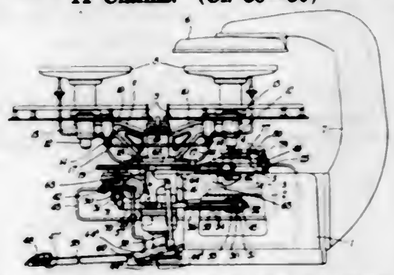
2,663,955
GARMENT AND LIKE PRESS
John Simpson, Jr., Luton, England, assignor to John Simpson and John Simpson, Jr., Luton, England
Application April 17, 1950, Serial No. 156,241
Claims priority, application Great Britain April 19, 1949
10 Claims. (Cl. 38—22)



1. A garment press comprising a rotatable carrier with two pressing tables, a pressing ram, a fluid-pressure motor for turning the carrier to bring each table in turn into operative relation with the ram, a fluid-pressure motor for actuating the ram, a fluid-pressure supply system, a selector valve connected to the said system and the said motors and arranged directly to control

the supply of fluid pressure to both the carrier-turning motor and the ram-actuating motor, an operator-controlled device operatively connected to the said valve for moving said valve to one position for initiating a cycle of operation of the press, a device positioned for operation automatically by the carrier in dependence upon its position and operatively connected to the said valve for moving said valve to another position for causing completion of the said cycle, a carrier-turning gearing connected to the carrier-turning motor, a clutch arranged between the said gearing and the carrier, and a fluid-pressure clutch-actuating motor connected to the selector valve, whereby the communication of fluid pressure to the said clutch-actuating motor is also controlled by the selector valve.

2,663,956
GARMENT PRESS WITH A SINGLE MANUAL CONTROL
John Simpson, Jr., and George O'Dell, Luton, England; said O'Dell assignor to John Simpson, Luton, England
Application February 11, 1948, Serial No. 7,628
11 Claims. (Cl. 38—30)



1. A garment press of the kind set forth, comprising in combination a press head, a horizontally rotatable carrier having two tables which can be brought in turn by rotation of the carrier into operative relation with the press head, fluid-pressure driven pressing means engageable sequentially with the tables, when in the said operative relation, for bringing them into pressing engagement with the press head, fluid-pressure operated means in driving connection with the carrier for turning it always in the same direction, a source of fluid pressure, fluid-pressure conduits extending between the source and the pressing means, and the source and the carrier turning means, a first valve in the conduit between the fluid-pressure source and the pressing means for controlling admission and discharge of pressure fluid to and from the pressing means, means for loading the valve towards the admission position for producing pressing engagement of the pressing means, operator-controlled valve-operating means connected to the valve for moving it to the discharge position for withdrawal of the pressing means from pressing engagement, means associated with the carrier-turning means and the said valve for holding the latter in the discharge position as long as neither of the tables is in the operative relation with the press head, a second valve in the conduit between the fluid-pressure source and the carrier-turning means for controlling admission of fluid pressure to the said carrier-turning means, and valve-operating means movable with the pressing means and engageable with the second valve for moving it to the admission position to admit pressure fluid to the carrier-turning means for producing rotation of the carrier when the pressing means is in the withdrawn position.

2,663,957
IRONING TABLE TOP AND METHOD OF MAKING THE SAME
Harvey E. Hortman, Jr., Southampton, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 12, 1950, Serial No. 155,436
6 Claims. (Cl. 38—137)



1. An ironing table top tapered at its forward portion and having a rear edge, said top comprising a sheet metal member having a planar top surface and having a plurality of spaced longitudinal closed V-ribs reinforcing said member and defining longitudinal sections thereof contiguous to one another, and a down-turned skirt on said member about the entire edge periphery thereof perpendicular to said planar top surface, said skirt along the rear edge of said member comprising sections which are rear extensions of said longitudinal sections, each of said skirt sections being secured to the adjacent skirt section at the rear end of one of the ribs by a tab extending along one of the vertical edges of one section and depressed inwardly to lie behind the adjacent section, thereby to provide continuity of the skirt along the rear edge of said member, said skirt along the tapered forward edges of said member comprising sections which are front extensions of said longitudinal sections, each of said last-mentioned skirt sections being secured to the adjacent skirt section at the front end of one of the ribs by a tab extending along one of the vertical edges of one section and depressed inwardly to lie behind the adjacent section, thereby to provide continuity of the skirt along the tapered forward edges of said member.

2,663,958
PRESSING EQUIPMENT FOR PILE FABRICS
Dorothy M. Keast, Philadelphia, Pa.
Application June 6, 1950, Serial No. 166,371
3 Claims. (Cl. 38—141)

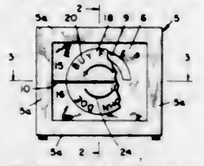


1. In pressing equipment for pile fabrics, a working unit having a working surface made up of a cut-pile animal fibre fabric, and a layer of steam-impervious material therebeneath.

2,663,959
SIGN DEVICE
Harry W. Fuerst, Los Angeles, Calif., assignor of one-half to C. Bland Jamison and one-half to Miller Allen, Los Angeles, Calif.
Application August 6, 1949, Serial No. 108,899
2 Claims. (Cl. 40—34)

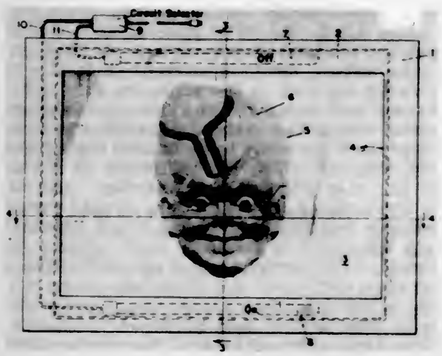
1. In a sign device having a pair of juxtaposed viewing compartments, a wheel mounted to rotate partly in the first and partly in the second of said compartments, with its front surface visible from the exterior of said compartments, sign indicia disposed circumferentially of the front surface of said wheel, said indicia being

formed of material capable of fluorescing in light of a given wave length, and means for exposing



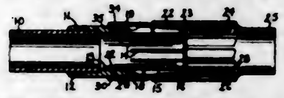
said indicia to light of said wave length in only one of said compartments.

2,663,960
ILLUMINATED ILLUSION DEVICE
Enrico Cerracchio, Brooklyn, N. Y., assignor of one-half to Vincent J. Scordley, Jack Scordamaglia, also known as Jack Scordley, and Diane Ascher, all of New York, N. Y.
Application June 24, 1949, Serial No. 101,206
2 Claims. (Cl. 40—137)



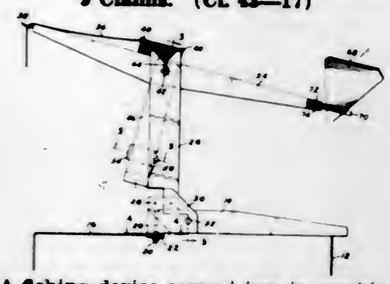
2. In a display device, a cabinet having an upright wall, an element to be illuminated located in said wall and extending rearwardly of it, a first lamp positioned to throw light upon said element from a position below said element, a second lamp positioned to throw light upon said element from a position above said element, both of said lamps being located forwardly of said wall, means for alternately lighting said lamps, means for shielding said lamps from a front view, said element having a decorated portion in concavity and in negative full relief extending rearwardly from said wall, the forward surface of said concavity depicting by contour and tinting an object, whereby, to the observer, the object delicted by the decorated concave portion, as illuminated, appears to show in convexity in full relief varying contours and shadings depending on the movement of the observer and the illumination, the element being characterized by surfaces which are respectively concave and convex, and which, when viewed from the front, serve to provide the illusion of being respectively convex and concave, the object having the same proportions of width, height and depth of concavity substantially exactly those of an object having corresponding measurements of the same width and height and measure of a forward convex projection of the object, the illusion of which is depicted, and said element providing the further illusion that as the observer moves from right to left, he appears to see an increasingly larger portion of the right side of the object depicted, and conversely when moving from left to right regardless as to which lamp is illuminated.

2,663,961
CHOKE FOR GUN BARRELS
Ezekiel F. White, West Hartford, Conn.; Madge Burnam White and Hartford National Bank and Trust Company, executors of said Ezekiel F. White, deceased
Application July 7, 1950, Serial No. 172,456
10 Claims. (Cl. 42—79)



10. Choke mechanism for firearms comprising a constrictable split muzzle extension member, a sleeve member rotatably connected to said extension member, cooperating means on said extension and sleeve members to constrict the former upon rotation of the latter, means responsive to discharge of the firearm for rotating said sleeve member, and cooperating means on said extension and sleeve members to limit rotation of the sleeve member, said last-mentioned means comprising a plurality of spaced means on one of said members and a stop element on the other member movable longitudinally of said members and spring pressed into engagement with said spaced means.

2,663,962
TIP-UP DEVICE FOR FISHING THROUGH ICE
Raymond D. King, Roseville, Mich.
Application April 4, 1949, Serial No. 85,333
9 Claims. (Cl. 43—17)



1. A fishing device comprising, in combination, an upright member, a teetering bar pivotally supported intermediate its ends on the upper end of the upright member for rocking movement about a horizontal axis, means adjacent to one end of the bar for suspending a fish line therefrom, a relatively stiff vane attached adjacent to the opposite end of the bar and inclined to the vertical plane, said vane being responsive to the wind to teeter the bar about its rocking axis, a weighted counterbalancing arm connected to the bar adjacent to the rocking axis thereof and depending downwardly from the bar, means providing adjustment of the arm to different angles with respect to the bar to vary the counterbalancing action thereof, and means providing adjustment of the weight carried by the arm to different positions either closer to or further away from the bar to vary the teetering action of the bar in different wind conditions.

2,663,963
UNIVERSAL LEADER CONNECTION FOR LURES
John K. Russell, North Hollywood, Calif.
Application April 8, 1950, Serial No. 154,783
10 Claims. (Cl. 43—42.02)

1. A lure body having a mounting wall and leader connecting means, a mounting secured to said wall, said mounting having portions thereof constituting limiting stops, turnable means adapted to rotate about an axis transverse of the longitudinal axis of the mounting and adapted to engage said stops and constituting linking means between said mounting and said leader connecting means, and resilient means associated with



said mounting for normally maintaining the turnable means in engagement with one stop whereby slow movement of the leader connecting means will permit the turnable means to be held in one limited position by one stop, and a faster movement of the leader connecting means will permit the turnable means to be held in another limited position by the other stop.

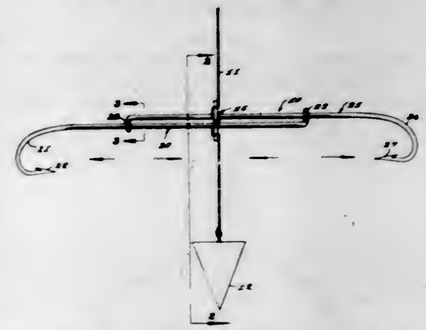
2,663,964
ARTIFICIAL FISHING BAIT
William F. Martin, Amarillo, Tex., assignor of one-fourth to W. D. Burger, Amarillo, Tex., one-fourth to W. E. Warner, Hooker, Okla., and one-fourth to E. L. Morton, Stinnett, Tex.
Application October 13, 1947, Serial No. 779,550
1 Claim. (Cl. 43—42.03)

In an artificial bait resembling a live shrimp, a body comprising a plurality of segments, a flat resilient member secured to the bottom of each of the segments, a hook carried by one segment, a leader secured to one segment and passing through one of the other segments, and an elongated strip comprising artificial feelers mounted between the flat resilient member and the segments.

2,663,965
FISHING PLUG
Louis Rosen, Daytona Beach, Fla.
Application December 8, 1950, Serial No. 199,832
2 Claims. (Cl. 43—42.09)

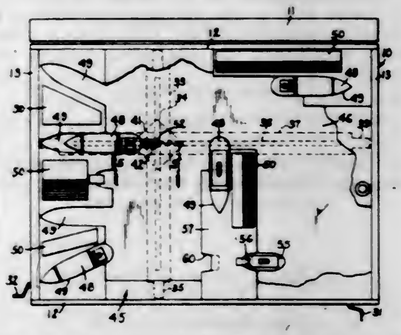
1. An artificial fishing lure or plug comprising an elongated lure body formed of a head section and a tail section, fastening means detachably connecting said lure body sections in end-to-end relationship, said head section being formed of a non-buoyant material and said tail section being formed of a buoyant material, said head section comprising an elongated metal sleeve, lead filling a substantial part of the hollow interior of said sleeve for weighting the head section, said head section including an upper portion and a lower portion, and an elongated bar of a relatively light weight metal disposed in the upper portion of the sleeve for lightening the weight of the upper part of the head portion relatively to the lower part thereof.

2,663,966
ADJUSTABLE FISHHOOK STRUCTURE
Alfred C. DeMello, New Bedford, Mass.
Application September 19, 1950, Serial No. 185,547
1 Claim. (Cl. 43—42.74)



In a fishhook structure for support from a fishing line, a supporting plate provided with means for the attachment of an intermediate portion of a fishing line thereto, a first shank disposed transversely of and slidably supported in said supporting plate, one end of said shank being bent to form a first depending hook and the other end of said shank being bent to form a first transversely disposed eyelet, and a second shank disposed in superimposed spaced parallel relation with respect to said first shank and slidably supported in said supporting plate and first eyelet, one end of said second shank being bent to form a second depending hook and the other end of said second shank being bent to form a second transversely extending eyelet, said first shank being slidably supported in said second eyelet, and said first and second depending hooks being so disposed as to face each other.

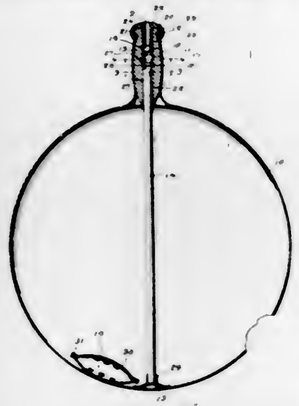
2,663,967
MAGNETIC GAME BOARD
Waddy T. Mathis, Hamden, Conn.
Application May 4, 1951, Serial No. 224,475
3 Claims. (Cl. 46—45)



1. In an amusement device, means providing a supporting surface, a game piece movably supported thereon and having a permanent bar magnet at its lower portion, a second bar magnet disposed below said supporting surface in a substantially horizontal position to direction-

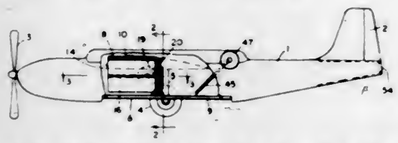
ally attract and move said game piece, actuating means for said second magnet comprising a pair of crossed substantially horizontal elongated members each having a slot extending lengthwise thereof, means for mounting said second-named magnet upon said members at the intersection of said slots for rotational movement about a vertical axis, said magnet being supported eccentrically with respect to said axis, and means for moving each of said slotted members in a direction transverse to its length.

2,663,968
BALLOON HANDLE AND WHISTLE
Hugh A. Longino, O'Donnell, Tex.
Application June 27, 1951, Serial No. 233,861
2 Claims. (Cl. 46—52)



1. In a toy balloon the combination which comprises a substantially hollow elastic body having a neck extended from one side, a handle having an arcuate tapering outer surface positioned in the neck of the body, said handle having a longitudinally disposed passage extended therethrough with a valve seat in said passage, a ball positioned in the passage and adapted to coact with the valve seat to prevent air passing outwardly through the handle, a removable stem extended from the handle to the opposite side of the hollow elastic body, a suction cup on the extended end of the stem and positioned to engage the inner surface of the said body, said handle having grooves therein positioned adjacent the periphery of the stem, and a disc having spaced side walls with openings therethrough providing a whistling element positioned in the said hollow elastic body.

2,663,969
TOY BOMBER
Jack V. Kellogg, Ashtabula, Ohio
Application February 20, 1950, Serial No. 145,125
8 Claims. (Cl. 46—76)



5. In a toy airplane having a hollow fuselage, a cylindrical casing mounted therein on transverse pivots, locking means releasably operative to hold said casing in a horizontal position, a rotor rotatably co-axially mounted within said casing and having means thereon for accommodating a plurality of bombs, and rotative means manually operable to turn said rotor, said fuselage being provided with an opening in its under portion dimensioned to permit passage of said casing when the latter is pivoted to a vertical position, said casing being provided with a slot in the under portion thereof dimensioned to permit passage of but a single bomb at one time upon rotation of said rotor, and said casing having an open end to permit release of all bombs simultaneously upon said casing being pivoted to a vertical position.

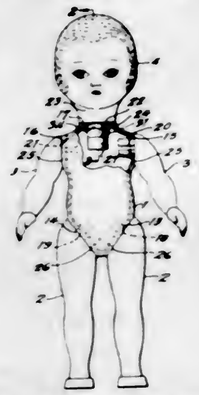
2,663,970
AMBULATORY ANIMAL TOY
William A. Brodrib, Hartford, Conn.
Application April 28, 1950, Serial No. 158,817
3 Claims. (Cl. 46—123)



1. In an ambulatory animal toy, the combination of a skeleton comprising a single torsionally resilient longitudinal central spine and two downwardly extending front legs of equal lengths and transversely spaced throughout their said lengths and including means for fixedly connecting their upper portions with each other and with the said torsionally resilient central spine and two downwardly extending rear legs of equal lengths and transversely spaced throughout their said lengths and including means for fixedly connecting their upper portions with each other and with the said torsionally resilient central spine, the said skeleton having resiliency therein enabling each of the legs to independently move rearwardly or forwardly out of an initial relative position of repose which resiliency tends to return each leg to its said position of repose, and four feet secured respectively to the bottoms of the said legs and each foot being relatively heavy and including a floor engaging portion having frictional characteristics whereby it serves to provide substantial frictional resistance to sliding movement of the foot along the floor, the said floor engaging portions of all of the feet initially being respectively spaced forwardly to slight substantially equal extents from vertical transverse planes through the upper portions of the corresponding legs, whereby force applied to the forward portion of the spine in a forwardly and upwardly inclined direction serves not only to move the spine forwardly but also serves during spine movement to cause the several front and rear legs and feet to independently and successively snap relatively forwardly after the said feet have been individually held momentarily stationary by reason of their frictional engagement with the floor.

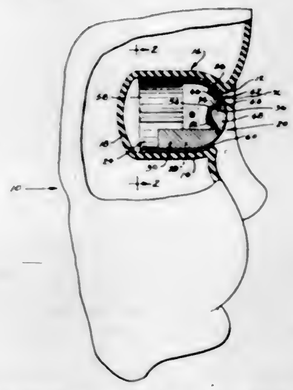
2,663,971
DOLL CONSTRUCTION
Domenick Ippolito, Glendale, Calif.
Application August 5, 1949, Serial No. 108,701
5 Claims. (Cl. 46—161)

1. In a doll construction, a wide-diameter, non-tilting bearing joint for a non-removable appendage pivotally mounted on the body portion of the doll, comprising: a hollow torso having parallel inner and outer circular plane surfaces with a coaxial circular opening therethru of roughly half the diameter of the outer surface, an appendage having a circular plane surface of the same diameter as the outer torso plane surface, two spaced members extending at right angles to the plane surface of the appendage, integral therewith, and together forming a generally cylindrical split post, said post having a shank journal snugly fitting the opening and of a length equal to the thickness of the hollow torso



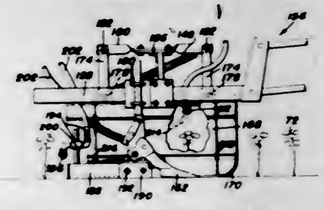
between the parallel surfaces, each of the members having a shoulder to form a latch portion to engage the inside surface of the torso, the split post being of a material relatively stiff but yielding so that the two members at their free ends may flex and approach each other to permit the latch portions to be forced thru the opening where they will then return to normal latching position inside the torso, thus forming a socket joint which will allow the head, arm, or leg appendage to turn freely in its wide diameter bearing in the torso, without danger of being pulled from its socket by ordinary rough handling.

2,663,972
MOVABLE DOLL'S EYE
Joseph L. Lee, Bergen County, N. J., assignor, by mesne assignments, to Margon Corporation, Bayonne, N. J., a corporation of New Jersey
Application January 31, 1951, Serial No. 208,788
4 Claims. (Cl. 46—169)



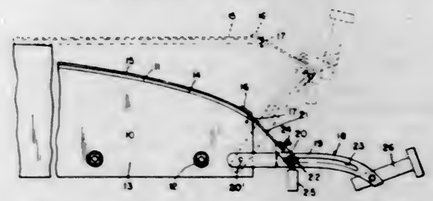
1. An independent separately operable movable doll's eye, said eye comprising an eyeball and a weight both housed within an eyeshell having an eye opening, said eyeshell having a diametrical dimension only slightly larger than that of the eyeball but sufficient to provide clearance for rotation of the eyeball within the eyeshell, said eyeball and weight having structural characteristics resulting from having been die-cast from a single integrally formed body of metal, said eyeball including a forward portion having a generally hemispherical shape, said weight comprising a solid segment occupying a substantial portion of the lower half of the eyeball and having a projection which extends rearwardly of the rear edge of the eyeball, whereby said integral metal weight has substantial mass for dependable operation of the eyeball although devoid of a weight arm and while confining the weight generally within the diametrical ambit of the eyeball so that both the eyeball and its integral weight may be housed within the aforesaid eyeshell.

2,663,973
APPARATUS FOR CULTIVATING COTTON AND CONTROLLING NOXIOUS WEEDS
Godfrey Llewellyn White, Osceola, Ark.
Application October 13, 1950, Serial No. 189,987
12 Claims. (Cl. 47—1)



1. In combination with a tractor having a cultivator frame at its rear end and a means for adjustably raising and lowering said frame, a means for controlling weeds in cotton comprising plows secured to said frame, cotton plant shielding means disposed between said plows, means for suspending said shielding means from said frame, means carried by the rearward portions of said shielding means for leveling a predetermined area on both sides of the cotton row, and adjustable spray nozzles for delivering a weed killer to the cotton row, said spray nozzles being supported by said levelling means and being directed toward said cotton row rearwardly of said shielding means to deliver said weed killer along the cotton row within said predetermined levelled area.

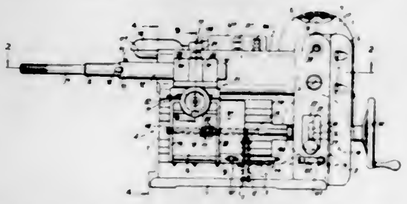
2,663,974
APPARATUS FOR BENDING GLASS SHEETS
Robert W. Thomson, Riverside, Ontario, Canada, assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application July 23, 1951, Serial No. 238,107
13 Claims. (Cl. 49—67)



1. Apparatus for bending sheets of heat softenable material comprising a form having

side members spaced laterally from one another a distance less than the width of a sheet of material to be bent and having rigid convexedly curved supporting surfaces respectively engageable with the underside of the sheet adjacent its side edges, a pair of flexible strips conformable to the curved contour of the supporting surfaces and respectively spaced above the supporting surfaces for engagement with the top surface of the sheet in the region of the supporting surfaces, and means acting on the flexible strips tending to bend the latter to the contour of said supporting surfaces.

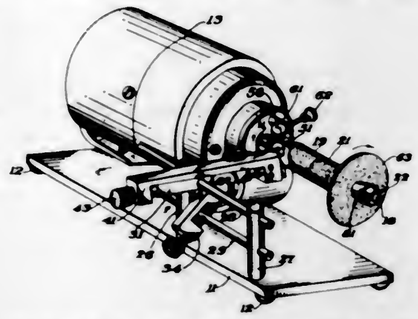
2,663,975
BRAKE DRUM LATHE
Harry B. Barrett, St. Louis, Mo.
Application August 28, 1950, Serial No. 181,784
3 Claims. (Cl. 51—37)



3. A lathe for grinding brake drums and the like comprising a housing, a work-holding spindle operatively journaled in and projecting at one end from the housing, a carriage slidably mounted on the housing for movement in outwardly spaced parallel relation to the spindle, a tool mounted on the carriage, a feed screw journaled in the housing and threadedly engaged with the carriage for feeding a tool to the work, said feed screw being provided adjacent one end with an unthreaded portion along which the carriage will become disengaged, an electric motor drivingly engaged with the spindle, a boss formed on the carriage and having a horizontal aperture, the axis of which is disposed in spaced parallel relation to the spindle, a rod mounted for slidable movement in the boss, a set screw threadedly mounted in the boss for optionally bearing against said rod to hold the rod in any desired position of lengthwise adjustment within the limits of its slidable movement whereby the rod, when the set screw is tightened, will move to and fro with the carriage, a control switch electrically connected with the motor and having a switch-actuating element interposed in the path of the rod, and an inclined plate rigidly mounted at one end on the housing and having a rockable portion extending over the switch actuating element so as to be interposed between the switch actuating element and the rod whereby to stop the motor when the rod engages the plate at a selected point in the path of movement of the carriage in one direction.

2,663,976
DEVICE FOR SHARPENING HYPODERMIC NEEDLES AND OTHER INSTRUMENTS
George W. Jacoby, Jr., Wooster, Ohio
Application November 30, 1949, Serial No. 130,304
1 Claim. (Cl. 51—92)

A device for sharpening hypodermic needles comprising in combination a rotatable cylindrical abrasive element, power means for rotating said abrasive element, a needle support, means on the support for releasably clamping a needle to engage the periphery of the abrasive element to form a face on the needle shaft, mechanism for positioning the clamping means and a needle relative to the abrasive element, a mounting, and a gauge threaded in said mounting for adjustment in a path normal to a radial plane through



the centerline of the abrasive element whereby the extreme end of the needle may be positioned along the periphery of said abrasive element and the position of the clamping means established before the needle is engaged with the abrasive element.

2,663,977
SYSTEM FOR CONTROLLING THE POSITION OF A SHAFT IN ITS BEARINGS
Paul Gerard, Paris, and Henri Séranne, Villeurbanne, France, assignors to Gendron Freres, S. A., Villeurbanne, France, a company of France
Application July 8, 1950, Serial No. 172,667
Claims priority, application France January 24, 1950
19 Claims. (Cl. 51—100)

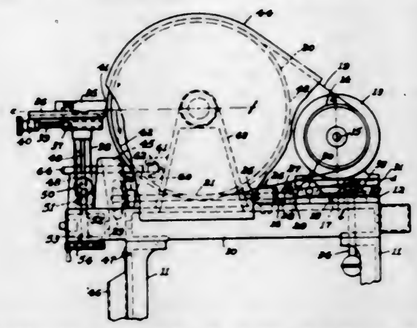


1. In combination, a rotatable shaft, at least two bearing structures to journal said shaft, one at least of said bearing structures being of the type in which the shaft is floatably supported in the stationary bearing surface, the same comprising a plurality of circumferentially spaced pressure zones separated by outlet grooves and at least two of which zones are diametrically opposed, means to feed separately pressure fluid to each of said zones and control means adapted to act differentially upon the feeding of two diametrically opposed zones of at least one of said bearing structures, so as to shift at will said shaft in respect to the longitudinal common axis of said bearing structures by a displacement in a plane containing said common axis and the diametral direction passing through the centers of said two feeding zones.

2,663,978
LAPPER FOR CARBIDE TIPPED TOOLS
Karl L. Lindmark, Rockford, Ill., assignor, by mesne assignments, to Fenlind Engineering Co., Loves Park, Ill., a corporation of Illinois
Application November 3, 1952, Serial No. 318,300
17 Claims. (Cl. 51—135)

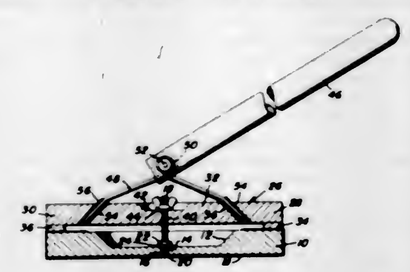
1. In combination, an endless abrasive belt of suitable width, a suitably rotatably supported wheel of appreciable radius having a rim with a wide flat smooth unyielding periphery on which

said belt operates under tension, means for driving said belt and wheel, a work support having a surface in a plane parallel to a radius of said wheel on which a tool bit the tip of which is to be lapped by contact with said abrasive belt is



adapted to be carried, a pillar on top of which said support is carried for adjustment in a direction parallel to a tangent to said wheel, a guide for said pillar, and means for adjusting said pillar in said guide.

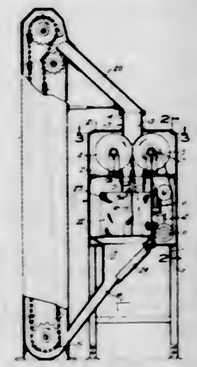
2,663,979
SANDING BLOCK
Gerardo Sierchio, Pequannock, N. J.
Application March 24, 1952, Serial No. 278,146
5 Claims. (Cl. 51—187)



1. A sanding block comprising an elongated rigid base member having upper and lower faces, said base member also having a central recess in its upper face, a substantially H-shaped hand grip overlying the base member and including a pair of parallel end portions of a length substantially equal to the width of the base member and a cross portion joining intermediate parts of said parallel end portions and extending immediately above the recess, whereby a user's hand disposed about the cross portion will enter the recess, and a combined pivot and fastener extending centrally through the base member and the cross portion.

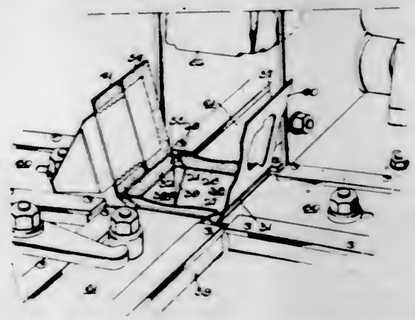
2,663,980
POLISHING METHOD AND MATERIAL
John F. Harper, Portland, Conn.
Application October 14, 1949, Serial No. 121,357
10 Claims. (Cl. 51—282)

4. The method of polishing a surface of an article which comprises throwing abrasive particles having minute weight at the surface of the article at a velocity at which the individual particles would tend to be deflected by and to bounce from said surface and simultaneously throwing admixed flexible planate sheet members which have many times greater weight and have a high top surface area to side surface area ratio and



which cling to and slide over said surface while pressing said particles against the surface.

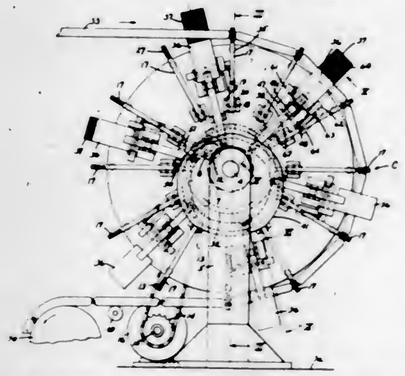
2,663,981
PAPER CONTAINER
Roy S. Sanford, Oakville, Conn.
Application July 31, 1950, Serial No. 176,860
9 Claims. (Cl. 53—5)



1. The method of forming, coating, filling, and sealing the end of a tubular container of sheet material, which comprises preparing a blank of sheet material having a plurality of side wall panels provided with foldable end closing flaps at the bottom end thereof, flange forming panels at the upper ends thereof, a top closure flap integral with one flange forming panel provided with ported dispensing and filling portions, and a second top closure flap integral with another flange forming panel having a portion provided with a tear strip and another portion hingedly secured thereto, folding said blank and adhesively securing adjacent wall panels together to form a tube of polygonal cross section, folding and adhesively securing said foldable end flaps together in overlapping relationship to form a bottom closure, folding upper portions of said wall panels inwardly and said flange forming panels outwardly to form a substantially continuous flange about the upper end of the container, folding and adhesively securing the first named top closure flap to said flange and substantially simultaneously folding and adhesively securing the first named portion of the second top closure flap to the first named top closure flap with said tear strip covering the ported dispensing portion of the first named top closure flap and with the second named portion of the second top closure flap in

open position, introducing a coating material into the container through the ported filling portion of the first named top closure flap and draining the coating material from the container therethrough, setting the coating material, filling the container with a desired product through said ported filling portion, and closing and adhesively securing the second named portion of the second top flap to the first named top flap to close and seal the ported filling portion thereof.

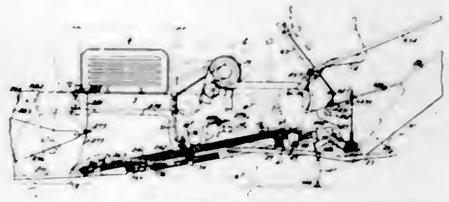
2,663,982
APPARATUS FOR MAKING LINKED PRODUCTS
John D. Conti, Elkins Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application June 25, 1951, Serial No. 233,435
20 Claims. (Cl. 53—156)



1. An apparatus for forming a stuffed product into a series of integrally connected links comprising a shaft, a rotatable member mounted on the shaft, a plurality of cooperating stuffed product clamping means mounted on the member and extending outwardly from the periphery thereof, said clamping means being spaced at intervals around the member, means adjacent the member for moving the clamping means into and out of engagement with the stuffed product to form it into linked sections, a plurality of stuffed-product twisting means mounted on the member for rotating alternate sections of the stuffed product, each of said twisting means being spaced between an adjacent pair of clamping means, said twisting means comprising a pair of opposed elements one on each side of the member, racks on the elements, a pinion, means for urging the racks to engage the pinion, and means adjacent the member for actuating the racks and pinion, and means for rotating the member.

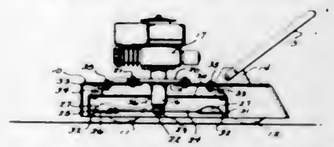
2,663,983
CORN HARVESTER
Rector C. Fergason, Gadsden, Ala., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Continuation of application Serial No. 447,025, June 15, 1942. This application August 18, 1949, Serial No. 111,057
35 Claims. (Cl. 56—18)

1. In combination, a narrow mobile frame having a power source thereon and having a wide rear axle structure mounting a pair of laterally spaced traction wheels, a corn harvester comprising an elongated supporting frame detachably connected to said mobile frame to extend therealong and under said axle structure in the space between said wheels, said supporting frame presenting laterally spaced forward portions disposed below and adjacent opposite sides of said mobile frame, a pair of cooperative harvesting rolls mounted on each forward portion of said supporting frame and extending forwardly therealong from laterally spaced points adjacent to and below said axle structure, a power transmitting mechanism enclosed in an elongated housing mounted on said supporting frame to extend crosswise thereof in adjacent relation to the rear ends of said harvesting rolls, harvested material conveying means carried by said supporting frame in rearward continuing relation with respect to the material supporting surfaces afforded by the rear end portions of each pair of said harvesting rolls, said conveying means extending beneath said axle structure,



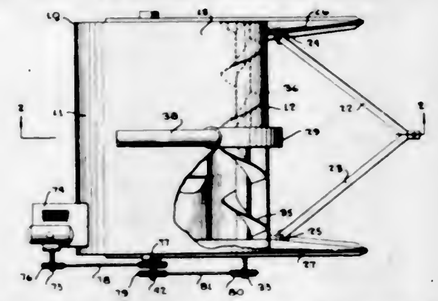
over said housing and rearwardly beyond the latter, and a harvested material receiving means mounted on the rear of said supporting frame in partially underlying relation with respect to the rear end of said conveying means, said supporting frame, rolls, conveyer means, power transmitting mechanism and harvested material receiving means providing a unitary base structure with the portions thereof in advance of said axle structure having an overall width and height such that when said unitary structure is detached from said mobile frame and rests on the ground therebeneath, said mobile frame may be propelled forwardly over and away from said unitary structure, and said power transmitting mechanism having operative driving connections with said rolls and conveyers and including a power input shaft having a forwardly projecting exposed portion detachably connected with a power take-off portion of said power source.

2,663,984
LEAF PULVERIZER FOR ROTARY TYPE LAWN MOWERS
Kenneth R. Clark, Milwaukee, Wis.
Application April 30, 1952, Serial No. 285,135
10 Claims. (Cl. 56—25.4)



1. An attachment for use with a mower comprising a wheeled housing and a prime mover mounted thereon and provided with a cutting blade rotatable within the housing, said attachment comprising an inverted cup-shaped casing having brackets supporting it within the housing in a blade-enclosing position, said casing having an annular foraminous top wall spaced below the top of the housing to provide clearance to permit said blade to project comminuted material through said top wall.

2,663,985
FORAGE HARVESTER
James L. Hinson, Winfield, Kans.
Application December 29, 1950, Serial No. 203,518
3 Claims. (Cl. 56—61)



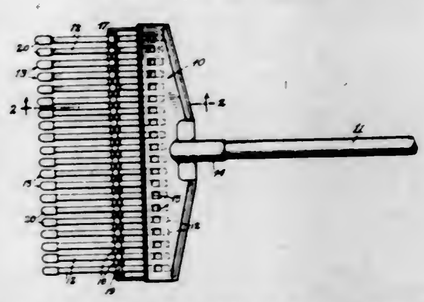
1. A forage harvesting machine comprising a housing of substantially semicylindrical shape adapted to be moved sidewise and having a front opening extending longitudinally from one end to the other end thereof and end walls closing the ends thereof, a screen plate of partly cylindrical shape having a longitudinal opening and spaced apart apertures therein disposed in said housing, said screen plate having a diameter less than the diameter of said housing and being eccentrically disposed in said housing with its edge at one side of the longitudinal opening therein joined to said housing along the bottom edge of the front opening in the latter to provide between said housing and said screen plate a space increasing in thickness from the bottom to the top edge of the front opening in said housing and opening between the top edge of said front opening and the adjacent edge of the opening in said screen plate, a rotatable beater journaled in said housing substantially coaxially of said screen plate for severing forage into short length particles and forcing severed forage particles through the apertures in said screen plate into said space, receptacle means carried by said housing adjacent the open end of said space to receive forage particles from the latter, and blower means disposed in said receptacle means for drawing forage particles from said space into said receptacle means and ejecting the forage particles from said receptacle means.

2,663,986
BEET TOPPING MECHANISM
Lyle Gransden, Edenville, Mich.
Application August 13, 1951, Serial No. 241,523
6 Claims. (Cl. 56—121.4)



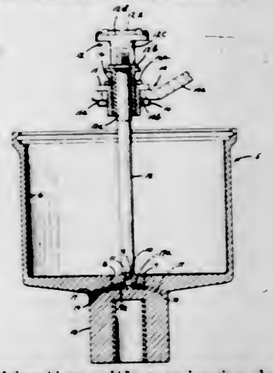
1. In a beet topping mechanism, a power shaft, a basin-shaped cutting disk on said power shaft having a peripheral cutting edge, and a series of tangentially disposed cutting elements provided on the convex surface of said cutting disk to remove the foliage from the beets as the cutting disk is moved thereover, said cutting members projecting from the cutting disk and extending in the direction of rotation of said cutting disk.

2,663,987
RAKE
Herman Biener, Brooklyn, N. Y.
Application January 22, 1952, Serial No. 267,636
1 Claim. (Cl. 56—400.17)



A rake having a plurality of shanks, teeth for the outer ends of said shanks, there being one of said teeth for each of said shanks, and means securing each of said teeth to its shank, said means comprising an attaching shank member, said shank member being composed of a top portion and a bottom portion, the outer end of each shank having a projection thereon engaging the bottom portion of its shank member and the top portion of the shank member being secured to the bottom portion, and each of the teeth being formed on the bottom portion of its respective shank member and projecting downwardly therefrom at an angle with respect thereto.

2,663,988
BOTTOM DRAINING SPINNING BUCKET
Hugh D. Haley, Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application March 8, 1951, Serial No. 214,449
11 Claims. (Cl. 57—76)



9. In combination with a spinning bucket having a recess accurately centered within the interior surface of the bucket concentrically about its axis of rotation, a support for a funnel guide, means for adjusting the support in directions substantially normal as well as parallel to said axis, said support having a surface for aligning the guide with respect to the bottom of the bucket, and means simultaneously engaging said support surface and a surface within the recess to indicate the relative positions of the support and recess, said bucket having passageways extending radially from the bottom of the recess to an outer surface of the bucket for draining the recess.

2,663,989

COATED ARTICLES AND TEXTILES AND EMULSIONS FOR PRODUCING THEM

Carl Schlatter, Wilmington, Del., and John B. Eisen, Springfield, and George D. Jefferson, Kennett Square, Pa.

No Drawing. Application March 19, 1949, Serial No. 82,482
18 Claims. (Cl. 57—153)

12. As an article of manufacture a flexible base material carrying ¼ to 25% by weight of a coating composition thereon comprising 2 to 10 parts by weight of a water-dispersible polymeric colloid, 1 to 15 parts by weight of a polyethylene glycol ether of a compound selected from the group consisting of castor oil and hydrogenated castor oil, the ether containing from about 80 to 200 ethoxy groups per molecule, 1 to 5 parts by weight of an alkaline buffer, and about 0.5 to 15 parts by weight of a lubricant comprising at least 0.5 part by weight of a waxy partial ester of an anhydro-hexahydric alcohol and a fatty acid of at least 16 carbon atoms.

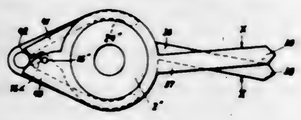
15. The article of claim 12 in which the base is a yarn having its otherwise lively twist reduced or set by the composition.

2,663,990

INDEX REGULATOR SET

Hans Kocher, Cortebert, Bern, Switzerland, assignor to Cortebert Watch Co., Cortebert, Switzerland, a corporation of Switzerland

Original application November 4, 1949, Serial No. 125,608, now Patent No. 2,637,970, dated May 12, 1953. Divided and this application January 2, 1953, Serial No. 329,373
2 Claims. (Cl. 58—113)



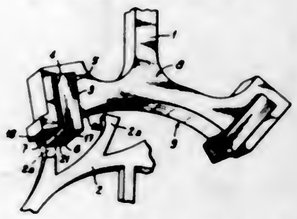
1. A regulator for adjusting the hair spring of the balance of timepieces, comprising a circular support, a regulator lever means having two parts, each of said parts having an annular portion rotatably mounted on said support, each of said parts having a tail portion extending from said annular portion in the direction of a secant of the annular portion, said tail portions being arranged symmetrically to a diameter of said support and overlying and crossing each other, each of said parts having a lug portion protruding from the annular portion of the part substantially oppositely to the tail portion of the part, a first jaw fixed to one of said lug portions, a member having two resilient prongs straddling said support, the junction of said prongs being substantially diametrically opposed to said tail portions, a second jaw fixed to said member at said junction, said prongs individually having a paw at their ends, said paws slidably engaging said support at points beyond the center of said support with respect to the location of said junction relatively to the support and pulling said junction toward the center of said support and said second jaw against said first jaw, and a protrusion extending from said member at the junction of said prongs and substantially parallel to the axis of said support, said lug portions individually having a surface abutting against said protrusion and pushing said member away from said support against the action of said prongs upon manipulation of said lever means.

2,663,991

ANCHOR ESCAPEMENT FOR TIMEPIECES

Marc Huguenin, Geneva, Switzerland, assignor to Montres Rolex S. A., Geneva, Switzerland, a firm of Switzerland

Application June 14, 1952, Serial No. 293,502
Claims priority, application Switzerland August 13, 1951
2 Claims. (Cl. 58—121)



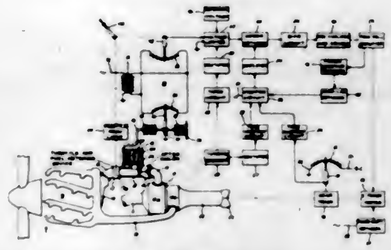
1. In a time-piece, the provision of an anchor escapement comprising an anchor having two parallel outer surfaces and a transverse surface and provided with pallet recesses opening into said transverse surface, a pallet fitted in each of said recesses and provided with outer surfaces that project beyond the corresponding outer surfaces of the anchor, said pallet including a terminal operative section projecting beyond the transverse surface of the anchor, said pallet defining between its lateral and terminal surfaces engaging the recess surfaces and each outer surface of the anchor, dihedral angles at the utmost equal to 90°, forming interconnected capillary paths adapted to receive a provision of oil, the terminal section of the pallet forming with the transverse surface of the anchor further dihedral angles defining capillary paths connecting the first mentioned paths corresponding to the two outer surfaces of the anchor, and a toothed escape wheel cooperating with the anchor pallets.

2,663,992

AIRCRAFT POWER PLANT CONTROL APPARATUS

Bruce A. Wells, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 30, 1949, Serial No. 130,097
6 Claims. (Cl. 60—35.6)



1. In a power plant having an internal combustion engine for providing the primary source of power, an exhaust gas driven turbosupercharger, and a variable nozzle for controlling the flow of exhaust gases to provide a supplementary source of power in the form of a jet thrust, a control system comprising a throttle valve in the air supply duct connecting said turbosupercharger and the intake manifold of said engine, a control lever, means for maintaining a preselected throttle entrance pressure in said air supply duct comprising means responsive to changes in turbosupercharger pressure for producing an electrical error signal proportional to the difference between said thottle entrance pressure and a preselected pressure corresponding to the position of said control lever, means responsive to said error signal for positioning said nozzle to maintain said preselected pressure, electrical stabilizing means connected to said error signal responsive means for generating a transient anticipatory signal, network means connected to receive and add said anticipatory signal in opposition to said error signal, and throttle regulator means controlled by said control lever for positioning said throttle valve responsively to the engine manifold pressure, said throttle regulator means providing higher pressure values than said throttle entrance pressure maintaining means for a selected range of control lever positions in the normal operating range of said control system whereby said throttle valve is maintained fully open during normal operation.

2,663,993

DEICING APPARATUS

James K. Mosser, Springfield, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 10, 1945, Serial No. 621,545
7 Claims. (Cl. 60—35.6)



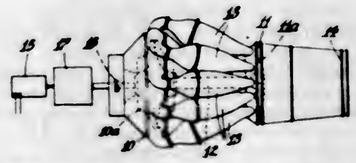
5. In an aircraft power plant comprising a gas turbine engine having a compressor, combustion equipment in which air from the compressor is heated, and a turbine driven by the heated air, a casing enclosing the power plant, and an air intake duct leading from the forward end of said casing to the intake of the compressor; means for substantially uniformly heating the air entering the air intake duct comprising header means in the casing at the air intake duct, a grid-like structure of hollow tubes having inlets thereto in the header means and outlets therefrom distributed over the grid.

2,663,994

ENGINE STARTER SYSTEM

Adrian Albert Lombard, Allestree, Derby, and Donald Hamilton Mattinson, Derby, England, assignors to Rolls-Royce Limited, Derby, England, a British company

Application October 11, 1952, Serial No. 314,346
Claims priority, application Great Britain October 26, 1951
10 Claims. (Cl. 60—39.14)



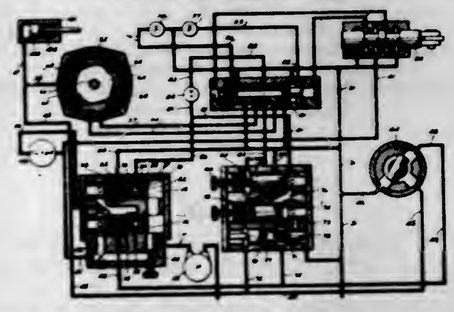
1. A starter system for an aircraft gas-turbine engine comprising a starter motor and a gear mechanism connected between the starter motor and the engine whereby during starting the motor drives a turbine/compressor rotor assembly of the engine, which gear mechanism comprises a first gear train giving a first ratio of motor rotational speed to rotor assembly rotational speed suitable for starting under normal ground conditions and a second gear train giving a second ratio less than the first ratio and suitable for starting the engine in flight, and means for selecting the desired gear train.

2,663,995

ROTARY FLUID MOTOR TRANSMISSION SYSTEM

Ralph E. Price, Highfield, Md., and Harold E. Balsiger, Waynesboro, Pa., assignors to Landis Tool Company, Waynesboro, Pa.

Application March 30, 1948, Serial No. 18,944
6 Claims. (Cl. 60—53)



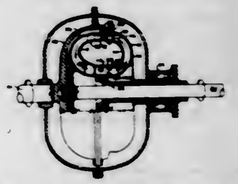
5. In a hydraulic system, a source of fluid under pressure comprising a pump, a motor having a housing, a rotor rotatably mounted therein, peripherally spaced blades slidably mounted in one of said members for movement in a substantially radial direction, connections between said pump and said blades for supplying fluid for urging them into engagement with the other of said members, connection between said pump and said rotor for directing fluid under pressure for effecting rotation thereof, a pressure operated valve in said first mentioned connection operable in response to a predetermined pressure on said blades for permitting the passage of fluid through said second connection for effecting said rotation of said rotor.

2,663,996

ROTARY HYDRAULIC TORQUE CONVERTER

Edward A. Stalker, Bay City, Mich.

Application March 26, 1949, Serial No. 83,711
3 Claims. (Cl. 60—54)



1. In combination in a fluid transmission, a radial flow pump wheel, a radial flow turbine wheel, means rotatably mounting said wheels for rotation about a common axis to define a fluid flow circuit through said pump wheel and said turbine wheel, said pump wheel having a plurality of peripherally spaced exit blades having their trailing edges substantially radial, said turbine wheel having a plurality of peripherally spaced inlet blades spaced a substantial distance downstream from the trailing edges of said

pump blades, the leading edges of said turbine blades being substantially radial, said blades being within said circuit for the exchange of energy between said blades and fluid, the portion of said flow circuit between the trailing edges of said pump exit blades and the leading edges of said turbine wheel inlet blades extending along said axis to direct said fluid along the direction thereof and expanding in cross sectional area along the direction of said fluid flow, and the portion of said circuit along said turbine blades declining substantially in radial depth and cross sectional area to a locality a substantial distance downstream from the leading edges of said turbine blades to accelerate said flow of fluid therealong.

2,663,997

DRAINAGE TUBE

Otto W. Schmidt, Kansas City, Kans., and William C. Martin, Wooster, Ohio

Application September 22, 1947, Serial No. 775,486
4 Claims. (Cl. 61—11)



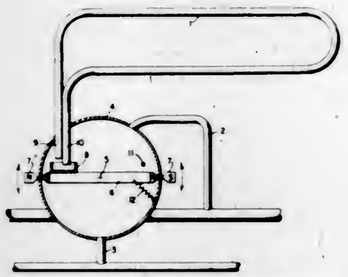
1. A drainage tube comprising a sheet metal channel having outwardly and downwardly extending flanges at its upper edges, and a cover member all portions on a transverse line of which slope downwardly from the center line thereof and having depending side portions secured in spaced relation to said flanges whereby openings to said channel are formed between said cover member and said flanges, said openings sloping upwardly to enter said channel.

2,663,998

CONTROL VALVE FOR FLUID SYSTEMS

Woldemar G. Nolcken, Headington, Oxford, England, assignor to Pressed Steel Company Limited, Cowley, Oxford, England, a British company

Application August 10, 1951, Serial No. 241,192
Claims priority, application Great Britain March 2, 1951
15 Claims. (Cl. 62—2)



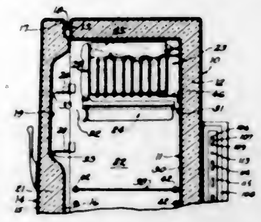
1. A control valve for controlling the circulation of a condensible vapour and its liquid condensate through a condenser, comprising an hermetically sealed housing, condenser inlet and outlet conduit means projecting into said housing, an open vessel within said housing into which vessel the open end of the condenser inlet and outlet means depends and magnetic means disposed exteriorly of the housing to adjust the position of said vessel with respect to the open end of said means.

2,663,999

HOUSEHOLD REFRIGERATOR

Carl F. Alsing, Evansville, Ind., assignor to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota

Application February 18, 1952, Serial No. 272,056
13 Claims. (Cl. 62—117.35)



2. A refrigerator cabinet comprising a sheet metal shell and a sheet metal liner carried thereby and spaced therefrom, and provided with insulation between the said shell and liner, the shell and liner extending substantially from the bottom of the cabinet to the top and being faced about a door opening by breaker strips, a substantially U-shaped evaporator located in the upper part of said cabinet and carried by the top of the liner and the rear wall of the liner, said evaporator having a transversely extending shelf spaced from its upper edges sufficiently to receive ice cube trays, molded plastic sliding guides carried by the side walls of said liner below said evaporator and a molded plastic insulating drawer slidably mounted in said guides below said evaporator but permitting air circulation past said drawer at the front and at the back of said drawer, a motor compressor carried by said cabinet and a condenser carried by the rear of said cabinet, said motor compressor including a mineral oil sump with a charge of mineral oil adapted to absorb refrigerant in varying amounts, depending upon the temperature of the oil, and a charge of refrigerant in the system which is sufficient to supply the shelf with refrigerant during every operation of the motor compressor, the refrigerant going first to the shelf coils and thereafter to coils on the sides and bottom of said evaporator which cool the remainder of the cabinet and the absorption of refrigerant in the mineral oil increasing as the ambient temperature surrounding said cabinet drops so that as the ambient temperature decreases, the coils on the exterior of said evaporator receive a diminishing amount of refrigerant, and the food storage space exterior to said evaporator in said cabinet is maintained at a constantly suitable above-freezing temperature.

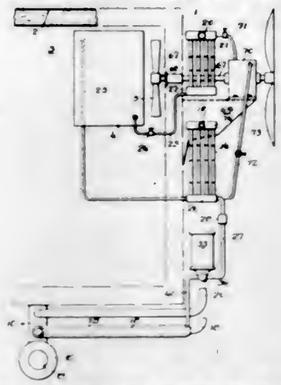
2,664,000

REFRIGERATING APPARATUS FOR TRANSPORTATION DEVICES

Frank W. Smith, Chicago, Ill.

Application January 18, 1951, Serial No. 206,625
9 Claims. (Cl. 62—119)

1. Refrigerating apparatus of the absorption type for cooling closed transportation devices both when in motion and when stationary, comprising, an evaporator within the device, a fan rotatably mounted in the device for blowing air over the evaporator, an air propeller rotatably mounted in the open air outside of the closed portion of the device in front thereof, means connecting the propeller with the fan for rotating the latter from the former by air currents created by movement of the transportation device, an absorber mounted on the outside of the device in the open air in front thereof and behind said propeller to receive cooling air therefrom, and



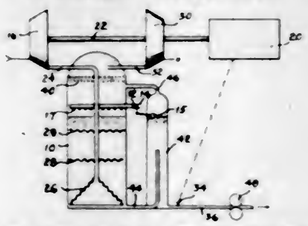
means for rotating the propeller and fan when the device is stationary, said last mentioned means being inoperative to rotate the propeller when the device is in motion.

2,664,001

AIR CYCLE WATER COOLER

Walter R. Brisken, Dayton, Ohio, and Franz J. Neugebauer, Schenectady, N. Y.

Application September 8, 1951, Serial No. 245,686
13 Claims. (Cl. 62—150)



1. An air cycle refrigerating system including a reservoir containing water, a turbine, a conduit extending from the turbine to a point near the bottom of the reservoir, a compressor used in removing the air from the reservoir above the water, a prime mover cooperating with the turbine in driving the compressor, means in the reservoir for breaking up the air bubbles bubbling up through the water from the conduit connecting the turbine to a point near the bottom of the reservoir, the turbine reducing the pressure of the air thereby cooling the air so that cooled and expanded air is delivered to the bottom of the reservoir, the air bubbling up through the water in the reservoir absorbing heat from the water in the reservoir and means for utilizing the water in the reservoir.

2,664,002

COUPLING FOR DRINK MIXERS

Oscar M. Anderson, New Britain, Conn., assignor to Landers, Frary and Clark, New Britain, Conn., a corporation of Connecticut

Application June 28, 1950, Serial No. 170,899
2 Claims. (Cl. 64—6)

1. A coupling comprising a pair of connectors constructed and arranged for attachment respectively to a pair of substantially aligned shafts, means forming a universal joint between said connectors including a bifurcated end piece on one connector and a tongue on the second connector received in the said bifurcated end piece and a transverse pivot pin carried by the bifurcated end piece and extending through the tongue, the ends of said pin terminating within the confines of said bifurcated end piece and said tongue being provided with a transverse opening of greater diameter than the pin to permit limited universal movement of one con-



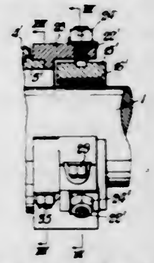
nector relative to the other, a pair of opposed shoulders on the connectors at opposite ends of the universal joint and a thick cylindrical stabilizing sleeve of resilient rubber-like material seated between said shoulders and snugly embracing the tongue and bifurcated end piece and extending about the ends of the pin for damping movement of the connectors relative to each other and for retaining the connectors in interconnected relation.

2,664,003

POWER TRANSMISSION GEARING FOR THE RUNNING AXLE OF VEHICLES

Leslie Reginald Nixon, New Eltham, London, England, assignor to J. Stone & Company Limited, London, England, a company of Great Britain

Application July 25, 1949, Serial No. 106,640
Claims priority, application Great Britain July 26, 1948
1 Claim. (Cl. 64—11)



Power-transmission gearing arrangement for a running axle of a vehicle comprising, in combination with the said gearing and axle, an annular part which embraces the axle and is in drive-transmitting engagement with the gearing, and jacking devices for centering the said annular part in relation to the axle, comprising jacking screws disposed radially of the axle and engaged in the annular part, segmental pads engaged by the screws and resilient material lining the said pads and bearing upon the axle.

2,664,004

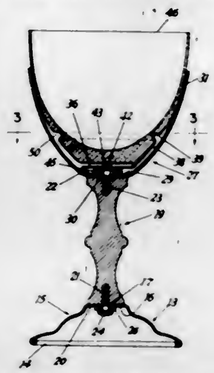
COMBINATION HOLDER AND RECEPTACLE SUCH AS COCKTAIL GLASS AND THE LIKE ARTICLE

Sol Forman, Leonard Ramer, and Arthur Mund, New York, N. Y., assignors to Forman Family, Inc., Brooklyn, N. Y., a corporation of New York

Application October 5, 1950, Serial No. 188,496
2 Claims. (Cl. 65—13)

1. An article of the character described comprising a base, a stem on the base, said stem

being formed at its upper end with a central screw threaded opening, a housing having a flat bottom wall contacting the upper end of the base and formed with a central opening, said housing having an upwardly and outwardly curved annular wall extending from said flat wall, a receptacle within said housing formed with an external annular groove, a spring clip within said housing having a bottom annular portion disposed between said receptacle and said flat wall and formed with a central opening, said spring clip having fingers provided with portions en-



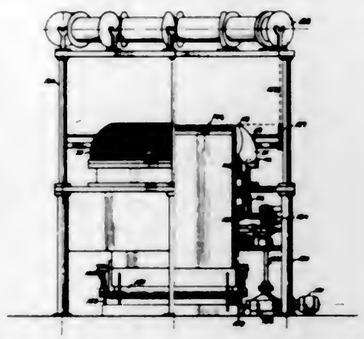
gaging within said annular groove, and a screw having a head contacting the central opening of said bottom portion of said spring clip at said opening and being provided with a shank passing through the opening in the flat wall of the housing and screwed within the threaded opening at the upper end of the stem, said fingers being spaced from said housing and holding said receptacle snugly into said housing, said receptacle touching said housing only adjacent the upper end of the latter and being spaced from the bottom of the spring clip.

2,664,005
CULINARY UTENSIL HOLDER
Frank E. Kosinski, Detroit, Mich.
Application August 24, 1949, Serial No. 112,119
1 Claim. (Cl. 65—65)



A device for holding culinary utensils on a supporting structure so as to prevent the material on the utensils from contacting the structure and which device is also adapted to provide a means for breaking and holding eggs, said device being constructed from a single blank of bendable and easily cleanable material and comprising an elongated flat wall having relatively low upstanding joined flanges at its side edges and one of its end edges, an inverted V-shaped member extending transversely of the wall and having inner and outer leg portions and an apex element joining said leg portions and disposed well above the flanges of said flat wall, the inner leg portion of said member being integrally formed with the other end edge of said wall, an upwardly inclined plate disposed transversely of the wall and having a lower upwardly facing concavo-convexed flange integrally formed with the outer leg portion of said member, and said plate also having a downwardly facing convexo-concave upper flange at its upper portion, the apex element of said member lying in a horizontal plane with said upper flange and having a series of spaced notches therein for receiving the handles of utensils that rest upon the upper edge of said plate.

2,664,006
CIRCULAR KNITTING MACHINE
Erik Frits Lund, Herning, Denmark
Application July 16, 1947, Serial No. 761,174
Claims priority, application Denmark July 28, 1945
2 Claims. (Cl. 66—81)

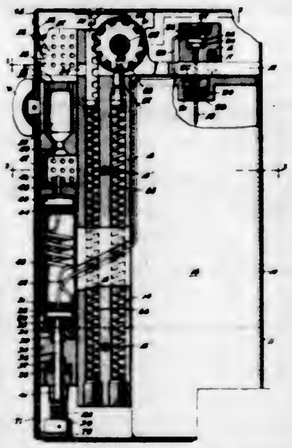


1. A circular knitting machine having a needle cylinder, a circular series of needles carried by said needle cylinder, said needles having foot portions, pivotally mounted thread carriers arranged in a circular series concentric with said needle cylinder and surrounding said series of needles, one carrier for each needle, a travelling guide ring which reciprocates in a direction parallel to the axis of said cylinder, said guide ring being provided with a recess in which said foot portions of said needles are adapted to enter in order that they may be simultaneously actuated for reciprocation therewith and comprising a face which bears against corresponding faces on said thread carriers, the thread carrying parts of said carriers being actuated to move away from said needles by the movement of said guide ring in one direction, and means for pressing said thread carrying parts of said carriers toward said needles during movement of said guide ring in the opposite direction to form stitches, said series of needles and carriers rotating stepwise always in the same direction in relation to each other.

2,664,007
LIGHTER
Robert E. Peterson, New York, N. Y., assignor to Repeter Products, Inc., New York, N. Y., a corporation of New York
Application September 26, 1949, Serial No. 117,843
6 Claims. (Cl. 67—7.1)

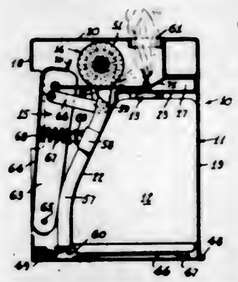
1. A portable gas lighter comprising a casing, a combustion chamber in said casing, a cover for said combustion chamber movable to and from open and closed positions, means urging said cover to open position, latch means for retaining said cover in closed position, a supply means for gaseous fuel in said casing, means to supply air to said combustion chamber for mixture with the fuel, connecting means including valve means for connecting said fuel supply means and said combustion chamber, ignition means adjacent said combustion chamber, means extending from said cover for operating said ignition means upon movement of said cover to open position and

manually operative means movable to initially open said valve to effect an air-fuel mixture and



further movable to thereafter release said latch means and effect operation of said ignition means to ignite said air-fuel mixture.

2,664,008
LIGHTER
Edmund G. Gessmann, Woodside, N. Y., assignor to L. Batlin & Son, Inc., New York, N. Y., a corporation of New York
Application August 14, 1950, Serial No. 179,200
3 Claims. (Cl. 67—7.1)



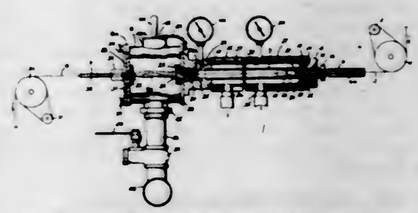
1. A pyrophoric lighter comprising a casing formed with a downwardly opening compartment defined by one end wall of the casing and by a partition in the casing having a top portion spaced downwardly from the top wall of the casing and a side portion spaced from the other end wall of the casing, a tank for containing a compressed gas fitting removably into said compartment, an opening formed in said top portion of the partition, valve means on the top of said tank including an actuating plunger extending upwardly through said opening for linear reciprocation to effect opening and closing of said valve means, said other end wall of the casing having an opening, a finger member pivoted on said casing and projecting outwardly through said opening in the other end wall, and a valve operating link pivotally connected to said finger member and extending slidably over said top portion of the partition for linear movement in a plane at right angles to the direction of reciprocation of said valve actuating plunger and including a portion engaging slidably from above with said valve plunger, said portion of the valve operating link being inclined to effect depression of said plunger when said link is displaced linearly in a selected direction by rocking of the finger member.

2,664,009
FLUID TREATING APPARATUS FOR STRANDS
Paul D. Emerson, Media, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Philadelphia, Pa., a corporation of Delaware
Application February 15, 1951, Serial No. 211,014
10 Claims. (Cl. 68—5)



1. An apparatus for treating continuously moving strands with fluid comprising a fluid treating chamber having two end-walls therein, a strand-entrance orifice in one end-wall of the chamber, a member in the chamber mounted movably toward and away from the strand-entrance orifice, an opening in the member for passage of the strand therethrough, an opening in the other end-wall of the chamber, means slidably mounted in the said other end-wall opening and integrally attached to the member for moving the member in the chamber, said means having an opening therein for passage of the strand therethrough, means for continuously passing a strand through the chamber, and means for supplying fluid to the chamber, said fluid supplying means being positioned so as to allow the fluid to force the member in abutting relationship with the second-mentioned end-wall of the chamber.

2,664,010
FLUID TREATING APPARATUS FOR STRANDS
Paul D. Emerson, Media, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Philadelphia, Pa., a corporation of Delaware
Application May 2, 1951, Serial No. 224,204
16 Claims. (Cl. 68—5)



1. An apparatus for treating continuously moving strands with fluid comprising an elongated cylindrical straight tube, means for continuously passing a strand through the tube, a fluid chamber surrounding the tube, a cap mounted on one end of the tube and chamber, said cap having an annular groove on the inner face thereof, said tube opening into the annular groove, a nozzle threadedly mounted in the cap and extending into the tube opening, a strand entrance orifice in the nozzle, said nozzle being movable toward and away from the tube, a fluid-expansion chamber connected to the other end of the tube, a Venturi tube positioned in alignment with the tube and extending into the expansion chamber, said fluid expansion chamber having a member slidably mounted in an opening

in the end-wall thereof, said member comprising a flange-like portion inside the expansion chamber abutting against the end-wall thereof in normal operating position and an elongated portion extending outwardly through the opening in the end-wall of the expansion chamber, said flange-like portion and elongated portion having openings therein for the passage of the strand therethrough, the opening in the flange-like portion flaring out in a direction toward the Venturi tube, said member being movable toward and away from the Venturi tube, conduit means connected to the expansion chamber for removing fluid therefrom, conduit means for supplying fluid to the fluid chamber, and means adjacent the strand-entrance orifice for directing the fluid from the fluid chamber to the elongated tube through the annular groove on the inner face of the cap.

2,664,011

LIQUID DENSITY MEASURING EQUIPMENT

Julius C. Boonshaft, Pensauken, N. J., assignor to Precision Thermometer and Instrument Company, a corporation of Pennsylvania

Application February 18, 1949, Serial No. 77,203
13 Claims. (Cl. 73—33)



1. In density measuring equipment, a liquid-enclosing chamber, a plummet therein, and a plurality of elongated flexible weight means connected between the chamber and the plummet and formed and arranged to variably coact therewith in a manner to influence the effective buoyancy thereof as it rises or falls in the direction of its vertical axis, said weight means being so disposed that its mass acts coaxially on said plummet at a fixed vertical axis in said chamber throughout the normal range of vertical movement thereof.

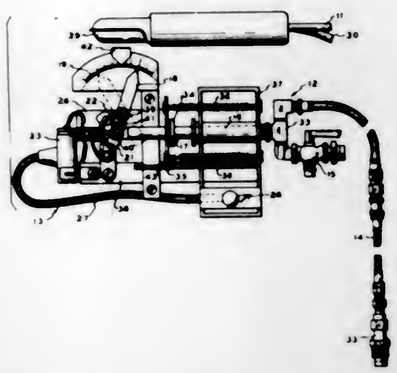
2,664,012

IGNITION TIMING DEVICE

William P. Newsome, Sedley, Va.

Application June 13, 1950, Serial No. 167,780
2 Claims. (Cl. 73—116)

1. An ignition timing device for internal combustion engines, comprising: a conduit connected to the spark plug aperture in a cylinder of an engine, a fitting including a relief valve connected to the other end of said conduit, a cylinder connected to said conduit through said fitting, a piston sliding in said cylinder, spring means biasing said piston into said cylinder, a pivotally-mounted pointer attached to said piston and actuated thereby, a scale over which said pointer passes, a normally-closed switch positioned so as to be opened by said piston in its extreme position out of said cylinder, a condenser attached across said switch, a transformer whose primary is connected in series with said switch, a battery connected in series with said switch and with the primary and



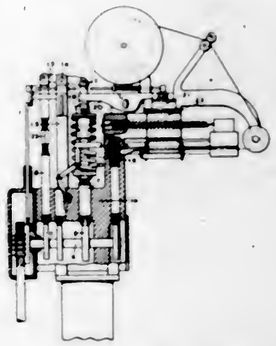
secondary of said transformer, a first lamp connected in series with said secondary and said battery, and a second lamp connected in series with said battery and with such part of the ignition system of the engine as relates to said cylinder.

2,664,013

BOTTLE CAPPING MACHINE WITH MEANS FOR CONTROLLING THE FORCE ON CAPPING PLUNGERS

Nelson Vincent Burdin, Coventry, England, assignor to Scotts Engineering (Newport) Limited, Newport, England

Application February 28, 1949, Serial No. 78,695
4 Claims. (Cl. 74—53)



1. In a bottle capping machine comprising a movable capping member, a compression spring, a rotary cam shaft, a cam member mounted on said shaft, a cam follower moved by said cam member to co-act with one end of the compression spring to gradually load said compression spring, a second cam mounted on said rotary cam shaft, a second cam follower moved by said second cam member, a pivoted linkage one end of which is connected to said second cam follower, the other end of said linkage co-acting with the other end of the compression spring to release the load on said spring at a predetermined moment and a pivoted beam one end

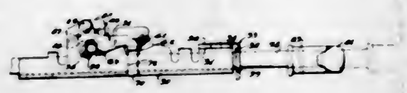
of which co-acts with the compression spring to cause said beam to move about its pivot to operate the movable capping member of the capping head of the machine.

2,664,014

MECHANISM CONTROL

David R. Feemster and Robert S. Hinsey, Toledo, Ohio, assignors to The Bingham-Herbrand Corporation, Toledo, Ohio, a corporation of Ohio

Application July 7, 1949, Serial No. 103,365
15 Claims. (Cl. 74—502)



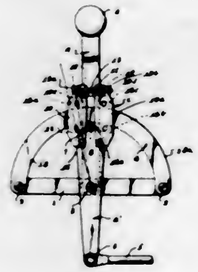
1. A mechanism control device including, in combination, a support; a member associated with said support and adapted for longitudinal and rotatable movement with respect thereto; a clutch roller arranged for frictional clutching engagement with said member and said support; means associated with said member for releasing said clutch roller from clutching engagement with said member; said clutch roller releasing means being arranged to be actuated by relative rotative movement of said member.

2,664,015

LOCKING MECHANISM FOR RESTRAINING MOVEMENT OF AN OPERATING MEMBER FROM A PREESTABLISHED POSITION

Maher Moore, Los Angeles, Calif.

Application April 21, 1952, Serial No. 283,318
10 Claims. (Cl. 74—531)



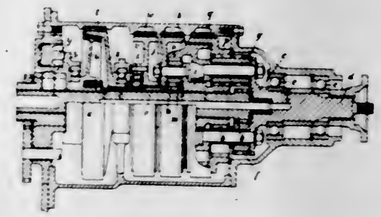
1. A locking mechanism comprising: the combination with a stationary frame and a guide, of a lockable unit and a locking unit, one of which units is slidably related to the other unit, said guide having cross sectionally opposite surfaces uniformly spaced apart, said locking unit including a support tiltably mounted on said frame and fulcrumed at one extremity, and a pair of shoes pivotally held on said support between their ends and disposed at opposite sides of said guide for frictional locking engagement with said opposite surfaces of said guide when said support is tilted in a given direction by intentional movement of one of said units relative to the other while permitting free movement of the same unit in an opposite direction.

2,664,016

EPICYCLIC POWER TRANSMISSION MECHANISMS

Edgar Joseph de Normanville, Ashridge Park, Berkhampstead, England, assignor of one-half to Auto Transmissions Limited, Coventry, England

Application July 24, 1952, Serial No. 300,631
Claims priority, application Great Britain August 2, 1951
2 Claims. (Cl. 74—759)



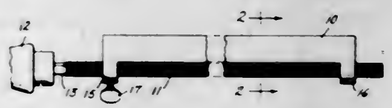
1. An epicyclic power transmission mechanism comprising the combination of an input shaft, a driving sun pinion on the said shaft, a reaction sun pinion freely mounted on the said shaft, a planet pinion carrier serving as the driven member, interengaging planet pinions on the said carrier respectively engaging the driving and reaction sun pinions, a brake-controllable internally toothed annulus engaging the planet pinions which engage the reaction sun pinion, an internally toothed annulus on the said planet pinion carrier, a second planet pinion carrier associated with the reaction sun pinion, a brake-controllable member on the second planet pinion carrier, a second reaction sun pinion freely mounted on the input shaft, planet pinions on the second carrier engaging the second reaction sun pinion and the annulus of the first planet pinion carrier, a brake-controllable clutch member associated with the second reaction sun pinion, and a complementary clutch member on the input shaft.

2,664,017

FILE HOLDER

Joseph B. Cox, Portland, Oreg., assignor, by mesne assignments, to Oregon Saw Chain Corporation, Portland, Oreg., a corporation of Oregon

Application March 13, 1950, Serial No. 149,429
8 Claims. (Cl. 76—36)



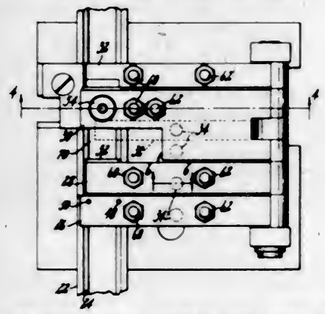
7. A file holder for use in forming a concavely beveled cutting edge on a cutting tool, said holder comprising a member defining a flat, planar reference surface having one straight edge, and means on said member for securing thereto in laterally offset relation a cylindrical file of predetermined diameter with the axis of said file parallel with said edge and spaced therefrom by a distance slightly greater than the radius of said file, and with the axis of said file lying in a plane parallel to said surface and spaced therefrom by a distance slightly less than the radius of said file, whereby the plane of said reference surface and the periphery of said file define a relatively small acute angle therebetween.

2,664,018

MACHINE FOR OPERATING ON BRIQUETTES

Bernard A. Brown and Leonard A. Erickson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application August 18, 1950, Serial No. 180,233
3 Claims. (Cl. 77—5)



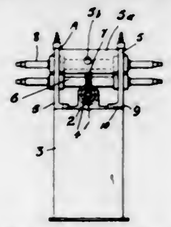
1. A delivery and operating mechanism for performing a similar machine operation on each of a plurality of work pieces of similar conformation, comprising in combination; a source of supply of pieces to be operated upon, an inclined chute connected with said source and having a contoured slide therein of a shape complementary to the shape of the pieces to be conveyed by gravity therealong, a control device associated with said chute intermediate the ends thereof and spaced from said source of supply and including a shaft, and four control fingers rotatably supported on said shaft, and individually operable for controlling the gravity progress of pieces carried by said chute, said fingers consisting of two sequentially operable stop fingers for controlling the progress of pieces carried by said chute, a holding finger including means for firmly supporting the piece during the machine operation and a nesting finger for stopping the piece when in position with respect to the holding finger, and a mechanism periodically operable to perform the machine operation on the pieces held by the holding finger, and including means associated in correlation thereto for selectively operating said fingers of the control device in a predetermined and reoccurring sequence.

2,664,019

ROLLING MACHINE

Leonard Bayliffe Henderson, Olton, England

Application June 25, 1947, Serial No. 756,841
Claims priority, application Great Britain June 29, 1946
1 Claim. (Cl. 80—35)



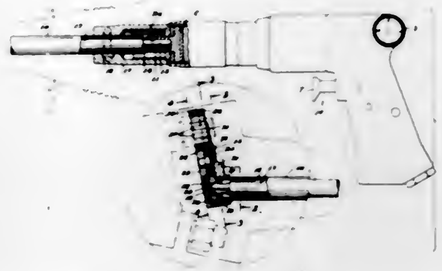
A rolling machine comprising a bed having a top surface, spaced bearings seated on said top surface, a single driving shaft supported at spaced points by said bearings, mortise or tenon means on said surface at each side of said shaft and between said spaced bearings, a worm disposed between said spaced bearings and mounted for drive on said shaft, a self-contained roll stand forming a unitary structure detachably mounted on said top surface, said stand comprising a pair of upright side members one on each side of said shaft and each having a bottom foot provided with mortise or tenon means interfitting correspondingly with those of said surface for engagement upon vertical assembly movement, upper and lower roll shafts extending across and beyond said side members, journals in said side members for said roll shafts, whereby the latter have respective ends projecting beyond both said side members for mounting rolls thereon, reinforcing means extending between said side members and interconnecting the latter at a level above said lower roll shafts so that an open space is provided between said bottom feet of said side members and directly above said driving shaft and said lower roll shaft, a worm wheel splined to the lower roll shaft and positioned intermediate said side members and engaging said worm of said driving shaft, the interfitting tenon and mortise means and the position of said worm and said worm wheel, which allow for vertical movement of said worm wheel out of mesh with its worm being such that said self-contained roll stand may be vertically removed with inherent disengagement from its worm drive.

2,664,020

GEAR OPERATED PANCAKE-TYPE WRENCH FOR USE IN CONFINED SPACES

Frank J. De Note, Forestville, Conn., assignor to The Bristol Tool Machine Company, Inc., Forestville, Conn., a corporation of Connecticut

Original application January 6, 1951, Serial No. 204,773, now Patent No. 2,629,278, dated February 24, 1953. Divided and this application January 23, 1953, Serial No. 332,920
2 Claims. (Cl. 81—52.4)



1. In an angularly offset socket wrench, an open-ended hollow handle rotatably supporting a drive shaft therein, power means supported on one end of the handle and drivingly connected to said drive shaft, the free end of said drive shaft being oval in longitudinal section and polygonal in cross section, and extended beyond the free end of said handle, a pancake type transmission gear and wrench housing rigidly connected to the free end of the handle in angular relation thereto, a drive gear mounted in one end of the housing and having a polygonal opening which receives the correspondingly shaped end of the drive shaft, and transmission gearing in the housing interposed between the drive gear and a wrench socket.

2,664,021

SELF-RELEASING NUT STARTER

Kenneth D. Clayson, Butztown, Pa.

Application February 1, 1951, Serial No. 208,950
4 Claims. (Cl. 81—64)



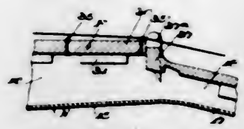
1. In a tool for applying threaded fasteners in inaccessible locations, a shank, a handle on one end of said shank, a head removably affixed to the other end of the shank, said head having spaced and confronting interior walls forming an axially extending annular recess, a helical coil spring having its upper convolutions received in said annular recess and its lower convolutions extending beyond said recess to yieldingly and frictionally engage the corner edges of nuts and the heads of other threaded fasteners, the confronting walls of said recess being provided with mutually arranged threads for threadedly receiving said coil spring.

2,664,022

NUT FOR STRINGED MUSICAL INSTRUMENTS

Mario Maccaferri, Rye, N. Y., assignor to French American Reeds Manufacturing Co., Inc., New York, N. Y., a corporation of New York

Original application March 15, 1950, Serial No. 149,741, now Patent No. 2,597,154, dated May 20, 1952. Divided and this application January 5, 1952, Serial No. 265,074
1 Claim. (Cl. 84—314)



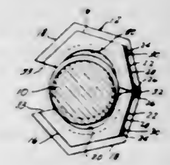
In a stringed musical instrument, in combination, a hollow resonant body having a sounding board over and closing the top side thereof; a neck member extending from one end of said body; a head member at the outer end of said neck member; string tuning keys mounted on said head member; a fingerboard on the top side of said neck member in position extending thereon between said head member and said body; a string divider in position disposed transversely across said neck between said fingerboard and said head member; said string divider having transverse, spaced playing string receiving slots therein; said fingerboard being provided with a series of frets thereon, including a first fret, with each fret of said series of frets including said first fret being formed of identical material and characteristics disposed on said fingerboard transversely across the outer side thereof in positions spaced apart therealong between said string divider and said body; said first fret of said series of frets being positioned at the outer end of said fingerboard disposed transversely thereacross at and substantially against and along the inner side of said string divider; a bridge member on and extending a distance outwardly from the outer side of said sounding board; said bridge member providing a playing string contact surface across the outer side thereof; playing strings attached at their opposite ends to said bridge member and said tuning keys, respectively; said playing strings being adapted to be extended under tension from said tuning keys through the slots in said string divider to said bridge member and being supported between the said tuning keys and bridge member solely on said first fret and on said string contact surface on said bridge member; and said string contact surface of said bridge member being positioned a distance outwardly from said sounding board to maintain said playing strings normally spaced outwardly a distance from and out of contact with the frets of said series of frets between said first fret of said series of frets on which said strings are supported and the said body.

2,664,023

SNAP-ON SPLIT NUT

Ronald Mugford, Hartford, Conn.

Application November 30, 1951, Serial No. 259,182
2 Claims. (Cl. 85—33)



1. A nut comprising: a nut member including a pair of half-nut elements having polygonal outer surfaces and arcuate, threaded, confronting inner surfaces coacting to form a threaded bore in which may be engaged a threaded shank to which the nut is applied, said elements having confronting ends; shoulders formed upon and projecting radially from the outer surfaces of the nut elements, said shoulders having side walls arranged normally to the axis of said bore and formed with elongated recesses opening at one end upon one end of the elements, said recesses opening throughout their lengths through said side walls of the shoulders, to form each recess open along one of its sides; a flat spring having its opposite ends seated in said recesses and connecting the elements at said one end thereof, said spring being fully exposed throughout its length through the open sides of the recesses and being tensioned to bias the elements away from each other, so as to spread the other ends thereof apart and thus form a wide space between said other ends through which the shank may be entered and removed; and a locking sleeve having a polygonal opening complementing and receiving the nut elements, said sleeve being shiftable axially of the nut member to surround the elements and hold them assembled about the shank against the action of the spring, said shoulders forming abutments limiting movement of the sleeve axially of the nut member in one direction and said sleeve, when abutted against the shoulders, closing the open sides of the recesses, the shoulders and sleeve having aligned, polygonal outer surfaces proportioned to receive a wrench or like tool.

2,664,024
WAVE LENGTH INDICATOR IN SPECTRAL APPARATUS

Gerhard Hansen, Heidenheim on the Brenz, Germany, assignor to Zeiss-Opton Optische Werke Oberkochen G. m. b. H., Oberkochen, Wurttemberg, Germany

Application March 11, 1950, Serial No. 149,101
Claims priority, application Germany March 23, 1949
2 Claims. (Cl. 88—14)

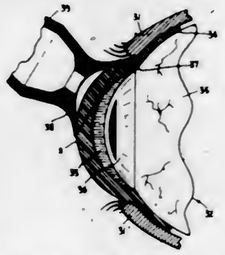


1. In a spectral monochromator apparatus at least including a dispersive prism element rotatably located within said apparatus, an entrance and an exit slit both of variable width fitted on said apparatus the combination with means for reading the range and width of wave length of the rays leaving said apparatus through said exit slit, said means comprising a light reflecting plane firmly united with said dispersive element, a wave length scale fixed to said apparatus, and optical means interposed between said light reflecting plane and said scale such as to form on said scale by means of the rays leaving said entrance slit and being reflected from said reflecting plane, an image of said entrance slit.

2,664,025
CONTACT LENSES AND METHOD OF MAKING SAME

William F. Herman, Sturbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application October 6, 1949, Serial No. 119,803
6 Claims. (Cl. 88—54.5)



1. A fitting lens adapted for use in forming contact lenses comprising a cup-like member that is transparent and has the general shape and size of a contact lens, said lens including a central portion to simulate the corneal portion of a contact lens and a surrounding scleral portion whose inner surface is shaped to the approximate shape of the surface of the average person's sclera, said scleral portion being formed of a temperature-critical, thermoplastic, tough, transparent synthetic resin and being characterized by its ability to repetitively soften and become pliable when subjected to approximately body temperature and to be relatively rigid and shape-retaining when subjected to normal room temperatures, said lens being positionable over a person's eye where its scleral portion under slight pressure will conform to the person's sclera under the action of the patient's body heat and when removed from said person's eye and subjected to room temperature will hold said shape and be sufficiently rigid and shape-retaining to allow an impression to be taken of the inner surface shape of said scleral portion of the fitting lens which may be then used to form a contact lens having an accurately shaped inner scleral surface.

2,664,026
REFLECTING TYPE IMAGE FORMING LENS SYSTEM

Arthur J. Kavanagh, Darien, Conn., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application November 3, 1949, Serial No. 125,180
6 Claims. (Cl. 88—57)



1. An image forming optical system comprising two optically aligned spherically curved reflecting surfaces having their respective centers of curvatures located substantially at a common axial point, the radii of said surfaces being so proportioned relative to each other as to provide at an image plane a predetermined axial distance from said common point an image of predetermined magnification, substantially free from coma, astigmatism and distortion, said reflecting surfaces having their radii R_1 and R_2 substantially equal to, respectively,

$$\frac{2}{\alpha_3+1} \text{ and } \frac{2M}{1+M\alpha_3}$$

when the equation

$$\frac{M-1}{8M^2}[M^2\alpha_3^2+M(M+1)\alpha_3-(M^2+M+1)]=0$$

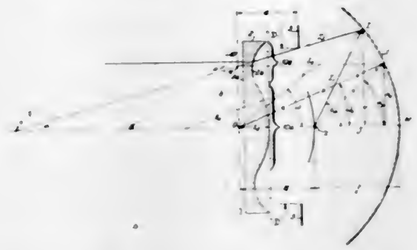
is satisfied and M is the predetermined magnification the system is to provide, and α_3 is approximately equal to the numerical value of the angle which any chosen image-forming ray between the two reflecting surfaces makes up the optical axis of the system, whereby the system will be well corrected for residual spherical aberration.

2,664,027
MODIFIED SCHMIDT-TYPE OPTICAL SYSTEM

Louis P. Raitiere, Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York

Application February 7, 1951, Serial No. 209,808
3 Claims. (Cl. 88—57)

1. A catadioptric optical system adjusted for finite conjugate foci, said system comprising a concave spherical mirror, a correcting element positioned on the axis of said system for cancelling the spherical aberration of said mirror, a diaphragm having an aperture symmetrically disposed about the axis of said system, said diaphragm and said corrector element being positioned between said mirror and the center of curvature of the latter, said diaphragm being spaced from the center of curvature within the limits of $0.80R<e<0.86R$, said corrector element being spaced from said center of curvature a distance X within the limits of $0.81R<x_0<0.022R$, where R is the radius of curvature of said mirror, e is the distance of the diaphragm from the center of curvature, x_0 is the distance of the

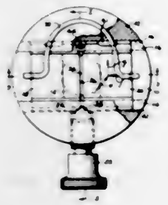


corrector element from the center of curvature of the mirror and where the diameter D of the aperture in said diaphragm is within the limits $0.50R<D<0.80R$.

2,664,028
SLIT MECHANISM

Edgar J. Meyer, Buffalo, and James L. Read, Snyder, N. Y., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application December 31, 1948, Serial No. 68,682
1 Claim. (Cl. 88—61)

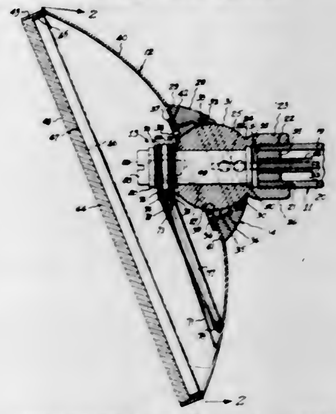


An adjustable slit mechanism of the character described comprising a support, guide means carried by said support including at least one accurately finished rectilinear guide surface, a pair of movable members supported by said support and having rectilinear bearing surfaces in engagement with said guide surface, a pair of adjacent complementary slit-forming edges carried by said movable members, spring means operatively associated with said members and arranged to constantly urge said members toward each other, a pair of sloping surfaces upon adjacent portions of said movable members, and an adjustable element carried by said support and having a wedge shaped portion adapted to be moved into various predetermined positions of adjustment in engagement with said sloping surfaces for holding said complementary edges on said members in spaced relation in opposition to the spring pressure to form a parallel-sided slit of desired width therebetween and for holding said members in engagement with said accurately finished guide surface, each sloping surface being so angularly disposed upon the associated movable member that a line normal thereto will intercept the line of force exerted by said spring at a plane which is normal to said rectilinear guide surface and substantially midway between the ends of the bearing surface or surfaces of the associated movable member.

2,664,029
REMOTELY ADJUSTABLE REARVIEW MIRROR

Richard L. Higgins, Detroit, Mich.

Application April 7, 1951, Serial No. 219,833
12 Claims. (Cl. 88—93)

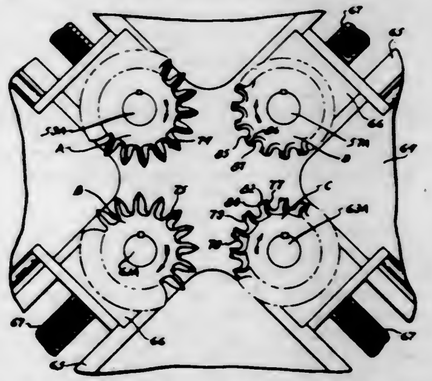


1. A remotely-adjustable rear view mirror comprising a bracket adapted to be attached to a vehicle, a mirror support loosely and tiltably mounted on said bracket, a mirror mounted on said mirror support, a shaft rotatably mounted in said bracket, a driving arm drivingly mounted on said shaft adjacent said mirror support and having stops thereon, a pair of driven arms loosely mounted on said shaft on opposite sides of said driving arm and having contact portions disposed in the paths of travel of the stops of said driving arm and engageable thereby in response to the swinging of said driving arm upon rotation of said shaft, the outer portions of said driving and driven arms being engageable with said mirror support at locations remote from said shaft whereby to tilt said mirror support in response to the swinging of said driving arm, and mechanism extending from said shaft to a location remote therefrom for rotating said shaft.

2,664,030
METHOD OF AND APPARATUS FOR GENERATING AND CUTTING GEARS

Keith B. Trace, Detroit, Mich., assignor of one-half to Walter E. Pace

Application October 10, 1945, Serial No. 621,490
8 Claims. (Cl. 90—3)



3. A cutter of the class described, comprising: a body; a cutter on said body having a cut-away

portion on its face inwardly of its periphery providing an undercut surface having a cutting edge at its outer end, the cutting edge facing inwardly toward the axis of the body.

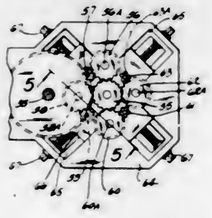
6. The method of cutting from a solid cylindrical blank a cylindrical gear of the spur or helical type in which a tooth space runs generally longitudinally and out of one end of the cylinder, comprising starting at the said end of the blank and cutting from the side of the solid blank into the desired depth of the tooth space and out to remove a lamina of material equal to the cross section of the desired tooth space and of an incremental thickness and continuing such cutting action in step by step increments until the tooth space is cut to the desired length.

2,664,031

METHOD OF GENERATING AND CUTTING GEARS

Keith B. Trace, Detroit, Mich.

Application May 26, 1947, Serial No. 750,443
4 Claims. (Cl. 90—3)



1. The metnod of cutting a gear consisting in rotating a solid unworked-upon blank from which the gear is to be formed on its own axis, feeding the marginal face of said blank into the teeth of a cutting element rotating in the direction opposite to the direction of rotation of said blank for forming recesses of proper depth in the marginal portion of the blank and then bringing said recesses into engagement with the teeth of a cutter rotating in a direction opposite to the direction of rotation of said blank for cutting said recesses to a proper width and then bringing one side of each of said recesses into contact with the teeth of a cutting element rotating in a direction opposite to the direction of rotation of said blank for establishing and finishing on one side the involute and then bringing the opposite side of said recess into engagement with a cutting tooth of another rotating cutter rotating in a direction opposite to the direction of rotation of said blank for cutting and finishing the involute on the opposite side of said recess.

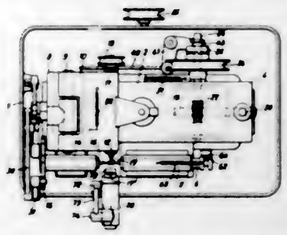
2,664,032

AUTOMATIC PINION CUTTING MACHINE

André Bechler, Moutier, Switzerland

Application April 4, 1951, Serial No. 219,156
Claims priority, application Switzerland April 15, 1950
2 Claims. (Cl. 90—9)

2. An automatic pinion cutting machine comprising in combination, means for supporting a work piece at a work station, movable rotary tool supporting means mounted on said first casing for performing advance and return movements of the tool relatively to said work piece supporting means, a first camshaft, indexing means comprising a cam on said first camshaft for indexing the work piece, mechanisms comprising further cams on said first camshaft for effecting advance and return movements of said tool supporting means, a second camshaft arranged beneath said first camshaft, an actuating mechanism including a cam on said second camshaft for actuating said work piece supporting means for releasing a work piece and for subsequently engaging another work piece, a magazine adapted to hold a plurality of work piece blanks, a work piece feeder mechanism connected with for timing by said actuating mechanism and including a cam on said second camshaft; first drive means for driving said first camshaft, said first



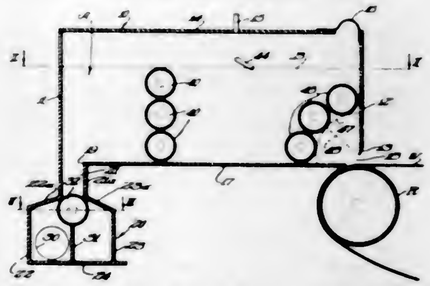
drive means comprising a first clutch, second drive means for driving said second camshaft, said second drive means comprising a second clutch, clutch actuating means comprising a cam connected with said indexing means for engaging said second clutch and subsequently releasing said first clutch when the work piece has been indexed through one complete revolution and comprising cam means on said second camshaft, for engaging said first clutch and releasing said second clutch when said second camshaft has made one revolution.

2,664,033

STOCK INLET

Lloyd Hornbostel and Edward D. Beachler, Beloit, Wis., assignors to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin

Application July 7, 1949, Serial No. 103,402
13 Claims. (Cl. 92—44)



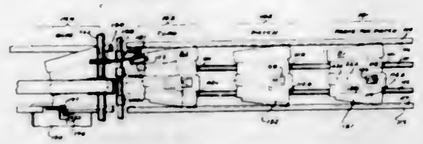
1. A stock inlet box for a paper machine comprising a head box having an inlet opening at one end for receiving stock from a source and having an outlet opening at the other end for flowing stock onto the forming wire of a paper making machine, transversely extending rotatable rectifying means mounted within the box in spaced relation from the inlet and outlet to present a uniform restriction to the flow of stock through the box while preventing rolling of stock and the formation of dead stock areas within the box, and vent means for maintaining a level of stock in the box that will submerge the rectifying means, said rectifier means presenting the sole restriction to stock flow through the box.

2,664,034

METHOD AND APPARATUS FOR MAKING CARTONS FOR PACKAGING OF LIQUIDS

Paul E. Fischer, Minneapolis, Minn., assignor, by mesne assignments, to E. G. Staude Manufacturing Company, Inc., Concord, N. H., a corporation of New Hampshire

Application September 2, 1952, Serial No. 307,512
9 Claims. (Cl. 93—36)



7. In an apparatus for making cartons from blanks having a pasting flap along one edge comprising a frame, a pair of flexible elements guided on the frame for linear movement therealong in spaced relation, upstanding fingers on each of said elements for engaging the trailing edge of blanks and for progressing them linearly along said frame with said pasting flap at an angle to the direction of movement, means for pasting a pouring outlet forming patch on the blank as it is moved, means for rotating the blank after the pouring outlet patch has been applied thereto, said means including a turning roll having a periphery of material having a high coefficient of friction, said turning roll being mounted by running contact with a surface of the blank disposed from one of said linearly movable elements, means for rotating said roll at a speed such that its periphery moves slightly faster than said linearly movable elements and in the same direction, a guide along the frame adjacent said roll for engaging the pasting flap when it is brought into contact therewith, said guide being parallel to the path of movement of said linearly movable elements, and means for applying paste to the patch as the thus turned blank is moved linearly therealong.

2,664,035

SLITTING, SCORING, AND FOLDING MACHINE

Louis W. Rosellus, Lake Success, N. Y., assignor to S & S Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y., a corporation of New York

Application June 5, 1951, Serial No. 229,933
5 Claims. (Cl. 93—49)



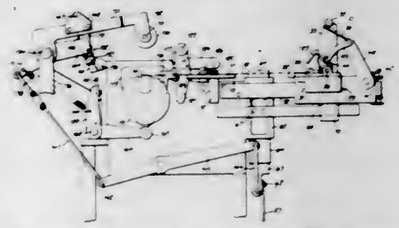
1. Apparatus for making a tubular collapsed box from a blank, said apparatus comprising means for supporting a stack of blanks; means for feeding blanks successively from the stack; creasing and slitting rollers extending transversely of the path of movement of said blanks; said feeding means directing each successive blank into said creasing and slitting rollers; feed rollers located on the other side of said creasing and slitting rollers from said feed means; an overrunning drive for said feed rollers, said blank being moved by said feed rollers, the peripheral speed of said feed rollers when driven being equal to the peripheral speed of said creasing and slitting rollers; a high speed feed roll located beyond said first mentioned feed rolls; oscillatable blank panel folding plates; said high speed feed roll, when the blank reaches the same drawing the blank from the first mentioned feed rolls at a higher speed than the driven speed for said feed rolls and moving said blank into position to be engaged by said folding plates; means for rotating said folding plates on an axis parallel to the path of movement of said blank; stop means holding said blank stationary during the folding operation of said folding plates; and blank delivery means engaging said blank and moving the same from the folding position after the folding operation is completed.

2,664,036

CONTAINER-MAKING MACHINE

Louis Triolo, Brooklyn, N. Y.

Application September 7, 1951, Serial No. 245,586
6 Claims. (Cl. 93—77)



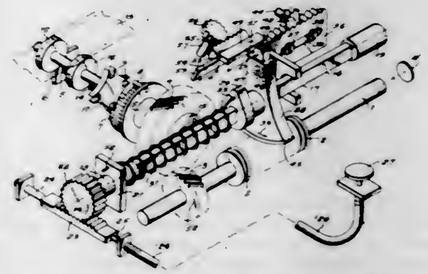
1. A machine for making cylindrical containers from rectangular blanks comprising a frame, a cylindrical mandrel having a longitudinal recess in the periphery thereof, a drive shaft journaled in the frame, a spindle carried by the drive shaft and secured within the mandrel recess, suction means associated with the spindle for securing one end of the blank thereto as the mandrel rotates, means for effecting an adhesive surface on the other end of the blank and a follower roller arranged to engage the blank on the mandrel as it rotates eccentrically of the drive shaft axis, a pivoted arm on which the roller is journaled, and means for exerting pressure on the roller as the ends of the blank overlap on the mandrel.

2,664,037

EXPOSURE AND FILM-FEEDING CONTROL DEVICE FOR PHOTOGRAPHIC CAMERAS

André Victor Leon Clement Debrie, Paris, France

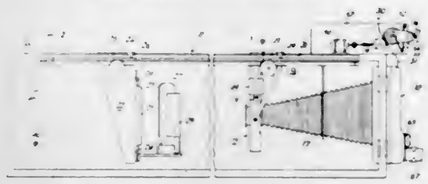
Application May 10, 1950, Serial No. 161,155
Claims priority, application France May 21, 1949
11 Claims. (Cl. 95—11)



1. In a camera, in combination, shutter operating means movable between shutter opening and shutter closing positions; releasable holding means operatively connected to said shutter operating means for holding the same in said shutter opening position for a predetermined

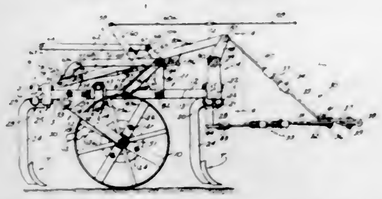
length of time; film feeding means operatively connected to said releasable holding means to be actuated thereby; and adjusting means operatively connected to said releasable holding means to enable the latter to control said film feeding means so as to feed a predetermined length of film.

2,664,038
APPARATUS FOR TYPE COMPOSITION
George E. Canham, West Orange, N. J., assignor to Ralph C. Coxhead Corporation, Newark, N. J., a corporation of Delaware
Application September 25, 1951, Serial No. 248,145
3 Claims. (Cl. 95—14)



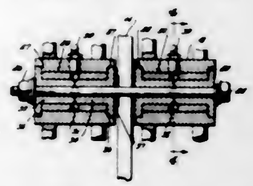
1. In automatically operated camera apparatus in which a film web is exposed and then advanced with a juxtaposed paper web to cause development of the film and printing on the paper web within the camera upon advance of the film to take a succeeding picture, electrically driven means for advancing the film between exposures, a switch in circuit with said electrically driven means and closed for a fixed interval of time to energize said means, said interval of time being longer than that required to advance the film between exposures, a movably mounted pin adapted to be received within a perforation in one of the webs so as to be carried with the webs for a short distance, and an electrical switch actuated by the movement of said pin in the direction of travel of said webs for interrupting an electrical circuit to the film-advancing means.

2,664,039
VARIABLE TREAD EARTHWORKING IMPLEMENT WITH FRAME LEVELING MEANS
Loyd E. Heckathorn, Garden Grove, Calif., assignor to Towner Manufacturing Co., Santa Ana, Calif., a partnership
Application December 29, 1947, Serial No. 794,405
5 Claims. (Cl. 97—46.17)



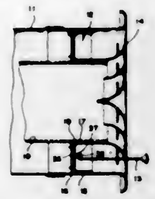
3. In an earthworking implement, the combination of: a pair of transversely spaced ground wheels; a pair of wheel frames in which said ground wheels are respectively mounted; a transverse beam upon which both of said frames are mounted; means for raising and lowering said frames and beam with respect to said wheels; a plurality of earthworking tools also mounted upon said beam; a draft tongue pivotally connected with the forward ends of said wheel frames; and leveling means attached to said raising and lowering means and to said draft tongue for automatically maintaining said frames level in both lowered and raised positions, said leveling means including limiting arms and positioning arms for limiting movement of said raising and lowering means, and said raising and lowering means including bell cranks for carrying said wheels, an anchor beam for each limiting arm, and a swinging bracing link pivoted to each anchor beam and to its limiting arm and to the respective bell crank, whereby to control the relative position of the respective wheel.

2,664,040
ROTARY EARTH TILLING DEVICE
George E. Beard, San Angelo, Tex.
Application October 24, 1950, Serial No. 191,896
3 Claims. (Cl. 97—52)



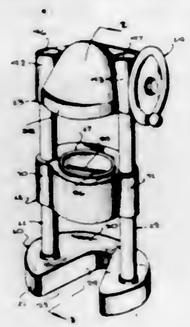
1. An earth tilling device comprising an elongated bar having a longitudinally extending slot therein, an axle extending through said slot, a rotary earth tilling unit on said axle on each side of said bar, each of said earth tilling units comprising a hub having an outwardly facing annular shoulder in each end thereof, bearing means in each end of said hub adjacent said shoulders, a spacer sleeve surrounding said axle within said hub between said bearing means, said spacer sleeve having an axial length substantially equal to the axial distance between said shoulders, and means on the ends of said axle engaging the outer bearing means of each tilling unit and applying inwardly directed forces to said outer bearing means and through said spacer sleeve to the inner bearing means of each tilling unit to force the inner bearing means of each tilling unit toward the sides of said bar, thereby causing said earth tilling units to be tightly clamped to said bar while preventing said bearing means from being forcibly urged against their associated shoulders.

2,664,041
DAMPER ASSEMBLY
Erland R. Twede, Yuba City, Calif.
Application February 1, 1950, Serial No. 141,727
2 Claims. (Cl. 98—33)



1. In a damper assembly for installation in a circular hot air conduit which surrounds a circular cold air return conduit, spaced apart annular supporting members within the hot air conduit, a plurality of louvers pivotally mounted to said annular supporting members and extending completely around said annular supporting members, a plate extending forwardly from the front end of each louver, clip means connecting the front end of each plate with the rear end of the plate on an adjacent louver, and an operating lever secured to one of said louvers so that movement of the operating lever will impart simultaneous pivotal movement to all of the louvers through said plates and clip means.

2,664,042
FRUIT JUICE EXTRACTING DEVICE
Ronald W. Walker, Borger, Tex., assignor of one-half to Eugene E. Piper, Borger, Tex.
Application April 11, 1952, Serial No. 281,800
4 Claims. (Cl. 100—98)



1. A fruit juice extractor comprising a base having a notch therein for receiving a juice glass, standards extending upwardly from said base in spaced apart and substantially parallel relationship to each other and having rack teeth thereon at locations spaced from said base, a hollow head structure disposed between said standards and having sleeve formations at respectively opposite sides thereof slidably receiving said standards, a first shaft extending transversely of said head structure and journaled therein, gear teeth on said first shaft meshing with the rack teeth on said standards for moving said head structure longitudinally of said standards upon rotation of said first shaft, a second shaft journaled in said head structure and having one end projecting outwardly of the latter, gear means drivingly connecting said second shaft to said first shaft, shaft rotating means connected to said second shaft at said one end thereof, a hollow bed structure disposed between said standards and between said head structure and said base and having sleeve formations disposed at respectively opposite sides thereof slidably receiving said standards, spring abutment formations disposed one on each of said standards between said bed structure and said base, compression springs disposed between said spring abutments and said bed structure sleeve formations permitting a limited freedom of resiliently resisted movement of said bed structure toward said base when said bed structure is subjected to pressure by said head structure, a blade extending transversely of said bed structure between said standards and having a cutting edge along its top edge and spaced apart grooves extending downwardly from said cutting edge, means supporting said blade on said standards against movement of the former relative to the latter, a lower dished pan supported on the top of said bed structure and having an upwardly facing concave side and a transversely extending slot receiving said blade, an upper dished pan mounted on the bottom of said head structure and having a downwardly facing convex side and a transversely extending slot which receives the upper portion of said blade when said head structure forces said bed structure toward said base against the force of said springs, and a cup mounted on said bed structure below said lower dished pan and having a bottom wall disposed below said blade and provided with a pouring spout aligned with the inner portion of the notch in said base, said blade being effective to sever a piece of fruit compressed between said dished pans and the grooves in said blade providing passages for the flow of juice from the slot in said lower dished pan into said cup.

2,664,043
STENCIL RECORDING BLANK AND PROCESS OF PREPARATION
Harold R. Dalton, Jenkintown, Pa., assignor, by mesne assignments, to Timefax Corporation, New York, N. Y., a corporation of New York
Application June 17, 1947, Serial No. 755,263
17 Claims. (Cl. 101—128.2)



4. An electro-sensitive blank for forming a perforated non-fibrous stencil, comprising a backing member, a first electrically conductive film of non-fibrous pliable plastic which is directly coated on to the surface of said backing without any separate intervening adhesive and which has substantially negligible interpenetration with the said surface so as to be separably adherent to said backing member with low adhesive affinity, and a second electrically conductive film of non-fibrous pliable plastic of lower conductivity than the first film and superposed on said first film and bonded thereto to form a unitary layer which is readily and integrally peelable as a unit from said backing while in a dry condition.

2,664,044
ELECTRIC SIGNAL RECORDING BLANK
Harold R. Dalton, Jenkintown, Pa., assignor to Timefax Corporation, New York, N. Y., a corporation of New York
Application January 16, 1948, Serial No. 2,563
9 Claims. (Cl. 101—149.4)



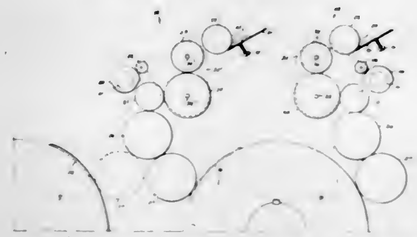
4. An electro-sensitive blank for recording electric signals applied thereto, comprising a supporting backing of non-conducting material having an outer coating which is removable in localized areas in response to electric signals applied thereto, and an intermediate coating of electrically conductive material sandwiched between the backing and said outer coating, said material being of graded conductivity through its thickness considered from the outer coating to the backing and with the portion thereof of lower conductivity being adjacent to said outer coating and with the portion of higher conductivity having a transferable dye therein.

2,664,045

INKING MECHANISM FOR PRINTER SLOTTER-MULTICOLOR ROLLS

Gabriel Nicholas Rullo, Astoria, N. Y., assignor to S. & S. Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y., a corporation of New York

Application April 15, 1952, Serial No. 282,425
6 Claims. (Cl. 101—183)



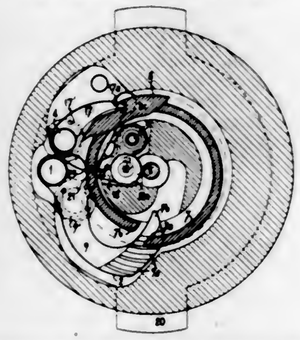
1. In a printer slotter having a printing cylinder and a slotting cylinder; an ink pad for said printing cylinder; an ink pad for said slotting cylinder; an inking system comprising an ink supply, a form roll and means for transferring and spreading ink from the ink supply to the form roll; said form roll being located between said cylinders and having a plurality of selectable positions; said form roll being arranged in one of said selectable positions to engage the ink pad on said printing cylinder and being arranged in another of said selectable positions to engage the ink pad on the slotting cylinder.

2,664,046

MECHANICAL TIME FUSE MECHANISM FOR PROJECTILES

Guido Hoenger, Zuchwil, Switzerland, assignor to Mefina S. A., Binningen, Switzerland, a corporation of Switzerland

Application April 23, 1951, Serial No. 222,343
Claims priority, application Switzerland July 7, 1950
10 Claims. (Cl. 102—84)



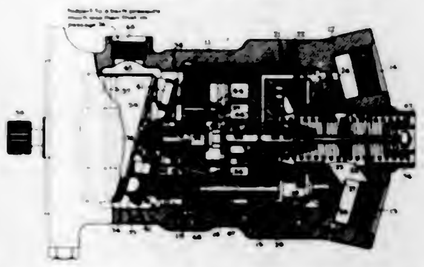
1. A mechanical time fuse mechanism for projectiles comprising a striker for detonating the fuse, a clockwork mechanism, a rotary member driven by said clockwork mechanism through a plurality of revolutions, a guide member on said rotary member in the form of a single spiral, a striker locking bolt movable to and from striker locking position, a centrifugal bolt engageable with said rotary member for retaining it against rotation, and an intermediate pivoted bolt having means engageable with said spiral guide for shifting said intermediate bolt in one direction upon rotation in one direction for setting the fuse and for shifting said intermediate bolt in the opposite direction upon driving of the rotary member in the opposite direction by the clockwork mechanism, said intermediate bolt having a portion engaging the centrifugal bolt for shifting the centrifugal bolt to a position to release the rotary member upon setting the fuse and also engaging the striker locking bolt for controlling release movement of said striker bolt.

2,664,047

VARIABLE DELIVERY PUMP

Matthew W. Huber, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey

Application May 3, 1950, Serial No. 159,825
7 Claims. (Cl. 103—2)



1. In a hydraulic pump, the combination of a cylinder having a main discharge port in communication with the cylinder at one end thereof, and a side port which serves as an inlet port; a piston reciprocable in said cylinder between positions in which it obstructs and exposes said side port said piston and cylinder enclosing a working space whose volume is varied by the reciprocation of the piston; a pressure-actuated valve controlling flow through said main discharge port and subject in an opening direction to pressure in said working space; means providing a secondary discharge port leading from said working space, and so obstructed and exposed alternatively by the piston as to be exposed for a minor portion of the piston stroke at a time when the piston closes said inlet port; and one-way flow means controlling said secondary port and serving to permit outward and inhibit inward flow therethrough.

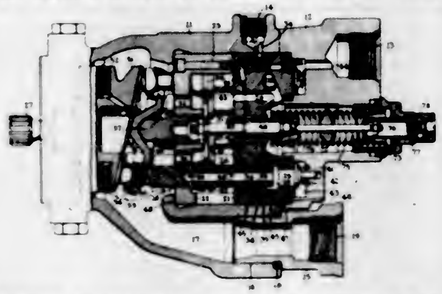
2,664,048

HYDRAULIC PUMP WITH BY-PASS FLOW

Matthew W. Huber, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey

Application May 21, 1951, Serial No. 227,331
15 Claims. (Cl. 103—37)

1. In a pump, the combination of a plurality of cylinders; a plurality of plungers, one reciprocable in each cylinder, each plunger having a spill-back port; means for reciprocating said plungers; a discharge connection common to said cylinders and in which a discharge pressure is maintained by operation of the pump; a pressure motor subject to said pressure; means for loading said motor in opposition to said pressure; valves controlling said spill-back ports and shiftable in the direction of plunger reciprocation to vary the effective stroke of the corresponding plungers; and connections through which the motor shifts said valves in ranges of position so differentiated that as to the majority of plungers the effective stroke is varied in inverse relation to discharge pressure between a maximum and zero, and as to the minority, not less than one, the effective stroke is simultaneously varied between a maximum and an effective stroke greater than zero, whereby at least one cylinder remains



effective to maintain discharge pressure against leakage when the remaining cylinders have ceased delivery.

2,664,049

FLUID-OPERATED PUMP WITH PNEUMATIC SHOCK ABSORBER

Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio

Application February 16, 1948, Serial No. 8,524
14 Claims. (Cl. 103—46)



1. In a shock absorber for use in a well pumping apparatus comprising a fluid-operated pump having first and second tubings connected thereto, the first tubing being adapted to convey operating fluid to the pump to operate same and the second tubing being adapted to convey from the pump production fluid discharged thereby, the combination of: yieldable chamber means adjacent the pump; and means for exposing said yieldable chamber means to fluid pressure obtaining in said first tubing at a point in close proximity to the pump.

2,664,050

DOMESTIC APPLIANCE

Carel F. Abresch, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application March 2, 1949, Serial No. 79,226
5 Claims. (Cl. 103—117)

1. A pump including a rotary impeller, said impeller being provided with a plurality of substantially uniformly spaced blades, a casing surrounding the impeller fitting against the ends of the blades and extending into contact with the tips of the blades and forming an impeller chamber, said casing having an inlet and an outlet communicating with the impeller chamber, said impeller being provided with axially parallel rounded radially projecting beads between every two adjacent blades extending a lesser distance



from the axis of rotation than the blades, a portion of the casing between the inlet and the outlet being sufficiently near the axis of the impeller to fold the blades into substantially continuous engagement with the adjacent portion of said beads from the inlet to the outlet so that the beads act like a bending fixture to force uniform bending of the blades as the impeller rotates, said blades being formed principally of a flexible rubber-like material.

2,664,051

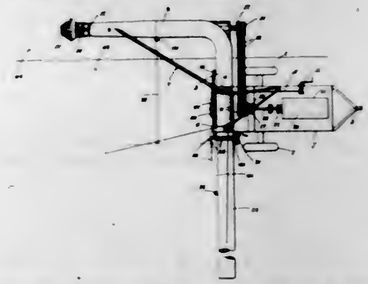
WITHDRAWN

2,664,052

PORTABLE DITCH PUMP

Lloyd K. Schmidt, Walnut Grove, Calif., assignor of one-half to Albert M. Jongeneel, Walnut Grove, Calif.

Continuation of abandoned application Serial No. 736,915, March 25, 1947. This application February 16, 1953, Serial No. 336,940
4 Claims. (Cl. 103—202)



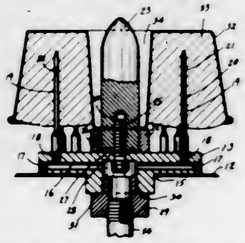
1. A water pumping means comprising the combination of: a vehicle adapted for transport from point to point; a pipe mounted on the vehicle adjacent the rear end thereof above ground level and disposed transversely of the vehicle, the pipe being rotatable in its mounting about its longitudinal axis; a fixed extension on one end of the pipe extending at substantially right angles thereto and adapted to be lowered into or lifted out of a water sump upon turning of the pipe; a pump disposed in the extension; power means on the vehicle operatively connected with the pump; an extension on the other end of the pipe; such last named extension being adapted to be extended in end to end relation with the pipe when the first extension is in a sump, and such last named extension being hinged to the pipe for swinging movement in a direction rearwardly of the vehicle; and releasable means for clamping the last named extension in such end to end relation with the pipe.

2,664,053
AMUSEMENT DEVICE
Walter M. Eckbreth, Monongahela, Pa., assignor of one-third to J. H. Cromling, Bonola, Pa.
Application July 9, 1951, Serial No. 235,753
2 Claims. (Cl. 104—53)



1. An amusement vehicle comprising a pair of side walls joined by front and rear walls and having a seat mounted therebetween, said vehicle having an open top and bottom, and handles formed on the side walls whereby the vehicle can be lifted by the occupant of the vehicle, the open bottom of the vehicle being of such a size that the legs of the vehicle occupant may extend therethrough enabling the occupant to stand upright and walk freely while surrounded by the vehicle and supporting the same by the handles.

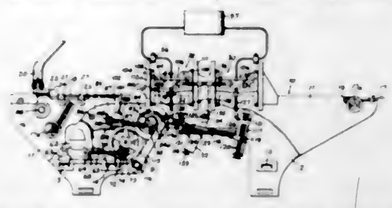
2,664,054
APPARATUS FOR INJECTING FILLING WITHIN BAKERY PRODUCTS
Joseph M. Galvin, Indianapolis, Ind.
Application November 17, 1951, Serial No. 256,876
2 Claims. (Cl. 107—1)



1. In apparatus for injecting filling under pressure within bakery products, the combination of injector means with means adapted to support a receptacle for said products in operable relation to said injector means, said injector means comprising a circular header having a chamber formed therewithin, a plurality of vertically disposed nozzles carried by said header in annularly spaced relation and in communication with said chamber, and said second mentioned means comprising an annular flange connected to the upper surface of said header, an upright guide element disposed within said flange and connected to said header, said flange and said element being adapted to support a bakery pan in inverted relation whereby said nozzles project upwardly therewithin.

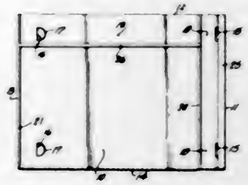
2,664,055
APPARATUS FOR DEPOSITING MARSHMALLOW, DOUGH, BATTERS, AND THE LIKE
Earle T. Oakes, Douglaston, N. Y., assignor to The E. T. Oakes Corporation, Islip, N. Y., a corporation of New York
Application February 20, 1951, Serial No. 211,961
11 Claims. (Cl. 107—29)

1. A depositor comprising a tubular member having a plurality of nozzles, a closed system including flexible conduits to supply flowable material under pressure to said tubular member for discharge through said nozzles, valve means interposed between said nozzles and said tubular member movable to open and closed positions to permit and prevent, respectively, flow of said material through said nozzles, means supporting said tubular member for movement substantially



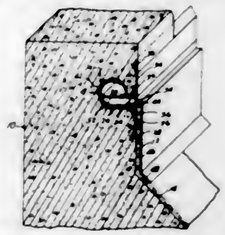
horizontally and up and down, and mechanism operated in timed relation to move said tubular member substantially horizontally in one direction, open said valve during said movement, close said valve, move said tubular member upwardly and in the opposite direction, then downwardly and repeat the cycle.

2,664,056
INTERLOCKING SHINGLE
David B. Ronzone, Wilmington, Del.
Application April 5, 1949, Serial No. 85,638
3 Claims. (Cl. 108—17)



1. An interlocking shingle comprising a body portion of general rectangular configuration having a forward edge, transverse edges and a rear edge, a portion of the shingle adjacent said forward edge being upwardly offset, locking slots formed at the juncture of said offset portion and the remainder of the shingle, cooperating locking tabs formed in the body of the shingle adjacent the rear edge and spaced inwardly of the edges of the shingle, and ribs extending across the shingle parallel to the forward edge.

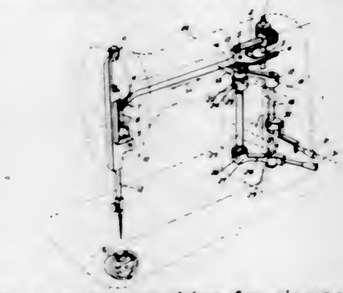
2,664,057
REGLET
Le Roy J. Ausland, Seattle, Wash., assignor to Pioneer Sand and Gravel Company, a corporation of Washington
Application August 22, 1952, Serial No. 305,895
5 Claims. (Cl. 108—26)



1. A reglet and counter flashing assembly for concrete structures, comprising; a reglet formed

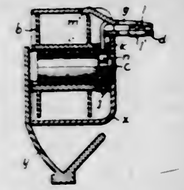
from sheet material and including a generally tubular mid width portion adapted to be embedded in a concrete structure adjacent one wall of said structure, spaced, coplanar flange integral with opposite edges of said mid width portion and adapted to be disposed in flush relation to said wall of the concrete structure, said flanges being spaced apart to define a channel opening upon said wall and communicating with the interior of the mid width portion, and means on said flanges arranged to be embedded in said wall; and a counter flashing associated with said reglet, said counter flashing including a curved top edge portion complementing and engageable within the mid width portion of the reglet, a plane, horizontally disposed portion integral with the curved top edge portion and projecting outwardly through said channel, and a depending flange member on the plane portion, said flange member being extendable downwardly over the wall of said structure to provide a flashing therefor.

2,664,058
ZIG-ZAG STITCH ADJUSTING MEANS
Giuseppe Amman, Milan, Italy, assignor to Fratelli Borletti Societa per Azioni, Milan, Italy, a body corporate
Application March 28, 1951, Serial No. 217,931
Claims priority, application Italy April 7, 1950
2 Claims. (Cl. 112—158)



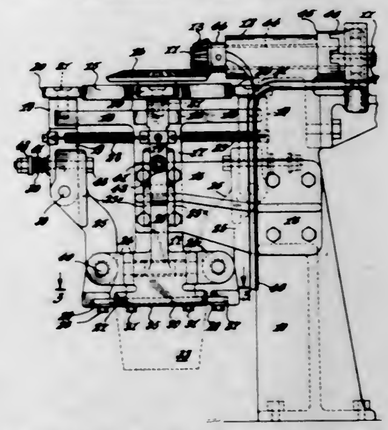
1. In a sewing machine for zig-zag stitching having a main shaft, a reciprocating needle bar, a needle carried by said bar, a support for the needle bar and means mounting the support for oscillating movement to impart transverse oscillatory motion to the needle bar and needle, a mechanism for oscillating the needle bar support, setting the field of vibration of the needle and for regulating the amplitude of the oscillations comprising an eccentric driven by the main shaft, a lever having a forked end embracing the eccentric, and transversely oscillated thereby, means connecting the other end of the lever to said needle bar support, fulcrum means intermediate the ends of said lever, a guide element having a guiding slot therein receiving said fulcrum means, a first arm mounted for swinging movement transversely and longitudinally of the lever, means mounting said guide element on the free end of said arm for rotary movement relative to said arm about an axis parallel to the axis of the fulcrum means, a second arm mounted for swinging movement about an axis parallel to that of the first arm, a shaft extending between the end of the second arm and the guide element, universal joint connections between said shaft and second arm and between the shaft and guide element for rotating the guide element about its axis, said guide slot coacting with the fulcrum means when inclined to the path of oscillation of the fulcrum means to cause the fulcrum means to move in a direction longitudinally of the lever and impart longitudinal movement to said lever, means for shifting the second arm to shift the position of the guide element angularly about its axis to vary the longitudinal movement imparted to the lever and amplitude of the needle oscillations, and means to shift the first arm to shift the slot carrying guide element transversely and longitudinally of the lever to vary the starting point of the oscillations of the needle.

2,664,059
SPOOL BOX FOR SEWING MACHINES
Allan Herman Eriksson, Huskvarna, Sweden, assignor to Husqvarna Vapenfabriks Aktiebolag, Huskvarna, Sweden, a corporation of Sweden
Application April 3, 1950, Serial No. 153,579
Claims priority, application Sweden April 7, 1949



1. In a sewing machine, the combination with a shuttle having a grooved pin mounted thereon, of a spool box adapted to be mounted on the pin and having a tongue mounted thereon for facilitating insertion and removal of the spool box from the shuttle, said tongue being directed at substantially right angles to a head wall of the spool box, and a coupling member pivotally mounted on the tongue to be movable toward and away from the tongue and having an arm extending into the box and cooperating with the groove in the pin for coupling the spool box to the shuttle, said coupling member being mounted movably on at its pivot at one side of the tongue so as to be engaged by the fingers of the operator at the same time as the tongue is grasped for the insertion and removal of the spool box from the shuttle.

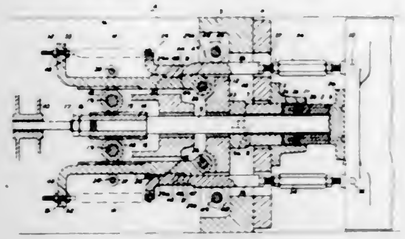
2,664,060
MACHINE FOR CLOSING CONTAINERS
Gordon Hammond, Ashland, Va., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application March 23, 1950, Serial No. 151,346
3 Claims. (Cl. 113—18)



1. A machine for securing metal lids to metal containers comprising a vertical base, a pair of

brackets horizontally disposed from said base, a post secured to said spaced-apart brackets in a vertical position, said post carrying a frame having bifurcated fingers disposed 90° apart from each other, a die holder pivotally secured to each of the bifurcated fingers, an arm pivoted to said die holder, an oval cam rotatably secured to the top of said post, a gear adapted to rotate said oval cam secured to the top of said oval cam, a plurality of rotatable cam followers secured to each of said arms, a top frame having four slots therein at spaced intervals at 90°, the said arm being disposed in said slot of said top frame, a plurality of springs disposed laterally and successively between said arms, said die holder having a first die therein having a corrugated face, and a second die having a flat face, said post being provided with a lower rectangular die having corrugations on all four sides.

2,664,061
DEEP-DRAWING OF SHEET METAL
Charles Joseph Rhodes, Wakefield, England
Application February 4, 1950, Serial No. 142,404
Claims priority, application Great Britain November 18, 1949
3 Claims. (Cl. 113—46)



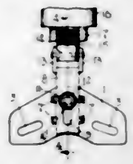
1. A press for the deep-drawing of sheet metal comprising a frame, a ram mounted for reciprocation in said frame, a female die carried by said ram, said ram being mounted in said frame for reciprocation co-axially of said female die with a working and a return stroke, a bearing fixed in said frame co-axially of said female die, a former spindle slideable in said bearing into and out of said female die during said working and return strokes respectively, an annular member slideably mounted on said former spindle and co-operating with said female die, a transmission member adjustably mounted on said former spindle, rack-and-pinion means operatively connecting said transmission member with said former spindle to convert sliding motion of said transmission member into equal and opposite sliding motion of said former spindle, a pair of adjustable-length links pivotally attached to said ram and swingable into and out of engagement with said transmission member, a first abutment face on each link and a corresponding first abutment face on said transmission member which co-operate during the working stroke, a second abutment face on each said link and a corresponding second abutment face on said transmission member which co-operate during the return stroke, said second abutment faces being inclined to urge said links to disengage said transmission member, a pair of rollers mounted on said frame, and ramps on said links co-operating with said rollers to swing said links into engagement with said transmission member at a predetermined point of the working stroke and to hold said links in engagement until the corresponding point of the return stroke is reached.

2,664,062
METHOD OF DIE STAMPING AND DRAWING
William J. Bentsen, San Diego, Calif., assignor to Solar Aircraft Company, San Diego, Calif., a corporation of California
Application April 28, 1947, Serial No. 744,374
1 Claim. (Cl. 113—51)



In the art of stage forming sheet metal into a final article having a longitudinally curved trough portion having longitudinally extending flanges joining the trough portion at sharp shoulders, the method comprising preforming the metal between preliminary mating dies to produce longitudinally extending wrinkles in portions of said trough and to provide a bulge over a part of the flange portions closely adjacent said shoulders to provide excess metal at said wrinkles and said shoulders, and pressing the preformed sheet between mating final dies thereby placing said bulged portion and said wrinkles in said sheet in compression to prevent thinning in the stamping in the area adjacent said sharp shoulder and to thicken said trough at said wrinkles.

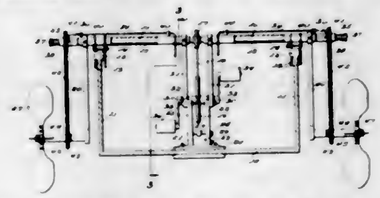
2,664,063
AUTO BODY REPAIR FIXTURE
Edward E. Makruski, Elyria, Ohio
Application February 21, 1950, Serial No. 145,485
1 Claim. (Cl. 113—99)



In an auto-body repair fixture, a bracket comprising a plate adapted to be secured to an auto wheel mount, a slideway on said plate, a slide mounted in said slideway and adapted to be adjustably secured to said plate, a jack member secured to said slide adapted to bear against the body of the auto, said bracket having a pair of laterally spaced slots adapted for engagement with the studs of an auto wheel mount, and said jack member being disposed so as to perpendicularly bisect a line connecting the upper ends of said slots, and being adapted thus to extend radially outwardly from such wheel mount, said slots being non-parallel and symmetrically disposed relative to said member, said slots further extending in a direction substantially tangent to a circle about the axis of the wheel mount.

2,664,064
MANUALLY OPERATED BOAT PROPELLING MECHANISM
Joseph Frank Prenosil, Sr., Moorhead, Minn.
Application January 11, 1952, Serial No. 266,047
3 Claims. (Cl. 115—23)

1. In combination with a boat hull having a bottom and sides, a propelling mechanism including alined bearing sleeves, a clamp means carrying said sleeves and adapted to fit over and grip the upper edges of said sleeves, a shaft extending through said sleeves, pedal means connected to the center of said shaft, a pair of paddle wheels, means to support said paddle wheels exterior of the hull at the sides thereof, said shaft having its ends projecting outwardly of the remote ends of said sleeves, a clutch member fixed adjacent each end of said shaft, a cooperating clutch member for each fixed clutch



member, means actuated by said cooperative clutch members for driving said paddle wheels, springs urging said cooperating clutch members into engagement with the fixed clutch members, guide eyes fixed on said sleeves at the inner and outer portions thereof, shipper rods engaging said cooperating clutch members and extending inboard of the hull through said guide eyes, and operating handles on the inner ends of said rods.

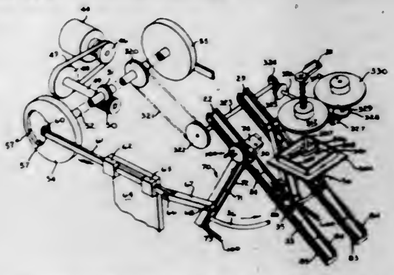
2,664,065
HIGHWAY SIGNALING DEVICE
Mernard A. Thompson, Los Angeles, Calif.
Application November 28, 1952, Serial No. 322,917
1 Claim. (Cl. 116—63)



A device of the character described, comprising in combination a circular base plate, a pin adapted to be inserted in a roadway and having a flanged head for securing said base plate on the surface of such roadway and a circular clapper plate tiltably carried by said pin above said base plate and having a peripheral portion normally spaced from said base plate and adapted to be manipulated into impact engagement therewith by the movement of a vehicle wheel thereover, said pin extending through said plates and having a clapper supporting bushing thereon.

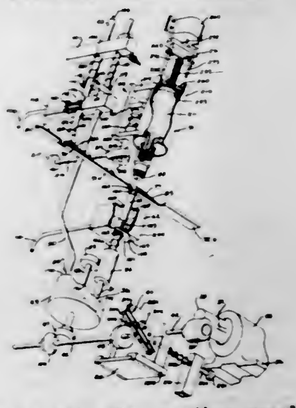
2,664,066
CAPACITOR COATING MACHINE
Robert Loring Martin, Whittier, Calif., assignor to Solar Manufacturing Corporation, Los Angeles, Calif., a corporation of New York
Application May 1, 1951, Serial No. 223,883
20 Claims. (Cl. 118—213)

1. An automatic disc coating machine for coating a metallic material on an insulating disc; said machine comprising a pair of parallel inclined tracks; a succession of said discs being slidable down each of said tracks; a horizontal screen supported above said tracks; a continuously rotating squeegee operating over said screen; means on each track for halting each disc beneath said screen; means cooperable with each track for raising each disc against said screen; a stencil opening in said screen at the point engaged by each disc and located above each track; each disc being raised to said screen before said squeegee reaches said stencil opening, said raising means also lowering each of said discs after the squeegee passes said opening, means for releasing each disc



from said raising means after the lowering operation and for dropping down said track past said halting means; and means for driving said squeegee and said raising means.

2,664,067
CAPACITOR COATING MACHINE
Robert Loring Martin, Whittier, Calif., assignor to Solar Manufacturing Corporation, Los Angeles, Calif., a corporation of New York
Application March 13, 1951, Serial No. 215,349
9 Claims. (Cl. 118—232)

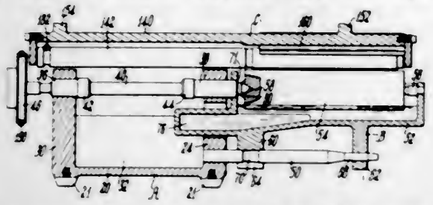


1. An automatic disc coating machine comprising an input hopper at one end and an output chute at the other end of said coating machine; an inclined track connecting said hopper and said chute, said track comprising a loading step and an indexing step; means for raising said disc above said loading step, thereby allowing it to slide down said track to said indexing step; means for raising and rotating said disc at said indexing step; power operated means for applying a given amount of coating material to said disc at said indexing step while said disc is in its raised position, and a single cam means adapted to operate said raising, rotating and coating means.

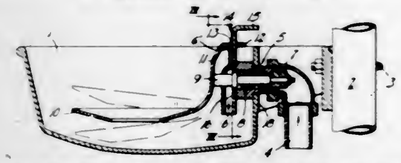
2,664,068
CEMENTING MACHINE FOR THIN FLEXIBLE SHEET MATERIAL
Walter P. Osgood, Malden, Mass., assignor to Boston Machine Works Company, Lynn, Mass., a corporation of Massachusetts
Application April 12, 1950, Serial No. 155,543
2 Claims. (Cl. 118—258)

1. A machine of the class described comprising a base, a horizontal shaft rotatably mounted on

said base with an end portion projecting therefrom, a fixed rod projecting from said base parallel to said shaft, said rod having a portion inwardly tapering toward the base, a unit securable to said base, said unit having holes through which said shaft and rod project when the unit and base are secured together, said unit including a trough, a horizontal roll rotatably mounted in said trough in operative engagement with said shaft, and means for maintaining a pool of liquid in said trough, and means for detachably securing said unit to said base, said securing means consisting of a screw threaded through a portion of said unit and pressing against the tapering portion of said rod.



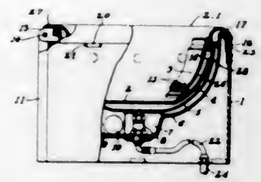
2,664,069
ANIMAL OPERATED DRINKING BOWL
Austin E. Anderson, Jamestown, N. Y.
Application October 6, 1949, Serial No. 119,932
4 Claims. (Cl. 119—75)



1. In an animal drinking fountain including a bowl, a water supply pipe, a valve assembly connected adjacent the end of the water supply pipe for controlling the discharge of water into said bowl, said valve assembly including a valve, a spring normally seating said valve, and a valve stem for said valve, said valve stem having an end portion within said bowl, an upstanding anchor lug supported within the bowl and having an opening through which said valve stem extends, said anchor lug including inner and outer side face portions and laterally extending shoulders, and a swingable presser plate in said bowl, said presser plate including a flange portion, said flange portion being formed with a slot to receive said anchor lug, said flange including lateral projecting portions at each side of its slot for seating engagement upon said shoulders, the slot in said flange being slightly greater than the upstanding lug extending therethrough to permit the swinging movement of the presser plate upon said shoulders to a position for operative engagement with said valve stem and frictional gripping engagement between the walls of the flange slot and the inner and outer face portions of said lug, whereby the presser plate is secured against vertical movement on said lug during opening movement of the valve.

2,664,070
STOCK WATERER
Carroll H. Nelson, Cedar Rapids, Iowa
Application November 6, 1950, Serial No. 194,233
11 Claims. (Cl. 119—81)

1. In a stock waterer, a housing, a reservoir mounted in the upper part thereof, an intermediate float bowl seated loosely in the reservoir, a cover bowl having its side wall and bottom extending downwardly into the intermediate bowl and having a rim rounded and extending outwardly and downwardly to rest upon the upper edge of the housing, the intermediate bowl being provided with openings in the wall thereof near the top to permit water to enter that bowl when it reaches a predetermined level in the reservoir, the cover bowl side wall being provided with a chamber having its inner wall integral with the cover bowl and its outer wall spaced from its inner wall and rigidly united thereto, the outer wall of the chamber being provided with openings near the top thereof and the inner wall of the chamber being provided with openings near the bottom thereof whereby water may pass from the float bowl into and through the chamber and into the lower central portion of the cover bowl, a water supply pipe in the housing leading to a valve mounted in the bottom of the reservoir adapted to supply water thereto, said valve being provided with an upwardly projecting stem adapted to be contacted by the bottom of the float bowl when the float bowl is in its lowermost position and thereby to open the valve, said valve also being adapted to be closed by the pressure of the water in the supply pipe when the float bowl rises sufficiently to clear the valve stem.

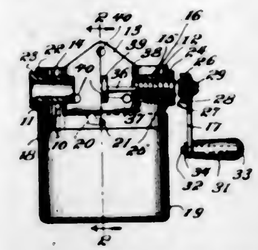


2,664,071
PENCIL SHARPENER
Alfred Guhl, Hamburg, Germany
Application September 6, 1950, Serial No. 183,369
Claims priority, application Netherlands
September 16, 1949
12 Claims. (Cl. 120—96)



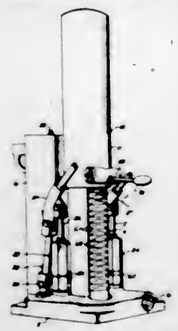
1. A pencil sharpener, comprising, in combination, support means for supporting a pencil to be sharpened; rotatably mounted cutting means located adjacent said support means for cutting a pencil; turnable gripping means mounted on said support means for gripping a pencil to be sharpened and, upon turning, feeding the pencil to said cutting means to be cut thereby; and a single drive means operatively connected to said cutting means and said gripping means for simultaneously operating said cutting means and turning said gripping means to automatically feed a pencil to be sharpened to said cutting means, whereby the pencil to be sharpened may be automatically fed and cut.

2,664,072
CRAYON POINTER
Mary C. Knapp, Springville, N. Y.
Application September 4, 1952, Serial No. 307,875
1 Claim. (Cl. 120—96)



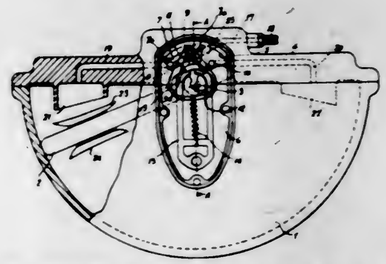
In a crayon pointer, the combination which comprises a circular band providing a head and having offset sections positioned at points in opposite sides, bushings positioned in the offset sections of the circular band of the head, one of said bushings having a bore for receiving internally, a stud threaded in the bushing threaded internally and having cutting knives extended from the end in the head, said knives being in the form of a V and having a ring carried by the extended ends thereof, and a hand crank on the end of the stud extended from the head and adapted to rotate the stud to feed the cutting knives toward a crayon positioned in the bushing on the opposite side of the head, said head having a depending skirt with oppositely positioned pins extended from the outer surface, and a cup having bayonet slots in the upper edge, said slots positioned for receiving the pins on the depending skirt of the head.

2,664,073
HYDRAULIC JACK
William S. Pine, Los Angeles, Calif.
Application November 14, 1950, Serial No. 195,598
4 Claims. (Cl. 121—40)



1. A hydraulic jack, comprising: a post having a piston at one end thereof and having longitudinally spaced ratchet teeth in its periphery, the bottom of the spaces between the teeth being straight and extending transversely of the post; the tops of the teeth being straight and providing a broken substantially flat surface; a cylindrical ram slidable axially on the post and having a closed end; means for introducing pressure operating fluid between said piston and said closed end of the ram to effect relative axial sliding movement of said post and said ram so as to extend the length of the jack; a pawl carried by said ram and pivoted on an axis parallel to said straight bottom of said tooth spaces, said pawl having a straight end engageable in successive tooth spaces during extension of the jack so as to lock said ram in selected positions of axial extension, engagement of said straight end of said pawl in said straight bottom of said tooth spaces serving to key said ram and said post against relative rotation; said pawl having a portion extending within the cylindrical outline of said post at all times, serving to prevent rotation of said ram regardless of the position of the straight end of the pawl and a weighted operating handle carried by said pawl and projecting radially and laterally from the pivotal axis thereof, said handle maintaining said pawl in engagement with said ratchet teeth and adapted, when raised to release said pawl from said teeth.

2,664,074
SUCTION MOTOR
William Edward O'Shei, London, England
Application November 8, 1950, Serial No. 194,611
Claims priority, application Great Britain
November 8, 1949
4 Claims. (Cl. 121—164)

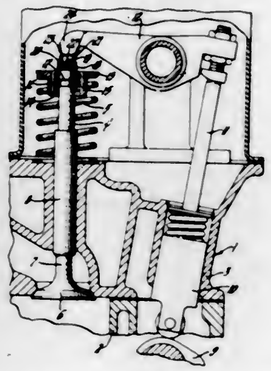


1. A suction motor having a chamber, a piston movable therein, a rocker shaft oscillated by said piston, a suction line, a valve controlling the connection of said chamber at opposite sides of said piston to said suction line, valve actuating member operated by the movement of said shaft with an over-centre snap-action to reverse the position of the valve and thereby alternately to reverse the direction of movement of said piston, a stop member movable into the path of movement of said valve actuating member to prevent the valve actuating member from snapping over the valve to reverse the direction of movement of the piston, and thereby cause the motor to stop, means for preventing the stop member from being moved into the path of movement of the valve actuating member except when the valve is in a position corresponding to one particular direction of movement of the piston, and means for changing the cooperative relationship between the stop member and said preventive means to select the valve position in which the stop member may be operated, thereby selecting the limiting position in which the piston will be parked when the motor is stopped.

2,664,075
VALVE ROTATING DEVICE
Andrew W. Zmuda, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 9, 1949, Serial No. 126,324
4 Claims. (Cl. 123—90)

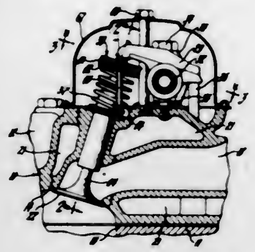
3. In an internal combustion engine, a valve operating rocker, valve means including a valve movable in response to movement of the rocker and a coil return spring, relative rotation be-

tween opposite ends of said return spring during elongation and contraction providing a rotative force for rotating the valve, means effectively anchoring one end of said return spring against rotation in either direction about the axis of the valve, a friction rotary driving connection between the opposite end of said return spring and



the valve, one-way clutch means rotatively engaging the valve and drivingly connected to the rocker, said clutch means being effective in response to movement of the rocker in one direction to rotatively drive the valve in a direction opposite to that at which it is urged by the rotation of said opposite end of the return spring.

2,664,076
EXHAUST VALVE ROTATOR
Morris V. Dadd and Paul L. Vermaire, Grand Rapids, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 12, 1952, Serial No. 282,042
7 Claims. (Cl. 123—90)



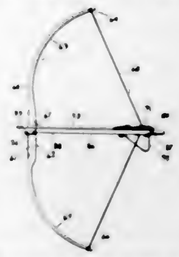
7. A valve mechanism comprising a valve member adapted to open and close a port formed in a wall, a washer mounted upon said valve member and having a cylindrical flange projecting from the peripheral edge thereof, said flange having a surface formed thereon in concentric relation to the axis of said valve, a thrust bearing disposed about said valve and being adapted to be supported by said wall, a spring surrounding said valve and having the opposite ends thereof supported by said thrust bearing and a part of said washer within said flange, a clutch spring frictionally mounted on the cylindrical surface of said flange, and the cam member adapted to be mounted on said wall and having a cam surface disposed obliquely with respect to the axis of said valve, said cam member being movably related to cam follower means formed on said clutch spring for operating said clutch spring upon the reciprocating movement of said valve.

2,664,077
BALL PROJECTOR
Fred E. Moore, Los Angeles, Calif.
Application April 24, 1951, Serial No. 222,557
2 Claims. (Cl. 124—16)



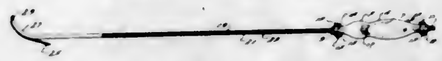
1. A projecting device comprising a base having a spacious frusto-conical recess extending upwardly thereinto with the larger end of said recess directed downwardly, a tubular extension projecting upwardly from said base, a plunger working within said extension, a vacuum cup axially attached to the lower end of said plunger and occupying the aforesaid recess, the mouth of said cup being downwardly directed, a floor plate attached to said base in an underlying relation to said recess, a seat member carried by the upper end of said plunger to seat an object to be projected into the air, and a spring within said tubular extension positioned to be compressed by said plunger whenever downward movement of the latter forces said vacuum cup into a suctionally applied relation to said floor plate.

2,664,078
ARROW SHOOTER
Herbert G. Irwin, Noble, La.
Application December 20, 1952, Serial No. 327,097
3 Claims. (Cl. 124—24)



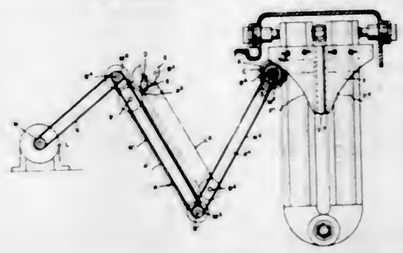
1. An arrow shooter comprising a bow provided with a grip between two limb portions for holding the bow in the hand, a bow string for driving an arrow, a bow string draw-bar, and an arrow rest and a draw-bar guide and a draw-bar catch shoulder together on the side of the bow at the upper end of said grip; said draw-bar having a rearward portion and a forward portion, the rearward portion of said draw-bar having a handle and an arrow chuck, said handle extending downwardly, said arrow chuck including a spring pressed hinged double bow string latch having a trigger for moving the latch to release the bow string, the forward portion of said draw-bar slidable backwardly in said draw-bar guide and having a catch shoulder adapted to abut against the catch shoulder on the bow to hold the bow string and the nock of an arrow held in the draw-bar in the drawn-back position with said arrow chuck, said bow string having a knot for locating said arrow chuck on the bow string.

2,664,079
METAL ARCHER'S BOW
Harry F. Lake, West Dearborn, Mich.
Application January 19, 1949, Serial No. 71,713
6 Claims. (Cl. 124—24)



1. In a bow, a tapered aluminum alloy limb having cross sections along all of its length except the outer end portion thereof which each comprises spaced transverse portions having straight edges defining the front and rear faces of the limb with the major dimension of said portions being tranverse to the direction of flexure of the limb and an integral web of substantially less transverse thickness connecting the portions, said outer end portion cross sections being of substantially uniform thickness and adapted to anchor one end of a bowstring.

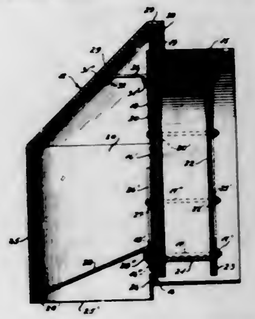
2,664,080
TRIMMING MECHANISM FOR GRINDER WHEELS
Samuel G. Brady, Royal Oak, Mich., assignor to The Gear Grinding Machine Company, Detroit, Mich., a corporation of Michigan
Application January 16, 1953, Serial No. 331,536
3 Claims. (Cl. 125—11)



1. In a trimming mechanism for form grinders including a plate having a fashioned edge forming a pattern and a pantograph having mounted thereon the trimming cutter and a follower roller for traversing the pattern and moving said cutter through a similar path; means for magnetizing said roller to hold the same in frictional contact with said pattern plate, a motor external to the pantograph, and transmission mechanism between said motor and said roller mounted on said pantograph and having elements thereof coaxial with the pantograph pivots, including the anchor pivot, whereby said roller is driven to traverse the pattern without interference with the articulation of the pantograph.

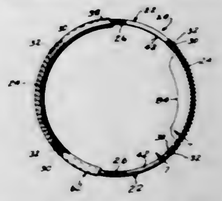
2,664,081
FLASH ARRESTER FOR DRAFT INTAKE OF FURNACE FIREBOXES
William O. Moran, Tulsa, Okla.
Original application October 14, 1948, Serial No. 54,451. Divided and this application July 8, 1952, Serial No. 297,617
3 Claims. (Cl. 126—85)

1. A flame arrester for the air intake of a furnace firebox comprising, in combination, an elongated housing having one end thereof adapted to be connected with the air intake of a furnace firebox, a rigid shell disposed within said housing adjacent the other end thereof, means connecting said shell to said surrounding elongated housing providing a tight closure therebetween, a plurality of spaced apart fine-mesh screens disposed within said rigid shell and extending substantially transverse to the longitudinal axis of said elongated housing and the rigid shell therein and connected to said rigid shell for



passage of supply air therethrough to the firebox but arresting a flame frome the firebox from passing back through said other end of the elongated housing, a hood attached to said elongated housing at the other end thereof, said hood being spaced from said other end of the elongated housing thereby providing air passageways about said other end of the elongated housing at opposite portions thereof which passageways are in communication with said other end of the elongated housing to permit the passage of supply air therethrough.

2,664,082
PESSARY
Walter J. Heuboski and Hymen T. Milgrom, Chicago, Ill.
Application March 15, 1948, Serial No. 14,916
4 Claims. (Cl. 128—127)

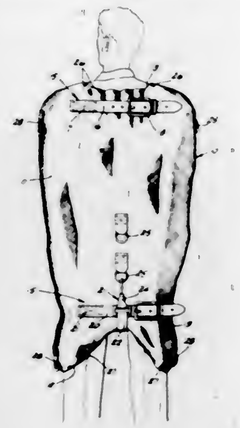


1. An annular pessary core including a pair of coil spring segments and a pair of relatively substantially stiffer segments connected alternately with said spring segments in substantially end-to-end relation, each of said stiffer segments comprising a rod with end portions telescoped within the adjacent end portions of said spring segments, each rod segment being enlarged substantially throughout its length between said spring segments.

2,664,083
RESTRAINING DEVICE
Joseph A. Heymans, South Gate, Calif.
Application August 16, 1952, Serial No. 304,749
3 Claims. (Cl. 128—134)

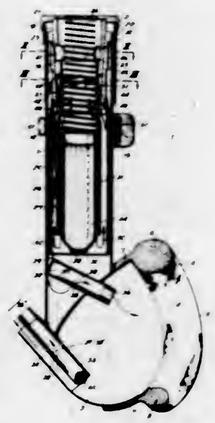
1. In a restraining device of the class described, a sleeveless garment open at the lower end and

having an opening at the upper end to receive the head and neck of a subject, the garment having no other openings, whereby the arms of the subject are confined within the garment, cinching devices mounted on the outer surface of the garment and spaced longitudinally thereon, the



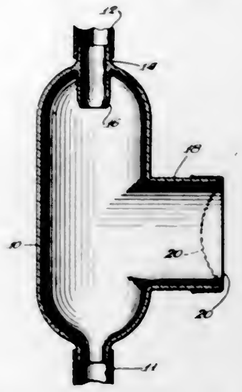
cinching devices being operable to tighten the garment laterally about the arms and torso of the subject, the material of the garment and the location of the cinching devices enabling the garment to be rolled into a ring shape with said opening in the center for installation over the head of the subject.

2,664,084
ANESTHETIC APPARATUS
Herbert Hammermann, Berlin, Germany
Application January 26, 1951, Serial No. 214,277
8 Claims. (Cl. 128—188)



1. An anaesthetic apparatus comprising a container, a glass vial having a small aperture at its top and concentrically positioned in said container in an inverted position and spaced from the walls thereof, a piece of an absorbent fibrous material placed in said container in contact with said vial in front of said aperture thereof, means for conducting air through said container past that fibrous material, and inhalation means communicating with said container.

2,664,085
VENOCLYSIS EQUIPMENT
George R. Ryan, Waukegan, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
Application June 15, 1950, Serial No. 168,187
11 Claims. (Cl. 128—214)



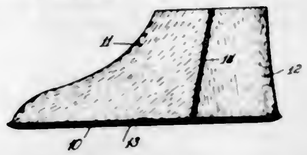
1. In venoclysis equipment for transferring parenteral fluids from a storage container to the veins of a patient through tubular connecting means, an improved drip chamber comprising a rigid transparent main chamber; a first tubular connecting means extending up from said main chamber for debouching in the fluid in said storage container; means directly associated with said main chamber for varying the effective volume of said main chamber by an amount greater than the interior volume of said tubular connecting means; and a second tubular connecting means to deliver a stream of fluid coming from said main chamber; said main chamber having inlet means shaped to deliver incoming fluid at a point where the flow can be seen.

2,664,086
AUTOMATIC INJECTOR FOR HYPODERMIC NEEDLES
Gerald O. Transue, Havertown, Pa.
Application August 15, 1950, Serial No. 179,409
18 Claims. (Cl. 128—218)



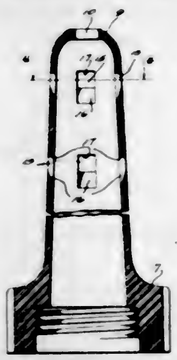
1. An automatic syringe injector comprising a tubular chamber adapted to receive and hold a syringe injector with its injector needle protruding therefrom, a cylindrical casing for said chamber in telescopic engagement therewith, said casing including a pair of telescopic tubular elements, and means carried by said casing and operative to positively retain the chamber in retracted position and to release the same from its retracted position automatically upon relative axial movement of said tubular elements, said means including a detent element secured in one of said tubular elements against axial movement relatively thereto and shiftable radially of the other tubular element into and out of retaining position.

2,664,087
MEDICINAL SLIPPER
Herbert R. Lewis, Oak Park, Ill., assignor of one-half to John J. Lawler, Chicago, Ill.
Application August 16, 1950, Serial No. 179,708
5 Claims. (Cl. 128—260)



2. In a medicinal slipper, portions forming a foot enclosure made of flexible crepe paper tightly sewed together, and paraffin-like impregnation inside the foot enclosure to retain the medicinal liquid.

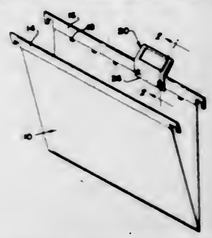
2,664,088
APERTURED TUBE FOR THE TREATMENT OF PILES OR THE LIKE
John Hoch, Wauwatosa, Wis., assignor to Braun-Hobar Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application October 15, 1952, Serial No. 314,883
2 Claims. (Cl. 128—261)



1. A medicament applicator of resiliently pliable plastic composition and comprising a tube of progressively decreasing cross section having an internally threaded base portion and an apertured tip, an intervening side wall provided at a plurality of spaced points with lateral apertures of rectangular outline, the side wall portion of said tube at the lower margin of each aperture proximate said base portion being beveled inwardly and toward the base portion to facilitate the expansion into the aperture of the medicament expelled through such tube.

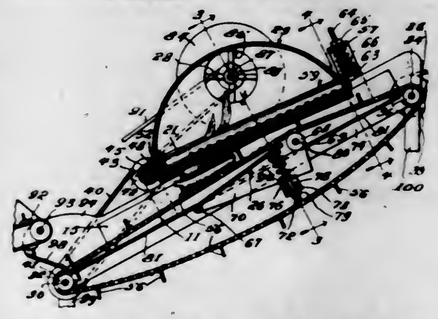
2,664,089
INDEX MEMBER AND ADJUSTABLE INDICATOR TAB THEREFOR
George B. Meltzer, New York, N. Y., assignor to Guide & Supply Co. Inc., New York, N. Y., a corporation of New York
Application January 3, 1947, Serial No. 719,949
2 Claims. (Cl. 129—16.8)

1. An indicator member comprising a leg member, protruding attachment means carried by said leg member, a lock bar permanently carried by said indicator member and being movably engageable with said protruding attachment means, said indicator member having means for guiding said lock bar into engagement with said protruding attachment means, said means for guiding said lock bar comprising a strap formed from



the material of said indicator member, said lock bar being slidably retained by said strap.

2,664,090
VACUUM CORN HUSKING UNIT
Ralph P. Morrison, Callaway, Nebr.
Application August 3, 1950, Serial No. 177,533
2 Claims. (Cl. 130—5)

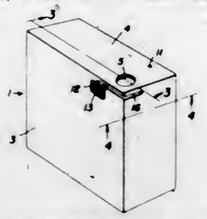


1. A corn husking unit comprising spaced parallel conveyors having flights thereon, shafts with wheels thereon for mounting said conveyors with the conveyors in upwardly inclined positions and with the lower ends of the conveyors positioned to receive products, the upper ends of said conveyors being positioned to discharge the products, a pair of husking rolls positioned above and parallel to each of said conveyors, means for pivotally mounting the ends of the said husking rolls at the receiving ends of the conveyors, resilient means supporting the ends of the husking rolls at the discharge ends of the conveyors with the said rolls inclined in relation to the conveyors wherein the distance between the ends of the rolls and conveyors at the discharge ends of the conveyors is less than the distance between the ends of the rolls and conveyors at the receiving ends of the conveyors, idler rollers positioned against the under surfaces of the conveyors, means resiliently urging the said idler rollers with the conveyors thereon upwardly toward the husking rolls, a plurality of troughs with upwardly extended and outwardly diverging sides positioned to coact with the conveyors and husking rolls, a hood positioned over the said husking rolls, and a blower extended from one end of the hood for exhausting air from said hood.

2,664,091
COMBINATION CIGARETTE CASE AND CUTTER
Gilbert Thostenson, Renville, Minn.
Application February 15, 1952, Serial No. 271,782
1 Claim. (Cl. 131—250)

A pocket cigarette case of rectangular cross-section for fitting flat in a pocket comprising an

open top cigarette container and a cover for the container slidably fitting over the same and having a flat top provided with an opening therein for the insertion of a part of a cigarette therethrough into the container, and a manually operative cutter blade pivoted on the underside of said cover for swinging across said opening to cut off the part of the cigarette inserted into the container, said cover having one end extended out of the container and cover for grasping to manipulate said blade, said container having a recess in the top edge thereof in which said blade is adapted to be swung below the cover to provide for the cover fitting flat against the top of the container, said cover having a side slot therein out of which said end of the knife blade extends, and which limits swinging of said blade.



2,664,092
SECTIONAL COMB
George F. Benco, Philadelphia, Pa.
Application March 22, 1950, Serial No. 151,279
7 Claims. (Cl. 132—17)



6. As a new article of manufacture and a component part of a sectional comb of the class described, a comb section having a body portion of a length substantially coextensive with the over-all length of the complete comb, said body portion having its inward face flat and provided at one end with a keying rib and at the opposite end with a groove forming a keyway, comb-teeth attached to and depending from the lower longitudinal edge portion of said body portion, a relatively stout end-tooth attached to one end of the body portion and depending in the same direction as the first-named teeth, the upper portion of said end-tooth being of stout cross-section and providing, on its inner side, an abutment, a reinforcing rib atop the upper edge portion of the body portion and extending from said end-tooth toward and terminating at the approximate center of the body portion.

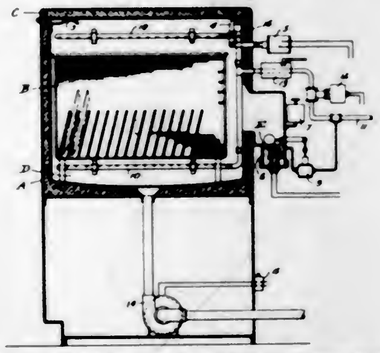
2,664,093
DENTAL FLOSS HOLDER
Robert N. Carpenter, Roslyn, N. Y.
Application October 23, 1951, Serial No. 252,610
5 Claims. (Cl. 132—91)

1. A dental floss holder for holding dental floss in place while in use comprising: a rigid frame having a longitudinal handle portion and a head portion projecting laterally from one end thereof, said head portion having a transverse open notch on the outer surface thereof near its free end and another transverse open notch on the outer surface thereof near the point of juncture with the handle portion and disposed at an angle extending away from the free end of the head, both of said notches being formed at approximately right angles to the plane of the body of the frame, and a floss retaining member for retaining the free ends of the length of floss formed at an intermediate portion of the handle portion on one side thereof whereby a length of floss may be threaded



from the retaining member on one side of the frame in a span to the notch at the free end of the head portion, thence through said notch and along the other side of the head portion to the notch at the point of juncture between the head and handle portions thence back through this notch to the first side of the frame and along the handle portion back to the retaining member.

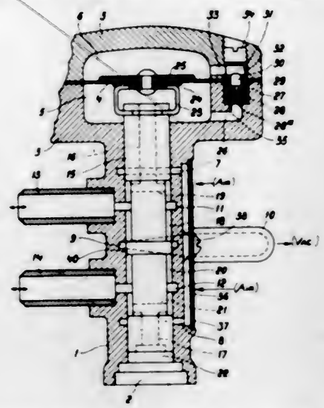
2,664,094
DISHWASHER
John Harris Spragins, North Wales, Pa.
Application August 1, 1947, Serial No. 765,597
4 Claims. (Cl. 134—58)



1. In a dishwasher, a washing compartment, a water well opening thereinto, a heating element in said well for generating steam, a hot water spray means within the compartment, a water supply pipe leading to said spray means, a valve in said pipe, and an instantaneous water heater in said pipe between said valve and the spray means.

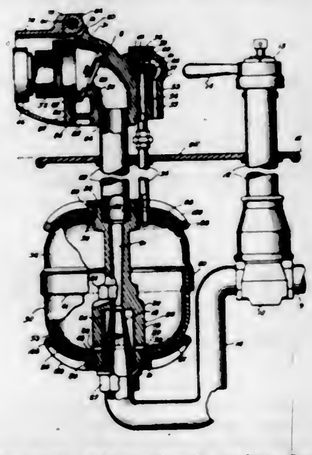
2,664,095
PNEUMATIC PULSATOR
Karl G. Magni, Ronninge, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application January 19, 1950, Serial No. 139,514
In Denmark July 11, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires July 11, 1962
3 Claims. (Cl. 137—103)

1. In a milking machine pulsator of the pneumatically operated type, control apparatus for regulating the operation of said pulsator, comprising a housing having a channel formed therein, a compressible tube of yielding material disposed in the channel and having a longitudinal throughflow passage limiting the throughflow area of the channel, an adjustment device



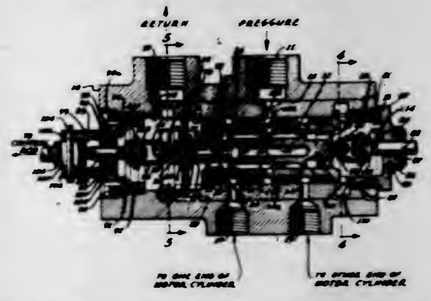
operatively associated with the compressible tube for compressing said tube longitudinally to throttle said passage, and a spiral spring coiled around and reinforcing the compressible tube whereby the material of the tube is displaced inwardly toward said passage upon longitudinal compression of the tube.

2,664,096
WATER SERVICE FIXTURE
Joseph Kelso Murdock, Cincinnati, and Eugene Le Roy, St. Bernard, Ohio, and Harold F. Oswald, Dayton, Ky., assignors to The Murdock Mfg. & Supply Company, Cincinnati, Ohio, a corporation of Ohio
Application November 21, 1947, Serial No. 787,270
1 Claim. (Cl. 137—218)



An air-inlet water-check valve for a frost-proof hydrant which comprises a housing having two upright spaced passageways therein communicating at their upper ends, one of said passageways communicating with the water space of the hydrant, the lower end of the other passageway opening to the atmosphere, an upright counterbore in said housing extending into the point of communication between said two passageways, an annular member seated in said counterbore, said annular member having a plurality of spaced lugs at the periphery thereof extending upwardly toward the top of the counterbore, a plug in said counterbore said plug having a channel therethrough communicating with both passageways, there being a valve seat on the plug opposite the lugs, and a valve disk housed between the lugs and the plug, said disk closing the channel in the plug when water rises in the head and raises the disk against said seat to close the passage leading to the atmosphere, the disk resting on said lugs when the water level in the head is reduced to reestablish communication with the atmosphere.

2,664,097
ROTATING SPOOL SERVO VALVE
Warde L. Parker, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application January 8, 1951, Serial No. 204,978
1 Claim. (Cl. 137—332)

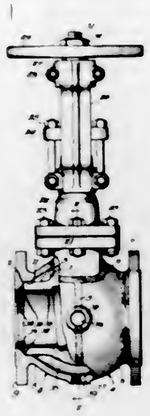


A hydraulic valve structure of the kind described, including: a valve body having a cylindrical bore and a return chamber connected to an outlet conduit; a valve spool mounted in the cylindrical bore and provided with an axial bore in communication with pressure fluid passages in said valve body; a part extending axially from the valve spool into said return chamber and provided with an axial bore communicating with the axial bore in the spool; a reaction motor mounted on said axially projecting part in said return chamber and provided with pressure fluid through the bores in the spool and axially projecting part; removable end caps closing each end of the bore in the valve body; pressure retaining bearings positioned in said end caps; rod elements supported for axial movement in said bearings and mounted co-axially with the valve spool; and anti-friction means within the bore of the valve body and connecting the rod element at one end of the valve body to the spool, and at the other end of the valve body connecting the rod element to the axially extending part on which the reaction motor is mounted.

2,664,098
JACKETED PRESSURE VESSEL
John A. McInerney, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application April 23, 1949, Serial No. 89,280
3 Claims. (Cl. 137—340)

1. In a jacketed pressure vessel, the combination of an inner casing and an outer casing, the said outer casing providing a pair of axially aligned hollow sections, each of the said hollow sections having outer edge portions attached to end annular surfaces of the said inner casing, the

said hollow sections having upper annular edges of semi-circular form, connections formed between said annular edges and a neck portion of the said inner casing, whereby a hollow fluid chamber is formed between the said inner casing



and the said sections forming the outer casing, the said outer edge portions having inner recessed portions receiving the end annular surfaces of the said inner casing, and pipe line connection means on end portions of the said hollow sections beyond said annular surfaces.

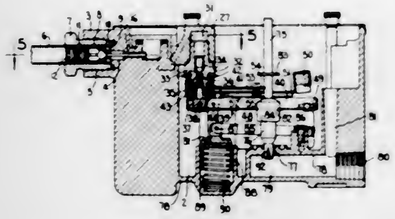
2,664,099

LIQUID LEVEL CONTROL MEANS

Walter S. Landon, deceased, late of Detroit, Mich., by Marion E. Landon, administratrix, Detroit, Mich., assignor to Detroit Controls Corporation, Detroit, Mich., a corporation of Michigan

Application May 15, 1947, Serial No. 748,299

9 Claims. (Cl. 137—391)



3. A liquid flow controlling device, comprising a casing having a chamber with an inlet and an outlet, a float operated valve controlling said inlet, a float member for operating said valve, cooperable magnet and armature members, means supporting one of said members for movement, means holding said one member in predetermined position, the other of said members being movable by said float member into attractive moving relation to said one member and acting upon magnetic movement to close said valve, a valve member controlling said outlet, means operable to actuate said valve member, and means operable by said last-named means to move said one member out of said predetermined position and attractive relation to the said other of said members thereby to condition said valve for operation by said float member.

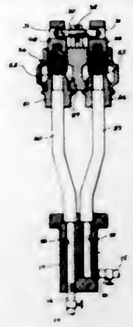
2,664,100

ANTISWEAT FLUSH TANK

John J. Oliverio, Clarksburg, W. Va.

Application July 7, 1950, Serial No. 172,441

1 Claim. (Cl. 137—411)



The combination with a toilet flush tank, of a cold water supply line extending into said tank, a hot water supply line extending into said tank, a housing mounted in said tank and to which both said supply lines are connected, said housing being provided internally with a mixing chamber, separate valves mounted in said housing for parallel reciprocating movement for controlling the flow of water from said lines into said mixing chamber, a cross member which is pivotally connected at one end to one of said valves and which is pivotally connected at its opposite end to the other of said valves to open both valves upon movement in one direction of said cross-member, a float in said tank, an arm which is mounted in said tank at one end for pivotal movement and which is connected intermediate its ends to said cross member between said valves to move said cross member upon pivotal movement of said arm, and a control linkage connected to said float to be actuated thereby and connected to the opposite end of said arm to rock said arm in a direction to open both said valves when the level of water in said tank is below the desired level.

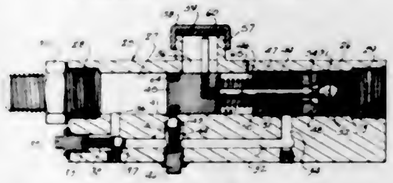
2,664,101

AUTOMATIC SHUTOFF VALVE FOR PRESSURE FLUID SYSTEMS

Saúl Betancourt Cano and Luis Lara Corchero, Havana, Cuba

Application November 29, 1950, Serial No. 198,095

1 Claim. (Cl. 137—460)



An automatic shutoff valve comprising a body having an elongated bore extending therethrough, a guide carried by said body and extending across said bore to define with the wall of said bore an inlet chamber adjacent one end of the bore and an outlet chamber adjacent the opposite end of said bore, said body having a by-pass passage therein which communicates adjacent one end with the inlet chamber and adjacent its opposite end with the outlet chamber, a check valve carried by the body and operatively connected with the by-pass passage to permit the flow of fluid therethrough from the inlet chamber to the outlet chamber while arresting the flow of fluid from the outlet chamber to the inlet chamber, said body having a fluid return passage therein which communicates with the outlet chamber and with the by-pass passage intermediate the ends thereof, a check valve carried by the body and associated with the fluid return passage to permit the flow of fluid from the outlet chamber to the inlet chamber but arrest the flow of fluid from the inlet chamber to the outlet chamber, a piston mounted in the outlet chamber for movement longitudinally therein across the mouth of the fluid return passage to arrest the flow of fluid from the outlet chamber to the inlet chamber, and yielding means within the bore and engaging the guide and the piston for holding said piston across the mouth of the fluid return passage and for yielding under the pressure of the piston when the pressure of the fluid in the outlet chamber attains a predetermined value to thereby uncover the mouth of the fluid return passage, and a valve in the inlet chamber and operatively connected to the piston for movement thereby to arrest flow of fluid through said inlet chamber when the pressure of the fluid in the outlet chamber falls below a predetermined value.

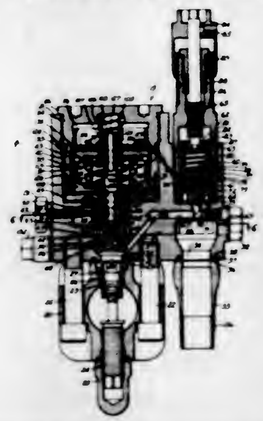
2,664,102

HYDRAULIC PUMPING SYSTEM AND BY-PASS VALVE THEREFOR

Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio

Application March 19, 1948, Serial No. 15,848

10 Claims. (Cl. 137—490)



1. In a bypass valve connectible between a high pressure line and a low pressure line, the combination of: main passage means having an inlet connectible to the high pressure line and an outlet connectible to the low pressure line; pressure-actuable main valve means including a main valve in said main passage means and including main piston means connected to said main valve for regulating flow through said main passage means from said inlet to said outlet, said main valve being movable toward its open position by pressure applied to one side of said main piston means; pilot passage means communicating with said main passage means between said inlet and said main valve and communicating with said one side of said main piston means; pressure-actuable pilot valve means including a pilot valve in said pilot passage means and including pilot piston means connected to said pilot valve for regulating the pressure applied to said one side of said main piston means, said pilot valve being movable toward its open position by pressure applied to one side of said pilot piston means; control passage means communicating with said main passage means between said inlet and said main valve and communicating with said one side of said pilot piston means; and pressure-actuable control valve means including a control valve in said control passage means for regulating the pressure applied to said one side of said pilot piston means, said control valve being movable toward its open position by a predetermined maximum pressure in said main passage means between said inlet and said main valve.

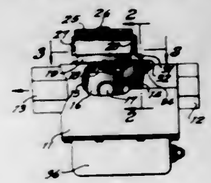
2,664,103

HANDLE CONNECTION FOR PLUG VALVES

William A. Ray, North Hollywood, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California

Application August 4, 1951, Serial No. 240,305

7 Claims. (Cl. 137—560)



1. In a control structure: a valve comprising an apertured plug rotatable between open and closed positions; an additional control member; handle means for manually rotating said plug and, when the plug is in a given flow-controlling position, rotatable to actuate said additional control member; a lost-motion connection between said handle means and said plug permitting relative rotation between the handle means and the plug in an amount such that, following actuation of the additional control member by the handle means, the handle means can be returned to its preceding position without effecting rotation of the plug; and means cooperating with said lost-motion connection and operated by rotation of the handle means relative to the structure for automatically reducing the amount of relative rotation which can occur between the handle means and the plug when the plug is in positions other than said given position and the handle means is rotated in either direction.

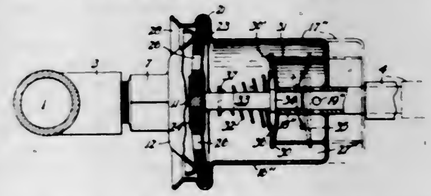
2,664,104

VALVED COUPLING FOR MILKING SYSTEM

Austin E. Anderson, Jamestown, N. Y.

Application January 29, 1949, Serial No. 73,494

16 Claims. (Cl. 137—614)



1. A stall cock coupling for milking machine installations, comprising a stall cock opening through a bell, a spring seated valve normally

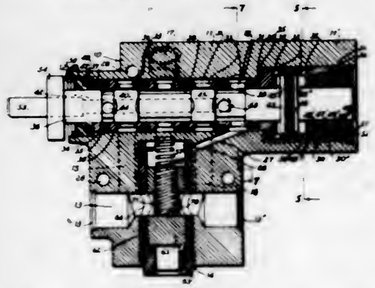
closing the stall cock, a hose coupler also opening through a bell and cooperable with the stall cock bell for connecting a milking machine to a pressure line, the two bells fitting airtight at their marginal portions, and a spring closed valve on the coupler serving to preclude fluid flow thereinto from the stall cock, said stall cock having a part operable to increase the spring force for the latter valve by and during placement of the coupler on the stall cock to condition such valve for operation.

2,664,105

CONTROL VALVE FOR HYDRAULIC SYSTEMS

Manuel Unterman, Far Rockaway, N. Y., assignor to Republic Aviation Corporation, near Farmingdale, N. Y., a corporation of Delaware

Application August 30, 1948, Serial No. 46,897
6 Claims. (Cl. 137—622)



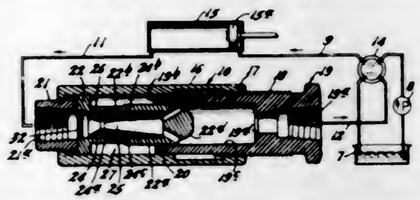
1. A fluid control valve assembly comprising the combination with a casing having a bore, a main fluid inlet communicating with the bore medially of its length, an auxiliary fluid inlet in approximate opposition to the main fluid inlet; operating ports connecting with and aligned transversely of the auxiliary fluid inlet, said operating ports independently connecting with the bore adjoining its ends, and a fluid return connected to one end of the main bore, of a valve mounted for reciprocation within the bore, said valve being provided with a closure to cooperate with each of the operating ports and close its associated port when said valve is in neutral position, said closures together defining a central valve chamber constantly in communication with the main fluid inlet and operating valve chambers on opposite sides of said central chamber one whereof always communicates with the fluid return, and said valve also having an internal passage connected at its ends to said operating chambers, means for moving the valve in either direction within the bore whereby the central chamber of the valve may be placed in communication with one of the operating ports and the operating chamber always communicating with the fluid return may be placed in communication with the other operating port upon the movement of the valve in one direction and upon the movement of the valve in the opposite direction the central chamber thereof may be placed in communication with the other operating port while the first operating port originally connected to the central chamber of the valve may be placed in communication with the operating chamber of the valve situate at the opposite end thereof to the operating chamber in constant communication with the fluid return to thereby establish communication with the latter through the internal passage of the valve, and a cut-off valve associated with the auxiliary fluid inlet and said operating ports operable upon the simultaneous admission of fluid under pressure to the main and auxiliary inlets to block direct communication between the operating ports.

2,664,106

STROKE-LIMITING CONTROL VALVE FOR HYDRAULIC MOTORS

Carlos B. Livers, North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application November 29, 1949, Serial No. 130,027
8 Claims. (Cl. 137—643)



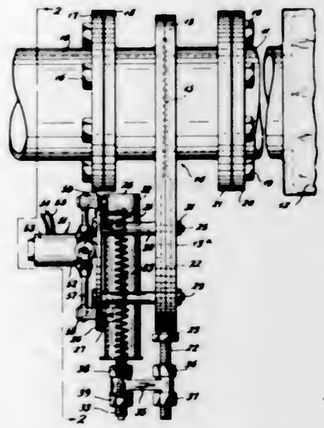
1. A valve of the type described comprising: a body having first and second line ports; a piston movable between limits within said body and defining with said body and expansible and contractable chamber on one side of said piston; cooperating main valve elements on said body and said piston respectively, for blocking line fluid flow between said line ports in one end position of said piston, and permitting such flow in other positions of said piston; means defining a main passage in series with said valve elements for conducting line fluid past said piston while producing a pressure drop across said piston to move it toward said one end position in response to fluid flow from said first line port to said second line port, and to move the piston away from said one end position in response to fluid flow in the opposite direction, said main passage means including a Venturi tube, and means defining a passage connecting the throat of the venturi to said chamber.

2,664,107

PILOT OPERATED TIME CONTROLLED GATE VALVE

Ralph A. Spengler, Cleveland, Ohio

Application June 26, 1948, Serial No. 35,333
6 Claims. (Cl. 137—657)



1. An apparatus of the character described comprising a valve chamber adapted to be connected in a conduit for fluid, a valve member slidably mounted in said chamber for movement transversely thereof to control the flow of fluid therethrough, a stationary cylinder having one end closed and the other end open, a piston within said cylinder, a piston rod rigidly connected to said valve member to operate the latter when said piston is moved, a member cooperating with the open end of said cylinder to guide the piston rod and provide a restricted opening about the latter for the passage of a fluid under pressure, means for simultaneously introducing fluid under pressure into said cylinder through two ports spaced longitudinally therealong, one of said ports being adjacent the closed end of the cylinder and the other port being intermediate the open and closed ends of the cylinder so that fluid under pressure is introduced on opposite sides of said piston when the latter is adjacent the closed end of the cylinder with the fluid introduced through the second-mentioned port cushioning the movement of the piston and valve member in the valve opening direction until the piston moves beyond the second-mentioned port whereupon the fluid pressure introduced through both ports operates upon the piston to open the said valve member, means normally biasing said valve member to closed position and said piston to a position adjacent the closed end of said cylinder, the force of said biasing means being insufficient to return said valve member and piston to the last-mentioned positions immediately after the application of fluid pressure to said ports is terminated but being sufficient to return the piston and valve member to their initial positions when a portion of the fluid trapped in said cylinder has escaped through the restricted opening in the guide member, whereby closing of said valve member is delayed a predetermined time interval after the supply of fluid pressure to said cylinder is terminated

central apertures in axial alignment with the opening in the second plate, a driving sleeve extending through said aligned opening in the diaphragm and support plate, a clamping nut engaged upon the outer projecting end of said driving sleeve in tight abutment against the support plate, said driving sleeve being internally threaded adjacent its outer end, an adjustment quill threadedly engaged within the driving sleeve for selected relative axial positionment thereto, said quill projecting at its outer end beyond the outer end of the driving sleeve, a lock nut engaged upon the projecting end of said adjustment quill in tight abutment against the end face of the driving sleeve, a draw bar extending through said driving sleeve and adjustment quill and projecting beyond the outer end of the adjustment quill said draw bar having a diametrally decreased portion providing a shoulder for abutment against the inner end face of the adjustment quill, a lock nut secured upon the outer end of the draw bar in tight surface abutment against the end face of the adjustment quill whereby the draw bar may be longitudinally adjusted with relation to the diaphragm by adjusting the relative positions of the driving sleeve and the adjustment quill, a source of fluid under pressure, and means for admitting fluid into the enclosed chamber for flexing the diaphragm.

2,664,109

FLUID CIRCUIT RESISTOR CONSTRUCTION

Raymond F. Iager, Alliance, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Application September 24, 1948, Serial No. 51,022
10 Claims. (Cl. 138—42)



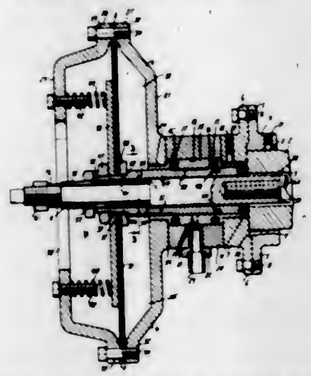
1. In a tubular fluid flow resistor normally disposed in a fluid circuit, a resistor housing, a readily removable tubular cartridge construction having a slidable fit within said housing, a plurality of separately replaceable fluid flow resistance elements disposed in flow succession and slidably fitted within said cartridge with all of the resistance elements normally simultaneously subject to the fluid flow of said circuit, means associated with the housing for normally maintaining said cartridge in its operative position relative to said circuit, and a pressure sealing device having closure mechanism to afford a pressure seal for an access opening in the housing and providing for the ready removal of said cartridge for adjustment of its flow resistance capacity by the addition or substraction of a flow resistance element.

2,664,108

FLUID ACTUATED DIAPHRAGM FOR COLLET CHUCKS

William G. von Weise, St. Louis, Mo.

Application February 14, 1949, Serial No. 76,268
9 Claims. (Cl. 137—784)



1. A collet chuck actuator comprising a first plate member, a second plate member having a central opening, a flexible diaphragm disposed between said plate members and held in engagement with said plate members at the periphery of said plate members to thereby provide an enclosed chamber and an open chamber, a rigid support plate mounted on the outwardly presented face of the diaphragm, said diaphragm and support plate having aligned

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2,664,110

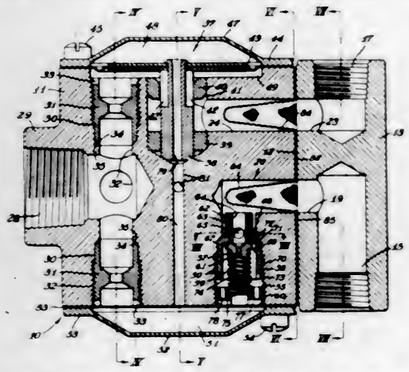
FLOW CONTROLLING APPARATUS

T Cyril Noon, Bainbridge Township, Geauga County, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application May 23, 1950, Serial No. 163,686
4 Claims. (Cl. 138—45)

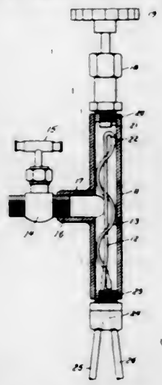
1. In combination in an automatically variable fluid flow controlling orifice construction, a pilot member having an internal shoulder and

a cylindrical pilot portion upstream from said shoulder, a tubular valve member having an elongated cylindrical portion reciprocably slidably engaged in said cylindrical pilot portion, said valve member having a shoulder opposing said first mentioned shoulder in stopping relation, and means normally biasing said valve member for engagement of the shoulder thereon against said first mentioned shoulder, said valve member having an orifice passage longitudinally therethrough internally, said passage being of re-



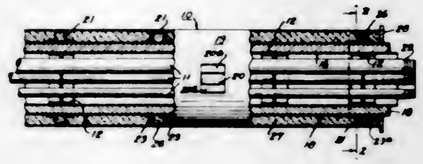
stricted metering cross sectional flow area and having its upstream end disposed downstream relative to the shoulder on the valve member, said cylindrical portion of the valve member having a transverse orifice therein spaced upstream from the shoulder on the valve member, said valve member being shiftable in opposition to said biasing means responsive to upstream fluid pressure to move said cylindrical tubular portion downstream to carry said transverse orifice beyond said first mentioned shoulder.

2,664,111
FLUID FLOW CONTROL
John J. Piros, Homewood, Ill., assignor, by mesne assignments, to Sinclair Research Laboratories Inc., Harvey, Ill., a corporation of Delaware
Application January 19, 1949, Serial No. 71,588
1 Claim. (Cl. 138—46)



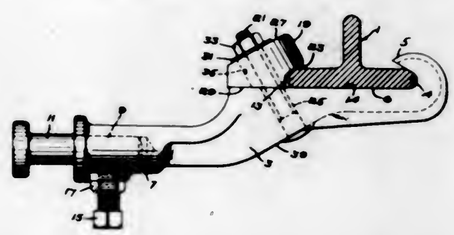
A control valve for regulating flow rates of fluids under micro conditions which comprises an elongated compressible conduit of small cross-sectional area enclosed within a chamber filled with liquid mercury, said conduit extending for the length of the chamber in a U-shape, a valve located on the side of the chamber for filling the chamber with liquid mercury, and a pressure adjusting screw element which screws down into said liquid-filled chamber.

2,664,112
SPACER PLATE FOR PIPES IN INSULATED CONDUITS
Alexander H. Isenberg, Woodside, Calif.
Application February 7, 1949, Serial No. 75,027
3 Claims. (Cl. 138—64)



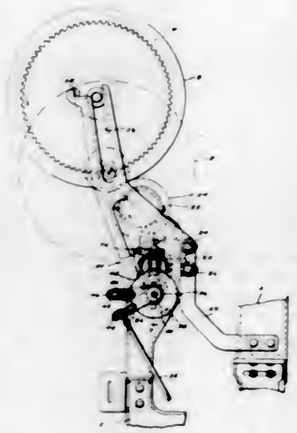
1. An insulated pipe conduit unit, including a relatively thin tubular outer forming casing, a relatively thin tubular inner forming casing within the outer forming casing and spaced therefrom, thermal insulation material circumferentially of said inner casing around the exterior thereof, spacer means between said inner and outer casings and circumferentially of the insulating material, and a spacer plate support within the inner casing comprising an apertured central disc portion transversely of the inner casing for receiving therethrough and supporting a plurality of conveyor pipes, said disc having a relatively wide rim circumferentially thereof and in substantially parallel contact with the inner casing, a moisture-impervious asphaltic thermoplastic body between the outer forming casing and the layer of thermal insulating material, and a plurality of relatively heavy conveyor pipes extending slidably through the apertures in the disc of the supporting plate, said relatively thin inner and outer casings being of bendable sheet metal and the conveyor pipes being substantially rigid.

2,664,113
LETOFF DRIVE ROD ARM
Sherwood O. Dodge, Medford, Mass., assignor to H. F. Livermore Corporation, Allston, Mass., a corporation of Delaware
Application June 14, 1951, Serial No. 231,468
10 Claims. (Cl. 139—100)



1. In a let-off motion for a loom, the combination with the lay sword thereof, of a let-off actuating arm having a hooked integral end portion, a lug mounted on the arm, and a bolt extending obliquely through the lug urging the latter along the arm slidably toward the hooked end securing the arm to the lay sword as the bolt is tightened.

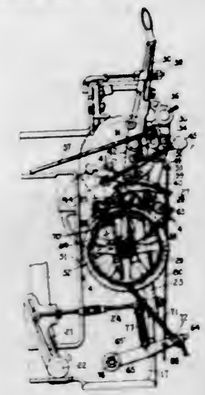
2,664,114
AUXILIARY BEAM LETOFF MECHANISM FOR LOOMS
John A. Bradshaw, Greenville, S. C., assignor to J. P. Stevens & Co., Inc., a corporation of Delaware
Application January 4, 1952, Serial No. 264,931
5 Claims. (Cl. 139—108)



1. An auxiliary beam letoff mechanism for slack feeding of supplementary warp ends in a loom, said letoff mechanism comprising an auxiliary frame structure adapted for attachment to a loom frame, a driving drum carried by said frame structure, guideways formed in said frame structure for positioning a warp beam to rest a warp yarn package wound thereon in peripheral driving contact on said driving drum, said guideways being arranged to extend from their remote ends in a path diverging from a radial direction with respect to said driving drum whereby the lateral reaction force from said driving drum against the opposing face of said guideways increases upon decrease in diameter of said warp yarn package and thereby compensates for loss in weight of said package on said driving drum during unwinding, and means for rotating said driving drum from the motion of a main operating element of said loom at a speed providing a degree of slack feeding of warp ends from said auxiliary beam as desired in relation to the warp ends fed from a main beam to said loom.

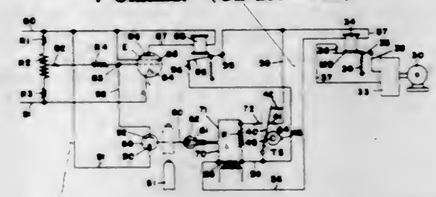
2,664,115
FABRIC LET BACK MEANS FOR LOOMS
Hardy B. Gosnell, Greenville, S. C.
Application September 22, 1951, Serial No. 247,860
13 Claims. (Cl. 139—313)

1. For a loom having a fabric take up means including a roll and means to drive said roll including a gear train and a ratchet wheel, a feed pawl and a stop pawl for said ratchet wheel, and a loom knock off means including a shipper lever, a fabric let back means which comprises means to disengage said pawls from the ratchet wheel as the loom is knocked off, an indicator carried by the ratchet wheel past which the wheel may move in its rotation incidental to taking up fabric, but further adapted to be carried around with the wheel when the latter rotates reversely, and means including a foot pedal under control of the loom operator for re-



setting the ratchet wheel to a predetermined position through said indicator.

2,664,116
PHOTOELECTRICALLY CONTROLLED LOOM PROTECTION
Alexander C. Krukonis, Auburn, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Continuation of abandoned application Serial No. 227,841, May 23, 1951. This application August 16, 1952, Serial No. 304,776
7 Claims. (Cl. 139—341)

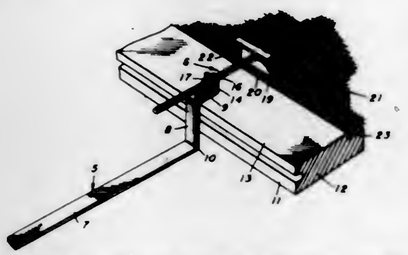


1. In protection means for a loom operating with a shuttle which when running on time passes a given point along the path thereof at a given time in the loom cycle, loom governing means capable of effecting continued loom operation or stoppage of the loom, electronic circuit means controlling the governing means including a photoelectric cell, periodically acting means tending to increase the illumination of said photoelectric cell at said time but prevented from doing so by the shuttle if the latter is running on time, said electronic circuit means being effective upon an increase in the illumination of said photoelectric cell to cause the governing means to stop the loom.

2,664,117
ADJUSTABLE WIRE STRETCHING AND SETTING IMPLEMENT
John A. Maier, Lincolnville, Kans.
Application July 25, 1949, Serial No. 106,643
1 Claim. (Cl. 140—109)

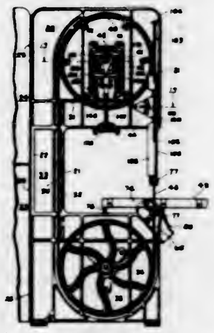
A screen wire pulling, stretching and setting implement adapted to facilitate tacking an edge of a piece of screen wire to a frame comprising a one-piece jaw unit embodying a flat vertical plate provided along its normal lower edge with wire engaging and holding teeth and provided along its normal upper edge with a laterally bent rein-

forcing and thumb piece forming flange which may be used to exert pressure and embed the teeth in said frame, and a screw threaded rod rigidly secured at one end to an intermediate portion of one side of said plate, said flange overlying the secured end portion of said rod, and a lever unit having handle means on a plane below the plane of said teeth, having an abutment at right angles to said rod and disposed in spaced parallelism in respect to said



vertical plate, having a stop abutment attached to and at right angles to said first named abutment and adapted to rest upon the surface of said frame, said stop abutment terminating in a right angularly disposed ear, said ear being apertured, said rod having one end passing through said aperture, and assembling and clamping nuts mounted on the rod on opposite sides of and cooperable with said ear and serving to adjustably interconnect the ear and rod.

2,664,118
PULLEY MOUNTING FOR SAWING EQUIPMENT OF THE BANDSAW TYPE
Will Krumbach, Burlington, Wis.
Application November 29, 1946, Serial No. 712,977
2 Claims. (Cl. 143—31)



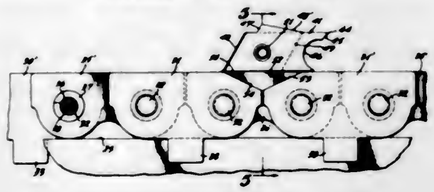
1. The combination with a band saw housing having a hollow standard and lower and upper wheel housing extensions, of a driving wheel mounted upon a shaft carried by an adjustable bearing plate in the lower extension, a supporting and tensioning wheel mounted in the upper extension, an endless saw band carried by said wheels with its downwardly moving portion exposed between said extensions, a mounting plate having a three-point connection with the upper housing extension and adapted to be clamped thereto in various positions of rocking adjustment, a slide vertically adjustable on the mounting plate, a bracket pivotally connected with the slide for swinging movement in a plane normal thereto, and a stud shaft carried by the bracket and upon which the upper wheel is journaled.

2,664,119
BUSH SAW ATTACHMENT FOR TRACTORS
Carl L. Spearman, Westminster, S. C., assignor of one-half to Arthur Brown, Walhalla, S. C.
Application July 6, 1951, Serial No. 235,460
3 Claims. (Cl. 143—43)



2. A bush saw attachment for an agricultural tractor having front and rear axles, a power take off connection on said rear axle and an implement lift arm adjacent said rear axle comprising an elongated tubular structure adapted to extend longitudinally of the associated tractor below the tractor axles and including a rear portion adapted to be rigidly secured to the associated tractor rear axle and a front portion pivotally connected at its rear end to the front end of said rear portion and adapted to extend from the front end of said rear portion forwardly of the associated tractor front axle, a gear housing mounted on the front end of said front portion, a saw arbor journaled in said housing, a saw mounted on said arbor outside of said housing, a drive shaft extending through said tubular structure and having a universal joint connection therein at the location of the pivotal connection between the rear and front portions of said tubular structure, gear means in said housing drivingly connecting said drive shaft to said saw arbor, means on said drive shaft at the rear end of the rear portion of said tubular structure for drivingly connecting an associated tractor power take off connection to said drive shaft, a sleeve adapted to be mounted in vertical position on an associated tractor front axle, a stem slidably received in said sleeve and having a fork at its lower end, a collar pivotally mounted in said fork and slidably receiving the front portion of said tubular structure, and manually operated means connected between said sleeve and said fork for raising and lowering the front end of said tubular structure and said saw.

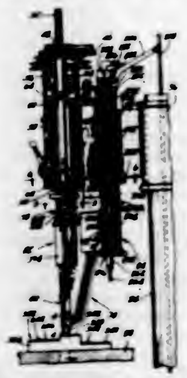
2,664,120
SAW CHAIN
Paul Y. Hinkley, Los Angeles, Calif., assignor to C & H Development Company, South Gate, Calif., a partnership
Application September 13, 1948, Serial No. 49,041
4 Claims. (Cl. 143—135)



1. A chain saw comprising a series of link members riveted one to another adapted to flex in a plane transverse to the plane of the axes of the rivets, said link members comprising a set of double plate members and a set of single plate

members confined between adjoining double plate members, the members of one set alternating with members of the other set, anchor lugs on the members of one of said sets extending outwardly and each anchor lug having a tooth-engaging face extending obliquely forwardly relative to the direction of travel and outwardly, the link member upon which each anchor lug is mounted having a forwardly extending tooth-receiving face at the base of the anchor lug parallel to the direction of travel of the link member, removable teeth each having a transverse forwardly extending cutting edge and a pair of side cutters integral therewith extending rearwardly of the cutting edge, an oblique rearwardly and inwardly extending face on each tooth complementary to and adapted to lie against the respective tooth-engaging face of the lug in position wherein the bottom of the tooth is positioned on the respective tooth-receiving face of said respective member, and a relatively soft non-load bearing transverse rivet connection between each tooth and the respective anchor lug.

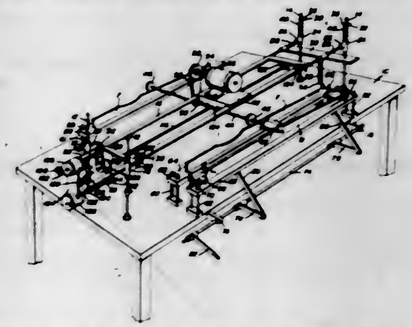
2,664,121
POWER SCREW DRIVER
Horace Francis Travis, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application February 17, 1951, Serial No. 211,505
20 Claims. (Cl. 144—32)



5. A power fastener driver comprising a support, a rectilineally shiftable fastener driving member carried by said support, a fastener carrier shiftable with and relative to said driving member, said fastener carrier including fastener holding means movable between fastener carrying and fastener releasing positions, means for delivering fasteners to said carrier, means for reciprocating said driving member to engage a fastener in said carrier, a control member shiftably carried by said support and frictionally coupled to said fastener carrier, and means extending below the fastener holding means of said control member to engage a work surface to limit movement of said control member toward said work surface, and means effective upon such engagement to render said control member effective to move said fastener holding means to fastener releasing position.

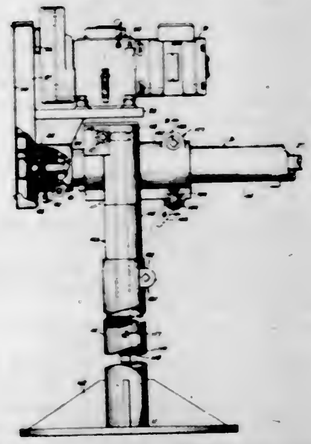
2,664,122
PATTERN LATHE
Matthew E. Allen, Sr., Asheville, N. C.
Application May 8, 1952, Serial No. 286,691
4 Claims. (Cl. 144—144)

1. A pattern lathe comprising a support, uprights carried by the support, an elongated horizontally disposed vertically slidable frame on the uprights, a carriage slidably carried by and movable longitudinally of the frame, a power driven shaft rotatably supported on the carriage and projecting laterally from the frame, a form engaging element on the shaft, a cutter also on the shaft, a vertically swingable member centrally pivotally attached to one end of the frame, oppositely rotating upper and lower shafts on the



ends of the member, belts connecting said upper and lower shafts to said power driven shaft, one of said belts being tensioned when the member is vertically disposed to rotate the power driven shaft in one direction, and means connected to the member for moving the same to a vertically inclined position to loosen said one of said belts and tension the other of said belts in order to rotate the power driven shaft in an opposite direction.

2,664,123
WORK FEED DEVICE FOR WOODWORKING TOOLS
George O. Arvidson, Rockford, Ill.
Application March 25, 1950, Serial No. 151,977
5 Claims. (Cl. 144—242)



1. In a saw feed mechanism for feeding a panel across a table to a saw blade, the combination of a vertical column, means for adjusting the length of said column, a horizontal tubular arm, means for mounting said arm on said column to have an end of the arm on each side of the column, means for moving said arm bodily transversely of the column, a shaft extending through said arm, spaced drive sprockets mounted on one end of said shaft, stub shafts spaced below and at opposite sides of said drive sprockets, bearing

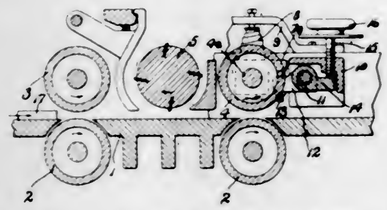
members attached to said arm for supporting said stub shafts, spaced idler sprockets mounted on said stub shafts, spaced endless chains supported by said drive and idler sprockets, friction members attached to said endless chains, guide means between said idler sprockets for guiding said friction members along a preselected path into engagement with the panel, a motor mounted on the opposite end of said arm, a speed reduction unit driven by said motor and means for connecting said speed reduction unit with the opposite end of the shaft to drive said endless chains to progressively advance the friction members on said panel past the saw blade to feed the panel thereto.

2,664,124

MICROCONTROL FOR TOP OUT-FEED PLANER ROLL

Walter Veersma, Holland, Mich., assignor to Buss Machine Works, Holland, Mich., a corporation of Michigan

Application November 13, 1952, Serial No. 320,314
4 Claims. (Cl. 144—247)



1. In a planer having an out-feed roller journaled for rotation in journal boxes, one at each end of said roller, with springs acting on said boxes to press them in a downward direction, the improvement comprising, a fixed bar spaced from and paralleling said roller, a rock shaft mounted on said bar, parallel thereto, an arm adjacent each end of the rock shaft extending, one toward each journal box, and engaging therewith to simultaneously lift each box on rocking the the rock shaft in one direction, and means mounted on the bar operatively connected with the rock shaft to rock it in said one direction or release it to rock in the opposite direction under force of said springs, and to maintain said rock shaft in selected positions.

2,664,125

GAUGE AND EJECTOR FOR HEEL SHAPING MACHINES

Edmund C. Butler, St. Louis, Mo., assignor of one-half to Universal Wood Heel Co., St. Louis, Mo., a corporation of Missouri

Application October 13, 1950, Serial No. 189,994
3 Claims. (Cl. 144—278)

1. In combination with a heel shaping machine having a lower jaw frame, a lower jaw carried by said frame, a standard adjustably secured to said frame, an upper jaw frame pivotally mounted on said standard, an upper jaw carried by said upper jaw frame in opposition to said lower jaw, and a handle pivotally mounted on said standard and engaging said upper jaw frame to releasably lock said upper jaw in position relative to said lower jaw to clamp a heel blank between said jaws and to release said upper jaw frame to free a heel from engagement by said jaws, a bar pivotally mounted intermediate its length on said standard and having a longitudinally extending slot near one end, a pin on said handle received in said slot to impart rocking movement to said bar when said handle is moved to move said upper jaw relative to said lower jaw, said bar, said handle and said upper jaw frame being movable about substantially parallel axes, a laterally projecting bracket on said bar near the other end of the latter, an arm pivotally mounted near one end on said bracket for rocking movement about an axis substantially at right angles to the axis of rocking movement of said bar and extending substantially perpendicularly of said bar from said bracket toward said lower jaw, a flat head on said one end and a gauge tip on the other end of said arm, spring means acting between said bar and said arm resiliently urging said gauge tip away from said jaws, adjustable stop means acting between said bar and said arm limiting spring induced movement of said arm to a position relative to said bar at which said gauge tip is properly located relative to said jaws to accurately



position a heel blank between the jaws as said upper jaw is moved toward said lower jaw, a second bar rigidly secured at one end to said standard and having a socket at its other end, a roller carriage pivotally mounted in said socket for pivotal movement about an axis substantially perpendicular to the axis of movement of the first mentioned bar, and a roller carried by said carriage in the path of the adjacent edge of said head, said socket limiting pivotal movement of said roller carriage to an angle of approximately 90 degrees so that said roller will move said head in a direction to force said gauge tip toward said jaws and eject a heel from between the latter as said upper jaw is released by said handle for movement away from said lower jaw but will ride over said head without moving the latter when said handle is moved to force said upper jaw toward said lower jaw to clamp a heel blank between said jaws.

2,664,126

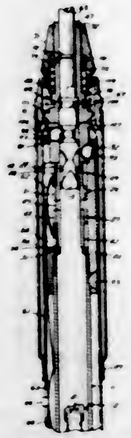
RATCHET SPIRAL SCREW DRIVER

Judson H. Mansfield and Edwin C. Swanson, Rockford, Ill., assignors to Greenlee Bros. & Co., Rockford, Ill., a corporation of Illinois

Application May 15, 1950, Serial No. 161,946
5 Claims. (Cl. 145—54)

1. In a spiral screw driver, the combination of a body having an axially extending passageway, a chuck, a spindle received in said passageway and shaped to support said chuck, means for mounting said spindle to have said chuck movable between a retracted position in which the chuck is adjacent the body and a position in which the chuck is spaced axially of the body, telescoping tubular members one of which is fixed to said body and the other of which is secured to said chuck to be movable in unison therewith, locking means for said spindle having a rotatable actuating member movable between release and locking positions, said locking means when

said actuating member is in the release position permitting free axial movement of the spindle and when said actuating member is in the locking position preventing axial movement of said spindle to hold said chuck in its retracted position and clutch means acting between one of said



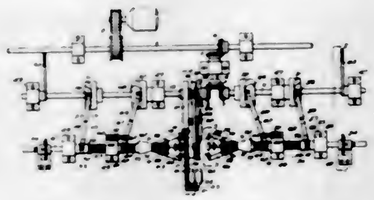
tubular members and the rotatable actuating member operable upon a preselected endwise pressure applied between the tubular members and relative rotational movement therebetween to effect movement of the actuating member between its locking and release positions.

2,664,127

PEACH PITTER

Joseph Perrelli, Richmond, Calif., assignor to Filper Corporation, a corporation of California

Application November 5, 1951, Serial No. 254,927
10 Claims. (Cl. 146—28)



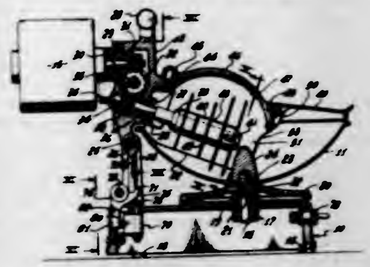
7. A pitter for clingstone peaches comprising: a substantially coplanar cutter for making a planar cut in the flesh of a peach, a pair of pit gripping means supported for movement of one relative to the other in the plane of the cut in the peach, means for moving said pit gripping means relatively and into and for holding said pit means in firm engagement with the pit, a pair of peach gripping means disposed on opposite sides of the plane of said cutter, means for moving said peach gripping means into firm engagement with the periphery of substantially the maximum diameter of the peach on either side of the cut, said pit gripping means and said peach gripping means being supported for rotation of one relative to the other about an axis normal to said plane, supporting means so supporting said pit gripping means and said peach gripping means for said relative rotation, and means for rotating the pair of said pit gripping means and said pair of peach gripping means relative to each other.

2,664,128

FOOD CHOPPER

John Braunwalder, Glendale, and Elsie Meyer, Los Angeles, Calif.; said Braunwalder assignor to said Meyer

Application February 27, 1950, Serial No. 146,494
4 Claims. (Cl. 146—67)



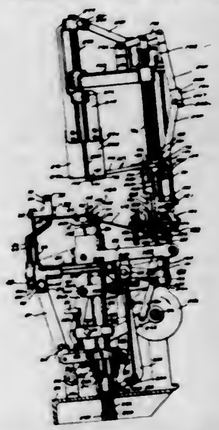
1. In a household food chopping device, the combination of: a base; a removable bowl rotatably mounted on said base; a chopping blade assembly pivotally carried by the base and extending radially and downwardly into the bowl toward the center thereof; a cover for the bowl including a blade guard portion, said blade guard portion including an internal curved extension wall extending into the bowl at one side of the blade assembly and having a bottom edge lying in a plane virtually parallel to the axis of the blade assembly, and spaced in proximity to the internal surface of the bowl, said extension wall terminating in a curved, concave edge adjacent to the center of the bowl for concentrating food particles delivered by the chopping blade assembly; and means for positively rotating said bowl for forming a concentrated food mass against said wall and for moving said mass along and beyond the extension wall.

2,664,129

FRUIT FEEDING, IMPALING, PEELING, TRIMMING, CELLING, CORING, AND SPLITTING APPARATUS

Willard B. Coons, Santa Clara, Calif.

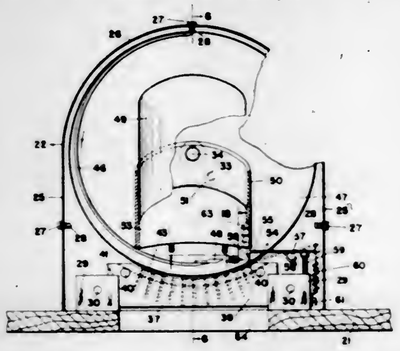
Application June 12, 1950, Serial No. 167,502
15 Claims. (Cl. 146—53)



3. Arrangement for receiving and holding a fruit such as a pear, an apple or the like in its natural position with its calyx end down and its main axis extending vertically, including in combination a substantially horizontally positioned

fruit-receiving plate, an impaling implement disposed a limited distance beyond the rear edge of said plate and comprising a vertically positioned stem, a plurality of arcuate fruit impaling fins supported from the upper end of said stem along the circumference thereof said fins having an external diameter transversely of the stem axis substantially less than that of a fruit to be impaled thereby, said fins being formed and arranged to leave an internal space of a size and conformation adapted to accommodate the seed cell of the particular type of fruit for which the mechanism is designed, means operable to carry a fruit slidably along and beyond said plate with its calyx end supported upon said plate until the main axis of the fruit is vertically aligned with the axis of said implement, and means operable to raise said implement from a retracted position wherein said fins are disposed below the level of said plate to an elevated position wherein said fins have penetrated axially of said fruit and encircled the seed cell of a fruit held beyond the end of said plate in the above defined position.

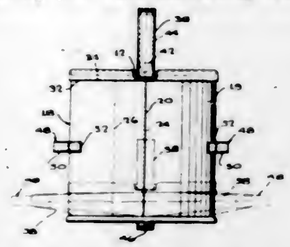
2,664,130
VEGETABLE SLICING MACHINE
Clifford William Kubon, Aitkin, Minn.
Application March 27, 1950, Serial No. 155,172
2 Claims. (Cl. 146—75)



1. In a device of the class described, a gang of horizontally disposed cutting knives, a slicing knife-equipped cam for cutting a slice from a potato on the gang of knives, said cam being inverted to turn on a horizontal axis, means for turning the cam, a stop member for preventing a slice cut by the slicing knife from a potato on the gang of cutting knives from following the slicing knife, said top member comprising a plate intermediately pivoted to tilt about a horizontal axis that extends transversely of the cam and having a flange on its end facing the cam as the same is moving over the gang of cutting knives, a stop under the opposite end portion of the plate from its flange, and a spring yieldingly holding the plate on the stop, said stop positioning the plate with its flange just below the path of movement of the slicing knife, and in the path of movement of the cam whereby the cam engages the flange and tilts the plate and moves the flange out of its path of movement.

2,664,131
COLLAPSIBLE BUCKET
Benjamin G. Miller, Santa Fe, N. Mex.
Application December 7, 1951, Serial No. 260,394
2 Claims. (Cl. 150—49)

1. A collapsible bucket comprising: a generally cylindrical, flexible body closed at its lower end and open at its upper end; annular, rigidly formed, end frames secured to the respective ends of the body, said end frames being aligned longitudinally of the body and extending circumferentially of said ends to stiffen the same; and diametrically opposite side handles secured to the body at a location disposed medially between said ends, each of the handles being formed from a length of flexible material folded upon itself and having its ends secured to and extending in opposite directions along the side wall of the body along a line parallel to the end frames, the intermediate portions of said lengths of material providing pull tabs extending outwardly in



opposite directions from the body along a line normal to a line drawn between the centers of the end frames, said pull tabs being adapted to be pulled outwardly of the body in opposite directions along said second-named line, to provide means effective to draw way from one another diametrically opposite side wall portions of the body disposed contiguous to the respective handles, simultaneously with movement toward one another of other diametrically opposite side wall portions intervening between the first-named side wall portions, thus to collapse the side wall of the body and effect movement of said stiffened ends longitudinally of the body toward each other into closely spaced, superposed relation.

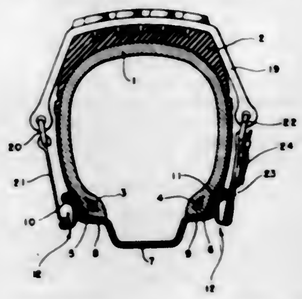
2,664,132
FASTENING COLLAR FOR ATTACHING A CYLINDRICAL ELEMENT TO A PERFORATED PLATE
Robert J. Leverte, Elment, N. Y., assignor to Samuel C. Miller, New York, N. Y.; Rosalie E. Miller, executrix of said Samuel C. Miller, deceased
Application March 30, 1950, Serial No. 152,929
2 Claims. (Cl. 151—41.74)



2. A fastening collar for attachment of elongate elements from the front face of a frame plate through a hole in the plate, comprising a substantially flat main body member having an opening through which a portion of an elongate element may pass, and a plurality of resilient fingers secured to said main body member and spaced about the perimeter of said opening and extending toward the center of said opening, the ends of said fingers being formed with angularly extending end projections, the sides of said fingers having angularly extending side projections projecting oppositely from said end projections, said end projections being adapted to engage an elongate element and said side projections being adapted to clamp the frame between

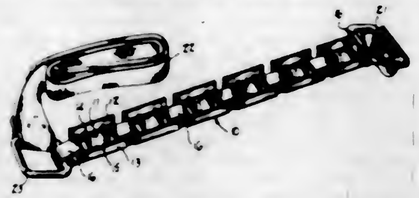
them and the main body member upon the insertion of the elongate element into the opening with the collar positioned over the frame hole

2,664,133
ANTISKID CHAIN ATTACHMENT
Ernst Eger, Los Angeles, Calif., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application May 21, 1949, Serial No. 94,653
2 Claims. (Cl. 152—236)



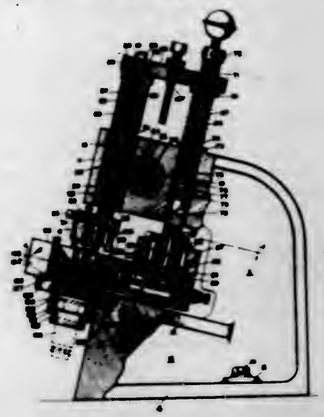
1. In combination with a pneumatic tire and a rim having spaced flanges formed with outwardly extending lips that lie alongside the tire walls, and anti-skid member for the tire, anchoring means for said member comprising an integral clip formed of sheet metal having a reversely bent part to conform to the cross-section curvature of a rim flange and to embrace the inner and outer faces of such flange and having a perforated wall positioned to be gripped between said flange and the tire bead with the tire wall bulging into such perforation, said clip also having an exposed protruding portion spaced from the flange lip, and means for attaching the anti-skid member to said protruding portion.

2,664,134
ANTISKID CROSS CHAIN
Irlin Botnick, Cleveland, Ohio, assignor to Snow-Master, Inc., Cleveland, Ohio
Application November 26, 1951, Serial No. 258,143
1 Claim. (Cl. 152—244)



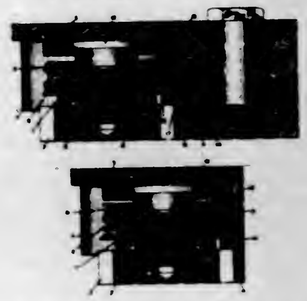
A non-skid cross chain of the character set forth, comprising in combination, a plurality of similar tread members, each of said members being formed from a blank of rectangular configuration, the blank being shaped to provide a flat bottom portion having a pair of parallel side flanges and two longitudinally spaced square slots therebetween, the said slots being proximate the open ends of the said bottom portion; a pair of transverse cleats positioned parallel to one another at the inner edges of said slots within the confines of said side flanges; and flattened link members of rectangular cross-section passing through the slots of adjacent tread members and disposed within the confines of said side flanges.

2,664,135
SPARK PLUG GAPPING MACHINE
Lewis M. Oden, Sr., Norfolk, Va.
Application November 21, 1950, Serial No. 196,919
5 Claims. (Cl. 153—48)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A gap setting tool for spark plugs having shell and central electrodes comprising a base, a holder for a spark plug adjustably mounted on said base, a reciprocating plunger movably mounted on said base, at least one feeler gauge attached to said plunger, an operating handle geared to said plunger, an electrode bending ram reciprocatingly mounted on said base, hydraulic means mounted on said base for actuating said ram, and a hydraulic piston coacting with said plunger for providing pressure to said hydraulic means.

2,664,136
METHOD AND APPARATUS FOR FORMING THREADED ARTICLES
Clarence L. Hornberger, Manheim Township, Lancaster County, and August Schuh, Lancaster, Pa., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application September 28, 1950, Serial No. 187,266
6 Claims. (Cl. 153—71)



1. In a device for rolling a thread on metal articles, a pair of cooperating threading tools and a mandrel for supporting the article to be threaded in such position that the cooperating tools engage the portion of the article to be threaded, one of said cooperating threading tools being carried by the mandrel, said mandrel-carried tool being of a diameter less than the diameter of the article to be threaded and having a thread of the same pitch but of a different helix angle from the thread on the other threading tool, said man-

drel-supported tool being keyed to the mandrel for rotation therewith and being free to move in a direction parallel to the longitudinal axis of the mandrel.

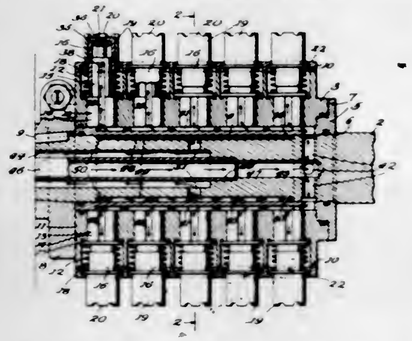
6. In a method of threading metal articles, the steps comprising placing the article to be threaded over an axially movable internal spirally threaded threading tool which has a diameter substantially less than the interior diameter of the article to be threaded in such manner that only a minor portion of the inner circumference of the article is in engagement with the internal threading tool, bringing the internal threading tool into juxtaposition with an external threading tool having threads of different helix angles with the portion of the article to be threaded positioned between the threading members and producing relative rotary movement between the threading tools, a resultant rotation of the article, and movement of the internal threading member relative to said external threading member axially in a plane parallel with the axis of the external threading member.

2,664,137

MACHINE FOR APPLYING PROTECTIVE SPOTS TO THE PADS OF CROWN CAPS

Carl E. Magnus, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application August 11, 1950, Serial No. 178,909
6 Claims. (Cl. 154—1.5)



1. A spotting machine comprising a spot forming device, a carrier having a head and means cooperating therewith for forming a retaining pocket for receiving the formed spot and applying the spot to the sealing pad of a cap, said carrier having a chamber within the head and passages leading to and from said chamber, means for continuously circulating a heating liquid through the passages into and out of said chamber for transferring heat to the head and the spot carried thereby, and means for heating the liquid to a temperature sufficient to render adhesive carried by the spot tacky when pressed against the pad.

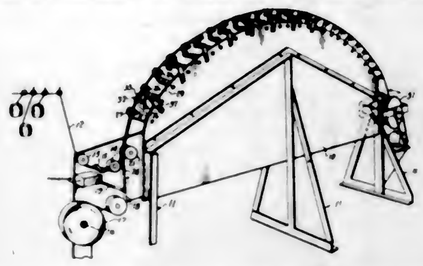
2,664,138

APPARATUS FOR FABRICATING STRANDS, CORDS, TUBES, AND THE LIKE

Games Slayter and Ed Fletcher, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Application September 14, 1951, Serial No. 246,687
11 Claims. (Cl. 154—1.8)

1. Apparatus for the fabrication of a continuous strand, cord, rod, tube or the like that comprises, in combination, means for longitudinally moving a strip of sheet material along a path and a plurality of progressively modified forming means located along one side of the path of movement of said strip for turning over only one edge of said strip upon itself and for rolling said strip transversely as it moves longitudinally.

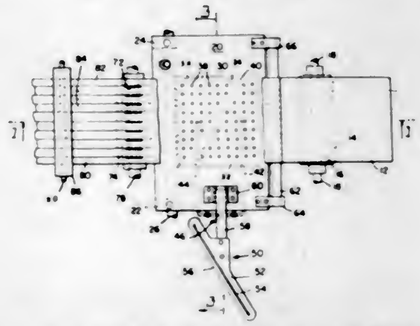


2,664,139

PRODUCTION OF MAGNETIC SOUND TAPE

William C. Speed, Riverside, and James J. Dwyer, Stamford, Conn., assignors to Audio Devices, Inc., New York, N. Y., a corporation of New York

Application December 21, 1950, Serial No. 201,987
20 Claims. (Cl. 154—42.3)



1. In the method of producing sound-recording and sound-reproducing magnetic tape by cutting a relatively long and narrow tape base coated on one side only with finely divided magnetic material into a plurality of pieces of tape as it moves in a fixed path of travel from a charging zone through a cutting zone and the cut pieces of tape move at the same time to a winding zone where they are wound simultaneously into separate rolls, the improvement which comprises stopping the forward movement of the cut pieces of tape and of the tape base when a portion of the tape base to be spliced to a second piece of tape base reaches a splicing zone in the path of travel in advance of the cutting zone, overlapping the ends of the two pieces of tape base to be spliced, cutting the overlapped ends of the two pieces of tape base transversely to provide two new ends with adjacent lines of cut in abuttable relation to each other, attaching an adhesive band on the two new ends of the tape base across their adjacent lines of cut to keep them in abutment, and resuming the forward movement of the cut pieces of tape and of the spliced pieces of tape base.

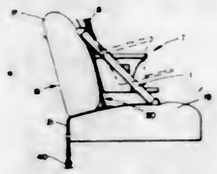
11. In apparatus for producing sound-recording and sound-reproducing magnetic tape by cutting a relatively long and narrow tape base coated solely on one side with finely divided magnetic material into a plurality of pieces of the tape as it moves in a predetermined path of travel from a charging device through a cutting device and the cut pieces of tape move at the same time to a winding zone where they are wound simultaneously into separate rolls, the improvement which comprises a splicing device disposed in the path of travel between the charging device and the cutting device, the splicing device including a perforated platform and a suction box associated therewith so that the tape base may pass across the platform and tape base on the perforated platform may be placed under suction.

2,664,140

CHILD'S AUTOMOBILE SEAT

James H. Kindelberger, Pacific Palisades, Calif.

Application August 25, 1952, Serial No. 306,168
6 Claims. (Cl. 155—11)



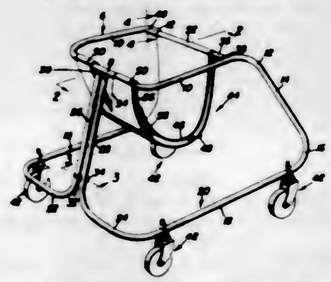
1. A child's seat comprising a frame; a chair hingedly connected to said frame at the upper end thereof; stop means on said chair for limiting downward movement thereof with respect to said frame, said frame being adapted to rest against the back and bottom portions of an automobile seat; and means for connecting said frame to said automobile whereby upon sudden stops of an automobile the chair will swing forwardly and upwardly.

2,664,141

BABY WALKER WITH REMOVABLE SLING

Elvin M. Musselman, Lancaster, Pa.

Application March 15, 1950, Serial No. 149,695
3 Claims. (Cl. 155—24)



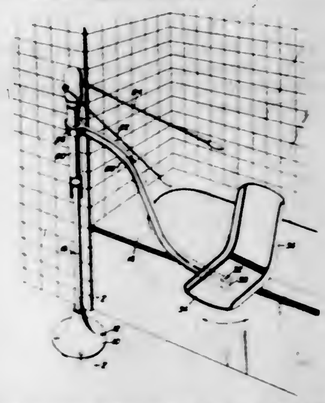
1. A baby walker of the class shown and described comprising a single length of light weight tubing bent intermediate its ends to define a horizontal U-shaped portion, the ends of the limbs of the latter being bent downwardly and forwardly to provide vertical connecting and bumper members, the latter being bent rearwardly at their lower ends to define horizontal rails, the rear ends of said rails being bent inwardly into alignment with one another and the terminal portions being bent and directed upwardly and inclined forwardly to define close spaced parallel struts, the free ends of the latter being joined to the center of the bight portion of said U-shaped portion, a horizontal cross-piece joined to the limbs of said U-shaped portion and situated inwardly of the down-bends of said vertical bumper members, and a launderable fabric sling having complemental portions doubled and detachably suspended from said cross-piece and bight portion respectively and having its ends separably fastened together.

2,664,142

BATHTUB CHAIR

Albert Scheuerman, Sutter, and Olen L. Smith, Carthage, Ill.

Application February 3, 1949, Serial No. 74,454
3 Claims. (Cl. 155—36.5)



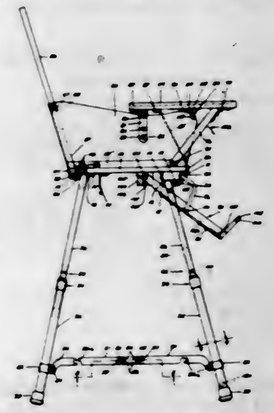
1. A bath tub chair comprising a base, a standard, a cylinder slidable vertically on said standard, means for rotatably supporting said standard upon said base, an arm supported on said cylinder, hydraulic means for raising and lowering said cylinder, a seat member, and means for pivotally supporting said seat member upon said arm, said first-named means including a bearing having a first plate carried by said base, a second plate carried at the bottom of said standard rotatable on said first plate, and antifriction means between said plates.

2,664,143

COLLAPSIBLE AND PORTABLE HIGH CHAIR

Alfonso Li Calsi, Sunnyside, N. Y.

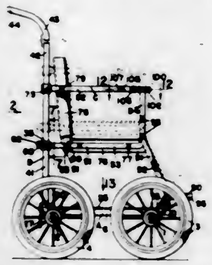
Application October 19, 1949, Serial No. 122,297
15 Claims. (Cl. 155—38)



1. A folding high chair for babies comprising a seat; telescoping legs hinged to and foldable

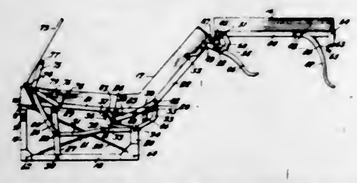
adjacent to the seat; a back and upright side arms hinged to the seat and superposable upon the seat; a tray disposed on the upright arms and linked to the seat and detachably linked to the upright arms and foldable to be disposed over the superposed arms and seat; a foot rest panel detachably secured beneath the seat and intermediately linked to the front of the seat and having a folding foot rest; the panel and foot rest folded thereon being foldable to be disposed against the folded legs; and means carried by the legs and tray for holding the folded parts in folded position.

2,664,144
COMBINED STROLLER AND HIGH CHAIR
Alvin L. Johnson, Worcester, Mass.
Application July 26, 1951, Serial No. 238,611
8 Claims. (Cl. 155—38)



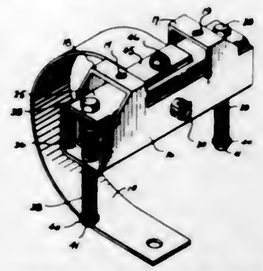
1. In a combined stroller and chair, a chassis comprising axles, mounting wheels and bars secured to and holding the axles parallel, a supporting structure having a base and parallel upright members fixed with respect to said base, detachable means normally holding the base on said chassis with the members extending upwardly from the base and chassis, said detachable means comprising a hook element at the forward end of the chassis under which part of the base extends and a latch normally operatively connecting the rear parts of the chassis and base movable to a position to disconnect the base from the chassis, and a seat unit supported by said members over the base and chassis, the chassis when attached to said structure forming a stroller therewith and the structure when detached from the chassis being capable of resting on said base to provide a chair.

2,664,145
CONVERTIBLE HASSOCK AND BED COMBINATION
Catherine B. Creveling and Elmer V. Pennell, Patterson, N. Y.
Application December 5, 1951, Serial No. 259,936
11 Claims. (Cl. 155—45)



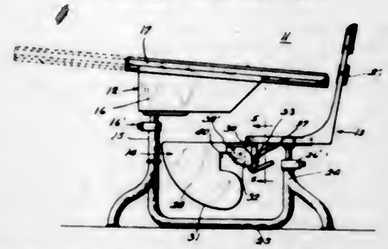
1. A folding bed and hassock combination comprising a base frame of approximate hassock outline dimensions, three hingedly connected frames of substantially equal size, foldable, one over the other, into said base frame, a folding mattress pad overlying and carried by the inner and intermediate of said frames, a smaller, non-folding mattress pad carried by the outer frame for coextensive abutting engagement with the first mattress pad when unfolded, toggle levers connected between said base frame and said inner mattress pad carrying frame for automatically raising and lowering the inner mattress frame in respect to said base frame in the unfolding and folding movements of said hingedly connected frames and levers connected with said intermediate frame and with said toggle levers for actuating said toggle levers.

2,664,146
RESILIENT SEAT MOUNTING
Forrest A. Jackson, Portland, Oreg.
Substituted for application Serial No. 773,970, September 15, 1947. This application July 19, 1952, Serial No. 299,803
2 Claims. (Cl. 155—51)



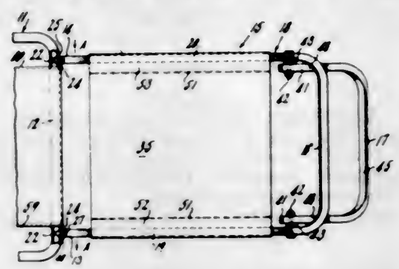
2. A seat mounting of the character described comprising a lower cross member of channel form, facing upwardly, an upper cross member of channel form, facing downwardly and disposed within the side walls of the lower member, a pivot bolt passed transversely through the side walls of said cross members and pivotally joining them between their ends for relative rocking action on said bolt, a support rigidly fixed to the upper cross member, seat mounting means on the lower cross member arched over the upper member, a seat mounted on said mounting means, bolts fixed in the ends of the upper cross member and extended through and beyond the ends of the other member, and springs mounted on said bolts and retained under tension to bear against the ends of said members to yieldingly resist rocking action of one relative to the other.

2,664,147
SUPPORTING STRUCTURE
John B. O'Keefe, Chicago, and Celestine M. Igoe, Crystal Lake, Ill.
Application December 4, 1951, Serial No. 259,766
15 Claims. (Cl. 155—124)



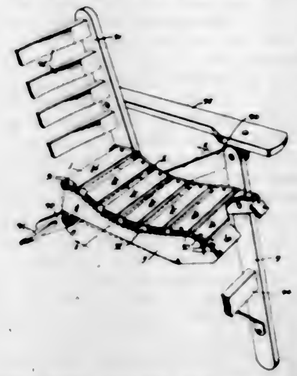
5. A structure of the class described comprising an upright table support, an upright chair support operatively connected to said table support and in spaced relation with respect thereto, a leg-separating element disposed intermediate said supports and operatively connected to one of said supports for pivotal movement thereto, and means mounted on said element and cooperating with one of said supports for holding said element in one position of pivotal adjustment and in coplanar relation with respect to said supports.

2,664,148
CHAIR WITH DETACHABLE FOOTREST
Morton D. Rechler, New York, N. Y., assignor to Rexart Metal Industries, Inc., New York, N. Y., a corporation of New York
Application February 11, 1950, Serial No. 143,679
3 Claims. (Cl. 155—165)



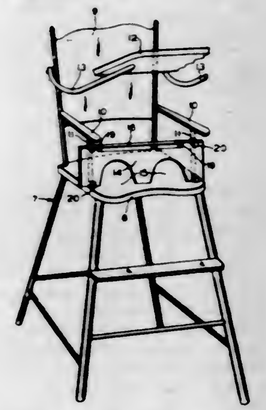
1. In combination, a chair having a front cross member provided with horizontal spaced slots, a U-shaped spring frame forming a foot-rest and having oppositely disposed side rails which are adapted to spring apart, a fabric cover spanning the side rails, the terminal ends of the side rails being provided with notches which notched terminal ends enter the slots and are forced laterally in opposite directions against the outer ends of said slots when the side rails are released and spring apart, said fabric cover being brought to drum tight condition when said notched terminal ends are in spring pressed engagement against the outer ends of the slots.

2,664,149
RESILIENT SLAT-SEAT CHAIR
Paul N. Howard, Kent, Wash., assignor to Howard Manufacturing Co., Kent, Wash., a partnership
Application August 15, 1950, Serial No. 179,436
8 Claims. (Cl. 155—179)



5. A chair seat having two fixedly positioned side bars directed forwardly and rearwardly at its respectively opposite sides, a third bar similarly directed but disposed intermediate the two side bars, a transverse strut fixedly positioned a definite distance beneath the normal unstressed position of the rear end of said intermediate bar, and constituting a limit stop for its downward movement, and transverse slats extending between and secured to the two side bars and overlying the intermediate bar, the forward end of the intermediate bar being supportingly secured to at least one slat adjacent the forward edge of the seat, and the slats being of material which is limitedly flexible before becoming overstressed, and the spacing of the strut beneath the rear end of the intermediate bar being sufficiently great to enable flexing of the slats, but sufficiently slight to limit flexing of the slats to a value less than is required to overstress the slats.

2,664,150
SAFETY GUARD FOR HIGH CHAIRS
Mildred Stret Byrne, Minneapolis, Minn.
Application July 14, 1951, Serial No. 236,737
4 Claims. (Cl. 155—189)

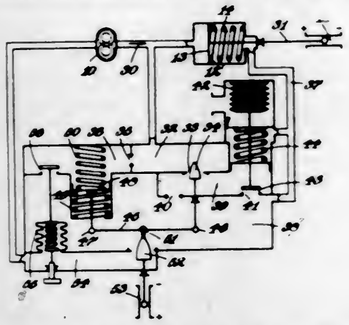


3. In a device of the class described, a vertically disposed panel having a pair of arch-like leg openings in its lower portion, said panel being applicable to a chair having a seat, a pair of arms and spindles supporting the arms from the seat, said arms projecting outwardly of the spindles, said panel when applied to the chair adapted to loosely rest on the seat and extend under the arms and past the same, a pair of clips mounted on the panel for adjustment toward or from each other, and buckle-equipped straps attached to the clips and adapted to loosely encircle the spindles for attaching the clips to the spindles.

2,664,151
CONTROL MEANS FOR FUEL SYSTEMS OF GAS TURBINE ENGINES
Spirito Mario Viale, Coventry, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application May 11, 1948, Serial No. 26,422
Claims priority, application Great Britain May 12, 1947
8 Claims. (Cl. 158—36.4)

1. In a gas-turbine fuel system arranged for governing the speed of the engine to a desired value by variation of the fuel supply and comprising a variable-stroke fuel pump having means to adjust the fuel-pump stroke, control means comprising a hydraulic positive-displacement fixed-capacity pump, a driving connection between the engine and the fixed-capacity pump

to drive the fixed-capacity pump at a speed proportional to the engine speed, a hydraulic circuit connected between the inlet and delivery of the fixed-capacity pump and comprising orifice means arranged to pass the full delivery of the fixed-capacity pump thereby to produce a pressure drop which is a function of the engine rotational speed, said orifice means comprising a first orifice, and in series with said first orifice a fixed area orifice and a hydraulically-parallel-arranged adjustable-area orifice, an adjustable member co-operating with said first orifice to select the effective area thereof, a barometric device responsive to a barometric pressure, a valve member adjustable by said barometric de-



vice and co-operating with said adjustable-area orifice to increase the effective restriction of said adjustable-area orifice on decrease in said barometric pressure, a pressure-responsive device having a displaceable element, hydraulic connections from said pressure responsive device to the hydraulic circuit on each side of the orifice means to load the displaceable element by said pressure drop, a spring of substantially constant rate to load said displaceable element in opposition to the load due to the pressure drop, and an operative connection from the displaceable element to the means to adjust the fuel pump stroke arranged to decrease the pump stroke with increase in the pressure drop.

2,664,152

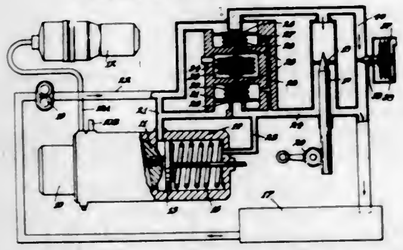
FUEL SYSTEM FOR GAS TURBINE ENGINES

Kenneth Roy Davies, Radbourne, near Derby, and Karl Herbstritt, Littleover, Derby, England, assignors to Rolls-Royce Limited, Derby, England, a British company

Application May 11, 1948, Serial No. 26,423

Claims priority, application Great Britain May 12, 1947

7 Claims. (Cl. 158—36.4)



3. In a gas-turbine engine fuel system including adjusting means to vary the delivery of fuel to the engine, control means to actuate the adjusting means comprising a constant-displacement hydraulic pump adapted to be driven at a speed proportional to engine speed; a manually-operable speed-selecting lever; conduit means connected to said hydraulic pump to receive the full delivery of said hydraulic pump and flow-restricting means located in said conduit means and comprising a first variable-area orifice the area of which is adapted to be controlled solely by said manually-operable speed-selecting lever, and a second variable-area orifice; pressure-responsive means adapted to be responsive to changes in ambient atmospheric pressure and connected to vary the effective area of said second variable-area orifice in a manner to decrease the area on decrease of ambient atmospheric pressure, and a pressure-responsive device having pressure connections to said conduit upstream and downstream of said flow-restricting means, thereby to respond to the total pressure drop across said flow-restricting means, and connected to said adjusting means to actuate it.

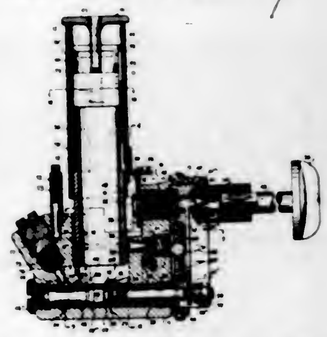
2,664,153

VARIABLE OUTLET GAS BURNER

Paul F. Swenson, Cleveland Heights, and Milton F. Pravda, Bedford, Ohio, assignors to The Cleveland Research Corporation, Cleveland, Ohio, a corporation of Ohio

Application July 7, 1948, Serial No. 37,347

22 Claims. (Cl. 158—117)



15. A gas burner for burning fuel gases of different B. t. u. values comprising, a base having a tubular valve chamber therein adapted to be supplied with gas under pressure, a mixing tube having one end thereof connected with said base for mounting the tube thereon with its axis extending substantially normal to the axis of said valve chamber, said tube having an air inlet opening at said one end and at its other end having a delivery opening for a gas and air mixture, said base having an orifice therein leading from said valve chamber substantially radially thereof and located substantially on the axis of said mixing tube and adapted to discharge a velocity stream of gas in the latter for mixing with air induced through said air inlet opening, said orifice having an apex portion at one end and a diverging taper extending away from said apex portion and axially of said valve chamber, an annular valve seat in said valve chamber adjacent said apex portion, a valve plunger in said valve chamber in controlling relation to said orifice and having an annular end portion engageable with said annular valve seat in the closed position of the valve plunger, said valve plunger being axially slidable in said valve chamber for opening and closing movements relative to said seat and for opening said orifice to a variable extent, and means operable to impart axial movement to said valve plunger.

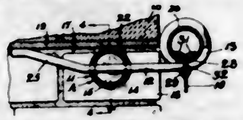
2,664,154

FIREPLACE SCREEN AND HANGER

Edward A. Evers, Los Angeles, Calif.

Application December 8, 1951, Serial No. 260,647

5 Claims. (Cl. 160—332)



2. In a fireplace curtain structure, a bracket structure comprising a mounting bar having at its end means for anchoring the same to the respective side walls of a fireplace opening, and a plurality of bracket fingers each secured intermediate its ends to said bar and extending transversely thereof, and each having a forwardly projecting portion for supporting a fireplace curtain rod and a rearwardly projecting tail portion engageable against the under surface of the head of the fireplace, to brace said mounting bar against rotation about its own longitudinal axis, whereby said bracket fingers are securely supported while carrying the weight of a fireplace curtain and its supporting rod.

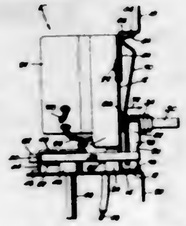
2,664,155

TIMING DEVICE

Caton Bradley, Middletown, Conn., assignor to The Sessions Clock Company, Forestville, Conn., a corporation of Connecticut

Application August 26, 1952, Serial No. 306,475

20 Claims. (Cl. 161—1)



1. In a timing device, the combination of a power-driven screw-threaded spindle; a feed rod laterally movable transversely and longitudinally of said spindle and normally yieldingly urged against the screw thread into feeding relation therewith and also in a starting position thereon longitudinally of the spindle; a guide having opposite surfaces of which one surface extends from adjacent said starting position in close proximity to and along an axial length of the screw thread in the feeding direction of the rod to retain the latter in feeding relation with the screw thread throughout said length thereof, and the other surface is shaped to guide the yieldingly-urged rod back into said starting position on clearing said one guide surface at the end of each feed stroke; and means including a timer element for actuating the latter on each feed stroke of said rod.

2,664,156

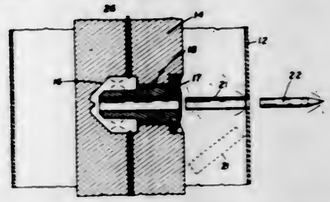
SMALL GUN PERFORATOR FOR WELLS

Thomas O. Allen, Bellaire, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application September 11, 1950, Serial No. 184,164

5 Claims. (Cl. 164—0.5)

1. A device for perforating casing in oil wells beneath tubing suspended within said casing comprising a control section; a plurality of cylindrical gun sections; hinges for hingedly connecting said sections together at their ends and for connecting the uppermost of said gun sections to said control section, alternate hinges being affixed to the ends of the gun sections at diametrically opposed points thereon in such a way as to permit the gun sections to assume a position wherein their longitudinal axes are substantially vertical and to permit said gun sections to assume a position wherein their longitudinal axes are substantially horizontal; and means carried



by the control section for causing the gun sections to assume automatically a position for firing such that their longitudinal axes are substantially horizontal when the gun sections are not prevented from assuming said firing position, the cylindrical gun sections being longer in axial direction than in cross-sectional diameter, whereby said sections will pass through said tubing when arranged so that their longitudinal axes are substantially vertical and will assume a position wherein the longitudinal axes are substantially horizontal when they have cleared the lower end of the tubing.

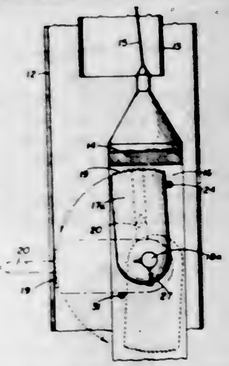
2,664,157

SMALL GUN PERFORATOR FOR OIL WELLS

Guss F. Abendroth, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application September 11, 1950, Serial No. 184,165

3 Claims. (Cl. 164—0.5)



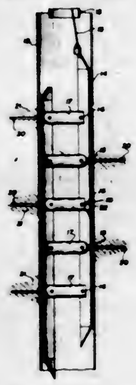
1. A device for perforating casing in oil wells below tubing suspended within said casing comprising an elongated body, a gun barrel mounted on trunnions for rotation in said body, said trunnions being offset from the center-line of the barrel to cause said barrel to rotate, under the influence of gravity, when not restrained from so doing from a vertical position longitudinal of the body into a position transverse thereof and to cause said barrel to again rotate an additional amount into a substantially vertical position longitudinal of the body when fired, due to the reaction forces created by firing.

2,664,158

GUN FOR PERFORATING CASING

Jerome G. McKean, Bellaire, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application September 11, 1950, Serial No. 184,168
3 Claims. (Cl. 164—0.5)



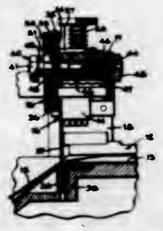
3. A device for perforating casing in an oil well below tubing suspended within said casing comprising an elongated carriage split longitudinally throughout its length to divide it into two parts, bars pivoted to the two parts of said carriage and forming therewith a parallel linkage mechanism, explosive means disposed within the carriage for perforating the casing, a retainer for holding said parts temporarily in an extended position and means for shearing said retainer which utilizes the reaction force of said explosive means when it is fired, whereby said carriage may be held with the two parts thereof in nested position by the tubing through which is is lowered into the well, separate under the influence of gravity into an extended position after it has passed out of the lower end of the tubing and then fall into a retrieving position when said retainer is sheared.

2,664,159

SELECTIVELY OPERABLE CUTOFF MECHANISM FOR MARKING MACHINES

Frederick C. Geiler, Dayton, Ohio, assignor to The Monarch Marking Machine Company, Dayton, Ohio, a corporation of Ohio

Application May 6, 1950, Serial No. 160,570
1 Claim. (Cl. 164—48)



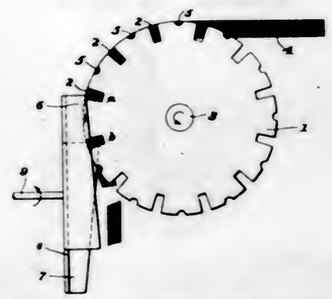
Selectively operable cut-off mechanism adapted to be mounted upon a vertically reciprocating member, said mechanism comprising a carriage disposed at a side of said member in vertically slidable relationship therewith, a cut-off knife mounted on the carriage and depending therefrom, a pair of shear plates, said shear plates disposed so as to present a slot beneath said cut-off knife in vertical alignment therewith, a pilot finger depending from said cut-off knife into said slot, spring means urging said carriage toward an elevated position with respect to said vertically reciprocating member in which the knife is above said shear plates when said vertically reciprocating member is at the lowest point in its reciprocating movement, a releasable latch pin mounted in said vertically reciprocating member and engageable with the carriage for locking said carriage in a lowered position relative to said vertically reciprocating member in which said cut-off knife is within said slot when said vertically reciprocating member is at the lowest point in its reciprocating movement, and means associated with said latch pin adapted to hold said carriage against the side of said vertically reciprocating member resiliently whereby the pilot finger is effective for guiding said cut-off knife into said slot despite misalignment of the reciprocating member with respect to said slot.

2,664,160

APPARATUS FOR CUTTING ARTIFICIAL FILAMENTS INTO SHORT LENGTHS

Raymond Holden Speakman, Wheathampstead, England, assignor to Imperial Chemical Industries Limited, Millbank, England

Application June 27, 1951, Serial No. 233,777
Claims priority, application Great Britain July 10, 1950
5 Claims. (Cl. 164—61)



1. Apparatus for cutting continuous filaments into short lengths comprising a wheel, a plurality of filament confining projections extending radially from said wheel, a cutting member mounted for rotation in a plane substantially tangent to but spaced slightly from the periphery of said wheel, said cutting member having an edge section shaped in spiral form relative to the rotational axis thereof, and an elongated knife blade detachably affixed to the spiral edge section of said cutting member and extending toward said wheel, said knife blade being arranged to pass between said projections and cut said filaments.

2,664,161

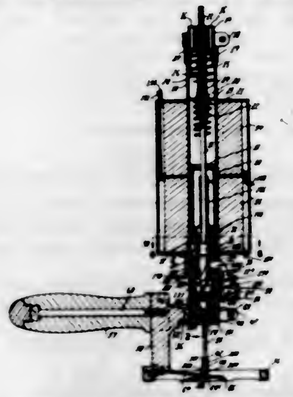
PUNCHING APPARATUS FOR SHEET OR STRIP MATERIAL

Robert H. E. Schlecht, Affton, Mo.

Application April 20, 1949, Serial No. 88,669
17 Claims. (Cl. 164—89.5)

1. In a material punching device, an axially movable rod-like punch member including a punch element adapted at one end for material punching, said punch element being movable angularly relative to the longitudinal axis of the

member, relatively spaced abutments on said member, an electro-magnetically actuated hammer movable between said abutments and adapted for impact engagement therewith, the hammer electro-magnetically actuated to impact engagement with one abutment, effecting punching displacement of the member, and



electro-magnetically actuated to impact engagement with the other abutment, and means responsive to angular movement of said punch element for effecting electro-magnetic actuation of said hammer for impact engagement with said other abutment, whereby to effect a retracting displacement of the member.

2,664,162

MEANS FOR INSTALLING AND REMOVING FLOW VALVES

Kenneth C. Howard, Fort Worth, Tex., and Harold E. McGowen, Jr., and Howard H. Moore, Jr., Bunkie, La., assignors to Sid W. Richardson Inc., Fort Worth, Tex., a corporation of Texas

Application June 24, 1948, Serial No. 34,954
8 Claims. (Cl. 166—1)



1. In combination with a well tubing having a vertical main bore, said tubing including one or more flow valve receiving sections each having a portion laterally offset from the vertical main bore and provided with a flow valve seat in the offset portion, and means, including a shifting tool adapted to be lowered from the top of the tubing to the level of a selected section, for selectively seating or removing a flow valve in or from its seat within a selected receiving section, said shifting tool being provided with means for moving said tool and its appendages laterally within the offset portion of the selected section.

2,664,163

WELL CEMENTING APPARATUS

Sylvester B. Schnitter, Dallas, Tex., assignor to L. L. Recter, Tarrant County, Tex.

Application April 16, 1949, Serial No. 88,020
8 Claims. (Cl. 166—1)



1. A fluid segregating plug comprising, a substantially cylindrical body of elastic material said plug having a central core portion, an outer wall, and a plurality of web members spaced about the end faces of the plug, said webs connecting the core and the outer wall, thereby forming a plurality of open recesses arranged through the end faces of the plug, the outer walls of said plug being adapted to conform to the inner surface of a conduit throughout the entire length of such walls

2,664,164

WELL PACKER

Jesse Gannon, Culver City, Calif., assignor to Ben Weingart, Los Angeles, Calif.

Application August 11, 1951, Serial No. 241,469
17 Claims. (Cl. 166—12)



1. A well packer including, a body having sections with spaced opposed parts, one section being an elongate tubular main section and the other section being an annular clamp section surrounding and shiftable longitudinally relative to the main section, a plurality of separable packers in

a series extending lengthwise of the main section and between said parts and each slidably carried on the main section and adapted to be compressed between said parts upon the sections being moved in one direction relative to each other, and a member connected to each packer and slidably connected to the main section for limited movement relative thereto, the members being of different lengths and adapted to successively pick up the packers for movement with the main section upon relative movement between the sections in the opposite direction.

2,664,165

INCREASING PRODUCTIVITY OF SILICEOUS GEOLOGICAL FORMATIONS

Donald C. Bond, Crystal Lake, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application August 17, 1951, Serial No. 242,420
11 Claims. (Cl. 166—21)

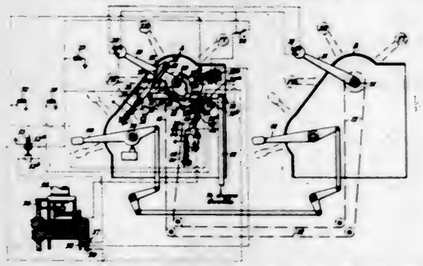
1. A method for increasing the permeability of a siliceous subterranean geological formation traversed by a bore hole the steps which comprise hydraulically fracturing said formation by forcing thereinto a highly viscous colloidal gel to produce within said formation a pressure in excess of the static formation overburden pressure and sufficient to fracture said formation, forcing into said fractured formation a fluophosphoric acid solution in an amount sufficient to react with said formation, peptizing said colloidal gel to produce a low viscosity sol, and flushing said sol, unreacted acid, and effluent reaction products from said formation.

2,664,166

ENGINE CONTROL FOR AIRCRAFT

Cyril Henry Swaab, Blymhill, near Shifnal, England, assignor to H. M. Hobson Limited, London, England, a company of Great Britain

Application March 14, 1951, Serial No. 215,582
6 Claims. (Cl. 170—135.74)



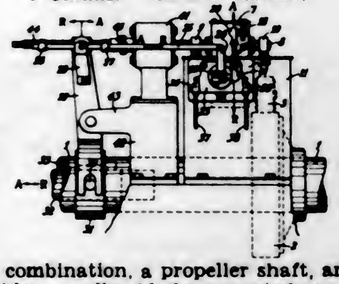
1. In an aircraft, having a reversible pitch propeller and an engine throttle, a throttle control mechanism comprising a control lever mounted for movement from a neutral position in forward and rearward directions, a linkage connecting said control lever and said throttle, said linkage being effective to open said throttle on movement of said control lever either forwards or rearwards from its neutral position, pitch changing mechanism for shifting the blades of said propeller from normal pitch to reverse pitch and back again, first and second members positioned in the path of said control lever and arranged to be respectively actuated thereby on movement of said control lever to a first predetermined position rearward of the neutral position and on movement of said control lever to a second predetermined position forward of the neutral position, means operable by said first member for causing said pitch changing mechanism to reverse the pitch of the propeller, means operable by said second member for causing the pitch changing mechanism to return the propeller pitch to normal, a stop positioned in the path of said control lever to prevent, while the propeller is in normal pitch, substantial rearward movement of the control lever from its first predetermined position while permitting unobstructed forward movement of said control lever from said first predetermined position, and means controlled by the pitch changing mechanism for disabling said stop when the propeller has reached reverse pitch.

2,664,167

PROPELLER PITCH CHANGE MECHANISM

Gustaf Östergren, Jonkoping, Sweden, assignor to Aktiebolaget Jonkopings Motorfabrik, Jonkoping, Sweden, a Swedish joint-stock company

Application April 25, 1949, Serial No. 89,452
Claims priority, application Great Britain January 27, 1949
3 Claims. (Cl. 170—160.28)



1. In combination, a propeller shaft, angularly adjustable propeller blades mounted on one end thereof, a rod passing through said shaft and connected to the blades to adjust the same when moved longitudinally, a rocking lever connected with the rod for moving the same longitudinally, a rotatable intermediate shaft having a threaded portion, a nut on the rocking lever threaded on to said portion of the intermediate shaft, a driving friction wheel on the propeller shaft for rotating the intermediate shaft, a gear housing rockingly mounted on the intermediate shaft, and a gear mechanism mounted in said gear housing in driving connection with the intermediate shaft, said gear mechanism comprising two friction wheels alternately engaging said driven friction wheel in two operative end positions of the gearing housing for driving the intermediate shaft in opposite directions.

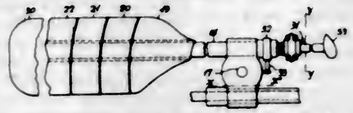
2,664,168

ADJUSTABLE AIRPLANE-HELICOPTER AIRSCREW

Henri Edmond Giroz, Paris, France

Application July 26, 1949, Serial No. 106,875
4 Claims. (Cl. 170—160.42)

1. An airscrew for aircraft, comprising a rotatable shaft, a set of blades mounted on said shaft for common rotation therewith about the axis of said shaft, each blade comprising a rod-like spar member extending substantially radially of said shaft, and a plurality of profiled blade sections, each rotatably mounted on said spar member to jointly constitute a blade member, skew-control means engaging said blade sections and movable relatively to each of said spar members for differentially rotating said blade sections on each of said spar members to vary the skew of the blades, said spar members being mounted on said shaft so as to be rotatable about their respective axes, said airscrew also comprising actuating means connected to said skew-control member and rotatable with and movable



axially relative to said shaft for actuating said skew control means, and pitch-control means connected to said spars and rotatable with and movable axially relative to the shaft for rotating the spar members about their axes.

2,664,169

COOKING UTENSIL SPLATTER LID

Richard E. Misener, John W. Abbott, Stanley E. Clarke, and Henry P. Woodruff, Vancouver, British Columbia, Canada

Application January 27, 1951, Serial No. 208,106
5 Claims. (Cl. 183—1)



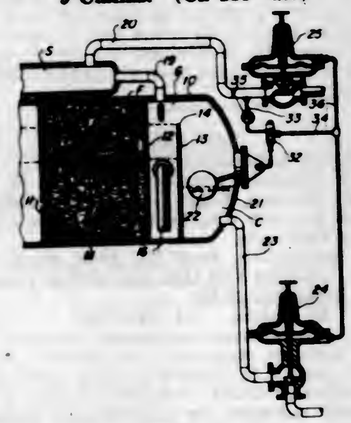
1. A splatter lid comprising a plurality of horizontal bars radiating from a central point, a supporting rod connected to the outer end of each bar, and extending upwardly and inwardly therefrom, said rods coming together at the inner ends thereof, and a conical cover formed of absorbent material removably mounted on the supporting rods.

2,664,170

DUAL CONTROL SEPARATION OF GAS AND OIL

Jay P. Walker and Clarence O. Glasgow, Tulsa, Okla., assignors to National Tank Company, Tulsa, Okla., a corporation of Nevada

Application July 24, 1952, Serial No. 300,788
9 Claims. (Cl. 183—2.7)



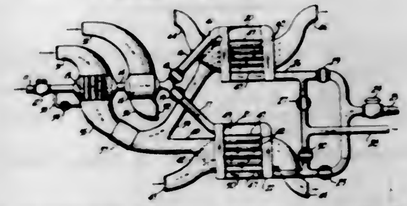
1. In combination, a single tank, an overflow partition in the tank defining a weir at its upper edge, an oil accumulating chamber defined by said partition and walls of the tank, water discharge means from the tank in advance of said partition, an oil outlet from the chamber on the other side of said partition, a gas separator connected with the tank, a gas outlet from the separator, an oil level responsive element in the chamber below the weir, a diaphragm oil valve connected to the oil outlet, a diaphragm gas valve connected to the gas outlet, a pilot valve having inlet connection with the gas outlet, an actuating connection between the level-responsive element and the pilot valve, a gas outlet conductor leading from the pilot valve and connected with the gas outlet valve above its diaphragm for closing said valve and connected with the diaphragm of the oil outlet valve below its diaphragm for opening said oil outlet valve.

2,664,171

SYSTEM FOR OBTAINING NITROGEN FROM AIR BY ADSORPTION OF OXYGEN

John A. Lawler, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware

Application April 5, 1952, Serial No. 280,844
1 Claim. (Cl. 183—4.7)



A nitrogen-generator system for installation in an airplane to continually generate purge gas during flight for injection into fuel tanks, comprising an engine compressor, a heat exchanger to receive hot compressed air from the engine compressor, a pipe to direct the flow of the air to the exchanger from the discharge of the compressor, an air duct to carry atmospheric air to the heat exchanger as a cooling medium, a Y-sectioned pipe connected to the compressed air outlet of the heat exchanger, valves in each Y-section, two adsorption units to receive compressed air through the respective Y-sections of the second pipe at alternate intervals as controlled by the valves, oxygen adsorbing material contained in each adsorption unit for the substantial removal of oxygen, a pair of additional air ducts to carry atmospheric air through the respective two adsorption units as a cooling medium, a Y-sectioned duct through which the warmed atmospheric air from the heat exchanger passes to the respective adsorption units entering the units at alternate intervals as controlled by valves so that one unit is desorbing oxygen as the other is adsorbing oxygen thereby acquiring an overall substantially continuous production of both purge gas and oxygen, and discharge pipes and valves to segregate and to direct the flow of purge gas and oxygen from the adsorption units respectively to fuel tanks and oxygen receiving chambers.

2,664,172

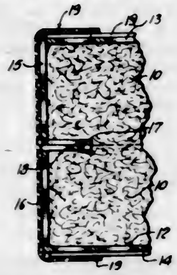
AIR FILTER CONSTRUCTION

Charles E. Butterfield, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Application June 7, 1951, Serial No. 230,346
3 Claims. (Cl. 183—45)

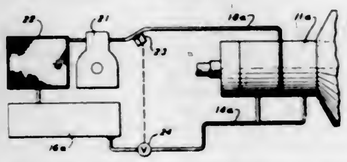
1. A filter construction unit consisting of a generally flat mat of fibers, said mat having gener-

ally parallel and planar major faces and edges generally perpendicular to such major faces and a retainer for such mat consisting in a thin perforated grill having a flat body overlying one major face of said mat, marginal flanges extend-



ing generally perpendicularly to said body and embracing all of the edges of said mat and return lips extending inwardly over the margins of the other major face of said mat generally parallel to said flat body.

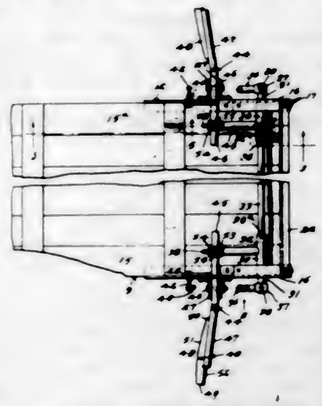
2,664,173
METHOD OF AND APPARATUS FOR LUBRICATION AND COOLING OF SURFACES
Horace E. Karig, Pasadena, Calif.
Application August 5, 1949, Serial No. 108,835
14 Claims. (Cl. 184—6)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A lubrication and cooling system comprising a substantially closed casing, a bearing surface in said casing, a nozzle disposed to project a stream of liquid against said bearing surface, an inlet conduit connected to said nozzle feeding into said casing and containing a mixture of lubricant and vaporizable coolant, the pressure in said casing being less than that in said inlet conduit, an outlet conduit connected to said casing to remove lubricant and vaporized coolant therefrom, a compressor and cooler connected between said outlet conduit and said inlet conduit to compress the mixture and reliquefy said coolant, temperature responsive means located in said outlet conduit, and a valve in said inlet conduit connected to said temperature responsive means to be operated thereby so as to control the circulation rate of said mixture in accordance with the outlet temperature of said mixture.

2,664,174
COMBINATION BRAKE AND STEERING ATTACHMENT FOR TOBOGGANS
John E. La Marr, Torrance, Calif.
Application July 30, 1952, Serial No. 301,709
7 Claims. (Cl. 188—8)

1. A combination brake and steering attachment for toboggans comprising side plates adapted to be detachably secured to the side edges of the upwardly curved and turn back forward end of a toboggan, shaft members extending through and journalled in said side plates, an actuating lever fixed to each shaft member, said actuating levers being disposed outwardly of the side plates and being adapted to be manually operated for independently turning the shaft members, lever arms fixed to and projecting transversely from the shaft members and disposed between said side members, said side plates having vertically elongated slots, blade supporting arms extending through the slots of said side plates, means pivotally supporting said blade supporting arms intermediate of their ends on said side plates for vertical swinging movement, means loosely engaging inner ends of said blade supporting arms, disposed between the side plates, and loosely engaging said lever arms for connecting the lever arms and blade supporting arms, an elongated braking and steering blade secured to the outer end of each blade supporting arm

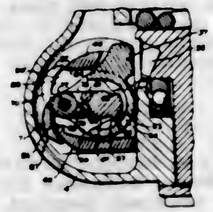


outwardly of its side plate and having a longitudinal axis disposed substantially at a right angle to the planes of the side plates, said blades having upper edges secured to said outer end portions of the blade supporting arms and extending downwardly therefrom, said blades being supported by the blade supporting arms in elevated positions in one position of said actuating levers, said actuating levers being swingable in one direction longitudinally of the plates whereby said lever arms will exert an upward pull on the inner ends of the blade supporting arms through the means loosely connecting the lever arms and blade supporting arms for causing the outer ends of the blade supporting arms and blades to be swung downwardly to position the blades in engagement with a surface over which the toboggan is traveling.

2,664,175
HOOK LOCKING MECHANISM
Richard K. Hertel, Winston-Salem, N. C., and Garth F. Nicolson, South Gate, Calif., assignors to Byron Jackson Co., Vernon, Calif., a corporation of Delaware
Original application April 28, 1945, Serial No. 590,940. Divided and this application January 6, 1949, Serial No. 69,454
12 Claims. (Cl. 188—69)

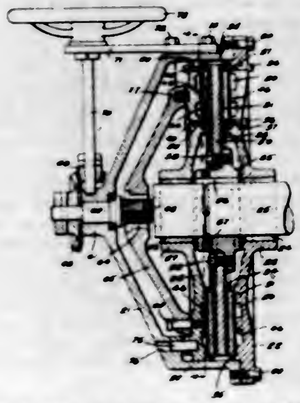
1. In a hook structure, a housing member and a shank member mounted for relative rotary movement, means forming a locking surface associated with said shank member, a locking member pivotally mounted on said housing member and having a locking element movable into and out of engagement with said locking surface, a latch member mounted on said locking member and operable to retain said locking member in one of its positions, and an actuating member

mounted for pivotal movement about the axis of said locking member and having a lost-motion connection therewith, said actuating member be-



ing operatively connected to said latch member to move the latter into released position during lost motion between said actuating member and said locking member.

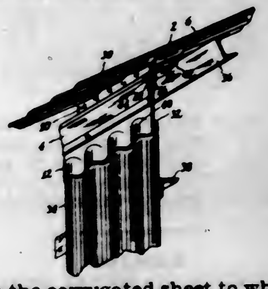
2,664,176
COOLED DISK BRAKE
John P. Whalen, Watertown, N. Y., assignor to The Bagley & Sewall Company, Watertown, N. Y., a corporation of New York
Application August 31, 1949, Serial No. 113,315
3 Claims. (Cl. 188—264)



1. A shaft brake comprising an enclosed housing, a shaft journalled in one end wall of the housing, a carrier arranged in the housing and being journalled on the inner end of said shaft and being movable axially thereof toward and from said end wall, said carrier and housing having means cooperable to restrain rotation of the carrier relative to the housing, the confronting surfaces of said end wall and carrier being formed with annular channels for the circulation of a cooling medium, annular friction members detachably secured to the confronting surface of said end wall and said carrier respectively in registration with said channels and forming a closure therefor, a friction disk fixedly secured on the shaft intermediate said end wall and said carrier and extending between said annular friction members, and means operable externally of the housing to move said carrier toward said end wall.

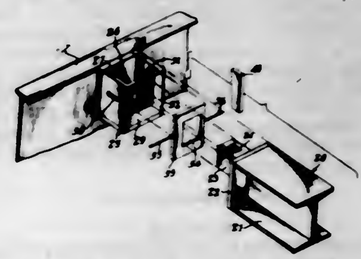
2,664,177
FLASHING CONSTRUCTION
Andrew B. Hammitt and Herbert L. Birum, Jr., Trenton, N. J.
Application October 10, 1947, Serial No. 779,166
5 Claims. (Cl. 189—1)

4. A building construction comprising flashing material closing the space between a sheet of corrugated siding material and an independently supported adjacent straight horizontally extending member, said flashing material being in the form of an elongated strip of metal having one longitudinal edge portion thereof corrugated to



conform to the corrugated sheet to which it is applied and having the opposite longitudinal edge portion thereof provided with a straight slot embracing said adjacent straight, horizontally extending member.

2,664,178
DRILLING RIG BASE
Louis A. Whipple, Jr., La Canada, Calif., assignor to Rocky Mountain Drilling Company, Los Angeles, Calif., a corporation of Wyoming
Application May 13, 1949, Serial No. 93,003
3 Claims. (Cl. 189—21)



1. A drilling rig support comprising a pair of structural members: cross pieces connected with said structural members; each of said cross pieces having at each end thereof an extension; each extension having an opening therein; means on said structural members forming boxes each having a front wall and side walls; means forming an upwardly opening notch in each of said front walls; said extensions each removably fitting within one of said notches in said front walls; a rectangular open frame in each of said boxes; said extensions being received within said open frames with said open frames being slidably mounted on said extensions; each of said open frames having pins projecting laterally therefrom; means forming transverse slots in said side walls; said pins projecting through said slots; and keys removably fitting in said openings in said extensions removably locking said extensions within said boxes, said open frames in locked position being held between said keys and said front walls.

2,664,179
NAILABLE METAL STRUCTURAL MEMBER
Jacob M. Gwynne, Atlanta, Ga.
Application April 27, 1949, Serial No. 89,967
8 Claims. (Cl. 189—34)

1. A nailable metal structural member comprising an elongated web and an elongated flange

integral therewith and extending longitudinally thereof, said flange being formed with a plurality of laterally spaced continuous, longitudinally extending flat-bottomed nailing grooves separated



by ribs of angle section, the crests of said ribs constituting a series of spaced, parallel knife edges, the floor of at least one of said grooves being, throughout its length, of a uniform thickness less than the general thickness of said flange.

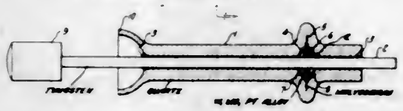
2,664,180

QUARTZ-TO-METAL SEAL

Leo R. Peters, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application May 1, 1948, Serial No. 24,522

4 Claims. (Cl. 189—36.5)



1. A stem comprising a vitreous support, a metal rod extending through said support, a metal disc hermetically united with said rod and said support, said rod being of a metal from the group consisting of tungsten and molybdenum; and said disc being of the other metal of said group, said disc having a bellows portion for relieving radial strain in said disc, and metal cups on opposite sides of said disc providing a chamber in said stem and about said bellows portion for free flexing of the latter.

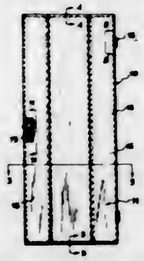
2,664,181

HOLLOW METAL DOOR CONSTRUCTION

Earl Boughton, Canton, Ohio

Application May 13, 1948, Serial No. 26,768

12 Claims. (Cl. 189—46)



9. In a sheet metal door, a hollow stile having a longitudinal passage therein and also having walls including opposed side walls and an edge wall defining a longitudinal edge face of the door, an internal longitudinal flange carried by said edge wall and projecting from the inner surface thereof into said passage and being spaced from said side walls by longitudinal channel portions of said passage, said edge wall having an opening therein communicating with said passage and interrupting said flange and adapted to receive a hinge butt, and a pair of metal plate members having relatively close fitting engagement in said channel portions and also having locating portions engaging said flange at said interruption thereof for locating said plate members longitudinally of said channel portions and relative to said opening, said plate members being welded to said edge wall in spanning relation to said opening and having portions exposed through said opening and forming a mount for said hinge butt.

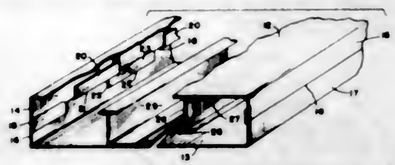
2,664,182

SHEET METAL DOOR CONSTRUCTION

Warren J. Williams, Richmond Hill, N. Y., and Carl A. Anderson, Cranford, N. J.

Application November 30, 1951, Serial No. 259,062

1 Claim. (Cl. 189—46)



A sheet metal door comprising two opposed flat walls, interlocking continuous flanges at right angles to the vertical sides of said flat walls, said flanges extending half the thickness of said door and adapted to abut each other, guide members offset the thickness of the sheet metal and extending from the edge of said flanges of said flat walls each of the guide members on said flanges of one flat wall having fingers for interlocking in parallel relationship with said guide members of the other of said flanges on the opposed flat wall, said guide members arranged alternately along said flanges, top and bottom channel members between said flat walls for reinforcing said door, T-shaped vertical reinforcing members, said reinforcing members having flanges for attaching said reinforcing members to the inner faces of said flat walls, said reinforcing members alternately attached to the inner faces of said opposed flat walls, the T-shaped end of each of said reinforcing members extending less than the thickness of said door.

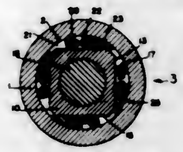
2,664,183

ONE-WAY CLUTCH

Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application August 22, 1951, Serial No. 243,013

11 Claims. (Cl. 192—45)



1. In a clutch, a driving member oscillating about an axis and having an internal cylindrical surface concentric with the axis, a driven member within the driving member rotatable about said axis and having an external cylindrical surface concentric with said axis fitting part of said internal cylindrical surface and around which said driving member turns and having also a flat surface parallel to the axis and forming a segmental pocket with said internal cylindrical surface, a force transmitting element circular in cross section in the pocket between the internal

cylindrical and flat surfaces and located nearer to one end of said pocket than to the other end thereof, a carrier element in said other end of the pocket separate from said members having a planar surface and an arcuate surface of the same curvature as that of said internal cylindrical surface, and resilient means supported by the carrier engaging the force transmitting element urging the latter toward said one end of the pocket and into driving engagement with said members and urging the carrier element toward the other end of said pocket with said flat and planar surfaces engaging each other and with the arcuate surface of the carrier element in engagement with said internal cylindrical surface, said driving member when turning in a direction to move the internal cylindrical surface toward said one end of said pocket cooperating with the force transmitting element to turn the driven member and said driving member when turning in the opposite direction causing said internal cylindrical surface to slide along said arcuate surface without causing said carrier element to turn said driven member and moving said force transmitting element out of driving relation with respect to said driven member.

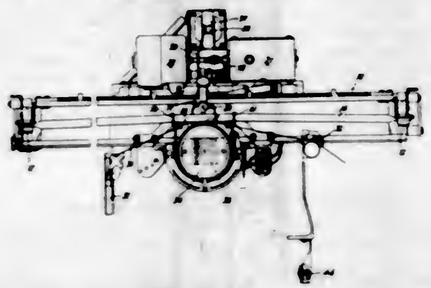
2,664,184

REAR-STRIKE TYPEWRITER MECHANISM

Harry Johnson, Elizabeth, N. J., assignor to Ralph C. Coxhead Corporation, Newark, N. J., a corporation of Delaware

Application November 21, 1951, Serial No. 257,587

18 Claims. (Cl. 197—6.5)



1. In a rear-strike typewriter, embossed type, a pivotally mounted hammer, a hammer spring biasing the hammer forwardly for a printing stroke to drive work to be typed on against the type, an escapement mechanism for controlling operation of the hammer, and mechanism, including an electrical solenoid energized upon forward movement of the hammer in its printing stroke, for maintaining an increased pressure of the hammer against work to be typed on during formation of a type impression.

2,664,185

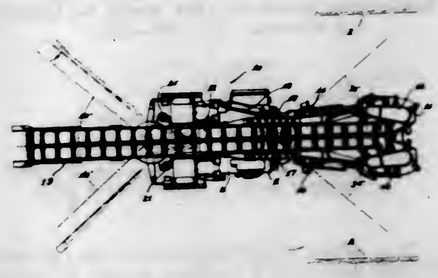
GATHERING AND LOADING MACHINE

Fred B. Miller, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application December 26, 1952, Serial No. 328,018

6 Claims. (Cl. 198—8)

1. In a machine for gathering and loading coal or the like from the working face of a mine, a main frame supporting a gathering mechanism arranged to swivel with respect to said frame, an endless flight conveyor mounted on said frame for conveying material which has been gathered by said gathering mechanism, a pair of endless conveying means mounted on said gathering mechanism having gathering elements carried thereby for moving material to said flight conveyor, a motor including a power transmission for driving said flight conveyor and said gathering mechanism, a power takeoff from said power transmission for each of the conveying means



of said gathering mechanism, each of said power takeoffs having a slip clutch connected therein, one of said slip clutches being adjusted to slip upon a higher torque than the other, so that when said gathering elements conjointly engage a lump of fragmented material in a fashion tending to stall said conveying means, one will continue to remain operable.

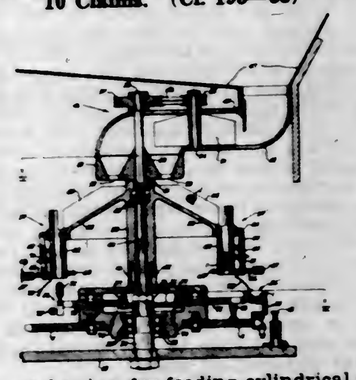
2,664,186

NONINTERMITTENT LAMP BASE FEEDING MECHANISM

James Bain, Jr., Waldoboro, Maine, assignor to General Electric Company, a corporation of New York

Application December 22, 1950, Serial No. 202,353

10 Claims. (Cl. 198—33)



1. A mechanism for feeding cylindrical articles to holders therefor mounted at equal intervals on an articulated conveyor adapted to move uninterruptedly, comprising a sprocket adapted to engage said conveyor over a predetermined angle of wrap, a cam-actuated injecting unit fast to said sprocket and comprising means receiving said articles in an upright position and delivering them in a substantially horizontal position to said holders during successive ones of said angles, a metering unit fast to said sprocket and supported over said injecting unit and adapted to release one article to it at a time, an alignment unit fast to said sprocket and supported over said metering unit for feeding said articles in fixed orientation to said metering unit, and means for feeding said articles at a controlled rate to said alignment unit.

2,664,187

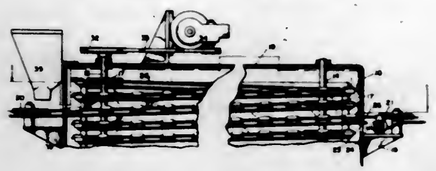
WITHDRAWN

2,664,188

CONVEYING DEVICE

Herbert C. Rhodes, Portland, Oreg.

Application March 27, 1950, Serial No. 152,037
3 Claims. (Cl. 198—147)



1. In a dough proofing device of the character described including a housing, a pair of vertical shafts mounted in said housing, a plurality of identical pulleys mounted on each shaft, the pulleys on said shafts constituting corresponding tiers, an endless flexible element engaging all of said pulleys and arranged to pass around each tier of pulleys successively, means for moving said flexible element at a predetermined rate of speed, a single track paralleling said flexible element and spaced a slight distance from said flexible element and on a level with said flexible element throughout its entire course except at one point where said track is discontinued to provide a sudden drop-off, a plurality of identical equally-spaced dough carriers, each carrier having a lateral arm portion hinged on said flexible element, means holding each of said carriers from sliding longitudinally with respect to said flexible element, said carriers resting centrally on and sliding along said track while being held balanced on said track and pulled along by said flexible element, each of said carriers swinging suddenly and momentarily from horizontal position to vertical position when reaching said drop-off point of said track, and an inclined portion of said track starting below said flexible element at said drop-off point and leading upwardly and outwardly until reaching the normal position of said track with respect to said flexible element to cause each of said carriers to swing back up to normal horizontal position of travel while being pulled along over said inclined portion of said track, whereby pieces of dough when deposited on said carriers after said carriers have passed beyond said inclined portion of said track will be carried along for the length of time required for said flexible element to complete its course up to said drop-off point and will then be discharged from said carriers at said drop-off point.

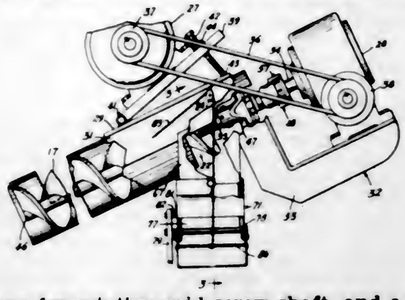
2,664,189

CONVEYER FEED MECHANISM

George L. Hager, Rockford, Ill.

Application February 9, 1948, Serial No. 7,097
6 Claims. (Cl. 198—213)

1. A conveyer comprising a screw having a shaft at one end, a tube for housing said screw, said tube being formed with an opening in its upper surface adjacent one end and with an elongated narrow slot along the top of the tube intermediate its ends, at least one of the edges of the tube defining said opening adjacent one end extending upwardly and transversely of the axis of the tube inward in a smooth curve to merge smoothly with an edge defining said elongated slot, said upwardly extending edge extending transversely of the axis of the tube inward angularly between the direction of the axis of the tube and the direction of the convolutions of the screw at the top of the screw, driving



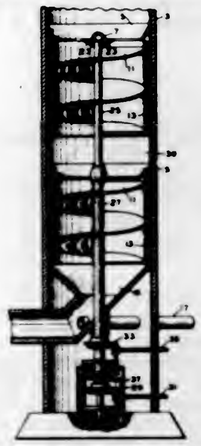
means for rotating said screw shaft, and a universal joint disposed between said driving means and said shaft supporting said shaft within the tube and permitting displacement of said screw transversely of the axis of the tube.

2,664,190

FLOW CONTROL APPARATUS

Daniel M. Vesper and Harold L. Edwards, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application December 27, 1949, Serial No. 135,226
6 Claims. (Cl. 198—215)



1. Flow control apparatus which comprises in combination, a tower, a plurality of serially connected up-right enclosed rotatable spiral chutes spaced apart and disposed one above the other in said tower, means to support and individually rotate such chutes, funnel type baffle means intermediate adjacent ends of said chutes and opening into the upper end of the lower said chute of each adjacent pair, and a hopper at the lower end of the lowermost said chute.

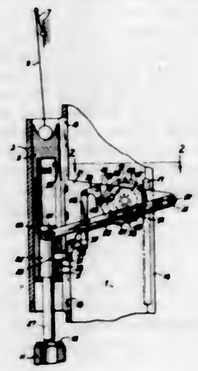
2,664,191

DRAWING PRESS

Otto Hermann May, Schwabisch Gmund, Germany

Application February 28, 1949, Serial No. 78,765
Claims priority, application Switzerland August 24, 1948
7 Claims. (Cl. 113—38)

1. A drawing press comprising a frame, a main ram, a crank and a connecting rod for reciprocating the main ram between extended and retracted positions, an auxiliary ram reciprocating with respect to the main ram from extended to retracted positions with respect thereto, supporting means movable with the main ram, a latch mechanism for locking the auxiliary ram in extended position or unlocking it and carried upon said supporting means, an oscillating link pivoted to the support and having an operative connection with the auxiliary ram, a crank and cam on the



support, the crank having a slotted connection with said oscillating link and the cam being operative upon said latch mechanism, a ratchet and pawl device operating said crank and cam, and a gear rotatable on the support for operating said ratchet and pawl and cooperating with a rack on the frame, the ratchet and pawl device being inoperative to drive the crank and cam mechanisms during advance of the main ram but being operative to drive them during retraction of the main ram.

2,664,192

BLADE DISPENSING PACKAGE

Joseph Muros, Newtonville, Mass., assignor to The Gillette Company, a corporation of Delaware

Application December 29, 1947, Serial No. 794,344
2 Claims. (Cl. 206—16)



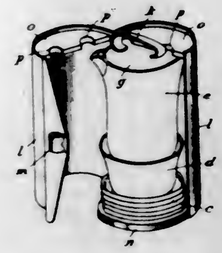
1. A package of individually unwrapped safety razor blades comprising a flat strip folded upon itself along three transverse lines of folding to provide a carrier element doubled over upon itself, an intermediate body portion and a cover, a series of blades sheathed between the doubled over carrier element and the intermediate body portion, the blades being detachably secured to an underlying surface of the carrier element, the uppermost blade in the series lying directly in contact with the carrier element and projecting outwardly from the fold vertex of the carrier the greatest distance with each successive underlying blade end being stepped inwardly.

2,664,193

ACCOMMODATION AND STORAGE OF CROCKERY

Otto Koch, Selb-Ploesberg (Oberfranken), Germany, assignor to Rosenthal-Porzellan A. G., Selb (Oberfranken), Germany, a German firm

Application June 18, 1951, Serial No. 232,084
4 Claims. (Cl. 206—46)



1. A device for the storage and transport of crockery comprising, in combination, a pile of crockery consisting of a plurality of flat and hollow utensils placed inside one another, a jug inserted into the uppermost utensil and having a lid provided with bow-shaped handle and a number of cups arranged within said jug and piled on one another, and a receptacle adapted to receive said pile of crockery consisting of two half cylinders of a shape corresponding to the height and form of the complete pile and being hinged to be capable of being opened and closed and provided at the top with a cover plate which has recesses for said bow-shaped handle which serves the purpose of a carrying handle for the receptacle.

2,664,194

CONTAINER AND SPOOL FOR LEADER LINES AND THE LIKE

Ewing L. Sharp, Beverly Hills, Calif.

Application July 24, 1950, Serial No. 175,554
3 Claims. (Cl. 206—52)



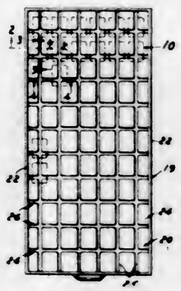
1. An annular casing of a size rotatably to support a leader reel therein, the casing being diametrically divided into two identically shaped parts, one part having a cylindrical flange extending therefrom for insertion into the other part tightly to fit the parts of the casing together, and a leader clamping element shaped to fit the outer periphery of the casing, the two parts of the casing having guides rising from the peripheral surfaces thereof for mutual axial alignment, the clamping element being insertable within said guides when the parts of the casing are pushed together to lock the parts against relative rotation.

2,664,195

FILING EQUIPMENT FOR IDENTIFICATION BADGES

Harold S. Mues, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York

Application December 11, 1950, Serial No. 200,217
1 Claim. (Cl. 206—72)



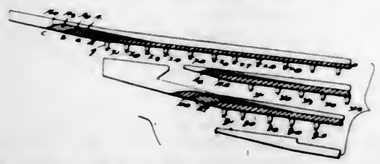
The combination with a plurality of badges, each having a pin on the reverse side thereof and having a clasp on said reverse side engageable with the free end of said pin, of means for filing said badges comprising a panel supporting said badges in side by side relationship with the reverse sides thereof resting on the top surface of said panel, means for holding said badges against shifting movement relative to said panel in a direction normal to said pins comprising a first series of spaced parallel grooves in the top surface of said panel extending parallel to said pins and receiving said pins but being of a width insufficient to receive said clasps, and means for holding said badges against shifting movement relative to said panel in a direction parallel to said pins comprising a second series of spaced parallel grooves extending normal to said pins and receiving said clasps.

2,664,196

PROCESS AND PLANT FOR THE MECHANICAL PREPARATION OF COALS AND MINERALS BY WASHING IN A PLURALITY OF CHUTES

Antoine France, deceased, late of Liege, Belgium, by Adolphe Detienne, executor, Liege, Belgium, assignor to Rheo-France Compagnie Internationale des Rheolaveurs A. France, societe anonyme, Liege, Belgium, a Belgian company

Application May 29, 1952, Serial No. 290,676
1 Claim. (Cl. 209—18)



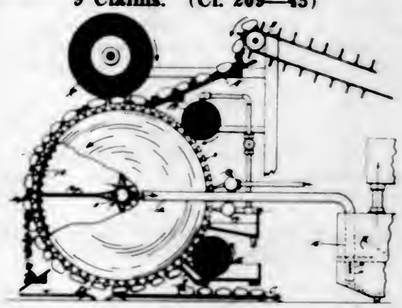
In a plant for the mechanical preparation of coals and minerals by washing with water and extracting the dense materials; a plurality of downwardly sloping chutes positioned in spaced relation one above the other for receiving wet material made up of the material to be washed and the washing water, the lower chutes receiving wet material from the chute above; a plurality of evacuators positioned longitudinally in spaced relation along the bottoms of said chutes for discharging the heavy products, each of said evacuators including a fixed member mounted to the exit end of said evacuator and a slidable member mounted to said exit end, said two members having inclined facing surfaces converging downwardly forming when separated an orifice having the shape of a truncated cone; electromagnetically operated means operably connected to said slidable member for actuating individual evacuators; a plurality of circuit closing means each associated with a portion of said evacuator actuating means, a portion of said circuit closing means including electrodes spaced longitudinally along the uppermost chute for contact with wet material in said chute as the level of the wet material reaches the various electrodes and effects energization of the respective evacuator actuating means to lower the level of said wet material whereby, as the level of the wet material in said uppermost chute rises, a progressively greater number of electrodes are contacted and a progressively greater number of evacuators are actuated in predetermined groups in at least two of said chutes to control the level of the wet material in said last mentioned chutes; and the remainder of said circuit closing means further including electrodes spaced longitudinally along each of the lower chutes for effecting the actuating of an increasingly greater number of the evacuators of the lower chutes as the level of the wet material in the lower chutes grows increasingly higher.

2,664,197

VACUO-PNEUMATIC APPARATUS FOR SEPARATING VEGETABLES, FRUITS, AND/OR OTHER BODIES

William T. Pfister, Los Angeles, Calif.

Application December 26, 1950, Serial No. 202,628
9 Claims. (Cl. 209—45)



1. The combination, in a given-body sorting apparatus, of a horizontal axis, hollow, running drum structure having an exterior mattress, means for maintaining a suction within the interior chamber of said drum structure, and vacuum valves in the cups connecting the said chamber to the cavities of the cups to effect pneumatic adhesion of imposed, cup-closing bodies which are to be sorted, and means for feeding said bodies to a desired area of the drum structure; said cups having flexible, object conformative lips, and presser means for yieldably pressing the sortable bodies onto the cups to close the same and effect operation of the valves by said bodies.

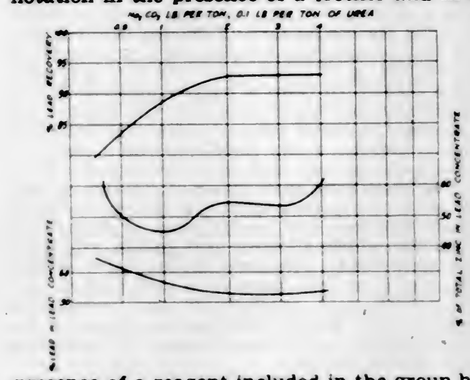
2,664,198

DIFFERENTIAL FROTH FLOTATION PROCESS

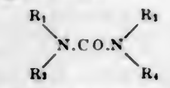
Pierre R. Hines, Portland, Oreg.

Application December 26, 1950, Serial No. 202,643
4 Claims. (Cl. 209—167)

1. A method of differential froth flotation which comprises subjecting an aqueous alkaline pulp of an ore containing lead and zinc to froth flotation in the presence of a frother and in the



presence of a reagent included in the group having the following formula:



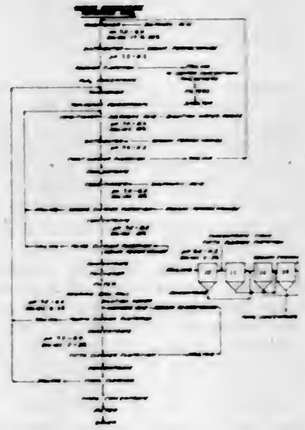
where R_1 and R_3 are hydrogen atoms and R_2 and R_4 are members chosen from the group including hydrogen, aliphatic radicals and aromatic radicals, and removing therefrom a concentrate containing lead and a tailing rich in zinc.

2,664,199

FLOTATION RECOVERY OF MOLYBDENITE

Lyle M. Barker, Clifton, and Orel E. Young, Morenci, Ariz., assignors to Phelps Dodge Corporation, New York, N. Y., a corporation of New York

Application August 27, 1952, Serial No. 306,638
12 Claims. (Cl. 209—167)



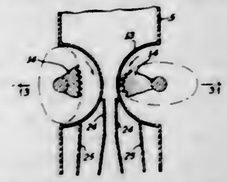
1. A process for recovering molybdenite directly from a flotation concentrate containing a small amount of molybdenite and larger amounts of sulfides of other metals, such as copper and iron, which comprises: subjecting said concentrate to a succession of flotations with a water-soluble, iron-cyanide compound in a mildly alkaline medium, and to a final flotation with a water-soluble cyanide in a strongly alkaline medium.

2,664,200

APPARATUS FOR ELECTROMAGNETIC SEPARATION OF WET ORES

Augustin L. J. Queneau, Morristown, N. J.

Application September 9, 1950, Serial No. 184,000
1 Claim. (Cl. 209—219)



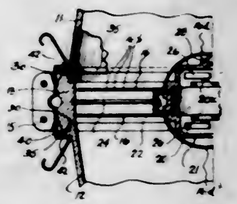
In an apparatus for the wet electromagnetic separation of materials consisting of mixtures of magnetically susceptible materials varying substantially in their magnetic susceptibilities such as mixtures of magnetite and hematite, a vertically extending separator box provided with enclosing side and bottom walls for receiving and maintaining a liquid suspension of such material under a controlled hydrostatic head, means defining a restricted discharge opening in the bottom portion thereof through which to maintain a controlled discharge of residue of said liquid suspension, said box having opposite side wall portions provided with opposed inwardly extending arcuate recesses defining between them a narrow throat, an electromagnet including rotatable pole pieces of substantially elliptical cross-section disposed within said opposed recesses and cooperating to maintain a magnetic field throughout the expanse of said throat, said rotatable poles being positioned substantially 90° out of phase with respect to each other so that as they rotate the major axis of the elliptical cross-section of one pole passes through the plane of the axes of the poles simultaneously with the minor axis of the elliptical cross-section of the other pole, said poles being effective to increase the field intensity alternately at one and then the other side of said throat while simultaneously decreasing the field intensity at the opposite side thereof, thereby urging magnetic particles attracted to the side of the recess disposed within said field of increased intensity along said side downwardly and laterally away from said throat, and means providing a separate discharge passage for attracted particles that are moved laterally away from said throat.

2,664,201

FLOUR SIFTER VIBRATED BY ELECTRIC MOTOR HAVING AN UNBALANCED SHAFT

David L. Dunn, Seattle, Wash.

Application November 7, 1949, Serial No. 125,893
2 Claims. (Cl. 209—332)



1. In a sifter of the character described, a sifter unit comprising an annular frame member defining an opening for the passage of siftable material from one side of the said frame member to the other, an electric motor disposed

within said opening; said motor having an unbalanced shaft disposed substantially coaxially of said opening and with its axis parallel to the axis of the annular frame member, a housing enclosing and supporting the electric motor and spaced from the annular frame member, a resilient shock ring encircling and fixed to the said housing in the plane of the annular frame member, a support for the motor housing attached to the annular frame member and to the shock ring, and a sifting screen supported by the motor housing for vibratory action under the influence of vibratory action of the motor and bridging the space between the motor housing and the annular frame member, and the said motor housing being positioned in the plane of the sifting screen.

2,664,202

LUBRICANT AND METHOD OF MAKING SAME

John D. Bartleson, Cleveland, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application December 22, 1949, Serial No. 134,621

8 Claims. (Cl. 210—42.5)

1. A method of improving the color of lubricants and lubricant additives which are reaction products of 5 to 60% by weight of a phosphorus sulfide and 95 to 40% of a mixture of one part by weight of an oxygen-containing organic compound reactive with phosphorus sulfide and selected from the group consisting of those compounds containing hydroxy, carbonyl, ether and carboxy radicals, and having a boiling point of at least 225° F. with 1 to 10 parts of a poly-olefin capable of improving the viscosity index characteristic of a lubricating oil, reacted together at a temperature in the range of 225° to 500° F., which method comprises treating such reaction products with an amount of adsorbent decolorizing agent in the range of 1 to 10% by weight of the reaction mixture and sufficient to improve the color of the reaction product, said decolorizing agent having a water content in the range of 0 to 6% by weight, and recovering improved reaction product.

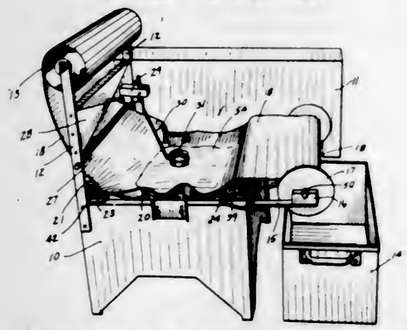
2,664,203

LIQUID FILTER DEVICE

Victor S. Crane and Paul R. Honan, Lebanon, Ind., assignors to Delpark Corporation, Lebanon, Ind., a corporation

Application March 9, 1950, Serial No. 148,711

7 Claims. (Cl. 210—196)



1. A liquid filter including a tank for receiving filtered liquid, a roll of expendable filter media mounted at one side of said tank, a winding reel for said media mounted at the opposite side thereof, an endless perforated conveyor supporting said media, driving rolls at each end of said tank for mounting and driving said conveyor, a lifting element on said tank over which opposite sides of said conveyor ride for causing it to sag therein to form a pocket, mechanism for periodically rotating said rolls at the same speed of rotation to move said conveyor and maintain the sag therein, a slip clutch operably connecting said mechanism and reel for normally driving said reel at the same speed of rotation as said rolls while permitting slippage thereof to compensate for increase in diameter of the rolled media for jointly moving said media and conveyor to present a fresh section thereof over said tank, and a control member in said pocket connected with said mechanism for periodically rendering said driving mechanism operative depending upon the accumulation of unfiltered liquid in said pocket.

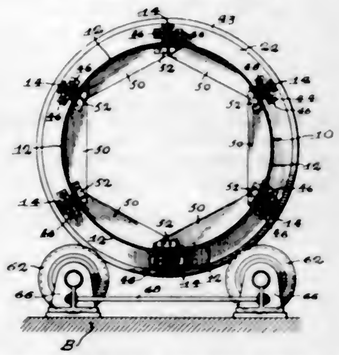
2,664,204

ROTARY DRAINAGE SCREEN

Alfred T. Hurter, Montreal, Quebec, Canada, assignor to Stadler, Hurter & Company, Montreal, Quebec, Canada

Application June 8, 1950, Serial No. 166,825

1 Claim. (Cl. 210—199)



An apparatus for the draining of excess water from water soaked bark comprising a cylindrical drum having an elongated main body, means supporting said drum exteriorly for rotation about an horizontal axis, said drum body consisting of a plurality of elongated perforated plates of arcuate cross section interconnected along the longitudinal marginal edges by attachment to a plurality of longitudinally extending reinforcing beams disposed in equal radially spaced apart relationship about the exterior of said drum body, said drum having an unrestricted discharge outlet equal to the internal diameter of said drum disposed at one end and a centrally disposed unrestricted inlet opening of considerably lesser diameter at the other end, a plurality of deflector members mounted within said drum in regular spaced apart relationship and in a helical formation extending about a major portion of the longitudinal axis of said drum with the ends of the deflector members overlapping circumferentially, each of said deflecting members having a lower marginal edge shaped to conform with the internal curvature of said drum with the upper marginal edge being straight so that each member is adapted to effectively block off a semicircular segment of said drum's inner peripheral surface and means to rotate said drum comprising a sprocket gear surrounding the inlet end of said drum, a sprocket chain, motor means to drive said sprocket chain, said sprocket gear consisting of a plurality of separate arcuate toothed segments each carrying a plurality of teeth and being mounted in equally spaced apart relationship about said drum end and means whereby each of said sprocket gear segments are adjustable radially.

2,664,205

PAPER STORAGE AND MANIFOLDING DEVICE

Norman C. Shellman, Wilmette, Ill.

Application July 29, 1950, Serial No. 176,709

2 Claims. (Cl. 211—55)



2. A device for the purpose described comprising an enclosure having connected bottom and side walls, a cover comprising an integral top and rear wall hinged to one end portion of the bottom wall to dispose said top wall a predetermined distance below the top edges of the side walls, said bottom wall at its one end portion adjacent the hinge connection extending upwardly parallel to said rear wall and bent back upon itself to provide an inclined wall with respect to said bottom wall within said enclosure, a plurality of superimposed shelves arranged between said side walls in parallel relation with respect to each other and having corresponding outer end portions extending upwardly and outwardly beyond said top and side walls, the opposite end portions of said shelves being hinged at predetermined spaced apart points to said inclined wall to dispose said exposed ends thereof in step relation with respect to each other, and means carried by said shelves for limiting the distance of projection of sheets of paper thereon within said enclosure, said last-named means comprising upwardly extending fingers slidably arranged in slots formed in said shelves adjacent their hinged connections to said inclined wall.

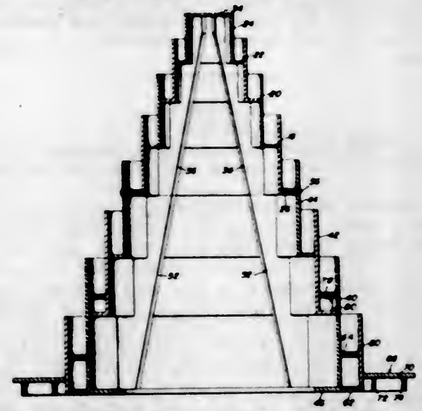
2,664,206

MAGAZINE DISPLAY FIXTURE

Louis E. Beal, Detroit, Mich.

Application August 22, 1950, Serial No. 180,739

2 Claims. (Cl. 211—55)



2. In a display fixture, the combination of a plurality of circular units disposed in vertically nested relation and each including a cylindrical side wall and an outturned horizontal flange at the lower edge thereof, the flange of an upper unit being secured to an intermediate portion of the side wall of the next lower unit, the upper portion of the side wall of such lower unit projecting above the flange of the next upper unit and being spaced outwardly from the lower portion of the side wall of the upper unit to afford a horizontally disposed annular channel having said flange at the bottom thereof.

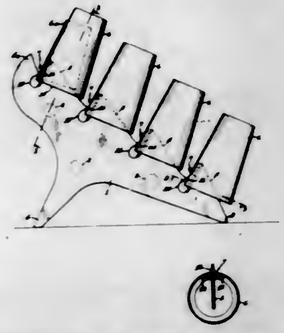
2,664,207

RACK FOR DRINKING GLASSES

Cesar Bustamante, Elmhurst, N. Y.

Application January 14, 1953, Serial No. 331,246

3 Claims. (Cl. 211—74)



1. A drinking glass rack having a frame, a support thereon for holding an individual drinking glass in inverted position, said support comprising a pair of horizontally spaced fingers disposed to engage the interior surface of the inverted glass above the rim thereof, a plate-like member having downwardly diverging edges disposed below said fingers and arranged to engage the rim of the glass at two spaced points whose positions depend upon the diameter of the glass, and a third finger disposed vertically intermediate said spaced fingers and the rim engaging portions of said plate-like member and horizontally midway between said pair of fingers and arranged to engage the exterior surface of the glass.

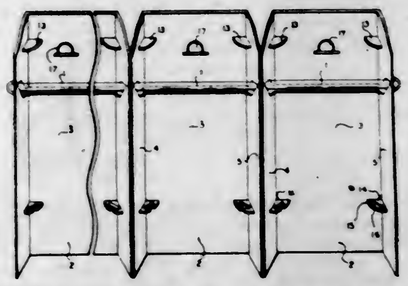
2,664,208

SEPARATING ENCLOSURE FOR TOWEL RACKS

Henry B. Goodman, New London, Conn.

Application April 4, 1949, Serial No. 85,440

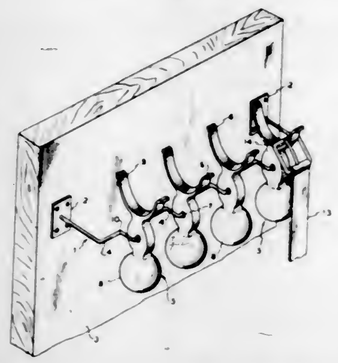
1 Claim. (Cl. 211—87)



An enclosure for a towel rack as described comprising a back wall connected to a pair of side walls with a slot formed in the back wall and ex-

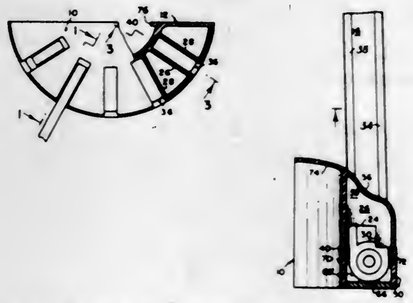
tending into the side walls, the peripheral edge of said side walls, except at the edge joining the back wall being enlarged and rounded and having V-shaped corrugations whereby the side of adjacent enclosures may engage each other.

2,664,209
ARTICLE SUPPORT
Mary C. Davidson, Washington, D. C.
Application July 30, 1951, Serial No. 239,208
1 Claim. (Cl. 211—99)



An article supporting rack comprising a supporting rod and a plurality of perforated article supporting members, each of said members having two upstanding hook arms spaced apart in the same plane and having an integrally molded weight in a depending portion, said rod projecting through the perforations in each member between the upstanding arms and depending portion thereof to pivotally support each of said members for movement in a plane transverse to the axis of the supporting rod with the rod being formed about each member to provide a combined bearing and spacing portion for each member.

2,664,210
TOWEL RACK
Albert J. Roger, San Leandro, Calif.
Application September 30, 1949, Serial No. 118,779
9 Claims. (Cl. 211—100)



5. A towel rack comprising, in combination: a rigid integrally formed supporting member and a rigid integrally formed straight arm; the arm being of generally uniform cross section transverse the direction of its length and having a pair of hubs extending on a common axis perpendicularly to the arm length from opposite sides of the arm adjacent one end thereof, the supporting member providing a pair of opposed walls partially defining a pocket having facing surfaces, said facing surfaces being spaced apart a distance sufficient to allow the arm to pass therebetween in the direction of its own length, the supporting member further providing a pair of parallel webs and providing a straight extension of one of said pocket walls integral with the pocket wall defining a channel slot leading to and from the pocket to a vertical direction, said parallel webs being spaced apart a distance slightly greater than one dimension of the arm cross section, the webs having portions defining two abutments for each of the hubs, one of said two abutments being aligned for engaging the hubs in movement thereof parallel to the walls, and the other of the two abutments being aligned for engaging the hubs in movement thereof perpendicularly to the walls.

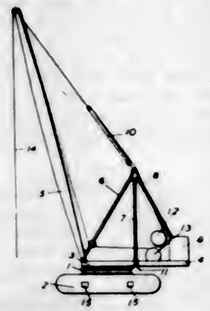
2,664,211
CLOTHESLINE SUPPORT
Arnold O. Lindstrom, Republic, Wash.
Application December 8, 1951, Serial No. 260,626
4 Claims. (Cl. 211—119.15)



4. A clothes line support comprising a post having a lower section and an upper section slidable vertically from a lowered position to a raised position, a cross bar mounted across the upper end of said upper section, a pinion carried by said cross bar, and a rack bar carried by and extending vertically above the upper end of the lower section and engaged by the pinion to rotate the cross bar and tighten a clothes line about the cross bar during upward movement of the upper section.

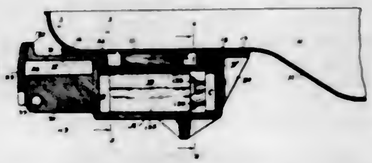
2,664,212
CRANE
Noel Gonne Bell, London, England
Application November 16, 1950, Serial No. 195,986
1 Claim. (Cl. 212—59)

A mobile crane comprising, in combination, a base, a table supported on the said base, the said table being constituted by a front part and a rear part jointed together adjacent the rear point of the said support, a jib and a front mast mounted on the front part of the said table, a backtie and an engine together with at least one drum mounted on the rear part of the said table, and a centre mast connecting the said table joint with the top junction of the said front mast and backtie, whereby the said rear part of the table along with the said engine and drum, centre mast and backtie and front mast may serve as a temporary derrick, the said front mast for this purpose being detached from its normal position



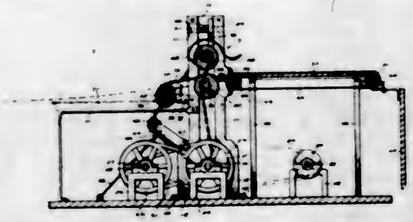
and its lower end being pivotally mounted at the foot of the centre mast to constitute a jib.

2,664,213
MINE CAR DRAFT RIGGING
Carl A. Anderson, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application March 28, 1952, Serial No. 279,055
9 Claims. (Cl. 213—50)



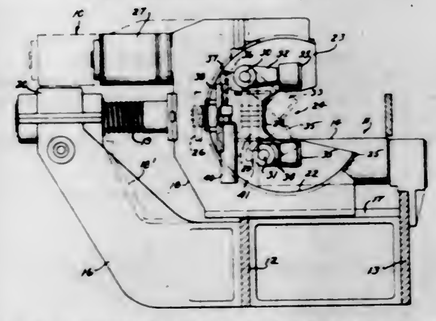
1. In a railway draft rigging, the combination with front and rear stops; of a yoke structure movable lengthwise of said rigging; shock absorbing means within said yoke structure; followers within said yoke structure at the front and rear of said shock absorbing means, said followers cooperating with said front and rear stops, respectively; fixed guides at opposite sides of said rigging; and laterally projecting, lengthwise extending flanges on said yoke structure engaged over said fixed guides.

2,664,214
DOUGH CONVEYER
Leroy V. Lewis, Hollywood, Fla.
Application August 23, 1950, Serial No. 180,946
1 Claim. (Cl. 214—1)



A conveying device for use with a dough rolling machine that has a discharge end, the combination with a fixed inclined discharge apron that spans the discharge end of the machine to receive rolled dough articles from the machine and a conveying device for receiving and conveying dough articles away from the discharge apron, the conveying device consisting of a roller having a shaft that extends beyond the opposite ends of the roller, a pair of arms for removably and rotatably receiving the extended ends of the shaft, the arms being pivotally supported upon the dough rolling machine at opposite sides of the discharge end, spring means connected with the arms and the dough rolling machine for urging the arms to swing upwardly, a textile belt wound upon the roller with the roller and its supported wound textile belt arranged beneath the discharge apron and with the wound belt frictionally maintained in contact with the underside of the apron by the spring means for the arms, the belt having a width corresponding to the major width of the discharge apron, the belt adapted to be manually unrolled and fed forwardly for conveying progressively rolled dough articles being progressively discharged from the discharge apron, the belt being maintained in frictional contact with the discharge apron continuously as it is unrolled.

2,664,215
MATERIAL HANDLING APPARATUS
Hermann A. Bottenhorn, Flushing, N. Y., assignor to Hydropress, Incorporated, New York, N. Y., a corporation of Delaware
Application November 2, 1950, Serial No. 193,717
8 Claims. (Cl. 214—1)

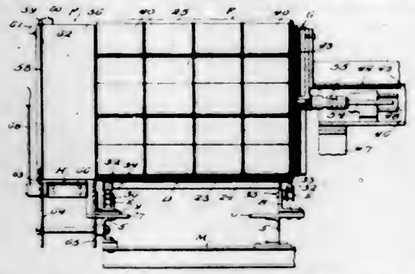


1. In a material handling apparatus for turning elongated articles about their longitudinal axes; a frame turnable in a lateral plane and having an aperture therein for loosely receiving an article, means for rotating said frame, a gripping roller rotatable on said frame about an axis fixed relative to the latter and disposed in a lateral plane, said gripping roller extending into said aperture, and swingable gripping rollers rotatable about axes in lateral planes and mounted on said frame to swing about longitudinal axes adjacent the opposite ends of the first mentioned roller for movement across said aperture toward said first mentioned roller thereby forming triangles of contact with the latter for turning an article with said frame while permitting longitudinal movement of the article.

2,664,216
CAN BAG UNLOADING METHOD AND APPARATUS
Scott R. Johnson, River Forest, and Edwin G. Blaing-Leisk, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application June 20, 1949, Serial No. 100,268
13 Claims. (Cl. 214—8.5)

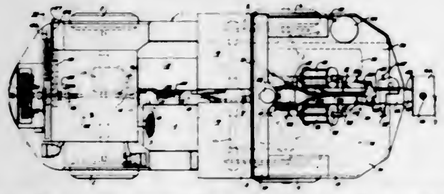
1. A method of unloading cans from a bag wherein the cans are arranged in multiple independent tiers each composed of a plurality of can rows with the can axes in parallel relation, the

method comprising removing at least one face only of the bag to expose can sides through the open bag side, confining the bag with the exposed cans in a confining mold with a wall of the mold closing over the open bag side and contacting the cans exposed through said open bag side, the can axes being in substantially upright position, tilting the mold with the bag and cans therein to



place the cans with their axes in generally horizontal position, removing the bag from the cans to leave them confined against rolling in the mold, then pushing said cans in the direction of their axes to discharge them tier-by-tier from the mold directly and in horizontal position onto a roll away surface to roll away by gravity action tier-after-tier.

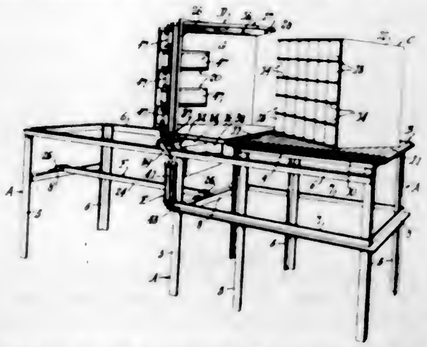
2,664,217
MINE SERVICE VEHICLE
Einar M. Arentzen, Mount Lebanon, Pa., assignor to Lee-Norse Company, Charleroi, Pa., a corporation of Pennsylvania
Application October 13, 1949, Serial No. 121,193
9 Claims. (Cl. 214—149)



1. In a mine vehicle, a vertical post, a bracket mounted on the post and rotatable relative to the vehicle on a vertical axis, a telescoping boom extending laterally away from the bracket, means pivotally connecting the larger end of the boom to the bracket on a horizontal axis, a timber support pivotally mounted on a horizontal axis on the outer end of the boom, extensible means pivotally connected at its ends to the bracket and boom on horizontal axes for swinging the boom upward, means for extending the telescoping boom lengthwise, and means for holding said timber support horizontal as it is elevated by the boom to set a timber overhead in a mine, said last-mentioned means being extensible with the boom to hold the timber support horizontal regardless of the length of the boom.

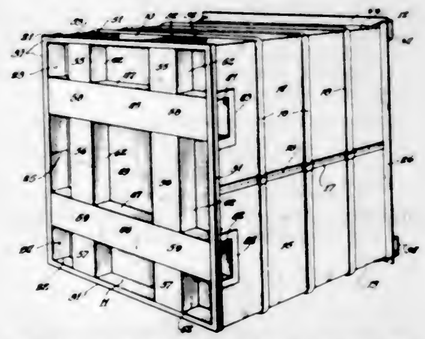
2,664,218
CAN BAG UNLOADING APPARATUS
Scott R. Johnson, River Forest, and Edwin G. Blaing-Leisk, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application June 20, 1949, Serial No. 100,267
12 Claims. (Cl. 214—307)

1. In apparatus for unloading cans from a bag wherein the cans are arranged with their axes in parallel relation and in multiple independent tiers, a receiver in which to receive a bag of cans from which a wall of the bag has been removed to expose cans at their sides and including a V-shaped bottom in which to receive a corner of the bag wherein the cans are exposed at their sides and at least one end wall bearing perpendicular relation to said bottom, means mounting said receiver for tilting movement between an elevated position in which said end wall is substan-



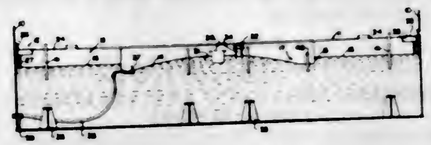
tially horizontally disposed for receiving a bag of cans and a lowered position in which the apex of the bottom V is substantially horizontally disposed, discharge gateway means formed in at least one V-bottom wall, and gate means controlling the gateway means normally disposed to hold cans in the bag but displaceable to allow all of the cans in the several tiers to run out simultaneously through said gate means by gravity action.

2,664,219
STORAGE AND UTILITY BOX
Thur Schmidt, Chicago, Ill.
Application October 23, 1952, Serial No. 316,345
3 Claims. (Cl. 220—1.5)



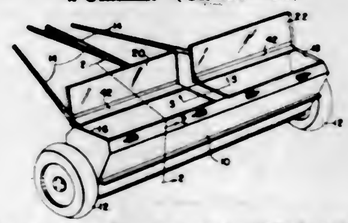
1. A storage and utility box comprising, in combination, a bottom member consisting of a flat plate and four transverse frame members secured thereunder; said frame members being arranged in parallel pairs spaced apart from each other and intersecting at four junctions within the box; each of said frame members comprising a flat bottomed channel with upstanding side walls secured to the under side of the bottom plate; said side walls of the channels being interrupted at the said junctions to provide open ducts through both pairs of frame channels; together with four side walls of the box surrounding said bottom and perpendicular thereto, said side walls each having an upper reinforcing rim and a lower reinforcing rim extending therearound, with a pair of fork tine ports in each wall adjacent the lower edge thereof in opposite pairs on the opposite sides of the box and in registry with the opposite ends of each pair of said bottom frame channels.

2,664,220
FLOATING ROOF CONSTRUCTION FOR TANKS
Howard O. Cord, Chicago, Ill., and Bruce G. Merten, Munster, and Frank E. Klapheke, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application October 23, 1950, Serial No. 191,648
7 Claims. (Cl. 220—26)



1. An apparatus for storing volatile liquids comprising a cylindrical shell, a roof member vertically movable in the shell, a contact shoe seal between said shell and said roof, a peripheral recess in said roof member, and an inflated deformable annular cell means having its inner peripheral portion within the said recess to provide a flexible and extendable support for said contact shoe between said roof and said shell.

2,664,221
LID CONSTRUCTION FOR MATERIAL SPREADERS
Robert Edward Seltzer, Bellevue, Ohio, assignor, by mesne assignments, to Spred-All, Inc., Bellevue, Ohio, a corporation of Ohio
Original application September 14, 1949, Serial No. 115,595. Divided and this application February 13, 1952, Serial No. 271,358
2 Claims. (Cl. 220—32)



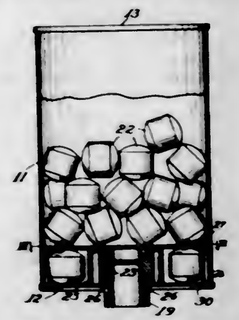
1. In a spreader for granulated agricultural materials: an elongated hopper having a filling opening at the top, said top having an upstanding peripheral edge, said edge being rolled inwardly and downwardly in a rounded manner, a reversible elongated lid for closing said opening and having a dependent marginal flange to fit around the outside of said upstanding edge when the lid is closed, separable hinge means on one longitudinal side of said lid and on both longitudinal sides of said hopper whereby the lid can be hinged to either side of the hopper, means for holding said lid in open position on either side of said hopper and in a substantially perpendicular relation to the plane of the top of said hopper, said means comprising an elongated clip secured at one end to the underside of said lid and having a hooked portion at the other end thereof, said hooked portion lockingly engaging the underside of the adjacent peripheral edge when said lid is in open position, said clip comprising a strip of material extending the full length of said hopper and together with said lid in open position forming a means for deflecting said granulated material into said hopper and for preventing said latter material from lodging between said lid and the top edge of said hopper.

2,664,222
CYLINDER BOSS ASSEMBLY
Lewis O. King, Willoughby, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application August 24, 1949, Serial No. 112,117
2 Claims. (Cl. 220—66)



1. A pressure cylinder boss comprising a first cup-shaped member having an apertured bottom wall and a radially outwardly extending flanged rim, a second cup-shaped member having an apertured bottom wall overlying and engaging the bottom wall of said first member and having a side portion surrounding and engaging with the side of said first member, an internally threaded collar having a necked down portion extending through said member apertures, the radius of curvature of the intersection of said bottom and side portion of said first cup exceeding that of the second cup, said members and collars being brazed together to form a unitary cylinder boss.

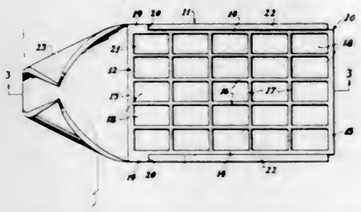
2,664,223
CAN WITH BUILT-IN DISPENSER
Israel Todd Dobkin, Pittsburgh, Pa.
Application May 20, 1950, Serial No. 163,209
1 Claim. (Cl. 222—9)



A sealed can tablet dispenser comprising a cylindrical wall having a permanently sealed top and a permanently sealed bottom with a dispenser attached to the bottom, the tablets to be sealed in the can being positioned between the dispenser and the can top, said dispenser comprising a knob projecting through a central opening in the can bottom, an eccentric opening in the can bottom for the discharge of tablets, a wheel attached to the knob and movable in contact with the bottom, said wheel having circumferentially spaced tablet dispensing pockets, each pocket being arranged to register with the discharge opening, a strap extending diametrically

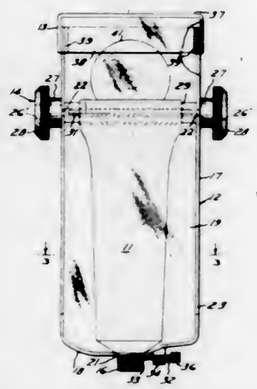
across the upper face of the wheel in alignment with the discharge opening, said strap having legs which are secured with the bottom of the can in the cylindrical wall and arranged to permit the wheel to rotate freely thereunder, and a flange integral with said knob projecting through the central opening of the can bottom and crimped against the bottom to hold the wheel in position against the inside of the can bottom.

2,664,224
CAPSULE COMPUTER AND DELIVERY DEVICE
William A. Winneberger, Philadelphia, Pa.
Application August 15, 1951, Serial No. 242,016
5 Claims. (Cl. 222—9)



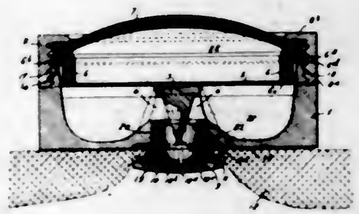
1. A capsule computer and delivery device comprising a compartmented cradle having a rear wall also functioning as a rear leg, front side legs at the forward end of said body, and a tray having a spout at the forward end and perpendicular side walls, said tray forcibly vertically slidably mounted on the cradle in a position whereby the rear end of the tray is closed by the cradle rear wall and the tray side walls overlap the cradle side walls and whereby the tray may be temporarily held in an elevated position to function as the bottom for the compartmented cradle and depressed to provide an exit under the cradle leading to the spout while the sides and rear remain closed.

2,664,225
DISPENSER FOR TOOTHPASTE AND LIKE MATERIALS
James A. Chokae, Richmond, Calif.
Application June 15, 1951, Serial No. 231,789
4 Claims. (Cl. 222—100)



1. A device of the character described comprising, an elongated housing having a bottom and an open top through which a paste container may be loaded into said housing, said housing having a substantially elliptical cross-sectional form, said bottom including an aperture through which the open spout end of said container may be inserted, said housing further having a pair of slots extending along the length of said housing and being disposed substantially at the vertices of said ellipse, means on said housing engageable with said spout exteriorly of the housing for releasably securing the spout to the latter, means movable in said slots and engageable from exteriorly of the housing for engaging a closed end of said container and winding the latter therearound, said means including a substantially flat bar member and a sleeve member rotatable around the bar member, and said sleeve member including an axially extending peripheral slot through which said closed container end may be inserted.

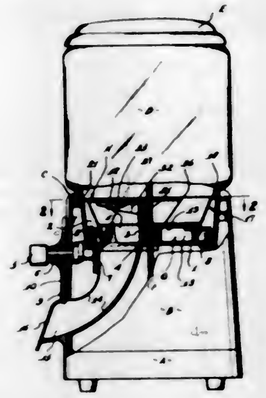
2,664,226
POWDER DISPENSER FOR ATTACHED POWDER PUFF
René Gaston Gobin, Paris, France, assignor to Jacques Lory, Paris, France
Application May 3, 1950, Serial No. 159,730
Claims priority, application France May 18, 1949
3 Claims. (Cl. 222—193)



1. A powder sprayer comprising a box having on its bottom a projection formed with an axial bore, presenting a small exit orifice, radial partitions in said box, said partitions having openings therebetween near the centre of the box giving communication with the said axial bore, an axial inverted cone disposed in said box so that its base limits the openings between the partitions whilst its apex penetrates the said bore into the neighbourhood of the said exit orifice, and air forcing means fixedly mounted on the box and adapted for forcing air from the box through said openings and into said bore.

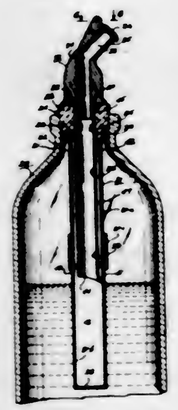
2,664,227
VENDING MACHINE
Harold Thomas Probasco, Inglewood, Calif., assignor to Oak Manufacturing Company, Inc., Los Angeles, Calif., a corporation of California
Application April 27, 1950, Serial No. 158,468
3 Claims. (Cl. 222—348)

1. In a vending machine: the combination with a horizontally disposed rotatable dispenser formed with a shallow receptacle for receiving articles from a container thereabove, of a fixture formed with a horizontal web overlying a segment of said receptacle and having a recess in a portion thereof, a plurality of parallel arms of flat cross section coaxially hinged to said fixture at their rear extremities and normally disposed flatwise of said web in said recess, means for individually tensioning said arms to urge their forward extremities downwardly, and separate coiled wire detents anchored at their upper ends to the forward ends of said arms in radial alinement over said receptacle, said detents being free to yield bodily below and upwardly with said arms when



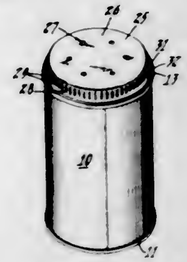
engaged by articles in said receptacle as the dispenser is rotated, so as to limit passage of articles thereunder and restrain passage of an excess number of articles in a dispensing operation.

2,664,228
MEASURING-TYPE POUR-SPOUT
Sidney P. Radeloff and Raymond J. Falcone, Philadelphia, Pa.
Application September 14, 1949, Serial No. 115,736
8 Claims. (Cl. 222—455)



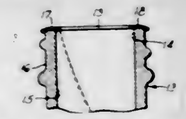
1. In a liquid dispensing device for use with a liquid container, a tubular measuring-chamber having container closure means at one end and imperforate at the other end and depending wholly within said container, a bore in said closure means, a conduit operatively connected to said bore with the inner end of said conduit disposed within said measuring-chamber and a portion of the periphery of the inner end of said conduit in contact with the inner wall of said measuring-chamber, a liquid outlet port in the side-wall of said measuring chamber near said closure means and an air inlet port in the side-wall of said measuring-chamber in radial juxtaposition to the inner end of said conduit.

2,664,229
DISPENSING CONTAINER WITH SIFTER TOP
George C. Erb, deceased, late of Flushing, N. Y., by Annie B. Erb, executrix, Flushing, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 10, 1949, Serial No. 126,642
4 Claims. (Cl. 222—548)



1. A dispensing container comprising a body, an end member secured to said body in an upstanding end seam the inner layer of said seam being a portion of said end member, a shoulder formed in only said inner layer of the seam and extending inwardly from said seam, a panel in said end member having a dispensing opening formed therein, a closure member having a perforate inner portion disposed in close sliding contact on said end member panel to cover and uncover said dispensing opening, and a marginal portion of said closure member projecting outwardly toward said end seam and engaging under said shoulder to retain said closure in place and in close sliding contact upon said end member.

2,664,230
NONDRIP FLUID DISPENSING VESSEL
Jacob G. Heim, San Gabriel, Calif.
Application July 23, 1948, Serial No. 40,212
4 Claims. (Cl. 222—571)

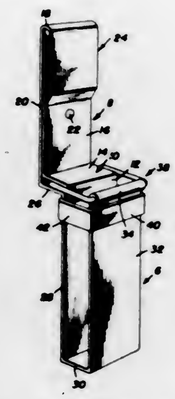


1. In combination: a fluid containing and dispensing vessel, said vessel having a base portion and a side wall defining a fluid containing chamber, said side wall terminating in a pouring opening to permit fluid to be dispensed from said vessel, said pouring opening having an inner edge and an outer edge and a top wall defining the termination of said side wall; and an unwettable pouring element adapted to be secured about said pouring opening comprising an annular disc having an inner edge portion overlapping the inner edge of said opening and a outer edge portion overlapping the outer edge of said opening, said inner and outer edge portions lying in substantially the same horizontal plane.

2,664,231
PLIERS HOLSTER
Marion C. La Mantia, Detroit, Mich.
Application February 1, 1952, Serial No. 269,443
2 Claims. (Cl. 224—26)

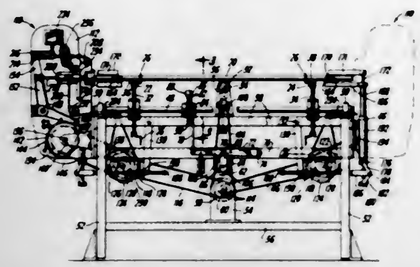
1. A holster for a pair of pliers comprising a single metal strap bent upon itself at one end to provide substantially U-shaped sheath and bent at its other end to provide a laterally off-

set upstanding hanger member with a loop and an intervening anchoring member between the hanger member and one of the limbs of said sheath, said anchoring member including spaced parts, a link having a portion slidable between said parts and another portion thereof hingedly



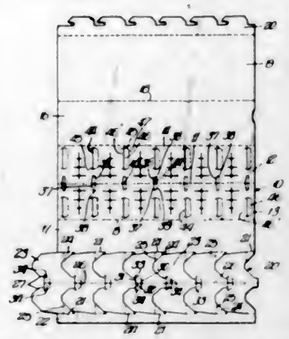
connected with the upper end of one of the limbs of said sheath, and a rigid U-shaped brace having end portions rigidly secured to one of said limbs and having a complemental bight portion embracing the remaining limb, the latter being possessed of inherent resiliency and constituting a retaining clip for pliers which are placed in the sheath.

2,664,232
TUBE CAPPING APPARATUS
Eric L. Midgley, Salem, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application October 10, 1951, Serial No. 250,617
6 Claims. (Cl. 226—87)



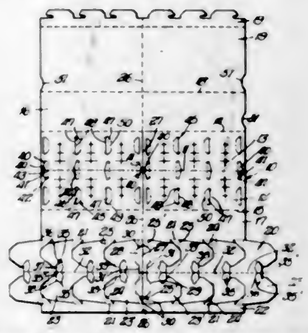
1. Apparatus for effecting closure of articles comprising: a conveyor; means for indexing said conveyor to carry the articles to a plurality of work stations; a punch located at one of the work stations; means for indexing a tape transversely between said punch and the adjacent end of an article at said station; means for reciprocating said punch to cut a wafer from the tape and affix it to the end of the article transversely thereof; a wafer-wrapping head located at a subsequent work station; and means for reciprocating said wafer-wrapping head into and out of engagement with the wafer on the end of the article to fold it back into contact with the side wall of the article.

2,664,233
EGG CARTON
Martin Burger, Morris, Ill., assignor to General Package Corporation, a corporation of Delaware
Application May 14, 1949, Serial No. 93,395
19 Claims. (Cl. 229—28)



1. A foldable egg carton comprising a bottom, front and rear wall connected to said bottom, an upstanding partition longitudinally sub-dividing the interior of the carton between said walls, a plurality of cross partitions positionable in upright position between said walls, said first named partition having longitudinally spaced elements projecting outwardly from a side surface thereof and at an angle to said surface to engage a surface area of said respective cross partitions in said upright position of the latter, said elements being hinged to said longitudinal partition by crease lines and being disposed in approximately side-by-side, surface contacting relation to said cross partitions when the carton is erected, and means connecting said cross partitions to said elements to vertically sustain said longitudinal partition, said means comprising elements integrally hinged to said cross partitions and engaging said longitudinal partition elements from beneath the same.

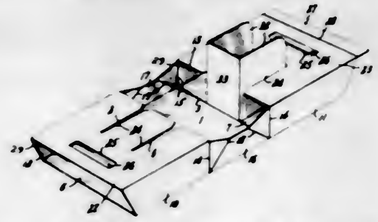
2,664,234
EGG CARTON
Martin Burger, Morris, Ill., assignor to General Package Corporation, a corporation of Delaware
Application December 29, 1949, Serial No. 135,804
21 Claims. (Cl. 229—28)



1. A paperboard egg carton comprising a bottom, front and rear walls connected to said bottom, an upstanding longitudinal partition connected to said bottom and disposed between said walls, and a plurality of cross partitions adapted

to be positioned in upright position between said walls, said longitudinal partition having supporting portions and said cross partitions having medially pivoted tabs extending thereacross substantially parallel to said longitudinal partition and in supporting engagement with said supporting portions.

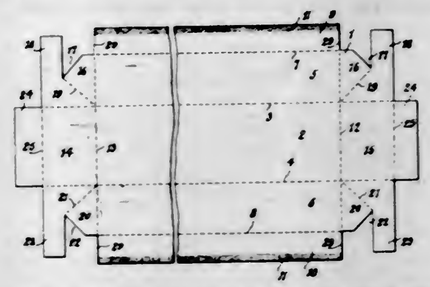
2,664,235
CARRIER CARTON
Charles L. Champlin, Ransom C. Ellsworth, and Robert J. Hickin, Rittman, Ohio, assignors to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio
Application December 11, 1951, Serial No. 260,994
5 Claims. (Cl. 229—28)



1. A carrier carton, comprising a body formed from a paperboard blank provided with cuts and folding scores defining a bottom wall having side and end edges, a pair of similar side walls extending from opposite side edges of said bottom wall, each of said side walls having its end edges each provided with an end wall member of a width substantially equal to one-half the width of the end edges of the bottom wall, whereby when said end wall members are arranged in pairs such pairs will provide full-width end walls, the end wall members of one pair being provided at their free edges with similar partition members, means for connecting the free edges of the end wall members of the other pair to the free edges of said partition members whereby said blank may be assembled into tubular form and may be erected by upward bending of said side wall members upon the folding scores defining the side edges of said bottom wall to bring said partition members into face-to-face relation and vertical to said bottom wall to provide a longitudinal partition, and a U-shaped transverse partition member supported by said bottom wall and having its U-legs upstanding transversely of said longitudinal partition, the partition members which together form such longitudinal partition being provided with mating slits extending from their lower edges upwardly a distance at least equal to the height of said U-legs to thus confine and support said U-legs throughout their height.

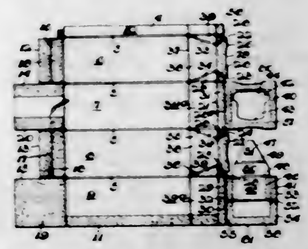
2,664,236
CARTON BLANK
David Levkoff, Great Neck, N. Y.
Application August 17, 1949, Serial No. 110,770
1 Claim. (Cl. 229—31)

A blank for producing a tray-like carton comprising, a substantially flat, rectangular one-piece strip, said strip having parallel score lines dividing it into a bottom and a pair of side walls, additional score lines extending longitudinally of the side walls to provide reinforcing flaps for inturning and securement over the inner faces of the side walls, said reinforcing flaps being gummed adjacent to their outer edges only and being of a width less than the depth of the side walls, an end panel at each end of the blank, diagonally foldable webs located between the end panel and the ends of the side walls, each of said webs including tongue portions extending laterally from the end panel to an extent less than the lateral projection of the reinforcing flaps before said flaps are infolded and secured down over the side walls, said tongue portions ending in alignment with the innermost terminations of the gummed areas on the reinforcing flaps whereby the gumming of said areas can take place during



the longitudinal movement of said blank without encroachment upon the tongue portions, the tongue portions having ends which extend beyond the side walls after the reinforcing flaps are infolded whereby an adhesive can then be applied to said ends of the tongue portions during the longitudinal movement of said blank which extend beyond the reinforced side walls, and a locking flap on the panel for extension over the tongue portions and adapted to lock behind the ends of the reinforcing flaps when the blank is erected.

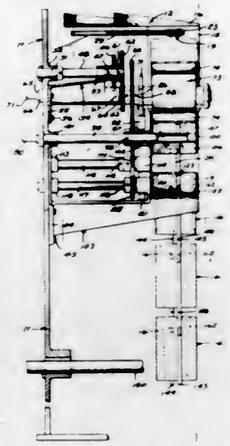
2,664,237
PAPER CONTAINER
Roy S. Sanford, Oakville, Conn., assignor, by mesne assignments, of one-half to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan, and one-half to a group comprising Ace C. Fessenden, Chicago, Ill., and Ace Carton Corporation, Chicago, Ill., a corporation of Illinois
Application November 4, 1947, Serial No. 783,904
9 Claims. (Cl. 229—37)



1. A closure for the open end of a tubular container of rectangular cross section including a closure flap adhesively secured to an end portion of the container and closing substantially one-half of the open end thereof, said flap presenting a flat unbroken outer surface, and a rectangular filler flap integral with and hingedly connected to the first named flap along one edge and having its remaining edges free to allow independent pivotal movement thereof about said hinged connection to expose the remaining portion of the open end of the container to allow filling of the container, the free edges of said filler flap being adapted to be adhesively secured to the end portion of the container to close said remaining por-

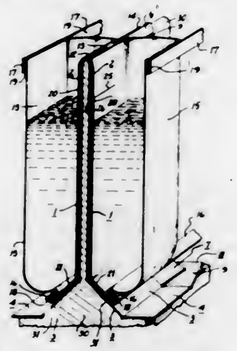
tion of said open end and presenting a flat and unbroken outer surface forming a continuation of and lying in the plane of the outer surface of the first named flap, the latter flap being provided with a member separable therefrom for providing a dispensing opening therein.

2,664,238
BAG ASSEMBLY
Clarence W. Vogt, Norwalk, Conn.
Application August 25, 1948, Serial No. 46,057
7 Claims. (Cl. 229—53)



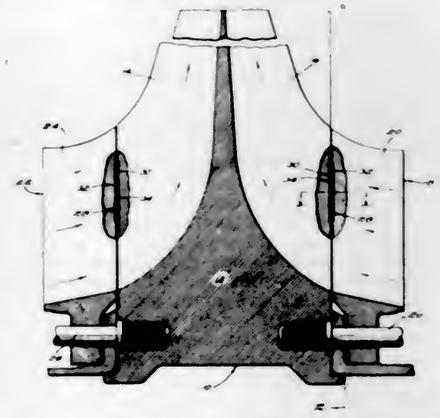
1. As an article of manufacture a plurality of bags connected in series by a pair of elongated tapes on opposite side walls extending lengthwise of said bags at right angles to the mouth thereof, said tapes being unconnected with each other and spot sealed to opposite sides of each bag by a reactivatable delayed action thermoplastic at a restricted zone adjacent to the mouth of said bag to retain all the bags in substantially parallel relationship with their mouths facing in the same direction, said bags being openable independently for filling by pulling one tape away from the other.

2,664,239
PACKAGING ARTICLE
Clarence W. Vogt, Norwalk, Conn.
Application April 15, 1949, Serial No. 87,638
2 Claims. (Cl. 229—55)



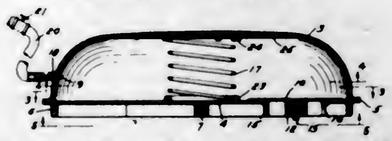
1. As an article of manufacture, a pair of frame members of semi-rigid sheet material, means connecting the frame members along a common edge of the members, a pair of flexible bags each having a closed and an open end, means to secure the closed ends of the bags to the frame members adjacent the outer ends thereof, and means to secure a side of each bag adjacent to its open end to each of the frame members adjacent the common edge thereof, said last named securing means extending over a portion less than one-half the perimeters of the open ends of the bags adjacent the open ends thereof, and means secured to an opposite side of each bag from the frame and adjacent to its open end to apply tension for opening each bag.

2,664,240
CENTRIFUGAL COMPRESSOR ROTOR VIBRATION DAMPER
Willard L. Gorton, East Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 13, 1951, Serial No. 215,211
2 Claims. (Cl. 230—134)



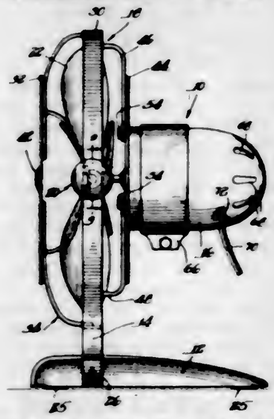
1. A compressor rotor assembly comprising essentially a centrifugal impeller having vanes thereon, a vaned inducer attached to the impeller, complementary grooves in the mating faces of the impeller and inducer vanes, said grooves being spaced from the edges of the vane faces and defining a chamber when the impeller and inducer are assembled, substantially round resilient strips within and substantially enclosed by each chamber, the depth of each groove being less than the radius of the strip so that the strips are loaded in compression after the rotor is assembled.

2,664,241
COMBINED AIR PUMP AND CUSHION
James J. Sunday, Detroit, Mich., assignor to Minno-Life Corporation, Detroit, Mich., a corporation of Michigan
Application June 22, 1951, Serial No. 233,017
5 Claims. (Cl. 230—160)



1. An air seat cushion and aerating device comprising a bowl member having top and side walls formed of a flexible but self-supporting, air impervious, rubber sheet material, said cushion also having a substantially flat bottom wall formed of a flexible self-supporting, air impervious, rubber sheet material, spring means within said cushion acting between said top and bottom walls to normally maintain said cushion in an expanded condition, said bottom wall having on its lower face a peripheral rib and a plurality of radial ribs for elevating said bottom wall from a supporting surface on which the cushion is positioned, said peripheral rib serving to support the outer peripheral portions of said bottom wall and said radial ribs serving to support the portion of said bottom wall spaced inwardly of the outer peripheral edge thereof, said cushion having an air outlet, said bottom wall being provided with an air inlet opening, a check valve controlling said air inlet opening, said peripheral rib having one or more openings therein for permitting air to flow to said air inlet opening when the cushion is positioned on a supporting surface.

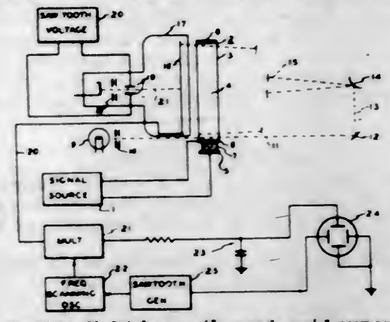
2,664,242
ADJUSTABLE FAN WITH GUARD
Ford Se Bastian, Elmhurst, Ill., assignor, by mesne assignments, to The Silex Company, Hartford, Conn., a corporation of Connecticut
Application May 27, 1950, Serial No. 164,637
8 Claims. (Cl. 230—259)



1. An electric fan comprising an elongated base of substantial mass and having a transverse slot in the bottom thereof, support means including an integral strip secured within said slot and forming a flush surface with said base, said strap being upwardly directed substantially from each side of said base, a propeller guard, means for pivotally securing said propeller guard to said supporting means, means for locking said securing means with said guard and support means in any relative predetermined position, electric motor means carried by said guard above said base when said base is supported on a substantially horizontal surface, and a propeller within said guard and rotatable by said motor means.

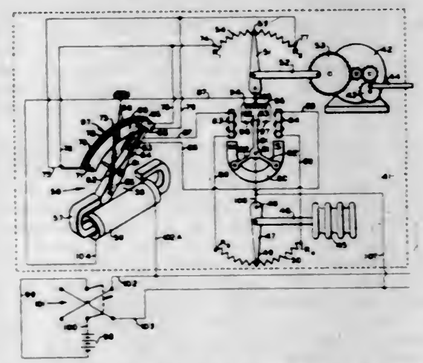
2,664,243
AUTOCORRELATION
Hyman Hurvitz, Washington, D. C.
Application February 6, 1950, Serial No. 142,647
19 Claims. (Cl. 235—61)

1. A system for deriving the auto-correlation function of a function $Ef(t)$, where E is a voltage, comprising, a supersonic light valve having an input means, means for applying $Ef(t)$ to said input means, means for generating a first narrow beam of light, means for passing said first beam of light through said super-sonic light valve adjacent said input means, means for transforming said first narrow beam of light to a further light beam having width of the order of the length of said super-sonic light valve, means for passing



said further light beam through said super-sonic light valve to provide an emergent wide light beam, a photo-electric surface, and means for impressing said emergent wide light beam on said photo-electric surface for integration of light values of said emergent wide light beam over a time interval.

2,664,244
AIR CONDITIONING CONTROL APPARATUS
Enoch Merle Miller, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 16, 1950, Serial No. 162,388
7 Claims. (Cl. 236—1)



5. An air conditioning system for a building having a plurality of spaces, which comprises, in combination, an air conditioning unit adapted to deliver heated or cooled air to each of said spaces, a motor controlled damper for each of said spaces for regulating the volume of air delivered thereto in accordance with the temperature in said space; a plurality of motor control means each associated with one of said motors to thereby control the opening and closing of each said damper each of which comprises a normally balanced circuit having a control variable impedance means responsive to changes in temperature in said space, relay means for controlling the direction of rotation of said motor, balancing variable impedance means operated by said motor, connections between said relay means, said control variable impedance means and said balancing variable impedance means adapted to permit said relay to control the direction of rotation of said motor responsive to the variation in impedance of said control variable impedance means

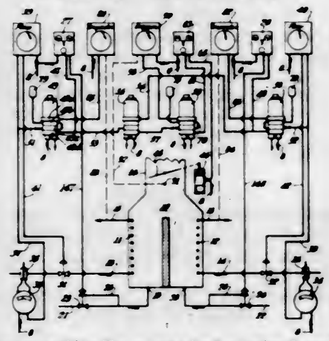
and being further adapted to cause said motor to vary the impedance of said balancing variable impedance means in such a manner that said circuit will become balanced thereby stopping the rotation of said motor, means for reversing the polarity of said balancing impedance means with respect to said relay means and said control impedance means; and a single means for reversing the polarity of said control variable impedance means, said relay means and said balancing variable impedance means in each of said plurality of motor means associated with each of said motors.

2,664,245

HEATER CONTROL

Ward J. F. O'Connor and Frank A. Rowen, Jr., Bayonne, N. J., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware

Application March 11, 1949, Serial No. 80,852
4 Claims. (Cl. 236—14)



1. A pneumatically operated control system for a fuel fired heater of a fluid charge, said heater having a charge inlet, a charge outlet, means to introduce a fuel to said heater for combustion therein, temperature responsive means in communication with the charge outlet, an orifice control in the charge inlet and a fuel feed control in the fuel introduction means, said fuel feed control being adapted to maintain a constant fuel feed rate to said heater, said system including a pneumatically operated relay having a valve maintained in a central position by the influence of a fluid pressure source which is balanced by a spring, said relay being interconnected to said temperature responsive means and to said fuel feed control to vary the fuel feed with respect to temperature changes on the charge outlet, said relay having two chambers containing opposed pressure responsive members acting in opposition on said valve, means for feeding impulses due to inlet charge flow changes directly to one of said chambers, and throttle valve means for applying said charge flow impulse to the other of said chambers whereby transient changes in the inlet charge flow rate will produce a relay output impulse to initially vary the fuel flow and then rapidly nullify said charge flow impulse.

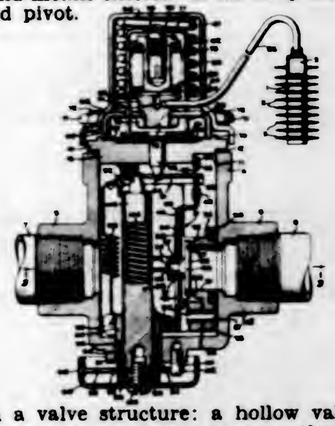
2,664,246

AUTOMATIC VALVE OPERATING IN RESPONSE TO TEMPERATURE CHANGES

William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California

Application January 3, 1949, Serial No. 68,896
18 Claims. (Cl. 236—99)

1. In a valve structure: a valve body having an inlet conduit and an outlet conduit, as well as openings at opposite ends of the body and having axes transverse to the axis of one of the conduits; a cage having a cover portion sealing one of the openings; said cage also having another portion inserted within the other opening; an arm hingedly supported by the cover portion; means forming an aperture and a valve seat around the aperture and carried by the cage, said aperture being in alignment with said one of the conduits; a valve closure member carried by the arm and cooperating with the seat; a lever for operating the arm; an adjustable pivot for the arm and supported by said other portion; and means exterior of the body for adjusting said pivot.



5. In a valve structure: a hollow valve body having an inlet conduit and an outlet conduit as well as openings at opposite ends of the body, the axes of said openings being transverse to one of the conduits; a removable cage fitted within the body and having a cover portion for one of the openings as well as a hub fitting into the opposite opening; sealing means between the cover portion and the body; means carried by the cage, forming an aperture in registry with one of the conduits and also forming a valve seat; sealing means between the edge of the said conduit and the aperture; an arm; a closure member carried by the arm; a movable connection between the arm and the cover member; a lever for moving the arm about a pivot; means forming a fulcrum for the arm and adjustably mounted in said hub; adjusting means exterior of the body for said fulcrum forming means; a flexible diaphragm on the exterior of the cover; an actuator guided in the cover for the lever; and temperature responsive means exterior of the body for flexing said diaphragm and thereby moving said actuator.

2,664,247

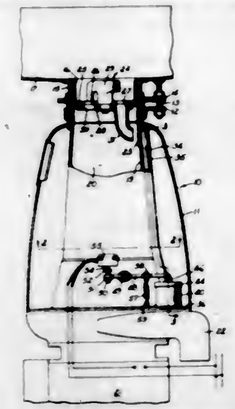
WASTE DISPOSAL DEVICE

Hans Jordan, Los Angeles, Calif., assignor, by mesne assignments, to Given Machinery Company, Los Angeles, Calif., a copartnership

Application December 20, 1947, Serial No. 792,953
21 Claims. (Cl. 241—36)

1. In a waste-disposal device, the combination of: hopper means having an opening therein through which waste material and flushing fluid can be inserted into said hopper means; comminuting means in said hopper means, adapted to comminute waste material therein; power means for operating said comminuting means; switch means for energizing said power means; walls defining a reservoir adjacent said hopper means, said reservoir having means for discharging said reservoir; means for diverting a portion of the flushing fluid inserted through said opening into said reservoir; pressure-responsive means

in association with said reservoir and adapted to be operated in response to static pressure created by a column of said fluid in said reservoir;



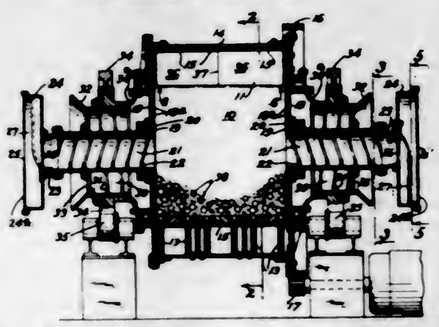
and means operatively connecting said pressure-responsive means and said switch means so that operation of said pressure-responsive means effects operation of said switch means.

2,664,248

BALL MILL WITH FEED AND DISCHARGE MEANS AT EACH OPPOSITE END

John B. Martin, San Francisco, Calif.

Application June 19, 1951, Serial No. 232,327
6 Claims. (Cl. 241—70)



1. In a ball mill, a rotatable drum for receiving balls and ore aggregate, said drum being mounted for rotation on its horizontal axis, axially longitudinally disposed bays which are substantially the axial width of the drum and extend in circumferentially spaced relation radially outwardly from the outer circumference of the drum, and inclined rearwardly relative to direction of rotation of the drum, each bay having one of its longitudinal sides opening into the drum, and a feed means and a discharge means mounted at each of the opposite ends of the drum, and a sifting screen at each opposite end of the drum, the said discharge means at each end of the drum communicating with the drum through the screen.

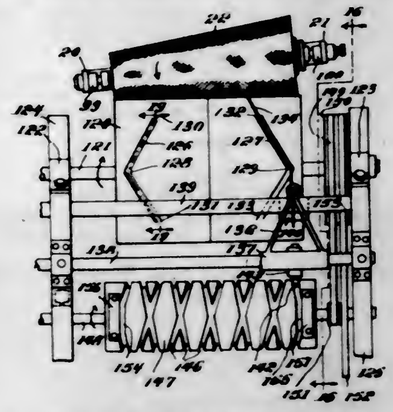
2,664,249

YARN CONE AND TUBE WINDER

Thomas Lee Wright, Granite Falls, N. C.

Application April 23, 1952, Serial No. 283,831
6 Claims. (Cl. 242—43)

4. In a cone and tube winder, the combination which comprises a frame, a yarn feeding cylinder journaled in the frame, a core, means for journaling the core in the frame, said core journaling means positioned whereby the surface of the core is in frictional driving engagement with the surface of the yarn feeding cylinder, the ratio of the diameter of the yarn feeding cylinder to the core being at least five to one, a traverse cylinder having a reversely threaded screw cam



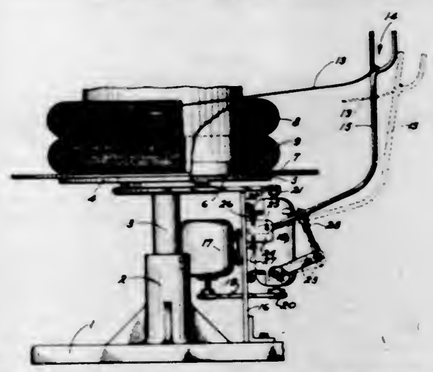
slot in the surface thereof positioned in a plane below the yarn feeding cylinder for feeding yarn over the cylinder to the core, said traverse cylinder being mounted with the axis thereof parallel to the axis of the yarn feeding cylinder, and a yarn guide actuated by said traverse cylinder to travel with a reciprocating action longitudinally of said yarn feeding cylinder.

2,664,250

STOCK REEL SPEED CONTROL MECHANISM

John H. Friedman, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio

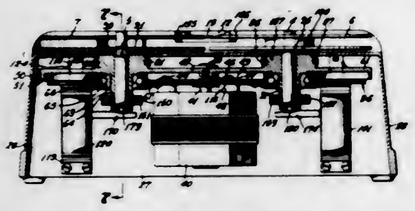
Application May 24, 1950, Serial No. 163,851
4 Claims. (Cl. 242—54)



1. In a coiled wire stock feeding apparatus a base having a vertically disposed pedestal, a wire stock support mounted on said pedestal for rotation about a vertical axis, a coil of wire stock on said support arranged to be unwound by the rotation thereof, a power unit mounted on said base, a speed change device mounted on said base, said speed change device having a constant rotational speed input shaft connected to said power unit, an output shaft operatively connected to said support and a speed control lever movable from an off position which stops the rotation of the

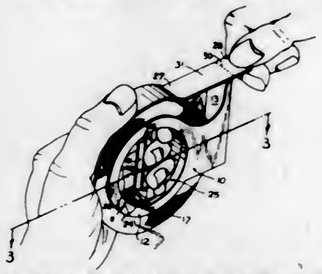
output shaft to variable on positions determining the rotational speed of the output shaft, a guide lever pivoted on said base at one end thereof on a horizontal axis, said guide lever extending laterally and upwardly from said horizontal axis whereby said guide lever turns downwardly about said axis in response to gravity, means connecting said guide lever and said control lever to move said control lever to stop position as said guide lever turns to its lowered position and a wire guide at the other end of said lever engaging the wire after being unwound from said coil, the tension in said wire effecting an upwardly turning movement of said guide lever and thereby increasing the speed of said output shaft.

2,664,251
DRIVE FOR MAGNETIC TAPE
Emmanuel Beriant, Culver City, Calif., assignor to Beriant Associates, Los Angeles, Calif., a partnership
Application November 19, 1948, Serial No. 60,896
5 Claims. (Cl. 242—55)



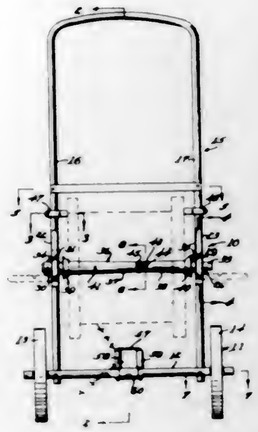
1. A drive comprising a pair of counterrotating wheels arranged edge to edge in driving relation, a motor having a pulley in driving relation with the edge of one of said wheels, a reel spindle coaxial with and journaled in each of said wheels, a frictional drag between each of said wheels and its respective spindle, a drive spindle in a tape path between said wheels, means for driving said drive spindle from one of said wheels, an idler pulley for said drive spindle, and means for operating said idler pulley.

2,664,252
TAPE DISPENSER
Kermit Glew, San Jose, Calif.
Application April 27, 1949, Serial No. 89,821
3 Claims. (Cl. 242—55.5)



3. In a tape dispenser of the type having a bridge portion provided with a tearing tip and having parallel discs extending therefrom each provided with an annular inwardly extending flange adapted to support a roll of tape for rotation; the combination therewith of a diametric bar formed with each of said side discs in parallel relation to said bridge piece, said bars being disposed in spaced parallel relation with respect to each other so as to be embraced by those fingers of a user apposable to the thumb for compression toward each other upon gripping of said bars within those fingers to thereby urge the side discs into engagement with the side walls of a roll of tape between said discs.

2,664,253
REEL HOLDER FOR BARBED WIRE
Louis A. Therrien, Pittsford, Vt.
Application August 22, 1950, Serial No. 180,870
3 Claims. (Cl. 242—90)

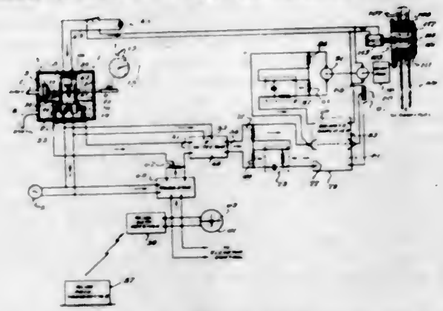


1. In a wire reel holder, a frame having laterally spaced straight legs, a rotary shaft extending between the frame legs, means removably journaling said shaft on the frame legs, a mandrel circumposed on said shaft between the frame legs, said mandrel comprising a fixed section and a rotatable and slidable removable section arranged in end to end relation, spring means compressed between the mandrel sections and urging the slidable section away from the fixed section, said removable section being removable from said shaft upon removing said shaft from the frame legs to enable removal and replacement of a wire reel on the mandrel sections, means on said shaft engageable with the end of said removable mandrel section remote from said fixed mandrel section positioning said removable section toward the fixed section so as to compress said spring means, and pin and slot means acting between said shaft and the opposite end of the removable mandrel section and releasably connecting the removable mandrel section for rotation with said shaft.

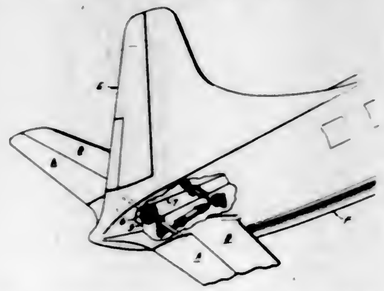
2,664,254
AIR-SPEED CONTROL SYSTEM
Harold S. Hendrickson, Hempstead, N. Y., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application January 21, 1950, Serial No. 139,943
8 Claims. (Cl. 244—77)

8. An aircraft automatic approach system including a radio glide path receiver providing a signal proportional to the amount and sign of vertical deviation of the aircraft from a selected glide path, an elevator controller, means operatively connecting said signal to said controller for continuously controlling the pitch attitude of the craft, an airspeed responsive device providing a further signal proportional to the amount and sign of deviation in airspeed from a selected value, an engine controlling servomotor, means

for producing a temporary signal proportional to initial movement of said servomotor, and operative means for combining said three signals to control said servomotor.



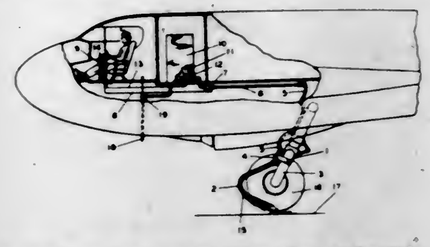
2,664,255
HYDRAULIC LOCKING MECHANISM
Ronald E. Crandall, Los Angeles, Calif., Peter S. Kleven, Fort Worth, Tex., and Lee E. Baldwin, Los Angeles, Calif., assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application February 14, 1949, Serial No. 76,352
10 Claims. (Cl. 244—85)



1. In a means for controllably locking a rotatable element with respect to a stationary element, the combination of a fluid-filled cylinder means for pivotally supporting said cylinder on one of said elements, a piston rod extending through said cylinder, a piston in said cylinder secured to said piston rod, connecting means between one end of said piston rod and the other of said elements, a passage from one side of said piston to the other, valve means associated with said passage to control the flow of fluid from one side of said piston to the other, and an electric actuator supported on and movable with the free end of said piston rod operatively connected with said valve means to control its operation.

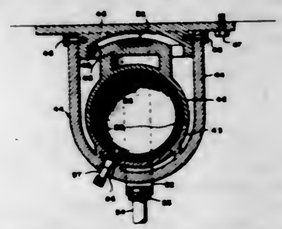
2,664,256
LUBRICATING SYSTEM FOR THE PERIPHERY OF TIRES ON LANDING GEARS FOR AIRPLANES
John H. Winterringer, Yakima, Wash.
Application September 12, 1950, Serial No. 184,468
3 Claims. (Cl. 244—103)

1. In a lubricating system for the peripheries of tires on landing gears for airplanes, the combination with the airplane and landing gears adapted to be raised or lowered, a nozzle clamped to each landing gear at one side thereof and extending downwardly and rearwardly in front of the periphery of the tire tread to spray a lubricant against the periphery of the tire and a runway at the point of contact of the tire with runway and onto the latter, a lubricant supply the runway and onto the latter, a lubricant supply tank in the airplane, a discharge line from



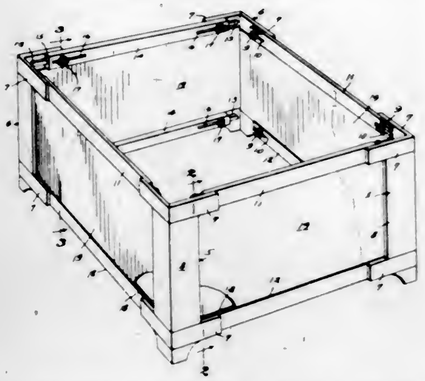
the tank to the nozzle including a flexible section attached to the nozzle where the latter is connected to the landing gear allowing raising and lowering of the landing gear while maintaining connection with the nozzle, a control valve in the line, and means in the airplane for controlling said valve.

2,664,257
PNEUMATIC SUSPENSION SYSTEM
James A. McNally, United States Navy, Arlington, Va.
Original application April 29, 1949, Serial No. 90,522. Divided and this application June 20, 1952, Serial No. 295,380
3 Claims. (Cl. 248—18)
(Granted under Title 35, U. S. Code (1952), sec. 266)



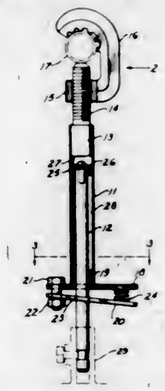
1. A resilient mounting comprising a first hemispherical shell and a second hemispherical shell having abutting mating edges formed in a plurality of crenations, said first and second shells being positioned in open ended vertical juxtaposition with said crenations intermeshed to form a substantially spherical cavity therebetween, said first shell being positioned below said second shell, a spherical impervious bladder within said spherical cavity, the stationary fixture for attachment to an overhead supporting structure and having a concave limit stop portion therein, said first shell having an integral supporting U-shaped member attached to said stationary fixture, said second shell having an integral buttress protruding therefrom and partially projecting into the concave limit-stop portion of said stationary fixture, bladder reinforcing means adjacent the abutting edges of said first and second shells, and valve means to permit inflation of said bladder to separate said first and second shells, said intermeshed crenations and the coaction of the buttress of said second shell with the concave limit-stop portion of said stationary fixture limiting the lateral movement of said second shell relative to said first shell to a predetermined degree.

2,664,258
ADJUSTABLE TELEVISION OR RADIO CABINET BASE
Harold S. Lanier, Welcome, N. C.
Application January 24, 1952, Serial No. 268,000
1 Claim. (Cl. 248—172)



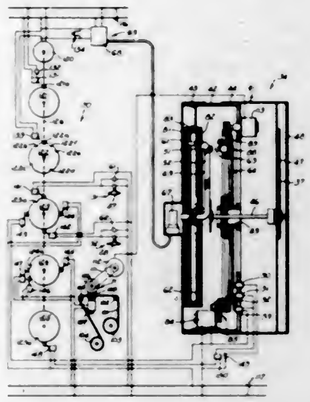
A cabinet base including a frame comprising pairs of front and rear corner members, each corner member including pairs of upper and lower bars the bars of each pair extending at right angles with respect to each other horizontally, ribs extending inwardly from arms of the rear corner members, connecting bars having grooves fitted over said ribs, said connecting bars having elongated openings disposed opposite to said ribs, securing screws in said elongated openings and embedded in the ribs holding the connecting bars in positions of adjustment with respect to the corner members, connecting bars adjustably connected with the remaining corner members, and panels closing the sides of the frame.

2,664,259
HANGER
Jess C. Rose, North Hollywood, Calif., assignor to J. G. McAlister, Inc., Hollywood, Calif., a corporation of California
Application July 21, 1950, Serial No. 175,061
1 Claim. (Cl. 248—337)



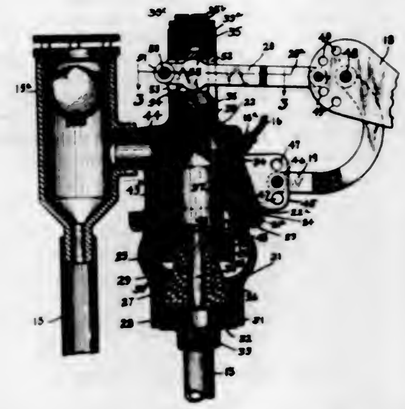
A hanger comprising in combination: a tube having means at its upper end for securing it to an overhead support; a rod movable longitudinally within the tube, and projecting downwardly therefrom for supporting a utility article; a manually releasable grip automatically operable by the downward pull of the rod and supported article for holding the rod against downward movement relative to the tube, at any relative position of rod and tube while permitting an upward thrust movement of the rod; means at the upper end portion of said tube forming a substantially air tight closure thereacross to provide a pneumatic cylinder closed at the top, and closure means on the upper end portion of said rod including a packing element pneumatically sealingly engaging the inside surface of said tube for closing said pneumatic cylinder at the level of the upper end portion of said rod, in such manner as to form a pneumatic chamber, closed at the top of said tube, and closed at the upper end of said rod, in which a partial vacuum will be developed upon downward travel of said rod.

2,664,260
AUTOMATIC DISPENSING, WEIGHING, AND RECORDING APPARATUS
Walter E. Saxe, Pasadena, Calif., assignor to The Conveyor Company, Inc., Los Angeles, Calif., a corporation of California
Application April 21, 1951, Serial No. 222,176
24 Claims. (Cl. 249—14)



1. In a dispensing and recording apparatus, the combination of: a dispensing device for dispensing a material; means operatively associated with said dispensing device for measuring the quantity of the material dispensed by said dispensing device, including a movable measuring element and means operatively connected to said movable measuring element for moving said movable measuring element a distance which is a function of the quantity of the material dispensed by said dispensing device; energizing means for energizing said dispensing device; de-energizing means operatively connected to said measuring element and responsive to movement thereof through a predetermined distance, corresponding to a predetermined quantity of the material to be dispensed, for de-energizing said dispensing device after said predetermined quantity of the material has been dispensed; means for recording the quantity of the material dispensed by said dispensing device, including a movable recording element; and means photoelectrically connected to said movable measuring element and operatively connected to said movable recording element for moving said movable recording element through a distance which is also a function of the quantity of the material dispensed by said dispensing device.

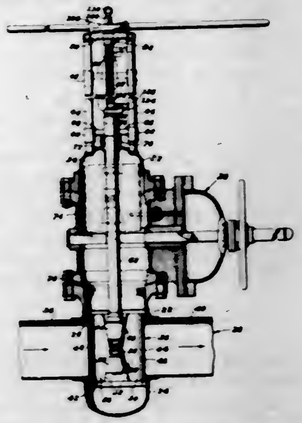
2,664,261
SILENT VALVE
Albert R. Stephany, Newport, Ky.
Application January 3, 1947, Serial No. 719,989
5 Claims. (Cl. 251—27)



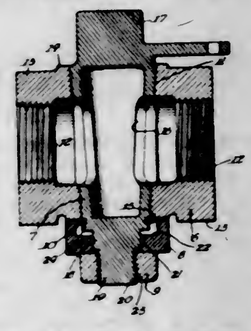
1. A fluid valve comprising upper and lower casing parts, said parts being provided with fastening flanges, said lower part constituting a chamber open at the top and having an opening in the bottom, the orifice of said opening being threaded to receive a fitting and said opening from said threaded portion to the interior being conical, a conical nozzle element of glass seated in said conical opening and extending into said chamber, and a fitting engaging said threaded portion to hold said nozzle element in place; said upper part comprising a chamber having an outlet, a valve guide extending downwardly in said chamber, and a valve element in said guide, said valve element comprising a cylinder open at the bottom and carrying a nozzle engaging washer, said valve element being at all times substantially full of fluid when said valve is operatively connected to a fluid supply source, said upper part having a bearing extension, and said valve having a stem arranged to have a sliding bearing in said bearing extension.

2,664,262
STOPPER FOR LARGE PIPE LINES
Frank H. Mueller and John J. Smith, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application August 24, 1951, Serial No. 243,474
8 Claims. (Cl. 251—70)

1. An inserting and positioning assembly for an expansible pipe line stopper adapted to be inserted into a transverse bore in a line and having a rotatable expanding rod concentrically enclosed by a tube secured against rotation to the stopper body, said assembly comprising: a stopper bell having the tube, and enclosed expanding rod, extending in sealed relation and for axial movement therethrough; fixed guide means on said bell; rigid means fixed against rotation to the outer end of the tube and slidably engaging said guide means for maintaining the stopper against rotation; jackscrew means mounted on said bell and engaging the expanding rod; and shiftable clutch means alternately operable to maintain the expanding rod fixed against rotation for axial movement thereof by rotation of said jackscrew means and to lock the expanding rod to said jackscrew means for rotation therewith without axial movement.



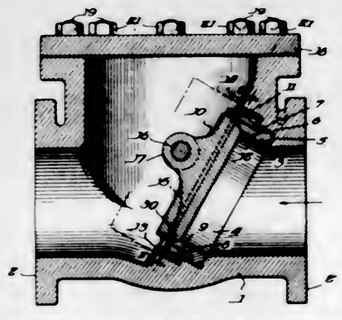
2,664,263
GAS COCK
Albert Stadler, Rockford, Ill., assignor to Eclipse Fuel Engineering Co., Rockford, Ill., a corporation of Illinois
Application April 20, 1949, Serial No. 88,625
1 Claim. (Cl. 251—91)



As a new article of manufacture, a cock comprising an elongated hollow body provided with openings in the ends thereof, having on the central portion thereof a circular externally disposed boss with a flat outer end surface, and embodying in its central portion a transverse tapered bore with the small end thereof extending through the central portion of the boss and its central portion in communication with said openings, a plug tapered conformably to, and fitting rotatably within, the bore, embodying a cross-port for establishing communication between said openings in the ends of the body when the plug is turned into a particular position, provided at its large end with exteriorly disposed turning means, having its small end projecting a small distance beyond the end surface of the boss and provided with an angular groove directly opposite said end surface and of U-shaped cross section, and embodying on its small end a concentric reduced cylindrical extension and a concentric screw threaded stem outwards of, and of less diameter than, the extension, a washer of substantially the same external diameter as the boss and of slightly greater depth than the combined depth of the projecting small end of the plug and the

extension mounted slidably on the extension and having the inner end thereof abutting flatly against the end surface of the boss and provided with an internal annular recess which is of greater diameter and depth than, and serves loosely to house, said projecting small end of the plug and surrounds the groove in said small end of the plug, a nut mounted on the stem and adapted when tightened to clamp the washer in place, and a split ring disposed within and housed entirely by, the recess in the washer, having its inner portion seated within said annular groove and its outer portion abutting against the end surface of said adjacent boss, and adapted positively to hold the plug against axial displacement in the direction of its large end in the event of loosening of the nut or fracture of the stem.

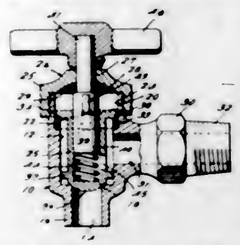
2,664,264
CHECK VALVE MOUNTING
Richard Fennema, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation
Application October 11, 1949, Serial No. 120,675
3 Claims. (Cl. 251—123)



2. In a check valve construction comprising in combination, a casing, a pivotally mounted closure member therefor, a seat ring having a shouldered portion received within the said casing, a gland member limitedly movable axially within a recessed portion of the casing, compressible sealing means between the said gland member and the shouldered portion of the said seat ring, the gland member having superposed means for pivotally supporting said closure member, and axially movable retainer means for holding the said gland member in pressure sealing relation to the said casing by initial compression applied against the said sealing means the said seat ring at its shouldered portion being suitably formed to support said sealing means against a wall of said casing.

2,664,265
PRESSURE SEALED VALVE
Walter M. Howser, Indianapolis, Ind.; Julia M. Howser, administratrix of said Walter M. Howser, deceased
Application June 21, 1951, Serial No. 232,689
2 Claims. (Cl. 251—132)

1. In a valve of the class described, a body having a cylindrical chamber open at its top end and provided with a reduced outlet in its lower end, a service coupling inlet opening through the side of said body intermediate its ends, a barrel within said chamber also having a cylindrical chamber open at its top end and closed at its lower end, said lower end of said barrel being rounded to seat in said outlet, lugs projecting in spaced relation about said barrel to center it within the body chamber, said barrel having a pair of oppositely disposed slots opening through its top end, an annular shoulder formed interiorly of the upper end of said body, an annular cam element seated on said shoulder and having its top edge formed to provide a pair of cam tracks merging one into the other, a bonnet threaded onto the upper end of said body and having an opening centered in its end, a stem depending through said bonnet opening, a piston on the inner end of said stem and slidably engaged in said barrel chamber, a handle on the outer end of said stem, a coil spring within said barrel chamber beneath said piston, a pair of oppositely disposed follower lugs projecting laterally from the upper end of said barrel adapted to ride said cam



tracks and lift the barrel to free its lower end from said outlet, and a pair of oppositely disposed keys projecting laterally from the upper end of said piston to be engaged in said slots upon a downward movement of said stem to allow for a subsequent turning movement of said barrel and the follower lugs carried thereby relatively to said cam element, said spring being placed under compression during the downward movement of said piston and acting to forcibly return the barrel to its normal outlet closing position when said follower lugs drop from the high points of said cam tracks, said barrel having a laterally opening port communicating the interior of the body chamber for the entry of line pressure from the latter and the said service inlet.

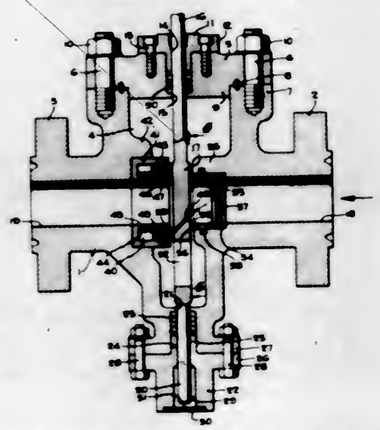
2,664,266
VALVE MECHANISM
Clarence Johnson, Orfordville, Wis.
Application January 21, 1948, Serial No. 3,617
9 Claims. (Cl. 251—133)



1. A valve mechanism comprising, in combination, a valve block having stepped bores therein opening into each other, a spherical shaped valve member made of a resilient material and having a close sliding engagement with the smaller one of said bores, means for supplying fluid under pressure to the larger one of said bores and against said valve member to urge said valve member toward said smaller bore in all operative conditions of said valve mechanism, an abutment member received within the smaller one of said bores and having a stem projecting through an opening in said block to the exterior thereof, passage means in said abutment member and stem for connecting the smaller one of said bores

in communication with the atmosphere, and manually actuatable means engageable with the stem of said abutment member for moving the latter to force said valve member against the action of the fluid supply pressure into the larger of said bores and connect the fluid supply means in communication with said passage means.

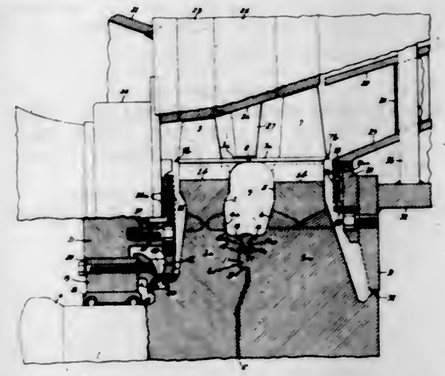
2,664,267
HYDRAULICALLY BALANCED GATE VALVE STRUCTURE
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California
Application June 29, 1950, Serial No. 171,069
5 Claims. (Cl. 251—167)



1. In a valve structure: a valve body having an inlet and an outlet passageway; a gate guided for slidable movement by said body between said passageways; a guide secured to said body and having a through aperture aligned with said outlet passageway; said guide having a channel opening toward said gate; a gate-contacting member guided for movement in said channel and forming, together with said channel, a chamber; said gate having a through port registrable with said inlet passageway; and passage forming means communicating with said chamber and said gate port when said gate is in closing position.

2,664,268
OVERHUNG TURBO-MACHINE ROTOR ARRANGEMENT
Alan Howard, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 27, 1948, Serial No. 62,373
2 Claims. (Cl. 253—39)

1. In a turbo-machine having a high-speed rotor with a disk portion connected to a shaft supported in main bearing means disposed at only one side of the disk, the combination of a casing supporting the bearing means, an axially extending hub member on the side of the disk remote from the bearing means and defining a smooth circumferential surface concentric with the axis of rotation and of a diameter substantially equal to that of the main bearing means, and a stationary guard ring member supported in the casing and having a circumferential surface forming a small annular clearance space with said hub portion of the disk, said cooperating spaced circumferential surfaces being of appreciable axial length to form a bearing surface whereby any substantial deviation of the disk from its true axis of rotation will result in rubbing on said bearing surface to produce a



characteristic warning sound and a braking effect on the rotor while also acting as an emergency journal bearing to maintain the rotor concentric and thereby reduce the stresses resulting from dynamic unbalance of the rotor.

2,664,269
PNEUMATICALLY-CONTROLLED SOIL SAMPLER
Elton G. Knight and John W. Miller, Los Angeles, Calif.
Application May 3, 1949, Serial No. 91,206
3 Claims. (Cl. 255—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



2. A soil sampler comprising a tubular casing having a soil-cutting end, a closure head for the casing, a piston slidably mounted in the casing and spaced from the closure head, air-passage means communicating with the said space and behind the piston enabling the piston to be placed under pressure of compressed air from a source thereof for forcing the piston from retracted position in the casing to extended position closing the soil-cutting end of the casing, the air-passage means also enabling application of vacuum to the said space for enabling retraction of the piston into the casing responsively to sample-taking movement of the casing, a high-strength cable attached to the piston and to the closure head,

and having an adjusted length sufficient to enable the piston to be expelled by air pressure in the said space to closing position at the soil-cutting end of the casing while preventing complete expulsion of the piston from the casing, and sealing means on the piston and head for preventing leakage of air between such members and the casing.

2,664,270
APPARATUS FOR CONTROLLING THE COURSE OF A LATERAL BORE DEVIATING FROM A VERTICAL WELL BORE
John A. Zublin, Los Angeles, Calif.
Application April 19, 1951, Serial No. 221,805
1 Claim. (Cl. 255—1.6)



Apparatus for drilling a curved bore deviating from an existing vertical well bore comprising in combination, an outer normally curved nonrotatable flexible resilient drill guide, an inner flexible drive member mounted for rotation within said drill guide, a drill bit carried at the lower end of and rotatable with said flexible drive member, said bit having a cutting face of greater diameter than the diameter of said drill guide, and projections carried on said drill guide at the lower end thereof having greater radial thickness than represented by the difference in the diameter of said drill guide and said cutting face and positioned about the circumference of said guide so as to transmit gravitational and other forces to the wall of the bore being drilled and thereby impel the bit in a direction opposed to the resultant component of such forces.

2,664,271
SEALING DEVICE FOR TUBULAR SHAFTING
Armais Arutunoff, Bartlesville, Okla.
Application December 6, 1951, Serial No. 260,177
3 Claims. (Cl. 255—28)

3. A sealing device for tubular sections arranged in telescoping relation, comprising an elongated sleeve slidably engaging the inside wall of the inner telescoping section and extending coaxially from the latter into the outer section, in spaced relation to the inside wall thereof, the extended extremity of said sleeve being provided with an enlarged base adapted to fit closely within the adjacent end of said outer telescoping section, said base having an annular radial flange and means cooperating with said flange for fixing the base to the adjacent end of said outer section, means sealing said sleeve with respect to the inside wall of said outer section, and means sealing the opposite end of said sleeve with respect to the inside wall of said inner section.

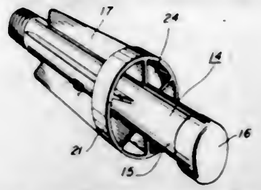


2,664,272
COUPLING
Elvin G. Boice, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application July 5, 1946, Serial No. 681,487
3 Claims. (Cl. 255—28)



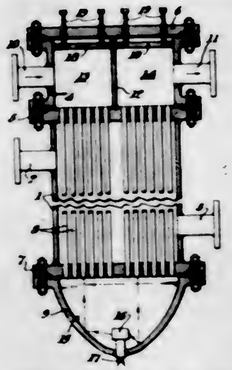
1. A drill stem coupling having a tubular body, said body having connecting means on each end, a relatively inherently flexible reduced section forming part of the body between said ends, and a plurality of axially spaced annular flanges on said reduced section, the outside diameter of said flanges being slightly greater than the outside diameter of said ends so that said flanges will engage the wall of a well bore when the reduced section is flexed to protect the ends of the body from excessive wear, the upper and lower surfaces of said flanges having annular grooves adjacent said reduced section, the walls of said grooves being rounded, and the peripheries of said flanges being hard surfaced.

2,664,273
EARTH CUTTING TOOL
Charles Clark Merrick, Greenville, Tex.
Application April 28, 1950, Serial No. 158,864
8 Claims. (Cl. 255—73)



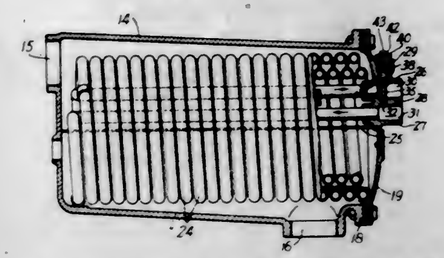
1. An earth cutting tool including, an elongate central body, a plurality of radial cutters carried by the body, each radial cutter comprising an elongate plate having its inner longitudinal edge adjoining the central body, the plate extending radially outwardly from the body and having its outer longitudinal edge formed with a radially-outwardly facing cutting edge, and an annular cutter ring encircling the radial cutters at one end thereof, the outer longitudinal edges of the radial cutters adjoining the ring, and the ring being provided with an annular cutting edge facing longitudinally of the central body toward the cutting edges of the radial cutters.

2,664,274
METHOD AND APPARATUS EMPLOYING SONIC WAVES IN HEAT EXCHANGE
George A. Worn, Greenwich, Conn., and Frank L. Rubin, Brooklyn, N. Y., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware
Application December 22, 1951, Serial No. 262,948
9 Claims. (Cl. 257—73)



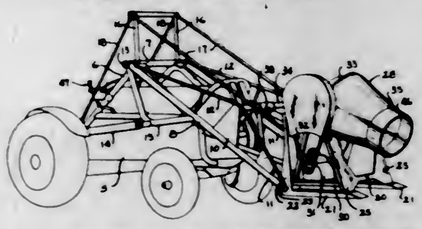
6. In the operation of a heat exchanger having a group of substantially parallel tubes and means including a channel chamber at one end of the group and a channel chamber at the opposite end of the group to pass a fluid through the tubes, and in which there is provision for contact of other fluid with the exterior of said tubes in indirect heat exchange relation with the first-mentioned fluid, the improvement comprising initiating sonic waves within the tube-side fluid in one of said chambers at a point surrounded by said fluid and clear of the chamber walls and spaced from the tubes, directing the waves in said chamber predominantly longitudinally of the tubes and into the latter for advance therethrough to increase the heat exchange efficiency of the contact of the tube-side fluid with the inner walls of the tubes, within the other of said chambers, reflecting said waves reversely into the tubes, and adjusting said reflection to produce resonance of the reflected waves with the waves advanced through the tubes.

2,664,275
TANKLESS HEATER AND BY-PASSING VALVE CONSTRUCTION THEREFOR
Harry W. Carter, Flushing, N. Y.
Application April 18, 1950, Serial No. 156,560
2 Claims. (Cl. 257—248)



1. In combination with a heating coil having inlet and outlet terminals contiguously positioned for a tankless heat casing having a flange, a supporting cover member for connection to the flange of said casing, said cover having a contiguously positioned set of bosses thereon on one face thereof arranged to be on the inside of said casing and integral therewith, and in which said terminals of said coil are arranged to be mounted, a second set of bosses in parallelism with each other extending on the outer opposite face of said cover having a common connecting web, said second set of bosses being in communication respectively with said first set of bosses, a by-pass port transversely extended between said second set of bosses through said web and a manually controlled valve for adjusting the opening of said port diametrically extended through one of said second set of bosses.

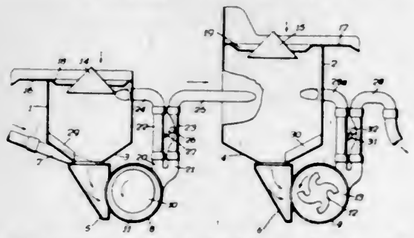
2,664,276
CONCRETE MIXER WITH LIFTING AND TILTING MECHANISM
Adolph A. Wagner, Milwaukee, and Arnold J. Werner, Elm Grove, Wis., assignors to Wagner Iron Works, Milwaukee, Wis., a corporation of Wisconsin
Application February 16, 1951, Serial No. 211,418
9 Claims. (Cl. 259—160)



1. In a device of the character described, and including a tractor provided with a dipper stick pivotally mounted on the tractor, said dipper stick being provided with a hydraulic motor at its front end and means under control of the tractor operator for the control of said motor, a mixer attachment comprising a mounting frame having connections for attaching the frame to the front end of the dipper stick, a mixer, said frame being provided with a horizontal pivot upon

which the mixer is mounted to pivot between mixing and discharge positions, said mixer further comprising a connection to which the hydraulic motor may be attached whereby pivotal movement of the mixer on its pivot between mixing and discharge positions, at the control of said operator, is powered by said motor, said mixer being movable on said dipper stick to a plurality of elevated positions within the range of dipper stick pivotal movement.

2,664,277
CEMENT MIXER
Leonard Truman Davies, Higham, England, assignor to Colcrete Limited, Strood, England
Application May 28, 1952, Serial No. 290,434
4 Claims. (Cl. 259—161)



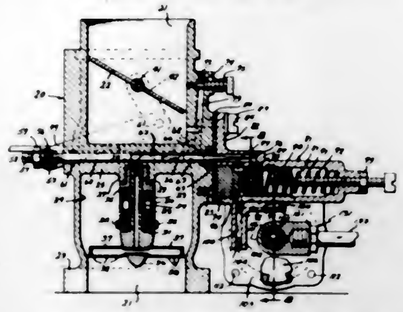
1. A cement mixer embodying a hopper having a bottom which is inclined towards an outlet therefrom and having near its upper end a more or less tangentially directed inlet, a trap beneath the outlet of the hopper, a mixing and pumping unit consisting of a casing with a rotor therein, said unit being mounted on and communicating on its inlet side with the trap and the casing of said unit having two alternative outlets, flexible outlet pipes connected to said outlets of which one leads to the inlet to the hopper and an angularly displaceable presser device located between said flexible outlet pipes adapted to move from one terminal position to another in order to flex and close one or other of said outlet pipes.

2,664,278
FLUID MIXING DEVICE
Elie P. Aghnides, New York, N. Y.
Application April 21, 1949, Serial No. 88,797
1 Claim. (Cl. 261—76)



A device for producing a stream of liquid containing bubbles therein comprising in combination: a resilient one-piece molded body member for attachment to the discharge end of a conduit adapted to deliver liquid under pressure, said body member defining a chamber having a discharge outlet at the end of said chamber, the outer surface of said body member having a plurality of longitudinal grooves extending along a portion thereof, a perforate diaphragm positioned in said chamber, and a perforate screen positioned in said chamber and held in spaced relationship downstream from said diaphragm, said body member having air inlet passageways extending from the ends of said surface grooves into said chamber between said diaphragm and said screen for conducting air into said chamber.

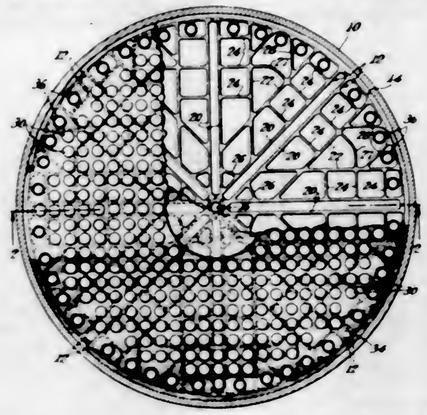
2,664,279
PRESSURE CARBURETOR AND FUEL-AIR RATIO REGULATOR
Joseph Albon Bascle, New Orleans, La.
Application August 31, 1950, Serial No. 182,502
4 Claims. (Cl. 261—88)



1. A carburetor comprising a body having a substantially vertically straight down-draft air passage open to atmosphere above and to the engine below, a bridge across the air passage having a fuel passage therein in communication with a source of fuel supply, a throttle above the bridge, and a spinner assembly below the bridge comprising a spinner support depending from said bridge, a hollow spinner shaft in open communication at its upper end with the fuel passage in said bridge and journalled to rotate in said support and having a stream-lined downwardly projecting head on its lower end extending below the support, and hollow flat blades extending radially from said head in interior communication with the internal space of the hollow shaft and receiving fuel therefrom, said radial flat blades inclined on their radial axes to intercept the current of air descending in said air passage, said hollow blades having dispersion apertures in the upper faces of the blades against which the down-draft air impinges, said apertures being close to the trailing edges of the blades.

2,664,280
SUPPORTING BEAMS FOR BUBBLE TRAYS AND THE LIKE
Harold B. Kohn, Bronx, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application February 26, 1948, Serial No. 11,134
8 Claims. (Cl. 261—114)

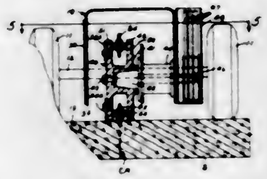
6. In a hollow column whose inner wall has a substantially circular horizontal section and in which material is passed between different levels, the combination of a deck within said column, sector-like supporting beams for said deck underlying same and arranged in succession around the center of said cross section, each of said beams extending radially from a point adjacent the center of the column to a point adjacent said shell wall and comprising an open skeleton structure of relatively narrow contour-defining webs forming the converging sides and the outer end of the beam and relatively narrow reinforcing webs within the enclosure defined by said contour-defining webs and connected thereto, the converging sides of each beam converging on lines which intersect at a point radially spaced from the inner end of the beam and being substantially parallel to and substantially spaced from the adjacent sides of the beams at opposite sides thereof, the inner end portion of the beams being laterally enlarged and the outer end portions of the beams having lateral spacing projections, to hold the sides of the beams in said spaced relation, and the deck having numerous perforations distributed over the area thereof and located over the spaces defined by said beam



webs and over the spaces between the beams for said passage of material through the deck, the beams and the spaces between the beams, means supporting the beams at their outer ends, and means supporting the beams at their inner ends

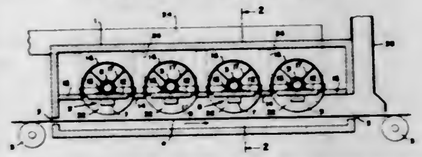
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2,664,281
MACHINE FOR CUTTING, CLEANING, GROOVING, AND TREATING SURFACES
Andreas Luksch and Lloyd Hale, Minneapolis, Minn., assignors to G. H. Tennant Company, Minneapolis, Minn., a corporation of Minnesota
Application August 27, 1949, Serial No. 112,798
5 Claims. (Cl. 262—20)



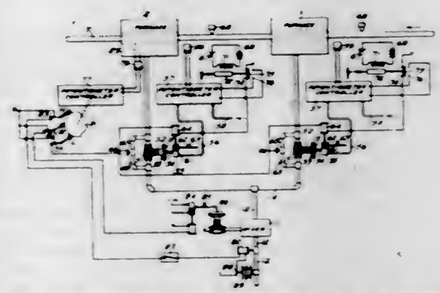
1. A mobile frame having means for guiding it over a surface which is to be worked upon, a shaft journalled on the frame in a position such that it will be generally parallel to the surface over which the frame moves and generally transverse to the direction of movement of the frame, rotary power means on the frame and connected to the shaft for rotating it, a cutter element mounting pin mounted on the shaft so as to rotate orbitally when the shaft is rotated, said pin being generally parallel to the axis of the shaft and positioned radially from the axis of the shaft, an apertured cutter element mounted on the pin for axial movement relative thereto, the aperture of the cutter element being larger than the pin on which it is mounted, spaced stop means mounted on the machine for defining limits of movement of the cutter element axially on the pin, the size of the cutter element aperture with reference to the size of the pin and spacing of the spaced stop means relative to the cutter element being such that the cutting face of the cutter element can move a distance, the component of which distance in the direction of the shaft axis being a distance greater than the cutting face thickness of the cutter element.

2,664,282
DRIER
Carl P. Mann, Riverton, N. J., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application April 1, 1950, Serial No. 153,347
7 Claims. (Cl. 263—3)



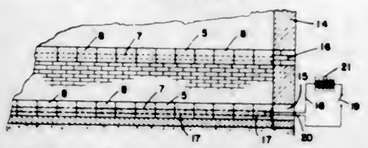
1. In apparatus for drying a web, the combination of a furnace having a chamber through which a web of material to be dried is adapted to be moved in a predetermined path, a plurality of heating elements, means to support said elements in a fixed position in said chamber a predetermined distance from said path and directed towards the same whereby a web passing along said path will be dried, a substantially semi-cylindrical baffle, means to mount said baffle for rotating movement around said supporting means from a position between said elements and said path to a position on the opposite side of said supporting means from said path, and means to move said baffles between said two positions.

2,664,283
FURNACE CONTROL SYSTEM
Frederic O. Hess, Philadelphia, and James Kniveton, Wyncote, Pa., assignors to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application July 17, 1947, Serial No. 761,602
21 Claims. (Cl. 263—3)



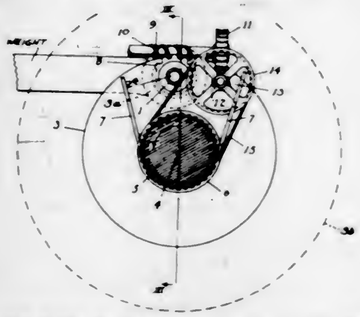
1. In a furnace control system, the combination of a plurality of axially aligned furnace sections through which elongated work is successively passed, an individual fuel supply for each furnace, individual means responsive continuously to the temperature of the work as it enters each furnace section, control mechanism to adjust individually the supply of fuel to each furnace section, connections between the responsive means for each furnace section and the control mechanism for that section to impress the responses of said means on said mechanism whereby the control mechanism will adjust the fuel supply for each furnace section in accordance with the temperature of the work entering that section.

2,664,284
SLAG REMOVAL
Robert A. Fausnaught, Pittsburgh, Pa., assignor to Haws Refractories Company, Johnstown, Pa., a corporation of Pennsylvania
Application October 29, 1949, Serial No. 124,441
1 Claim. (Cl. 263—52)



A method of breaking slag formations on the floor of an open-hearth ash pit which comprises constructing a hollow refractory tube on the floor of the pit and in a position to be covered by the slag as it collects in the pit, inserting a charge of explosive in the tube after it is covered by a body of slag, and detonating the explosive charge to thereby fracture the tube and the overlying body of slag.

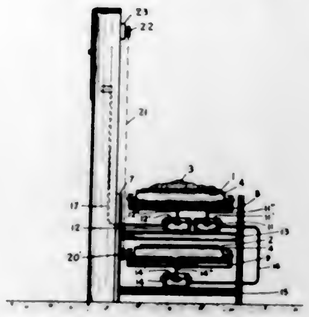
2,664,285
FRICTION REDUCING APPARATUS FOR GOVERNOR SPINDLES
Elmer L. Appleby, Calgary, Alberta, Canada
Application October 13, 1948, Serial No. 54,265
2 Claims. (Cl. 264—1)



1. Apparatus to reduce uneven wear of a suspension pin mounting the weight of a rotatable power or speed-controlling governor, comprising a governor wheel and its integral hub, a rotatable governor wheel shaft driving said governor wheel, a suspension pin passing through said hub and axially parallel with said shaft, rollers inserted in the hub of the wheel and enclosing the said suspension pin, means to rotate the pin and its rollers at a very slow rate of speed compared with that of the governor shaft, said means including a train of reduction gears disposed adjacently between the governor wheel and its shaft, a stationary pulley spacedly encircling said shaft, a second pulley associated with said train of gears rotatable around and spacedly from said stationary pulley and belt-connected therewith, to rotatively motivate the said suspension pin by means of said train of gears.

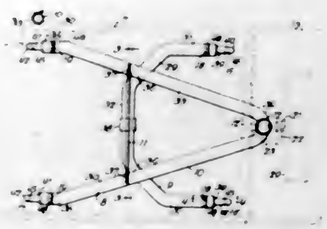
2,664,286
APPARATUS FOR DETERMINING WEIGHT OF MATERIAL ON CONVEYERS
Wilbur H. Frazel, Warren, R. I., assignor to B-I-F Industries, Inc., a corporation of Rhode Island
Application April 8, 1947, Serial No. 740,176
22 Claims. (Cl. 265—28)

13. In combination with a weigh span section comprising a movable upper spanner member for receiving the weight of a loaded section of a conveyor, and a movable lower spanner member for receiving the weight of an unloaded section of the conveyor; fluid-pressure means cooperating with said lower spanner member for response to the weight of said unloaded section, fluid-pressure transmitting means connected to said fluid-



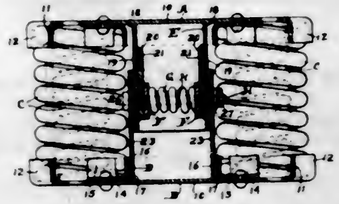
pressure means for applying upwardly to said upper spanner member a force corresponding with the weight on said fluid-pressure means, another fluid-pressure means cooperating with said upper spanner member in response to the net weight of material thereon, and means operable by said net weight responsive means to positions corresponding with said net weight.

2,664,287
BATHROOM SCALE CONSTRUCTION
John C. Sutton, Rockford, Ill., assignor, by mesne assignments, to Cellusuede Products, Inc., Rockford, Ill., a corporation of Illinois
Application January 7, 1947, Serial No. 720,577
11 Claims. (Cl. 265—71)



3. In combination, in a bathroom scale construction in which a platform is supported by lever mechanism on a base, a pair of wishbone levers, one of which has a V-shaped body of substantially twice the overall length of the body of the other which is U-shaped, the V-shaped and U-shaped bodies being both bent from single lengths of stiff tubing material of circular section and substantially uniform diameter and said bodies being disposed in overlapped relation and facing in opposite directions in substantially the same horizontal plane, the arms of the V-body being bent upwardly intermediate their ends to bridge over the cross-portion of the U-body, and a transverse yoke member having knife-edged end portions resting with point contacts on top of the upwardly bent portions of the arms of the V-body and having a depending hook portion on the middle thereof hooked under the cross-portion of the U-body.

2,664,288
COMBINED SPRING AND FRICTION SHOCK ABSORBING MECHANISM
Harry W. Mulcahy, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application October 7, 1952, Serial No. 313,473
12 Claims. (Cl. 267—9)



1. In a shock absorbing mechanism, the combination with a friction casing having lengthwise extending, interior friction surfaces; of friction plates within the casing having sliding frictional engagement with the friction surfaces thereof; resilient means within said casing bearing on said plates for pressing the same against said friction surfaces; a member opposed to said casing, said casing and member being movable toward and away from each other, the walls of said casing having lengthwise extending openings therethrough; and means for anchoring said plates to said member against movement lengthwise of the mechanism with respect to said member, said anchoring means extending into the casing through said openings and being fixed to said plates and member, respectively.

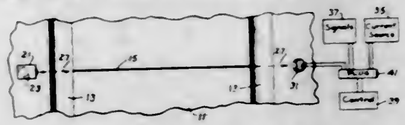
2,664,289
EXERCISING DEVICE
Adam T. Norwich, Cleveland, Ohio, assignor of one-half to William Nittskoff, Cleveland, Ohio
Application March 13, 1952, Serial No. 276,380
3 Claims. (Cl. 272—68)



1. An exercising ball comprising a compressible spherical body member of a size adapted to be grasped in the palm of the hand and having a substantially U-shaped finger loop formed integral therewith, the spherical surface of the body member being continuous between the termini of the loop.

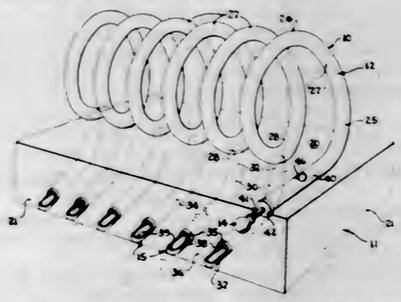
2,664,290
BOWLING FOUL INDICATOR
Walter S. Swift, East Rochester, N. Y., assignor to Edward J. Doyle, Rochester, N. Y.
Application March 25, 1950, Serial No. 151,960
9 Claims. (Cl. 273—50)

1. A bowling foul indicator including a phototube, means for projecting a beam of light adjacent a foul line of a bowling alley and toward said phototube in position to be intercepted when a foul is committed, a vacuum tube having a cathode, an anode, and a grid, means for supplying positive potential to said phototube and through said phototube to the grid of said vacuum tube to maintain said vacuum tube in conducting condition while current flows through said phototube, electric signal means including a visible signal, an anode circuit operatively connected to said vacuum tube and normally having a flow of current therein, a relay switch in said anode circuit, means operatively connecting said electric signal means to said relay switch in such manner as to initiate operation of said signal means when current ceases to flow in said anode circuit, circuit means including a resistor and a capacitor in parallel with each other and operatively connecting said cathode and said grid of said tube to each other to maintain the anode circuit of said tube in conducting condition for a



relatively short time interval after light ceases to fall on said phototube, sufficient to permit a ball to pass through said beam of light without causing a foul indication, a portable casing containing said vacuum tube and relay switch, said phototube and said signal means being mounted externally of said portable casing, and separable plug connection means associated with said portable casing and interposed in the electric circuits leading from the parts within said portable casing to the parts externally thereof, said portable casing being relatively small and containing all amplifying circuit parts so that all of such amplifying circuit parts may be removed from a bowling alley for convenient inspection and servicing by disconnecting said separable plug and removing said portable casing.

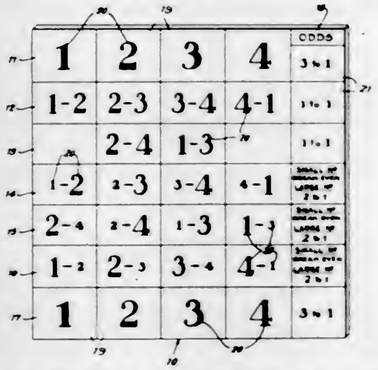
2,664,291
HELICAL RUNWAY BALL GAME
Harold F. Petterson, Redwood City, Calif.
Application October 6, 1950, Serial No. 188,740
1 Claim. (Cl. 273—121)



In an apparatus of the class described including a base having a horizontal surface provided with a plurality of ball exit openings, the combination therewith of a tubular ball runway having one straight end supported on said horizontal surface, a ball projecting means in said one straight end of said tubular ball runway, said tubular ball runway being coiled about a horizontal axis to provide a plurality of convolutions of equal diameter each having a ball drop-out opening in the lowermost extremity of its outer periphery, said convolutions being spaced from each other with their drop-out openings in register with corresponding ones of the ball exit openings in the horizontal surface of said base,

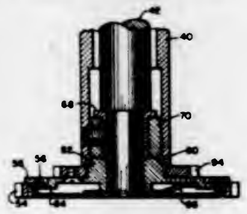
and a plurality of ball return means in said base each having a ball receiving end extending through corresponding ones of the ball exit openings in said horizontal surface and into the respective drop-out opening in the convolutions of said tubular runway for securing said convolutions to said horizontal surface.

2,664,292
CHANCE CONTROLLED GAME BOARD
William D. Lee, Chevy Chase, Md.
Application November 24, 1950, Serial No. 197,280
2 Claims. (Cl. 273—135)



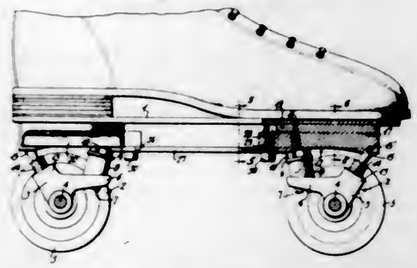
1. In a game device comprising the combination of a game board and chance control means in the form of a plurality of counting elements of a random number, an improved game board containing a plurality of rows of playing spaces, said playing spaces carrying numbers, the total of different numbers on said board being four and at least four of said playing spaces carrying one each of the four different numbers, each of the remaining playing spaces carrying one each of all combinations of any two of the four different numbers wherein the numbers are of equal dimension and one each of all combinations of any two of the four different numbers wherein the numbers are of unequal dimensions, and the said plurality of counting elements when counted off in groups of four leaving a remainder of counting elements corresponding to one of the four different numbers on said board.

2,664,293
DRIVE CONSTRUCTION FOR PHONOGRAPHS OR THE LIKE
Simon Yerkovich, Los Angeles, Calif., assignor to Dictaphone Corporation, Bridgeport, Conn., a corporation of New York
Application August 30, 1948, Serial No. 46,747
1 Claim. (Cl. 274—22)



In a phonograph transmission system, a rotatably mounted feed screw, a first gear-like unit keyed to said feed screw and having an annular surface, a second gear-like unit freely rotatable upon and axially slidable along said feed screw and having an annular surface opposing said first-mentioned annular surface, and a spider spring compressed between said units and frictionally engaging said annular surfaces: one of said units including portions interengaging portions of the other unit and holding said units against axial separation by said spring.

2,664,294
RINK ROLLER SKATE WITH QUICKLY EXCHANGEABLE TRUCKS
Harry Kleinman, Staten Island, N. Y.
Application May 22, 1950, Serial No. 163,475
3 Claims. (Cl. 280—11.27)



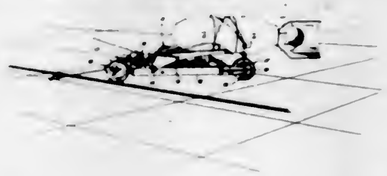
2. Skate, including a foot plate, trucks therefor at front and rear, detachable coupling means between said trucks and foot plate, said coupling means comprising a slide carried by each truck and guides for said slides fixed to said foot plate, one at the front, the other at the rear, said guides each comprising a base member having a longitudinal slot therein with parallel sides, closed at one end and open at the other, said guides being arranged with the open ends of said slots facing respectively to front and rear of said foot plate, the closed ends being directed inwardly, said slides each having a keeper shaped to fit the slot in the corresponding guide and slidable therein, and having a portion integral with said keeper extending inwardly beyond the closed end of said slot when said keeper is seated against the closed end and a tie bar detachably secured to said extending portions maintaining said keepers tight against said closed ends.

2,664,295
ROLLER SKATE HAVING DETACHABLE ROLLER ASSEMBLY
Earl Van Horn, Mineola, N. Y.
Application July 6, 1950, Serial No. 172,247
10 Claims. (Cl. 280—11.28)



1. In a skate, a footplate, a hanger thereon having a plate spaced from the footplate, a roller assembly comprising an axle, an axle bracket having an arm extending longitudinally from the axle and a truck arm extending upwardly from the axle, means for connecting the upper part of the truck arm with the footplate, a kingpin passing through an orifice formed in said longitudinally extending arm of the axle bracket and having a head passing through an orifice formed in said plate of the hanger, said second orifice being longitudinally spaced from the connection of the truck arm with the footplate, said kingpin head being above the plate of the hanger, a removable retainer interposed between said head and the plate of the hanger, a pressure member interposed between the longitudinally extending arm of the axle bracket and the hanger, and a nut under said longitudinally extending arm in threaded engagement with the kingpin.

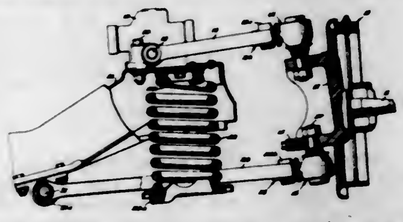
2,664,296
TIRE FOR BOMB TRUCKS
Joseph H. Prowinsky, Washington, D. C.
Application November 9, 1951, Serial No. 255,722
10 Claims. (Cl. 280—29)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. The combination with a lift truck of the type used on aircraft carriers and which must be pulled over aircraft arresting cables normally stretched transversely across the carrier's deck, said cables each having a diameter of about 1½'', said truck comprising a frame, lifting arms, a mechanism actuating said arms, and wheels supporting said frame, said wheels having a track within the range of between 2–3½'; of a rim having a substantially solid tire mounted thereon for each of said wheels, each of said tires having around its outer periphery a tread portion provided with cable gripping walls defined by staggered substantially semi-cylindrical grooves extending alternately from the opposite lateral edges of the tread portion inwardly and obliquely counter to the direction of normal travel of said tire in crossing one of said cables to a point slightly beyond the centerline of the tread, said alternate grooves being oppositely or reversely inclined at an angle of about 60° relative to said centerline and having a radius equal to substantially one-half the diameter of the cables, whereby when said wheels approach a cable at an angle of about 60° as defined by the axis of said cable and the plane of the centerline of said tread, substantially immediately upon contact of one of said tires with said cable, the cable will be gripped and partially embraced by the walls defining one of said grooves thus enabling the truck to be pulled over the cable one wheel at a time with a minimum of effort.

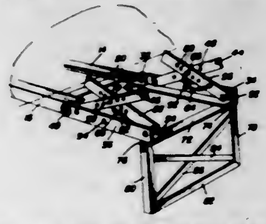
2,664,297
WHEEL CAMBER AND CASTER ADJUSTING MECHANISM
James H. Booth, Venice, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application October 30, 1948, Serial No. 57,440
4 Claims. (Cl. 280—96.2)

1. In an adjustable wheel suspension including a control arm having a threaded aperture, a steering knuckle supported by the control arm, and a ball joint connecting the steering knuckle with the control arm, the improvement for adjusting the effective length of said control arm to alter the camber of the steering knuckle which comprises a solid tapered adjusting arm connected to the housing of said joint an externally threaded split sleeve member adjustably threaded in the threaded aperture in said control arm and having a coaxial tapered bore receiving said



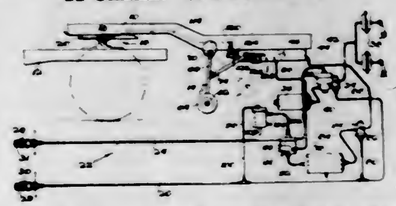
adjusting arm, and means for drawing said adjusting arm into said bore and thereby expanding the sleeve to move the threads on the sleeve into wedging engagement with the threads in the aperture to lock said sleeve in said aperture in a selected position and to lock said adjusting arm in said bore.

2,664,298
FOLDING TRAILER DRUM RACK
Donald E. Shelby, Flint, Mich., assignor of fifty per cent to Kenneth W. Poling, Flint, Mich.
Application November 14, 1952, Serial No. 320,530
7 Claims. (Cl. 280—150)



1. A folding trailer attachment adapted to support a drum comprising a frame adapted to be attached to a trailer, a pair of spaced parallel side members pivotally attached to said frame, a supporting member pivotally associated with said side members, and drum supporting means carried by said side members, said drum supporting means including pairs of arms pivotally attached to opposite ends of said side frame members, and means for locking said pairs of arms in a crossed position with said arms extending at an acute angle relative to said side members.

2,664,299
TRAILER LANDING GEAR
Ellery R. Fitch, Elyria, Ohio, assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware
Application August 17, 1948, Serial No. 44,741
11 Claims. (Cl. 280—429)



7. In a tractor-trailer vehicle train having a coupling device for mechanically coupling the

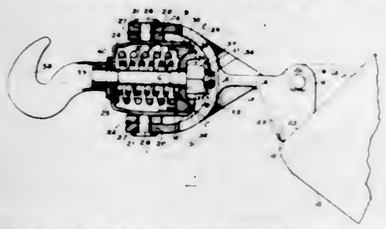
tractor and trailer and wherein the tractor and trailer are each provided with a fluid pressure brake system, a pivotally mounted landing gear on the trailer mounted for movement to a retracted or to an extended position, power means operable by fluid pressure from the trailer brake system for operating said landing gear to said retracted and extended positions, and means including a valve controlled by said coupling device for connecting said trailer brake system and power means when the vehicles are mechanically coupled.

2,664,300

DRAFT RIGGING FOR VEHICLES

Vernon S. Danielson, Dolton, and William D. Wallace, Park Forest, Ill., assignors to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application July 11, 1951, Serial No. 236,211
4 Claims. (Cl. 280—486)



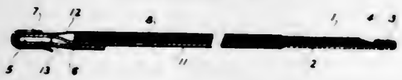
1. In a draft rigging for vehicles, the combination with a supporting member pivotally connected at one end to a vehicle for swinging movement in a vertical plane, said supporting member being forked at its other end providing spaced top and bottom arms; of a friction shock absorber between said arms including a friction casing swivelled between its ends to said arms for rotation about a vertical axis; and a drawbar connected to said shock absorber for actuating the same.

2,664,301

CARBON PAPER PACK FOR MANIFOLDING TYPEWRITERS

Joseph Carroll Doyle, Rochester, N. Y., assignor to Kee Lox Manufacturing Company, Rochester, N. Y., a corporation of New York

Application June 26, 1952, Serial No. 295,681
3 Claims. (Cl. 282—1)



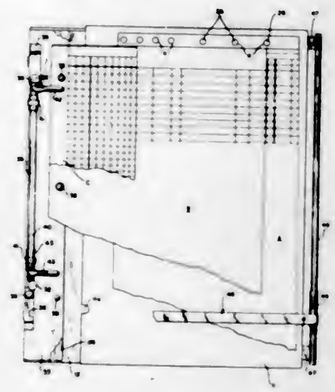
1. A carbon pack for manifolding typewriters comprising a multiplicity of superposed independently and outwardly folded sheets of carbon paper alined at their ends and a backing sheet of thick paper stock to the front end of which said carbon sheets are secured while the opposite end of each carbon sheet is free and has its carbon surface facing outwardly, said backing sheet extending rearwardly beyond the carbon sheets and having a portion at its rear end that is folded outwardly around and under a supporting bar, a wrapper of thin light weight paper stock having a continuous and unbroken front portion extending across the outwardly facing carbon surface of the outer carbon sheet, and rear portions extending around the side edges of the carbon sheets and across the outer surface of the backing sheet and secured to said outer surface of the backing sheet, the forward edge of said front portion of the wrapper terminating in spaced relation behind the forward free edge of the outermost carbon sheet and exposing the latter to permit gripping and pulling out the exposed carbon sheet without disturbing the wrapper or the underlying carbon sheets, and an extension on the front portion of the wrapper projecting rearwardly beyond the folded ends of the carbon sheets and having a portion at its rear end folded inwardly around and beneath said folded portion of the backing sheet and the supporting bar in contiguous relation to the backing sheet when the latter is attached to the supporting bar.

2,664,302

ORDER BOARD

Thomas C. Griffin, Denver, Colo.

Application March 9, 1951, Serial No. 214,678
20 Claims. (Cl. 282—29)



1. An order board for use in positioning order forms and the like, comprising a relatively flat base portion formed in two relatively movable telescoping sections, the inner section of which has an edge exposed in all positions of said sections means associated with one of said sections and disposed along and adjacent a side thereof for removably supporting order forms, and means associated with the normally exposed edge of said inner section and located along and adjacent a side of said inner section and extending in a line substantially perpendicular to the first-named means for removably supporting additional order forms said last named means associated with said inner section being arranged to extend laterally over to overlap the top writing surface of said outer section when said inner section is telescoped entirely within said outer section.

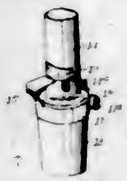
2,664,303

CONE AND SOCKET PIPE JOINT WITH COOPERATING LOCKING LUG

Ernest John Mansfield, Lower Sydenham, London, England, assignor to W. Edwards & Co. (London) Limited, London, England, a British company

Application December 4, 1950, Serial No. 198,933
4 Claims. (Cl. 285—175)

1. A joint for fastening together two apparatus components, comprising complementary cone and socket joint portions formed on said components, an abutment presented by one of said components, a clip and a rim at the edge of the socket joint portion, said clip being formed integrally from a single piece of resilient material and comprising a part-circular band, a part-circular abutment disposed coaxially with but of lesser diameter than said band and spaced apart from said band axially of said cone and socket joint portions, and an at least partially resilient, substantially U-shaped bent portion extending from one edge of and substantially perpendicular to said band to connect said band and said abutment, said part-circular band being detachably engageable around said socket joint portion and said abutment being adapted to engage over a further abutment formed on the second component, one of said abutments presenting a short helically extending surface with respect to said band when said band is engaged around the socket joint portion, whereby, since axial displacement of said band is prevented by said rim, said first-named abutment is urged axially along the joint to deform said bent portion when said clip is rotated relative to said second component into a locking position, said components at all other relative positions of said clip and said second component not being held in positive engagement by said clip, and therefore easily being separable.

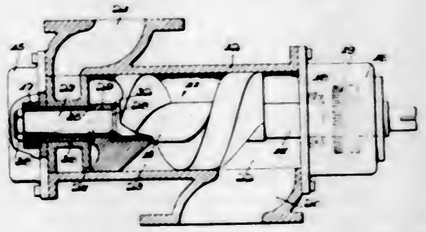


2,664,304

AUTOMATICALLY BALANCED ROTOR ASSEMBLY

Gilbert Rathman, Union, N. J., assignor, by mesne assignments, to Dresser Industries, Inc., a corporation of Pennsylvania

Application December 20, 1950, Serial No. 201,828
12 Claims. (Cl. 287—52)



4. A rotor assembly comprising a shaft, a separately formed rotor body mounted on said shaft for rotation therewith, said rotor body being formed of a material having a higher coefficient of thermal expansion than that of said shaft, and means for maintaining said rotor body concentric with said shaft when the assembly is subjected to elevated temperatures and the rotor body expands to a greater extent than said shaft, said means including elements rotatable with said shaft forming a pair of axially spaced, oppositely inclined shoulders extending divergently from the axis of said shaft, an annular portion of said rotor body projecting radially inwardly between said shoulders, and a pair of expansible rings interposed between and in contact with both said shoulders and the adjacent edges of said annular portion of the rotor body.

2,664,305

SHIFT ROD ADJUSTING CLAMP

John P. Hobart, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 7, 1949, Serial No. 86,089
2 Claims. (Cl. 287—54)



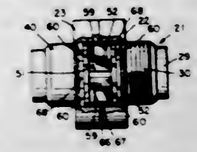
2. In a rod clamp, a block having an aperture therein extending through the block between two opposed side surfaces to receive a first rod, aligned studs transversely located with respect to said aperture and secured to two opposed end surfaces of said block transversely located with respect to said two opposed side surfaces, means to pivotally secure one of said studs to a second rod, a clamping element having a base portion and a narrow surrounding side wall portion providing a central cavity, said base portion of the clamping element having an aperture, said side wall portion of said clamping element having a cooperating inside surface engaging a side surface of said block to prevent relative rotation and a V-shaped recess in the edge of two opposed narrow side wall parts of said surrounding side wall portion having the inside surfaces adjacent the apertured opposed surfaces of said block, said clamping element being positioned on said block with the other of said studs passing through said last named aperture and said inside faces adjacent the side faces of said block with the V-shaped recesses engaging the first rod in said first named aperture and means on said other stud engaging said clamping element to force the clamping element into engagement with the first rod.

2,664,306

LATCH RETRACTOR AND HOUSING

Robert C. Cerf, Jr., North Hollywood, Calif., assignor to Hollymade Hardware Manufacturing Company, Los Angeles, Calif., a corporation of California

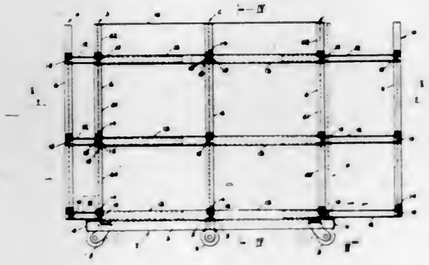
Application February 16, 1952, Serial No. 271,946
5 Claims. (Cl. 292—169)



1. In a door knob lock and latch set of the type described having separate knob spindles, a body having a cavity for a retractor, said body being assembled from two die-cast portions, each of said portions having an integral axial bearing sleeve for a knob spindle extending from the side walls of said cavity, said body having an opening for an operating connection from a retractor to a spring latch means; a pair of steel guide plates having retractor guide slots arranged to line the opposite edge walls adjoining said side walls of said cavity; a pair of steel bearing plates arranged to line the side walls of said cavity, each

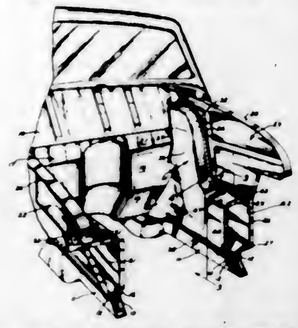
of said bearing plates being provided with a hole adapted to receive a knob spindle; said guide plates and said bearing plates being provided respectively with edge tabs and tab receiving slots adapted to coact with tab receiving slots in said die-cast portions to hold said plates rigidly in place when assembled as a renewable lining in said cavity.

2,664,307
RACK TRUCK FOR RUGS
Louis A. Wieland, Pittsburgh, Pa.
Application November 2, 1951, Serial No. 254,541
3 Claims. (Cl. 296—3)



1. Apparatus for storing and transporting rolled rugs comprising a base in the form of a rectangular frame having two side and two end members of structural metal sections mounted on wheels adjacent the corners of said frame to support the structure on a floor for travel, a plurality of fixed supports comprising a row of masts formed of lengths of a structural metal section rigidly secured to said base and extending upwardly therefrom at points spaced apart on the longitudinal center-line of the base, each of said masts having a plurality of pairs of arms formed of lengths of structural metal sections secured to the masts at vertically spaced apart points, with the arms of each pair extended on opposite sides of the associate mast and aligned transversely of the row of masts, providing on each side of the row a plurality of flights of horizontally aligned arms adapted severally to receive and support rolls of rugs, one of said masts being located centrally of said row, metal tubes united to the central mast and positioned in the horizontal planes of said flights of arms, said tubes extending from opposite sides of said central mast to the masts in row next adjacent to said central mast, with the several horizontally disposed tubes aligned above each other in common vertical plane with the center-line of the base, an auxiliary support at each end of the row of fixed supports above defined, each auxiliary support comprising a vertical mast having pairs of arms extending laterally therefrom, a plurality of lengths of a structural metal section rigidly united to the mast of each auxiliary support and telescopically received severally in and adjustable in said tubes at one end of the row of fixed supports, the two auxiliary supports thus carried at the opposite ends of said row of fixed supports having their arms aligned in the planes of said flights of arms of the fixed supports, said assembly providing for the horizontal adjustment of said auxiliary supports relatively to said row of fixed supports, whereby the length of said flights may be adjusted for rugs of various lengths and for balancing the load of rugs on the apparatus.

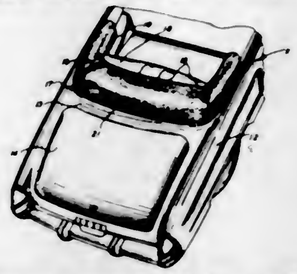
2,664,308
VEHICLE BODY CONSTRUCTION
Walter D. Appel, Orchard Lake, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application August 25, 1951, Serial No. 243,615
2 Claims. (Cl. 296—28)



1. In a motor vehicle body construction, a transversely extending cowl structure, a pair of longitudinally extending sill members supporting said cowl structure and extending forwardly therefrom, said sill members being laterally spaced on opposite sides of the longitudinal center line of the vehicle body, a pair of sheet metal side panels defining the outer sides of an engine compartment and the inner sides of wheelhouses, said side panels being inclined downwardly and inwardly toward said longitudinal center line and having their rearward and lower edges conforming and secured to said cowl structure and sill members respectively, and a pair of reinforcing members of L-shaped cross section each having an upper leg secured at its marginal edge to the inner side of one of said side panels and an inner leg bridging the space between said cowl structure and the extended portion of one of said sill members and secured at its marginal edges thereto, a plate secured at its edges to said side panel and to the intermediate portion of the marginal edge of said inner panel of the reinforcing members, said reinforcing members, sill members, side panels, plates and cowl structure mutually bracing each other to form a unitary body structure and cooperating with each other to form enclosed ducts at opposite sides of the vehicle body for the transmission of heating and ventilating air from the front portion of the vehicle body to said cowl structure, and said cowl structure having a pair of openings formed therein in alignment with said ducts, the reinforcing member at one side of said vehicle body being formed with an opening in its upper leg at the forward portion thereof for the insertion therethrough of a heater element, and the adjacent inclined side panel being formed with a vertically extending portion at its forward end cooperating with said reinforcing member to form therewith an enlarged rectangular box section chamber for receiving a heater element.

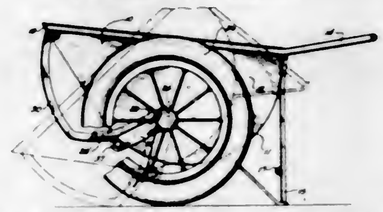
2,664,309
CONVERTIBLE TOP BOOT CONSTRUCTION
Alfred Kavalar, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application October 24, 1952, Serial No. 316,703
4 Claims. (Cl. 296—136)

1. In a motor vehicle having a convertible type body provided with a well for receiving the top, a belt molding secured to the body adjacent the edges of the well, said molding having a continuous cylindrical beaded edge at its inboard side, a fabric boot for covering the well when the top is down and having a marginal edge adapted to overlap the cylindrical beaded edge of the molding, a plurality of fastening elements secured to the underside of said boot and each having a plu-



rality of spring fingers adapted to resiliently engage opposite sides of the cylindrical beaded edge of the molding, and a binding secured to the outboard edge of the boot and having a portion thereof extending partially over the belt molding and concealing the fastening elements from normal view.

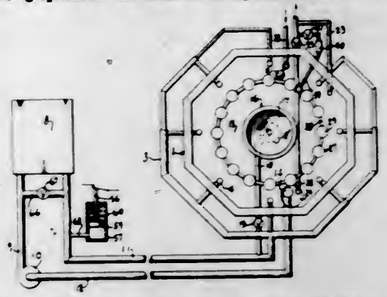
2,664,310
DUMP CART
Wesley J. Mueller and Irving R. Smith, Milwaukee, Wis., assignors to Sterling Wheelbarrow Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 27, 1949, Serial No. 135,118
5 Claims. (Cl. 298—5)



4. In a cart having a body portion forming a receptacle: an axle rotatably mounted on said body substantially forwardly of a point midway of the length of said body, crank arms rigidly connected at one end to the ends of said axle, stop means on said body having crank engaging portions normally positioned above said crank arms to be engaged by said crank arms when the latter are extending obliquely upwardly and rearwardly to offset the axis of the wheels rearwardly of the axis of the pivotal connection between the body and crank arms when the body is in normal upright position, and releasable means between said body and axle for selectively locking said axle against rotating movement when the body is in normal position or when the body is in tilted position.

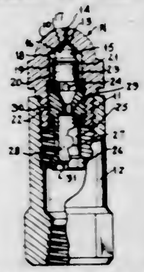
2,664,311
LIGHTED COOLING BASIN FOR AIR CONDITIONING UNITS
Marcus M. Cunningham, Houston, Tex., assignor of one-third to John R. Main and one-third to Alvin S. Moody, both of Houston, Tex.
Application June 11, 1951, Serial No. 230,989
3 Claims. (Cl. 299—4)

1. A cooling system for heated fluid from a heat imparting unit which includes a pump, said cooling system comprising, a basin, a manifold, a conduit line connecting said manifold with the discharge side of said pump, tubular risers from said manifold extending upwardly into said basin and being radially spaced from the center of said basin and substantially diametrically opposed to each other across said basin and having radial slots therein spaced one above the other and above the bottom of said basin through which said fluid under the force of said pump may be expelled in fan-like sprays and directed



radially inwardly toward the center of said basin so that said sprays from said opposed risers impinge upon each other to aerate and cool said fluid, a conduit line in said basin below said slots for returning the cooled fluid to the suction side of said pump, electric lights in the basin to light the system, a circuit for conveying electric current to said lights, and means actuated upon the diminution of the pressure of the fluid delivered to the basin below a pre-determined pressure to break said circuit.

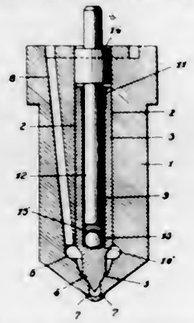
2,664,312
OIL BURNER FILTER
Walter V. Czarnecki, Jr., Bacderwood, and Casimer M. Czarnecki, Philadelphia, Pa., assignors to Eddington Metal Specialty Company, Eddington, Pa., a copartnership
Original application February 21, 1950, Serial No. 145,494. Divided and this application December 22, 1950, Serial No. 202,242
2 Claims. (Cl. 299—107)



1. In combination, an oil burner nozzle, including a dome-like portion having an internal conical seat and an orifice communicating with said seat at the apex thereof, said nozzle also having an extension remote from the dome-like portion which is internally threaded, a core member in said nozzle having a conical surface engaging said seat and formed with kerfs, and a filter assembly assembled on said nozzle, said filter assembly including a filter holding cage comprising an intermediate body portion that is externally threaded and screwed into the internal threads of said extension, a tubular extension extending upwardly from said body portion and engaging said core member to hold the latter in position in said nozzle, a depending tubular ex-

tension carried by said intermediate body portion and formed with ports, a screen disc positoned within said cage, a felt filter plug within said depending extension and engaging said screen disc, and means for maintaining said filter plug assembled in said depending extension.

2,664,313
FUEL INJECTION APPARATUS FOR INJECTION ENGINES
Tsurukichi Ono, Fukushima-Ken, Japan
Application July 28, 1950, Serial No. 176,396
3 Claims. (Cl. 299—107.6)



1. In a fuel injection assemblage for internal combustion engines, a valve body having a fuel chamber therein, means defining a fuel feed conduit in the body leading from a supply source to the fuel chamber, fuel discharge ports in the body below said chamber and in communication therewith, further means defining an inverted frusto-conical valve seat in the body intermediate the fuel chamber and the discharge ports, a bore extending longitudinally of the body from one end of the body and merging with the fuel chamber, a valve spindle lodged in and reciprocable in said bore, a conical head on said spindle adapted to cooperate with the wall of the valve seat to open and close communication between the fuel chamber and the discharge ports, the said valve spindle being provided with a bore extending longitudinally from the end remote from the conical head and terminating in a seat, a push rod slidably mounted within the spindle bore with the axis of the push rod coinciding with the axis of the valve spindle, a spherical object lodged between the inner end of the push rod and the seat in said spindle defining a contact area between the push rod and the valve spindle falling on the axis of the push rod and the spindle, an enlarged area on the said push rod at a point above the valve spindle of the same diameter as the outer diameter of the valve spindle slidably engaging the wall of the bore in said body to guide the push rod within the spindle bore, and means operatively associated with said push rod to maintain the conical head of the valve spindle normally in engagement with the frusto-conical seat.

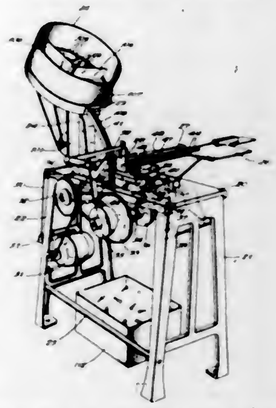
2,664,314
SPRAY NOZZLE
William M. Cissell, Louisville, Ky., assignor to W. M. Cissell Mfg. Company, Incorporated, Louisville, Ky., a corporation of Kentucky
Original application November 22, 1943, Serial No. 511,353. Divided and this application November 16, 1949, Serial No. 127,684
3 Claims. (Cl. 299—150)

1. In a valve comprising a casing having a chamber therein provided with an inlet and a spray orifice communicating therewith and a nozzle detachably mounted on said casing; said nozzle having a cylindrical cavity concentric with the chamber of said casing a wall in which said spray orifice is located and a valve seat surrounding said orifice; a bonnet having a chamber therein concentric with the chamber of said casing; a resilient diaphragm held at its periphery between the casing and bonnet for sealing the bonnet chamber from the casing chamber; the combination of an axially-movable plunger mounted within the bonnet chamber for slidable engagement therewith and having its lower end secured to



the diaphragm; a movable valve stem positioned in the casing chamber and having its upper end secured to said plunger and the diaphragm and is lower end equipped with a head and plug-valve, the head slidably engaged with said cavity so that the plug-valve will be engageable with the valve seat in said nozzle; a spring operatively associated with the bonnet and the plunger for biasing the plug-valve into engagement with the said valve seat to close the orifice; and an actuating member operatively associated with the bonnet and plunger for operating the movable members against the action of said spring means to open said orifice.

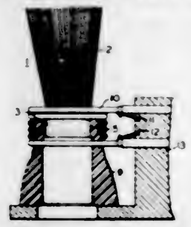
2,664,315
BRUSH ASSEMBLING MACHINE
John G. Baumgartner, Oswego, Ill.
Application January 19, 1950, Serial No. 139,361
13 Claims. (Cl. 300—2)



1. A machine for assembling brushes which include first portions having elongated stems made of resilient material and bristles secured thereto and caps which serve as handles for the brushes and which have recesses therein for receiving the stems, said machine including in combination, an assembly slide, an assembly fixture adjacent said assembly slide having such configuration to receive a cap and support the same in a predetermined position, conveying means for individually providing the caps in said assembly fixture in said predetermined position, said assembly slide having clamp means for releasably

engaging the sides of the elongated stem of a brush for holding the same in a position in alignment with the recess of the cap held in said assembly fixture, feeding means for receiving a plurality of stem and bristle portions and supplying the same adjacent said assembly slide, ejector means for individually removing said stem and bristle portions from said feeding means and positioning the same in said clamp means, and operating means for moving said slide so that the stem held in said clamp means is forced into the recess in the cap supported in said fixture, said operating means thereafter withdrawing said slide together with the assembled brush for removing the cap thereof from said assembly fixture, and then releasing said clamp means to thereby drop the assembled brush from said fixture.

2,664,316
METHOD OF MAKING BRUSHES
Charles H. Winslow, Jr., Florence, and Harry S. Williston, Williamsburg, Mass., assignors to The Lambert Company, a corporation of Delaware
Application February 5, 1948, Serial No. 6,426
11 Claims. (Cl. 300—21)



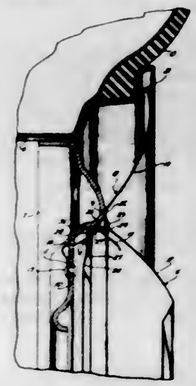
1. The method of constructing brushes which comprises assembling a plurality of dielectric thermoplastic bristles in tuft form, confining said tuft adjacent its base with a metal member, said member being spaced from the base of the tuft but sufficiently close thereto to hold the base portions of the bristles extending beyond the confining means closely packed, positioning an electrode across the base of the tuft and placing said metal member and said electrode in circuit with an electronic power generator to thereby fuse the material of the bristles between the metal member and electrode into a unitary block.

2,664,317
COMPOSITION ROLLER SKATE WHEEL
Thomas Glynn, West Haven, and John W. Cleever, Milford, Conn., assignors to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey
Application April 11, 1951, Serial No. 220,540
1 Claim. (Cl. 301—5.3)



A composition roller skate wheel having a rim portion providing a roller surface consisting essentially of a homogeneous mixture of 18 to 40 per cent butadiene-acrylonitrile copolymer, 22 to 45 per cent cashew nut shell liquid modified phenol-aldehyde resin, 15 to 45 per cent zinc oxide, 6 to 10 per cent finely divided rottenstone of a particle size through 100 mesh, and the balance plasticizing, vulcanizing and accelerating agents for said copolymer, said rim portion being heat hardened and having a hardness between about 80 and 100 as measured upon the C-scale of a Shore Durometer.

2,664,318
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application August 13, 1949, Serial No. 110,101
9 Claims. (Cl. 301—37)

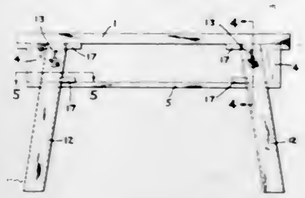


1. In a wheel structure including a multiflange tire rim and a load-sustaining body portion having an intermediate annular nose bulge and generally centrally disposed cover retaining clip means, a wheel cover for the outer side of the wheel including a central crown portion and a trim ring portion, the central crown portion being dimensioned to substantially cover the central portion of the wheel body and the trim ring portion being dimensioned to substantially cover the tire rim and the portion of the wheel body intervening between the tire rim and the central crown portion, the trim ring portion having a generally L-shaped annular intermediate flange seating on the nose bulge and also having a central radially inwardly extending flange underlying the crown portion and including apertures having radially outer respective edges cooperating with the retaining clip means on the wheel body to retain the cover on the wheel, the central crown portion having a generally axially extending marginal flange permanently interconnected with the trim ring portion intermediate said L-shaped annular intermediate formation of the trim ring portion and said aperture in the central retaining flange of the trim ring portion.

2,664,319
COLLAPSIBLE SAWHORSE OR TRESTLE
Edmund J. Doucette, Long Branch, N. J.
Application January 29, 1949, Serial No. 73,540
2 Claims. (Cl. 304—5)

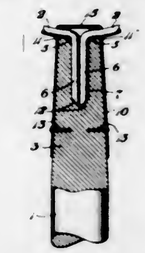
1. In a saw horse or trestle, a top rail, longitudinally extending flat braces attached to the underside of said rail at either end thereof, a brace bar extending parallel to said top rail, said brace bar and said longitudinally extending flat braces having side edges with corresponding angles, vertical braces in engagement at both ends with the underside of said top rail and at-

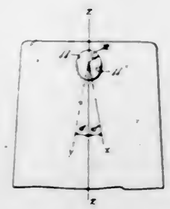
tached laterally to the angled side edges of said braces and said brace bar, legs pivotally and longitudinally adjustably supported from said top rail whereby the legs may be moved into supporting position or into inoperative collapse positions, said legs having angled side edges, each



of said vertical braces having its inner edges angled to contact and abut at least one adjacent leg in edgewise engagement, and transversely extending braces carried by said top rail and said brace bar for wedging said legs against the vertical braces in the supporting position.

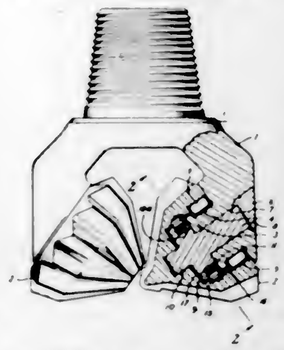
2,664,320
JOINT AND METHOD OF ASSEMBLING THE SAME
Samuel Fox, Baltimore, Md.
Application October 16, 1950, Serial No. 190,339
6 Claims. (Cl. 306—45)





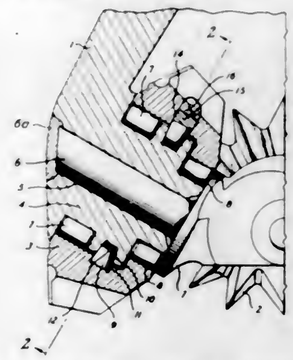
5. In combination, a handle element having at an end thereof a socket and groove means transversely disposed at the outlet of the socket, a unitary integral ferrule element fitting over said end of the handle element and having a pair of diametrically opposed openings in the lateral surface thereof, the major axes of the openings being angularly disposed with regard to a plane passing through the vertical axis of the ferrule and which plane intersects the peripheries of said openings, the peripheries of one end portion of the openings being divergent while the other end portion of their peripheries are in alignment, and a wire element having two ends thereof fixedly located in said socket and groove means and passing through said openings in the ferrule element.

2,664,321
ROLLER BIT
Wiley B. Noble, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application September 14, 1950, Serial No. 184,819
9 Claims. (Cl. 308—8.2)



1. A bit having a shaft; a roller cutter rotatable on said shaft; said shaft having a raceway with inwardly tapered side walls, said cutter having a raceway with substantially parallel side walls and a rounded, grooved bottom; thrust bearing rollers in said raceways, rotatable on axes substantially radial to the axis of rotation of said cutter, and having tapered inner portions to bear against each other and against the tapered side walls of said shaft raceway, a substantially cylindrical portion to engage the substantially parallel side walls of said cutter raceway, and a rounded end to engage the rounded bottom of said cutter raceway; a spring in said shaft raceway to urge said rollers outwardly into their operative positions; and load sustaining bearings on each side of said thrust bearing rollers.

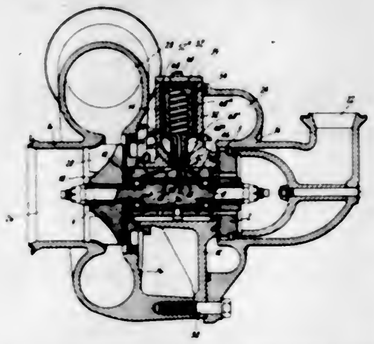
2,664,322
ROLLER BIT
Elvin G. Boice, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application October 9, 1950, Serial No. 189,264
5 Claims. (Cl. 308—8.2)



1. A bit having a shaft; a roller cutter rotatable on said shaft; said shaft having a raceway with inwardly tapered side walls, said cutter having a raceway with inwardly tapered side walls, thrust bearing rollers in said raceways, rotatable on axes substantially radial to the axis of rotation of said

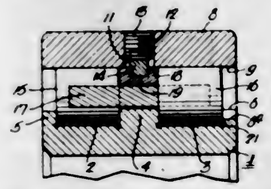
cutter, and being tapered substantially from end to end to bear against each other and against the tapered side walls of said shaft raceway and said cutter raceway; a plurality of spring rings in said shaft raceway to urge said rollers outwardly into their operative positions; said cutter having an opening through which said rollers may be inserted to compress said rings and to occupy said raceways; means to close said opening after said bearing rollers are in place; and load sustaining bearings on each side of said thrust bearing rollers.

2,664,323
LUBRICATING MECHANISM
Wilson M. Alford, Windsor, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application October 17, 1952, Serial No. 315,239
14 Claims. (Cl. 308—125)



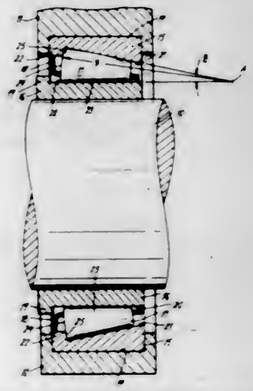
1. In a mechanism of the character described having a bearing, an element rotatably supported by said bearing, a structure providing a receiving chamber associated with said bearing, an assembly mounted in said chamber and removable as a unit therefrom and including a casing for containing lubricant having an oil outlet, an oil absorbent pad connected with said casing and extending across said outlet and a wick distributed in the casing and having an oil transferring connection with said pad, said mechanism having means for leading oil from said chamber to said bearing.

2,664,324
MULTIROW CYLINDRICAL ROLLER BEARING WITH REMOVABLE INNER ASSEMBLY
Per Gunnar Palmgren, Philadelphia, and Joseph Loretto Brusca, Cheltenham, Pa., assignors to SKF Industries, Inc., Philadelphia, Pa., a corporation of Delaware
Application October 14, 1948, Serial No. 54,524
10 Claims. (Cl. 308—213)



1. A multi-row roller bearing comprising an inner race ring having a plurality of inner races, rollers in said races, an outer race ring having unobstructed cylindrical inner roller-engaging surfaces, a continuous annular member embracing said inner ring between two adjoining rows of rollers, and means radially adjustable in the outer ring for releasably locking said ring to the annular member.

2,664,325
FLOATING TYPE ROLLER BEARING
Albert L. Bergstrom, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application December 21, 1950, Serial No. 202,039
2 Claims. (Cl. 308—214)

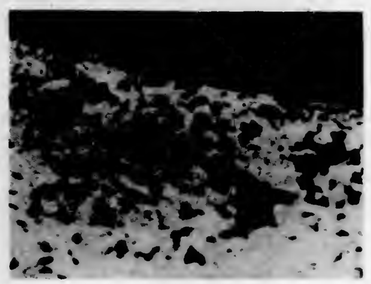


1. In a roller bearing for supporting a rotatable shaft for axial movement relative to a support for the bearing, the combination of an inner race ring secured to the shaft, said inner race ring having a cylindrical race, an outer race ring secured to the support so as to be stationary relative to the shaft, said outer race ring having a conical race, a series of substantially conical rollers disposed between said races, each roller having its apex point on the surface of said cylindrical race or a projection of such surface, and each roller being longitudinally crowned to provide a central portion in running contact at all times between said races, and a thrust rib integrally formed at the large diameter end of said outer race, said thrust rib having a spherical thrust face and the largest ends of said rollers having matching thrust faces engaging said thrust rib face for taking up axial thrust.

2,664,326
PLATED BEARING AND THE MANUFACTURE THEREOF
Jerome F. Kuzmick, Upper Montclair, N. J., assignor to Ekstrand & Tholand Inc., New York, N. Y., a corporation of New York
Application February 11, 1947, Serial No. 727,772
6 Claims. (Cl. 308—237)

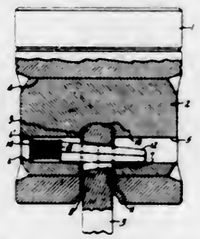
1. The method of making a porous plated bearing comprising forming a bearing body of powdered ferrous metal by molding the powder into the shape of a bearing under sufficient pressure to produce a green compact mass capable of retaining its form and which includes interconnected pores, electroplating the bearing surface of said body with a bearing metal forming a porous metallic coating, subjecting the electroplated bearing body to a heat treatment of sufficient intensity and sufficient duration to remove any salts retained in the body, and heating the bearing body sufficiently to sinter the powdered bearing body mass to provide mechanical strength for

retaining the bearing in operating condition while retaining the porous structure.



4. A bearing made according to the process of claim 1 wherein the plated bearing comprises a body of porous ferrous metal with an electroplated bearing surface wherein the plated bearing is free of salts.

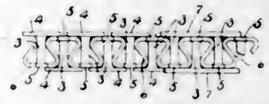
2,664,327
PISTON WRIST PIN ASSEMBLY
Marvel A. Elliott, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application February 15, 1951, Serial No. 211,071
2 Claims. (Cl. 309—19)



1. In a wrist pin and connecting rod assembly for compressors and the like, a wrist pin having a longitudinal passage therein, a portion of reduced diameter at one end of said longitudinal passage providing an entrance of reduced size to said longitudinal passage and a shoulder within said longitudinal passage, said wrist pin having a second passage therein extending transversely from said longitudinal passage through the exterior of said wrist pin, a connecting rod having a portion extending through said second passage, said portion having an opening in general alignment with said longitudinal passage, a tapered key insertable through said entrance disposed within said longitudinal passage and extending into said opening in said portion of said connecting rod, and a spring for biasing said key to engagement with said connecting rod portion adjacent said opening, said spring having at least one turn at one end thereof of diameter greater than the smallest dimension of said entrance bearing upon said shoulder.

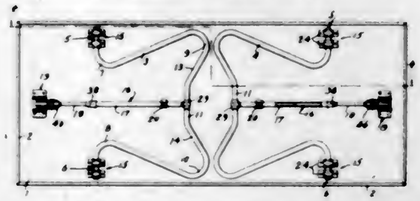
2,664,328
PISTON RING CONSTRUCTION
Douglas W. Hamm, Muskegon, Mich., assignor to Muskegon Piston Ring Company, Muskegon, Mich., a corporation of Michigan
Application June 5, 1952, Serial No. 291,869
4 Claims. (Cl. 309—24)

1. In a piston ring, a circumferentially compressible corrugated member of generally circular outline comprising, successive generally U-shaped corrugations, successive corrugations having alternate successive open and closed ends at both the upper and lower sides of said member, and arms, one integral with each closed end of each corrugation extending therefrom axially and at the inner side of said member to opposite upper and lower sides thereof, terminating each



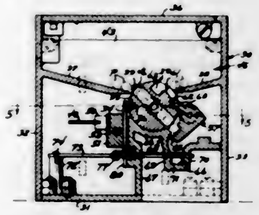
in a head bridging the open end of its associated corrugation, and providing a successive series of shoulders inwardly of the outer portions of said member, at both the upper and lower sides thereof, against which the inner curved edges of thin metallic rails are adapted to engage, the inner sides of said rails being adapted to bear against the closed ends of the corrugations.

2,664,329
TABLE WITH FOLDING LEGS
Reinhold M. Kraska, Altadena, Calif.
Application August 13, 1949, Serial No. 110,047
9 Claims. (Cl. 311—87)



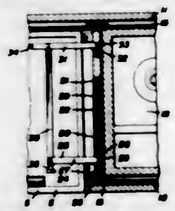
1. In a folding leg structure for a table: a leg formed of an integral piece of round material, the ends of the piece extending on a common axis at the upper part of the leg to form trunnions; and a bearing structure for each end, comprising a yoke in which said trunnions are rotatable, said yoke having ends contacting the lower surface of the table; and a separate strap urging said ends into contacting relation and overlying said yoke.

2,664,330
PENCIL VENDING MACHINE
Alfred Schupp, San Antonio, Tex.
Application April 19, 1950, Serial No. 156,757
5 Claims. (Cl. 312—75)



1. In a coin-controlled pencil vending machine, a hollow housing including spaced parallel vertically disposed end walls, spaced parallel vertically disposed side walls extending between said end walls, and a horizontally disposed bottom wall, a pair of spaced parallel vertically disposed end panels projecting upwardly from said bottom wall and interposed between said end walls, a pair of inclined plates extending inwardly from said side walls and coacting with said end panels to define a hopper for holding pencils, the inner ends of said plates being spaced from each other, a horizontally disposed roller extending between said end walls and rotatably supported thereby, a portion of said roller projecting through the space defined between said pair of plates, there being a longitudinally extending recess extending through said roller for communication with said hopper, said roller having a portion of its exterior cut away to define a shallow portion and a deep portion, a gate extending between said end walls and rotatably supported thereby, said gate including an elongated finger operatively connected with the shallow and deep portions in said roller, a body member arranged in said housing and including a vertically disposed portion projecting upwardly from said bottom wall, an arcuate top portion projecting from said vertically disposed portion for slidably engaging said roller, said body member being shaped to define a compartment for receiving pencils that pass from said hopper through the recess in said roller, past said gate, and coin controlled means for rotating said roller to deliver pencils into said compartment, said gate including an elongated lip mounted for movement into and out of bridging relation with respect to the recess in said roller, the arcuate top portion of said body member closing said recess when the roller has been rotated by the coin controlled means, said lip closing said recess in normal position before operation of said coin controlled means.

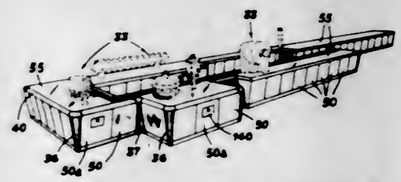
2,664,331
COMBINED DESK AND SAFE
Herman E. Glotfelter, Indianapolis, Ind.
Application March 17, 1952, Serial No. 277,019
1 Claim. (Cl. 312—194)



A flat top desk having a compartment at one side adapted to contain a safe, a sliding top on the desk providing a closure for the compartment and affording access to the safe, a pair of tracks mounted in the desk, rails carried by the top slidably carried by the tracks, a locking bolt engageable with each rail to secure the top against sliding movement, and a concealed manipulating member for the bolt, said manipulating member comprising a pair of arms each pivotally secured at one end to a corresponding bolt, one arm being pivotally secured at its other end to the desk, the other arm being pivotally secured at an intermediate portion to the desk, and a lever pivotally secured to an intermediate portion of said one arm and pivotally secured to the other end of said other arm.

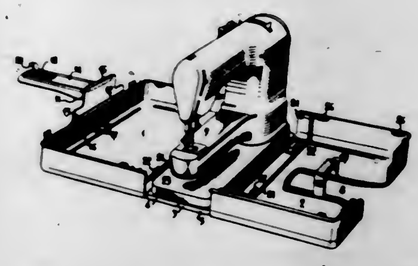
2,664,332
GUARD FOR INDUSTRIAL MACHINES
Wallace D. Herrick, Dayton, Ohio
Application July 28, 1951, Serial No. 239,159
10 Claims. (Cl. 312—210)

1. Apparatus of the character described for shielding a machine independently of structural connection with said machine, comprising a plurality of separate legs adapted to be secured to the floor outwardly of said machine with the lower ends thereof in spaced and unconnected relation, means including a railing secured to the upper ends of said legs and cooperating therewith to form a frame surrounding said machine in fixed outwardly spaced and unconnected relation thereto, a plurality of generally flat panels adapted to form sides for said shielding apparatus and each proportioned to fill the space between adjacent said legs, means on said railing and the lower ends of said legs for supporting said panels on



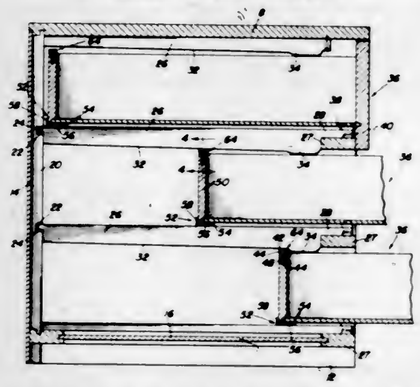
said frame in outwardly spaced relation with said machine to enclose the sides of said machine, said supporting means being releasable to provide for individual removal of said panels for access to said machine, curved panel members on said legs at the corners of said frame proportioned to abut adjacent said flat panels with the outer surface thereof forming a smooth connection between said adjacent panels avoiding sharp edges and projections, and decking supported by the upper part of said frame and extending inwardly from said railing to enclose from above the space between said panels and said machine.

2,664,333
CARRYING CASE FOR PORTABLE SEWING MACHINES
Carl Gaiser, Gehling, Turgi, Switzerland, assignor to Mefina S. A., Benningen, Switzerland, a corporation of Switzerland
Application November 7, 1951, Serial No. 255,240
Claims priority, application Switzerland January 22, 1951
16 Claims. (Cl. 312—241)



1. A carrying case for a portable sewing machine of the free arm type comprising two trays, each having a main side wall, a top wall and two end walls, a bottom wall for each tray, hinge means connecting one edge of each bottom wall to the corresponding main side wall, and hinge means connecting the other edge of each bottom wall of the two trays to each other to enable the bottom walls to be folded to lie bottom against bottom.

2,664,334
FULL FLOATING CUSHIONED DRAWER FOR CASE GOODS
Carl A. Bissman, Springfield, Mo.; Elizabeth Lois Bissman, executrix of said Carl A. Bissman, deceased
Application June 19, 1950, Serial No. 168,905
4 Claims. (Cl. 312—332)



1. A cabinet of the class described comprising complemental top, back and end walls defining a drawer compartment, a vertical center post fixed to the interior of the back wall, said post having a horizontal mortise with its ends opening through the vertical sides of said post, a horizontal slightly yieldable stringer secured to and suspended between the outer edge portions of said end walls, a horizontal guide rail having a scarf-joint at one end fitted adjustably into said mortise so that it may be shifted in a horizontal plane and properly set before it is permanently affixed to said post and a scarf-joint at its opposite end overlapping and fastened to the intermediate portion of said stringer, said guide rail being rectangular in cross-section and the underside thereof being tapered toward said post and having a depending boss in close proximity to said stringer, said boss being adapted to function as a drawer abutting and snubbing chock.

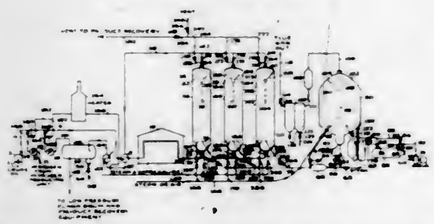
2,664,335
STYLUS FOR RECORDERS
George Gorham, New York, N. Y., assignor to Technicon Cardiograph Corporation, New York, N. Y., a corporation
Application January 11, 1950, Serial No. 137,915
8 Claims. (Cl. 346—139)



8. A stylus for making a record on heat-sensitive record material comprising an elongated unitary metallic blade having an intermediate shank, a flat recording tip formed at one end of the shank by a widthwise reduced end length of the blade and a blade mounting part formed at the other end of the shank to mount the blade for oscillation in its own plane, an electric heating coil surrounding said tip and spaced inwardly from the free end of the tip, electrically insulated leads extending from the ends of said coil longitudinally of said shank, and means to insulatingly secure said leads to said blade mounting part, said tip having a shoulder and said coil bearing against said shoulder.

CHEMICAL

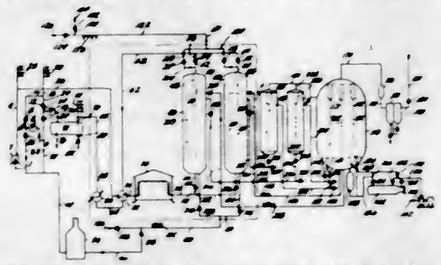
2,664,336
FLUIDIZED FIXED BED PROCESS
Paul W. Cornell, Mount Lebanon, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 25, 1950, Serial No. 181,431
3 Claims. (Cl. 23—1)



3. In a process for catalytically promoting a chemical reaction, wherein the heat of reaction ranges from approximately neutral to exothermic and in which the catalyst is reactivated by oxidation, the steps comprising maintaining powdered refractory catalyst in a state of turbulent suspension within a reaction chamber, contacting said catalyst with a stream of reactant vapor under conditions of elevated temperature and pressure, continuously withdrawing converted product while retaining substantially all of the catalyst within the reaction chamber, terminating the reaction cycle when the activity of the catalyst has been substantially reduced, depressuring the reaction chamber, removing the catalyst to a regenerating zone which contains an extra charge of powdered catalyst which is continuously undergoing oxidative regeneration while in a state of turbulent suspension at a substantially lower pressure than exists in the reactor, removing a mixture of regenerated and unregenerated catalyst from the regenerating zone, introducing this removed mixture into the reactor promptly after termination of removal of inactive catalyst from the reactor and while part of the inactive catalyst removed from the reactor is still undergoing regeneration, promptly repressuring the reaction chamber and again utilizing the regenerated catalyst to promote said approximately neutral to exothermic reaction.

2,664,337
FLUIDIZED FIXED BED PROCESS
Paul W. Cornell, Mount Lebanon, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 25, 1950, Serial No. 181,432
2 Claims. (Cl. 23—1)

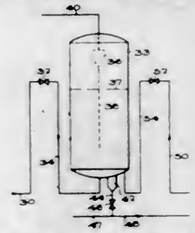
1. An approximately continuous process for contacting reactants which have an approximately neutral to exothermic heat balance with a fluidized catalyst, which includes carrying out the process under pressure in a plurality of reactors, intermittently terminating the reaction, treating the catalyst with hydrogen under pressure to partially remove carbonaceous material deposited thereon and regenerating the catalyst contained in each of the reactors in a single, continuously operated regenerator at a substantially lower pressure, said process comprising passing the reactants through a plurality of reactors at elevated temperature and pressure, each of which reactors contains a fluidized, fixed bed of catalyst, the beds of catalyst being of progressively decreasing activity, terminating said passage through the reactor containing the least active catalyst bed when the catalyst therein requires regeneration, passing hydrogen under pressure through the reactor in which the reaction has been terminated until a substantial amount of carbonaceous material has been removed from the catalyst, terminating the flow of hydrogen, depressuring the reactor, removing catalyst from the depressured reactor, converging this catalyst to a continuously operated regenerator which contains a fluidized bed of the catalyst which is undergoing oxidative regeneration at a substantially



lower pressure than exists in the reactors during the reaction period, removing active catalyst from the regenerator, conveying this active catalyst to the reactor from which the catalyst was removed, repressuring the reactor, again placing this repressured reactor on-stream and repeating the termination, hydrogen treatment, depressuring, catalyst removal, catalyst replacement and repressuring steps on each reactor in succession at such times as the catalyst therein becomes sufficiently inactive to require regeneration, the time of said termination of passage through a reactor and the number of reactors serviced by said regenerator being such that there is a substantially uniform flow of reactants through the reactors which are on-stream and a substantially uniform flow of hydrogen successively directed to successive reactors during the treatments with hydrogen under pressure after the on-stream reaction has been terminated and such as to provide, during the off-stream periods, a substantially uniform flow of catalyst to the regenerator.

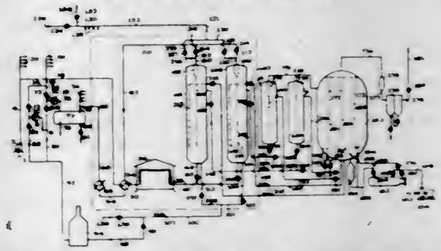
2,664,338
LINE AND VALVE SYSTEM FOR FLUIDIZED PARTICLE HANDLING
Paul W. Cornell, Mount Lebanon, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 25, 1950, Serial No. 181,433
4 Claims. (Cl. 23—1)

4. In a process wherein finely divided solid particles are caused to flow, from a source external to and at a lower level than a fluidized bed of finely divided solid particles, through a conduit which discharges into the lower portion of said fluidized bed of finely divided solid particles, wherein said flow through the conduit is periodically terminated by blocking off said conduit and wherein the pressure exerted by the fluidized bed of particles at the discharge end of the conduit exceeds the conduit pressure during termination of flow to the extent that a portion of said bed of particles is forced into said conduit, the improvement which comprises causing the finely divided solid particles to flow through a conduit from said external, lower level source, upwardly to a point



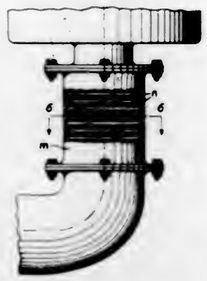
above the level of the fluidized bed of finely divided solid particles and thence downwardly into the fluidized bed of finely divided solid particles and terminating said flow by blocking off said conduit at said point above the level of the fluidized bed.

2,664,339
CATALYTIC PROCESS
Paul W. Cornell, Pittsburgh, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 17, 1951, Serial No. 206,426
5 Claims. (Cl. 23—1)



1. In a catalytic conversion having an approximately neutral to exothermic heat balance, the steps comprising passing a reactant through a reactor containing a fluidized catalyst bed at elevated temperature and pressure, maintaining a fluidized bed of catalyst in a separate regenerator at a substantially lower pressure than said elevated pressure, terminating the flow of reactant when the activity of the catalyst in the reactor is substantially reduced, depressuring the reactor, at least partially filling a hopper between the regenerator and reactor with a substantial amount of catalyst, said hopper, reactor and regenerator, each being connected to both of the others to form a three-vessel system through which catalyst may be moved from time to time and the aforesaid catalyst at least partially filling said hopper coming from the next preceding vessel in the system, emptying the reactor into the next following vessel in the system, completing the filling of the hopper with a reactor charge of catalyst, transferring a charge of active catalyst to the reactor from the next preceding vessel in the system, repressuring the reactor, and again passing reactant through the reactor and, during a substantial part of the time in which the flow of reactant is terminated, introducing deactivated catalyst into the regenerator from the next preceding vessel in the system and removing reactivated catalyst therefrom into the next following vessel in the system, such introduction and removal being at such rates as to maintain an approximately constant level of catalyst in the regenerator.

2,664,340
CATALYTIC APPARATUS AND METHOD FOR TREATING EXHAUST GASES
Eugene J. Houdry, Ardmore, Pa.
Application August 9, 1949, Serial No. 109,288
6 Claims. (Cl. 23—2)



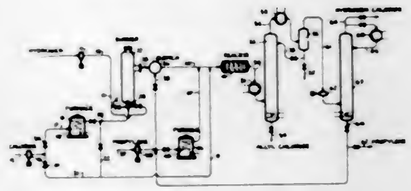
1. The combination with the exhaust of an internal combustion engine, of a catalyst chamber communicating therewith and with the atmosphere, and a multiplicity of groups of catalytic elements fixedly contained in said chamber, the groups being arranged in series, the elements of each group comprising a base of active alumina and dispersed thereon a finely divided metal catalyst, the group nearest the exhaust comprising a number of separate spaced-apart elements in which the finely divided metal catalyst is platinum, a succeeding group comprising a number of spaced-apart elements in which the finely divided metal catalyst is silver, and a group succeeding the last named group comprising a number of spaced-apart elements in which the finely divided metal catalyst is copper.

2,664,341
CONTINUOUS METHOD AND APPARATUS FOR THE PRODUCTION OF CHLORINE DIOXIDE
Edelbert E. Kesting, Munich, Germany
Application January 9, 1952, Serial No. 265,661
Claims priority, application Germany April 26, 1951
3 Claims. (Cl. 23—152)



1. The method of continuous production of chlorine dioxide by the reaction of a solution of a chlorate and an acid in an apparatus of the type comprising a series of vessels arranged at relatively descending levels and overflowing each into the vessel next beneath, including the steps of heating from an external source of heat only the lowermost vessel of said series, admitting an inert gas into said lowermost vessel, conducting said gas in counter-current flow direction relative to the direction of flow of said solution, through said solution in the individual vessels of said series, and removing said gas together with the chlorine dioxide produced in said series of vessels, from the uppermost vessel of said series, whereby the degree of heat will be relatively greater in the vessels having a low concentration of chlorine dioxide, than in the vessels having a higher concentration of chlorine dioxide.

2,664,342
HYDROGEN HALIDE PRODUCTION
Ava J. Johnson, Oakland, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware
Application November 20, 1950, Serial No. 196,676
8 Claims. (Cl. 23—154)



1. The process for the production of high purity hydrogen chloride which comprises reacting hydrogen with chlorine in a mol ratio of chlorine to hydrogen of at least 1.5 thereby forming a mixture of hydrogen chloride and chlorine substantially free of free hydrogen, adding propylene to said mixture in an amount at least equal to the stoichiometrical equivalent of chlorine in said mixture, subjecting the resulting mixture comprising hydrogen chloride, chlorine and propylene to selective propylene chloro-substituting conditions effecting the selective chlorination of propylene by allylic substitution with the formation of a reaction mixture consisting essentially of hydrogen chloride and chlorinated hydrocarbons comprising allyl chloride substantially free of free chlorine and free hydrogen, and fractionating high purity hydrogen chloride from said reaction mixture.

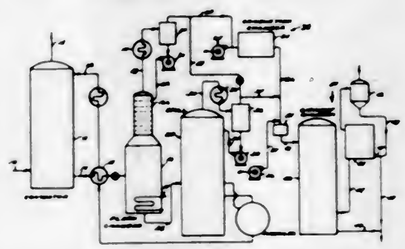
2,664,343
PROCESS FOR STABILIZING RED PHOSPHORUS AGAINST OXIDATION
Martin S. Silverstein, Camden, N. J.
No Drawing. Application January 27, 1944, Serial No. 519,949
3 Claims. (Cl. 23—223)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. Process for treating red phosphorus of commerce containing up to 700 parts of iron per million parts of red phosphorus so as to produce therefrom a red phosphorus-containing composition of increased resistance to oxidation, which comprises exposing said red phosphorus of commerce for a period of 2 to 20 days to a gaseous atmosphere containing oxygen at a temperature of 40° C. to 90° C. and a relative humidity of 50 to 100% thereby to form an acid composition, thereafter removing acid from the resulting phosphorus-containing composition and retaining the remainder as the red phosphorus product which is more resistant to oxidation than the red phosphorus of commerce employed as the starting material.

2,664,344
PROCESS FOR STABILIZING RED PHOSPHORUS AGAINST OXIDATION
George F. Nordblom, Philadelphia, Pa., and Martin S. Silverstein, Camden, N. J.
No Drawing. Application January 27, 1944, Serial No. 519,950
5 Claims. (Cl. 23—223)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. Process for treating red phosphorus of commerce containing up to 700 parts of iron per million parts of phosphorus so as to produce therefrom a red phosphorus-containing composition of increased resistance to oxidation, which comprises agitating the said red phosphorus of commerce with an aqueous solution of a strong acid for removing iron from the said red phosphorus of commerce, maintaining said solution agitating at substantially its boiling point for at least approximately 15 minutes, thereafter washing the resultant phosphorus-containing composition to remove the aqueous solution of acid therefrom, thereafter drying the said resulting phosphorus-containing composition, and retaining the remainder as the red phosphorus product which is more resistant to oxidation than the red phosphorus of commerce employed as the starting material.

2,664,345
MANUFACTURE OF SULFUR FROM H_2S-HYDROCARBON CONTAINING GASES
Arthur L. Kohl and Clyde L. Blohm, Los Angeles, Calif., assignors to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California
Application August 27, 1949, Serial No. 112,696
1 Claim. (Cl. 23—225)



In the manufacture of sulfur from a supply of gases containing hydrogen sulfide and hydrocarbons, the method that includes dissolving said hydrogen sulfide and hydrocarbons in an absorbent liquid, passing the resulting solution into a still, separating a mixture of hydrogen sulfide and hydrocarbons from the absorbent in advance of its entry into the still, using gases containing hydrogen sulfide separated from the solution in the still in forming a first stream, using said mixture of hydrogen sulfide and hydrocarbons separated in advance of the still to form a second stream containing a concentration of hydrocarbon gases substantially in excess of any hydrocarbon concentration in the first stream and the first stream being less combustible than said second stream, adding oxygen to said second stream and converting its hydrogen sulfide and hydrocarbon content by combustion to products including carbon dioxide, sulfur dioxide and water, combining said combustion products with said first stream, and then maintaining the combined gases under conditions effecting conversion of the sulfur dioxide and hydrogen sulfide to elemental sulfur.

2,664,346
FLUID REACTOR
Robert Louis Mayhew, Great Neck, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application June 22, 1950, Serial No. 169,700
7 Claims. (Cl. 23—288)



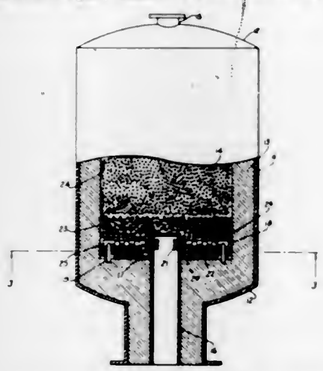
1. In a reactor comprising a vertically extending vessel, means for introducing a stream of reactant gas to the lower portion of said vessel, means for withdrawing the fluid products of reaction from the upper portion thereof and means for regulating the temperature within said vessel comprising a plurality of tube bundles disposed in said reactor and adapted to contain a temperature control fluid, each of said tube bundles comprising spaced upper and lower headers, a plurality of vertically extending tubes between said headers and a vertically extending conduit for said temperature control fluid extending from said upper header and connecting with the upper extremity of said reaction vessel as the support for suspending the tube bundle within said vessel, a feed pipe for the temperature control fluid connecting with said lower header, said feed pipe extending upwardly through said upper header and passing vertically and centrally through said conduit to a point beyond the upper extremity of said vessel.

6. In a reactor comprising a vertically extending vessel, means for introducing a stream of reactant gas to the lower portion of said vessel, means for withdrawing the fluid products of reaction from the upper portion thereof, and means for supporting a mass of fluid contact material within said vessel comprising an apertured gas distributing member extending across the vessel at the lower portion thereof, a draw-off receptacle mounted in said member and extending downwardly therefrom, a draw-off standpipe releasably connected to the lower portion of said vessel and having its upper extremity slidably engaged with the lower portion of said draw-off receptacle and thereby freely separable from said receptacle when the standpipe is released from said vessel.

2,664,347
CATALYST CHAMBER COLLECTOR SYSTEM
Alexander R. Rehrig, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 8, 1947, Serial No. 778,587
14 Claims. (Cl. 23—288)

1. A reaction chamber, adapted to contain particulate contact material, comprising in combina-

tion a closed outer shell enclosing a contact chamber therein; reactant material inlet means in the upper portion of said shell; effluent outlet means extending upwardly, centrally through the bottom of said shell a spaced distance into said contact chamber, said effluent outlet means being closed at its upper end at least enough to substantially prevent the passage of solid material therethrough; effluent collection means com-



prising a plurality of perforate conduit members radially extending outwardly through the walls of said effluent outlet means to points adjacent the periphery of said chamber, the inner end of at least one portion of each radially extending conduit being slidably supported by a support member; and support means in the bottom portion of said chamber supporting the outer end portions of said radially extending conduits.

2,664,348

HIGH PRESSURE AND TEMPERATURE REACTION CHAMBER

Charles F. Bonilla, New York, N. Y., assignor to Phillips Petroleum Company, a corporation of Delaware

Application August 5, 1949, Serial No. 108,735
6 Claims. (Cl. 23—290)



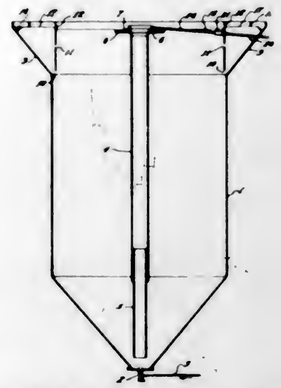
1. Apparatus for continuously reacting fluids at a greater temperature than atmospheric temperature and a greater pressure than atmospheric pressure comprising a reaction chamber made of material resistant to corrosion of said fluids at said temperature and pressure but incapable of resisting the stress of having said pressure as unbalanced internal pressure, at least one inlet conduit and one outlet conduit connected to said chamber, an indirect heat exchanger comprising a portion of each of said conduits in heat exchange relation with each other, said heat exchanger and said conduits between said heat exchanger and said chamber being made of the same material as said chamber, a housing surrounding said chamber and said heat exchanger, said housing being made of material resistant to internal pressure, said inlet conduit and said outlet conduit extending from said heat exchanger through said housing to the exterior thereof, said conduits adjacent and exterior of said housing being made of stress resistant material, means to continuously force fluids corrosive to the material of said housing at an elevated temperature under pressure into said inlet conduit exterior of said housing, means to continuously maintain a predetermined back pressure on fluid emerging through said outlet conduit, and means to continuously supply a fluid chemically inert to the materials of said chamber, said housing and said conduits, from atmospheric temperature to the temperature of said chamber, under pressure to said housing to balance the pressure in said chamber and thereby relieve said chamber from any stress due to internal pressure, the interior of said inlet and outlet conduits and said reaction chamber being disposed out of fluid communication with the space in said housing surrounding said chamber.

2,664,349

METHOD OF PRECIPITATING SOLID PARTICLES FROM A SUSPENSION OF THE PARTICLES IN A LIQUOR

André Sabié, Marseille, France, assignor to Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine, Paris, France, a corporation of France

Application July 25, 1949, Serial No. 106,653
Claims priority, application France August 7, 1948
4 Claims. (Cl. 23—301)



1. A method of precipitating solid particles from a suspension of the particles in a liquor, which comprises establishing a column of such a suspension-containing liquor in an open-top vessel, from which the particles are to be precipitated, and in which is contained a quantity of precipitated particles, providing a centrally located air lift extending from adjacent the bottom of the column to the top thereof, injecting air under pressure into the bottom of the air lift and withdrawing liquor containing precipitated particles from adjacent the bottom of the column and moving the said liquor upwardly through the air lift to the top of the column, overflowing the liquor moved upwardly through the air lift and directing the overflow outwardly in the vessel toward a decanting zone surrounding the upper portion of the said column of liquor, said decanting zone having a downwardly inclined lower surface sloping inwardly to the said column, said decanting zone being substantially isolated from the said column of liquor by means of a vertically disposed continuous annular baffle which circumscribes the air lift at substantially the perimeter of the said column and is perforated only at three different horizontal levels—one level above the level of the overflowed liquor adjacent the air lift, a second level at the bottom of said decanting zone, and a third level intermediate the said first and second levels, introducing the said overflowed liquor into the decanting zone through the intermediate level of perforations in the baffle, and withdrawing a relatively clear liquor as overflow from the periphery of the upper surface of the liquor in the decanting zone, by concurrently precipitating particles from the liquor in the decanting zone and returning the precipitated particles to the said column through the lowermost level of perforation in the baffle and returning liquor containing relatively fine precipitated particles surrounded by air bubbles to the said column of liquor through the uppermost level of perforations in the baffle, the level of the said uppermost level of perforations in the baffle and the level of the overflow periphery of the decanting zone being the same and chosen relative to the level of the overflowed liquor adjacent the air lift so as to provide for a relatively clear overflow from the periphery of the decanting zone.

2,664,350

SEED GERMINATION

William J. Hale and Phelps Vegelsang, Midland, Mich., assignors, by mesne assignments, to Verdurin Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application March 20, 1945, Serial No. 583,844
4 Claims. (Cl. 71—1)

1. A method of improving the growth of seeds, roots and bulbs which comprises, applying to the surface of the seeds, roots and bulbs an adherent but slowly water soluble plastic mass which contains an inert filler and a water soluble metallo-porphyrin complex homogeneously distributed therethrough.

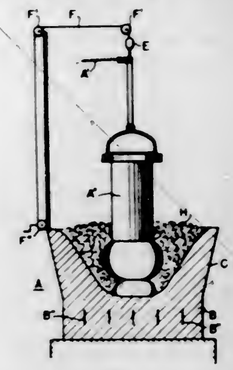
2,664,351

MANUFACTURE OF MANGANESE

Paul Ferdinand Fabaron, Mercus Garrabet, France, assignor to Societe pour l'Exploitation de Procedes de Fabrication de Produits Electro-Chimiques et Electro-Metallurgiques Industriels, Paris, France, a French Societe a responsabilite limitee

Application January 3, 1950, Serial No. 136,487
Claims priority, application France January 10, 1949
2 Claims. (Cl. 75—10)

1. The method of simultaneously manufacturing metallic manganese and mixed calcium and magnesium carbides in a single resistance furnace which comprises the steps of charging the furnace with a mixture of approximately 36 parts by weight of coal and 100 parts by weight of a complex carbonate consisting of calcium carbonate, magnesium carbonate and manganous carbonate in the relative percentage proportions of about 60 percent, 20 percent and 20 percent, respectively, heating the mixture of said materials in said furnace and maintaining the density of the electric current through the mixed materials below about 4 amperes per square centimeter of electrode surface area, so as to deposit molten manganese on the sole of the furnace with a supernatant layer of slag including lime, mag-



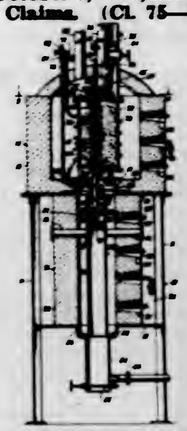
nesia and calcium carbides, and separately withdrawing the manganese and carbides.

2,664,352

PROCESS AND APPARATUS FOR REDUCING FERROUS CHLORIDE IN LIQUID FORM TO ELEMENTAL IRON

Frederic M. Darner, Shaker Heights, and Clarence C. Walters, Willoughby, Ohio, assignors, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

Application October 3, 1950, Serial No. 188,128
14 Claims. (Cl. 75—34)



1. The process of reducing ferrous chloride to metallic iron, comprising the steps of introducing molten ferrous chloride through a nozzle into a reaction chamber defined by walls, by breaking up said molten ferrous chloride into small droplets after it has emerged from the nozzle, and projecting said droplets into said chamber, introducing gaseous hydrogen into said chamber separately from said ferrous chloride, and simultaneously introducing into said chamber an annular stream of neutral gas in a manner such that said annular stream surrounds the ferrous chloride as it emerges from said nozzle, so as to prevent premature initial contact between said gaseous hydrogen and said ferrous chloride until the latter has been broken up into droplets and has passed away from said nozzle and until said droplets are dispersed in the atmosphere of said chamber spaced from the walls thereof.

2,664,353

MASTER ALLOY COMPRISING ZIRCONIUM AND MAGNESIUM FOR USE IN MAKING MAGNESIUM-BASE ALLOYS CONTAINING ZIRCONIUM

William P. Saunders and Frederick P. Strieter, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 8, 1951, Serial No. 260,776
6 Claims. (Cl. 75—135)

1. The method of making a master alloy comprising more or less equal amounts of magnesium and zirconium for alloying with magnesium to make magnesium-base alloys containing zirconium and at least 80 per cent of magnesium which comprises reacting a saline flux mixture comprising alkali metal chloride and zirconium tetrachloride with an excess of magnesium at a temperature between 1300° and 1450° C. so as to reduce the zirconium tetrachloride to metallic zirconium and produce magnesium chloride as a by-product, said metallic zirconium becoming entrained in the said excess of magnesium as a master alloy, withdrawing at least a portion of the so-produced master alloy and mixing it with a saline washing flux comprising an alkali metal chloride selected from the group consisting of sodium chloride and potassium chloride at a temperature at which both the said washing flux and master alloy are molten so as to release the entrained magnesium chloride from the master alloy and absorb the released magnesium chloride in the said washing flux, and separating the so-treated master alloy from the resulting flux mixture.

2,664,354

VALVES FOR INTERNAL COMBUSTION ENGINES

Clarence George Bieber and Walter Franklin Sumpter, Huntington, W. Va., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 12, 1950, Serial No. 189,894
4 Claims. (Cl. 75—171)

1. A hollow-headed internal combustion engine valve subjected in use at elevated temperatures to the destructive action of fluctuating atmospheres of combusted lead-containing fuels under oxidizing, neutral and reducing conditions, said hollow-headed valve being comprised of an age-hardened, silicon-containing, nickel-base alloy possession corrosion resistance to the lead oxide test and consisting essentially of about 15% to 17% chromium, about 2.85% to 3.35% titanium, about 2% to 2.5% manganese, about 0.005% to 0.10% silicon, up to about 0.08% carbon, about 3% to 8% iron, and the balance essentially nickel, said alloy being devoid of aluminum.

2,664,355

Ti-Mn-Fe ALLOYS

Charles M. Craighead, Columbus, Ohio, assignor, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio, a corporation of Delaware

No Drawing. Application October 6, 1950, Serial No. 188,892
2 Claims. (Cl. 75—177)

1. An alloy consisting essentially of from 1.0% to 5.0% manganese, from 1.0% to 2.0% iron, and the balance titanium, characterized by a tensile strength of at least about 25% in excess of the tensile strength of unalloyed titanium, measured in the as-hot-rolled (at 1450° F.) condition.

2,664,356

PROCESS FOR TREATING FRUIT WASTE

James Russell McCaughna, San Jose, Calif.

No Drawing. Application July 14, 1951, Serial No. 236,849
27 Claims. (Cl. 99—2)

1. A method for treating fruit waste and the like containing sliming constituents, comprising: forming the fruit waste into a pulp; combining with such pulp a minor proportion of ammonium hydroxide and thoroughly distributing the ammonium hydroxide to yield a pH value of about 8.5 to 9.5; and, following incorporation of said ammonium hydroxide, introducing into such ammoniated fruit pulp a minor proportion of an alkaline divalent-metal compound sufficient to destroy sliminess in said pulp in conjunction with said ammonium hydroxide and liberate the liquid from the solid constituents.

2,664,357

SALT COMPOSITION

Frank G. Miller, Denville, N. J., assignor, by mesne assignments, to Diamond Crystal Salt Co., St. Clair, Mich., a corporation of Michigan

No Drawing. Application July 28, 1950, Serial No. 176,517
5 Claims. (Cl. 99—143)

1. A table salt composition of improved flowability and non-caking qualities comprising a mixture of shaker salt, a precipitated silicate powder selected from the group consisting of precipitated magnesium silicate and precipitated calcium silicate, and an edible water-insoluble soap powder.

2,664,358

CANNING WHOLE FOOD ARTICLES

Edwin H. Eichler, Dundee, Ill.

Application January 26, 1951, Serial No. 207,991
5 Claims. (Cl. 99—187)



1. A product of manufacture comprising a dressed fowl body of irregular shape, a sealed rigid merchandising container housing said fowl body, an edible liquid in the container surrounding said fowl body and a perforated envelope of shrinkable material tightly fitted on said fowl body so as to prevent it from breaking into parts in said liquid and allowing contact through the envelope perforations of said liquid with said fowl body.

2,664,359

GLASS COMPOSITION

David P. Dingledy, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

No Drawing. Application June 1, 1951, Serial No. 229,530
13 Claims. (Cl. 106—50)

4. A glass fiber comprising substantially by weight:

	Percent
SiO_2	40 to 60
Al_2O_3	4 to 18
CaO	15 to 22
MgO	4 to 12
Na_2O	10 to 15
B_2O_3	Up to 6
TiO_2	0.5 to 6

wherein the sum of the silica and alumina contents is within the range 50 to 65 per cent, and the sum of the lime and magnesia contents is within the range 20 to 30 per cent.

2,664,360

MANUFACTURE OF CELLULOSE

Frank R. Charles and Julian A. Dixon, Hawkesbury, Ontario, Canada, assignors to Canadian International Paper Company, Montreal, Quebec, Canada, a corporation of Quebec, Canada

No Drawing. Application August 20, 1951, Serial No. 242,798
6 Claims. (Cl. 106—123)

6. In the manufacture of regenerated cellulose products by the viscose process, the step of incorporating into viscose ethenoxy N-monoethanolamides of refined tall oil wherein the number of ethylene oxide units is from 4 to 50 per amide molecule, said refined tall oil before condensation consisting approximately of 33% abietic acid, 5% unsaponifiable materials and the balance of fatty acids, generally unsaturated of 18 carbon atoms, said amides being added in an amount from 0.01% to 0.2% based on the weight of the cellulose content of the viscose.

2,664,361

METHOD AND APPARATUS FOR APPLYING ELECTRON EMISSION MATERIAL

William P. Zabel, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application December 22, 1948, Serial No. 66,642
12 Claims. (Cl. 117—7)



1. The method of applying electron emission material to a closely wound coiled-coil filamentary cathode which comprises stretching the filament linearly by pulling apart its ends to widely separate the secondary turns thereof, immersing the filament in a liquid suspension of the emission material which substantially fills the turns of the filament, removing the supply of emission material while the filament is still stretched to such an extent that the material drains out from between the secondary turns, and then causing the filament to contract to approximately its original length, before the suspension of emission material has completely dried and hardened.

2,664,362

BITUMINOUS PRODUCT SURFACED WITH MINERAL GRANULES AND PROCESS OF MAKING SAME

Morton C. Higgs, Whittier, Calif., and George Hartwright, Chicago, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application March 3, 1948, Serial No. 12,888
19 Claims. (Cl. 117—27)

3. A bituminous sheet product having mineral granules partially embedded in and adhered to one surface thereof, said mineral granules having a surface film of baked tall oil thereon.

8. In a process of preparing a granule-coated asphalt sheet involving the steps of embedding mineral granules in a heat-softened asphalt surface and thereafter cooling the resulting surface whereby to harden the asphalt, the improvement of applying to said mineral granules a baked coating of tall oil prior to the embedding step.

2,664,363

METHOD OF DEPOSITING COPPER

Max Meth, Atlantic City, N. J.

No Drawing. Application March 16, 1953, Serial No. 342,705
3 Claims. (Cl. 117—35)

1. The method of producing a copper plated silvered mirror including the steps of mounting a transparent plate on a supporting rack, chemically depositing a silver reflective coating from a silver depositing solution on said plate while in its mounted position, and then while the silver reflecting surface is still wet and the plate in place on the rack simultaneously intermingling and spraying onto said surface a copper sulfate solution and a substantially homogeneous fluid suspension of finely divided zinc dust to thereby deposit a copper protective layer.

2,664,364

PROCESS FOR DRYING COATED RESISTORS

Melvin A. Thom, Brighton, N. Y.

Application February 15, 1949, Serial No. 76,548
3 Claims. (Cl. 117—101)



1. The method of coating a wire-wound resistor which comprises supporting the resistor by supporting means extending beyond the ends of the resistor and disposed axially of the resistor, applying a flowable insulating coating to the resistor and rotating the resistor about an axis which extends at right angles to the axis of the resistor and which intersects the axis of the resistor in its center while drying the resistor.

2,664,365

METHOD FOR PRINTING PIGMENT COLORS ON GLASS FABRICS

Fred G. La Piana, North Eastham, Mass., and George N. Houth, Cranston, R. I., assignors to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application May 19, 1950, Serial No. 163,092

4 Claims. (Cl. 117—126)

1. A method of applying a pigment color to a glass fabric which comprises applying to the material a printing paste containing a pigment color, a pigment binder comprising from about 10% to about 50% by weight of an aqueous dispersion containing from a few to about 60% by weight of a resin selected from the group consisting of vinyl chloride polymers, vinylidene chloride polymers and vinyl-vinylidene chloride copolymers, said resin being in solid, dispersed form, from about 5% to about 40% by weight of an unvulcanized latex comprising a synthetic rubbery polymer of a butadiene hydrocarbon and containing from about 30% to 70% by weight of solids, and a water-soluble thermosetting urea-formaldehyde containing resin in an amount from about 5% to about 25% by weight; and from about 50 to 85% by weight of a dilute aqueous solution of a water-soluble alginate, the concentration of alginate in said dilute aqueous solution being of the order of about 2%; drying the printed material, and after-treating said printed and dried material with an aqueous solution of a water-soluble metal compound selected from the group consisting of chromic acid, chromic acetate and aluminum subacetate.

2,664,366

PLASTICIZED SPONGE MATERIAL AND METHOD OF MAKING SAME

Christopher Lumley Wilson, Columbus, Ohio

No Drawing. Application September 19, 1949, Serial No. 116,642

7 Claims. (Cl. 117—138.8)

1. The method of making a soft, resilient sponge material having interconnected pores by reacting polyvinyl alcohol and formaldehyde, which comprises: providing an aqueous solution of formaldehyde, polyvinyl alcohol containing less than 10% residual hydrolyzable material in the molecule, an acid catalyst in which the acid functional group is inorganic and having a dissociation constant of at least 10^{-2} and a froth-stabilizing wetting agent soluble in and substantially stable to said solution; forming a substantially stable and homogeneous froth with said solution stabilized with the wetting agent; reacting the polyvinyl alcohol and formaldehyde in the solution thereby causing gellation and solidification of the froth with the production of interconnected pores simultaneously with the progression of the reaction, the froth being formed prior to appreciable reaction between the polyvinyl alcohol and the formaldehyde; stopping said reaction when approximately 35–80% of the hydroxyl groups of the polyvinyl alcohol have been reacted with the formaldehyde; whereby a sponge material is formed impregnating said sponge with an aqueous solution of a polyhydric alcohol and then removing excess of said solution until there remains deposited on said sponge about 20–100% of said polyhydric alcohol based on the dry weight of the sponge.

2,664,367

PLASTICIZED SPONGE MATERIAL AND METHOD OF MAKING SAME

Christopher Lumley Wilson, Columbus, Ohio

No Drawing. Application September 19, 1949, Serial No. 116,643

7 Claims. (Cl. 117—138.8)

1. The method of making a soft, resilient sponge material having interconnected pores by reacting polyvinyl alcohol and formaldehyde, which comprises: providing an aqueous solution of formaldehyde, polyvinyl alcohol containing less than 10% residual hydrolyzable material in the molecule, an acid catalyst in which the acid functional group is inorganic and having a dissociation constant of at least 10^{-2} and a froth-stabilizing wetting agent soluble in and substantially stable to said solution; forming a substantially stable and homogeneous froth with said solution stabilized with the wetting agent; reacting the polyvinyl alcohol and formaldehyde in the solution thereby causing gellation and solidification of the froth with the production of interconnected pores simultaneously with the progression of the reaction, the froth being formed prior to appreciable reaction between the polyvinyl alcohol and the formaldehyde; stopping said reaction when approximately 35–80% of the hydroxyl groups of the polyvinyl alcohol have been reacted with the formaldehyde; whereby a sponge material is formed impregnating said sponge with a liquid including a member of the class consisting of substantially anhydrous polyethylene glycols and polyalkanolamines heated to a temperature of up to about 100° C. and aqueous solutions of said amines, and removing excess of said liquid until there remains deposited on said sponge about 20–100% of said liquid based on the dry weight of the sponge.

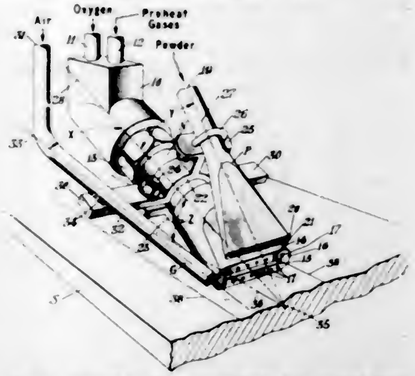
2,664,368

EXTERNAL POWDER FEED SCARFING PROCESS AND APPARATUS

Roger S. Babcock, Plainfield, and Edward M. Holub, Elizabeth, N. J., assignors to Union Carbide and Carbon Corporation, a corporation of New York

Application June 6, 1951, Serial No. 230,137

2 Claims. (Cl. 148—9.5)



2. In a process for scarfing an oxidation resistant metal body by the application of a wide ribbonlike oxygen stream obliquely against the work surface assisted by preheat flames and by a ribbonlike stream of adjuvant powder material of approximately the same width as the oxygen stream, said powder stream being fed at an acute dihedral angle to the oxygen stream through the preheat flame onto the oxygen stream which

then projects the powder toward the work surface at the leading portion of the reaction zone thereon, and the advance of such composite stream relatively along the work surface in the general direction of the stream thereon, the combination therewith of the step of directing at an acute angle and substantially in the plane of said oxygen stream an auxiliary stream of a diluting gas such as air into at least one side edge of the composite stream to eliminate the undesired cutting action of such side edge of the composite stream, in which the angle between the auxiliary stream and scarfing stream directions of flow is between 5 and 30 degrees and said auxiliary stream meets the scarfing stream prior to impingement of the scarfing stream upon the work surface.

2,664,369

METHOD OF SOFTENING LOW-CARBON MEDIUM-ALLOY STEEL

John M. Kiefer, Jr., Bedford, Ohio, assignor to United States Steel Corporation, a corporation of New Jersey

No Drawing. Application August 6, 1951, Serial No. 240,613

1 Claim. (Cl. 148—21.5)

A method of softening low-carbon medium-alloy steel containing less than .20% carbon and from 3 to 10% of at least one of the alloying elements, chromium, nickel, molybdenum and manganese, which includes heating the steel to a temperature just above its Ae_1 temperature to produce just enough austenite to dissolve therein about all its carbides while the remainder of its structure remains untransformed and relatively stable as ferrite; holding at such temperature for a sufficient time to dissolve substantially all of the carbides in said austenite, and then quenching the steel at a rate wherein the austenite with the dissolved carbides will transform to a hard constituent composed of a hardened metastable form of stressed ferrite and carbides, whereupon the cool steel is mainly unhardened due to its being composed principally of ferrite which overbalances the minor amount of the hard constituent.

2,664,370

SOLDERING FLUX

Chester A. Snell, New York, and Jacob M. Fain and John A. De Rosa, Brooklyn, N. Y., assignors to the United States of America as represented by the Secretary of the Army

No Drawing. Application December 20, 1951, Serial No. 262,651

3 Claims. (Cl. 148—23)

3. A soldering flux consisting essentially of about 10% to 12% by weight of a boron trifluoride addition product of an amine selected from the group consisting of diphenyl amine, diphenyl guanidine and phenyl diethanol amine, 3.5% to 8% by weight of tetrachloro-naphthalene, 55% to 75% by weight of a resin selected from the group consisting of rosin, hydrogenated rosins, rosin modified maleic ester resins and abietic acid, and 10% to 30% by weight of a glycol ether.

2,664,371

SOLDERING FLUX

Chester A. Snell, New York, and Jacob M. Fain and John A. De Rosa, Brooklyn, N. Y., assignors to the United States of America as represented by the Secretary of the Army

No Drawing. Application December 20, 1951, Serial No. 262,652

2 Claims. (Cl. 148—23)

2. A soldering flux consisting of 2 to 5% by weight of boron trifluoride etherate, about 11% by weight of ethyl dimethyl cetyl ammonium bromide, 25 to 30% by weight of a glycol ether and the remainder being a resin selected from the group consisting of rosin and abietic acid.

2,664,372

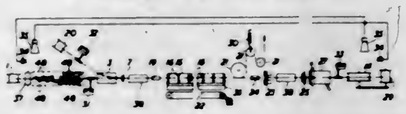
ELECTRIC CABLE

Philip Massey Hollingsworth, Sidcup, Kent, England, assignor to Johnson and Phillips Limited, London, England, a British company

Application December 23, 1947, Serial No. 793,508

Claims priority, application Great Britain July 14, 1947

4 Claims. (Cl. 154—2.26)



1. A method of assembling an electric cable core in a metallic sheathing, which comprises providing an electric cable core, a metal tube of larger diameter than the assembled sheathing and a tow line one end of which has magnetic properties, inserting said end of the tow line in the forward end portion of the metal tube, retaining said end of the tow line against longitudinal movement by creating a magnetic field in the metal tube adjacent said end of the tow line to magnetically hold said end in the magnetic field, while the tow line end is so retained, imparting longitudinal movement to the metal tube relative to and in a direction from the fixed end of the tow line along the said tow line to telescope the metal tube over the tow line, attaching the electric cable core to one end of the tow line, and drawing the electric cable core into the full length of the metal tube by the tow line.

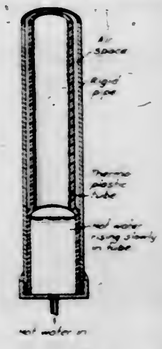
2,664,373

METHOD OF LINING RIGID PIPE WITH ELASTIC THERMOPLASTICS

John H. Reilly, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application October 25, 1950, Serial No. 192,139

3 Claims. (Cl. 154—82)



1. The method of lining rigid pipe which comprises providing a tube of elastic thermoplastic material having an outside diameter about 5 to 15 per cent less than the inside diameter of the pipe to be lined, coating at least one of the intended contacting surfaces of the rigid pipe and plastic liner with a solution of an initially thermoplastic adhesive, drying the adhesive to a nontacky condition, wrapping the plastic tube with a

fabric sheet disposed with its lateral edges overlapped longitudinally of the tube, inserting the so-wrapped tube in the rigid pipe, withdrawing the fabric sheet, raising one end of the resulting assembly higher than the other, filling the tube gradually from its lower end with a hot liquid which is inert to the plastic tube, at a temperature sufficient to render the tube plastic and flowable, thereby distending the tube to fit the pipe progressively from its lower end, and activating the adhesive, and, after the upper outside end of the pipe has become at least warm to the touch, draining the hot liquid from the lined pipe.

2,664,374

PROCESS FOR FABRICATING STRANDS, CORDS, TUBES, AND THE LIKE

Games Slayter and Ed Fletcher, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Application September 14, 1951, Serial No. 246,686
17 Claims. (Cl. 154—91)



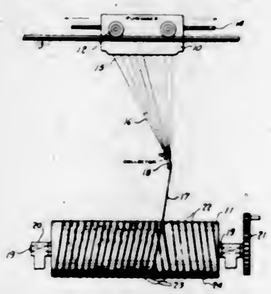
1. A process for the fabrication of a strand, cord, rod or the like, that comprises moving a narrow strip of sheet material longitudinally and simultaneously progressively rolling said strip on itself transversely to its direction of movement.

2,664,375

METHOD FOR PRODUCING AN OPEN MESH FABRIC OF GLASS FIBERS

Games Slayter, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Original application March 6, 1947, Serial No. 732,671. Divided and this application June 9, 1949, Serial No. 98,002
2 Claims. (Cl. 154—93)



1. The method of producing an open mesh fabric of glass fibers which comprises forming and gathering multiple glass fibers into an endless strand, helically winding multiple layers of the strand about a housing with the strands in one layer being angularly disposed with respect to the strands in the adjacent layers, removing the layers from the housing in a body, said layers being cut along a line crosswise of the housing in order to effect such removal, stretching the body in one or more planar directions simultaneously to enlarge the body while decreasing its wall thickness as a result of the relative adjustment between strands in each layer and the angular adjustment of strands in adjacent layers as well as the relative movement of the fibers in the strands, and then facing said body while the body is in a uniplanar position with one or more layers of a glass fabric having the fibers therein extending in parallel relation and generally in a direction which is angular with respect to the fibers in the body.

2,664,376

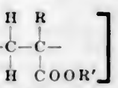
MINERAL FIBER MAT AND PROCESS OF MAKING SAME

Thomas E. Philipps, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Application July 19, 1951, Serial No. 237,618
12 Claims. (Cl. 154—101)



1. As an article of manufacture, a mineral fibrous mat carrying a susbtantially uniform continuous film on the surface of the individual fibers, said film comprising a fused thermoplastic acrylic resin having a molecular weight of the molding powder grade and a substantial amount of gelatin incorporated therein, said acrylic resin having the following monomeric structure:



wherein R is a radical selected from the class consisting of hydrogen and methyl, and R' is an alkyl radical selected from the class consisting of methyl, ethyl, propyl, isopropyl, butyl, and isobutyl.

2,664,377

METHOD OF IMPREGNATING AND LAMINATING FIBROUS MATERIALS WITH LIGNIN

William G. Van Beckum and Arnulf K. Esterer, Longview, Wash., assignors to Weyerhaeuser Timber Company, Longview, Wash., a corporation of Washington

No Drawing. Application April 24, 1950, Serial No. 157,846
5 Claims. (Cl. 154—132)

4. The method of preparing a fibrous laminated product which consists essentially of preparing an aqueous solution of the ammonium salts of lignin acids, subjecting the separate fibrous laminae to the wetting action of said solution, evaporating the water of solution leaving the ammonium salt of lignin acid intimately dispersed in situ in said fibrous material, assembling said laminae in superimposed relation, and applying heat to decompose the ammonium salt of lignin into volatile ammonia and water insoluble lignin free acid, and applying pressure to cause the fibrous laminae to bond together.

2,664,378

MANUFACTURE OF ARTICLES FROM POLYETHYLENE FILMS

George W. Heller, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 29, 1950, Serial No. 165,119
4 Claims. (Cl. 154—139)

1. A process for adhesively bonding polyethylene films together which comprises applying pressure to the film surfaces having an intervening layer of a composition comprising a volatile normally liquid organic solvent of the class consisting of dialkyl ethers, alkyl esters of alkanoic acids and dialkyl ketones, having a boiling point below 150° C., a rubber dispersed in the said solvent in the form of discrete solid particles, a rubber dissolved in the said solvent and a tackifier of the class consisting of wood rosin, diethylene glycol esters of polymerized wood rosin, polycyclic aromatic hydrocarbons having molecular weights within the range of 500 to 2000, maleic anhydride-modified ester gums, coumarone-indene resins, hydrogenated wood rosin, and glycerol esters of polymerized wood rosin, and thereafter removing the said solvent by diffusion through the said polyethylene films and by evaporation.

2,664,379

BENTONITE SULFUR

Vincent J. Russo and John F. Les Veaux, Middleport, N. Y., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware

No Drawing. Application May 16, 1950, Serial No. 162,390
2 Claims. (Cl. 167—20)

1. The method of making an improved bentonite sulphur which comprises heating bentonite and sulphur at a temperature above the melting point of sulphur and below about 160° C., placing the fusion mixture in a humid atmosphere at a temperature below 100° C. until the product possesses at least 3% moisture and repeating the procedure until more than 45% of the total sulphur has been changed to the colloidal condition.

2,664,380

WATER-DISPERSIBLE PHENOTHIAZINE PREPARATION

Donald E. Vierling, Pittsburgh, Pa., assignor to Atomic Basic Chemicals Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application November 2, 1949, Serial No. 125,167
4 Claims. (Cl. 167—53)

1. A dry, powdered free-flowing composition of matter capable of being dispersed in water to yield a stable fluid suspension, said preparation being composed essentially of powdered phenothiazine and a substantially uniform dissemination therewith of a small amount of a phosphatide which has been hydroxylated sufficiently to reduce its iodine value at least 5%.

2,664,381

PARASITICIDAL LOTION

Allen L. Omohundro, Wilton, and Franz M. Neumeier, Fairfield, Conn., assignors to McKesson & Robbins, Incorporated, Bridgeport, Conn., a corporation of Maryland

No Drawing. Application June 2, 1953, Serial No. 359,228
4 Claims. (Cl. 167—58)

1. A parasiticidal lotion for body parasites containing pyrethrum extract, sesamin extract, apiol, dinitroanisole, benzyl alcohol, oleic acid as an intermiscible solvent for said ingredients, water and a mono-iso-octyl-phenyl-polyoxyethylene-glycol-ether having the formula

$$C_8H_{17}—C_6H_4—O—(CH_2—CH_2—O)_n—CH_2CH_2OH$$

as an emulsifying agent to form a clear, stable, homogeneous lotion.

2,664,382

PARASITICIDAL LOTIONS

Allen L. Omohundro, Wilton, and Franz M. Neumeier, Fairfield, Conn., assignors to McKesson & Robbins, Incorporated, Bridgeport, Conn., a corporation of Maryland

No Drawing. Application September 18, 1947, Serial No. 774,894
2 Claims. (Cl. 167—58)

1. A parasiticidal lotion for body parasites containing pyrethrum extract, sesamin extract, apiol, dinitroanisole, benzyl alcohol, an intermiscible solvent for said ingredients, water and emulsifying agents to form a clear, stable, homogeneous lotion, said intermiscible solvent being oleic acid and said emulsifying agents including a sulfonated oil and dioctyl sulfosuccinate.

2,664,383

COLOR-STABLE TOILET WATERS AND PERFUMES

Arthur Lawrence Fox, Short Hills, and Robert James Mehaffey, River Edge, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application November 13, 1950, Serial No. 195,492
2 Claims. (Cl. 167—90)

1. A colored liquid cosmetic preparation comprising a major proportion of an alcohol-perfume oil mixture having a small amount of a normally light-sensitive dye incorporated therein, and from about 0.005% to 0.25% by weight to stabilize the color of said mixture, of benzoyl resorcinol.

2,664,384

PROPANE FRACTIONATION OF REDUCED CRUDE OIL

Bruce C. Benedict, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 23, 1948, Serial No. 66,992
4 Claims. (Cl. 196—14.46)



1. In the propane fractionation of lubricating oil constituents from low asphalt-content reduced crude lubricating oil stocks and the simultaneous propane fractionation of said lubricating oil con-

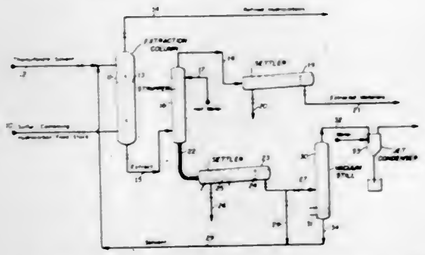
stituents wherein solid to semisolid asphaltic material precipitates upon initial contact with the propane under liquid propane fractionation conditions and adheres to and plugs the fractionating apparatus in the region adjacent and below the raw feed entry point, a process for continuously carrying out this fractionation operation without precipitating said solid to semi-solid asphaltic material and plugging said apparatus with the precipitated asphalt comprising maintaining a body of an oil-rich phase in the lower portion of an elongated and vertically disposed contacting zone, introducing liquid propane into said body of oil-rich phase at a point near the bottom of said zone, maintaining a body of oil dissolved in liquid propane in said zone above and in contact with the first mentioned body of oil-rich phase with a liquid-liquid interface therebetween at a level near the midpoint, vertically, of said zone, introducing said reduced crude lubricating oil stock into said first mentioned body of oil-rich phase at a point below said interface but above the point of introduction of said liquid propane, maintaining substantially the same constant temperature at the oil feed point and throughout said body of oil-rich phase, maintaining said body of oil dissolved in liquid propane under conditions causing propane fractionation of the lubricating oil constituents by maintaining a temperature gradient from the bottom to the top of said body of oil dissolved in liquid propane by the addition of heat to said top of said body of oil dissolved in liquid propane with the bottom being substantially at the temperature of said oil-rich phase and the top being at a higher temperature and at a pressure sufficiently high to maintain the propane in the liquid phase under the aforesaid temperature conditions, removing an oil-in-propane solution from the upper portion of said body of oil dissolved in liquid propane and removing oil-rich phase comprising the asphalt, a residual lubricating oil fraction and some dissolved propane from the lower portion of said first mentioned body of oil-rich phase.

2,664,385

EXTRACTION OF SULFUR COMPOUNDS WITH THIOLSULFONIC ESTERS

William F. Wolff, Park Forest, Ill., and Carl E. Johnson, Griffith, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application August 30, 1951, Serial No. 244,374
16 Claims. (Cl. 196—31)



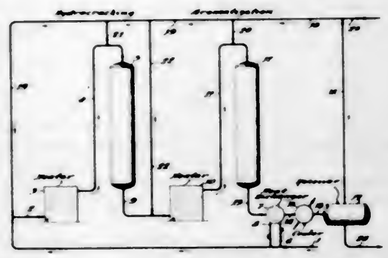
1. A process for the extraction of an organic sulfur compound from a mixture thereof with hydrocarbons, which process comprises contacting said mixture with an ester of a thiolsulfonic acid containing 2 to 20 carbon atoms per molecule and separating a raffinate phase from an extract phase comprising said ester and said organic sulfur compound.

2,664,386

TWO-STAGE PROCESS FOR THE CATALYTIC REFORMING OF GASOLINE

Vladimir Haensel, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application May 12, 1949, Serial No. 92,866
3 Claims. (Cl. 196—50)



1. A process for reforming gasoline which comprises subjecting said gasoline to conversion at a temperature of from about 600° to about 1000° F., a pressure of from about 500 to about 1200 pounds per square inch, a weight hourly space velocity of from about 0.2 to about 5 and a hydrogen to hydrocarbon ratio of from about 2 to about 10 mols of hydrogen per mol of hydrocarbon in the presence of a catalyst comprising alumina, platinum in an amount of from about 0.01% to about 1% by weight and a halogen combined therewith in an amount of from about 0.1% to about 8% by weight, and thereafter subjecting said gasoline to conversion at a higher temperature in the range of from about 800 to about 1100° F., a lower pressure in the range of from about 50 to about 700 pounds per square inch, a higher weight hourly space velocity in the range of from about 2 to about 20 and a hydrogen to hydrocarbon ratio of from about 1 to about 6 mols per mol of hydrocarbon in the presence of a catalyst comprising alumina and from about 0.01% to about 1% by weight of platinum.

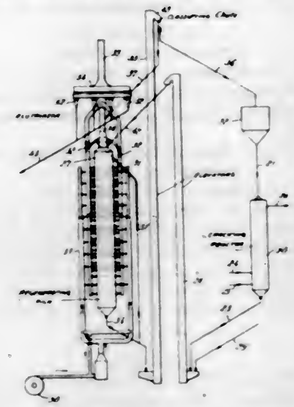
2,664,387

PROCESS AND APPARATUS FOR CATALYST CLASSIFICATION IN A MOVING BED CATALYST CONVERSION PROCESS FOR HYDROCARBONS

Leroy F. Strader, Long Beach, Calif., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application May 22, 1945, Serial No. 595,148
2 Claims. (Cl. 196—52)

1. In a hydrocarbon conversion process wherein particle form contact mass material is passed cyclically through a hydrocarbon conversion zone and a contact material regeneration zone through which zones it moves as a substantially compact column of solid particles, the method for removing fines resulting from attrition of the cyclically flowing contact material which method comprises the steps of passing the cyclically moving stream of contact material downwardly along an inclined, elongated chute so as to cause a concentration of the fines along the underside of said stream, withdrawing contact material containing some of the largest sized particles along with said concentration of fines from the bottom of said chute at a location near its lower end at a rate amounting to only a minor fraction of the total rate of contact material flow through said chute, effecting the separation of fines from said withdrawn contact material and returning contact material containing said largest sized particles substantially freed of



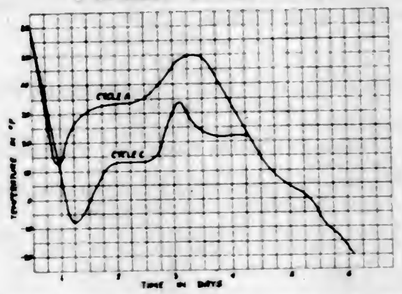
fines to the cyclically moving stream of contact material while excluding the return of said separated fines.

2,664,388

HYDROCARBON FUEL OIL OF LOWERED POUR POINT

James S. Winterhalter, Plymouth, Mich., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application September 19, 1951, Serial No. 247,248
5 Claims. (Cl. 196—150)



1. A hydrocarbon fuel oil containing between about 0.05 per cent and about 7 per cent, by weight, of a residual stock obtained from crude petroleum produced in the Smackover field, which stock has the following properties:

A. P. I. gravity	15.0–16.0.
Saybolt Universal Viscosity at 210° F	150–225 sec.
Flash point	255–365° F.
Carbon number (Conradson)	4.0–5.0.

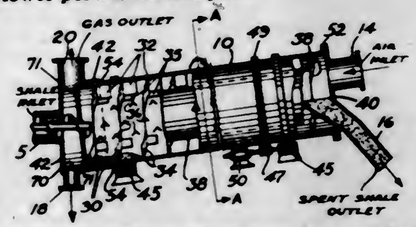
2,664,389

PROCESS AND APPARATUS FOR THE DISTILLATION OF SOLIDS

Walter A. Rex, Westfield, and Herbert H. Vickers, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application April 1, 1949, Serial No. 84,778
10 Claims. (Cl. 202—6)

1. The process of distilling carbonaceous solids with gases which comprises passing subdivided solids upwardly over an extended, inclined, confined space defining a path, in a tumbling highly agitated motion while lifting and cascading said solids through said space on their passage over said path so as to establish an overall upward motion of said solids on said path while continuously returning portions of said cascading solids to a point on said path below the point from which they have been lifted, passing a hot gas downwardly over said path countercurrently to said solids and in direct heat exchange therewith, said gas being introduced at a relatively high temperature in the uppermost portion of said path and withdrawn from the lowermost portion of said path at a relatively low temperature, said solids being introduced in the lowermost portion of said path at a relatively low temperature and withdrawn from the uppermost portion of said path at a relatively high temperature, the temperature of said gas and solids decreasing continuously from said uppermost to said lowermost portion, maintaining said high gas temperature conducive to the volatilization of volatilizable constituents of said solids, maintaining said low gas and solids temperatures conducive to the condensation of said volatilized constituents, and withdrawing liquid product from the lower portion of said path.



5. A rotary retort comprising in combination an inclined cylindrical elongated shell rotatably supported and closed at its lower and upper ends, means for feeding subdivided solids into said lower end, means for removing subdivided solids from said upper end, a continuous spiral screw blade attached with its outer spiral edge to the walls of and arranged within said shell and having a free inner edge so as to form a screw-like member extending substantially over the entire length of said shell and having a plurality of parallel helical sectional walls, said sectional walls being arranged substantially perpendicularly with respect to the longitudinal axis of said shell, said free inner spiral edge defining a free cylindrical space co-axial with said cylindrical shell, a plurality of blades attached to said sectional walls in a position substantially perpendicular to said sectional walls, each of said blades being substantially parallel with the axis of said shell and forming an acute angle with the plane tangent to said shell along the line of intersection between each of said blades and said shell, said blades extending longitudinally across a portion only of the distance between two of said sectional walls, and extending laterally from said shell to said free inner edge means for supplying a gas to said upper end, means for withdrawing a gas from said lower end, means for rotating said shell, and means in said lower end for withdrawing liquid, each of said sectional walls being provided with at least one opening adjacent to said shell permitting the passage of liquid.

2,664,390

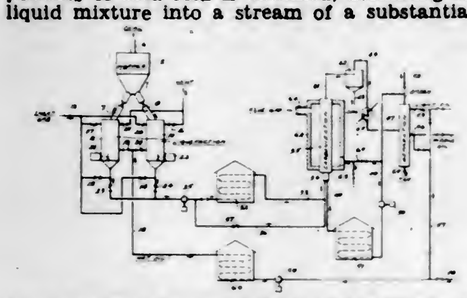
CARBONIZATION OF COAL

Ernest F. Pevere, Beacon, George B. Arnold, Glenham, and Howard V. Hess, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application November 19, 1948, Serial No. 61,013
3 Claims. (Cl. 202—11)

1. A process for the carbonization of a fusible coal containing volatilizable constituents with

the production of dry solid powdered coke and recovery of said volatilizable constituents which comprises contacting said coal in particle form with a normally liquid hydrocarbon solvent for coal substance, agitating said coal particles with said solvent at a temperature above the temperature at which said coal is rendered plastic and within the range of from about 550 to about 700° F whereby said coal becomes miscible with said oil solvent and a substantially homogeneous liquid mixture containing all of the original components of said coal is obtained, atomizing said liquid mixture into a stream of a substantially



inert gas thereby suspending said atomized liquid therein, passing the suspension upwardly through an externally heated carbonization zone maintained at a temperature of from about 900 to about 1,300° F., maintaining said atomized liquid in suspension in said carbonization zone for a period of time sufficient to effect substantially complete volatilization of said hydrocarbon solvent and volatilizable constituents of said coal and form dry solid particles of coke suspended in vaporous product of volatilization, and subsequently separating said solid particles of coke from volatilized products.

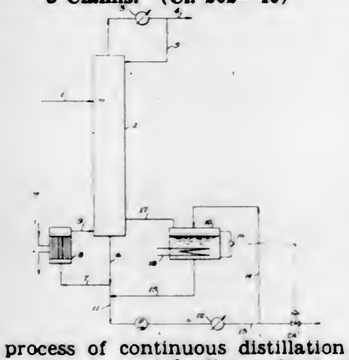
2,664,391

CONTINUOUS DISTILLATION OF HEAT SENSITIVE COMPOUNDS

Kenneth E. Coulter, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application March 28, 1952, Serial No. 279,097

3 Claims. (Cl. 202—40)



1. A process of continuous distillation which comprises the steps of feeding a heat-sensitive distillable material to a distillation column, heating said distillable material to form a vapor phase, separating said vapor phase from the liquid phase, withdrawing the liquid from the bottom of said column, reheating part of said withdrawn liquid in a reboiler to cause vaporization of a portion thereof and returning the vapor to said column, holding part of said withdrawn liquid in a vessel in free communication with, and at a level approximately the same as the normal level of liquid in said reboiler and maintaining the liquid in said vessel at a temperature lower than the temperature of the liquid in the reboiler.

2,664,392

NICKEL PLATING

Newell F. Blackburn, Fort Belvoir, Va., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application November 23, 1949, Serial No. 129,177

9 Claims. (Cl. 204—49)

1. A method for electro-depositing bright ductile deposits of nickel which comprises electrolyzing an aqueous solution of nickel fluoborate having small quantities of sulfurized quinoidine and benzoic sulfimide therein sufficient to produce bright nickel deposits from said solution.

2,664,393

ELECTROLYTIC REFINING OF LEAD

Frank C. Mathers, Bloomington, Ind., and Grover B. Lantz, Midvale, Utah, assignors to United States Smelting Refining and Mining Company, Portland, Maine, a corporation of Maine

No Drawing. Application May 16, 1951, Serial No. 226,738

4 Claims. (Cl. 204—114)

1. In the electrolytic process of depositing lead in an aqueous electrolyte containing lead fluosilicate the step which comprises the addition to the electrolyte for each ton of lead deposited of from 0.5 to 5.0 lbs. of goulac and from 0.6 to 0.06 lb. of material selected from the group consisting of water-soluble portions of aloes and electrolyte-soluble portions of aloes.

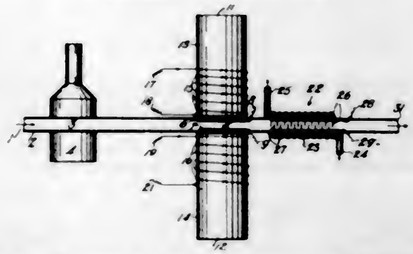
2,664,394

ELECTROCHEMICAL CONVERSION OF HYDROCARBONS

William Byron Reeves, Wood River, Ill., assignor to Phillips Petroleum Company, a corporation of Delaware

Application November 26, 1948, Serial No. 62,214

3 Claims. (Cl. 204—155)



1. The method of converting a hydrocarbon gas composed essentially of propane, and including residual amounts of paraffins of higher and lower molecular weight, to isoparaffins of higher molecular weight than propane, which comprises heating said propane in gaseous phase to a temperature in the range of about 400° F. to about 2000° F., passing said heated propane gas through a zone subjected to a superimposed high potential electrostatic field and an oscillating electromagnetic field of a frequency in the range between 40 and 300 cycles per second, cooling the gaseous material so treated and withdrawing a mixture having an increased content of hydrocarbons of a higher molecular weight than the original propane.

2,664,395

DIALYZER

John Felix Marchand, New York, N. Y.

Application August 24, 1949, Serial No. 112,037

5 Claims. (Cl. 210—8.5)



2. Tubular dialysis apparatus for removing diffusible materials from a mixture or solution comprising a freely expansible and flexible sac unit defining an expansible passageway adapted to convey a dialyzable fluid therethrough, said unit including a permeable member enclosing fluid spreading expansible and contractible grid means having a series of alternately disposed marginal openings adapted to permit the dialyzable fluid to swirl through the passageway and help dispose of solutes contained therein, another freely expansible and flexible unit enclosing said first unit adapted to conduct a washing fluid therethrough to carry away solutes permeating the first named unit, inlet means in connection with the first unit for the passage of dialyzable fluid into said first unit, outlet means connected to said first unit for the resultant dialyzed fluid, and inlet and outlet means in connection with the unit containing the washing fluid, said sac unit being adapted to expand and contract in volume when fluids flow therethrough.

2,664,396

ION EXCHANGE TREATMENT OF SOLUTIONS CONTAINING CYANOHYDRINS

Frank R. Riley, New York, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 31, 1950, Serial No. 193,311

5 Claims. (Cl. 210—24)

1. A process which comprises passing an aqueous solution containing a cyanohydrin of the group consisting of aldehyde cyanohydrins and ketone cyanohydrins through, and in contact with, a bed of a strongly basic anion exchange resin containing quaternary ammonium groups, said resin being activated by treatment with an aqueous solution of an alkali metal hydroxide, whereby said cyanohydrin is decomposed to its component parts, carbonyl compound and hydrocyanic acid, and substantially all hydrocyanic acid is removed from said solution.

2,664,397

ION-EXCHANGE RESINS FROM CARBOXYALKYL CELLULOSE ETHERS

William M. Hutchinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application September 16, 1947, Serial No. 774,423

7 Claims. (Cl. 210—24)

3. The method of removing cations from water containing said cations comprising contacting said water with a substantially insoluble cation exchange resin selected from the group of substantially insoluble cation exchange resins consisting of the free acid and alkali metal salts of the reaction product of a carboxyalkyl cellulose selected from the group of carboxyalkyl celluloses in which the alkyl radical of the carboxyalkyl group contains 1 to 3 carbon atoms and an acylating agent selected from the group of acylating agents consisting of acid anhydrides and acid halides containing the group —COR'' in which R'' represents an alkyl radical selected from the group of alkyl radicals containing from 1 to 3 carbon atoms per radical, and removing the contacted water from said reaction product.

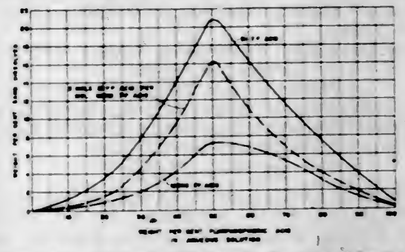
2,664,398

ACIDIZING WELLS

Donald C. Bond, Crystal Lake, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application December 2, 1952, Serial No. 323,603

16 Claims. (Cl. 252—8.55)



1. In the recovery of fluids from subterranean reservoirs, the method of reducing the resistance to the flow of said fluids through siliceous deposits encountered in the development and exploitation of fluid producing reservoirs which comprises contacting said deposits with an aqueous solution of a fluophosphoric acid, said solution having a sufficient concentration of fluophosphoric acid and being present in an amount sufficient to reduce the fluid flow resistance of said formations.

2,664,399

COATING AND LUBRICATING COMPOSITION

Arnold F. Kluender, Chicago Heights, Ill., assignor to Mor-Film Company, a corporation of Illinois

No Drawing. Application August 25, 1949, Serial No. 112,416

16 Claims. (Cl. 252—18)

1. A new composition of matter adapted to be dispersed in water and used to coat metal stock so as to form upon drying thereon an adherent protective film having rustproofing properties and which serves as a surface lubricant in working the metal stock, and consisting essentially of 20 to 30 parts by weight of a soap material selected from the group consisting of water-soluble medium titre soap having a titre value of from 22 to 30 and the alkali and free fatty acid soap-

forming constituents of said soap, 34 to 40 parts by weight of $Na_2B_4O_7$ calculated on an anhydrous basis, and approximately 2 to 5 parts by weight of at least one member selected from the group consisting of trisodium phosphate, sodium nitrite and soda ash.

2,664,400

REACTION PRODUCTS OF AN OCTYL ACID PYROPHOSPHATE AND SOYAMINE AND LUBRICANTS CONTAINING THE SAME

Willard H. Woodstock, Crete, and Thomas M. Beck, Homewood, Ill., assignors to Victor Chemical Works, a corporation of Illinois

No Drawing. Application August 13, 1949, Serial No. 110,236

5 Claims. (Cl. 252—32.5)

4. A lubricant for ferrous metals comprising a hydrocarbon oil and a rust-inhibiting quantity of an oil-soluble reaction product prepared by reacting a dioctyl acid ester of pyrophosphoric acid with 1 to 2.5 moles, per atom of phosphorus in the ester, of an amine composition containing at least 70% of unsaturated aliphatic primary amines each having at least 18 carbon atoms in the molecule until the reaction is substantially completed, the reaction being carried out at a temperature below that at which substantial decomposition of the reaction product occurs.

2,664,401

ALKALINE EARTH PHOSPHATE PHOSPHORS OF THE APATITE TYPE

Alfred Hamilton McKeag and Peter Whitten Ranby, North Wembley, England, assignors to General Electric Company, a corporation of New York

No Drawing. Application April 1, 1949, Serial No. 85,037

7 Claims. (Cl. 252—301.4)

1. A luminescent composition having a matrix of apatite type crystalline structure of the group consisting of $3M_3(PO_4)_2 \cdot M(OH)_2$ and

$$3M_3(PO_4)_2 \cdot MO$$

wherein M is an alkaline earth metal, and an activator of the group consisting of one of the metals copper, antimony, tin and thallium and mixtures of one of said metals with manganese in proportions, by weight of the composition, of about 0.1% copper, 1–3% antimony, 2–10% tin, 1% thallium and 1–5% manganese.

3. The method of manufacturing a luminescent material which comprises the step of heating to a temperature in the range of about 900–1200° C., in an atmosphere comprising steam, a mixture of an activator of the group consisting of one of the metals copper, antimony, tin and thallium and mixtures of one of said metals with manganese in proportions by weight of the composition of about 0.1% copper, 1–3% antimony, 2–10% tin, 1% thallium and 1–5% manganese, together with material selected from the group consisting of an alkaline earth halophosphate compound having the apatite type of crystal structure and starting materials consisting only of a salt of an alkaline earth metal and a phosphate compound other than a halophosphate, in proportions to produce, during the heating, a compound of the group consisting of alkaline earth hydroxy-phosphates and oxy-phosphates having the apatite type of crystal structure and corresponding to the formulae

$$3M_3(PO_4)_2 \cdot M(OH)_2$$

and $3M_3(PO_4)_2 \cdot MO$ wherein M is an alkaline earth metal, and continuing the heating until said material has chemically reacted with the steam to form an apatite type luminescent composition of the group consisting of alkaline earth hydroxy-phosphates and oxy-phosphates.

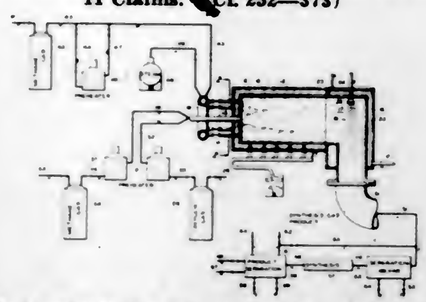
2,664,402

PROTECTION OF REFRACTORIES IN A REACTION SYSTEM FROM HIGH TEMPERATURES BY BLANKETING GASES

John S. Cromeans, Dewey, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application March 29, 1949, Serial No. 84,124

11 Claims. (Cl. 252—373)



8. A process for the production of synthesis gas, comprising introducing a hydrocarbon gas and oxygen in proportions for exothermically reacting with each other to form synthesis gas, into the central portion of an elongated reaction chamber in a direction of longitudinal flow, and exothermically reacting said hydrocarbon and oxygen therein to form said synthesis gas; cooling the walls of said chamber to a temperature lower than that of said exothermic reaction by introducing a hydrocarbon gas together with an oxidizing gas of an endothermically reacting type into said chamber adjacent the walls thereof and intermediate said walls and said exothermically reacting gases in said central portion in relative proportions and amounts to absorb up to the maximum amount of heat from said exothermic reaction that can be tolerated so as to react and endothermically form synthesis gas while still maintaining the over-all synthesis gas-forming reaction in said chamber exothermic, and recovering as product of the process, from said chamber, synthesis gas constituted of product of said endothermic and exothermic reactions.

2,664,403

METHOD OF PREPARING HEMATIN STANDARDIZED REAGENT

Theodore E. Weichselbaum, Normandy, Mo., assignor to A. S. Aloe Company, St. Louis, Mo., a corporation of Missouri

Continuation of application Serial No. 778,691, October 8, 1947. This application June 25, 1951, Serial No. 233,465

2 Claims. (Cl. 252—408)

1. The method of making a hematin standardized reagent for use in colorimetry and in checking the accuracy of spectrophotometric calibration tables which method comprises placing an accurately measured quantity of hematin in a measured quantity of borate buffer solution to provide a liquid reagent of predetermined concentration, placing an accurately measured quantity of the so-formed liquid reagent within an enclosable container, freezing the liquid reagent within the enclosable container, subjecting the frozen material to a high vacuum system for complete desiccation of the reagent to provide a solid standardized reagent, then closing the container, opening the container at the time of preparation

of the standard, and depositing the entire contents of the container into an accurately measured and predetermined quantity of a borate buffer solution in order to reconstitute the liquid reagent in its original strength.

2,664,404

REGENERATION OF SELECTIVE HYDROGENATION CATALYST

Leo J. Blatz and Richard C. Brandon, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 18, 1949, Serial No. 111,074

3 Claims. (Cl. 252—419)

2. The method of reactivating a pelleted catalytic material containing 0.1 to 10% by weight of finely-divided platinum on alumina used for hydrogenating a petroleum product containing sulfur, which comprises burning deactivating deposits from the catalytic material by contact with an oxygen-containing gas at temperatures ranging from 700° F. to 1100° F., controlling the burning by maintaining the oxygen content of the oxygen-containing gas at from about 2–6% during the major part of the regeneration so that the platinum does not become oxidized by combustion of said deposits during the said combustion, thereafter increasing the oxygen content of the regeneration gas under such conditions that the platinum remains at a temperature of not over 1100° F., whereby the catalyst is rendered suitable for reuse in the productive phase without necessitating a reduction step.

2,664,405

IMPROVED SILICACEOUS INSULATING MATERIAL

Gordon W. Andersen and John M. Diehl, Madison, Wis., assignors to Bjorksten Research Laboratories, Inc., a corporation of Illinois

No Drawing. Application October 13, 1950, Serial No. 190,054

11 Claims. (Cl. 260—2.5)

3. The compositions of matter comprising the reaction products of aqueous sodium silicate, aluminum powder and alkyl silicate in the following proportions:

	Percent
Sodium silicate solution	80 to 98
Aluminum powder	2 to 10
Alkyl silicate	0.1 to 4

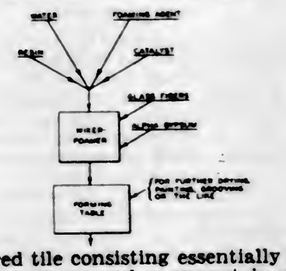
2,664,406

FISSURED TILE COMPOSED OF GLASS FIBERS, GYPSUM CEMENT, AND AMINE-ALDEHYDE RESIN, AND METHOD OF MAKING SAME

Marshall C. Armstrong, Hebron, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Application December 9, 1950, Serial No. 200,077

9 Claims. (Cl. 260—2.5)



1. Fissured tile consisting essentially of a mixture of glass fibers and a cement in which the fibers are present in amounts ranging from 20–60 percent by weight and in which the cement is formulated of a foamed amino-aldehyde resin solution in water and alpha gypsum cement present in the ratio of 1 part by weight resin to 4–8 parts by weight alpha gypsum.

2,664,407

METHOD OF PRESERVING A RUBBER WHICH COMPRISES TREATING THE RUBBER WITH A SOLID RESINOUS ARALKYLATED DIHYDROQUINOLINE ANTIOXIDANT

Joseph R. Ingram, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 24, 1948, Serial No. 61,911

3 Claims. (Cl. 260—4)

1. The method of preserving a rubber which comprises treating the rubber with a solid resinous aralkylated dihydroquinoline antioxidant composition obtained by heating in the presence of one mole of a catalyst from the group consisting of aluminum chloride and zinc chloride one mole of 2,2,4-trimethyl-1,2-dihydroquinoline and substantially one mole of a reagent selected from the group consisting of phenyl substituted methyl chlorides, substituted solely by phenyl groups, indanyl chloride and vinyl substituted aromatic compounds of the benzene and naphthalene series containing at least one but not more than two $CH_2{=}CH{-}$ groups as the sole olefinic constituents.

2,664,408

UREA AND/OR THIOUREA-ALDEHYDE-SULFITE WASTE LIQUOR CONDENSATION PRODUCT

Ralph E. Plump, Pittsfield, Mass., and James W. Carroll, Lafayette Hill, Pa., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application February 11, 1950, Serial No. 143,822

3 Claims. (Cl. 260—17.5)

1. A new composition of matter comprising the condensation product resulting from an acidified reaction mixture of sulfite pulp waste liquor, water-soluble aldehyde, urea and thiourea in which reaction mixture 0.1 to 5 mols of aldehyde are present per mol of combined urea and thiourea and said sulfite pulp waste liquor contains no more than 1 gram of sulfite pulp waste liquor solids per gram of combined urea and thiourea.

2,664,409

TEXTILE TREATING COMPOSITION AND METHOD

Robert Geoffrey Aickin, London, and Alick R. Munden, Pontypool, England, assignors to British Nylon Spinners Limited, Pontypool, England, a British company, and Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application October 9, 1950, Serial No. 189,284

Claims priority, application Great Britain October 13, 1949

3 Claims. (Cl. 260—23)

1. A composition of matter suitable for the simultaneous sizing and oiling of textile filaments comprising an aqueous emulsion of about 3 to 17% of mineral oil in admixture with from about 3 to 12% of a water-soluble hydroxylated polyvinyl resin, from about 0.05 to 5% of anionic detergent, from about 0.15 to 4.8% of boric acid, and from about 0.1 to 5% of the partial ester of a polyhydric alcohol with a fatty acid containing more than 8 carbon atoms in the molecule, said

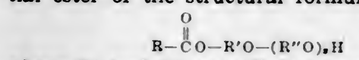
partial ester being present in amount not exceeding 30% of the mineral oil present and said composition having a pH within the range of 4.0 to 6.5.

2,664,410
PLASTICIZED HALOGEN-CONTAINING RESINS

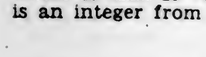
Joseph R. Darby, Richmond Heights, and Louis E. Wells, Jr., Webster Groves, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 1, 1951, Serial No. 249,214
14 Claims. (Cl. 260—23)

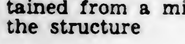
9. A composition comprising a halogenated vinylidene polymer and a preformed mixed partial ester of the structural formula



where R' and R'' are alkylene groups, where x is an integer from 0 to 5, inclusive, and where



represents the mixture of acyloxy groups obtained from a mixture of acids represented by the structure



by removal of the hydrogen atoms of the carboxyl groups of the mixture of acids, 20% to 80% by weight of said mixture of acids being resin acid and the balance being aliphatic fatty acids containing from 8 to 18 carbon atoms, inclusive, said preformed mixed partial ester being prepared by reacting said mixture of resin acid and aliphatic acid with an esterifying agent capable of introducing the $—R'O—(R''O)_xH$ grouping.

2,664,411
FLAME-RESISTANT COMPOSITIONS COMPRISING A TRANSPARENT RESIN, CHLORINATED PARAFFIN WAX, AND TRIPHENYL STIBINE

Robert S. Cooper, Park Forest, Ill., assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application July 21, 1951, Serial No. 238,015
5 Claims. (Cl. 260—28.5)

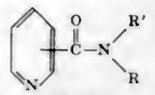
1. An organic, resinous, transparent, flame-resistant composition consisting essentially of 50–75 parts of a transparent, organic, high polymeric, plastic material, and 50–25 parts of a combination of chlorinated paraffin wax containing from 35–75% of chemically combined chlorine and triphenyl stibine, said chlorinated paraffin wax and said triphenyl stibine being present in said composition in respect of each other in the ratio of 1 part of chlorinated paraffin wax to 0.5–2 parts of triphenyl stibine.

2,664,412
COPOLYMERS OF ACRYLONITRILE AND NICOTINAMIDES

George E. Ham and Alfred B. Craig, Decatur, Ala., assignors to The Chemstrand Corporation, Decatur, Ala., a corporation of Delaware

No Drawing. Application September 29, 1952, Serial No. 312,177
9 Claims. (Cl. 260—32.6)

1. A fiber-forming composition containing in polymeric form a plurality of olefinic monomers, of which by weight of the total monomeric content acrylonitrile is at least 80%, and of which at least 2% is a compound having the general formula



wherein R is an alkenyl radical selected from the group consisting of allyl, methallyl and ethallyl, and R' is selected from the group consisting of hydrogen and alkyl groups having from one to 5 carbon atoms.

2,664,413
PREVENTING PREMATURE POLYMERIZATION OF RESINIFIABLE MIXTURES WITH OXALIC ACID

Earl E. Parker, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application June 20, 1951, Serial No. 234,671
11 Claims. (Cl. 260—45.4)

3. A copolymerizable mixture of a liquid ethylenic compound containing the group $>C=CH_2$ and a polyester of a dihydric alcohol and an alpha-beta ethylenically unsaturated dicarboxylic acid, said polyester being compatible with the ethylenic compound, said composition containing a peroxide catalyst of copolymerization in catalytic amount and a small polymerization inhibiting amount of free oxalic acid.

2,664,414
MONOMERS AND POLYMERS OF UNSATURATED THIOETHERS

Rupert C. Morris, Berkeley, and George W. Conklin, Oakland, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application March 8, 1952, Serial No. 275,674
12 Claims. (Cl. 260—78.5)

7. A copolymer of 3,6-dithia-1,7-octadiene with another polymerizable organic compound having an aliphatic group of two carbon atoms which are connected together by an olefinic linkage capable of undergoing addition polymerization.

2,664,415
POLYMERIZATION OF BUTADIENE-1,3 COMPOUNDS

James S. Sweely, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

No Drawing. Application November 4, 1950, Serial No. 194,193
8 Claims. (Cl. 260—83.7)

1. The process which comprises polymerizing, at a temperature below about 32° F., a butadiene-1,3 compound in aqueous emulsion in the presence of potassium soaps of petroleum naphthenic acids.

2,664,416
VINYL HALIDE POLYMERIZATION WITH CYCLIC CATALYST

Harold F. Park, East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 19, 1949, Serial No. 128,481
3 Claims. (Cl. 260—92.8)

1. A mass polymerization process which comprises polymerizing a vinyl halide at 100–400° C. and at a pressure of 25–500 atmospheres in contact with from 0.01 to 1.0 part of cyclic succinyl peroxide per 100 parts of vinyl halide.

2,664,417
N-SUBSTITUTED STREPTOMYCYLAMINES

Walter A. Winsten, Forest Hills, N. Y., assignor to Food Research Laboratories, Inc., Long Island City, N. Y., a corporation of New York

No Drawing. Application August 9, 1948, Serial No. 43,349
6 Claims. (Cl. 260—210)

1. As new compounds, derivatives of streptomycin having the formula $S—CH_2NHR'$ wherein S represents the entire molecular structure of streptomycin except the aldehydic radical thereof, and R' represents a radical selected from the group consisting of phenyl, benzyl and, aliphatic hydrocarbon having at least six carbon atoms.

2,664,418
PROCESS FOR PRODUCTION OF STREPTOMYCYLAMINES

Walter A. Winsten, Forest Hills, N. Y., assignor to Food Research Laboratories, Inc., Long Island City, N. Y., a corporation of New York

No Drawing. Application May 26, 1950, Serial No. 164,597
3 Claims. (Cl. 260—210)

1. Method of preparing compounds of the formula $Strep—CH_2—NHR$ wherein "strep" designates the entire molecular structure of streptomycin except the aldehydic radical thereof, and R designates an aliphatic hydrocarbon radical of from 7 to 16 carbon atoms, which comprises mixing a methanolic solution of streptomycin trihydrochloride calcium chloride double salt with a primary aliphatic amine, having from 7 to 16 carbon atoms, and subjecting said mixture to hydrogenation at a temperature of about 80°–85° C. with hydrogen under a pressure of about 1000 p. s. i. in the presence of a hydrogenation catalyst.

2,664,419
PURIFICATION OF ANTIBIOTICS

William A. Lott, Maplewood, Jack Bernstein, New Brunswick, and Leon J. Heuser, Robbinsville, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md., a corporation of Virginia

No Drawing. Original application August 9, 1947, Serial No. 767,851. Divided and this application December 8, 1950, Serial No. 199,921
15 Claims. (Cl. 260—210)

1. The method which comprises intimately contacting an aqueous solution of an antibiotic of the group consisting of streptomycin, dihydrostreptomycin, and streptothricin with a substantially water-immiscible organic solvent for soaps and a water-solubie member of the group consisting of sulfonates of higher fatty acid esters, sulfonates of higher fatty acid amides, sulfonates of petroleum hydrocarbons, polyalkyl-aryl sulfonates, and sulfonated castor oil.

2,664,420
PURIFICATION OF ANTIBIOTICS

William A. Lott, Maplewood, Jack Bernstein, New Brunswick, and Leon J. Heuser, Robbinsville, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md., a corporation of Virginia

No Drawing. Original application August 9, 1947, Serial No. 767,852. Divided and this application December 8, 1950, Serial No. 199,922
8 Claims. (Cl. 260—210)

1. The method which comprises interacting an antibiotic of the group consisting of streptomycin, dihydrostreptomycin, and streptothricin with a water-soluble member of the group consisting of sulfonates of higher fatty acid esters, sulfonates of higher fatty acid amides, sulfonates of petroleum hydrocarbons, polyalkyl-aryl sulfonates, and sulfonated castor oil in a solvent for the reactants.

2,664,421
PROCESS FOR INCREASING THE SOLUBILITY OF RIBOFLAVIN

Leo A. Flexser, Upper Montclair, and Walter G. Farkas, Nutley, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application April 18, 1951, Serial No. 221,734
7 Claims. (Cl. 260—211.3)

1. A process for increasing the water-solubility of riboflavin, which comprises dissolving riboflavin in a solvent selected from the group consisting of molten phenol, liquefied phenol containing about 10 per cent water in phenol, and strong formic acid containing from about 10 per cent to about 15 per cent water, and precipitating riboflavin from the solution with a precipitant selected from the group consisting of a lower alkyl ether and dichloroethyl ether.

2,664,422
MANUFACTURE OF WATER-SOLUBLE CELLULOSE ETHERS

John Downing and James Gordon Napier Drewitt, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application July 26, 1950, Serial No. 176,075
Claims priority, application Great Britain September 22, 1949
9 Claims. (Cl. 260—231)

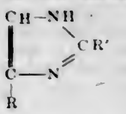
1. Process for the production of cellulose ethers, which comprises subjecting alkali cellulose of packing density above 15 lb./cu. ft. to the simultaneous action, at a temperature above 65° C., of the vapours of methyl chloride and another lower alkyl chloride containing at most 5 carbon atoms, the total amount of alkyl chloride being between 1.75 and 3 molecular proportions for each molecular proportion of cellulose (reckoned as one anhydroglucose unit) and the molecular ratio of methyl chloride to the other lower alkyl chloride being between 1:2 and 1:20.

2,664,423
4 - (CYCLOPENTANOPOLYHYDROPHENANTHR-17-YL) IMIDAZOLES AND DERIVATIVES THEREOF

Kurt Rorig, Chicago, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application March 12, 1952, Serial No. 276,238
10 Claims. (Cl. 260—239.5)

1. A compound of the structural formula



wherein R is a member of the class consisting of 17-androstane and 17-androstene radicals containing a member of the class consisting of oxo and hydroxy radicals in at least one of the positions 3, 11 and 17 and wherein R' is a member of the class consisting of hydrogen, lower alkyl and phenyl radicals.

2,664,424

DIOXO-PIPERIDINES

Karl Hoffmann, Binningen, and Eugen Tagmann, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application July 2, 1951, Serial No. 234,901
Claims priority, application Switzerland July 7, 1950
5 Claims. (Cl. 260—281)

1. A compound selected from the group consisting of the 3-amino-alkyl-2,6-dioxo-piperidines, which are substituted in 3-position by an unsaturated monocyclic radical and in which the alkylene group of the aminoalkyl radical contains not more than six carbon atoms, the acid salts of the said dioxo-piperidines with therapeutically useful acids, and the quaternary ammonium compounds of the said dioxo-piperidines in which the amino group of the aminoalkyl in 3-position is quaternated.

2,664,425

SUBSTITUTED MONOTHIOSEMICARBAZONES OF DIFORMYLBENZENES

Hans Schmidt, Wuppertal-Vohwinkel, and Robert Behnisch and Fritz Mietzsch, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y.

No Drawing. Application February 6, 1952, Serial No. 270,268
6 Claims. (Cl. 260—310)

1. A condensation product of p-formyl-benzal-thiosemicarbazone and a primary amino compound chosen from the group consisting of aminosalicylic acid, 4-aminobenzalthiosemicarbazone, aminoantipyrine, 4-aminobenzenesulfonamide, 4-aminobenzenesulfoguanidine, 4-aminobenzenesulfonamido-pyridine, 4-aminobenzenesulfothiourea, 2-(p-aminobenzenesulfonamido)-4-methylpyrimidine, allyl amine and p-aminoacetanilide; that is represented by the formula:



wherein R is a radical selected from the group consisting of 3-hydroxy-4-carboxyphenyl, 4-(thiosemicarbazonomethylidine) phenyl, antipyrinyl, 4-sulfamylphenyl, 4-(guanyliminosulfonyl) phenyl, 4-(2'-pyridyliminosulfonyl) phenyl, 4-(thioureidosulfonyl) phenyl, 4-(4'-methylpyrimidyl-2'-iminosulfonyl)-phenyl, allyl and 4-acetamidophenyl.

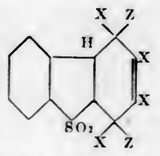
2,664,426

ADDUCTS OF THIANAPHTHENE-1-1-DIOXIDE

Otto C. Elmer, Fishkill, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application March 4, 1950, Serial No. 147,763
6 Claims. (Cl. 260—330.5)

1. A novel adduct of thianaphthene-1,1-dioxide and a conjugated diene having the general formula



wherein X is selected from the group consisting of hydrogen, chlorine, bromine, methyl and ethyl radicals, and Z is selected from the group consisting of hydrogen, chlorine, bromine, a methyl radical, an ethyl radical, an endomethylene group, an endopolymethylene group and a chloro substituted methyleneendo group.

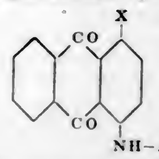
2,664,427

WATER-SOLUBLE α-ARYLAMINOANTHRAQUINONE DERIVATIVES

David I. Randall, Easton, Pa., and Edgar E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application February 10, 1950, Serial No. 143,599
10 Claims. (Cl. 260—380)

1. A compound having the general formula



wherein X represents a member of the group consisting of hydrogen, hydroxyl, and methylamino, Ar represents a monocyclic aryl hydrocarbon radical in which the —NH— and —CH_2Y radicals are nuclear substituents, (CH_2Y) is a radical of the group consisting of methylene quaternary nitrogen base salts, and methylene isothiouronium salts, and n is an integer from 1 to 2.

2,664,428

Δ⁴-17α-HYDROXY-3,20-DIKETO-PREGNEN-21-ALS

Karl Miescher, Rhine, and Julius Schmidlin, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application August 27, 1951, Serial No. 243,914
Claims priority, application Switzerland September 12, 1950
2 Claims. (Cl. 260—397.4)

1. A Δ⁴-17α-hydroxy-3,20-diketo-pregnen-21-al.

2,664,429

METHOD FOR MANUFACTURING POLYMERIZED FATTY ACIDS

Charles G. Goebel, Cincinnati, Ohio, assignor to Emery Industries, Inc., Cincinnati, Ohio, a corporation of Ohio

Application August 15, 1949, Serial No. 110,348
3 Claims. (Cl. 260—407)

1. The method of removing polyunsaturated components as dimer acids from a mixture of fatty acids containing polyunsaturated fatty acids, said process comprising establishing a flowing stream of said mixed fatty acids, adding to said flowing stream substantially from one to five per cent water, heating said flowing stream to a temperature of from substantially 350° to 400° C., while maintaining a pressure sufficient to retain said water in solution in the fatty acids to inhibit decarboxylation of said fatty acids, holding said stream of fatty acids at said polymerizing temperature for a period of substantially twenty minutes to an hour, cooling said stream of fatty acids to substantially 260° to 360° C., releasing the pressure on said stream of fatty acids and flash distilling the unpolymerized components as distillate and recovering the polymerized components as a residue.

2,664,430

FATTY ACID TREATMENT

Martin David Reinish, Brooklyn, and Joseph Patrick Caldarera, Flushing, N. Y., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application November 10, 1950, Serial No. 195,148
3 Claims. (Cl. 260—415)

1. In a method of producing light-colored fatty acids from natural fats and oils that includes hydrolyzing said fats and oils to produce crude fatty acids, introducing said crude fatty acids into a surge drum, and distilling said crude fatty acids, the step that includes bringing the crude fatty acids into intimate contact with air by bubbling air through said crude fatty acids while in the surge drum for a period of about 1 to 2 hours at a temperature of about 240° to 260° F. to oxidize the color-forming bodies therein to render said bodies non-volatile.

2,664,431

METHOD FOR STABILIZING SOYBEAN OIL REFINED BY SOLVENT TREATMENT

Herbert J. Passino, Englewood, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application October 2, 1948, Serial No. 52,535
11 Claims. (Cl. 260—426)

9. A method of refining soybean oil which includes: intimately contacting said soybean oil with a solvent having a critical temperature of less than about 450° F. under a liquefying pressure and in the paracritical range of the solvent-oil mixture in which the miscibility decreases as temperature increases, to form an extract phase containing most of the oil and a relatively small raffinate phase containing most of the color bodies from said soybean oil; separately withdrawing said extract and raffinate phases; returning not more than one tenth of said raffinate to said extract oil to produce an oil which is at least nine tenths decolorized and contains at least a portion of each raffinate stabilizing agent.

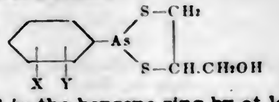
2,664,432

HETEROCYCLIC METAL AND SULFUR ORGANIC COMPOUNDS

Ernst A. H. Friedheim, New York, N. Y.

No Drawing. Original application January 28, 1947, Serial No. 724,925. Divided and this application September 19, 1951, Serial No. 247,369
4 Claims. (Cl. 260—440)

1. A new organometallic dithio derivative of an amino-phenyl-arsenic compound corresponding to the general formula



substituted in the benzene ring by at least one of the radicals X and Y, wherein X is selected from the group of H and —OH, and Y is selected from the group of —NH.$COCH_3$, —$NH.CONH_2$, —$NH.CH_2CONH_2$.

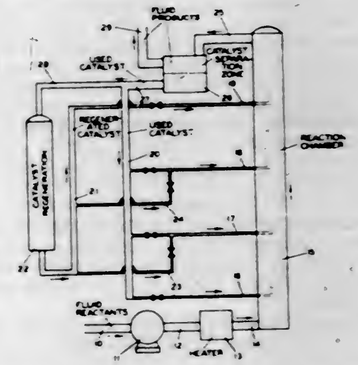
2,664,433

CATALYTIC SYNTHESIS OF ORGANIC COMPOUNDS

Thomas B. Hudson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application May 20, 1949, Serial No. 94,384
9 Claims. (Cl. 260—449.6)

1. A method of synthesizing aliphatic organic compounds by reaction of hydrogen with carbon monoxide, which comprises passing a gas comprising hydrogen and carbon monoxide upwardly through several individual fluidized beds of powdered synthesis catalyst maintained one above the other in a reaction zone maintained at synthesis conditions, introducing reactivated catalyst into the uppermost of said beds, introducing catalyst reactivated to a lesser extent into the next lower of said beds, and introducing into each of the remainder of said beds catalyst activated to successively lesser extents, the least activated catalyst being introduced into the lowermost of said beds, flowing catalyst downwardly through said several beds to maintain a fixed height of catalyst in each bed, withdrawing catalyst at least partially deactivated from the lowermost of said beds and passing same into the topmost of several individual superimposed fluidized beds in a reactivation zone, passing reactivation gas upwardly through said beds in said reactivation



zone under conditions effecting reactivation of said catalyst for said synthesis reaction, passing catalyst downwardly through said several beds in said reactivation zone and withdrawing the aforesaid most reactivated catalyst from the bottom thereof for passage to the uppermost catalyst bed in said synthesis reaction zone, as described, and withdrawing catalyst from each of said beds in the reactivation zone for introduction into the successive beds of said reaction zone, the more reactivated catalyst withdrawn from lower beds in said reactivation zone being introduced into the upper beds of said reaction zone and the less reactivated catalyst withdrawn from higher beds of said reactivation zone being introduced into successively lower catalyst beds in said reaction zone as described, whereby synthesis reaction mixture passing upwardly through said reaction zone encounters successively more catalyst activity in the direction of flow.

2,664,434

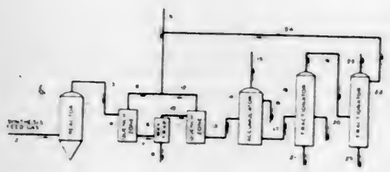
RECOVERY OF OXYGENATED ORGANIC COMPOUNDS

John S. Cromeans, Dewey, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 24, 1949, Serial No. 101,225
5 Claims. (Cl. 260—450)

1. The method of recovering normally hydrocarbon-soluble oxygenated organic compounds from the effluent from the catalytic hydrogenation of carbon monoxide in the presence of a fluidized iron catalyst at a temperature within the range of 295–320° C. which comprises; adding to said effluent an amount of low boiling aliphatic alcohol selected from the group consisting of methanol and ethanol sufficient to reduce the

temperature of said effluent to a temperature within the range of 200°–260° C.; separating condensed high boiling waxy hydrocarbons from the resulting cooled effluent; adding to said resulting cooled effluent an additional amount of said low boiling aliphatic alcohol to reduce the tempera-



ture of said effluent to a temperature within the range of 0°–100° C.; permitting said effluent to form two liquid phases; separating from said two liquid phases a liquid hydrocarbon phase having a substantially reduced oxygenated organic compound content and a liquid aqueous phase having a substantially increased oxygenated organic compound content.

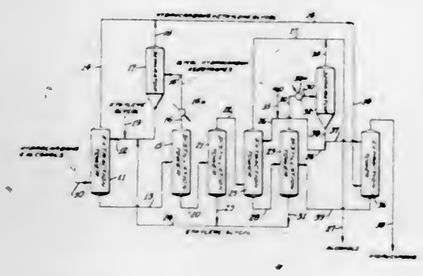
2,664,435

SEPARATION OF ORGANIC COMPOUNDS

William P. Burton, Orange, and Ernest Solomon, Nutley, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application December 26, 1946, Serial No. 718,584

9 Claims. (Cl. 260—450)



1. A process for treating a mixture comprising alcohols having at least 7 carbon atoms per molecule and hydrocarbons, said alcohols and hydrocarbons boiling between about 310° F. and about 430° F. and obtained in the catalytic hydrogenation of oxides of carbon, which comprises: subjecting said mixture to extraction treatment with a solvent comprising a glycol to obtain an extract comprising alcohols and a relatively small portion of said hydrocarbons, said hydrocarbons being present in azeotropic-forming proportions with said solvent, and a raffinate comprising the remainder of said hydrocarbons; recovering the extract thus formed; subjecting the extract thus recovered to distillation to form a relatively high boiling fraction comprising alcohols and a relatively low boiling fraction comprising azeotropes of said hydrocarbons and solvent; and separating hydrocarbons and solvent from said azeotropes.

2,664,436

LUBRICATING OIL COMPOSITION OF HIGH VISCOSITY AND METHOD FOR PREPARING SAME

Raymond L. Heinrich, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application December 6, 1950, Serial No. 199,572

4 Claims. (Cl. 260—451)

1. A method for increasing the viscosity of an olefinic lubricating oil polymer having lubricating oil characteristics which comprises oxidizing the polymer at a temperature in the range from 300° to 600° F. in the presence of an oxidation promoter consisting of an amount no less than 0.1% by weight of quinoline to form an oxidized product having a substantially increased viscosity and a low neutralization value and recovering said product.

2,664,437

O-(2-CHLORO-4-NITROPHENYL) O,O DIMETHYL THIOPHOSPHATE

John H. Fletcher, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application March 15, 1950, Serial No. 149,881

1 Claim. (Cl. 260—461)

O-(2 - chloro-4-nitrophenyl) O,O - dimethyl thiophosphate.

2,664,438

DIALKYL 3-DODECYLOXYPROPANE-1-PHOSPHONATE

Elbert C. Ladd and Merlin P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 3, 1950, Serial No. 194,022

2 Claims. (Cl. 260—461)

1. A dialkyl 3-dodecyloxypropane-1-phosphonate.

2,664,439

PROCESS FOR THE PRODUCTION OF BENZOIC-p-SULFONAMIDE

Hans Feichtinger and Siegfried Puschhof, Duisburg-Beeck, Germany, assignors to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany, a corporation of Germany

No Drawing. Application June 27, 1952, Serial No. 296,088

Claims priority, application Germany July 25, 1951

3 Claims. (Cl. 260—518)

1. Process for the production of benzoic-p-sulfonamide, which comprises reacting a chlorination mixture from the chlorination of p-toluenesulfonic sodium containing benzyl-chloride-p-sulfonic sodium, benzalchloride-p-sulfonic sodium and benzotrichloride-p-sulfonic sodium with phosphorus pentachloride, reacting the resulting analogous sulfo-chloride mixture with a member selected from the group consisting of aqueous ammonium polysulfide solution and aqueous ammonia solution with sulfur at an elevated temperature and pressure, and recovering the ammonium salt of benzoic-p-sulfonamide for acidification to benzoic-p-sulfonamide.

2,664,440

SEPARATION OF ISOPHTHALIC AND TEREPHTHALIC ACIDS FROM THEIR MIXTURES

William G. Toland, Jr., San Rafael, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 4, 1952, Serial No. 313,189

11 Claims. (Cl. 260—525)

1. A process for separating mixtures of isophthalic acid and terephthalic acid which comprises neutralizing the acids with a tertiary amine, forming a concentrated aqueous solution of the salts thus obtained, crystallizing a fraction of the dissolved salts from the solution, separating the salt fraction crystallized from the solution, heating said fraction to decompose the salts to their corresponding acids and tertiary amine and recovering the tertiary amine and acids as decomposition products.

2,664,441

SEPARATION OF ORGANIC ACIDS

Harry S. Owens, John B. Stark, and Alan E. Goodban, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 19, 1951, Serial No. 237,656

6 Claims. (Cl. 260—527)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process for separating an acid of the group consisting of acetic acid, lactic acid, glycolic acid, succinic acid, pyrrolidone carboxylic acid, malic acid, citric acid, and oxalic acid from its mixture with at least one other acid of said group which comprises adsorbing such a mixture of acids on an anion exchange bed which has been conditioned with an acid which is stronger than the acids to be separated the pH of the conditioned exchanger being about 1 to 1.5 pH units less than the pK of the weakest acid contained in said mixture, then eluting the exchanger with a solution of a strong mineral acid.

2,664,442

PROCESS FOR THE PURIFICATION OF PERCHLOROMETHYL MERCAPTAN

Jonas Kamlet, Easton, Conn., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application December 27, 1950, Serial No. 203,030

4 Claims. (Cl. 260—543)

1. In the production of perchloromethyl mercaptan by chlorination of carbon bisulfide, the improvement which comprises reacting the reaction mixture obtained by the chlorination of the carbon bisulfide with sulfur trioxide at a temperature not in excess of about 90° C., and recovering perchloromethyl mercaptan by distillation.

2,664,443

PROCESS OF PRODUCING TRICHLOROMETHANE SULFONYL CHLORIDE

William P. ter Horst, Lewiston, and Warren K. Cline, Niagara Falls, N. Y., assignors to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application January 8, 1952, Serial No. 265,536

5 Claims. (Cl. 260—543)

1. In the manufacture of trichloromethane sulfonyl chloride, the method which comprises oxidizing perchloromethyl mercaptan dissolved in chloroform with a material selected from the group consisting of alkali metal hypochlorites and alkaline earth metal hypochlorites.

2,664,444

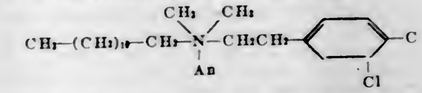
N-(n-DODECYL) - N - (3,4 - DICHLOROPHENETHYL) - N, N - DIMETHYL - AMMONIUM COMPOUNDS

Charles Edward Kwartler, Albany, N. Y., assignor to Winthrop-Stearns Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 20, 1951, Serial No. 257,425

3 Claims. (Cl. 260—567.6)

1. A compound having the formula



where An is the anion of a strong acid.

2,664,445

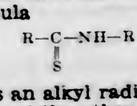
STABILIZED AROMATIC AMINES

Adrian L. Linch, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

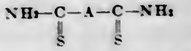
No Drawing. Application February 28, 1950, Serial No. 146,934

9 Claims. (Cl. 260—574)

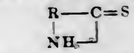
1. A composition consisting essentially of an aromatic amine of the benzene and naphthalene series which contains 1 to 2 benzene rings and 1 to 2 amino groups and which is devoid of acid groups and from about 0.01% to about 0.5% of a thioamide of the class consisting of thioamides having the formula



wherein one R is an alkyl radical containing 1 to 7 carbon atoms and the other R is selected from the class consisting of hydrogen and alkyl radicals containing 1 to 7 carbon atoms, thioamides having the formula



wherein A is a divalent saturated aliphatic hydrocarbon radical containing up to 4 carbon atoms, and cyclic thioamides having the formula



wherein R is a divalent saturated aliphatic hydrocarbon radical containing 3 to 5 carbon atoms.

2,664,446

ALDAL CONDENSATION

Francis Richard Charlton and Dennis Albert Dowden, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application June 14, 1950, Serial No. 168,174

Claims priority, application Great Britain June 30, 1949

7 Claims. (Cl. 260—594)

1. A continuous process for the production of aldol condensation products which comprises bringing a carbonyl compound into contact in the liquid phase at a moderate temperature with a catalyst comprising a calcium compound se-

lected from calcium oxide calcium hydroxide, hydrous calcium oxide and hydrous calcium hydroxide, supported on granules of a lithia-alumina complex analogous to sodium beta-alumina and to the spinels with a defective lattice.

2,664,447

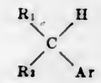
OXIDATION OF AROMATIC HYDROCARBONS

Eugene J. Lorand, Wilmington, Del., and John E. Reese, St. Simons Island, Ga., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 5, 1948, Serial No. 31,394

14 Claims. (Cl. 260—610)

1. The process of preparing a substantial yield of a tertiary hydroperoxide which comprises passing an oxygen-containing gas through an alkyl-substituted aromatic organic compound having the structural formula



in liquid phase in the presence of a catalyst of the group consisting of heavy metal oxides, hydroxides, organic acid salts and mixtures thereof, the concentration of the catalyst in solution in the oxidation reaction mixture being from about 0.15 to about 0.8%, based on the alkyl-substituted aromatic compound, and in the structural formula R_1 and R_2 representing alkyl groups and Ar representing an alkaryl group containing two or more carbon atoms in the alkyl side chain.

2,664,448

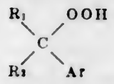
OXIDATION OF AROMATIC HYDROCARBONS

Eugene J. Lorand, Wilmington, Del., and John E. Reese, St. Simons Island, Ga., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

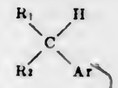
No Drawing. Application June 5, 1948, Serial No. 31,395

12 Claims. (Cl. 260—610)

1. The process of preparing a substantial yield of a tertiary hydroperoxide having the structural formula



which comprises passing an oxygen-containing gas through a reaction mixture comprising essentially an alkaryl compound having the structural formula



in the liquid phase in the presence of a catalyst of the group consisting of heavy metal oxides, hydroxides, organic acid salts and mixtures thereof, the concentration of the catalyst in solution in the oxidation reaction mixture being from about 0.15 to about 0.8%, based on the alkaryl compound, and in both structural formulae R_1 and R_2 representing alkyl groups and Ar representing a mono substituted aryl group in which the substituent is that represented by the combination of R_1 and R_2 with a tertiary carbon atom in the structural formulae.

2,664,449

PYROLYSIS OF TRIFLUOROCHLOROETHYLENE POLYMERS

William T. Miller, Ithaca, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

No Drawing. Application January 6, 1947, Serial No. 720,478

4 Claims. (Cl. 260—653)

1. The process which comprises the steps of heating a normally solid polymer of trifluorochloroethylene having a melting point of less than about 200° C. in a reaction zone at a temperature of from about 300° C. to about 450° C. and sufficient to split a carbon-carbon bond to cause the pyrolysis of said polymer to products containing a major portion of materials of substantially higher molecular weight than the monomer, distilling said pyrolysis products from the reaction zone as formed, and collecting said pyrolysis products.

2,664,450

PROCESS FOR THE PRODUCTION OF ACETYLENE BY INCOMPLETE COMBUSTION OF HYDROCARBONS

Hans Sachsse, Kelheim (Danube), Thomas Kesbahn, Heidelberg-Rohrbach, and Erwin Lehrer, Bad Durkheim, Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany

Application May 18, 1950, Serial No. 162,685

4 Claims. (Cl. 260—679)



1. A process for the production of acetylene by incomplete combustion of preheated hydrocarbon gas with oxygen which comprises supplying the hydrocarbon gas through a tube concentrically located within another tube through which the oxygen is supplied, mixing the two gases in an elongated chamber of circular cross-section adjacent to said supply tubes and adapted to receive said gases, and distributing the gas mixture prior to its entry into the combustion chamber by means of a block having a plurality of parallel channels therethrough, the cross-sectional area of said mixing chamber increasing from the end of said supply tubes to the end of said distributor block and the length of said mixing chamber being at least three times its width.

2,664,451

PROCESS OF DEHYDROGENATION

James R. Owen, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application October 24, 1949, Serial No. 123,301

18 Claims. (Cl. 260—680)

1. The improved method of dehydrogenating a dehydrogenatable hydrocarbon to a less saturated hydrocarbon which comprises contacting said dehydrogenatable hydrocarbon under dehydrogenating conditions with a pelleted alumina catalyst prepared by the steps of calcining hydrated alumina containing at least 28 per cent of combined water under conditions such that the resulting material when ignited to constant weight at about 2200° F. undergoes a weight loss ranging from 20 to 26 per cent, forming the resulting material into pellets, and calcining said pellets under such conditions as to remove residual water of hydration, so as to dehydrogenate said dehydrogenatable hydrocarbon to a less saturated hydrocarbon, and recovering the resulting hydrocarbon.

2,664,452

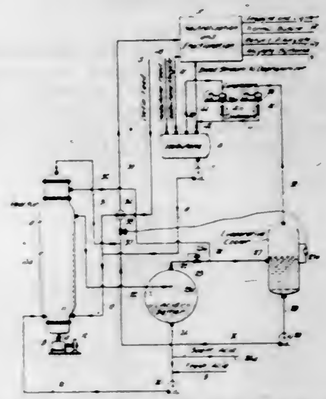
PROCESS FOR ALKYLATION UTILIZING EVAPORATIVE COOLING

David H. Putney, Kansas City, Mo., assignor to Stratford Engineering Corporation, Kansas City, Mo., a corporation of Delaware

Application November 7, 1952, Serial No. 319,244

6 Claims. (Cl. 260—683.4)

1. In an alkylation process wherein isobutane and olefins are contacted with a liquid acid catalyst in a reaction step, and a mixture of hydrocarbons containing less than 35% normal paraffins is withdrawn with the acid catalyst as effluent from said reaction step, the improvement which comprises separating said effluent into a



hydrocarbon phase and an acid phase in a separating step, reducing the pressure on the hydrocarbon phase in an evaporative cooling step to refrigerate the same, separating the vaporized hydrocarbons from the chilled liquid hydrocarbons and passing the latter in indirect heat exchange with the reactant mixture in the reaction step.

ELECTRICAL

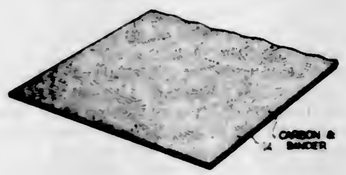
2,664,453

BATTERY ELECTRODE

Maurice Lang, Brooklyn, N. Y., assignor to Henry Hyman, New York, N. Y.

Application November 15, 1946, Serial No. 710,024

1 Claim. (Cl. 136—121)



A flexible water impermeable carbon plate electrode comprising a coherent sheet of a fibrous liquid permeable material impregnated from face to face with an imperforate coherent layer of polymerized vinyl chloride which is coextensive with the sheet and fills the interstices thereof, said polymerized vinyl chloride having carbonaceous particles of a graphitic nature uniformly distributed therethrough, said particles being present in an amount by weight equal to the amount by weight of the polymerized vinyl chloride so that said layer has a low electrical resistance.

2,664,454

SWIVEL ELECTRICAL CONNECTION FOR DEEP WELL DRILLS

Armais Arutunoff, Bartlesville, Okla.

Original application November 18, 1949, Serial No. 128,709. Divided and this application May 17, 1951, Serial No. 226,808

4 Claims. (Cl. 174—21)



1. A swivel assembly for electrical drilling of deep wells comprising an oil chamber, a pair of insulating discs with sliding contact members in said oil chamber, a cable connected to contacts of the upper of said insulating discs, a cable connected to contacts of the lower of said insulat-

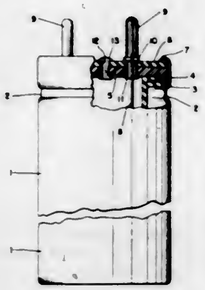
ing discs, stuffing box packings around said cable at the upper and lower ends of said oil chamber, and an annular piston chamber around the cable in the lower part of said assembly, said piston being provided with a spring to maintain an overpressure of said oil in said chamber.

2,664,455

WEATHERPROOF VIBRATOR ASSEMBLY

Clifford N. Williamson, Cleveland, Ohio, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware

Application November 29, 1951, Serial No. 258,907
1 Claim. (Cl. 174—52)



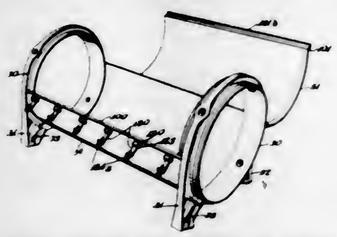
A vibrator assembly comprising a container, a vibrator element in said container, a disc of insulating material closing said container, a facing of rubber or other suitable material cemented to said disc, the upper end of said container being flanged over into engagement with said facing whereby a hermetic seal is provided between said flange and facing, said disc and facing having breathing openings therein, a plug of fusible material filling said openings, said plug having a melting point lower than the normal operating temperature of the vibrator and above normal ambient storage temperatures whereby said plug remains in situ under temperatures of normal storage conditions of the vibrator, but is expelled from said opening under temperatures of normal operating conditions of the vibrator.

2,664,456

HINGED BUS ENCLOSURE

Walter H. Schymik, Oreland, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 22, 1950, Serial No. 169,615
3 Claims. (Cl. 174—99)



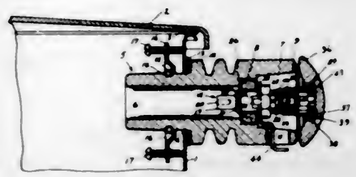
1. A sectionalized bus enclosure comprising a plurality of bus support frames spaced at appropriate intervals, each of said frames comprising annular members having legs, a structural support for each of said frames, insulators supported by said frames, said insulators supporting said bus, each of said frames having an annular groove carrying an annular gasket on each side of said frames, a bus housing comprising a first and second partly cylindrical section, the first and second sections forming a cylinder, the first section being secured between adjacent supporting frames, flanges formed throughout the length of and along both sides of each of said housing sections, a hinge support for said second section on each flange of said first section, gaskets secured to each of the flanges of one of said sections so that when said sections are in engagement with each other for closure, a moisture and dust proof seal is provided, a clamping member pivotally mounted on said hinge supports on both sides of said first cylindrical section, said clamping member being pivotally movable in its support for engaging and securing the adjacent flange of said second section to the fixed cylindrical section so that when the clamps along one side engage and are secured to the adjacent flanges, said second section is rotatable on said pivotal support for permitting opening of said second section from the opposite side.

2,664,457

TRANSFORMER BUSHING

Joseph C. Joublanc, Zanesville, Ohio, assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware

Application June 9, 1951, Serial No. 230,733
6 Claims. (Cl. 174—153)



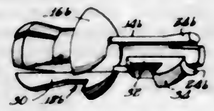
1. The combination with a lead-in bushing for an electrical apparatus casing, the bore of said bushing having intermediate its ends an inwardly extending annular shoulder dividing said bore into inner and outer chambers and further having a radial aperture opening into said outer chamber connector bolt in the bore of said bushing having between said shoulder and one of said ends of a a socketed shank portion disposed in said chamber and projecting toward the other of said ends, means secured on and projecting laterally from said shank and engaging said shoulder within said inner chamber, said bolt having a threaded bifurcated end in said outer chamber, the portion of said bolt intermediate said shank portion and bifurcated end being embraced by said shoulder, a nut threaded on said bifurcated end and engaging said shoulder within said outer chamber, said means and nut clampingly engaging said shoulder and anchoring said bolt against longitudinal movement within said bushing, the bifurcations of said bolt being disposed on opposite sides of a plane substantially coincident with the axes of said bore and aperture, and clamping means, said clamping means comprising a jaw slidable between said bifurcations, an actuator threaded on said bifurcations and rotatably secured to said jaw, and an insulating handle on said actuator overlying said outer chamber and serving as a closer therefor.

2,664,458

STRAIN-RELIEF GROMMET

George M. Rapata, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois

Application January 11, 1952, Serial No. 266,018
7 Claims. (Cl. 174—153)



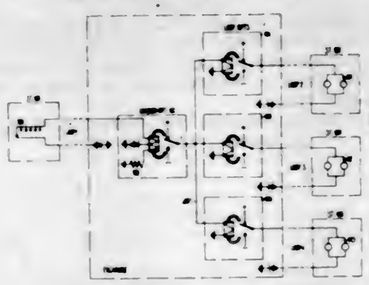
1. A strain-relief, electrically non-conductive grommet for accommodating elongated members, such for example as electrical conductors, including a hollow rivet section consisting of a shank, a head at one extremity of said shank for engaging one side of an apertured work piece, a transversely yieldable portion at the other end of said shank adapted to be expanded into engagement with the opposite side of the aforementioned apertured work piece, and a tubular section normally projecting from the head extremity of said rivet section in position to be driven into telescopic association therewith, said tubular section normally having substantially constant internal and external diameters throughout a substantial portion of its length, the outer extremity of said tubular section flaring radially outwardly and axially severed to assure inward flexing and consequent impingement of the inner periphery thereof with a complementary elongated member as an incident to telescopic association of the rivet and tubular sections.

2,664,459

AUTOMATIC SWITCHING MEANS FOR USE IN TELEGRAPH SYSTEMS AND THE LIKE

Roelof M. M. Oberman, The Hague, Netherlands

Application October 2, 1951, Serial No. 249,239
25 Claims. (Cl. 178—2)



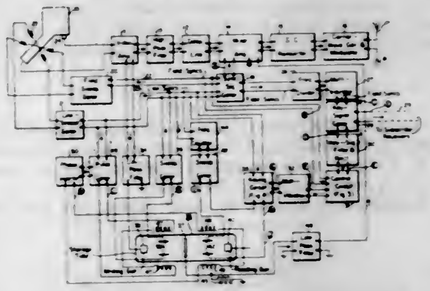
1. A telegraph system, comprising in combination, a calling station and a central station, said calling and central stations having telegraph transmitter and receiver equipment arranged therein; a group of stations called by said calling station for receiving a broadcast message transmitted by said calling station; a broadcast register located in said central station for connecting said calling station to at least part of said group of stations called by said calling station for receiving the broadcast message; a finder switch forming part of the register and having a contact bank and a wiper engaging the same; a switch-over relay connected to a contact of said bank so as to be energized when said contact of said bank of said finder switch engages said wiper, said switch-over relay connecting upon energization thereof said finder switch to said calling station; receiver means located in said broadcast register for receiving signals transmitted by said calling station; a first receiving relay; a second receiving relay; means for energizing said first receiving relay over said receiver means when a first predetermined signal transmitted by said calling station is received by said receiver means; means for energizing said second receiving relay over said receiver means when a second predetermined signal transmitted by said calling station is received by said receiver means; a register switch common to said group of stations and actuated by the energization of said receiving relays; and means connected to said register switch for automatically calling any station of said group of stations for receiving the broadcast message transmitted by said calling station.

2,664,460

SUBSCRIPTION TYPE TELEVISION SYSTEM

Erwin M. Roschke, Broadview, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application April 26, 1950, Serial No. 158,297
20 Claims. (Cl. 178—5.1)



1. A method of subscription type broadcasting comprising: producing during each of a series of similar trace intervals a video signal having components, representing information to be broadcast, extending through a specified frequency range and occurring in each of said trace intervals with a time distribution determined by said information; separating those of said components included in a portion of said frequency range from those of said components in the remainder of said frequency range; storing said components included in said portion of said frequency range for a preselected interval; deriving from said stored components during another series of similar trace intervals coded components occurring in each of said trace intervals with a time distribution different from said first-mentioned time distribution; combining said coded components with said components in the remainder of said frequency range; and transmitting said combined components over a signal channel.

2,664,461

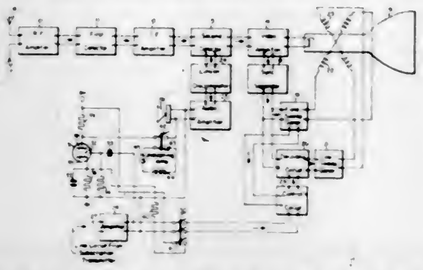
SUBSCRIBER RECEIVER ENUNCIATOR

John R. Howland, Lake Forest, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application May 10, 1950, Serial No. 161,080
3 Claims. (Cl. 178—5.1)

1. In a receiver for utilizing a television signal coded in accordance with a prescribed coding schedule, an image-reproducing device, apparatus for receiving said television signal and for supplying said signal to said reproducing device, a de-

coding mechanism coupled to said apparatus having a quiescent condition and having an operating condition in which said mechanism responds to an applied key signal to effect decoding of the coded signal, and a key-signal source for supplying to said mechanism during intervals of reception of the coded television signal a key signal



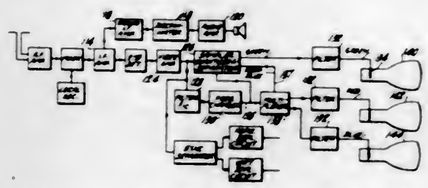
related to the coding schedule of the coded signal; an enunciator; a control circuit for actuating said enunciator, means for energizing said control circuit during any portion of the aforesaid reception intervals in which said decoding mechanism is in its quiescent condition; and means for disabling said control circuit when said decoding mechanism is in its operating condition.

2,664,462

MULTIPLEXED SIGNAL TRANSMISSION

Alda V. Bedford and George C. Sziklai, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application August 31, 1949, Serial No. 113,256
25 Claims. (Cl. 178—5.2)



1. A transmitter comprising means for deriving a plurality of voltage waves, each wave having its amplitude varied in accordance with a respective intelligence, means for quantizing one of said voltage waves into discreet levels, means for causing amplitude variations of other voltage waves to lie between quantized levels, means for adding said quantized wave and at least one of said other waves only during predetermined intervals, an electronic low pass filter coupled to the output of certain adding means, the upper frequency limit of said filter being in cycles per second not greater than half the number of said intervals that occur within a second.

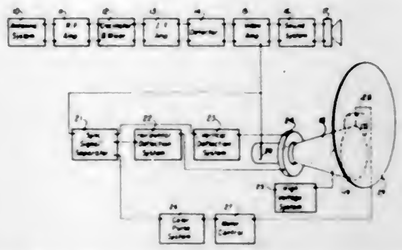
2,664,463

SYNCHRONIZATION SYSTEM

Norman W. Parker, Park Forest, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois

Application August 18, 1951, Serial No. 242,549
14 Claims. (Cl. 178—5.4)

1. In a synchronization system which operates from a signal including a first pulse wave having a relatively high repetition rate, a second pulse wave having a relatively low repetition rate, and which may include a control pulse immediately following a pulse of said first wave in the region immediately preceding said pulses of said second wave; a circuit for deriving said control pulse from said signal including in combination, means synchronized by said first pulse wave for producing a pedestal pulse wave occurring at the frequency of said first pulse wave, with the individual pedestal pulses having a duration less than the interval between pulses of said first pulse wave, and with the leading edges of the pedestal pulses being in phase with the leading edges of the pulses of said first wave and having a relatively slow rate of rise, means for combining said



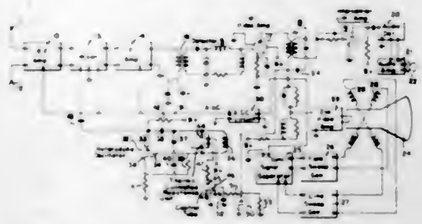
signal with said pedestal wave so that said control pulses are superimposed on said pedestal pulses and the remaining pulses of said signal fall between said pedestals, amplitude responsive means for providing an output signal from said superimposed control and pedestal pulses, said amplitude responsive means including bias controlling means controlled by said second pulse wave for increasing the bias on said amplitude responsive means during the period following each pulse of said second pulse wave and just preceding the next pulse of said second pulse wave, so that said amplitude responsive means does not produce an output signal during said period.

2,664,464

AUTOMATIC FREQUENCY CONTROL CIRCUIT FOR TELEVISION RECEIVERS

Albert Cotsworth III, Oak Park, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application June 28, 1951, Serial No. 234,000
5 Claims. (Cl. 178—5.8)



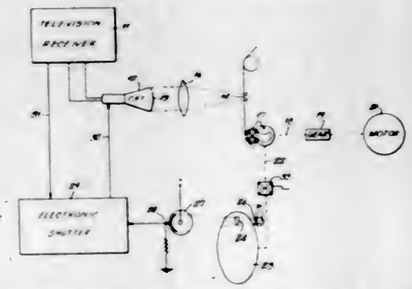
1. An intercarrier sound television receiver for utilizing a picture carrier amplitude modulated with video information and for concurrently utilizing a sound carrier having a fixed frequency separation from said picture carrier and frequency modulated with sound information, said receiver comprising: a first detector including a tunable heterodyning oscillator for converting said carriers to intermediate-frequency picture and sound signals; an intermediate-frequency channel coupled to said first detector and presenting a sloping frequency-response characteristic to said sound signal; a second detector coupled to said channel for deriving an intercarrier signal of fixed frequency from said picture and sound signals; a frequency-selective rectifier circuit coupled to said second detector for selecting and rectifying said intercarrier signal; a filter circuit coupled to said rectifier to derive therefrom a control potential substantially independent of said sound information and having amplitude variations representing frequency variations of said heterodyning oscillator from a reference frequency; and means responsive to said control potential for compensating said frequency variations.

2,664,465

TELEVISION RECORDER

Frank N. Gillette, Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York

Application April 18, 1950, Serial No. 156,553
15 Claims. (Cl. 178—7.4)



1. An apparatus for recording television images derived from the images displayed on a cathode ray tube screen comprising, a counting circuit having impressed thereon received television horizontal synchronizing signals, said counting circuit counting such number of horizontal synchronizing signals as constitute one less than are incorporated in one complete television picture and producing an output pulse at the termination of such count, means for simultaneously initiating the operation of said counting circuit and initiating the illumination of said cathode ray tube screen, and means operative by said counting circuit output pulse and the horizontal synchronizing signal which next succeeds the generation of said counting circuit output pulse for terminating the illumination of said cathode ray tube screen and the operation of said counter circuit.

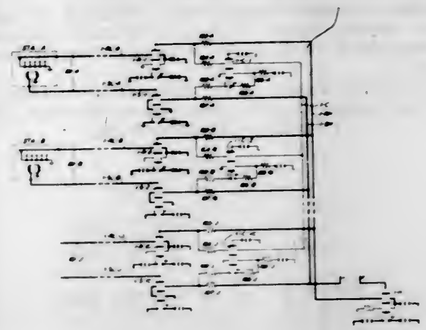
2,664,466

MULTIWAY TELEGRAPH REPEATER SYSTEM

Frank Harold Hanley, Butler City, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York

Application January 26, 1950, Serial No. 140,707
13 Claims. (Cl. 178—73)

4. A telegraph system comprising a plurality of lines, a line repeater having a receive relay, a send relay and one control relay only for each of said lines, a common repeater connected to the receive and the send relays of said line repeaters, and circuit means controlled by said control relay of any one of said line repeaters in response to the first or start impulse of a message incoming over the line associated with said one repeater for maintaining operated the send relay of said one line repeater for the duration of the incoming message repeated by said common re-



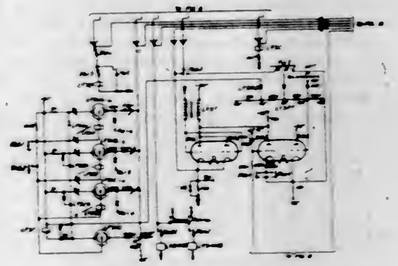
peater and thereafter until another message is received over another one of said line repeaters.

2,664,467

CYCLIC PULSE CONTROLLED TELECOMMUNICATION SELECTION SYSTEM

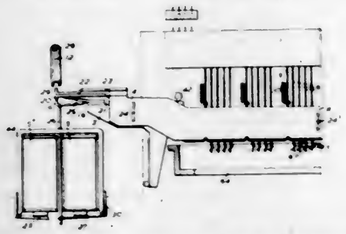
Martinus den Hertog, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application June 30, 1950, Serial No. 171,341
Claims priority, application France July 29, 1949
29 Claims. (Cl. 179—18)



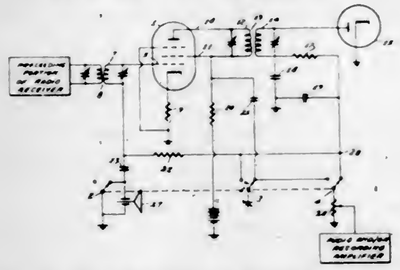
1. An automatic telecommunication exchange comprising incoming substation lines, call detector equipment common to a group of substation lines, means associated with a group of incoming substation lines for generating electrical calling pulses for different time positions in a cycle of time positions, one time position being individually allocated to each substation line of a group, means in the call detector equipment for responding to any number of calling pulses in a cycle of time positions from a corresponding number of calling lines, and a group of non-numerical connecting equipments connected to said call detector equipment and adapted to extend each of a plurality of concurrently calling lines in turn under control of said call detector equipment, said call detector equipment comprising means for retransmitting the calling pulses of a calling line to the non-numerical connecting equipment, each said non-numerical connecting equipment including means to select an incoming line, in accordance with the position in the substation line group time cycle of a calling pulse transmitted thereto by a call detector circuit.

2,664,468
COMMUTATING MECHANISM FOR CROSSBAR SWITCHES
André J. Montchausse, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 25, 1950, Serial No. 146,211
Claims priority, application France March 9, 1949
4 Claims. (Cl. 179—27.54)



1. A control system for cross-bar commutating mechanisms comprising a movable bar having a plurality of working positions and a rest position, a control device, means for moving said bar in either of two directions, clutch means attached to said bar, a two-portion interlocking device having a first portion attached to said bar and a second portion fixedly positioned with respect to said bar, said clutch means and both said portions movable in a direction normal to the direction of movement of said bar, means coupled between said control device and said second portion for engaging said clutch means with said moving means, said portions each having locking members associated therewith, said first portion having means for urging said first portion into locking relation with said second portion, said urging means operable when said bar is moved in either direction, means disposed between said bar and said clutch means for urging said clutch out of engagement with said moving means, said last named urging means adapted to become operative after completion of the movement of said moving means and locking of said portions, said locking means adapted to be released under control of said control device, and restoring means coupled to said bar for restoring said bar to its rest position after release of said locking means.

2,664,469
PREAMPLIFIER
William D. Moehring, Charlotte, and Lawrence V. Wells, Kalamazoo, Mich., assignors to Wilcox-Gay Corporation, Charlotte, Mich., a corporation of Michigan
Application March 22, 1951, Serial No. 217,002
4 Claims. (Cl. 179—100.11)



1. In an amplifier circuit having a radio frequency amplifier including at least one stage of radio frequency amplification comprising a pentode having an input and output circuit, a radio frequency transformer in said radio frequency stage connected to the input of said pentode, a second radio frequency transformer in said radio frequency stage connected to the output of said pentode and connecting said anode and screen grid to form a low impedance audio frequency connection therebetween to effectively make said pentode a triode, a microphone connected to the input circuit of said pentode, a first switch having a plurality of positions in one of which it shunts said microphone, a filter including a resistor and a condenser connected between the input and output of said pentode for providing automatic volume control bias for the input of said pentode, a second switch having a plurality of positions, a source of high voltage for said pentode, a resistor connected in the circuit of said high voltage source, a radio frequency by-pass condenser providing a by-passing circuit around said resistor, said second switch in one of its positions completing the circuit of said by-pass condenser, an audio frequency amplifier, a third switch having a plurality of positions in one of which it connects the secondary of said second transformer to the input of said audio frequency amplifier, said microphone connection to said pentode input being operative when said first switch is in another than said one position, circuit connections including said second switch in another than said one of its positions for connecting said filter resistance to the input of said pentode as a grid resistance for said electron tube and circuit connections including said third switch in another than said one position for directly connecting the output of said triode through said by-pass condenser as a coupling condenser to the input of said audio frequency amplifier.

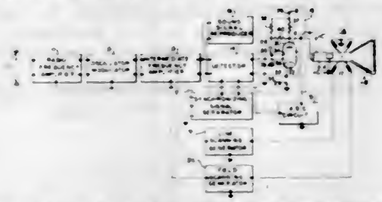
2,664,470
UNIVERSAL FOCUS SOUND SCANNING SYSTEM
Frank N. Gillette, Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application May 15, 1952, Serial No. 288,079
5 Claims. (Cl. 179—100.31)



1. A sound scanning system for reproducing sound modulations photographically recorded on the sound track of a film strip comprising, a scanning slit, means for illuminating said scanning slit, means for focusing an illuminated image of said scanning slit on one surface of said film strip, a transparent plate interposed between said scanning slit and said film strip said transparent plate being positioned so as to intercept a portion only of the light transmitted from said focusing means to said film strip, and means for converting light variations transmitted through said film strip into corresponding electrical variations.

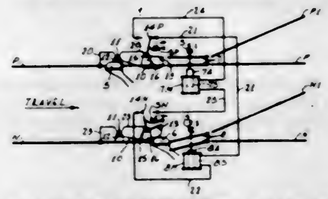
2,664,471
WIDE-BAND DIRECT-CURRENT REPEATER
Donald Richman, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application June 12, 1951, Serial No. 231,202
5 Claims. (Cl. 179—171)

1. A wide-band direct-current repeater for translating a signal having components in a wide range of frequencies including low-frequency components comprising: an electron-discharge device having in the space-current path thereof at least an anode, a cathode, a control electrode and a screen electrode; a circuit for applying said signal to said control electrode; potential-supply terminals for maintaining said anode and said screen electrode at operating potentials positive with respect to said cathode; an anode load circuit for said device; an impedance circuit connected across said terminals and having an intermediate terminal connected to said



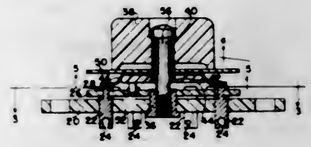
screen electrode and having an impedance varying substantially over said frequency range thereby tending to cause the signal-translating characteristics of said device to vary substantially over said range; and a conductive potential feedback path between said anode and said screen electrode and having an impedance substantially equal to the reciprocal of the internal cross conductance between said screen electrode and said anode to casue said signal-translating characteristic of said device to be substantially uniform over said frequency range.

2,664,472
AUTOMATIC ELECTRIC FROG
Everett C. Brown, Louisville, Ky., and Thomas Finan, Providence, R. I., assignors to Cheatham Electric Switching Device Company, Incorporated, Louisville, Ky., a corporation of Kentucky
Application September 8, 1950, Serial No. 183,874
6 Claims. (Cl. 191—38)



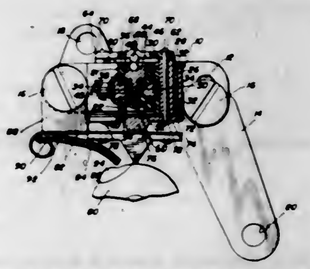
1. In a switching system for a pair of current collectors mounted on a vehicle, a pair of main trolley wires of opposite polarity and a branch wire for each main wire, a trolley frog at the intersection of each main and branch wire to guide a current collector on the vehicle either along the main wire or on to the branch wire, each frog provided with a movable tongue forming the guiding means for said current collectors, yielding means for biasing each tongue for a selected position for guiding a current collector along the main wire, a solenoid for operating a mechanism for moving each tongue for guiding a current collector from the main wire to the branch wire, control means for energizing said solenoid of each of said mechanisms comprising a contact device located adjacent each tongue and operated by a current collector so that each of said current collectors will retain the contact devices associated therewith in the operated position until the incident operating collector has engaged the tongue associated therewith.

2,664,473
SELECTOR SWITCH
Steffen S. Brown, Dayton, Ohio, assignor to The Brown-Brockmeyer Company, Dayton, Ohio, a corporation of Ohio
Application January 21, 1952, Serial No. 267,480
7 Claims. (Cl. 200—11)



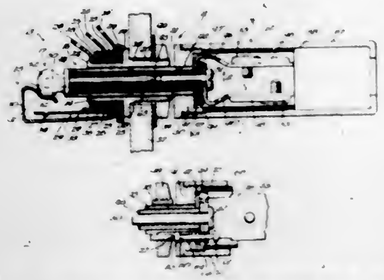
2. In a switch of the nature described for effecting voltage change and direction of rotation change in a single phase motor; a stationary panel, a plurality of contact elements rigidly embedded in said panel in circumferentially spaced relation around the peripheral edge thereof, certain of said elements projecting out one side of said panel and serving as terminal posts for connection with the leads of the motor and with the power lines that supply energy to the motor, a rotary member on the other side of said panel, said rotary member having contact members around its periphery for contacting said contact elements, means rotatably supporting said member on said panel, and means for locating said rotary member on said panel and for locking it in position thereon in the several operative positions of the said member, said means comprising a pin positioned inwardly of said contact members on said rotary member and a series of apertures on said panel for receiving said pin, said pin being of such a length that the contact members are separated from the contact elements before the pin is disengaged from the aperture in which it is positioned, the said means rotatably supporting the rotary member on said panel comprising a screw and said screw being adapted for clamping the rotary member against the panel to prevent its accidental movement.

2,664,474
CIRCUIT BREAKER
Carl V. Chermendy, Dearborn, Mich.
Application September 12, 1951, Serial No. 246,244
8 Claims. (Cl. 200—30)



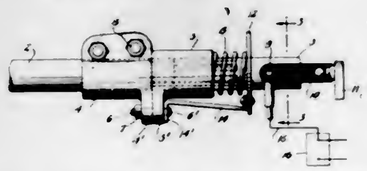
1. In an ignition breaker, the combination with an ignition breaker device and an operating cam therefor, the device having a bumper projection for operating it and an interposed contacting block between the device and the cam having means for mounting it to swing in engagement with the projection of the breaker device, and a projection on the attachment engaged by the breaker cam and moving the arm directly in contact with the projection of the device.

2,664,475
ELECTRICAL RECEPTACLE, PLUG, AND SWITCH
J. D. Harlin, Indianapolis, Ind., assignor to Harlin Brothers, Indianapolis, Ind., a partnership
Application May 13, 1950, Serial No. 161,768
5 Claims. (Cl. 200—51.1)



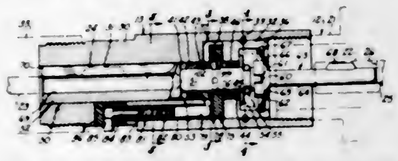
1. An electrical connector comprising a jack-plug device having a body and a projecting prong formed for interfitting engagement with a co-operating connector structure having a prong receiving cavity and a rim defining the open end of said cavity, said prong comprising a pair of relatively insulated contact elements adapted for connection making contact with corresponding contacts of the cooperating connector structure when interfitted therewith, a stem of electrical conducting material mounted on said body, electrically connected with one of said contact elements and axially slidable into and out of electrical connection with the other contact element, and means yieldingly urging said stem normally into engagement with said other contact element and to present an end of said stem in position projecting from a face of said device for stem depressing engagement with the rim of the co-operating connector structure, to disconnect said stem from said other contact element when said device is interfittingly engaged with said cooperating connector structure.

2,664,476
SHEAR COUPLING CONTROLLED ELECTRIC SWITCH
Avery B. Collins, Kimberly, Idaho, assignor to The New Holland Machine Division of the Sperry Corporation, New Holland, Pa., a corporation of Delaware
Application May 7, 1952, Serial No. 286,537
6 Claims. (Cl. 200—52)



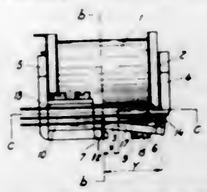
1. A pair of axially aligned shafts respectively having coupling members rotatable therewith, one of said shafts being axially movable relative to its coupling member, a shear bolt disposed through said coupling members parallel to said shafts and connecting said coupling members and shafts for rotation together, in combination with a fixed contact and means supporting same adjacent said axially movable shaft, a ring contact encircling and movable axially on said movable shaft, spring means coiled coaxially about said movable shaft under compression between said ring contact and its adjacent coupling member and resiliently urging said ring contact axially toward said fixed contact, and a yoke connecting said ring contact to said shear bolt to normally retain said ring contact retracted out of engagement with said fixed contact.

2,664,477
INTERMITTENTLY OPERATING DIRECTION RESPONSIVE SWITCH
Howard B. Lewis and Howard Field, Jr., Los Angeles, Calif., assignors to B. F. McDonald Company, Los Angeles, Calif., a corporation of California
Application March 27, 1950, Serial No. 152,044
17 Claims. (Cl. 200—61.39)



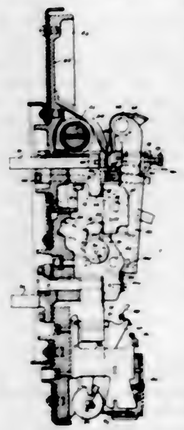
2. An intermittently operating, direction responsive switch, including: primary and secondary members rotatable in forward and reverse directions; means including a direction responsive switch for transmitting rotational movement of said primary member in said forward and reverse directions to said secondary member, said direction responsive switch being closed during rotation of said primary and secondary members in said reverse direction and being open during rotation thereof in said forward direction; and an intermittently operating switch actuable by said secondary member during rotation thereof in said forward and reverse directions at a frequency proportional to the rotational speed of said secondary member, said intermittently operating switch being operatively connected to said secondary member and being connected in series with said direction responsive switch.

2,664,478
ELECTROMAGNETIC RELAY
Karl Lennart Johansson, Bromma, Sweden
Application February 10, 1951, Serial No. 210,359
2 Claims. (Cl. 200—87)



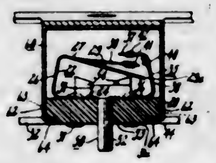
1. An electromagnetic relay comprising a core with two poles, at least one coil-winding on said core, spring assemblies, a pole-piece on each of said poles, said pole-pieces being bent round the ends of the coil in L-shape, the legs of said pole-pieces parallel to the coil being extended on the same side along said coil that an air-gap is obtained between said legs, one leg extended farther from the coil than the other, one of said legs being provided with extensions sideways beyond the coil carrying spring assemblies, an armature movably supported at the middle on the extremity of said leg farthest extended from the coil with one arm of said armature between this leg and the coil and the other arm on the outside of the other leg, said last arm provided with members for operating said spring assemblies, means for movably holding of said armature on said leg.

2,664,479
BLOW-ON CONTACT STRUCTURE
Frank Joseph Pokorny, Philadelphia, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation
Application September 19, 1951, Serial No. 247,266
9 Claims. (Cl. 200—87)



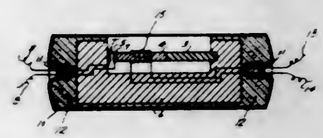
1. A blow-on contact structure for electrical switch gear comprising a movable pivoted contact carrying arm; a contact member pivotally carried by said contact arm; said contact member having a first contact element and a second contact element located on opposite sides of the pivotal mounting of said contact member; a first complementary contact engageable with said first contact element; a second complementary contact engageable with said second contact element said first contact and said second contact in an electrical series circuit, the first contact element being closer to the pivotal mounting of said contact member than the second contact element; and biasing means for said second complementary contact urging it toward said second contact element.

2,664,480
CIRCUIT BREAKER
Harold V. Elliott, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 7, 1950, Serial No. 148,172
6 Claims. (Cl. 200—116)



1. In a switch the combination with a base provided with two terminals; of a thermo-responsive means having one portion secured to one of said terminals and another portion split to provide a detent and a support for a contact element; a movable member having one portion secured to the other terminal and having a split portion providing two resilient arms one of which carries a contact element operative to engage the first mentioned contact element, the other arm providing a latch engagement with the detent to hold the contact elements in engagement, said latch being releasable by the detent to discontinue contact engagement in response to flexing of the thermo-responsive means; and an actuator engaging the latch arm, said actuator being operative to flex the movable member for contact engagement.

2,664,481
THERMAL RELAY AND CONSTANT GAP SPACER
Harry A. Pearl, Dayton, Ohio, and Merritt Allen Rudner, Camden, N. J.
Application November 14, 1951, Serial No. 256,354
19 Claims. (Cl. 200—122)
(Granted under Title 35, U. S. Code (1952), sec. 266)

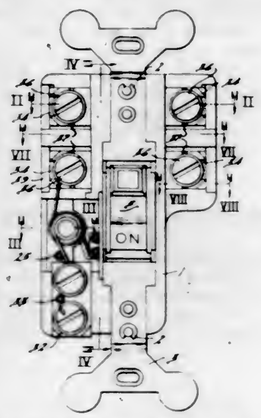


1. A contact making and breaking device comprising a compound member composed of materials some of which have a positive thermal coefficient of expansion and others of which have a negative thermal coefficient of expansion and so fabricated that the length of said compound member does not change with wide variations in ambient temperature, a holder member having an effectively zero thermal coefficient of expansion, said compound member having one end thereof firmly attached to one end of said holder member and having the other end thereof unsupported and mounted adjacent the other end of said holder member so that a predetermined fixed gap is maintained between said unsupported end of said compound member and said other end of said holder member over a wide range of ambient temperatures, means for applying heat to a portion only of said compound member so that said gap is either closed or opened, depending upon whether said portion has a positive or a negative thermal coefficient of expansion, respectively.

2,664,482
ELECTRIC SWITCH
Paul R. Goudy and Kenneth G. Sedgwick, Milwaukee, Wis., assignors to Square D Company, Detroit, Mich., a corporation of Michigan
Application November 17, 1951, Serial No. 256,856
17 Claims. (Cl. 200—124)

1. In an electric switch having actuating means operable to effect opening and closing of an electrical circuit through the switch, movable contact means operable by said actuating means to open and closed circuit positions, an insulating base enclosing said actuating and movable contact means, conducting fixed contact means of substantially resilient metal and generally U-shape disposed at opposite sides of said base with the opposing leg portions of said fixed contact means tightly engaging upper and lower surfaces of said base whereby said fixed contact means are held in position by the resiliency of said fixed contact means, and a generally U-shaped cover of insulating material dis-

posed about said fixed contact means, upstanding portions of said cover spaced apart a distance substantially equal to the width of said



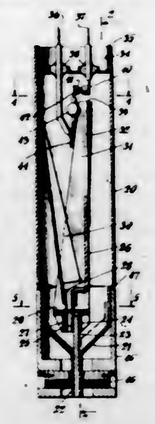
base, and interengaging distorted portions on said upstanding portions and said base whereby said cover is mounted to said base only by the resiliency of said cover.

2,664,483

THERMOSTAT

William C. Broekhuysen, Brooklyn, N. Y.

Application February 21, 1950, Serial No. 145,475
16 Claims. (Cl. 200—137)



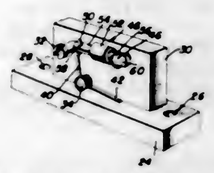
1. A thermostat including in combination a shell formed of metal having a high co-efficient of expansion, a strut element having one of its ends fixed against movement with respect to said shell, a strip element also having one of its ends fixed against movement with respect to said shell at a point spaced from that at which said strut element is so fixed, at least one of said elements being formed of metal having a low co-efficient of expansion, a contact supported by said shell, a second contact movable with respect to said first named contact and cooperable therewith, an actuating arm for said movable contact carried by said strut element at a point intermediate the length of the latter and said strut element being provided with a zone of flexure at a point adjacent the point of mounting of said arm.

2,664,484

FIRE ALARM SWITCH

Wilfrid Normand, New Bedford, Mass., assignor to Joseph W. Lajeunesse, New Bedford, Mass.

Application November 9, 1951, Serial No. 255,633
2 Claims. (Cl. 200—142)



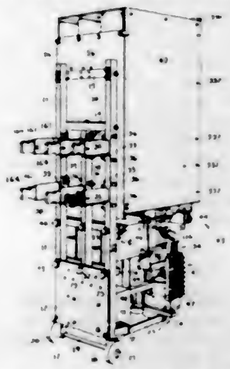
1. A fire alarm switch comprising a base of insulating material, an upstanding panel of insulating material secured on said base, a pair of contact pins mounted on said panel, a conducting bridge, said bridge being biased to move into closing position between said contact pins, an anchor pin mounted on said panel, a link engaging said anchor pin and said bridge, said link restraining said bridge from moving to closing position, said link including a cylindrical member, a substantially tubular body slidably engaging said member, a fusible material of low melting point securing said body on said member.

2,664,485

HIGH-VOLTAGE CIRCUIT BREAKER

Arthur S. Caswell, Philadelphia, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Original application January 11, 1947, Serial No. 721,648, now Patent No. 2,613,299, dated October 7, 1952. Divided and this application August 26, 1948, Serial No. 46,279
1 Claim. (Cl. 200—168)



A sub-assembly for circuit breakers comprising a plurality of metallic vertical bars, metallic cross-bracing means for said bars, terminal bars comprising a substantially flat conductor and insulator cover having the general configuration of said conductor and constructed to be slipped over the conductor as a sleeve, said insulator cover being compressible to conform to the shape of said conductor and tightly adhere to the surface of said conductor, said insulator cover having its inner surface lined with conducting material which is in surface-to-surface engagement with said conducting bar for preventing the formation of minute air pockets, said insulator cover being of phenolic material, said vertical bars each having a recess for supporting said terminal bars, a side plate engaging said terminal bars at said

recess; securing means for securing said side plates to said vertical bars for positioning said terminal bars in said recess; and a back flat insulating panel secured to the framework formed by said bars and cross-bracing means.

2,664,486

THERMISTOR AND METHOD OF HEAT-TREATING IT

Harry C. Colpitts, Montreal, Quebec, Canada, assignor to Northern Electric Company, Limited, Montreal, Quebec, Canada, a corporation of Canada

Application June 15, 1951, Serial No. 231,814
5 Claims. (Cl. 201—63)

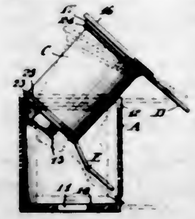
1. A method of making uranium oxide thermistors with a temperature-resistance characteristic of high accuracy which comprises a preforming of the semiconductor element and thereafter heat treating by the momentary dissipation of electric energy in the said element, said energy being very large compared to the normal working capacity of the thermistor.

2,664,487

ELECTRICAL RESISTOR

Henry C. Gorden, Los Angeles, Calif., assignor to Gorman Manufacturing Corporation, Los Angeles, Calif., a corporation of California

Application January 7, 1952, Serial No. 265,249
9 Claims. (Cl. 201—67)



1. An electrical resistor comprising a cylindrical shell open at one end and having an end wall at its other end formed with an axial circular opening, a spool embodying a resistance coil receiving core insertable in the open end of said shell with an end thereof inserted in said opening in snug engagement with the portion of said end wall surrounding said opening, an integral annular flange on the other end of said core abutting the open end of said shell and having a reduced inner marginal portion abutting the inner peripheral portion of said shell adjacent the open end thereof, a cylindrical coil of resistance wire encompassing said core, and terminals on said coil leading exteriorly of said shell.

2,664,488

ARC WELDING ELECTRODE

René-Jacques Fernand Daniel Robert Mouton, Uccle, Belgium, assignor to Soudemetal Societe Anonyme, Forest-les-Bruxelles, Belgium

Application August 14, 1950, Serial No. 179,235
4 Claims. (Cl. 219—8)

1. An arc welding coated electrode comprising a steel core, a coating around said core, said coating when normally dry having an outside diameter between 1.7 and 2.3 times the diameter of said steel core and such a composition that when it is heated in air for a period of one hour at a temperature of 850° to 950° F., it is subject to a loss of from approximately five to thirty percent by weight, said coating containing



silica, titanium dioxide, and a substance taken from a group consisting of lime and magnesium oxide, said last named substance being present in such quantity that the ratio by weight

$$\frac{SiO_2+TiO_2}{CaO+MgO}$$

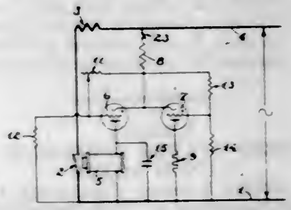
is above 13.

2,664,489

ELECTRICAL HEATING SYSTEM

John W. Dickey, Newfield, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware

Original application October 29, 1945, Serial No. 625,329. Divided and this application October 9, 1950, Serial No. 189,098
4 Claims. (Cl. 219—20)



3. In an electrical heating system a heating element, an electrical circuit therefor including a source of alternating current and an electromagnetic switch, and a control network for the switch including a resistor connected across the source of power through two parallel branch paths, one path containing a grid-controlled gaseous discharge tube, and the other path containing a similar tube and the electro-magnet of said switch, a thermally responsive resistor and a manually variable resistor, and means associated with said two last mentioned resistors for so biasing the grids of the tubes as to selectively cause one or the other of said tubes to become conductive in accordance with the instantaneous relative values of said resistors.

2,664,490

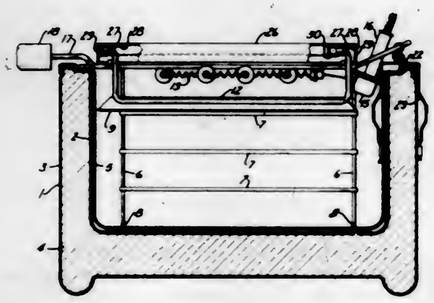
BROILER GRIDDLE MOUNTING MEANS

Guy H. Allgeyer, Toledo, Ohio, assignor, by mesne assignments, to Tropic-Aire, Inc., Chicago, Ill., a corporation

Application December 29, 1949, Serial No. 135,810
3 Claims. (Cl. 219—35)

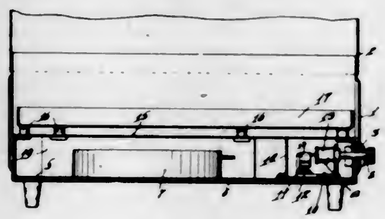
2. In a food broiling and frying attachment having a generally-rectangular, open, wire frame, a heating unit carried by said frame and hinge means for mounting said attachment for movement between a generally-horizontal cooking position overlying a food supporting and containing body, and a generally-vertical position not overlying said body, said attachment having also a generally-flat reflector adapted to overly said heating unit when said attachment is in cooking position, the improvement that consists in a

quickly-detachable means for mounting said reflector on said frame, said mounting means comprising hook elements on said frame, each said hook element extending up from the frame in the cooking position thereof and away from said hinge means, and cooperating parts on said reflector for engaging said hook elements, said cooperating parts providing shoulder portions that



fit under said hook elements for holding said reflector against motion upward from the cooking position and hingeward, and providing also shoulders for limiting movement of said reflector in the two directions of the hinged axis, said frame leaving said reflector sufficiently unobstructed that it can move on said frame toward and away from said hinge means for hooking and unhooking said parts.

2,664,491
ELECTRIC HEATER APPLIANCE FOR LUNCH BOXES
Guy Gilbert Kenney, Cincinnati, Ohio
Application November 15, 1950, Serial No. 195,772
2 Claims. (Cl. 219—35)



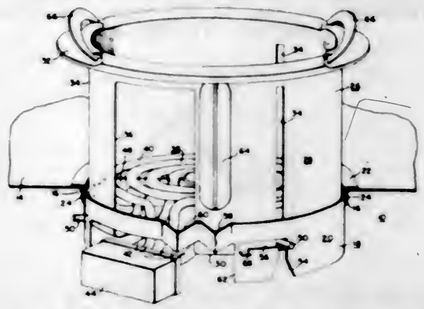
1. A lunch box of the conventional type sheet metal structure, comprising a body section, a cover section for the body section, a casing removably supported within said body section for the lower portion thereof, an apertured closure plate for the upper side of said casing fixed thereto, an electric heater element within said casing in spaced relation beneath said apertured closure plate, electric circuit control mechanism mounted within said casing at one end thereof having a manually operable electric circuit control switch accessible from an exterior end of said casing and correspondingly from the body section of said box, thermostatically operated electric circuit control means within said casing to automatically control and cut off the electric current to said electric heater element at a determined degree of temperature within said lunch box and a tray removably mounted upon said casing in spaced relation from its apertured cover plate for sustaining the food packaged within said box.

2,664,492
HEATING PLATE STRUCTURE
Karl Fischer, Oberderdingen, Germany
Application August 24, 1949, Serial No. 112,093
Claims priority, application Germany February 9, 1949
5 Claims. (Cl. 219—37)



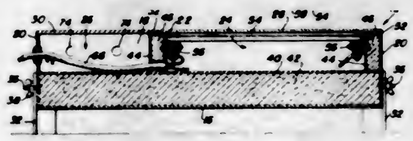
2. In an electric heating plate structure, a cast iron heating plate and a sheet metal ring of a corrosion-resistant material whose inner border is bent downwards from its radially projecting portion so as to form a completely closed annular collar which is cast in the outer rim of said heating plate so as to be completely embedded at its lower edge and at its lateral faces by cast walls of said cast iron heating plate having substantially the same wall thickness on the lower, inner, and outer sides of said collar, said ring comprising a peripheral eaves edge.

2,664,493
RANGE APPARATUS
Paul M. Weyrick, Ashland, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 19, 1950, Serial No. 185,609
6 Claims. (Cl. 219—37)



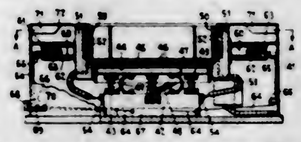
4. An adjustable level cooking unit comprising a support ring element, a cylindrical sheet metal casing element rotatable and axially slidable within said support ring, said support ring being substantially shorter in axial direction than said casing, an electrical heating unit horizontally disposed within said casing and adjustable to upper and lower positions by said casing, said casing having a plurality of vertically elongated slots and said heating unit having a plurality of arms extending outwardly through said slots, said heating unit being supported in the lower position by said casing and being jointly rotatable therewith, said support ring having a plurality of horizontally disposed ledges, and said heating unit being elevatable to said upper position by said casing, said casing being rotatable when elevated to effect engagement of said arms with said ledges, said ledges thereby supporting said heating unit in said upper position, said support ring having a vertically disposed passage adjacent each of said ledges and in communication therewith for guiding said arms into engagement with said ledges, and means for locking said casing against rotation but permitting vertical movement when said casing and said heating unit are in the lower position, said locking means being arranged to guide said arms into registry with said passages and comprising a vertically elongated keying member on said casing and a substantially shorter mating keying member on said support ring.

2,664,494
ELECTRIC HEATER FOR HOG FOUNTAINS
Fred M. Beekley, Middletown, Ohio
Application August 3, 1951, Serial No. 240,136
1 Claim. (Cl. 219—38)



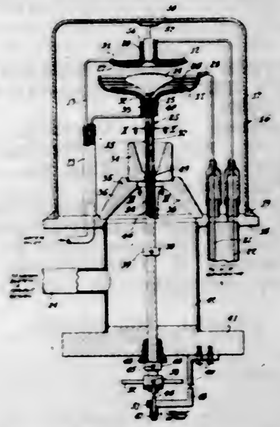
In an electric heater, the combination of a horizontally elongated housing including a bottom, a pair of side walls and a pair of end walls, a transverse partition extending between said side walls intermediate the ends of the housing and separating the interior of the housing into a relatively large compartment and a relatively small compartment, said relatively large compartment having insulated walls and bottom, an electric heating element mounted in said large compartment, a thermostatic switch mounted in said small compartment and connected in series with said element, and removable coplanar covers provided on the respective compartments of said housing.

2,664,495
ELECTRIC COOKING DEVICE
Alfred Wehrli, Islikon, Switzerland
Application August 18, 1950, Serial No. 180,136
Claims priority, application Switzerland August 19, 1949
3 Claims. (Cl. 219—43)



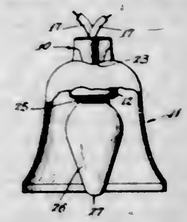
3. In an electric stove, in combination, a supporting casing; a plurality of electric heating elements located inside said supporting casing and having substantially vertical oppositely arranged heating surfaces defining a well for receiving a cooking vessel, each of said electric heating elements being supported in said supporting casing for movement in a horizontal direction between an inner operative position and an outer inoperative position, and adapted to engage in said inner operative position the side walls of a cooking vessel placed in said well; spring means located in said supporting casing abutting against the same and urging said electric heating elements into said operative position; manually operated means mounted in said supporting casing and connected to said electric heating elements for retracting the same against the action of said spring means from said operative into said inoperative position; means for holding said manually operated means in a position corresponding to said inoperative position of said heating elements against the action of said spring means; at least one further spring means located in said supporting casing below said heating elements and having one end abutting against said supporting casing; and at least one electric heating unit resiliently supported by the other end of said further spring means and urged upwardly by the same, said electric heating unit being adapted to engage the bottom face of a cooking vessel placed in said well between said heating elements.

2,664,496
APPARATUS FOR THE MAGNETIC LEVITATION AND HEATING OF CONDUCTIVE MATERIALS
Porter H. Brace, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 25, 1952, Serial No. 322,519
11 Claims. (Cl. 219—47)



5. Apparatus for levitating, heating, and melting electrically-conductive materials, comprising a conductive tube helically coiled from a lower opening to upwardly-expanding frusto-conical form, a similar tube spirally coiled with its turns lying in a plane over the turns of said first tube and coaxial therewith, and a magnetizable core, the upper surface of which is convex, disposed on the axis of said helically coiled tube and closing the lower opening therein, to provide maximum field strength in the space above said lower opening.

2,664,497
COMPOSITE MOLDED ORNAMENTAL LIGHT FIXTURE
Frank L. Reynolds, Stratford, Conn., assignor of one-half to Frederick W. Wyatt, Bridgeport, Conn.
Application March 1, 1950, Serial No. 147,116
6 Claims. (Cl. 240—10)



1. In a composite, electrically-lighted ornament formed of molded materials, a member of thermosetting plastic, having a lozenge-shaped portion and an adjacent, substantially cylindri-

cal portion and having a bore in said cylindrical portion for receiving an electric bulb socket and associated wiring means, said lozenge-shaped portion of the member having ends projecting beyond the outside of the cylindrical portion at opposite locations, providing a pair of transverse shoulders facing generally in the same direction, and said cylindrical portion of the member projecting beyond the outside of the lozenge-shaped portion at a second pair of opposite locations, providing a second pair of transverse shoulders facing generally in opposite directions to the first pair; and a thermoplastic bulb shade extending around and having portions conforming to the exterior of said member and covering said shoulders, thereby providing interlocking engagement between said member and shade and permanently uniting the same.

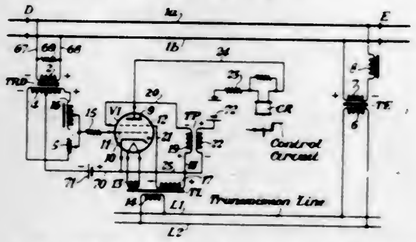
2,664,498

ALTERNATING CURRENT RAILWAY TRACK CIRCUITS EMPLOYING GAS-FILLED ELECTRON TUBES

Paul N. Martin, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application April 30, 1946, Serial No. 665,944, which is a division of application Serial No. 545,519, July 18, 1944, now Patent No. 2,541,879, dated February 13, 1951. Divided and this application September 29, 1951, Serial No. 248,953

5 Claims. (Cl. 246—34)



1. In a railway track circuit, the combination comprising, a track section, a source of alternating current connected across the rails at the exit end of the section; a gas tube having an anode, a cathode, a control grid and a shield grid; a line transformer having a primary winding connected to said current source; another transformer, a shield grid circuit including in series a secondary winding of said line transformer, a primary winding of said other transformer and said shield grid; said cathode connected to said shield grid circuit at a point intermediate said secondary winding of the line transformer and said primary winding of said another transformer to bias said shield grid with respect to the cathode, an anode circuit connected between said anode and cathode and including a secondary winding of said other transformer, said secondary winding poled for said shield grid to be negative in potential with respect to said cathode the half cycle of said alternating current source said anode is positive in potential with respect to said cathode to avoid firing said tube, means to connect said track rails across said control grid and cathode, said last mentioned means being poled for said track circuit current to drive said control grid positive in potential with respect to the cathode to fire the tube each half cycle said anode is positive, and control means connected to said anode circuit energized when said tube is conductive.

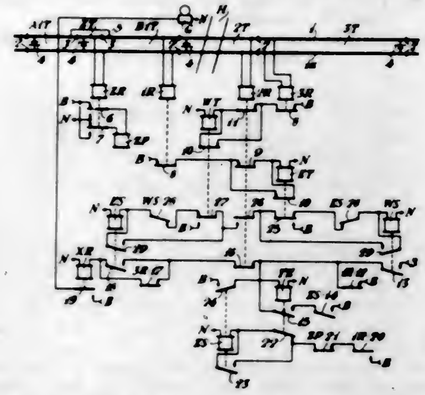
2,664,499

APPARATUS FOR CONTROLLING HIGHWAY CROSSING SIGNALS

Kenneth L. Muse, Hagerstown, Md., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application June 19, 1948, Serial No. 33,980

10 Claims. (Cl. 246—130)



1. In a control system for a highway crossing signal adjacent the intersection of a railway track with a highway, in which the railway track is divided into a crossing track section at the intersection and two approach control sections one adjacent each end of said crossing track section, and in which a direction stick relay for each direction of traffic movements is controlled to become energized when a train moves in the corresponding direction from an approach control section onto said crossing track section, the combination comprising, a timing stick relay, a time element device, means controlled by a train upon occupying one of said approach control sections for energizing said timing stick relay, means controlled by a front contact of said timing stick relay for energizing said time element device, means controlled by a train upon entering said one approach control section for starting operation of said crossing signal, means controlled by front contacts of said timing stick relay and said time element device for interrupting operation of said crossing signal, means controlled by further movement of said train toward said intersection for again starting operation of said highway crossing signal before said train enters said crossing track section, and means controlled by each of said direction stick relays for stopping operation of said crossing signal when a train leaves said crossing track section in a corresponding direction.

2,664,500

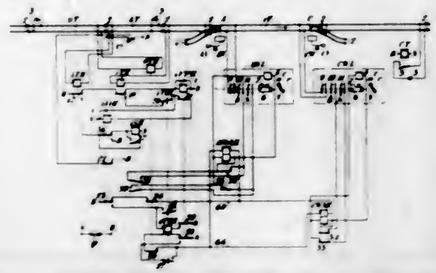
CONTROL APPARATUS FOR ELECTRIC LOCKS FOR RAILWAY TRACK SWITCHES

Warwick R. Baker and Robert M. Rosensteel, Wilmington, N. C., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application June 23, 1949, Serial No. 100,896

13 Claims. (Cl. 246—161)

1. In combination, a stretch of main railway track including a signal block, a signal for governing traffic movements over said main track onto said block, a track switch in said block a short distance in advance of said signal, a second track switch in said block a longer distance in advance of said signal, an electric lock for each of said switches each of which when deenergized locks the associated switch in its normal position, a directional stick relay energized in response to a train on said main track passing said signal onto said block, a stick circuit for then retaining said directional stick relay energized in response to said train on said block, means controlled by a front contact of said stick relay for energizing the electric lock for said



first switch, a time element device, a contact of said time element device which becomes closed upon the lapse of a measured period of time after said time element device becomes energized, means for energizing said time element device in response to a train on said block, and means controlled by said contact of said time element device for energizing the electric lock for said second switch.

2,664,501

FREQUENCY CONVERSION SYSTEM

Glen S. Whidden, Charlotte, Mich., assignor to The Wilcox-Gay Corporation, Charlotte, Mich., a corporation of Michigan

Application August 10, 1949, Serial No. 109,609

3 Claims. (Cl. 250—20)



1. In an ultra-high frequency conversion circuit, a tunable oscillator tank circuit comprising a first inductance and a first variable capacitance connected across said first inductance for tuning said oscillator circuit, a first electron tube having a cathode, grid and anode, circuit connections from said cathode to an intermediate connection point on said inductance such that maximum stable oscillations for the entire tuning range of said oscillator circuit is secured, circuit connections from one terminal of said oscillator circuit to the grid of said tube the other terminal of said oscillator circuit being grounded, a voltage divider connected in said oscillator tank circuit between said intermediate connection point on said oscillator inductance and the other terminal of said oscillator circuit, said voltage divider comprising a plurality of series connected condensers between the cathode of said first electron tube to said oscillator circuit and said intermediate connection point of said oscillator inductance having a negative temperature coefficient and mounted in close proximity to said tube to be affected by the heat of the cathode of said tube, the total series capacity of said series connected condensers having a value function of the temperature fluctuations of the electrodes of said oscillator circuit to compensate for frequency drift due to such temperature fluctuations, a mixer circuit including a tunable circuit comprising a second inductance and a second variable condenser connected across said second inductance for tuning said tunable circuit to a desired incoming frequency, a second electron tube having a cathode grid and anode, said tunable circuit being connected to the grid of said second tube, and circuit connections from a connection between the two of said series connected condensers to the cathode of said second electron tube.

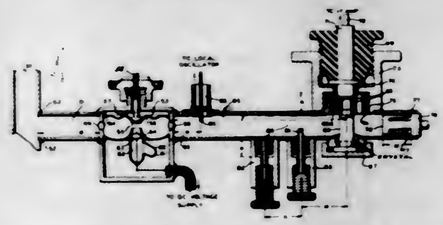
2,664,502

ULTRAHIGH-FREQUENCY MIXER

Shepard Roberts, Cambridge, Mass.

Application June 23, 1945, Serial No. 601,160

5 Claims. (Cl. 250—20)

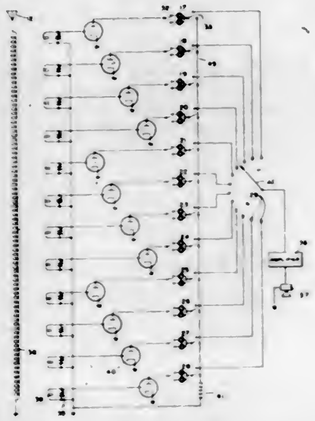


1. A mixer adapted to use a crystal cartridge, comprising a wave guide having diametrically opposed openings in its walls, a hollow structure extending through one of said openings and projecting outwardly from said guide, a rod projecting through said hollow structure having a clip adjacent the guide for holding one end of said crystal cartridge, a screw cap covering the other of said openings, and adapted to connect the other end of said crystal cartridge to the adjacent wall of said wave guide, adjacent abutments on the inside of said hollow structure and on said rod, a layer of polystyrene tape separating said abutments to form a by-pass condenser therebetween, a plug threadably connected to the inner wall of said hollow structure pressing against the abutment on said rod and insulated therefrom to secure said rod in said hollow structure, a cylindrical sleeve positioned between said clip and said hollow structure and spaced from both, a flange on one end of said sleeve and connecting said sleeve to said hollow structure adjacent the wall of said guide, said sleeve being in length substantially one quarter the wave length of the energy to be mixed and thereby effectively providing a short circuit between said clip and the adjacent wave guide wall for said energy.

2. In combination, a wave guide, means for providing reactance in parallel with said guide comprising, a rod extending into said guide through a circular opening in a side wall of said guide, said opening being of a diameter substantially larger than that of said rod, a cylindrical hollow structure attached to said guide and concentric with said opening in said guide, a cylindrical sleeve disposed concentrically between said rod and said hollow structure and spaced from both, a flange on one end of said sleeve and electrically connecting said sleeve to said hollow structure adjacent to the wall of said guide, the inner diameter of said cylindrical hollow structure being greater than the outer diameter of said sleeve, said sleeve being in length

substantially one quarter the wave length of the energy being transferred in said guide and thereby effectively providing a short circuit at said opening in said guide for said energy.

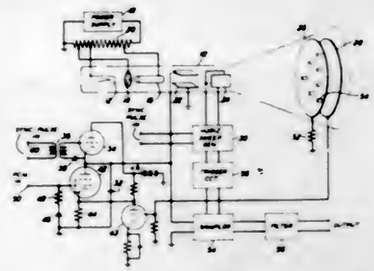
2,664,503
INSTANTANEOUS AUTOMATIC MONITOR
Daniel J. De Loi, Philadelphia, Pa.
Application October 16, 1945, Serial No. 622,647
1 Claim. (Cl. 250—20)
(Granted under Title 35, U. S. Code (1952), sec. 266)



An electronic monitor unit for detecting plural stations simultaneously, a panel, a plurality of visual signal means mounted on the panel for observance by a user, circuit means connected with said signal means for deriving plural individual signals from predetermined extraneous stations simultaneously, and secondary circuit means for converting the signals into audible responses for each of said stations specifically coordinately with said circuit means, and aerial means for receiving signals and transferring same to said circuits in predetermined relation, means for adjustably controlling said circuit means selectively, a plural rotatable contact switch connected with said circuit means for selectively arranging said circuit means whereby each visual signal may be coordinated through said secondary circuit means to become associated with a controllable audible signal for each station without interfering with the visual indication of signals from other stations, and means for supporting and correlating said panel, means and switch.

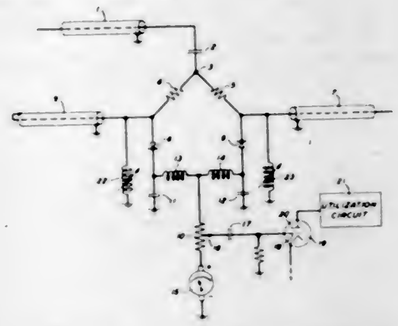
2,664,504
CATHODE-RAY DECODER FOR PULSE CODE MODULATION
William R. Bennett, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 11, 1950, Serial No. 155,338
8 Claims. (Cl. 250—27)

1. In a decoder for code groups of a fixed number of elements each of a plurality of values and in one value representing a fixed portion of the amplitude of a message wave sample, a cathode-ray tube, means for producing a beam of electrons therein, an array of targets arranged in columns corresponding to the elements of the code, means for sweeping the beam to fall within each column during receipt of the code element corresponding thereto, means for deflecting the beam at right angles to the sweep direction in response to code pulses of the one value, means effective when the beam is directed at a target to interrupt deflection of the beam only in the



column in which the target is located, and means for producing a quantity representative of the deflection of the beam after its deflection to the target corresponding to the final code element of the group.

2,664,505
FREQUENCY MODULATION DETECTOR
Uriah S. Berger, Rockaway, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 26, 1951, Serial No. 238,672
5 Claims. (Cl. 250—27)



1. A balanced discriminator network for detecting frequency-modulated high-frequency carrier waves having a wide frequency-deviation band, said discriminator network comprising two parallel paths each including in series a resistance and a distributed reactance, one of said distributed reactances having a frequency characteristic which is the inverse of that of the other reactance, said resistances and reactances being proportioned to provide an input impedance for said discriminator network that is a constant resistance at all frequencies of the applied waves, two rectifiers each connected across a different one of said reactances, an output circuit connected to said rectifiers, and control means for increasing the degree of linearity of the operating characteristic of said discriminator network and for producing a zero current condition in said output circuit when said applied waves are at mid-band frequency, said control means comprising two adjustable inductances each connected across a different one of said rectifiers.

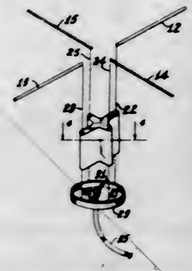
2,664,506
ANTENNA FOR VEHICLE MOUNTING
William J. Race, Franklin Park, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application July 6, 1950, Serial No. 172,363
5 Claims. (Cl. 250—33)



1. An antenna structure for use on a vehicle including an antenna element and a mounting for supporting the same from a wall of the vehicle at an opening therein, with said antenna element being held at various angles with respect to said wall, said mounting including in combination, top and bottom base members positioned on opposite sides of said wall, said base members having apertures therein and having boss portions for positioning the same with respect to said opening, a sealing gasket provided between said top member and said wall, said top member having a concave upper surface, an annular tubular member having a spherical surface resting on said concave upper surface of said top member, said annular concave upper surface having a smaller radius of curvature than said spherical surface of said tubular member whereby two annular lines of engagement are provided between said top member and said tubular member, said bottom member having a lower curved surface, said antenna element having a portion extending through said base members and said tubular member and having a shoulder portion and a threaded portion, a cup washer positioned between said shoulder portion of said antenna element and said lower curved surface of said bottom member, said threaded portion of said antenna element extending adjacent said tubular member, and securing means having threads engaging said threaded portion for holding said tubular member against said top member and clamping said top and bottom members on opposite sides of said wall, said securing means having a collar portion adapted to be closely fitted within said tubular member in the assembled relation.

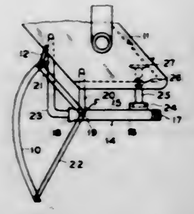
2,664,507
SIMPLIFIED ELECTRICALLY STEERABLE ANTENNA
Frank Mural, Drexel Hill, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application February 1, 1950, Serial No. 141,617
2 Claims. (Cl. 250—33.55)

1. A steerable antenna system having a pair of colinear energy receiving elements each having two centrally located electric terminals for connecting to a transmission line, a four terminal resistive mesh network, and a transmission line comprising an elongated dielectric member of substantially cruxiform cross section and two pairs of conductors embedded in said dielectric member, each conductor being located in an arm of the cruxiform structure, the conductors of each pair of said conductors being



connected individually at one end to said receiving elements and at the other end to alternate terminals of said resistive mesh network.

2,664,508
ANTENNA
William Sichak, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application July 9, 1945, Serial No. 604,629
8 Claims. (Cl. 250—33.65)

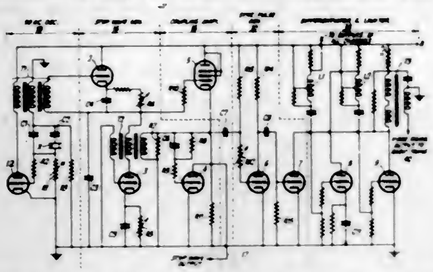


1. A directive antenna comprising a source of directional radio wave energy, reflector means to reflect said energy in a pattern that varies as the square of the cosecant of an angle that is measured from the axis of the reflector means, and means for shifting said pattern with respect to said axis, said last named means comprising means for adjusting the angular positions of said source and said reflector with respect to each other.

2,664,509
PULSE MULTIPLEX COMMUNICATION SYSTEM
Bertram Trevor, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 9, 1948, Serial No. 1,331
5 Claims. (Cl. 250—36)

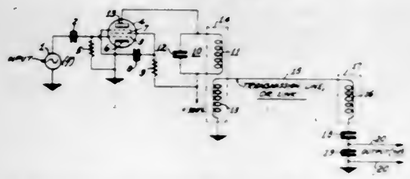
1. A crystal controlled pulse oscillator including an electron discharge system having cathode, control and anode electrodes, a transformer having one winding connected to said anode electrode and another winding connected to said cathode electrode, a series circuit comprising a capacitor and an impedance element capable of passing direct current connected across said other winding, a connection from the junction of said capacitor and said resistor to said control

electrode, a further series circuit comprising an element having a capacitive reactance and a



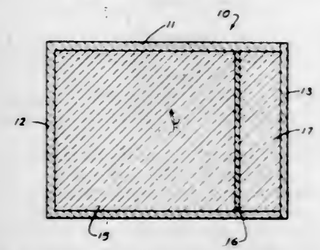
piezo-electric device shunted across said capacitor.

2,664,510
FREQUENCY MULTIPLIER CIRCUIT
John S. Russo, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application October 12, 1950, Serial No. 189,728
4 Claims. (Cl. 250—36)



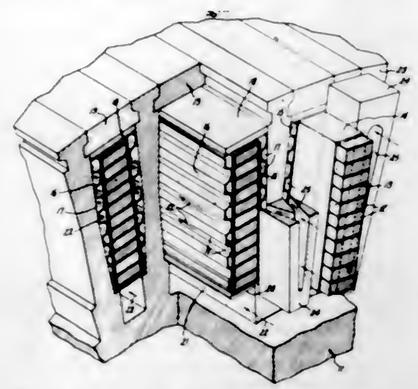
1. A frequency multiplier circuit comprising a parallel resonant circuit narrowly tuned to the single desired output frequency, means for shock exciting said circuit with a frequency which is a sub-multiple of said output frequency, a coil coupled inductively to said circuit, a resonant circuit narrowly tuned to said single output frequency, output connections coupled to said last-named resonant circuit, and means for connecting said last-named resonant circuit across said coil through connections devoid of concentrated impedance.

2,664,511
DOSIMETER
Anthony M. Moos, Hillsdale, N. J., assignor to Patterson, Moos & Company, Inc., Long Island City, N. Y., a corporation of New York
Application November 1, 1949, Serial No. 124,910
5 Claims. (Cl. 250—71)



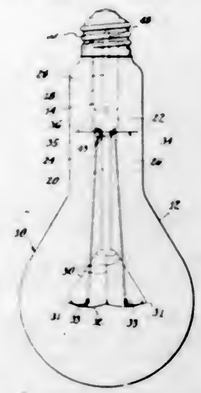
1. A dosimeter for gamma radiation comprising a crystal fluorescent to gamma radiation and a coating of photochemically sensitive material, said material including agents chromatically sensitive to the fluorescent energy emitted by said crystal.

2,664,512
DYNAMOELECTRIC MACHINE CORE AND WINDING VENTILATION ARRANGEMENT
Edson D. Huntley, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application August 30, 1952, Serial No. 307,185
3 Claims. (Cl. 310—64)



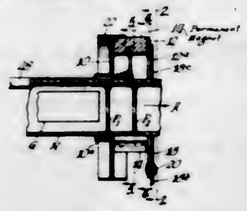
1. In a dynamoelectric machine core member having winding slots provided with insulated winding elements, the combination of a metallic sheath intimately bonded to the side surfaces of the insulation of the winding element in each slot, a corrugated metallic convector disposed at each side of the winding element in each slot and having portions intimately bonded to a side surface portion of said sheath, each convector cooperating with the slot side walls and said sheath to provide ventilating passages, and means for forcing a ventilating medium through said passages.

2,664,513
METALLIC HEAT SHIELD FOR INCANDESCENT LAMPS
Donald C. Morgan, Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 26, 1951, Serial No. 248,377
4 Claims. (Cl. 313—43)



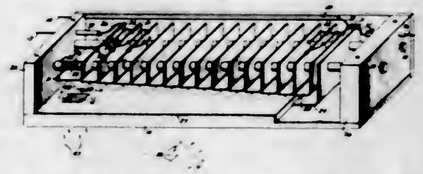
1. An incandescent lamp having a vitreous envelope, a filamentary mount sealed to said envelope and an inert gas fill; said filamentary mount comprising a vitreous stem with a vitreous press, an arbor and a plurality of leading-in conductors, a filament and a heat reflector assembly on said stem; said reflector assembly comprising a circular spring steel heat shield provided with slitted spring-tension fingers in the center thereof and frictionally gripping said arbor to prevent movement of said heat shield in a direction away from said vitreous press.

2,664,514
MAGNETIC FOCUSING MECHANISM
Sol L. Reiches, Cleveland, and Donald Paul Ingle, Defiance, Ohio, assignors to All Star Products, Inc., Defiance, Ohio, a corporation of Ohio
Application March 10, 1952, Serial No. 275,807
6 Claims. (Cl. 313—75)



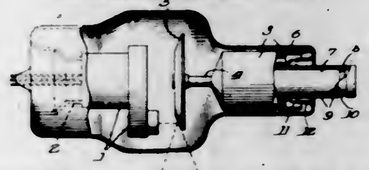
1. A magnetic focusing device for a cathode ray tube having a neck within which are mounted a pair of spaced internal magnetic poles, the focusing device comprising; a pair of spaced annular magnetic pole pieces, magnets sandwiched between the pole pieces and sustaining the same in spaced positions, one of the annular magnetic pole pieces having an aperture substantially the size of the neck of the tube and an inner cylindrical flange, the other of the annular magnetic pole pieces having an aperture substantially larger than the neck of the tube, the annular magnetic pieces being spaced so that when said inner cylindrical flange is in registry with one internal pole said other annular magnetic pole piece is outboard the other internal pole, and a slide pole piece mounted on said other pole piece for universal sliding movement and having an aperture smaller than the aperture of said one pole piece.

2,664,515
MAGNETIC ELECTRON MULTIPLIER
Lincoln G. Smith, Center Moriches, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application June 22, 1951, Serial No. 232,893
6 Claims. (Cl. 313—105)



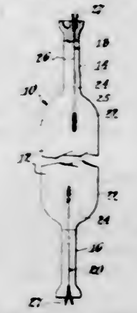
1. A magnetic electron multiplier for the detection of moving charged particles in a homogeneous magnetic field which comprises an electrically conductive plate located in said magnetic field and parallel to the lines of flux of said field, a plurality of secondary electron emissive dynodes located in said field and disposed in echelon parallel relation with respect to said plate, means for establishing a uniform electrostatic field between said dynodes and said conductive plate, said electrostatic field being perpendicular to said magnetic field, means for causing said moving charged particles to impinge on the dynode most remote from said conductive plate whereby secondary electrons are produced which are attracted and amplified by the remaining dynodes in successive steps and means for collecting the electrons produced by the last dynode.

2,664,516
ELECTRICAL HIGH-VACUUM DISCHARGE TUBE
Theodor Zimmer and Eckhard Fenner, Erlangen, Germany
Application July 23, 1951, Serial No. 238,114
Claims priority, application Germany August 19, 1950
10 Claims. (Cl. 313—149)



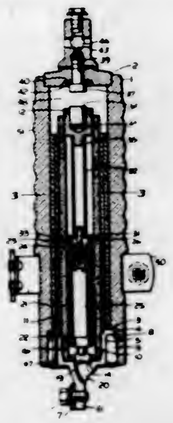
1. Electrical high-vacuum discharge tube having an envelope and a rotary electrode forming a unit including a rotor and a carrier for said rotor, and a device for disposing said electrode unit in said tube, said device comprising a mounting member extending from said carrier, a potlike receiving member which is bonded to said envelope at one end thereof prior to disposing said electrode unit therein, said potlike receiving member forming part of the envelope wall at the corresponding end thereof and forming a recess for receiving said mounting member, and means for mechanically fixedly securing said mounting member in its position in said potlike receiving member.

2,664,517
TIPLESS QUARTZ LAMP
Charles Wiener, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 27, 1952, Serial No. 273,745
3 Claims. (Cl. 313—213)



1. A tipless mercury vapor lamp for photoprinting and photochemical service comprising a vitreous envelope, provided with elongated end portions, an ionizable medium for supporting a discharge, oppositely disposed electrodes in said envelope between which a discharge occurs, leading in conductors for said electrodes, at least one of which has a refractory metal ribbon embedded in a fused mass of vitreous material produced from a double-bore tube.

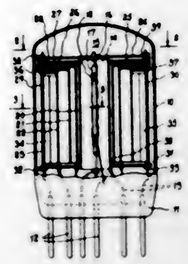
2,664,518
EXPULSION TYPE LIGHTNING ARRESTER
Tausias Irven Eldridge, Jr., Brookline, and Walter H. Young, Willow Grove, Pa., and Fred G. MacRae, La Grange, Ill., assignors to Electric Service Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 26, 1951, Serial No. 223,089
7 Claims. (Cl. 313—231)



1. A lightning arrester comprising an insulating housing; a line terminal assembly including an electrode in said housing and at line potential when in use; an intermediate assembly including a fiber tube within and spaced from the interior periphery of said housing and also including an electrode co-acting with the first named electrode to form an isolating gap; a ground terminal assembly including an electrode complementary to and spaced from said second named electrode and also including a grounded conductor in the space between said fiber tube and the interior periphery of said housing and reenforcing said tube; said second named electrode projecting into said tube such distance that the sum of the flash-over distances across said isolating gap and between said second and third named electrodes is less than the flash-over distance through said space from said first named electrode to the nearest part of the ground terminal assembly, and said housing having an aperture venting said space without passage through said tube of ions emanating from said gap electrodes; and a barrier to the formation of any ion path connecting either of said gap electrodes with said ground terminal assembly through said space.

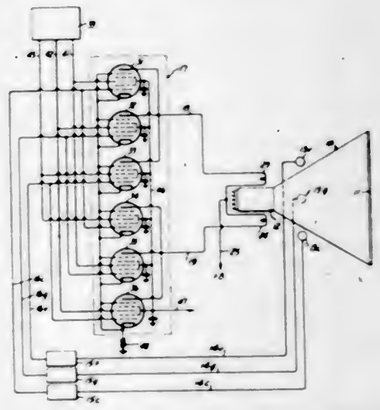
2,664,519
MOUNT ASSEMBLY FOR ELECTRON TUBES
Harry K. Ishler, Lansdale, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application February 11, 1952, Serial No. 271,029
12 Claims. (Cl. 313—261)

1. An electrode assembly for electron tubes and the like, comprising in combination, a plurality of radially spaced electrodes, and means to maintain said electrodes accurately spaced, said means including a plurality of spaced insulator discs each having a central opening which closely fits around and engages the end of only a corresponding one of said electrodes, said electrodes having their corresponding ends staggered longitudinally with relation to each other and correlated with the spacing between



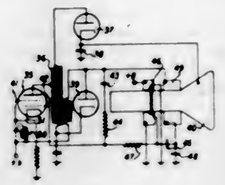
said discs whereby the said end of each electrode contacts only a corresponding one of said discs.

2,664,520
COLOR TELEVISION RECEIVING SYSTEM
Jacob H. Wiens, Redwood City, Calif.
Application February 4, 1952, Serial No. 269,836
2 Claims. (Cl. 315—10)



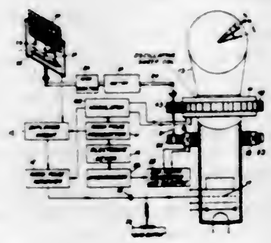
1. In a color television receiving system, a cathode ray tube having a screen provided with color phosphors distributed in parallel lines, circuit means connected to the tube for sweeping the beam of the tube in the direction of said lines, circuit means connected with said tube for cyclically deflecting the beam in a direction laterally of said lines, to thereby track the beam successively over lines of the screen which have phosphors of different color, and means responsive to light from screen lines closely adjacent the opposite side of the line being tracked for modifying the deflection of the beam to correct for tracking inaccuracy, said last means including a plurality of photoelectric tubes, one tube being responsive to light from a screen line closely adjacent the line being tracked and another tube being responsive to light from a screen line adjacent the other side of the line being tracked, electronic means for deriving currents dependent in value upon light excitation of said photoelectric tubes, and means for utilizing such currents to correct for tracking inaccuracy, said last means including supplemental electromagnetic deflecting coils associated with the tube and to which said currents are applied.

2,664,521
DEFLECTION CIRCUITS
Kurt Schlesinger, Maywood, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application November 7, 1951, Serial No. 255,170
19 Claims. (Cl. 315—22)



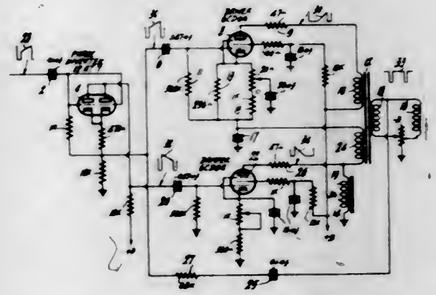
1. In a television receiver having a cathode ray picture tube, a self oscillating horizontal sweep power output stage including in combination, a horizontal sweep power output tube having control grid and plate electrodes, a horizontal sweep output transformer connected to the plate electrode of said tube, said transformer having output terminals, horizontal deflection coil means for deflecting the ray of said picture tube, a resonant circuit tuned to the horizontal sweep frequency, means connecting said resonant circuit and said deflection coil means in series across said output terminals, a first regenerative feedback path connecting the pulse voltage in said transformer to said control grid of said tube, and a second regenerative feedback path connecting the sine wave voltage developed in said resonant circuit to said control grid of said tube to thus provide a composite regenerative feedback and cause the output stage to be self-oscillatory.

2,664,522
OSCILLOGRAPH SWEEP SYSTEM
Robert M. Page, Camp Springs, Md.
Original application April 9, 1942, Serial No. 438,321. Divided and this application June 13, 1952, Serial No. 293,489
4 Claims. (Cl. 315—24)
(Granted under Title 35, U. S. Code (1952), sec. 266)



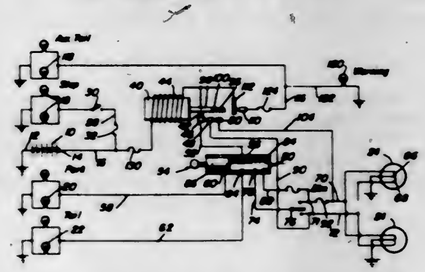
1. In combination, an oscillograph tube, a sweep circuit for producing a radial line sweep on said oscillograph, a magnetic circuit associated with said oscillograph, and means applying varying currents of alternate polarity to said magnetic circuit for producing an alternating magnetic field of continually varying strength within said oscillograph whereby the sweep line continually oscillates.

2,664,523
ELECTROMAGNETIC DEFLECTION GENERATOR
Joe Dewey Spradlin, Mount Ephraim, N. J., and Fred Himelfarb, Brooklyn, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application November 30, 1951, Serial No. 259,102
9 Claims. (Cl. 315—27)



1. An electromagnetic deflection scanning circuit comprising in combination a yoke coil, a driver tube, a damper tube, and a transformer having separate windings connected to each of said yoke coil, said driver tube, and said damper tube, said windings of said transformer connected respectively to said driver tube and said damper tube being connected in series with respect to direct current and polarized such that the direct current magnetization caused by said damper tube winding opposes the direct current magnetization caused by said driver tube winding.

2,664,524
AUTOMATIC LIGHTING CIRCUIT
Robert E. Hall, Larkinsville, Ala.
Application September 26, 1952, Serial No. 311,738
11 Claims. (Cl. 315—83)



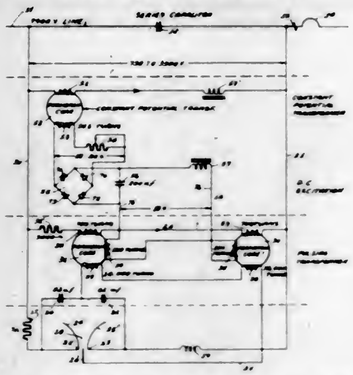
1. In a vehicle lighting system having tail lights, parking lights, stoplights and dual beam headlights, a source of electric energy and circuit means for connecting said lights to said source, an automatic protective device comprising a thermostat, a heating coil for said thermostat, a movable contact on said thermostat, a plurality of fixed contacts on said thermostat, said heating coil being connected between said source and said movable contact, said heating coil being operative under normal current to said lighting system to maintain said movable contact in engagement with the first of said fixed contacts and operative on over-current to successively move said movable contact into engagement with said fixed contacts, a control switch connected in series with said first contact.

2,664,525

SERIES CAPACITOR PROTECTION

Edward John Diebold, Philadelphia, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 16, 1950, Serial No. 144,571
7 Claims. (Cl. 317—12)



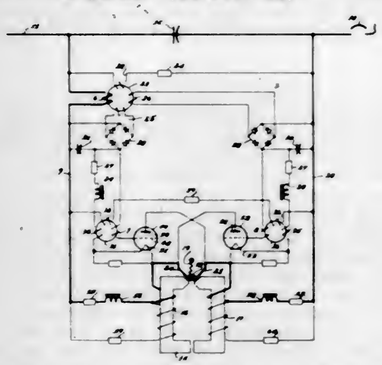
1. In a series capacitor protective system for an alternating current circuit having a series capacitor connected therein, a bi-pass circuit around said capacitor including a discharge device having main electrodes and a control electrode for breaking down said discharge device, a reactor having a main winding, said reactor main winding connected in parallel with said series capacitor, a biasing winding connected to bias said reactor to a saturating value at which the cyclical load currents flow from said protected circuit does not change the flux in said reactor, the currents from said protected line when they exceed load values producing sudden flux changes in said reactor a secondary winding for said reactor and circuit connection from said secondary winding to said control electrode energized when the flux in said reactor changes for effecting a breakdown of said main electrodes to provide a bi-pass circuit through said discharge device around said series capacitor.

2,664,526

SERIES CAPACITOR PROTECTOR

Edward John Diebold, Ardmore, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 26, 1950, Serial No. 192,190
1 Claim. (Cl. 317—12)



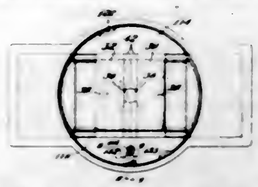
A protecting system for protecting a capacitor in an alternating current power system comprising a relay having windings and an armature therefor normally biased to disengaged position, a multielectrode electron tube having a control electrode, circuit connections from said power system to said windings with said electron tube connected in series therewith, a reactor having a first winding, circuit connections from said protecting system and said power circuit to said reactor first winding, said reactor having a second winding, a source of direct current, circuit connections from said direct current source to said second winding for applying direct current thereto for biasing said reactor to a saturation value at which said reactor is non-responsive to the normal current swings in said power circuit for different load current values, said first reactor winding being energized from said power circuit for energizing said reactor in response to a load swing in said power circuit of the value in excess to the normal load value of the circuit, said reactor having a secondary winding energized by said last mentioned response, circuit connections from said secondary winding to said control electrode for energizing said electron tube, said electron tube when energized completing an energizing circuit for said relay winding and circuit connections including said armature in its engaged position, to said power circuit on opposite sides of said capacitor and controlled by the armature of said relay when said relay winding is energized for providing a by-pass circuit around said capacitor.

2,664,527

ADJUSTABLE ELECTROMAGNET AND COOLING MEANS THEREFOR

Flood Everett Reed, Jr., Belmont, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts

Application December 8, 1951, Serial No. 260,633
17 Claims. (Cl. 317—158)



1. An electromagnet for research purposes comprising two substantially conical core pieces of a low reluctance material axially arranged with their apexes in spaced relationship to form an air gap, a magnetizing winding disposed respectively about each of the core pieces, the magnetic circuit being completed by two cylindrical pieces, one end of each of which abuts the corresponding end of the other cylindrical piece, the opposite end of each cylindrical piece being integrally joined with the base of a respective conical piece so that the cylindrical piece encloses the associated winding to minimize the stray flux, and means for supporting said cylindrical pieces so that they are separable axially.

2,664,528

VACUUM-ENCLOSED SEMICONDUCTOR DEVICE

John P. Stelmak, Forest Hills, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application December 23, 1949, Serial No. 134,657
6 Claims. (Cl. 317—235)

1. A semi-conductor device comprising a semiconducting body, at least two rectifying electrodes in contact with said body, a low-resistance electrode consisting of a metallic member having a cross-section of substantially L-shape, said body being connected with and soldered to one portion of said member, a common electrode support of insulating material, a plurality of conductors hermetically sealed in and extending



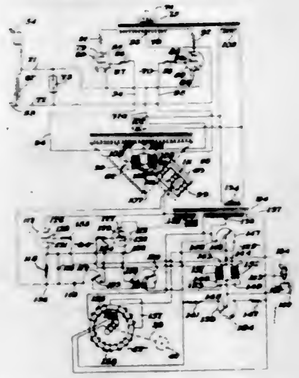
through said support in spaced apart relation, said rectifying electrodes being secured to individual ones of said conductors, one of said conductors forming a loop secured to another portion of said member, and an evacuated air-tight housing having a hermetic seal with said support and enclosing said body and said electrodes.

2,664,529

ELECTRIC MOTOR SYSTEM OF WIRE BLOCK CONTROL

William Few and John D. Sauter, Cleveland Heights, Ohio, assignors to The Clark Controller Company, Cleveland, Ohio, a corporation of Ohio

Application August 12, 1948, Serial No. 43,787
7 Claims. (Cl. 318—7)



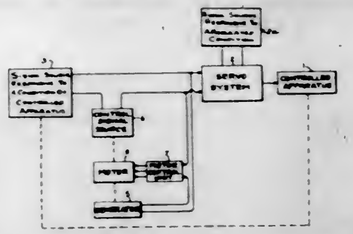
1. A control system for motors driving a filar element, said system comprising in combination a plurality of motor field windings, the energization of which controls the speed of each of a plurality of successive portions of the filar element being supplied to a portion in advance, variable-ratio transformers each having a rotor the position of which determines the voltage ratio, each rotor being actuated by tension on said filar element at one of the successive portions thereof, vacuum-tube type direct current controllers each having control electrode means excited by the output of one of said variable ratio transformers, degenerative resistors for each of said controllers, anti-hunt differentiating circuits interposed between said variable-ratio transformer outputs and the control electrodes, saturable reactors each having a direct-current winding supplied by one of said direct-current controllers, resistance-reactance type phase adjusters, each having a variable-reactance arm comprising one of said saturable reactors, thyratron type variable-current rectifiers each having control electrode means excited by the output of one of said phase adjusters, said thyratron type rectifiers each having output connections supplying one of said field windings, whereby the angular position of each said rotor is determined by the tension of one of the successive portions of the filar element, and in turn determines the voltage output of the associated variable voltage transformer, the degree of saturation of the associated saturable reactor, the phase angle of the control electrode means of the associated thyratron type rectifier, the energization of the field winding controlling the speed of such portions of the filar element and therefore determines the speed thereof, the connections being such that decreased tension brings about decrease in driving speed and an increasd tension brings about the increase in driving speed, whereby the speeds of all portions of the filar element except for the portion in advance are automatically adjusted to supply the filar element at the speed required by the speed of the portion of the filar element in advance.

2,664,530

AUTOPILOT CONTROL SYSTEM

Charles M. Young, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 17, 1948, Serial No. 39,347
17 Claims. (Cl. 318—19)



1. A condition responsive control system comprising a member movable from a normal null position to control said condition, motor means for moving said member from said null position throughout a range of condition controlling positions, said position having a variable trim relation to the desired value of said condition, means for generating a first signal responsive to deviation of said condition from a predetermined normal value, means for generating a second signal responsive to displacement of said member from said null position, means for combining said first and second signals in opposing relations and utilizing the resultant signal to control said motor means, and time element means selectively responsive to non-transient presence of said first or second signal to generate a bucking signal substantially equal and opposite thereto.

2,664,531

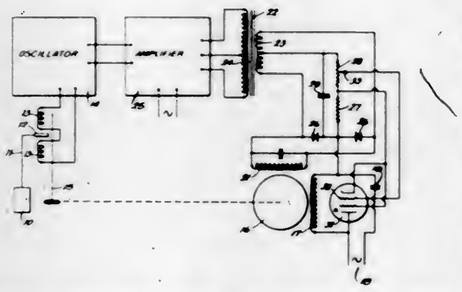
MOTOR CONTROL CIRCUIT

Robert T. Nakasone, Chicago, Ill., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

Application March 18, 1952, Serial No. 277,129
7 Claims. (Cl. 318—31)

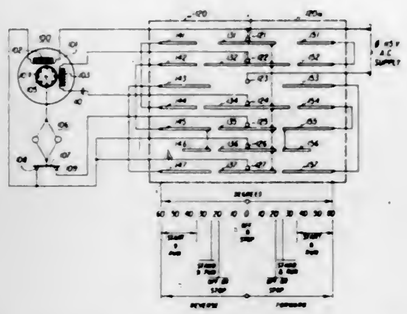
1. A control circuit for a reversible motor having a main winding and a control winding supplied with alternating currents whose phase re-

lationship determines the direction of rotation of the motor, said control circuit comprising a supply circuit connected to the control winding to supply alternating current of reversed phases thereto, a pair of rectifiers connected in series across the supply circuit and reversely poled, a



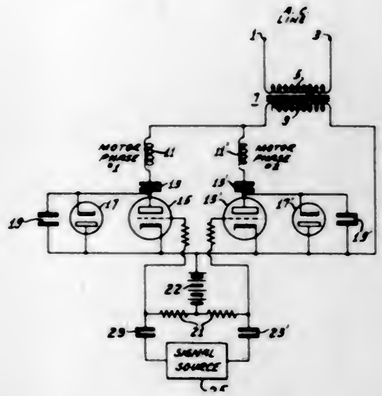
resistor connecting the point between the rectifiers to a mid-point in the supply circuit, and an electron discharge tube controlled by the voltage drop across the resistor and connected to one of the motor windings to produce a braking current therein when there is no flow of current through the resistor.

2,664,532
CONTROL CIRCUITS FOR INDUCTION MOTORS
Alexander J. Lewus, Cicero, Ill.
Application January 15, 1952, Serial No. 266,559
10 Claims. (Cl. 318—203)



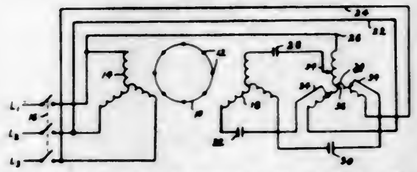
1. In a control circuit including an induction motor provided with a stator having angularly displaced main and auxiliary windings and a reversible rotor having a squirrel-cage winding, a capacitor, a control switch, means responsive to a starting condition of said rotor in either direction for operating said control switch into its closed position, and a source of single phase alternating current supply; the combination comprising a circuit controller provided with an off position and forward and reverse positions respectively disposed on opposite sides of said off position, means for selectively operating said controller between its different positions, means responsive to operation of said controller from its off position into its forward position for connecting said main winding to said source and for connecting said auxiliary winding and said capacitor and said control switch in series relation to said source so that said main and auxiliary windings are phased to effect forward starting of said rotor, means responsive to a forward running condition of said rotor for operating said control switch into its open position so that forward running of said rotor is effected by said main winding, means responsive to operation of said controller from its off position into its reverse position for connecting said main winding to said source and for connecting said auxiliary winding and said capacitor and said control switch in series relation to said source so that said main and auxiliary windings are phased to effect reverse starting of said rotor by said main and auxiliary windings, means responsive to a reverse running condition of said rotor for operating said control switch into its open position so that reverse running of said rotor is effected by said main winding, means responsive to operation of said controller from either one of its other positions back into its off position for disconnecting said auxiliary winding and said capacitor and said control switch in series relation from said source and for completing a short across said auxiliary winding and said capacitor in series relation so as to effect dynamic braking of said rotor and then for disconnecting said main winding from said source, and additional means responsive to operation of said controller from its off position into either of its other positions for interrupting said short across said auxiliary winding and said capacitor in series relation.

2,664,533
ELECTRONIC MOTOR CONTROL CIRCUIT
Herman P. Raab, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application April 17, 1951, Serial No. 221,384
4 Claims. (Cl. 318—221)



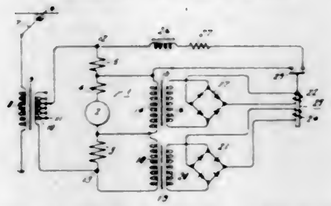
1. A control circuit for a two-phase motor having a pair of field windings, said circuit comprising connection means for coupling a first source of alternating potential to said motor windings, a pair of thermionic tubes parallel connected in opposite polarity and in series with each of said windings, a capacitor in series with each of said windings and tube pairs, a phasing capacitor in parallel with each of said tube pairs, and connection means for a second source of alternating potential for coupling control signals from said second source to an electrode of a tube of each of said pairs for shunting one of said phasing capacitors to load said motor to produce rotation thereof.

2,664,534
VARIABLE SPEED ALTERNATING CURRENT MOTOR
Samuel Needleman and Arthur G. Wise, Dayton, Ohio, assignors to Louis R. Mahrt and D. Robert Laughter, as trustees for Standard Dayton Corporation, Dayton, Ohio, a corporation of Ohio
Application January 20, 1950, Serial No. 139,588
10 Claims. (Cl. 318—225)



1. In an adjustable speed regulating electric motor having a stator member and a rotor member, one of which has two polyphase windings, each having the same number of phases, the two windings being non-inductively connected, means for energizing one of said windings so as to establish a magnetic field for inducing relative rotation between said members, and means for electrically loading the other of said windings, said last named means comprising means for adjusting the loading so as to vary the speed of the motor over a wide range.

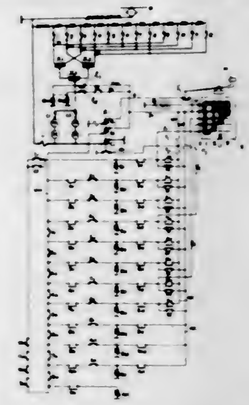
2,664,535
INTERPOLE SHUNTING MEANS FOR ALTERNATING CURRENT COMMUTATING MOTORS
Russell M. Smith, Ripley, N. Y., and Max W. Bellis, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application May 15, 1952, Serial No. 287,942
8 Claims. (Cl. 318—244)



1. In combination, a commutator-type dynamo-electric machine having an interpole winding connected in series with the armature of said machine, means connected to derive a first voltage proportional to the voltage across said armature, means connected to derive a second voltage proportional to the current flow in said armature, and means operable in response to a predetermined relationship of said first and second voltages connected to shunt said interpole winding thereby to improve the commutation of said machine.

2,664,536
EQUIPMENT FOR AUTOMATICALLY CONTROLLING SINGLE PHASE MOTORS
Leon Heidmann, Paris, France, assignor to Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France, a corporation of France
Application February 17, 1953, Serial No. 337,395
Claims priority, application France
February 29, 1952
9 Claims. (Cl. 318—390)

1. In equipment for automatically controlling single phase motors, a regulating transformer with a plurality of taps, a plurality of individual contactors each having an operating coil, main contacts and auxiliary contacts comprising interlocking contacts, holding contacts and transfer contacts, connections between the main contacts of the contactors and said taps respectively and connections between the main contacts of the contactors and said motors so that the closing of said main contacts connects said motors with the respective taps of said transformer, an acceleration relay having cooperating contacts, a master controller, and connections between the aforesaid elements comprising three wires connected with and excited by the master controller in all positions of said controller, the first of said wires being a starting wire which is connected with the operating coils of

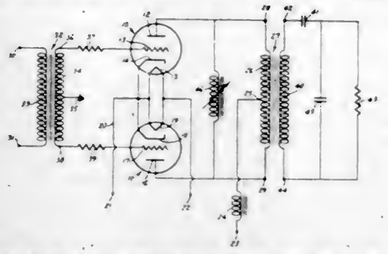


said contactors through said interlocking contacts which are connected in series to assure a predetermined order of closing of said contactors, the second of said wires being a holding wire which is connected to the operating coil of each contactor through the holding contacts of the respective contactor so as to hold the contactor closed after it has been closed by the starting wire, and the third of said wires being an opening wire which is connected on one hand with the operating coils through the respective transfer contacts and on the other hand with one of said contacts of the acceleration relay, the other of said cooperating contacts being connected with ground to ground said opening wire when the cooperating contacts of the acceleration relay are closed.

2,664,537
THYRATRON INVERTER CIRCUIT
Adolph Bunblasky, New Canaan, Conn., assignor to Sorensen & Company, Inc., Stamford, Conn., a corporation of Connecticut
Application February 21, 1950, Serial No. 145,371
2 Claims. (Cl. 321—18)

1. An inverter circuit for converting a direct current supply into an alternating current comprising; a plurality of gas-filled discharge devices, each of which contains a plate element, a cathode, and a grid electrode; an output transformer having a primary winding connected between the plate elements of the discharge devices; a manually adjustable magnetic-cored inductance connected across the primary winding of the output transformer; and means for applying a controlling alternating current voltage to the grid electrodes to cause the discharge devices to alternately conduct and thereby provide an alternating current output across the primary

winding and the inductance; the circuit characteristics of the primary winding, the discharge devices, and the adjustable inductance adjusted



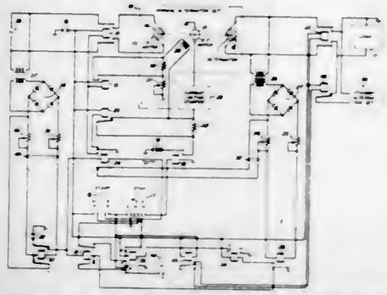
to provide a flux-density in the core of the inductance to operate in the region of magnetic saturation.

2,664,538

CURRENT SUPPLY APPARATUS

Harry H. Spencer, Springfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 12, 1951, Serial No. 246,267
5 Claims. (Cl. 322—9)



1. Means for driving a generator comprising an alternating-current motor, a direct-current motor having a field winding and an armature, means for mechanically coupling said alternating-current motor and said direct-current motor to said generator, a direct-current source, a first and a second resistor, a first circuit comprising in series said direct-current source, said first resistor and said armature, a second circuit comprising in series said direct-current source, said first resistor, said field winding and said second resistor, means for causing said direct-current motor to drive said generator comprising means for completing a short-circuiting path across said first resistor, and means for transferring the drive from said direct-current motor to said alternating-current motor comprising means for opening said short-circuiting path across said first resistor, means for completing a short-circuiting path across a portion at least of said second resistor and means for supplying current from an alternating-current source to said alternating-current motor.

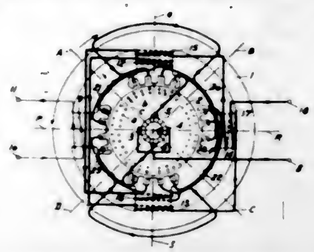
2,664,539

DYNAMOELECTRIC MACHINE

Jean François Gabriel Petit, Paris, France, assignor to Societe d'Exploitation de Brevets, Boulogne-sur-Seine, France, a corporation of France

Application March 31, 1949, Serial No. 84,523
Claims priority, application France April 6, 1948
6 Claims. (Cl. 322—65)

1. In a rotary direct-current machine having a field structure with a plurality of poles of alternate polarities and an armature with a plurality of brushes of alternate polarities, the combination of means for generating a circulating current between brushes of one polarity, whereby the armature is caused to produce a circulating current responsive armature reaction



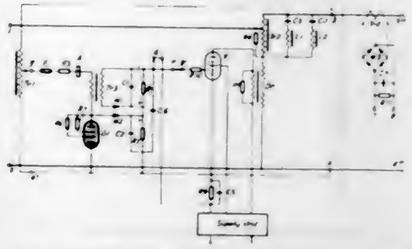
along the axis of two poles of the same polarity, and of a compensating-exciting winding energized by said circulating current and arranged on said field structure at one end only of said axis so as to act in the opposite direction to and with substantially the same strength as the said armature reaction.

2,664,540

AUTOMATIC REGULATOR OF HIGH SENSITIVITY FOR REGULATING ALTERNATING CURRENT VOLTAGES

Geza Emil Beszedics, Vienna, Austria, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application November 20, 1951, Serial No. 257,220
Claims priority, application Austria November 21, 1950
2 Claims. (Cl. 323—22)



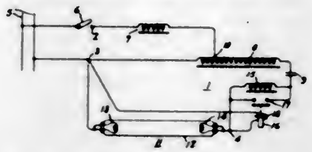
1. An automatic regulator of high regulation accuracy for alternating voltages, including a control member and a regulating member, said control member comprising a multi-electrode glow-discharge tube, a high transformation-ratio transformer having its primary winding connected in series with said tube, means applying the alternating voltage to be controlled across said transformer and tube, a portion of the applied voltage determined by the voltage across said tube being transformed to the secondary side of said transformer, the secondary voltage being equal to the product of the transformation-ratio times said portion of the applied voltage, means for rectifying the voltage across the output of said transformer, means for rectifying the voltage across the output of said tube, and means for comparing said rectified voltages and applying said compared voltages to said regulator, whereby the voltage to be controlled has been amplified by a value essentially equal to the transformation-ratio of the transformer.

2,664,541

ELECTRIC BALLAST

Wayne L. Henderson, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application November 24, 1950, Serial No. 197,344
4 Claims. (Cl. 323—45)



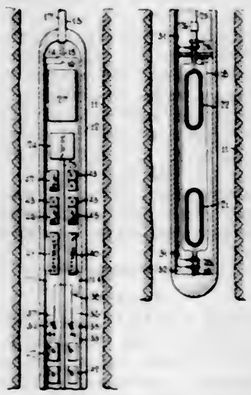
1. A stabilized output ballast for electric discharge devices comprising, in combination, a pair of input terminals, a pair of output terminals, a reactor winding, a transformer having primary and secondary winding sections, said reactor winding and said primary section being serially connected between said input terminals, a capacitor, said capacitor and said secondary section being serially connected exclusive of said reactor winding between said output terminals, a magnetic core for said reactor winding having a non-magnetic gap therein for preventing saturation and providing a linear magnetizing characteristic, and a magnetic core for said transformer having a saturable restricted section which saturates when discharge device current flows through said capacitor and said secondary section.

2,664,542

MAGNETIC WELL LOGGING APPARATUS

Ralph D. Lynn, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 24, 1952, Serial No. 300,694
5 Claims. (Cl. 324—8)



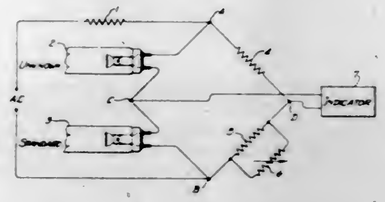
1. An apparatus for logging a bore hole comprising a case adapted to be lowered into the bore hole, a supporting framework mounted for rotation about a vertical axis in said case, means for rotating said framework, a pair of substantially identical coils supported by said framework and spaced vertically from each other, said coils lying in essentially the same plane, means connecting said coils in parallel opposition, means for determining the difference voltage generated by said coils upon rotation, means for determining the phase angle between said difference voltage and the voltage generated by one of said coils upon rotation, and means for recording the variations in said difference voltage and in said phase angle in correlation with depth of the apparatus in a bore hole.

2,664,543

THERMAL INERTIA LAMP CATHODE TESTING

Richard N. Thayer, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application August 9, 1950, Serial No. 178,526
8 Claims. (Cl. 324—20)



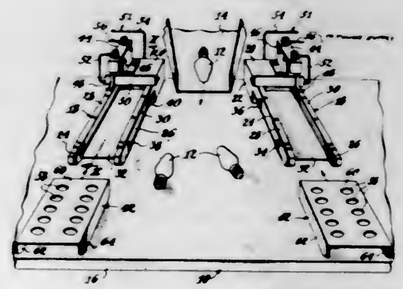
1. The method of determining a figure characteristic of the quantity of emission material on a resistive electrode for a discharge device by means of a Wheatstone bridge apparatus, said electrode having an appreciable temperature coefficient of resistance, which comprises the steps of balancing the bridge with said electrode in the unknown arm and a similar electrode having a known thermal inertia in the standard arm, energizing the bridge to cause said electrodes to tend towards a new thermal equilibrium, and measuring the maximum temporary unbalance of said bridge during the course of attaining said new equilibrium.

2,664,544

TESTING AND PACKING FIXTURE

George W. Caplis, Clifton, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 30, 1952, Serial No. 312,275
8 Claims. (Cl. 324—21)



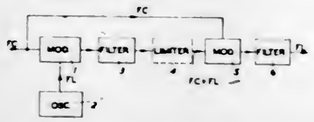
1. A testing and packing fixture for small incandescent lamps comprising a body provided with a pair of platform guide rails extending therefrom, means on each of said rails for electrically contacting the base shells of a group of lamps, means connecting the bottom portion of said rails for electrically contacting the base contact eyelets of said lamps, and means for completing an electrical testing circuit to said shell contact means and said contact eyelet means.

2,664,545

REDUCTION OF THE ANGLE-MODULATION OF AMPLITUDE-MODULATED OSCILLATIONS

Eric McPhail Leyton, London, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain

Application May 2, 1950, Serial No. 159,414
Claims priority, application Great Britain May 3, 1949
2 Claims. (Cl. 332—37)



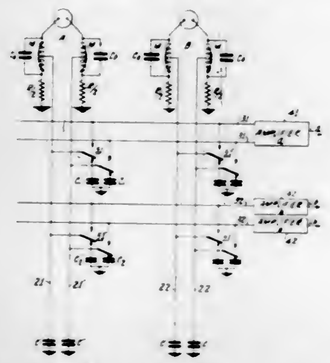
1. A circuit for removing angle-modulation, comprising a source of amplitude-modulated oscillations having undesired angle-modulation, means for generating oscillations of constant amplitude and of a constant frequency different from the frequency of said amplitude modulated oscillations, means for combining said amplitude-modulated oscillations with said constant frequency oscillations to provide further oscillations of frequencies which are the sum and difference frequencies of said modulated oscillations and said constant frequency oscillations, means for selecting one of said kinds of oscillations from said further oscillations, means for combining said selected oscillations with said amplitude-modulated oscillations to provide resultant oscillations at frequencies which are the sum and difference frequencies of said selected oscillations and said modulated oscillations, and means for selecting, from said resultant oscillations, oscillations at said constant frequency amplitude-modulated and substantially free from angle-modulation.

2,664,546

ELECTRIC SIGNAL DISTRIBUTION SYSTEM

Elmer Dudley Goodale, New Rochelle, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application May 20, 1950, Serial No. 163,140
2 Claims. (Cl. 333—8)



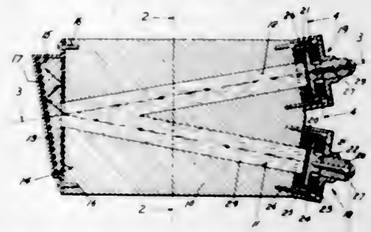
1. An electric signal distribution system including at least a pair of input terminals for connection to a balanced transmission line of given characteristic impedance, a pair of resistors having resistance values substantially equal to one-half of said characteristic impedance and having given terminals thereof connected together, a pair of networks each comprising a capacitor connected in parallel with a pair of series-connected mutually-coupled inductors individually interconnecting said input terminals to the remaining terminals of said resistors, two input bus conductors forming a balanced transmission line individually connected to the junctions between said inductors, at least two output bus conductors forming another balanced transmission line, at least two single-pole, double-throw switches having blades connected individually to said input bus conductors and given contacts connected individually to said output bus conductors, a number of capacitors of capacity values substantially equal to the input capacities of apparatus to be connected to said output bus conductors connected between the junction of said resistors and the remaining contacts of said switches, and further capacitors connected between said input bus conductors and the junction of said resistors.

2,664,547

DELAY LINE DEVICE

Harold N. Beveridge, Arlington, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application February 17, 1950, Serial No. 144,813
6 Claims. (Cl. 333—30)



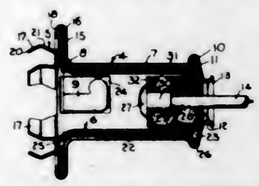
1. A signal translation device comprising a confined signal wave translation channel having signal input means cooperating therewith, a discontinuity positioned in said channel, said discontinuity having an impedance which differs from the characteristic impedance of said channel by an amount sufficiently small to permit substantial transfer of energy through said discontinuity, the angle of incidence of signal waves traveling in said channel to said discontinuity being less than the critical angle, and output means cooperating with said channel and adapted to be energized by signals reflected from said discontinuity.

2,664,548

LAMP SOCKET HAVING A RESILIENTLY MOUNTED CONTACT

Charles L. Hall, Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application April 13, 1950, Serial No. 155,674
1 Claim. (Cl. 339—60)



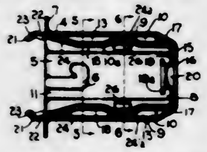
A lamp socket comprising: a tubular casing of rigid conducting material having an open lamp base receiving end and an apertured wire receiving end; an insert of resilient insulating material having a tubular portion in fitted sealing engagement within said tubular casing to provide sealing engagement with a lamp base to be disposed therein, a stud portion disposed within said tubular portion in concentric spaced relation and an annular connecting portion integrally joining said stud portion and said tubular portion adjacent the apertured wire receiving end of said casing, said stud portion extending for a portion of the length of said casing; and a contact member supported by said stud portion centrally within said casing and said tubular portion and having a connecting lead extending through said stud portion and said apertured wire receiving end, said casing having opposed lamp base engaging portions; said tubular portion of said insert having apertures on opposite sides to permit the opposed prongs of a bayonet-type lamp base to engage said opposed lamp base engaging portions, said insert and said casing having co-operating annular rib and annular groove portions.

2,664,549

LAMP SOCKET FOR SNAP FASTENER ENGAGEMENT WITH AN APERTURED SUPPORT

Wilmer H. Churchill, Wellesley, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application April 13, 1950, Serial No. 155,676
1 Claim. (Cl. 339—128)



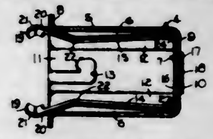
The lamp socket assembly comprising a body member formed from sheet metal and having a tubular portion and outwardly pressed oppositely disposed groove-forming portions, radially outwardly extending support engaging portions at one end of said tubular portion and a radially inwardly extending flange at the other end of said tubular portion, said groove-forming portions providing opposed grooves extending axially of said tubular portion, said grooves having side walls extending radially outwardly from the tubular portion and bottom walls displaced radially outwardly from the walls of such tubular portion, said grooves being open at said one end of said tubular portion and closed at said other end, a U-shaped member having spring arms and a connected bight portion disposed in said body member with the spring arms positioned in said groove forming portions and the bight portion positioned against the flange at said other end, intermediate portions of said spring arms being bowed outwardly and disposed adjacent to said bottom walls of said grooves, intermediate portions of the opposed side walls of said grooves being indented to provide opposed projections extending toward each other and disposed radially inwardly of the intermediate portions of said spring arms, said projections serving as attaching means in co-operation with said intermediate portions of said spring arms to secure said spring member to said body member and as fulcrum means for said spring arms, the free ends of said spring arms extending beyond said one end of said body member and including means for snap fastener engagement with an apertured panel to secure the socket assembly against said panel.

2,664,550

LAMP SOCKET PROVIDED WITH MEANS TO SECURE IT TO AN APERTURED PANEL

Forbes Howard, Grosse Pointe Farms, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application April 13, 1950, Serial No. 155,737
4 Claims. (Cl. 339—128)



1. A lamp socket comprising a casing having a tubular body portion opposed wall portions adapted for seating a lamp base, opposed lateral extensions on said body portion forming longitudinal grooves communicating with the interior thereof, said lateral extensions being positioned intermediate said well portions alternately about the circumference of said tubular body portion, spring arms disposed in said longitudinal grooves and secured to said body portion, said arms extending beyond an end of said body portion and provided with support-engaging prongs adapted for snap fastener engagement with an apertured support, said arms being movable within said grooves toward the interior of said casing to facilitate the snap fastener engagement of said prongs with such support.

2,664,551

LAMP BASE END CONTACT

Robert A. Kuebler, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application August 2, 1951, Serial No. 239,953
6 Claims. (Cl. 339—146)



1. A construction providing connections for an electric device comprising a lead-in wire and a thin metal contact member, said member having a generally circular aperture and two pairs of lips formed integrally with the said member and projecting outwardly from the rim of the aperture, the lips of one pair having bent outer end portions overlapping one another, said lead-in wire being clamped between said overlapped portions, and the other pair having end portions overlying those of said one pair.

2,664,552

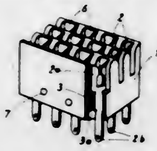
DEVICE FOR CONNECTION OF CABLES BY MEANS OF PLUGS AND SOCKETS

Eric Arvid Ericsson and Eric Axel Wiberg, Stockholm, and Erik Adolf Atterling, Enskede, Sweden, assignors to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden

Application June 11, 1951, Serial No. 230,924
Claims priority, application Sweden June 19, 1950
1 Claim. (Cl. 339—192)

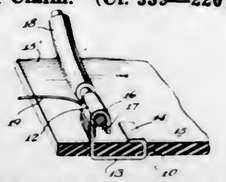
A multi-polar socket for the connection of two multi-conductor cables in cooperation with a multi-pronged plug having a quadrangular face

and planar plug prongs extending therefrom and positioned parallel to the long dimension of the quadrangular face, said socket being of insulating material and of parallelepiped shape and having a front face adapted to abut the multi-pronged plug and a back face at which the conductors of one of the multi-conductor cables are received, and recesses of rectangular shape corresponding in number to the conductors in the cables extending from the front face part way through the socket and holes extending from the bottoms of the respective recesses to the back face, and a contact element positioned in each of said recesses, said contact elements each being comprised by a planar body positioned diagonally of the recess and parallel to a diagonal of the



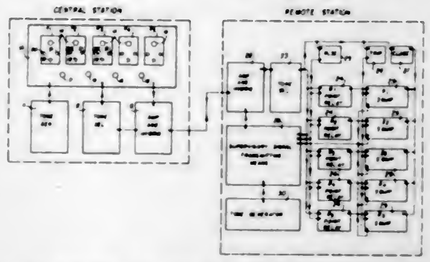
front face of the socket and including two parallel arms yieldingly facing each other and of lesser overall width than the diagonal dimension of the recess and terminating in tapered ends for guiding a prong on the multi-polar plug and having opposed abutting inwardly projecting extensions adjacent the tapered ends for receiving said prong, and said contact elements each having a narrow centrally formed extension positioned in the hole between the bottom of the recess and the back face of the socket with the outer end of said extension beyond the said hole being bent out of alignment with the central portion within the hole, whereby the contact element is retained in position in the socket and a lug is formed for connection thereto of one of the conductors from the last mentioned cable.

2,664,553
SOLDERING TERMINAL FOR ELECTRICAL WIRES
Hirsch Epstein, Chicago, Ill.
Application September 14, 1950, Serial No. 184,827
1 Claim. (Cl. 339—220)



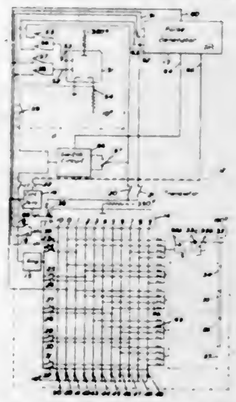
A soldering terminal for joining a coarse wire and a fine wire, said terminal being secured to a sheet member of insulating material and comprising a staple-like, substantially U-shaped, flat strip member of uniform width having its bridging portion engaged against one surface of the sheet member in face to face contact therewith, the legs of said strip member being of unequal lengths, the shorter leg having its free end bent parallel to the bridging portion and engaged against the opposite surface of the sheet member, the longer leg extending perpendicular to the sheet and having its free end formed with a reverse curved bend of at least 180° thereby forming a socket spaced from the said opposite surface adapted to receive said coarse wire, said longer leg having a straight portion between the socket and the said second surface of sufficient length to permit the wrapping of fine wire about said straight portion.

2,664,554
REMOTE-CONTROL AND SUPERVISORY CONTROL SYSTEM
John A. Doremus and Herbert C. Waterman, Chicago, Ill., assignors to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application April 19, 1951, Serial No. 221,916
20 Claims. (Cl. 340—163)



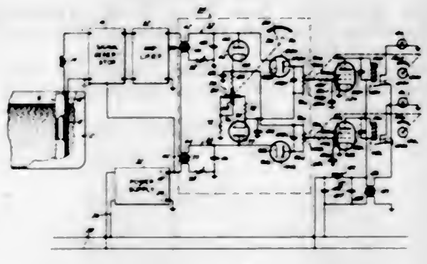
14. A system for indicating the operating condition of a plurality of items of equipment including in combination, a plurality of point relays individually associated with said items and operated when the operating condition of the associated item changes, generating means for producing a plurality of indicating signals each having different characteristics, an output circuit, a selector mechanism for sequentially deriving indicating signals from said generating means respectively representing the operating condition of each of said items, a first control circuit for actuating said selector whenever one of said point relays is operated, and a second control circuit for causing said selector to supply sequentially to said output circuit only such indicating signals corresponding to the aforesaid items whose associated point relays are operated.

2,664,555
MULTIELECTRODE GASEOUS-DISCHARGE TUBE CIRCUITS
David Gurney Arnold Thomas, Deerhurst-Walton, Gloucestershire, and Edmund Harry Cooke-Yarborough, Faringdon, Berkshire, England, assignors to The National Research Development Corporation, London, England
Application February 21, 1952, Serial No. 272,852
Claims priority, application Great Britain February 23, 1951
5 Claims. (Cl. 340—168)



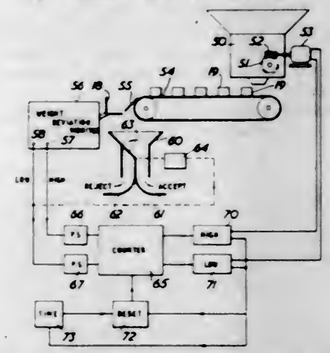
1. A circuit comprising a pulse generator, first switch means to direct a pulse train from the generator to move the discharge in either one or the other of first and second multi-cathode gaseous-discharge tubes, second switch means associated with the output cathode of the first tube to switch pulses occurring after the discharge reaches the output cathode to move the discharge in the second tube, means associated with the main cathodes of the second tube to mark any one of said cathodes to switch pulses via said second switch means occurring after the discharge reaches the marked cathode to move the discharge in the first tube, and identifying means, associated with the main cathodes of the second tube, to identify the cathode on which the discharge comes to rest.

2,664,556
FREQUENCY-SENSITIVE APPARATUS FOR INDICATING THE MAGNITUDE OF A CONDITION AND LIMIT INDICATION MEANS THEREFOR
Carl G. Sontheimer, Riverside, Conn., assignor to The Liquidometer Corporation, Long Island City, N. Y., a corporation of Delaware
Application July 22, 1950, Serial No. 175,448
13 Claims. (Cl. 340—207)



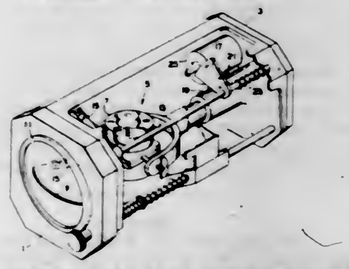
1. In a system responsive to a predetermined magnitude of a variable condition, wherein an electrical signal is generated, the frequency of which is a function of the magnitude of the condition, apparatus including a signal generator, the frequency of which is a function of the magnitude of said condition, a first frequency selective circuit coupled to said generator and producing a first alternating voltage, the magnitude of which is a function of the frequency of said generator, a second frequency selective circuit coupled to said generator and producing a second alternating voltage, the magnitude of which is a different function of the frequency of said generator, first rectifier means coupled to said first frequency selective circuit arranged to produce a first unidirectional voltage, the magnitude of which is a function of the magnitude of said first alternating voltage, second rectifier means coupled to said second frequency selective circuit arranged to produce a second unidirectional voltage the magnitude of which is a function of said second alternating voltage, high impedance resistive means connected in series between said first and second rectifier means, said first and second rectifier means being connected to pass unidirectional electric energy in a single direction through said resistive means, condenser means connected in parallel with said resistive means for storing the pulsating voltages from said rectifier means to produce a smooth direct potential across said resistive means, on-off control means connected to said resistive means, and a work unit responsive to said on-off control means.

2,664,557
WEIGHT DEVIATION TESTING DEVICE
John Adolph Sargrove, Shepperton-on-Thames, England, assignor to Sargrove Electronics Limited, London, England, a British company
Application June 20, 1952, Serial No. 294,760
Claims priority, application Great Britain June 20, 1951
8 Claims. (Cl. 340—213)



1. In an apparatus for manufacturing articles having a characteristic nominally constant value from article to article, testing means responsive to the value of the said characteristic of an article for producing a first response function when said value exceeds a predetermined limit, and a second response function when said value falls below a predetermined limit, conveyor means for conveying articles in succession to said testing means and means for discharging said articles from said testing means after testing, a control unit for responding to successive response functions produced on successive testings, said control unit including an integrating device responding differentially to said first and second response functions, means controlled by said integrating device for producing an output when the number of the one exceeds the number of the other to a predetermined extent and means for decreasing with the passage of time the response of said integrating device.

2,664,558
INDICATING DEVICE
Henry Konet, Hohokus, N. J., and Paul E. Seifried, New City, N. Y., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application August 7, 1950, Serial No. 177,996
9 Claims. (Cl. 340—253)



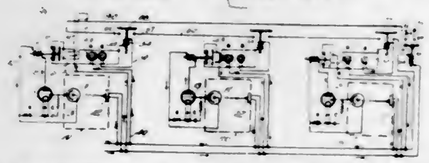
1. In a device of the kind described for indicating a fault in a polyphase electrical system, torque means connected in series with at least two of the phases of the system, and a single warning indicator movable by said torque means from one position to another when current flows normally in the system.

2,664,559

VISUALIZED RACE TRACK GATE CIRCUIT

Payson Sierer, Ozone Park, and Nelson J. Waterbury, New York, N. Y., assignors, by direct and mesne assignments, of thirty-five per cent to said Waterbury, twenty per cent to Peter Rotko, Jr., Yonkers, fifteen per cent to Hammond E. Fisher, New York, five per cent to Alfred R. Rich, New York, N. Y., five per cent to Gloria Hulin, Durham, N. C., five per cent to Ken Kling, New York, five per cent to Audrey Ritter, Richmond Hill, five per cent to Robert Winkler, Brooklyn, and five per cent to Gertrude Dorsey Campbell, New York, N. Y.

Application January 31, 1951, Serial No. 208,684
3 Claims. (Cl. 340—282)



1. A system for controlling the operation of visual signals and the operation of electrically controlled mechanism comprising a primary control circuit for said mechanism, a normally open primary relay in said primary control circuit, a manually operated switch in said primary control circuit, a secondary circuit for operating said primary relay, a plurality of stations, a normally open secondary relay for each station in said secondary circuit, a red and a green signal for each station, a double pole double throw relay for each station, one pair of contacts of said last named relay being normally closed and connected to said red signal for that station for illuminating the same, the second pair of contacts of said last named relay being normally open and connected to said green signal and said secondary relay for that station, a light source at each station, a photoelectric cell at each station disposed in the path of a light beam emanating from said light source, a vacuum tube control circuit connecting said photoelectric cell and said double pole double throw relay whereby upon interruption of said light beam by an object at one station the corresponding double pole double throw relay will be operated to open said one pair of contacts and close said second pair of contacts to extinguish said red signal and illuminate said green signal and operate the associated secondary relay to close that portion of said secondary circuit and upon interruption of the light beams at all of said stations by objects all of said red signals will be extinguished and said green signals illuminated and all of said secondary relays will operate to close said secondary circuit and operate said primary relay to close the same and condition said primary circuit for control of said mechanism by said manually operated switch and upon removal of said objects said system will automatically return to original condition with said primary circuit open, said green signals extinguished and said red signals illuminated.

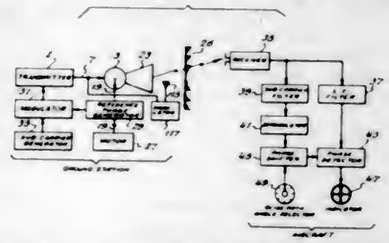
2,664,560

RADIO AID TO NAVIGATION

Joseph Lyman, Huntington, and George B. Litchford, Cold Spring Harbor, N. Y., assignors to The Sperry Corporation, a corporation of Delaware

Application December 1, 1949, Serial No. 130,446
13 Claims. (Cl. 343—6)

5. In a radio glide path system of the described type providing elevation angle information in terms of the phase difference between two signals produced on an aircraft, means for controlling the curvature of the glide path to be followed by said aircraft including radio distance measuring equipment for producing on said craft



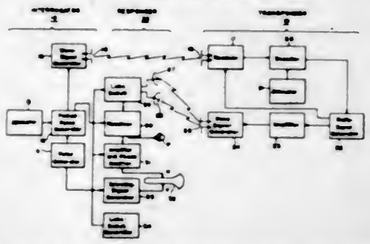
a signal representative of the distance thereof from a reference point, and phase shifter means responsive to said last mentioned signal to vary the phase of one of said first mentioned signals with respect to the other according to said desired curvature.

2,664,561

PULSE-CODE SELECTIVE COMMUNICATION SYSTEM

Knox McIlwain, New York, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Continuation of application Serial No. 617,020, September 18, 1945. This application June 13, 1950, Serial No. 167,814
12 Claims. (Cl. 343—6.5)



1. A system for communication between two spaced wave-signal stations at least one of which is carried by a mobile object comprising: a first altitude-responsive device at one of said stations for developing a first control effect representative of altitude; means at said one station responsive to said control effect for transmitting wave-signal energy modulated by signal energy of pulse wave form having at least two relatively variable edge portions designating by their relative amount of variation an individual one of a plurality of vertically positioned traffic zones available to mobile objects; means at the other of said stations for receiving said modulated wave-signal energy and for deriving in response thereto signal energy having two relatively variable edge portions related to those of said modulation signal energy; a second device at said other station for developing a second control effect representative of its altitude; and control means at said other station responsive to said second control effect for utilizing said derived signal energy only when said edge portions thereof have a relative amount of variation lying within a selectable range of values automatically established by said control means under control of said second altitude-representative device as designating a selectable one of said plurality of traffic zones.

DESIGNS

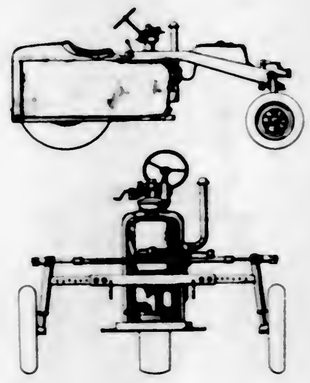
DECEMBER 29, 1953

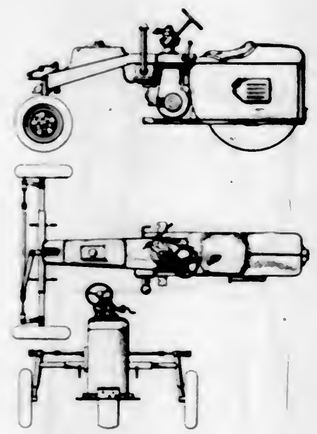
171,178

THREE-WHEELED TRACTOR

Byron T. Aasland and Merle W. Bloom, Kankakee, and William L. Zink, Piano, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York

Application May 21, 1953, Serial No. 25,161
Term of patent 14 years
(Cl. D14—3)





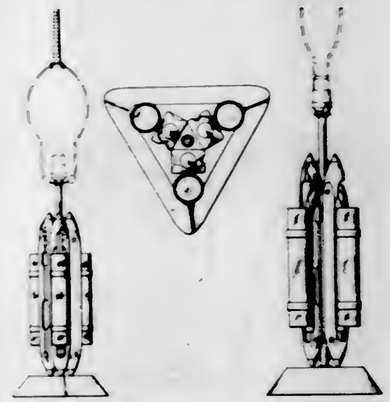
The ornamental design for a three-wheeled tractor, as shown.

171,179

LAMP BASE

Marion Axelrod, East Gloucester, Mass.

Application April 22, 1953, Serial No. 24,631
Term of patent 7 years
(Cl. D48—20)



The ornamental design for a lamp base, substantially as shown and described.

171,180

TABLE OR SIMILAR ARTICLE

William James Bargen, Waukegan, Ill.

Application April 10, 1953, Serial No. 24,430
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a table or similar article, as shown and described.

171,181
BOOK BOX DESK OR SIMILAR ARTICLE
William James Bargen, Waukegan, Ill.
Application April 10, 1953, Serial No. 24,431
Term of patent 14 years
(Cl. D33—11)

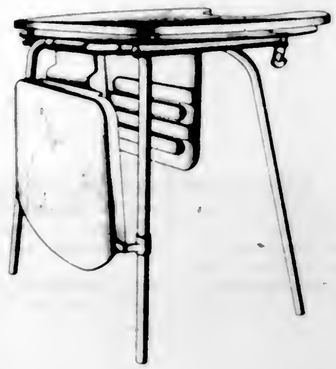


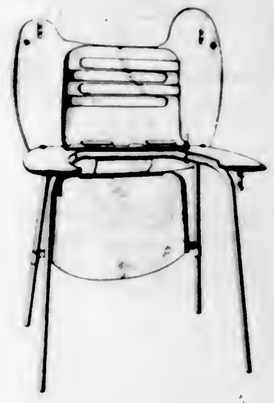
The ornamental design for a book box desk or similar article, as shown.

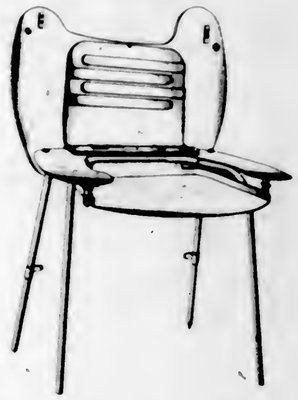
171,182
TYPEWRITER AND MULTIPURPOSE DESK
William James Bargen, Waukegan, Ill.
Application April 13, 1953, Serial No. 24,457
Term of patent 14 years
(Cl. D33—7)



171,182—Continued







The ornamental design for a typewriter and multipurpose desk, as shown.

171,183
PORTABLE ELECTRIC PUMP
Ralph L. Barmore, Wichita, Kans.
Application January 29, 1953, Serial No. 23,343
Term of patent 3½ years
(Cl. D65—1)



The ornamental design for a portable electric pump, as shown and described.

171,184
LADY'S STOCKING
William G. Bley, Richboro, Pa.
Application June 19, 1953, Serial No. 25,581
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown.

171,185
LADY'S STOCKING
William G. Bley, Richboro, Pa.
Application July 17, 1953, Serial No. 26,008
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown and described.

171,186
LADY'S STOCKING
William G. Bley, Richboro, Pa.
Application July 17, 1953, Serial No. 26,009
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown and described.

171,187
LADY'S STOCKING
William G. Bley, Richboro, Pa.
Application July 17, 1953, Serial No. 26,010
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown and described.

171,188
LADY'S STOCKING
William G. Bley, Richboro, Pa.
Application July 17, 1953, Serial No. 26,011
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown and described.

171,189
LADY'S STOCKING
William G. Bley, Richboro, Pa.
Application July 17, 1953, Serial No. 26,012
Term of patent 14 years
(Cl. D47—7)



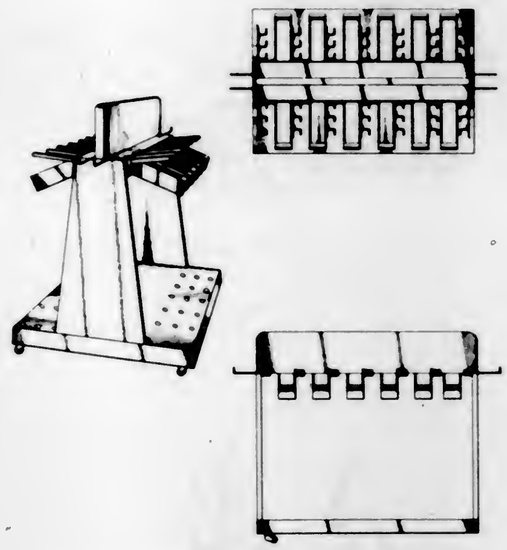
The ornamental design for a lady's stocking, as shown and described.

171,190
AUTOMOBILE WINDOW SILL PROTECTOR
Alfred R. Blumenthal, Chicago, Ill.
Application January 2, 1953, Serial No. 22,990
Term of patent 14 years
(Cl. D14—6)



The ornamental design for an automobile window sill protector, as shown and described.

171,191
TOOL DISPLAY RACK
Clifford A. Bowman, Michigan City, Ind., assignor to Gardex, Inc., Michigan City, Ind., a corporation of Indiana
Application December 23, 1952, Serial No. 22,843
Term of patent 14 years
(Cl. D80—9)



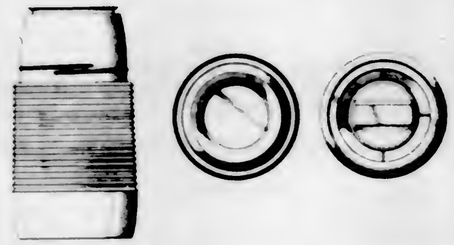
The ornamental design for a tool display rack, as shown.

171,192
COIN BANK
Frank W. Bower, Goshen, Ind.
Application June 5, 1953, Serial No. 25,354
Term of patent 14 years
(Cl. D34—11)



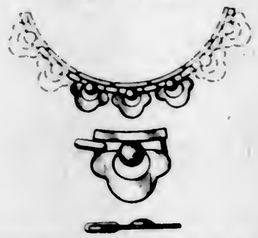
The ornamental design for a coin bank, as shown and described.

171,193
WIDE MOUTH VACUUM BOTTLE
Carl Bramming, Nashville, Tenn.
Application June 12, 1953, Serial No. 25,473
Term of patent 14 years
(Cl. D58—8)



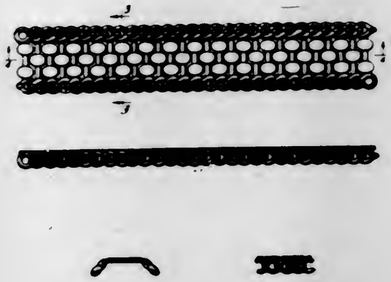
The ornamental design for a wide mouth vacuum bottle, as shown.

171,194
LINK CHAIN FOR A NECKLACE OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application July 12, 1952, Serial No. 20,740
Term of patent 7 years
(Cl. D45—16)



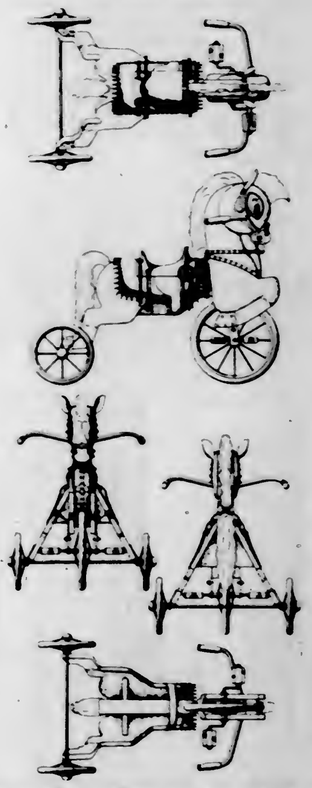
The ornamental design for a link chain for a necklace or similar article, substantially as shown and described.

171,195
LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application June 5, 1953, Serial No. 25,353
Term of patent 14 years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

171,196
TRICYCLE
Richard K. Dix, Fresno, Calif.
Application February 6, 1953, Serial No. 23,474
Term of patent 14 years
(Cl. D34—15)



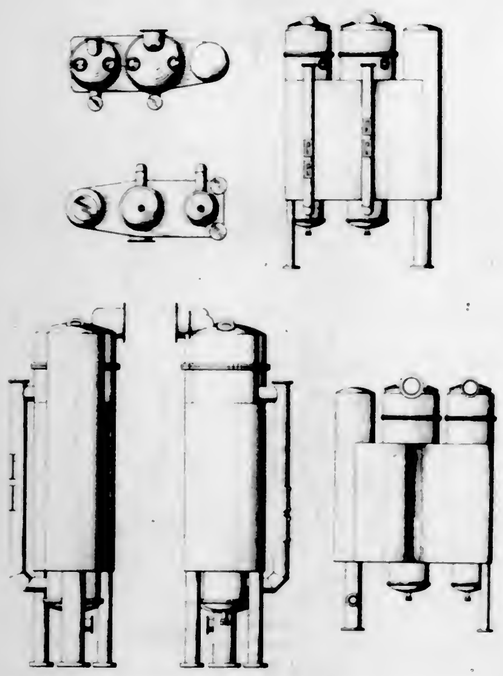
The ornamental design for a tricycle, as shown.

171,197
LETTER OPENER OR SIMILAR ARTICLE
Karl Domberger, Maspeth, and Sol Rael, Jackson Heights, N. Y.
Application June 10, 1953, Serial No. 25,429
Term of patent 3½ years
(Cl. D74—1)



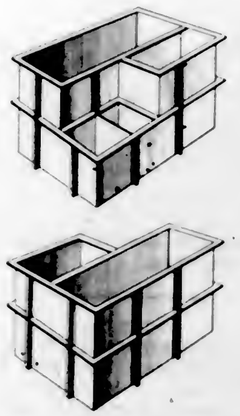
The ornamental design for a letter-opener or similar article, as shown and described.

171,198
MILK EVAPORATOR UNIT
Albert W. Eckstrom, Buffalo, N. Y., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware
Application December 22, 1952, Serial No. 22,819
Term of patent 14 years
(Cl. D16—2)



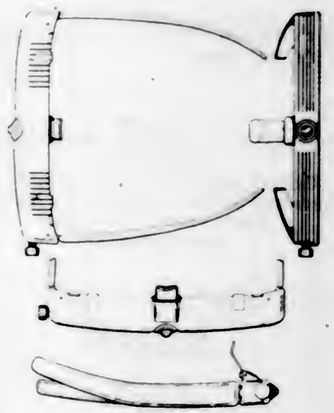
The ornamental design for a milk evaporator unit, substantially as shown.

171,199
HOUSING FOR ORGANIC WASTE TREATMENT APPARATUS
Myles W. Edwards, Reading, Pa., assignor to Wertz Engineering Co., Inc., Reading, Pa., a corporation of Pennsylvania
Application June 6, 1952, Serial No. 20,061
Term of patent 14 years
(Cl. D55—1)



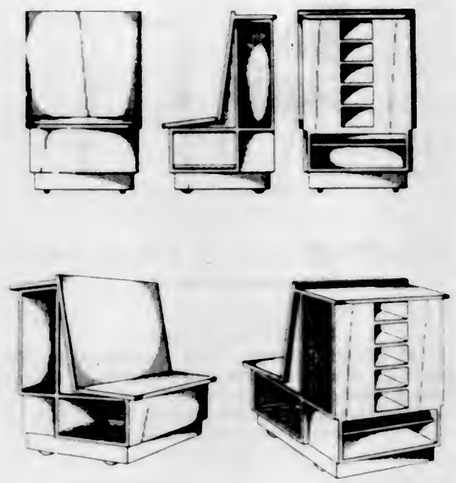
The ornamental design for a housing for organic waste treatment apparatus, as shown.

171,200
SPECTACLE TYPE FLASHLIGHT
Robert P. Evans, Westwood, Mass., assignor to Visual Research Incorporated, Boston, Mass., a corporation
Application February 5, 1953, Serial No. 23,459
Term of patent 14 years
(Cl. D48—24)



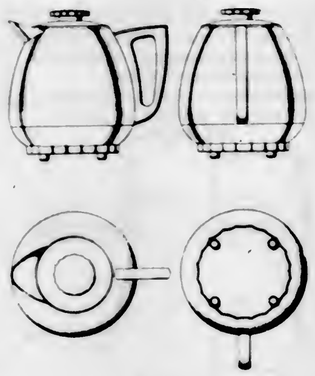
The ornamental design for a spectacle type flashlight, substantially as shown.

171,201
COMBINATION CABINET AND EASEL
Lester L. Fisher, Lansdale, Pa., assignor to American-Olean Tile Company, Lansdale, Pa., a corporation of Pennsylvania
Application June 8, 1953, Serial No. 25,373
Term of patent 14 years
(Cl. D33—19)



The ornamental design for a combination cabinet and easel, substantially as shown.

171,202
COFFEE MAKER
Maurice H. Graham, John N. Polivka, John K. Hamilton, and Ronald Gage Davis, Minneapolis, Minn., assignors to Jet-O-Mat, Inc., a corporation of Minnesota
Application July 21, 1953, Serial No. 26,067
Term of patent 14 years
(Cl. D44—26)



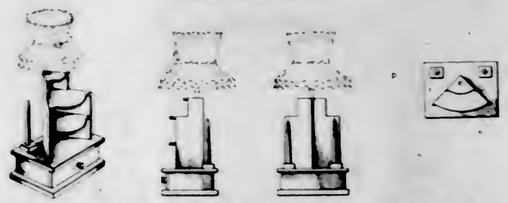
The ornamental design for a coffee maker, as shown.

171,203
TIRE
Earle W. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application June 19, 1952, Serial No. 20,268
Term of patent 14 years
(Cl. D90—20)



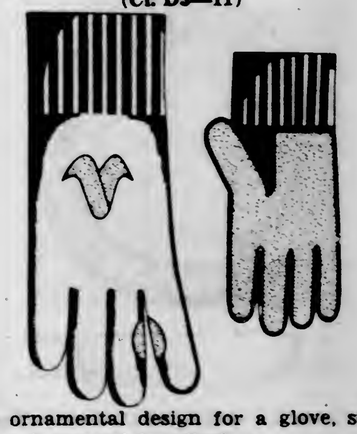
The ornamental design for a tire, as shown.

171,204
LAMP
Alva S. Hess, Hopkinsville, Ky.
Application June 25, 1953, Serial No. 25,655
Term of patent 7 years
(Cl. D48—20)



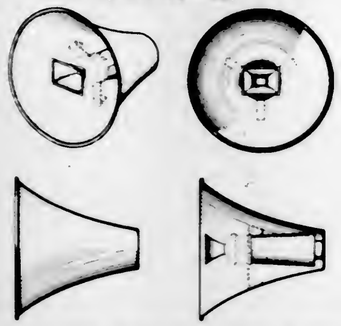
The ornamental design for a lamp, as shown and described.

171,205
GLOVE
Julius A. Higier, Johnstown, N. Y.
Application October 7, 1953, Serial No. 27,099
Term of patent 7 years
(Cl. D3—11)



The ornamental design for a glove, substantially as shown and described.

171,206
LOUD-SPEAKER HORN
Louis S. Hoodwin, Bridgman, Mich.
Application October 23, 1952, Serial No. 21,954
Term of patent 14 years
(Cl. D26—14)



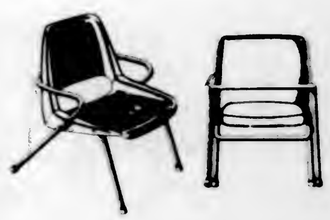
The ornamental design for a loud-speaker horn, as shown and described.

171,207
HAND WHEEL FOR CHUCKING TOOLS
Carl H. Ingwer, Elyria, Ohio, assignor to The Ridge Tool Company, Elyria, Ohio
Application July 8, 1953, Serial No. 25,844
Term of patent 14 years
(Cl. D54—2)



The ornamental design for a hand wheel for chucking tools as shown.

171,208
CHAIR
James E. Jones, Toledo, Ohio, assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1952, Serial No. 21,586
Term of patent 14 years
(Cl. D15—8)



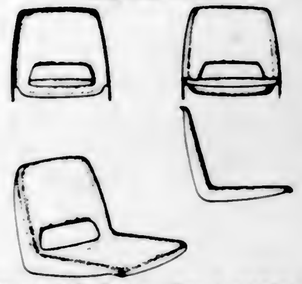
The ornamental design for a chair, as shown.

171,209
ROCKING CHAIR
James E. Jones, Toledo, Ohio, assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application May 5, 1953, Serial No. 24,860
Term of patent 14 years
(Cl. D15—6)



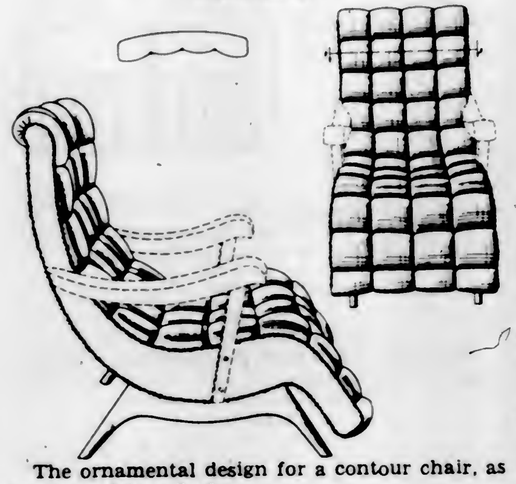
The ornamental design for a rocking chair, as shown.

171,210
CHAIR SEAT AND BACK ASSEMBLY
James E. Jones, Toledo, Ohio, assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application May 14, 1953, Serial No. 25,020
Term of patent 14 years
(Cl. D15—1)



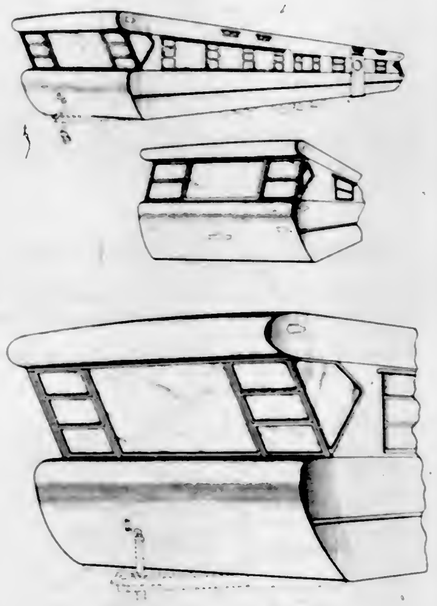
The ornamental design for a chair seat and back assembly, as shown.

171,211
CONTOUR CHAIR
Ferdinand J. Katulski, East Detroit, Mich.
Application March 18, 1953, Serial No. 24,088
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a contour chair, as shown and described.

171,212
HOUSE TRAILER
Solomon J. Kropf, Goshen, Ind.
Application July 28, 1953, Serial No. 26,169
Term of patent 14 years
(Cl. D14—3)



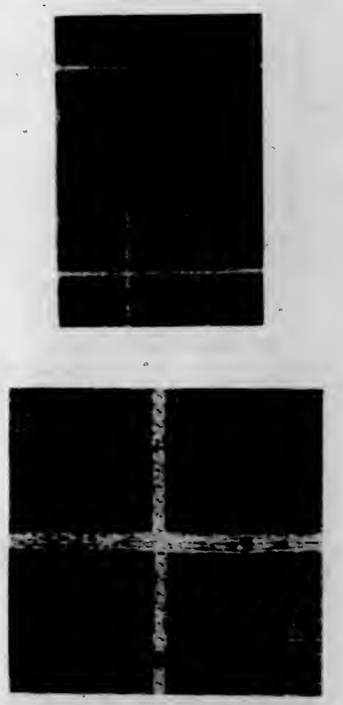
The ornamental design for a house trailer, as shown and described.

171,213
PANTY OR SIMILAR ARTICLE
Egon Kudelka, New York, N. Y.
Application July 7, 1953, Serial No. 25,827
Term of patent 7 years
(Cl. D3—17)



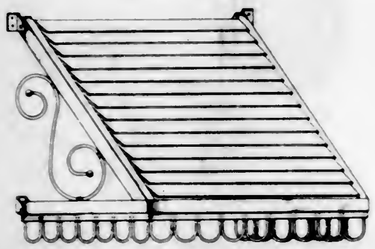
The ornamental design for a panty or similar article, substantially as shown.

171,214
TEXTILE FABRIC OR THE LIKE FOR GRILLS OF TELEVISION AND RADIO CABINETS
John A. MacIntyre, Barrington, R. I., assignor to B & M Mills, Inc., a corporation of Rhode Island
Application July 18, 1952, Serial No. 20,665
Term of patent 3½ years
(Cl. D92—1)



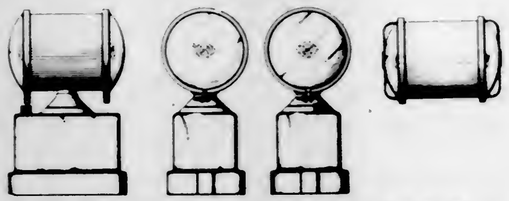
The ornamental design for a textile fabric or the like for grills of television and radio cabinets, substantially as shown.

171,215
COMBINED WINDOW AWNING AND VENTILATOR
Donald Macy, Pompton Lakes, N. J., assignor to Awnair Corporation of America, Passaic, N. J., a corporation of New Jersey
Application June 10, 1953, Serial No. 25,424
Term of patent 14 years
(Cl. D21—6)



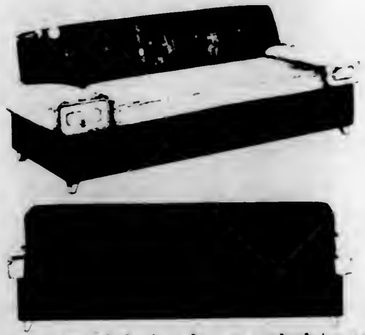
The ornamental design for a combined window awning and ventilator, substantially as shown and described.

171,216
WARNING LIGHT OR SIMILAR ARTICLE
Algy E. Martin, North Hollywood, and Mearl D. Lorimor, Van Nuys, Calif., assignors to Light Products, Inc., Beverly Hills, Calif., a corporation of California
Application June 1, 1953, Serial No. 25,274
Term of patent 14 years
(Cl. D72—1)



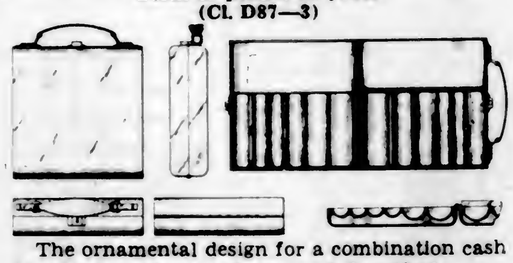
The ornamental design for a warning light or similar article, substantially as shown.

171,217
UPHOLSTERED SOFA
Robert A. Maurer, East Palestine, Ohio
Application July 3, 1953, Serial No. 25,799
Term of patent 14 years
(Cl. D15—11)



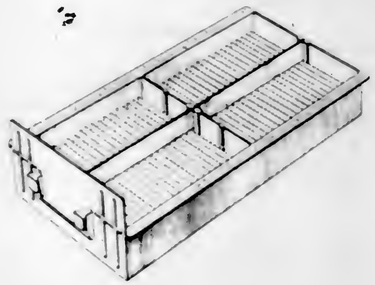
The ornamental design for an upholstered sofa, as shown.

171,218
COMBINATION CASH TRAY AND CARRIER
John McCaffrey, Oakland, Calif.
Application November 25, 1952, Serial No. 22,427
Term of patent 14 years
(Cl. D87—3)



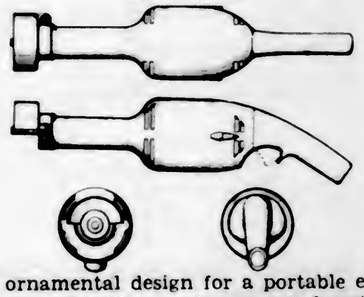
The ornamental design for a combination cash tray and carrier, as shown and described.

171,219
SLIDE FILING TRAY
Hiram Lawrence Mills, Prairie Village, Kans.
Application December 26, 1952, Serial No. 22,876
Term of patent 14 years
(Cl. D74—1)



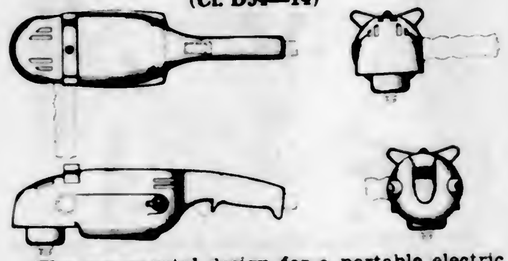
The ornamental design for a slide filing tray, substantially as shown and described.

171,220
PORTABLE ELECTRIC TOOL UNIT OR THE LIKE
Walter Albert Nystrom, Arlington Heights, Ill., assignor to Skil Corporation, Chicago, Ill., a corporation of Delaware
Application June 3, 1953, Serial No. 25,304
Term of patent 14 years
(Cl. D54—14)



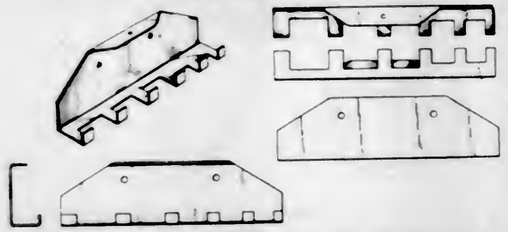
The ornamental design for a portable electric tool unit or the like, as shown and described.

171,221
PORTABLE ELECTRIC TOOL UNIT OR THE LIKE
Walter Albert Nystrom, Arlington Heights, Ill., assignor to Skil Corporation, Chicago, Ill., a corporation of Delaware
Application June 3, 1953, Serial No. 25,305
Term of patent 14 years
(Cl. D54—14)



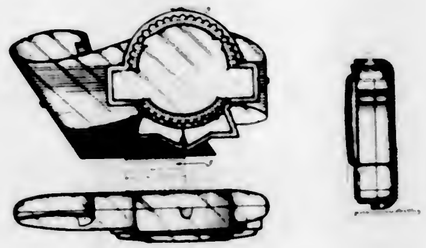
The ornamental design for a portable electric tool unit or the like, as shown and described.

171,222
TOOL SUPPORT
William H. Odlum, Wilmette, and Karl A. Paine, Jr., Park Ridge, Ill., assignors to Duro Metal Products Company, Chicago, Ill., a corporation of Illinois
Application July 11, 1952, Serial No. 20,560
Term of patent 14 years
(Cl. D54—2)



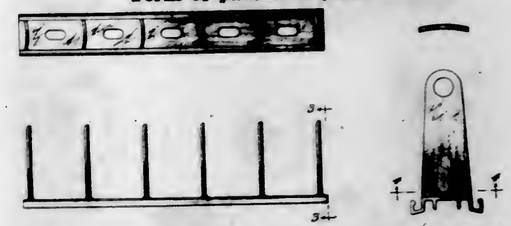
The ornamental design for a tool support, substantially as shown.

171,223
ADVERTISING SIGN
Lewis E. Peters, Beverly Shores, Ind., assignor to Raymond M. Price & Associates, Inc., Chesterton, Ind., a corporation of Indiana
Application April 15, 1953, Serial No. 24,509
Term of patent 3½ years
(Cl. D1—12)



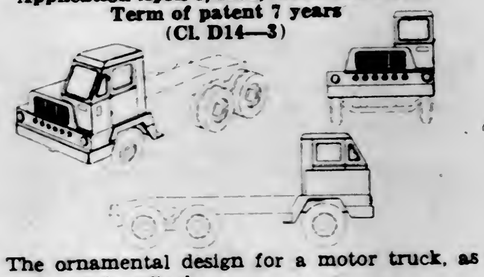
The ornamental design for an advertising sign, as shown and described.

171,224
ELECTRIC WIRE SUSPENSION RACK
Henry C. Pfaff, Jr., Summit, N. J.
Application September 4, 1952, Serial No. 21,298
Term of patent 14 years



The ornamental design for an electric wire suspension rack, as shown.

171,225
MOTOR TRUCK
Evan S. Prichard, La Canada, Calif., assignor to Cook Bros. Equipment Co., Los Angeles, Calif., a corporation of California
Application April 6, 1953, Serial No. 24,358
Term of patent 7 years
(Cl. D14—3)



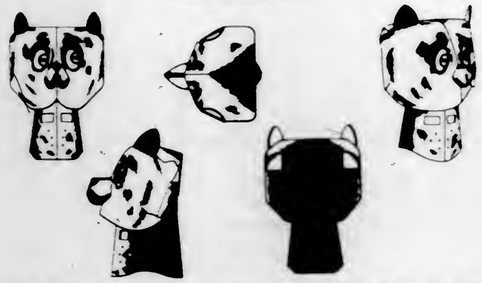
The ornamental design for a motor truck, as shown and described.

171,226
STOCKING
Isidor Rabinowitz, Philadelphia, Pa.
Application April 28, 1953, Serial No. 24,721
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown and described.

171,227
MASK FOR DISGUISE OR THE LIKE
Richard M. Ray, Oak Park, Ill., assignor to Old Ben Publishing Company, Inc., Chicago, Ill., a corporation of Illinois
Application July 9, 1953, Serial No. 25,856
Term of patent 7 years
(Cl. D34—2)



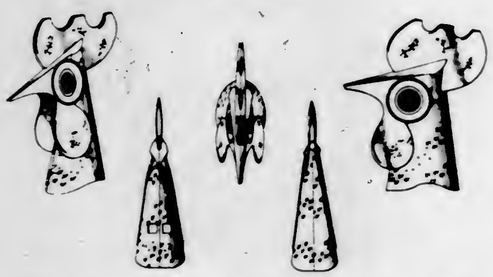
The ornamental design for a mask for disguise or the like, substantially as shown.

171,228
MASK FOR DISGUISE OR THE LIKE
Richard M. Ray, Oak Park, Ill., assignor to Old Ben Publishing Company, Inc., Chicago, Ill., a corporation of Illinois
Application July 9, 1953, Serial No. 25,857
Term of patent 7 years
(Cl. D34—2)



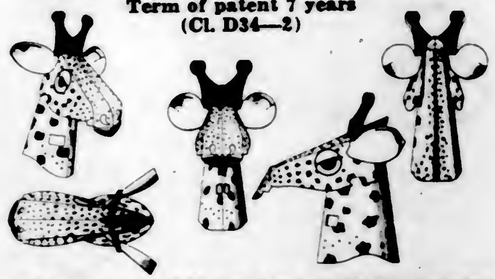
The ornamental design for a mask for disguise or the like, substantially as shown.

171,229
MASK FOR DISGUISE OR THE LIKE
Richard M. Ray, Oak Park, Ill., assignor to Old Ben Publishing Company, Inc., Chicago, Ill., a corporation of Illinois
Application July 9, 1953, Serial No. 25,858
Term of patent 7 years
(Cl. D34—2)



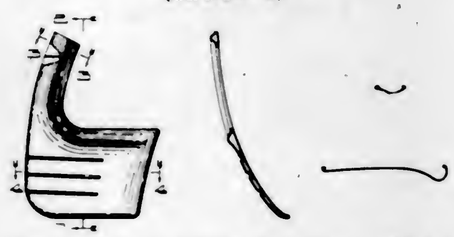
The ornamental design for a mask for disguise or the like, substantially as shown.

171,230
MASK FOR DISGUISE OR THE LIKE
Richard M. Ray, Oak Park, Ill., assignor to Old Ben Publishing Company, Inc., Chicago, Ill., a corporation of Illinois
Application July 9, 1953, Serial No. 25,859
Term of patent 7 years
(Cl. D34—2)



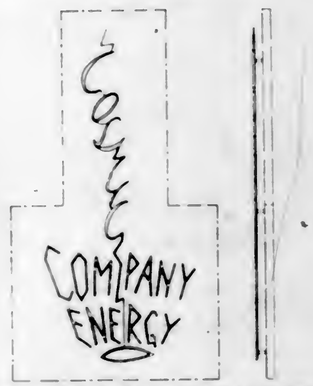
The ornamental design for a mask for disguise or the like, substantially as shown.

171,231
AUTOMOBILE STONE SHIELD
Frederick Reynolds, Bloomfield Hills, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 12, 1953, Serial No. 24,975
Term of patent 7 years
(Cl. D14—6)



The ornamental design for an automobile stone shield, substantially as shown.

171,232
NEON TUBE ADVERTISING SIGN
Carl G. A. Rosen, Peoria County, Ill.
Application January 3, 1952, Serial No. 17,908
Term of patent 14 years
(Cl. D1—12)



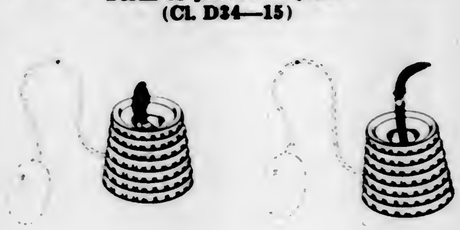
The ornamental design for a neon tube advertising sign, as shown.

171,233
NECKLACE OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a corporation of New York
Application December 16, 1952, Serial No. 22,723
Term of patent 3½ years
(Cl. D45—16)



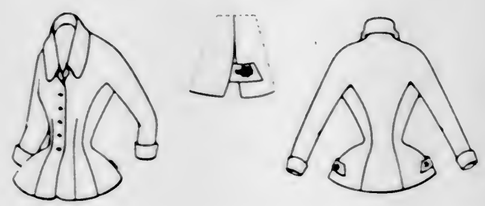
The ornamental design for a necklace or similar article, as shown.

171,234
POP-UP FIGURE TOY
Makoto Sugita, Itchikawa City, Japan, assignor to Ross Products, New York, N. Y.
Application October 1, 1953, Serial No. 27,039
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a pop-up figure toy, as shown and described.

171,235
JACKET
Marie Tait, Bloomingdale, N. J.
Application July 7, 1953, Serial No. 25,831
Term of patent 3½ years
(Cl. D3—4)



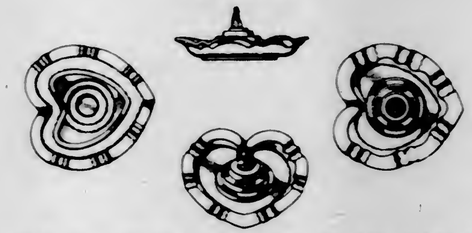
The ornamental design for a jacket, substantially as shown.

171,236
DRESS
Marie Tait, Bloomingdale, N. J.
Application July 7, 1953, Serial No. 25,832
Term of patent 3½ years
(Cl. D3—26)



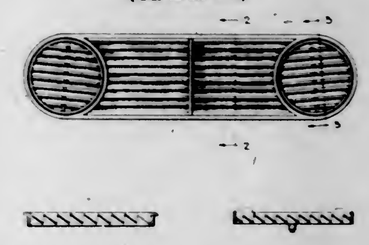
The ornamental design for a dress, substantially as shown.

171,237
ASH TRAY
David Tomlinson, Los Angeles, Calif., assignor to Harold M. Blumeno, Santa Monica, and Mitchell L. Reskin, Culver City, Calif.
Application June 12, 1953, Serial No. 25,465
Term of patent 14 years
(Cl. D85—2)



The ornamental design for an ash tray, as shown.

171,238
INSERT GRILLE FOR AN AIR CONDITIONER PANEL
August G. Trometer, Sturgis, Mich., assignor to Gibson Refrigerator Company, Greenville, Mich., a corporation of Michigan
Application July 5, 1952, Serial No. 20,488
Term of patent 7 years
(Cl. D62—4)



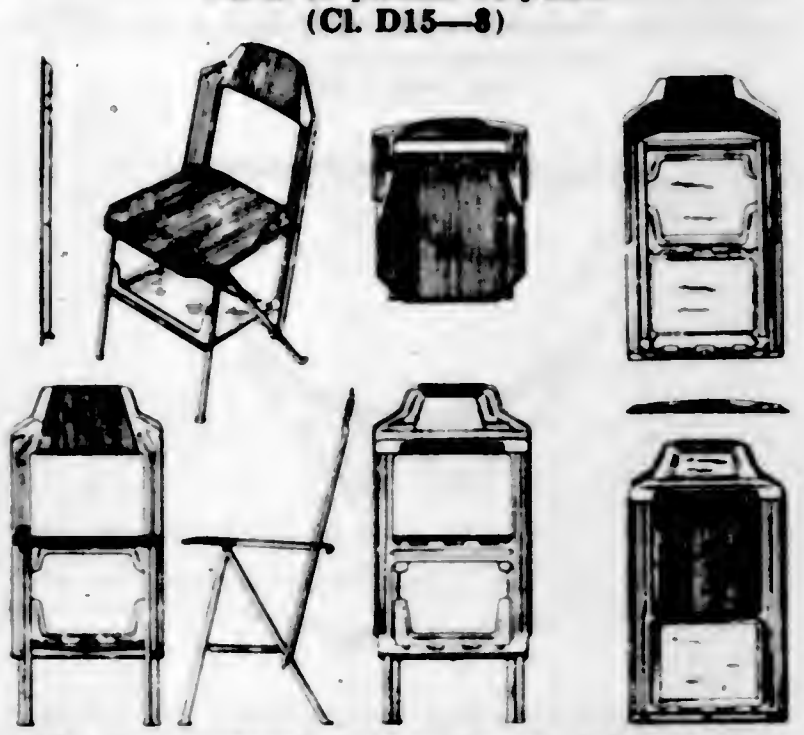
The ornamental design for an insert grille for an air conditioner panel, as shown.

171,239
FLY SWATTER BLADE
Elno H. Trump, Cuyahoga Falls, Ohio, assignor, by mesne assignments, to Hyke Rubber Company, Willoughby, Ohio, a corporation of Ohio
Application January 15, 1953, Serial No. 23,144
Term of patent 14 years
(Cl. D31—3)



The ornamental design for a fly swatter blade, substantially as shown.

171,240
FOLDING CHAIR
John M. Wiegel, Oakland, Calif.
Application May 26, 1953, Serial No. 25,194
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a folding chair, substantially as shown.

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